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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2370783

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Table of Contents

New York ASP Category B Data Deliverable Package 1
- Table of Contents 2
- Sample ID Cross Reference 17
- SDG Narrative 18
- Data Qualifier Definitions 21
- Instrument Information 24
- Sample Log-in Sheet 27
- Lims COC (LN01) 29
- External Chain of Custody 34
- Organics Analysis 37
  - GCMS 8260 Analysis 38
    - Volatiles QC Summary 39
      - Form 2 - Organics 40
      - Form 3 - Organics 41
      - Form 4 - Organics 48
      - Form 5 - Organics 50
      - Form 8 - Organics 53
      - MDL Study - Volatile Organics 8260 55
      - 8260 55
      - 8260HLW 57
    - Volatiles Sample Data 59
      - Form 1 - Organics 60
      - MW-1S (L2370783-01) Analyzed: 12/06/23 11:22 99
      - MW-2S (L2370783-02) Analyzed: 12/06/23 11:47 109
      - MW-3S (L2370783-03) Analyzed: 12/06/23 13:01 114
      - MW-4D (L2370783-04) Analyzed: 12/06/23 13:25 121
      - MW-5S (L2370783-05) Analyzed: 12/06/23 13:50 130
      - MW-6D (L2370783-06) Analyzed: 12/06/23 14:14 137
      - MW-7S (L2370783-07) Analyzed: 12/06/23 14:39 145
      - MW-8S (L2370783-08) Analyzed: 12/06/23 15:03 152
      - DUP (L2370783-09) Analyzed: 12/06/23 15:28 159
      - EB (L2370783-11) Analyzed: 12/06/23 15:53 166
      - TRIP BLANK (L2370783-12) Analyzed: 12/07/23 08:33 176
    - Volatile Standards Data 183
      - Initial Calibration 184
        - Form 6 - Organics 185
        - ICAL for ELAINE on 11/28/23 ICAL20595 188
        - Initial Calibration Summary - Cal Date: 11/28/23 00:00 188
        - BFB TUNE Injected on: 11/27/23 21:25 192
        - STD0.19PPB Injected on: 11/27/23 22:33 193
        - STD0.5PPB Injected on: 11/27/23 23:22 196
        - STD2PPB Injected on: 11/28/23 00:10 210
        - STD10PPB Injected on: 11/28/23 01:00 216
        - STD30PPB Injected on: 11/28/23 01:24 222
        - STD80PPB Injected on: 11/28/23 01:49 228
        - STD120PPB Injected on: 11/28/23 02:13 235
        - STD200PPB Injected on: 11/28/23 02:38 241
        - ICV Summary Form Injected on: 11/28/23 04:40 247
        - ICV Quant Report Injected on: 11/28/23 04:40 250
      - Continuing Calibration 256

Table of Contents

Form 7 - Organics 257
CC Summary - ELAINE Run: 12/06/23 09:45 262
CC Quant - WG1860843-2 ELAINE Run: 12/06/23 09:45 264
CC Summary - ELAINE Run: 12/07/23 06:31 269
CC Quant - WG1861020-2 ELAINE Run: 12/07/23 06:31 272
bfb tune - Inst. ELAINE 12/06/23 09:07 277
bfb tune - Inst. ELAINE 12/07/23 06:13 278
Volatiles Raw QC Data 279
Laboratory Method Bl (WG1860843-5) Analyzed: 12/06/23 10:58 280
Laboratory Method Bl (WG1861020-5) Analyzed: 12/07/23 08:09 290
Laboratory Control S (WG1861020-3) Analyzed: 12/07/23 06:31 298
Laboratory Control S (WG1860843-3) Analyzed: 12/06/23 09:45 354
LCS Duplicate (WG1861020-4) Analyzed: 12/07/23 06:55 410
LCS Duplicate (WG1860843-4) Analyzed: 12/06/23 10:09 465
Matrix Spike (WG1860843-6) Analyzed: 12/06/23 19:08 521
Matrix Spike Duplica (WG1860843-7) Analyzed: 12/06/23 19:33 577
Volatiles Calculations 633
QC Batch WG1860843 634
QC Batch WG1861020 635
ICAL Sequence for ELAINE on 28-NOV-2023 00:00 ICAL20595 636
Instrument ELAINE Run Date 12/06/23 Run ID R1772009 637
Instrument ELAINE Run Date 12/07/23 Run ID R1772172 638
Semivolatiles Data - Method 8270 639
Semivolatiles QC Summary 640
Form 3 - Organics 641
Form 2 - Organics 646
Form 4 - Organics 647
Form 5 - Organics 648
Form 8 - Organics 656
MDL Study - ABN Extractables 662
Semivolatiles Sample Data 666
Form 1 - Organics 667
MW-1S (L2370783-01) Analyzed: 12/05/23 01:49 700
MW-2S (L2370783-02) Analyzed: 12/05/23 02:13 705
MW-3S (L2370783-03) Analyzed: 12/05/23 02:37 710
MW-4D (L2370783-04) Analyzed: 12/05/23 03:48 715
MW-5S (L2370783-05) Analyzed: 12/05/23 04:12 720
MW-6D (L2370783-06) Analyzed: 12/05/23 04:36 725
MW-7S (L2370783-07) Analyzed: 12/05/23 05:00 730
MW-8S (L2370783-08) Analyzed: 12/05/23 05:24 735
DUP (L2370783-09) Analyzed: 12/05/23 05:47 740
EB (L2370783-11) Analyzed: 12/05/23 06:11 745
Semivolatiles Standards Data 750
Initial Calibration 751
Form 6 - Organics 752
ICAL for SV106 on 09/05/23 ICAL20337 760
Initial Calibration Summary - Cal Date: 09/05/23 00:00 760
DFTPP 1 Injected on: 09/02/23 11:50 763
DEG 1 Injected on: 09/02/23 11:50 764
Tailing Factor 1B Injected on: 09/02/23 11:50 765

Table of Contents

Tailing Factor 1P Injected on: 09/02/23 11:50 766
ABNL10 Injected on: 09/02/23 12:13 767
ABNL9 Injected on: 09/02/23 12:37 773
ABNL8 Injected on: 09/02/23 13:01 778
ABNL7 Injected on: 09/02/23 13:24 783
ABNL6 Injected on: 09/02/23 13:48 788
ABNL5 Injected on: 09/02/23 14:12 794
ABNL4 Injected on: 09/02/23 14:36 799
ABNL3 Injected on: 09/02/23 14:59 804
ABNL2 Injected on: 09/02/23 15:23 810
ABNL1 Injected on: 09/02/23 15:47 818
AP9L10 Injected on: 09/02/23 16:10 830
AP9L9 Injected on: 09/02/23 16:34 833
AP9L8 Injected on: 09/02/23 16:58 836
AP9L7 Injected on: 09/02/23 17:21 839
AP9L6 Injected on: 09/02/23 17:45 842
AP9L5 Injected on: 09/02/23 18:09 845
AP9L4 Injected on: 09/02/23 18:32 848
AP9L3 Injected on: 09/02/23 18:56 851
AP9L2 Injected on: 09/02/23 19:20 854
AP9L1 Injected on: 09/02/23 19:43 857
ABN ICV Summary Form Injected on: 09/02/23 20:07 860
ABN ICV Quant Report Injected on: 09/02/23 20:07 863
AP9 ICV Summary Form Injected on: 09/02/23 20:31 945
AP9 ICV Quant Report Injected on: 09/02/23 20:31 946
Tune 2 Injected on: 09/02/23 20:54 963
Deg 2 Injected on: 09/02/23 20:54 964
Tailing Factor 2B Injected on: 09/02/23 20:54 965
Tailing Factor 2P Injected on: 09/02/23 20:54 966
ADPL10 Injected on: 09/02/23 21:18 967
ADPL9 Injected on: 09/02/23 21:42 970
ADPL8 Injected on: 09/02/23 22:05 973
ADPL7 Injected on: 09/02/23 22:29 976
ADPL6 Injected on: 09/02/23 22:53 979
ADPL5 Injected on: 09/02/23 23:17 982
ADPL4 Injected on: 09/02/23 23:40 985
ADPL3 Injected on: 09/03/23 00:04 988
ADPL2 Injected on: 09/03/23 00:28 991
ADPL1 Injected on: 09/03/23 00:52 994
ADP ICV Summary Form Injected on: 09/03/23 01:15 997
ADP ICV Quant Report Injected on: 09/03/23 01:15 998
Relative Error Form 1006
ICAL for SV107 on 10/28/23 ICAL20485 1007
Initial Calibration Summary - Cal Date: 10/28/23 00:00 1007
Tune Injected on: 10/25/23 23:57 1010
Deg Injected on: 10/25/23 23:57 1011
Tailing Factor Injected on: 10/25/23 23:57 1012
ABNL10 Injected on: 10/26/23 00:22 1014
ABNL9 Injected on: 10/26/23 00:48 1020
ABNL7 Injected on: 10/26/23 01:39 1025

Table of Contents

ABNL6 Injected on: 10/26/23 02:04 1030
ABNL5 Injected on: 10/26/23 02:30 1035
ABNL4 Injected on: 10/26/23 02:56 1040
ABNL3 Injected on: 10/26/23 03:21 1045
ABNL2 Injected on: 10/26/23 03:47 1050
ABNL1 Injected on: 10/26/23 04:13 1055
AP9L10 Injected on: 10/26/23 04:39 1068
AP9L9 Injected on: 10/26/23 05:04 1071
AP9L8 Injected on: 10/26/23 05:30 1074
AP9L7 Injected on: 10/26/23 05:56 1077
AP9L6 Injected on: 10/26/23 06:21 1080
AP9L5 Injected on: 10/26/23 06:47 1083
AP9L4 Injected on: 10/26/23 07:13 1086
AP9L3 Injected on: 10/26/23 07:39 1089
AP9L2 Injected on: 10/26/23 08:04 1092
AP9L1 Injected on: 10/26/23 08:30 1095
AP9 ICV Summary Form Injected on: 10/26/23 09:21 1099
AP9 ICV Quant Report Injected on: 10/26/23 09:21 1100
Tune Injected on: 10/26/23 09:47 1117
Deg Injected on: 10/26/23 09:47 1118
Tailing Factor Injected on: 10/26/23 09:47 1119
ADPL10 Injected on: 10/26/23 10:13 1121
ADPL9 Injected on: 10/26/23 10:38 1124
ADPL8 Injected on: 10/26/23 11:04 1127
ADPL7 Injected on: 10/26/23 11:29 1130
ADPL6 Injected on: 10/26/23 11:55 1133
ADPL5 Injected on: 10/26/23 12:21 1136
ADPL4 Injected on: 10/26/23 12:46 1139
ADPL3 Injected on: 10/26/23 13:12 1142
ADPL2 Injected on: 10/26/23 13:38 1145
ADPL1 Injected on: 10/26/23 14:03 1148
ADP ICV Summary Form Injected on: 10/26/23 14:29 1151
ADP ICV Quant Report Injected on: 10/26/23 14:29 1152
Tune Injected on: 10/27/23 13:20 1160
Deg Injected on: 10/27/23 13:20 1161
Tailing Factor Injected on: 10/27/23 13:20 1162
ABNL8a Injected on: 10/27/23 13:53 1164
ABN ICV Summary Form Injected on: 10/27/23 14:19 1169
ABN ICV Quant Report Injected on: 10/27/23 14:19 1172
Relative Error 1254
Continuing Calibration 1255
Form 7 - Organics 1256
CC Summary - SV107 Run: 12/04/23 21:57 1271
CC Quant - WG1859679-3 SV107 Run: 12/04/23 21:57 1274
CC Summary - SV107 Run: 12/04/23 22:24 1356
CC Quant - WG1859679-4 SV107 Run: 12/04/23 22:24 1357
CC Summary - SV107 Run: 12/04/23 22:51 1374
CC Quant - WG1859679-5 SV107 Run: 12/04/23 22:51 1375
DEG Quant for SV107 injected on 12/04/23 21:30 1383
dftpp tune - Inst. SV107 12/04/23 21:30 1384

Table of Contents

Tailing factor report for SV107 injected on 12/04/23 21:30 1385
Form 7 - Organics 1387
CC Summary - SV106 Run: 12/04/23 23:25 1402
CC Quant - WG1859682-3 SV106 Run: 12/04/23 23:25 1405
CC Summary - SV106 Run: 12/04/23 23:49 1491
CC Quant - WG1859682-4 SV106 Run: 12/04/23 23:49 1492
CC Summary - SV106 Run: 12/05/23 00:13 1509
CC Quant - WG1859682-5 SV106 Run: 12/05/23 00:13 1510
DEG Quant for SV106 injected on 12/04/23 23:01 1518
dftpp tune - Inst. SV106 12/04/23 23:01 1519
Tailing factor report for SV106 injected on 12/04/23 23:01 1520
Form 7 - Organics 1522
CC Summary - SV107 Run: 12/06/23 07:03 1537
CC Quant - WG1860349-3 SV107 Run: 12/06/23 07:03 1540
CC Summary - SV107 Run: 12/06/23 07:29 1622
CC Quant - WG1860349-4 SV107 Run: 12/06/23 07:29 1623
CC Summary - SV107 Run: 12/06/23 07:55 1640
CC Quant - WG1860349-5 SV107 Run: 12/06/23 07:55 1641
DEG Quant for SV107 injected on 12/06/23 06:38 1649
dftpp tune - Inst. SV107 12/06/23 06:38 1650
Tailing factor report for SV107 injected on 12/06/23 06:38 1651
Semivolatiles Raw QC Summary 1653
Laboratory Method Bl (WG1859049-1) Analyzed: 12/04/23 23:19 1654
Laboratory Control S (WG1859049-2) Analyzed: 12/06/23 17:30 1659
LCS Duplicate (WG1859049-3) Analyzed: 12/06/23 17:56 1708
Matrix Spike (WG1859049-4) Analyzed: 12/05/23 03:01 1757
Matrix Spike Duplica (WG1859049-5) Analyzed: 12/05/23 03:24 1807
Semivolatiles Calculations 1857
QC Batch WG1859049 1858
ICAL Sequence for SV106 on 05-SEP-2023 00:00 ICAL20337 1859
ICAL Sequence for SV107 on 28-OCT-2023 00:00 ICAL20485 1860
Instrument SV107 Run Date 12/04/23 Run ID R1771000 1861
Instrument SV106 Run Date 12/04/23 Run ID R1770999 1862
Instrument SV107 Run Date 12/06/23 Run ID R1771558 1863
Organic ELN-Workgroup:WG1859049 1864
Semivolatiles Data - Method 8270D-SIM 1867
Semivolatiles QC Summary 1868
Form 2 - Organics 1869
Form 3 - Organics 1870
Form 4 - Organics 1872
Form 5 - Organics 1873
Form 8 - Organics 1879
MDL Study - 8270 Low Level PAH 1885
Semivolatiles Sample Data 1887
Form 1 - Organics 1888
MW-1S (L2370783-01) Analyzed: 12/07/23 19:05 1899
MW-2S (L2370783-02) Analyzed: 12/07/23 19:21 1914
MW-3S (L2370783-03) Analyzed: 12/07/23 19:37 1925
MW-4D (L2370783-04) Analyzed: 12/07/23 19:53 1943
MW-5S (L2370783-05) Analyzed: 12/07/23 20:41 1950

Table of Contents

MW-6D (L2370783-06) Analyzed: 12/07/23 20:57 1957
MW-7S (L2370783-07) Analyzed: 12/07/23 21:13 1962
MW-8S (L2370783-08) Analyzed: 12/07/23 21:29 1968
DUP (L2370783-09) Analyzed: 12/07/23 21:45 1972
EB (L2370783-11) Analyzed: 12/07/23 22:00 1981
Semivolatiles Standards Data 1990
Initial Calibration 1991
Form 6 - Organics 1992
ICAL for SV128 on 09/05/23 ICAL20340 1996
Initial Calibration Summary - Cal Date: 09/05/23 00:00 1996
Injected on: 08/31/23 09:28 1997
Degradation Injected on: 08/31/23 09:28 1998
Tailing Factor Injected on: 08/31/23 09:28 1999
IL10 Injected on: 08/31/23 09:45 2001
IL9 Injected on: 08/31/23 10:01 2010
IL8 Injected on: 08/31/23 10:17 2019
IL7 Injected on: 08/31/23 10:34 2026
IL6 Injected on: 08/31/23 10:50 2049
IL5 Injected on: 08/31/23 11:06 2060
IL4 Injected on: 08/31/23 11:23 2078
IL2 Injected on: 08/31/23 11:56 2096
IL1 Injected on: 08/31/23 12:12 2124
Injected on: 09/05/23 08:49 2149
Degradation Injected on: 09/05/23 08:49 2150
Tailing Factor Injected on: 09/05/23 08:49 2151
IL3a Injected on: 09/05/23 09:24 2153
ICV Quant Report Injected on: 09/05/23 11:08 2172
Relative Error Summary 2215
ICAL for SV125 on 10/27/23 ICAL20477 2216
Initial Calibration Summary - Cal Date: 10/27/23 00:00 2216
Injected on: 10/26/23 10:06 2217
Degradation Injected on: 10/26/23 10:06 2218
Tailing Factor Injected on: 10/26/23 10:06 2219
IL10 Injected on: 10/26/23 13:22 2221
IL9 Injected on: 10/26/23 13:38 2225
IL8 Injected on: 10/26/23 13:55 2229
IL7 Injected on: 10/26/23 14:11 2233
IL6 Injected on: 10/26/23 14:27 2243
IL5 Injected on: 10/26/23 14:43 2249
IL4 Injected on: 10/26/23 14:59 2256
IL3 Injected on: 10/26/23 15:15 2263
IL2 Injected on: 10/26/23 15:31 2275
IL1 Injected on: 10/26/23 15:47 2293
ICV Summary Form Injected on: 10/26/23 16:04 2315
ICV Quant Report Injected on: 10/26/23 16:04 2317
Relative Error Summary 2353
Continuing Calibration 2354
Form 7 - Organics 2355
CC Summary - SV128 Run: 12/04/23 09:57 2358
CC Quant - WG1859432-3 SV128 Run: 12/04/23 09:57 2360

Table of Contents

DEG Quant for SV128 injected on 12/04/23 09:34 2400
dftpp tune - Inst. SV128 12/04/23 09:34 2401
Tailing factor report for SV128 injected on 12/04/23 09:34 2402
Form 7 - Organics 2404
CC Summary - SV125 Run: 12/06/23 07:20 2407
CC Quant - WG1860343-3 SV125 Run: 12/06/23 07:20 2409
DEG Quant for SV125 injected on 12/06/23 06:58 2443
dftpp tune - Inst. SV125 12/06/23 06:58 2444
Tailing factor report for SV125 injected on 12/06/23 06:58 2445
Form 7 - Organics 2447
CC Summary - SV125 Run: 12/07/23 11:43 2450
CC Quant - WG1861049-3 SV125 Run: 12/07/23 11:43 2452
DEG Quant for SV125 injected on 12/07/23 11:27 2487
dftpp tune - Inst. SV125 12/07/23 11:27 2488
Tailing factor report for SV125 injected on 12/07/23 11:27 2489
Semivolatiles Raw QC Summary 2491
Laboratory Method Bl (WG1859056-1) Analyzed: 12/04/23 19:49 2492
Laboratory Control S (WG1859056-2) Analyzed: 12/06/23 13:11 2529
LCS Duplicate (WG1859056-3) Analyzed: 12/06/23 13:27 2555
Matrix Spike (WG1859056-4) Analyzed: 12/07/23 20:09 2581
Matrix Spike Duplica (WG1859056-5) Analyzed: 12/07/23 20:25 2607
Semivolatiles Calculations 2633
QC Batch WG1859056 2634
ICAL Sequence for SV128 on 05-SEP-2023 00:00 ICAL20340 2635
ICAL Sequence for SV125 on 27-OCT-2023 00:00 ICAL20477 2636
Instrument SV128 Run Date 12/04/23 Run ID R1770793 2637
Instrument SV125 Run Date 12/06/23 Run ID R1771622 2639
Instrument SV125 Run Date 12/07/23 Run ID R1772261 2641
DaySequence 2641
Organic ELN-Workgroup:WG1859056 2643
GC PCB Analysis 2646
Aroclor QC Summary 2647
Form 2 - Organics 2648
Form 3 - Organics 2649
Form 4 - Organics 2652
Form 8 - Organics 2654
MDL Study - PCBs 2655
Aroclor Sample Data 2657
Form 1 - Organics 2658
MW-1S (L2370783-01) Analyzed: 12/06/23 12:35 2671
MW-2S (L2370783-02) Analyzed: 12/06/23 12:45 2678
MW-3S (L2370783-03) Analyzed: 12/06/23 12:54 2691
MW-4D (L2370783-04) Analyzed: 12/06/23 13:03 2697
MW-5S (L2370783-05) Analyzed: 12/06/23 13:32 2703
MW-6D (L2370783-06) Analyzed: 12/06/23 13:41 2715
MW-7S (L2370783-07) Analyzed: 12/06/23 13:50 2721
DUP (L2370783-09) Analyzed: 12/06/23 14:00 2727
EB (L2370783-11) Analyzed: 12/06/23 14:09 2732
MW-8S (L2370783-08) Analyzed: 12/06/23 14:47 2739
Aroclor Standards Data 2744

Table of Contents

Initial Calibration 2745
Form 6 - Organics 2746
ICAL for PEST2 on 11/09/23 ICAL20537 2750
Initial Calibration Summary - Cal Date: 11/09/23 00:00 2750
1242/1268 L4 (250ug/L) Injected on: 11/09/23 13:05 2754
1232/1262 L4 (250ug/L) Injected on: 11/09/23 13:14 2771
1248 L4 (250ug/L) Injected on: 11/09/23 13:23 2786
1221/1254 L4 (250ug/L) Injected on: 11/09/23 13:32 2796
1016/1260 L1 (10ug/L) Injected on: 11/09/23 13:41 2801
1016/1260 L2 (50ug/L) Injected on: 11/09/23 13:50 2829
1016/1260 L3 (100ug/L) Injected on: 11/09/23 13:58 2847
1016/1260 L4 (250ug/L) Injected on: 11/09/23 14:07 2868
1016/1260 L5 (500ug/L) Injected on: 11/09/23 14:15 2889
1016/1260 L6 (1000ug/L) Injected on: 11/09/23 14:24 2901
Initial Calibration Verification 2916
1242/1268 ICV Summary Form Injected on: 11/09/23 14:33 2917
1242/1268 ICV Quant Report Injected on: 11/09/23 14:33 2921
1232/1262 ICV Summary Form Injected on: 11/09/23 14:42 2929
1232/1262 ICV Quant Report Injected on: 11/09/23 14:42 2933
1248 ICV Summary Form Injected on: 11/09/23 14:51 2944
1248 ICV Quant Report Injected on: 11/09/23 14:51 2948
1221/1254 ICV Summary Form Injected on: 11/09/23 15:00 2955
1221/1254 ICV Quant Report Injected on: 11/09/23 15:00 2959
1016/1260 ICV Summary Form Injected on: 11/09/23 15:09 2964
1016/1260 ICV Quant Report Injected on: 11/09/23 15:09 2968
Continuing Calibration 2981
Form 7 - Organics 2982
CC Summary - PEST2 Run: 12/06/23 09:27 2984
CC Quant - WG1860406-1 PEST2 Run: 12/06/23 09:27 2986
RT Shift Summary 3012
Form 10 - Organics 3013
Aroclor Raw QC Data 3014
Laboratory Method Bl (WG1859857-1) Analyzed: 12/06/23 12:07 Chan. A&B 3015
Laboratory Method Bl (WG1860227-1) Analyzed: 12/06/23 14:19 Chan. A&B 3020
Laboratory Control S (WG1859857-2) Analyzed: 12/06/23 12:16 Chan. A&B 3025
Laboratory Control S (WG1860227-2) Analyzed: 12/06/23 14:28 Chan. A&B 3033
LCS Duplicate (WG1859857-3) Analyzed: 12/06/23 12:26 Chan. A&B 3044
LCS Duplicate (WG1860227-3) Analyzed: 12/06/23 14:37 Chan. A&B 3054
Matrix Spike (WG1859857-4) Analyzed: 12/06/23 13:13 Chan. A&B 3061
Matrix Spike Duplica (WG1859857-5) Analyzed: 12/06/23 13:22 Chan. A&B 3070
PCB Calculations 3080
ICAL Sequence for PEST2 on 09-NOV-2023 00:00 ICAL20537 3081
Instrument PEST2 Run Date 12/06/23 Run ID R1771810 3082
QC Batch WG1859857 3083
QC Batch WG1860227 3084
Organic ELN-Workgroup:WG1860227 3085
Organic ELN-Workgroup:WG1859857 3090
GC Pesticide Analysis 3095
Pesticides QC Summary 3096
Form 2 - Organics 3097

Table of Contents

Form 3 - Organics 3098
Form 4 - Organics 3100
Form 8 - Organics 3101
MDL Study - Pesticides 3103
Pesticides Sample Data 3105
Form 1 - Organics 3106
MW-4D (L2370783-04) Analyzed: 12/04/23 15:56 3128
MW-6D (L2370783-06) Analyzed: 12/04/23 16:29 3132
MW-7S (L2370783-07) Analyzed: 12/04/23 16:40 3142
MW-8S (L2370783-08) Analyzed: 12/04/23 16:51 3149
DUP (L2370783-09) Analyzed: 12/04/23 17:02 3156
EB (L2370783-11) Analyzed: 12/04/23 17:13 3165
MW-1S (L2370783-01) Analyzed: 12/04/23 17:25 3175
MW-2S (L2370783-02) Analyzed: 12/04/23 17:36 3184
MW-3S (L2370783-03) Analyzed: 12/04/23 17:47 3197
MW-5S (L2370783-05) Analyzed: 12/04/23 17:59 3207
Pesticides Standards Data 3222
Initial Calibration 3223
Form 6 - Organics 3224
ICAL for PEST18 on 10/19/23 ICAL20463 3232
Initial Calibration Summary - Cal Date: 10/19/23 00:00 3232
Degradation Standard Injected on: 10/17/23 12:03 3237
Pesticides L1 (0.5ug/L) Injected on: 10/17/23 12:14 3249
Pesticides L2 (1.0ug/L) Injected on: 10/17/23 12:25 3255
Pesticides L3 (2.0ug/L) Injected on: 10/17/23 12:37 3283
Pesticides L4 (3.0ug/L) Injected on: 10/17/23 12:48 3322
Pesticides L5 (4.0ug/L) Injected on: 10/17/23 13:00 3359
Pesticides L7 (10.0ug/L) Injected on: 10/17/23 13:11 3397
Pesticides L8 (50.0ug/L) Injected on: 10/17/23 13:22 3426
Pesticides L9 (100ug/L) Injected on: 10/17/23 13:34 3458
Pesticides L10 (200ug/L) Injected on: 10/17/23 13:45 3496
Pesticides L11 (400ug/L) Injected on: 10/17/23 13:57 3535
Initial Calibration Verification 3575
ICV Summary Form Injected on: 10/17/23 14:08 3576
ICV Quant Report Injected on: 10/17/23 14:08 3579
Chlordane L3 (10ug/L) Injected on: 10/17/23 14:20 3606
Chlordane L4 (20ug/L) Injected on: 10/17/23 14:31 3613
Chlordane L5 (100ug/L) Injected on: 10/17/23 14:42 3620
Chlordane L7 (500ug/L) Injected on: 10/17/23 14:54 3627
Chlordane L8 (1000ug/L) Injected on: 10/17/23 15:05 3633
Chlordane L9 (2000ug/L) Injected on: 10/17/23 15:17 3640
Chlordane L10 (5000ug/L) Injected on: 10/17/23 15:28 3647
Initial Calibration Verification 3654
ICV Summary Form Injected on: 10/17/23 15:39 3655
ICV Quant Report Injected on: 10/17/23 15:39 3658
Toxaphene L3 (20.0ug/L) Injected on: 10/17/23 15:51 3664
Toxaphene L8 (2000ug/L) Injected on: 10/17/23 16:02 3676
Toxaphene L9 (5000ug/L) Injected on: 10/17/23 16:14 3683
Initial Calibration Verification 3689
ICV Summary Form Injected on: 10/17/23 16:25 3690

Table of Contents

ICV Quant Report Injected on: 10/17/23 16:25 3693
Correlation Data Summary 3700
ICAL for PEST10 on 11/14/23 ICAL20620 3701
Initial Calibration Summary - Cal Date: 11/14/23 00:00 3701
Degradation Standard Injected on: 11/13/23 16:34 3706
Pesticides L1 (0.5ug/L) Injected on: 11/13/23 16:45 3715
Pesticides L2 (1.0ug/L) Injected on: 11/13/23 16:56 3719
Pesticides L3 (2.0ug/L) Injected on: 11/13/23 17:07 3731
Pesticides L4 (3.0ug/L) Injected on: 11/13/23 17:18 3744
Pesticides L5 (4.0ug/L) Injected on: 11/13/23 17:29 3756
Pesticides L7 (10.0ug/L) Injected on: 11/13/23 17:40 3779
Pesticides L8 (50.0ug/L) Injected on: 11/13/23 17:51 3791
Pesticides L9 (100ug/L) Injected on: 11/13/23 18:02 3802
Pesticides L10 (200ug/L) Injected on: 11/13/23 18:13 3812
Pesticides L11 (400ug/L) Injected on: 11/13/23 18:24 3823
Initial Calibration Verification 3839
ICV Summary Form Injected on: 11/13/23 18:35 3840
ICV Quant Report Injected on: 11/13/23 18:35 3843
Chlordane L3 (10ug/L) Injected on: 11/13/23 18:46 3852
Chlordane L4 (20ug/L) Injected on: 11/13/23 18:57 3859
Chlordane L5 (100ug/L) Injected on: 11/13/23 19:08 3864
Chlordane L7 (500ug/L) Injected on: 11/13/23 19:19 3868
Chlordane L8 (1000ug/L) Injected on: 11/13/23 19:30 3872
Chlordane L9 (2000ug/L) Injected on: 11/13/23 19:41 3876
Chlordane L10 (5000ug/L) Injected on: 11/13/23 19:52 3880
Initial Calibration Verification 3885
ICV Summary Form Injected on: 11/13/23 20:03 3886
ICV Quant Report Injected on: 11/13/23 20:03 3889
Toxaphene L3 (20.0ug/L) Injected on: 11/13/23 20:14 3894
Toxaphene L8 (2000ug/L) Injected on: 11/13/23 20:25 3900
Toxaphene L9 (5000ug/L) Injected on: 11/13/23 20:36 3904
Initial Calibration Verification 3908
ICV Summary Form Injected on: 11/13/23 20:47 3909
ICV Quant Report Injected on: 11/13/23 20:47 3912
Correlation Data Summary 3916
Continuing Calibration 3917
Form 7 - Organics 3918
CC Summary - PEST18 Run: 12/03/23 09:01 3936
CC Quant - WG1859122-1 PEST18 Run: 12/03/23 09:01 3939
CC Summary - PEST18 Run: 12/03/23 09:13 3997
CC Quant - WG1859122-2 PEST18 Run: 12/03/23 09:13 4000
CC Summary - PEST18 Run: 12/03/23 09:24 4013
CC Quant - WG1859122-3 PEST18 Run: 12/03/23 09:24 4016
CC Summary - PEST10 Run: 12/04/23 10:10 4029
CC Quant - WG1859447-2 PEST10 Run: 12/04/23 10:10 4032
CC Summary - PEST10 Run: 12/04/23 10:21 4038
CC Quant - WG1859447-3 PEST10 Run: 12/04/23 10:21 4041
CC Summary - PEST10 Run: 12/04/23 15:24 4045
CC Quant - WG1859447-4 PEST10 Run: 12/04/23 15:24 4048
CC Summary - PEST18 Run: 12/04/23 12:39 4052

Table of Contents

CC Quant - WG1859540-1 PEST18 Run: 12/04/23 12:39 4055
CC Summary - PEST18 Run: 12/04/23 12:51 4085
CC Quant - WG1859540-2 PEST18 Run: 12/04/23 12:51 4088
CC Summary - PEST18 Run: 12/04/23 13:02 4097
CC Quant - WG1859540-3 PEST18 Run: 12/04/23 13:02 4100
Continuing Calibration Degradation Check 4106
Form 15 - Organics 4107
DEG Quant for PEST18 injected on 12/03/23 08:50 4110
DEG Quant for PEST10 injected on 12/04/23 09:48 4122
DEG Quant for PEST18 injected on 12/04/23 12:28 4132
RT Shift Summary 4140
Form 10 - Organics 4141
Pesticides Raw QC Data 4142
Laboratory Method Bl (WG1859016-1) Analyzed: 12/03/23 13:11 Chan. A&B 4143
Laboratory Control S (WG1859016-2) Analyzed: 12/03/23 13:23 Chan. A&B 4156
LCS Duplicate (WG1859016-3) Analyzed: 12/03/23 13:34 Chan. A&B 4194
Matrix Spike (WG1859016-4) Analyzed: 12/04/23 16:07 Chan. A&B 4214
Matrix Spike Duplica (WG1859016-5) Analyzed: 12/04/23 16:18 Chan. A&B 4246
Pesticides Calculations 4271
ICAL Sequence for PEST18 on 19-OCT-2023 00:00 ICAL20463 4272
ICAL Sequence for PEST10 on 14-NOV-2023 00:00 ICAL20620 4273
Instrument PEST18 Run Date 12/03/23 Run ID R1770636 4274
Instrument PEST10 Run Date 12/04/23 Run ID R1770745 4276
Instrument PEST18 Run Date 12/04/23 Run ID R1771178 4278
QC Batch WG1859016 4279
Organic ELN-Workgroup:WG1859016 4280
Metals Analysis 4284
Inorganic Data (ICPMS Analysis) 4285
Form 1 - Inorganics 4286
Form 2A - Inorganics 4312
Form 3 - Inorganics 4318
Form 4A - Inorganics 4324
Form 5A - Inorganics 4326
Form 7 - Inorganics 4330
Form 8 - Inorganics 4332
Form 12 - Inorganics 4336
Form 13 - Inorganics 4338
Form 14 - Inorganics 4342
Form 15 - Inorganics 4344
MDL Study - Metals by ICPMS 4348
Tune Report Run Date 12/05/23 Run ID R1771086 4350
Tune Report Run Date 12/06/23 Run ID R1771559 4353
Run Date 12/05/23 Run ID R1771086 4356
Run Date 12/06/23 Run ID R1771559 4551
ICPMS True Value Summary Form 4762
ICPMS Calculations 4776
Instrument ICPMSQ Run Date 12/05/23 Run ID R1771086 4777
Instrument ICPMSQ Run Date 12/06/23 Run ID R1771559 4781
Metals ELN-Workgroup:WG1859770 4785
Metals ELN-Workgroup:WG1859880 4788

Table of Contents

Inorganic Data (Mercury Analysis) 4791
Form 1 - Inorganics 4792
Form 2A - Inorganics 4814
Form 3 - Inorganics 4821
Form 5A - Inorganics 4828
Form 7 - Inorganics 4832
Form 12 - Inorganics 4834
Form 13 - Inorganics 4836
MDL Study - Mercury by 245.1 4840
MDL Study - Mercury by 7470A 4841
MDL Study - Mercury by 7471B 4842
Run Date 12/06/23 Run ID R1771626 4843
Hg True Value Summary Form 4851
HG Calculations 4865
Instrument NIC1 Run Date 12/06/23 Run ID R1771626 4867
Metals ELN-Workgroup:WG1859771 4871
Metals ELN-Workgroup:WG1859882 4874
Wet Chemistry Analysis 4877
Total Nitrogen Calculation 4878
Results 4879
Form 1 - Inorganics 4880
Sample Raw Data 4889
Wet Chemistry Raw Data 4890
Total Nitrogen Calculations 4891
TKN Analysis 4892
Results 4893
Form 1 - Inorganics 4894
Sample Raw Data 4905
Wet Chemistry Raw Data 4906
WG1858839_rawdata 4906
WG1859068_rawdata 4906
231205_NH3TKN_rawdataA 4906
231205_NH3TKN_rawdataB 4908
231205_NH3TKN_rawdataC 4910
231205_NH3TKN_rawdataD 4912
231205_NH3TKN_rawdataE 4914
231205_NH3TKN_rawdataE1 4916
231205_NH3TKN_rawdataE2 4918
231205_NH3TKN_rawdataF 4920
231205_NH3TKN_rawdataG 4922
231205_NH3TKN_rawdataH 4924
231205_NH3TKN_rawdataI 4926
231205_NH3TKN_rawdataI1 4928
231205_NH3TKN_rawdataJ 4930
231205_NH3TKN_rawdataK 4932
231205_NH3TKN_rawdataL 4934
Quality Control 4936
Form 5A - Inorganics 4937
Form 6 - Inorganics 4938
Form 7 - Inorganics 4939

Table of Contents

MDL Study - Total Kjeldahl Nitrogen 4940
TKN Calculations 4942
Sequence Logs 4943
Instrument LACHAT Run Date 12/05/23 Run ID R1771404 4944
Sample Preparation 4949
Prep Log 4950
Ammonia Analysis 4951
Results 4952
Form 1 - Inorganics 4953
Sample Raw Data 4964
Wet Chemistry Raw Data 4965
WG1858839_rawdata 4965
WG1859068_rawdata 4965
231205_NH3TKN_rawdataA 4965
231205_NH3TKN_rawdataB 4967
231205_NH3TKN_rawdataC 4969
231205_NH3TKN_rawdataD 4971
231205_NH3TKN_rawdataE 4973
231205_NH3TKN_rawdataE1 4975
231205_NH3TKN_rawdataE2 4977
231205_NH3TKN_rawdataF 4979
231205_NH3TKN_rawdataG 4981
231205_NH3TKN_rawdataH 4983
231205_NH3TKN_rawdataI 4985
231205_NH3TKN_rawdataI1 4987
231205_NH3TKN_rawdataJ 4989
231205_NH3TKN_rawdataK 4991
231205_NH3TKN_rawdataL 4993
Quality Control 4995
Form 5A - Inorganics 4996
Form 6 - Inorganics 4997
Form 7 - Inorganics 4998
MDL Study - Ammonia 4999
Ammonia Calculations 5001
Sequence Logs 5002
Instrument LACHAT Run Date 12/05/23 Run ID R1771419 5003
Sample Preparation 5007
Prep Log 5008
Nitrate-Nitrite Analysis 5009
Results 5010
Form 1 - Inorganics 5011
Sample Raw Data 5022
Wet Chemistry Raw Data 5023
231201-1 5023
Quality Control 5048
Form 5A - Inorganics 5049
Form 6 - Inorganics 5050
Form 7 - Inorganics 5051
MDL Study - Nitrate and Nitrite 5052
Nitrate Nitrite Calculations 5054

Table of Contents

Sequence Logs 5055
Instrument LACHAT Run Date 12/01/23 Run ID R1770242 5056
Sheet1 5056
Total Dissolved Solids Analysis 5059
Results 5060
Form 1 - Inorganics 5061
Sample Raw Data 5073
Wet Chemistry Raw Data 5074
Quality Control 5076
Form 6 - Inorganics 5077
Form 7 - Inorganics 5079
MDL Study - Total Dissolved Solids 5080
TDS Calculations 5081
Sulfide Analysis 5082
Results 5083
Form 1 - Inorganics 5084
Sample Raw Data 5095
Wet Chemistry Raw Data 5096
Quality Control 5098
Form 5A - Inorganics 5099
Form 6 - Inorganics 5100
Form 7 - Inorganics 5101
MDL Study - Sulfide 5102
Sulfide Calculations 5104
Alkalinity Analysis 5105
Results 5106
Form 1 - Inorganics 5107
Sample Raw Data 5118
Wet Chemistry Raw Data 5119
231206_ALK1 5119
231206_ALK2 5120
231206_ALK3 5121
231206_ALK4 5122
231206_ALK5 5123
231206_CAL 5124
231206_LCS 5125
Quality Control 5126
Form 6 - Inorganics 5127
MDL Study - Alkalinity 5128
Alkalinity Calculations 5129
Sequence Logs 5130
Instrument METTLER Run Date 12/06/23 Run ID R1772062 5131
Phosphates Analysis 5134
Results 5135
Form 1 - Inorganics 5136
Sample Raw Data 5147
Wet Chemistry Raw Data 5148
Quality Control 5150
Form 5A - Inorganics 5151
Form 6 - Inorganics 5152

Table of Contents

Form 7 - Inorganics 5153
MDL Study - Total Phosphorus 5154
MDL Study - Orthophosphate 5156
Total Phosphorus Calculation 5158
Wet Chemistry By IC Methods 5159
Results 5160
Form 1 - Inorganics 5161
Sample Raw Data 5183
Wet Chemistry Raw Data 5184
Quality Control 5353
Form 5A - Inorganics 5354
Form 6 - Inorganics 5357
Form 7 - Inorganics 5360
MDL Study - Ion Chromatography 5362
IC Calculations 5363
Alpha Analytical Report 5364
Subcontracted Data Documents 5364
Subcontracted Data 5365

Project Name: HUNTINGTON READY MIX
Project Number: 20116

Lab Number: L2370783
Report Date: 12/12/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2370783-01	MW-1S	WATER	SOUTHAMTON, NY	11/29/23 12:40	11/30/23
L2370783-02	MW-2S	WATER	SOUTHAMTON, NY	11/29/23 11:10	11/30/23
L2370783-03	MW-3S	WATER	SOUTHAMTON, NY	11/29/23 09:30	11/30/23
L2370783-04	MW-4D	WATER	SOUTHAMTON, NY	11/29/23 14:00	11/30/23
L2370783-05	MW-5S	WATER	SOUTHAMTON, NY	11/29/23 15:30	11/30/23
L2370783-06	MW-6D	WATER	SOUTHAMTON, NY	11/29/23 10:08	11/30/23
L2370783-07	MW-7S	WATER	SOUTHAMTON, NY	11/29/23 11:38	11/30/23
L2370783-08	MW-8S	WATER	SOUTHAMTON, NY	11/29/23 16:40	11/30/23
L2370783-09	DUP	WATER	SOUTHAMTON, NY	11/29/23 00:00	11/30/23
L2370783-10	DUP2	WATER	SOUTHAMTON, NY	11/29/23 00:00	11/30/23
L2370783-11	EB	WATER	SOUTHAMTON, NY	11/29/23 08:45	11/30/23
L2370783-12	TRIP BLANK	WATER	SOUTHAMTON, NY	11/29/23 00:00	11/30/23

Case Narrative

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

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

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

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

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

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

Case Narrative (continued)

Report Submission

December 12, 2023: This final report includes the results of all requested analyses.

December 08, 2023: This is a preliminary report.

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

The analysis of Iodide was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Sample Receipt

L2370783-06: The collection date and time on the chain of custody was 29-NOV-23 10:03; however, the collection date/time on the container label was 29-NOV-23 10:08. At the client's request, the collection date/time is reported as 29-NOV-23 10:08.

Semivolatile Organics by SIM

The WG1859056-1 Method Blank, associated with L2370783-01 through -09 and -11, has a concentration above the reporting limit for Naphthalene. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

Total Metals

The WG1859770-3/-4 MS/MSD recoveries for sodium (66%/39%), performed on L2370783-04, do not apply because the sample concentration is greater than four times the spike amount added.

Dissolved Metals

L2370783-11: The dissolved results are greater than the total results. The sample containers were verified as being labeled correctly by the laboratory.

Case Narrative (continued)

The WG1859880-3/-4 MS/MSD recoveries for sodium (63%/60%), performed on L2370783-04, do not apply because the sample concentrations are greater than four times the spike amounts added.

Nitrogen, Ammonia

The WG1859718-4 MS recovery, performed on L2370783-01, is outside the acceptance criteria for nitrogen, ammonia (118%); however, the associated LCS recovery is within criteria. No further action was taken.

Anions by Ion Chromatography

The WG1860728-3 MS recoveries, performed on L2370783-07, are outside the acceptance criteria for chloride (72%) and fluoride (80%); however, the associated LCS recoveries are within criteria. No further action was taken.

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

Authorized Signature: Tiffani Morrissey Report Date: 12/12/23

Title: Technical Director/Representative

GLOSSARY

Acronyms

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

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

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

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

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

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

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

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

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

Data Qualifiers

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

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

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

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

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

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

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

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

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

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

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

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

the identification is based on a mass spectral library search.

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

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

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

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

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

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

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

Volatile Organics Instruments

Volatile Organics:

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

Volatile Organics: VPH

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

Volatile Organics: PIANO

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

Volatile Organics: Dissolved Gas

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

Volatile Organics in Air Instruments

Volatile Organics in Air:

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

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

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

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

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

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

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

Pesticides/PCB/Herbicides:

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

Petroleum/EPH:

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

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

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

Semivolatile Organics (8270):

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

Semivolatile Organics (8270 SIM):

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

Semivolatile Organics (1,4-Dioxane):

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

Semivolatile Organics (209 Congener):

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

Semivolatile Organics (8081):

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

Semivolatile Organics (8082):

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

Semivolatile Organics (SHC Extractables):

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

Sample Delivery Group Summary

Alpha Job Number : L2370783

Received : 30-NOV-2023
Reviewer : Maile Kolton

Account Name : Alpha Geoscience
Project Number : 20116
Project Name : HUNTINGTON READY MIX

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Present/Intact/n/a	Ice	5.2	
B	Absent/	Ice	3.2	
C	Absent/	Ice	4.4	
D	Present/Intact/n/a	Ice	3.3	
E	Present/Intact/n/a	Ice	4.8	
F	Absent/	Ice	2.2	
G	Present/Intact/n/a	Ice	3.8	
H	Present/Intact/n/a	Ice	3.3	
I	Present/Intact/n/a	Ice	4.7	
J	Present/Intact/n/a	Ice	2.3	
K	Present/Not Intact/n/a	Ice	3.2	

Condition Information

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

2) Extra samples received? **NO**

3) Are there any sample container discrepancies? **NO**

4) Are there any discrepancies between COC & sample labels? **YES**
L2370783-06: 29-NOV-23 10:03 vs. 29-NOV-23 10:08

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

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

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

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

Sample Delivery Group Summary

Alpha Job Number : L2370783

Account Name : Alpha Geoscience
Project Number : 20116
Project Name : HUNTINGTON READY MIX

Received : 30-NOV-2023
Reviewer : Maile Kolton

Volatile Organics/VPH

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

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 12 2023, 03:05 pm

Login Number: L2370783
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 30NOV23 Due Date: 21DEC23

Sample #	Client ID	Mat	PR	Collected
L2370783-01	MW-1S		1	S0 29NOV23 12:40

1ZE306540197187255 108.59 USD NYTCL-8270-LVI: Non-Routine; ;1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;Benzaldehyde;Caprolactam 8260/8270 REPORT LIST BUILT ASP-B Package Due Date: 12/21/23

ALK-CO3-2320,ALK-HCO3-2320,ASP-B,BR-300,CL-300,E&I-FEE,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI, NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500, TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S, FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S, V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T, CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T, SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2370783-02	MW-2S		1	S0 29NOV23 11:10

NYTCL-8270-LVI: Non-Routine; ;1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine; Benzaldehyde;Caprolactam 8260/8270 REPORT LIST BUILT Package Due Date: 12/21/23

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2, NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2370783-03	MW-3S		1	S0 29NOV23 09:30

NYTCL-8270-LVI: Non-Routine; ;1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine; Benzaldehyde;Caprolactam 8260/8270 REPORT LIST BUILT Package Due Date: 12/21/23

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 12 2023, 03:05 pm

Login Number: L2370783
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 30NOV23 Due Date: 21DEC23

Sample #	Client ID	Mat	PR	Collected

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2370783-04 MW-4D 1 S0 29NOV23 14:00

NYTCL-8270-LVI: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;
Benzaldehyde;Caprolactam L2370783-04 MS L2370783-04 MSD 8260/8270 REPORT LIST BUILT Package Due Date:
12/21/23

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,MS/MSD,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-
R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,
AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,
HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,
ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,
CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,
TL-6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2370783-05 MW-5S 1 S0 29NOV23 15:30

NYTCL-8270-LVI: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;
Benzaldehyde;Caprolactam 8260/8270 REPORT LIST BUILT Package Due Date: 12/21/23

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 12 2023, 03:05 pm

Login Number: L2370783
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 30NOV23 Due Date: 21DEC23

Sample #	Client ID	Mat	PR	Collected
L2370783-06	MW-6D		1 S0	29NOV23 10:08

NYTCL-8270-LVI: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;
Benzaldehyde;Caprolactam 8260/8270 REPORT LIST BUILT Package Due Date: 12/21/23

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2370783-07	MW-7S		1 S0	29NOV23 11:38

NYTCL-8270-LVI: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;
Benzaldehyde;Caprolactam 8260/8270 REPORT LIST BUILT Package Due Date: 12/21/23

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2370783-08	MW-8S		1 S0	29NOV23 16:40

NYTCL-8270-LVI: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;
Benzaldehyde;Caprolactam 8260/8270 REPORT LIST BUILT Package Due Date: 12/21/23

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 12 2023, 03:05 pm

Login Number: L2370783
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 30NOV23 Due Date: 21DEC23

Sample #	Client ID	Mat	PR	Collected

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,
NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,SO4-300,SUB-IODIDE,SULFIDE-4500,TAL-6020S,AG-
6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-
S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-
6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-
6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-
6020T,V-6020T,ZN-6020T,TDS-2540,TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2370783-09 DUP 1 S0 29NOV23 00:00

NYTCL-8270-LVI: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;
Benzaldehyde;Caprolactam 8260/8270 REPORT LIST BUILT limited volume for 8081 and 8082-LVI Package Due
Date: 12/21/23

NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,TAL-
6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-
6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-
6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-
6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-
6020T,TL-6020T,V-6020T,ZN-6020T

L2370783-10 DUP2 1 S0 29NOV23 00:00

NYTCL-8270-LVI: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;
Benzaldehyde;Caprolactam 8260/8270 REPORT LIST BUILT Package Due Date: 12/21/23

ALK-CO3-2320,ALK-HCO3-2320,BR-300,CL-300,F-300,NH3-350,SO4-300,SUB-IODIDE,SULFIDE-4500,TDS-2540,
TOTALNITROGEN,NO3/NO2-4500,TKN-4500,TNITROGEN,TPO4-4500

L2370783-11 EB 1 S0 29NOV23 08:45

NYTCL-8270-LVI: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;
Benzaldehyde;Caprolactam 8260/8270 REPORT LIST BUILT Package Due Date: 12/21/23

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 12 2023, 03:05 pm

Login Number: L2370783
Account: ALPHAGEO Alpha GeoscienceProject: 20116
Received: 30NOV23 Due Date: 21DEC23

Sample #	Client ID	Mat	PR	Collected

NYTCL-8081,NYTCL-8082-LVI,NYTCL-8260-R2,NYTCL-8270/SIM-LVI,NYTCL-8270-LVI,NYTCL-8270-SIM-LVI,TAL-6020S,AG-6020S,AL-6020S,AS-6020S,BA-6020S,BE-6020S,CA-6020S,CD-6020S,CO-6020S,CR-6020S,CU-6020S,FE-6020S,HG-S,K-6020S,MG-6020S,MN-6020S,NA-6020S,NI-6020S,PB-6020S,PREPS,SB-6020S,SE-6020S,TL-6020S,V-6020S,ZN-6020S,TAL-6020T,AG-6020T,AL-6020T,AS-6020T,BA-6020T,BE-6020T,CA-6020T,CD-6020T,CO-6020T,CR-6020T,CU-6020T,FE-6020T,HG-T,K-6020T,MG-6020T,MN-6020T,NA-6020T,NI-6020T,PB-6020T,PREPT,SB-6020T,SE-6020T,TL-6020T,V-6020T,ZN-6020T

L2370783-12 TRIP BLANK 1 S0 29NOV23 00:00

NYTCL-8270-LVI: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;2,3,4,6-Tetrachlorophenol;Atrazine;Benzaldehyde;Caprolactam 8260/8270 REPORT LIST BUILT Package Due Date: 12/21/23

NYTCL-8260-R2

Logged By: Melissa Deyo

OHIO CHAIN OF CUSTODY

ALPHA ANALYTICAL

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

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

Service Centers
Columbus, OH: (614) 357-3321
OHServiceCenter@alphalab.com

Page 1 of 2

Date Rec'd in Lab: 12/1/23

ALPHA Job #: L2370783

Project Information
Project Name: Huntington Ready Mixed
Project Location: Southampton NY
Project #: 20116
(Use Project name as Project #) ☐
Project Manager: S. Hulsapple
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Client Information
Client: Alpha Geoscience
Address: 679 Plank Rd
Clifton Park NY
Phone: 518-348-6995
Fax:
Email: shulsapple@alphageoscience.com

These samples have been previously analyzed by Alpha ☒

Deliverables
☐ BUSTR QA/QC Form
☐ VAP Affidavit ☐ Other
☒ EQuIS (1 File) ☐ EQuIS (4 File)
↳ NYSDEC V4 + Cat B
☐ OH VAP
☐ OH BUSTR
☐ Other:
☐ Other:
☐ Other:

Billing Information
☒ Same as Client Info
PO # 20116

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

For TPH, selection is REQUIRED:
☐ GRO (C6-C12)
☐ DRO/ORO (C10-C20/C20-C34)
☐ Other:

Other project specific requirements/comments:

Please specify Metals, i.e. RCRA8, PP13, TAL, etc.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260 TCL	SVOCs 8270 NYTCL	PCBs/Pest 8082/8081	TAL Metals Total	TAL Metals 6 Dissolved	TKN, Total Nitrogen, Ammonia, NO_3/NO_2	Sulfide	Br, Cl, F, TDS, NO_3/NO_2	Alkalinity, HCO_3/CO_3	Iodide	Sample Specific Comments
70783-01	MW-1S	11/29/23	1240	WG	SH	X	X	X	X	X	X	X	X	X	X	
02	MW-2S		1110	WG	SH	X	X	X	X	X	X	X	X	X	X	
03	MW-3S		0930	WG	SH	X	X	X	X	X	X	X	X	X	X	
04	MW-4D		1400	WG	ER	X	X	X	X	X	X	X	X	X	X	
05	MW-5S		1530	WG	ER/JB	X	X	X	X	X	X	X	X	X	X	
06	MW-6D		1003	WG	JB	X	X	X	X	X	X	X	X	X	X	
07	MW-7S		1138	WG	JB	X	X	X	X	X	X	X	X	X	X	
08	MW-8S		1640	WG	ER/JB	X	X	X	X	X	X	X	X	X	X	
04	MS		1400	WG	ER	X	X	X	X	X						MW-4D
04	MSD		1400	WG	ER	X	X	X	X	X						MW-4D
	Container Type					V	A	A	P	P	P	P	P	P	P	
	Preservative					B	A	A	C	C	D	W/E	A	A	A	

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

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

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

Relinquished By:	Date/Time	Received By:	Date/Time
	11/30/23 1930		12/1/23 0000

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

Form No: 39490 (rev. 19-Mar-2021)

OHIO CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Columbus, OH: (614) 357-3321
OHServiceCenter@alphalab.com

Page 2 of 2

Date Rec'd in Lab: 12/1/23

ALPHA Job #: L2370783

Project Information
Project Name: Huntington Ready Mixed
Project Location: 20116
Project #
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Client Information
Client: Alpha Geoscience
Address:
Phone:
Fax:
Email:

Deliverables
☐ BUSTR QA/QC Form
☐ VAP Affidavit ☐ Other
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ OH VAP
☐ OH BUSTR
☐ Other:
☐ Other:
☐ Other:

Billing Information
☐ Same as Client Info
PO #

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For TPH, selection is REQUIRED:
☐ GRO (C6-C12)
☐ DRO/ORO (C10-C20/C20-C34)
☐ Other:

Other project specific requirements/comments:
Please specify Metals, i.e. RCRA8, PP13, TAL, etc.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total # Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260	SVOCs 8270	PCB/Pest 8082/8081	Total Metals TAL	Dissolved metals TAL	TKN, Total N, PCN, NO3/NO2, Ammonia	Sulfide	B, Cl, F, TDS, pH/Sp.	Alk, Cn, Hex	Tsolids	Sample Specific Comments
70783-09	DUP	11/29	—	WG	—	X	X	X	X	X						
10	DUP2	11/29	—	WG	—						X	X	X	X	X	
11	EB	11/29	845	WQ	SH	X	X	X	X	X						
12	TRIP Blank	—	—	WQ	—	X										

Container Type	V	A	A	P	P	P	P	P	P	P	
Preservative	B	A	A	C	C	D	K/E	A	A	A	

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

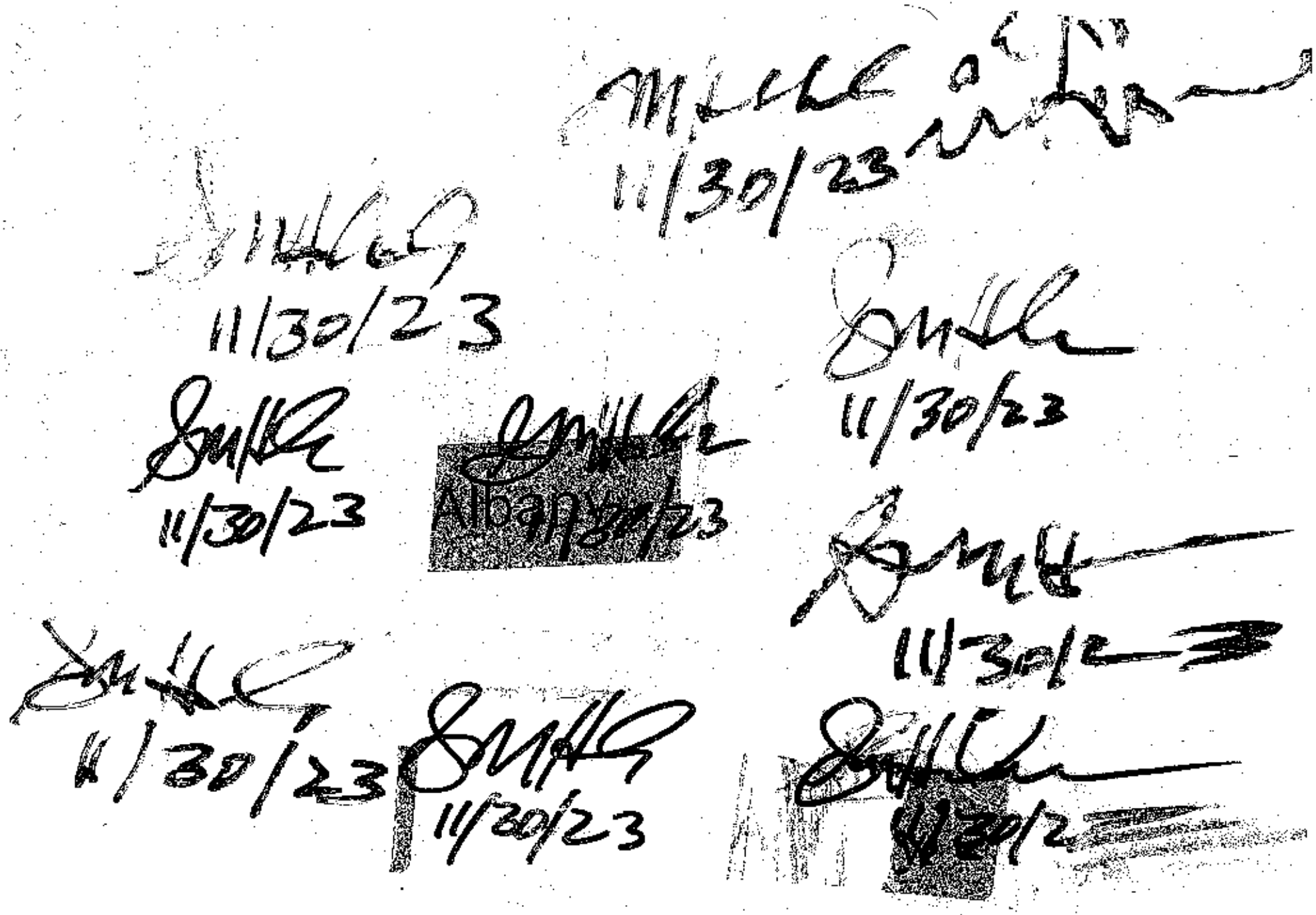
Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

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

Relinquished By:	Date/Time	Received By:	Date/Time
	11/30/23 1930		12/1/23 0900

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

Form No: 39490 (rev. 19-Mar-2021)



Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Surrogate Recovery Summary
Form 2
Volatiles

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIX

Lab Number: L2370783
Project Number: 20116
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-1S (L2370783-01)	91	96	94	107	0
MW-2S (L2370783-02)	90	96	94	107	0
MW-3S (L2370783-03)	95	96	93	107	0
MW-4D (L2370783-04)	96	95	95	111	0
MW-5S (L2370783-05)	99	97	94	112	0
MW-6D (L2370783-06)	98	95	94	110	0
MW-7S (L2370783-07)	97	94	95	110	0
MW-8S (L2370783-08)	97	97	93	113	0
DUP (L2370783-09)	99	96	95	114	0
EB (L2370783-11)	98	95	95	115	0
TRIP BLANK (L2370783-12)	94	95	95	110	0
WG1860843-3LCS	86	99	95	103	0
WG1860843-4LCSD	88	97	94	102	0
WG1860843-5BLANK	91	96	97	106	0
MW-4DMS	95	98	90	107	0
MW-4DMSD	93	97	92	105	0
WG1861020-3LCS	88	99	95	101	0
WG1861020-4LCSD	93	98	95	106	0
WG1861020-5BLANK	96	97	94	109	0

QC LIMITS

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

*** Values outside of QC limits**

FORM II NYTCL-8260-R2

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1860843-3 **Analysis Date** : 12/06/23 09:45	**File ID**	: VE231206B02
LCSD Sample ID	: WG1860843-4 **Analysis Date** : 12/06/23 10:09	**File ID**	: VE231206B03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	11	110	10	11	110	0	70-130	20
1,1-Dichloroethane	10	10	100	10	9.8	98	2	70-130	20
Chloroform	10	12	120	10	11	110	9	70-130	20
Carbon tetrachloride	10	12	120	10	11	110	9	63-132	20
1,2-Dichloropropane	10	9.3	93	10	9.1	91	2	70-130	20
Dibromochloromethane	10	10	100	10	10	100	0	63-130	20
1,1,2-Trichloroethane	10	10	100	10	10	100	0	70-130	20
Tetrachloroethene	10	11	110	10	11	110	0	70-130	20
Chlorobenzene	10	11	110	10	11	110	0	75-130	20
Trichlorofluoromethane	10	12	120	10	11	110	9	62-150	20
1,2-Dichloroethane	10	9.1	91	10	8.9	89	2	70-130	20
1,1,1-Trichloroethane	10	12	120	10	11	110	9	67-130	20
Bromodichloromethane	10	11	110	10	10	100	10	67-130	20
trans-1,3-Dichloropropene	10	10	100	10	10	100	0	70-130	20
cis-1,3-Dichloropropene	10	11	110	10	10	100	10	70-130	20
Bromoform	10	9.2	92	10	9.2	92	0	54-136	20
1,1,2,2-Tetrachloroethane	10	10	100	10	10	100	0	67-130	20
Benzene	10	12	120	10	11	110	9	70-130	20
Toluene	10	11	110	10	11	110	0	70-130	20
Ethylbenzene	10	11	110	10	11	110	0	70-130	20
Chloromethane	10	6.5	65	10	6.3	63 Q	3	64-130	20
Bromomethane	10	9.6	96	10	9.0	90	6	39-139	20
Vinyl chloride	10	8.2	82	10	7.9	79	4	55-140	20
Chloroethane	10	9.6	96	10	9.1	91	5	55-138	20
1,1-Dichloroethene	10	12	120	10	11	110	9	61-145	20
trans-1,2-Dichloroethene	10	12	120	10	11	110	9	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1860843-3 **Analysis Date** : 12/06/23 09:45	**File ID**	: VE231206B02
LCSD Sample ID	: WG1860843-4 **Analysis Date** : 12/06/23 10:09	**File ID**	: VE231206B03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	11	110	10	10	100	10	70-130	20
1,2-Dichlorobenzene	10	11	110	10	10	100	10	70-130	20
1,3-Dichlorobenzene	10	11	110	10	10	100	10	70-130	20
1,4-Dichlorobenzene	10	11	110	10	10	100	10	70-130	20
Methyl tert butyl ether	10	10	100	10	10	100	0	63-130	20
p/m-Xylene	20	23	115	20	22	110	4	70-130	20
o-Xylene	20	23	115	20	23	115	0	70-130	20
cis-1,2-Dichloroethene	10	12	120	10	12	120	0	70-130	20
Styrene	20	24	120	20	23	115	4	70-130	20
Dichlorodifluoromethane	10	6.9	69	10	6.5	65	6	36-147	20
Acetone	10	5.6	56 Q	10	6.7	67	18	58-148	20
Carbon disulfide	10	11	110	10	11	110	0	51-130	20
2-Butanone	10	6.4	64	10	6.6	66	3	63-138	20
4-Methyl-2-pentanone	10	6.7	67	10	6.6	66	2	59-130	20
2-Hexanone	10	6.0	60	10	6.2	62	3	57-130	20
Bromochloromethane	10	12	120	10	12	120	0	70-130	20
1,2-Dibromoethane	10	10	100	10	9.8	98	2	70-130	20
1,2-Dibromo-3-chloropropane	10	9.5	95	10	9.2	92	3	41-144	20
Isopropylbenzene	10	11	110	10	10	100	10	70-130	20
1,2,3-Trichlorobenzene	10	10	100	10	9.6	96	4	70-130	20
1,2,4-Trichlorobenzene	10	10	100	10	9.6	96	4	70-130	20
Methyl Acetate	10	6.9	69 Q	10	6.7	67 Q	3	70-130	20
Cyclohexane	10	8.6	86	10	8.1	81	6	70-130	20
1,4-Dioxane	500	570	114	500	600	120	5	56-162	20
Freon-113	10	12	120	10	11	110	9	70-130	20
Methyl cyclohexane	10	11	110	10	10	100	10	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1861020-3 **Analysis Date** : 12/07/23 06:31	**File ID**	: VE231207A01
LCSD Sample ID	: WG1861020-4 **Analysis Date** : 12/07/23 06:55	**File ID**	: VE231207A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	11	110	10	11	110	0	70-130	20
1,1-Dichloroethane	10	10	100	10	10	100	0	70-130	20
Chloroform	10	11	110	10	12	120	9	70-130	20
Carbon tetrachloride	10	12	120	10	12	120	0	63-132	20
1,2-Dichloropropane	10	9.2	92	10	9.4	94	2	70-130	20
Dibromochloromethane	10	9.9	99	10	10	100	1	63-130	20
1,1,2-Trichloroethane	10	10	100	10	10	100	0	70-130	20
Tetrachloroethene	10	11	110	10	11	110	0	70-130	20
Chlorobenzene	10	11	110	10	11	110	0	75-130	20
Trichlorofluoromethane	10	12	120	10	12	120	0	62-150	20
1,2-Dichloroethane	10	9.1	91	10	9.5	95	4	70-130	20
1,1,1-Trichloroethane	10	12	120	10	12	120	0	67-130	20
Bromodichloromethane	10	10	100	10	11	110	10	67-130	20
trans-1,3-Dichloropropene	10	10	100	10	10	100	0	70-130	20
cis-1,3-Dichloropropene	10	10	100	10	11	110	10	70-130	20
Bromoform	10	9.0	90	10	9.3	93	3	54-136	20
1,1,2,2-Tetrachloroethane	10	10	100	10	10	100	0	67-130	20
Benzene	10	11	110	10	12	120	9	70-130	20
Toluene	10	11	110	10	11	110	0	70-130	20
Ethylbenzene	10	11	110	10	11	110	0	70-130	20
Chloromethane	10	6.9	69	10	6.9	69	0	64-130	20
Bromomethane	10	10	100	10	11	110	10	39-139	20
Vinyl chloride	10	8.0	80	10	8.4	84	5	55-140	20
Chloroethane	10	10	100	10	10	100	0	55-138	20
1,1-Dichloroethene	10	12	120	10	11	110	9	61-145	20
trans-1,2-Dichloroethene	10	11	110	10	11	110	0	70-130	20

Laboratory Control Sample Summary
Form 3
Volatiles

Client : Alpha Geoscience **Lab Number** : L2370783
Project Name : HUNTINGTON READY MIX **Project Number** : 20116
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1861020-3 **Analysis Date** : 12/07/23 06:31 **File ID** : VE231207A01
LCSD Sample ID : WG1861020-4 **Analysis Date** : 12/07/23 06:55 **File ID** : VE231207A02

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Trichloroethene	10	11	110		10	11	110	0	70-130	20
1,2-Dichlorobenzene	10	10	100		10	10	100	0	70-130	20
1,3-Dichlorobenzene	10	10	100		10	11	110	10	70-130	20
1,4-Dichlorobenzene	10	10	100		10	11	110	10	70-130	20
Methyl tert butyl ether	10	9.9	99		10	11	110	11	63-130	20
p/m-Xylene	20	23	115		20	23	115	0	70-130	20
o-Xylene	20	23	115		20	23	115	0	70-130	20
cis-1,2-Dichloroethene	10	11	110		10	12	120	9	70-130	20
Styrene	20	23	115		20	23	115	0	70-130	20
Dichlorodifluoromethane	10	6.4	64		10	6.6	66	3	36-147	20
Acetone	10	7.0	70		10	7.4	74	6	58-148	20
Carbon disulfide	10	11	110		10	11	110	0	51-130	20
2-Butanone	10	6.3	63		10	7.6	76	19	63-138	20
4-Methyl-2-pentanone	10	6.5	65		10	6.6	66	2	59-130	20
2-Hexanone	10	6.0	60		10	6.3	63	5	57-130	20
Bromochloromethane	10	11	110		10	12	120	9	70-130	20
1,2-Dibromoethane	10	9.6	96		10	10	100	4	70-130	20
1,2-Dibromo-3-chloropropane	10	8.9	89		10	9.6	96	8	41-144	20
Isopropylbenzene	10	10	100		10	10	100	0	70-130	20
1,2,3-Trichlorobenzene	10	9.3	93		10	9.8	98	5	70-130	20
1,2,4-Trichlorobenzene	10	9.4	94		10	9.7	97	3	70-130	20
Methyl Acetate	10	6.5	65	Q	10	7.0	70	7	70-130	20
Cyclohexane	10	8.0	80		10	8.0	80	0	70-130	20
1,4-Dioxane	500	490	98		500	540	108	10	56-162	20
Freon-113	10	12	120		10	12	120	0	70-130	20
Methyl cyclohexane	10	10	100		10	10	100	0	70-130	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2370783-04	**Analysis Date**	: 12/06/23 13:25
Matrix Spike	: WG1860843-6	**MS Analysis Date**	: 12/06/23 19:08
Matrix Spike Dup	: WG1860843-7	**MSD Analysis Date**	: 12/06/23 19:33

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	10	11	110	10	11	110	0	70-130	20
1,1-Dichloroethane	ND	10	10	100	10	10	100	0	70-130	20
Chloroform	1.7J	10	13	130	10	13	130	0	70-130	20
Carbon tetrachloride	ND	10	12	120	10	12	120	0	63-132	20
1,2-Dichloropropane	ND	10	9.3	93	10	9.2	92	1	70-130	20
Dibromochloromethane	ND	10	9.9	99	10	9.8	98	1	63-130	20
1,1,2-Trichloroethane	ND	10	10	100	10	10	100	0	70-130	20
Tetrachloroethene	ND	10	10	100	10	10	100	0	70-130	20
Chlorobenzene	ND	10	11	110	10	11	110	0	75-130	20
Trichlorofluoromethane	ND	10	11	110	10	12	120	9	62-150	20
1,2-Dichloroethane	ND	10	9.3	93	10	9.3	93	0	70-130	20
1,1,1-Trichloroethane	ND	10	12	120	10	12	120	0	67-130	20
Bromodichloromethane	ND	10	11	110	10	11	110	0	67-130	20
trans-1,3-Dichloropropene	ND	10	9.6	96	10	9.7	97	1	70-130	20
cis-1,3-Dichloropropene	ND	10	9.7	97	10	9.8	98	1	70-130	20
Bromoform	ND	10	8.8	88	10	8.9	89	1	54-136	20
1,1,2,2-Tetrachloroethane	ND	10	10	100	10	10	100	0	67-130	20
Benzene	ND	10	12	120	10	11	110	9	70-130	20
Toluene	ND	10	11	110	10	11	110	0	70-130	20
Ethylbenzene	ND	10	10	100	10	11	110	10	70-130	20
Chloromethane	ND	10	6.7	67	10	6.6	66	2	64-130	20
Bromomethane	ND	10	10	100	10	11	110	10	39-139	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2370783-04	**Analysis Date**	: 12/06/23 13:25
Matrix Spike	: WG1860843-6	**MS Analysis Date**	: 12/06/23 19:08
Matrix Spike Dup	: WG1860843-7	**MSD Analysis Date**	: 12/06/23 19:33

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Vinyl chloride	ND	10	8.7	87	10	8.5	85	2	55-140	20
Chloroethane	ND	10	10	100	10	10	100	0	55-138	20
1,1-Dichloroethene	ND	10	12	120	10	12	120	0	61-145	20
trans-1,2-Dichloroethene	ND	10	11	110	10	11	110	0	70-130	20
Trichloroethene	ND	10	11	110	10	11	110	0	70-130	20
1,2-Dichlorobenzene	ND	10	9.5	95	10	10	100	5	70-130	20
1,3-Dichlorobenzene	ND	10	9.7	97	10	10	100	3	70-130	20
1,4-Dichlorobenzene	ND	10	9.7	97	10	10	100	3	70-130	20
Methyl tert butyl ether	ND	10	9.9	99	10	9.9	99	0	63-130	20
p/m-Xylene	ND	20	22	110	20	22	110	0	70-130	20
o-Xylene	ND	20	22	110	20	22	110	0	70-130	20
cis-1,2-Dichloroethene	ND	10	11	110	10	11	110	0	70-130	20
Styrene	ND	20	22	110	20	22	110	0	70-130	20
Dichlorodifluoromethane	ND	10	6.4	64	10	6.6	66	3	36-147	20
Acetone	ND	10	7.1	71	10	6.8	68	4	58-148	20
Carbon disulfide	ND	10	11	110	10	11	110	0	51-130	20
2-Butanone	ND	10	6.8	68	10	6.2	62 Q	9	63-138	20
4-Methyl-2-pentanone	ND	10	6.2	62	10	6.3	63	2	59-130	20
2-Hexanone	ND	10	5.3	53 Q	10	5.6	56 Q	6	57-130	20
Bromochloromethane	ND	10	12	120	10	12	120	0	70-130	20
1,2-Dibromoethane	ND	10	9.9	99	10	9.7	97	2	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	9.1	91	10	9.2	92	1	41-144	20

Matrix Spike Sample Summary
Form 3
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2370783-04	**Analysis Date**	: 12/06/23 13:25
Matrix Spike	: WG1860843-6	**MS Analysis Date**	: 12/06/23 19:08
Matrix Spike Dup	: WG1860843-7	**MSD Analysis Date**	: 12/06/23 19:33

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Isopropylbenzene	ND	10	9.4	94		10	9.9	99		5	70-130	20
1,2,3-Trichlorobenzene	ND	10	8.6	86		10	9.1	91		6	70-130	20
1,2,4-Trichlorobenzene	ND	10	8.4	84		10	9.0	90		7	70-130	20
Methyl Acetate	ND	10	6.1	61	Q	10	6.6	66	Q	8	70-130	20
Cyclohexane	ND	10	7.1J	71		10	7.8J	78		9	70-130	20
1,4-Dioxane	ND	500	530	106		500	540	108		2	56-162	20
Freon-113	ND	10	11	110		10	12	120		9	70-130	20
Methyl cyclohexane	ND	10	8.7J	87		10	9.5J	95		9	70-130	20

Method Blank Summary
Form 4
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1860843-5	**Lab File ID**	: VE231206B05
Instrument ID	: ELAINE		
Matrix	: WATER	**Analysis Date**	: 12/06/23 10:58

Client Sample No.	Lab Sample ID	Analysis Date
WG1860843-3LCS	WG1860843-3	12/06/23 09:45
WG1860843-4LCSD	WG1860843-4	12/06/23 10:09
MW-1S	L2370783-01	12/06/23 11:22
MW-2S	L2370783-02	12/06/23 11:47
MW-3S	L2370783-03	12/06/23 13:01
MW-4D	L2370783-04	12/06/23 13:25
MW-5S	L2370783-05	12/06/23 13:50
MW-6D	L2370783-06	12/06/23 14:14
MW-7S	L2370783-07	12/06/23 14:39
MW-8S	L2370783-08	12/06/23 15:03
DUP	L2370783-09	12/06/23 15:28
EB	L2370783-11	12/06/23 15:53
MW-4DMS	WG1860843-6	12/06/23 19:08
MW-4DMSD	WG1860843-7	12/06/23 19:33

Method Blank Summary
Form 4
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1861020-5	**Lab File ID**	: VE231207A05
Instrument ID	: ELAINE		
Matrix	: WATER	**Analysis Date**	: 12/07/23 08:09

Client Sample No.	Lab Sample ID	Analysis Date
WG1861020-3LCS	WG1861020-3	12/07/23 06:31
WG1861020-4LCSD	WG1861020-4	12/07/23 06:55
TRIP BLANK	L2370783-12	12/07/23 08:33

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

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ELAINE	**Analysis Date**	: 11/27/23 21:25
Tune Standard	: WG1857075-1	**Tune File ID**	: VE231127NBF3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22
75	30.0 - 80.0% of mass 95	48.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0% of mass 95	86.2
175	5.0 - 9.0% of mass 174	6 (7)1
176	Greater than 95.0% but less than 101% of mass	82.5 (95.7)1
177	5.0 - 9.0% of mass 176	5.2 (6.4)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1768500-1	VE231127P03	11/27/23 22:33
STD0.5PPB	R1768500-2	VE231127P05	11/27/23 23:22
STD2PPB	R1768500-3	VE231127P07	11/28/23 00:10
STD10PPB	R1768500-4	VE231127P09	11/28/23 01:00
STD30PPB	R1768500-5	VE231127P10	11/28/23 01:24
STD80PPB	R1768500-6	VE231127P11	11/28/23 01:49
STD120PPB	R1768500-8	VE231127P12	11/28/23 02:13
STD200PPB	R1768500-7	VE231127P13	11/28/23 02:38
ICV Quant Report	R1768500-9	VE231127P18	11/28/23 04:40

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

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ELAINE	**Analysis Date**	: 12/06/23 09:07
Tune Standard	: WG1860843-1	**Tune File ID**	: VE231206BBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	17.8
75	30.0 - 80.0% of mass 95	50.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0% of mass 95	87.6
175	5.0 - 9.0% of mass 174	6.6 (7.5)1
176	Greater than 95.0% but less than 101% of mass	85.1 (97.2)1
177	5.0 - 9.0% of mass 176	5.4 (6.3)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1860843-2CCAL	WG1860843-2	VE231206B02	12/06/23 09:45
WG1860843-3LCS	WG1860843-3	VE231206B02	12/06/23 09:45
WG1860843-4LCSD	WG1860843-4	VE231206B03	12/06/23 10:09
WG1860843-5BLANK	WG1860843-5	VE231206B05	12/06/23 10:58
MW-1S	L2370783-01	VE231206B06	12/06/23 11:22
MW-2S	L2370783-02	VE231206B07	12/06/23 11:47
MW-3S	L2370783-03	VE231206B10	12/06/23 13:01
MW-4D	L2370783-04	VE231206B11	12/06/23 13:25
MW-5S	L2370783-05	VE231206B12	12/06/23 13:50
MW-6D	L2370783-06	VE231206B13	12/06/23 14:14
MW-7S	L2370783-07	VE231206B14	12/06/23 14:39
MW-8S	L2370783-08	VE231206B15	12/06/23 15:03
DUP	L2370783-09	VE231206B16	12/06/23 15:28
EB	L2370783-11	VE231206B17	12/06/23 15:53
WG1860843-6MS	WG1860843-6	VE231206B25	12/06/23 19:08
WG1860843-7MSD	WG1860843-7	VE231206B26	12/06/23 19:33

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

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ELAINE	**Analysis Date**	: 12/07/23 06:13
Tune Standard	: WG1861020-1	**Tune File ID**	: VE231207ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 80.0% of mass 95	51.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0% of mass 95	84.3
175	5.0 - 9.0% of mass 174	6.3 (7.4)1
176	Greater than 95.0% but less than 101% of mass	80.2 (95.1)1
177	5.0 - 9.0% of mass 176	5.2 (6.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1861020-2CCAL	WG1861020-2	VE231207A01	12/07/23 06:31
WG1861020-3LCS	WG1861020-3	VE231207A01	12/07/23 06:31
WG1861020-4LCSD	WG1861020-4	VE231207A02	12/07/23 06:55
WG1861020-5BLANK	WG1861020-5	VE231207A05	12/07/23 08:09
TRIP BLANK	L2370783-12	VE231207A06	12/07/23 08:33

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ELAINE	**Analysis Date**	: 12/06/23 09:45:00
Sample No	: WG1860843-2	**Lab File ID**	: VE231206B02

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1860843-2	322183	6.13	290149	9.68	168478	12.36
Upper Limit	644366	6.63	580298	10.18	336956	12.86
Lower Limit	161092	5.63	145075	9.18	84239	11.86
Sample ID						
WG1860843-3 LCS	322183	6.13	290149	9.68	168478	12.36
WG1860843-4 LCSD	326875	6.13	296461	9.68	172783	12.36
WG1860843-5 BLANK	312100	6.13	286588	9.68	166011	12.36
MW-1S	298575	6.13	280978	9.68	164033	12.36
MW-2S	295180	6.13	273519	9.68	160179	12.36
MW-3S	274386	6.13	257076	9.68	150769	12.36
MW-4D	262583	6.13	251373	9.68	145182	12.36
MW-5S	256646	6.13	243853	9.68	141374	12.36
MW-6D	252368	6.13	238109	9.68	139791	12.36
MW-7S	254365	6.13	242944	9.68	137150	12.36
MW-8S	251474	6.13	236895	9.68	138642	12.36
DUP	248778	6.13	235247	9.68	135060	12.36
EB	244038	6.13	233130	9.68	133377	12.36
MW-4D MS	257219	6.13	234385	9.68	144658	12.36
MW-4D MSD	264500	6.13	241138	9.68	144490	12.36

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ELAINE	**Analysis Date**	: 12/07/23 06:31:00
Sample No	: WG1861020-2	**Lab File ID**	: VE231207A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1861020-2	294846	6.12	260022	9.68	151851	12.36
Upper Limit	589692	6.62	520044	10.18	303702	12.86
Lower Limit	147423	5.62	130011	9.18	75926	11.86
Sample ID						
WG1861020-3 LCS	294846	6.12	260022	9.68	151851	12.36
WG1861020-4 LCSD	280812	6.13	253579	9.68	148363	12.36
WG1861020-5 BLANK	259986	6.13	241893	9.68	138908	12.36
TRIP BLANK	253608	6.13	240507	9.68	135194	12.36

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

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

* Values outside of QC limits

Date Created: 03/15/23
Created By: Jason Hebert
File: PM14094-1
Page: 1

Volatile Organics - EPA 8260D (WATER)

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

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

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

Volatile Organics - EPA 8260D (WATER)

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

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

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Date Created: 03/15/23
Created By: Jason Hebert
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Page: 1

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

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

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

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

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

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

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Volatiles Sample Data

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 11:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE231206B06	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 11:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE231206B06	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 11:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE231206B06	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 11:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE231206B07	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 11:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE231206B07	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 11:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE231206B07	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B10	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B10	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B10	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B11	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	1.7	2.5	0.70	J
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B11	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:25
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B11	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B12	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B12	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B12	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B13	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B13	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:14
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B13	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B14	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B14	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:39
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B14	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 15:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B15	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 15:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B15	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 15:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B15	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-09	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 15:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B16	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-09	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 15:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B16	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-09	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 15:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B16	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-11	**Date Collected**	: 11/29/23 08:45
Client ID	: EB	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 15:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B17	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-11	**Date Collected**	: 11/29/23 08:45
Client ID	: EB	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 15:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B17	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-11	**Date Collected**	: 11/29/23 08:45
Client ID	: EB	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 15:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: RAW
Lab File ID	: VE231206B17	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-12	**Date Collected**	: 11/29/23 00:00
Client ID	: TRIP BLANK	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 08:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE231207A06	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-12	**Date Collected**	: 11/29/23 00:00
Client ID	: TRIP BLANK	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 08:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE231207A06	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-12	**Date Collected**	: 11/29/23 00:00
Client ID	: TRIP BLANK	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 08:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE231207A06	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1860843-5	**Date Collected**	: NA
Client ID	: WG1860843-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/06/23 10:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE231206B05	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1860843-5	**Date Collected**	: NA
Client ID	: WG1860843-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/06/23 10:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE231206B05	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1860843-5	**Date Collected**	: NA
Client ID	: WG1860843-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/06/23 10:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: PID
Lab File ID	: VE231206B05	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1861020-5	**Date Collected**	: NA
Client ID	: WG1861020-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/07/23 08:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE231207A05	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1861020-5	**Date Collected**	: NA
Client ID	: WG1861020-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/07/23 08:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE231207A05	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U

Results Summary
Form 1
Volatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1861020-5	**Date Collected**	: NA
Client ID	: WG1861020-5BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/07/23 08:09
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,8260D	**Analyst**	: MJV
Lab File ID	: VE231207A05	**Instrument ID**	: ELAINE
Sample Amount	: 10 ml	**GC Column**	: RTX-502.2
Level	: LOW	**%Solids**	: N/A
Extract Volume (MeOH)	: N/A	**Injection Volume**	: N/A

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B06.D
Acq On : 6 Dec 2023 11:22 am
Operator : ELAINE:PID
Sample : L2370783-01,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 12:29:21 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.129	96	298575	10.000 ug/L	0.00
Standard Area 1 = 322183			Recovery =	92.67%	
63) Chlorobenzene-d5	9.682	117	280978	10.000 ug/L	0.00
Standard Area 1 = 290149			Recovery =	96.84%	
84) 1,4-Dichlorobenzene-d4	12.361	152	164033	10.000 ug/L	0.00
Standard Area 1 = 168478			Recovery =	97.36%	
System Monitoring Compounds					
39) Dibromofluoromethane	5.308	113	80098	10.747 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.47%	
47) 1,2-Dichloroethane-d4	5.839	65	76430	9.080 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	90.80%	
64) Toluene-d8	7.831	98	309531	9.596 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.96%	
88) 4-Bromofluorobenzene	11.162	95	116933	9.423 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.23%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.480	85	55	N.D.	
3) Chloromethane	1.850	50	449	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.256	94	572	0.238 ug/L	87
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	3.046	76	1127	0.071 ug/L #	72
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.591	84	90	N.D.	
17) Acetone	3.630	43	919	0.618 ug/L #	89
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.666	43	147	N.D.	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	4.863	96	232	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	5.119	83	88	N.D.	
37) Carbon tetrachloride	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B06.D
Acq On : 6 Dec 2023 11:22 am
Operator : ELAINE:PID
Sample : L2370783-01,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 12:29:21 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0	N.D.			
42)	2-Butanone	0.000		0	N.D.			
45)	Benzene	5.706	78	2363	0.100	ug/L	#	73
48)	1,2-Dichloroethane	0.000		0	N.D.			
51)	Methyl cyclohexane	0.000		0	N.D.			
52)	Trichloroethene	0.000		0	N.D.			
55)	1,2-Dichloropropane	0.000		0	N.D.			
58)	Bromodichloromethane	0.000		0	N.D.			
61)	1,4-Dioxane	0.000		0	N.D.			
62)	cis-1,3-Dichloropropene	0.000		0	N.D.			
65)	Toluene	7.890	92	331	N.D.			
66)	4-Methyl-2-pentanone	0.000		0	N.D.			
67)	Tetrachloroethene	8.346	166	267	N.D.			
69)	trans-1,3-Dichloropropene	0.000		0	N.D.			
72)	1,1,2-Trichloroethane	0.000		0	N.D.			
73)	Chlorodibromomethane	0.000		0	N.D.			
75)	1,2-Dibromoethane	0.000		0	N.D.			
77)	2-Hexanone	9.145	43	59	N.D.			
78)	Chlorobenzene	9.698	112	113	N.D.			
79)	Ethylbenzene	9.737	91	1059	N.D.			
81)	p/m Xylene	9.929	106	896	0.076	ug/L		83
82)	o Xylene	10.458	106	176	N.D.			
83)	Styrene	10.533	104	389	N.D.			
85)	Bromoform	0.000		0	N.D.			
87)	Isopropylbenzene	10.842	105	574	N.D.			
92)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.			
105)	1,3-Dichlorobenzene	12.289	146	470	N.D.			
106)	1,4-Dichlorobenzene	12.372	146	863	N.D.			
109)	1,2-Dichlorobenzene	12.798	146	361	N.D.			
111)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
114)	1,2,4-Trichlorobenzene	14.200	180	636	0.075	ug/L	#	77
116)	1,2,3-Trichlorobenzene	14.662	180	449	N.D.			

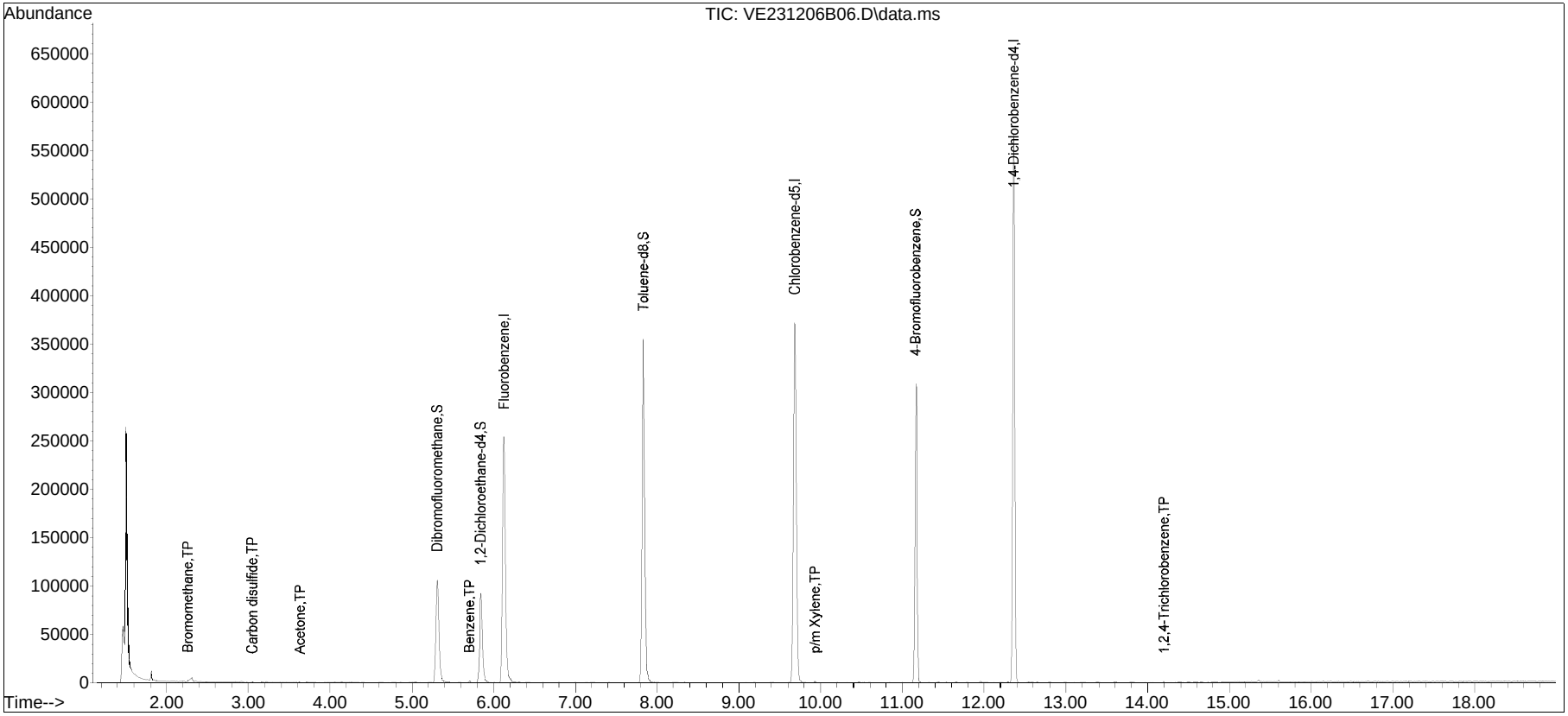
(#) = qualifier out of range (m) = manual integration (+) = signals summed

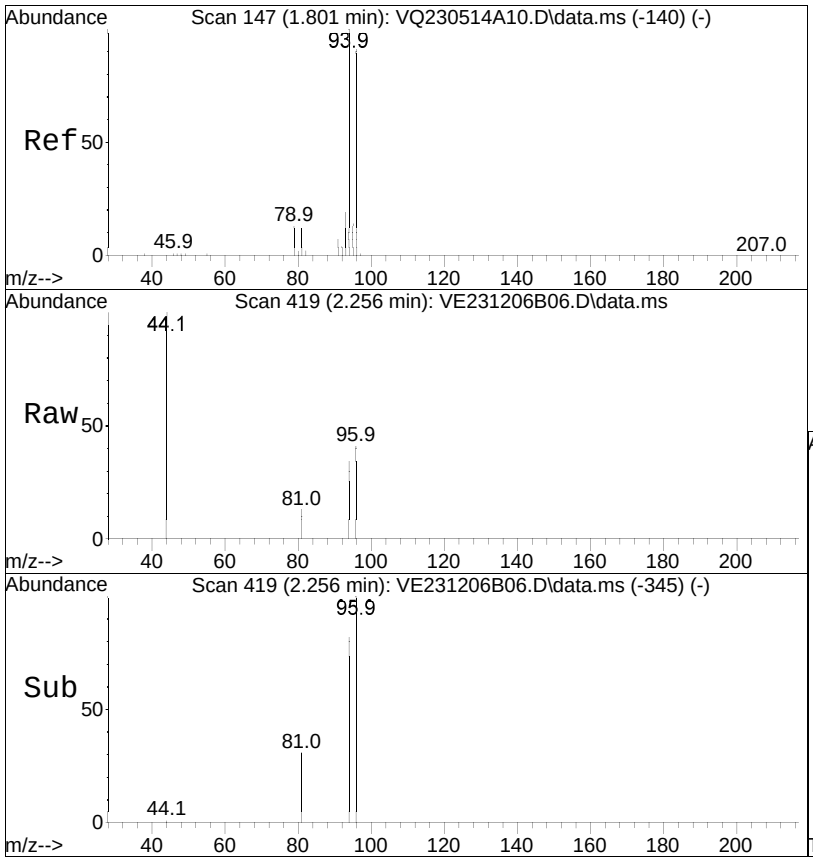
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B06.D
Acq On : 6 Dec 2023 11:22 am
Operator : ELAINE:PID
Sample : L2370783-01,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 12:29:21 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

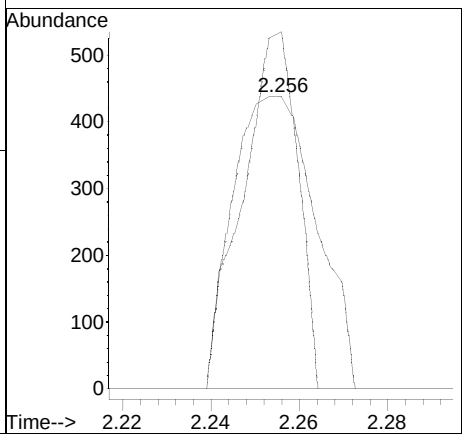


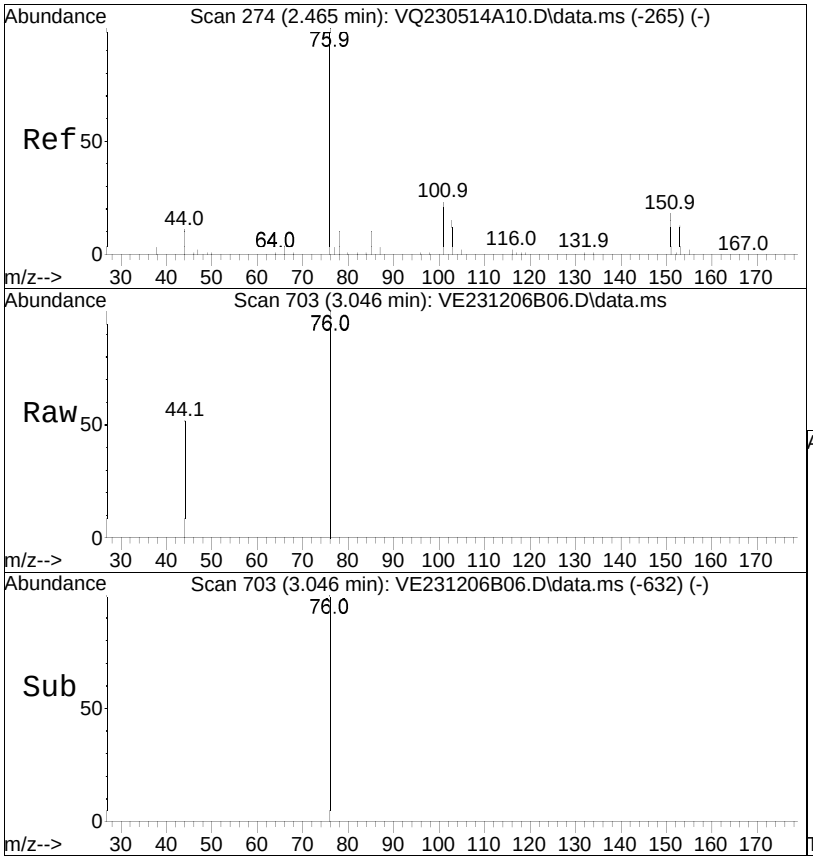


#5
Bromomethane
Concen: 0.24 ug/L
RT: 2.256 min Scan# 419
Delta R.T. 0.006 min
Lab File: VE231206B06.D
Acq: 6 Dec 2023 11:22 am

Tgt Ion: 94 Resp: 572

Ion	Ratio	Lower	Upper
94	100		
96	80.9	73.9	113.9

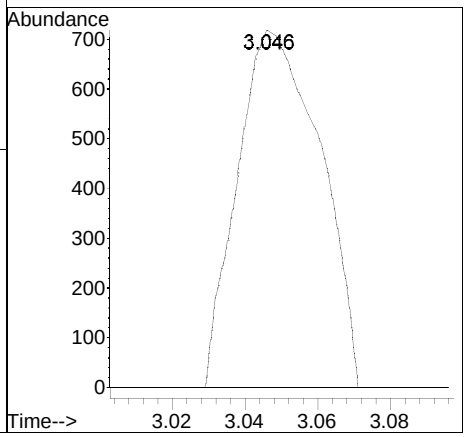


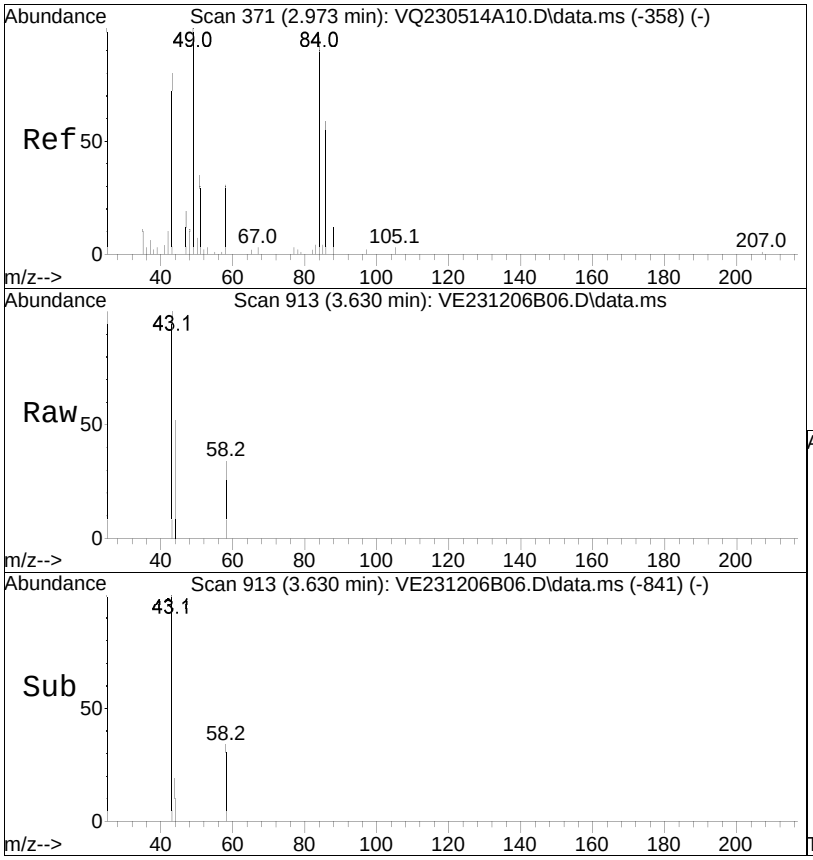


#11
Carbon disulfide
Concen: 0.07 ug/L
RT: 3.046 min Scan# 703
Delta R.T. -0.003 min
Lab File: VE231206B06.D
Acq: 6 Dec 2023 11:22 am

Tgt Ion: 76 Resp: 1127

Ion	Ratio	Lower	Upper
76	100		
78	0.0	6.8	14.0#

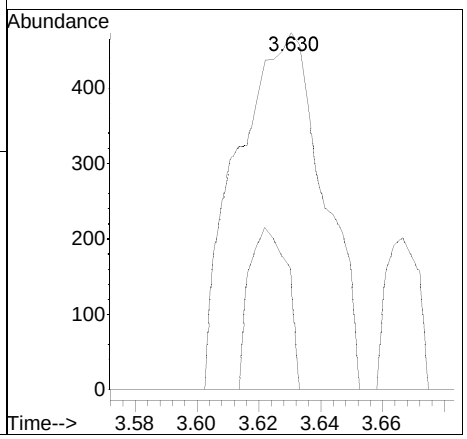


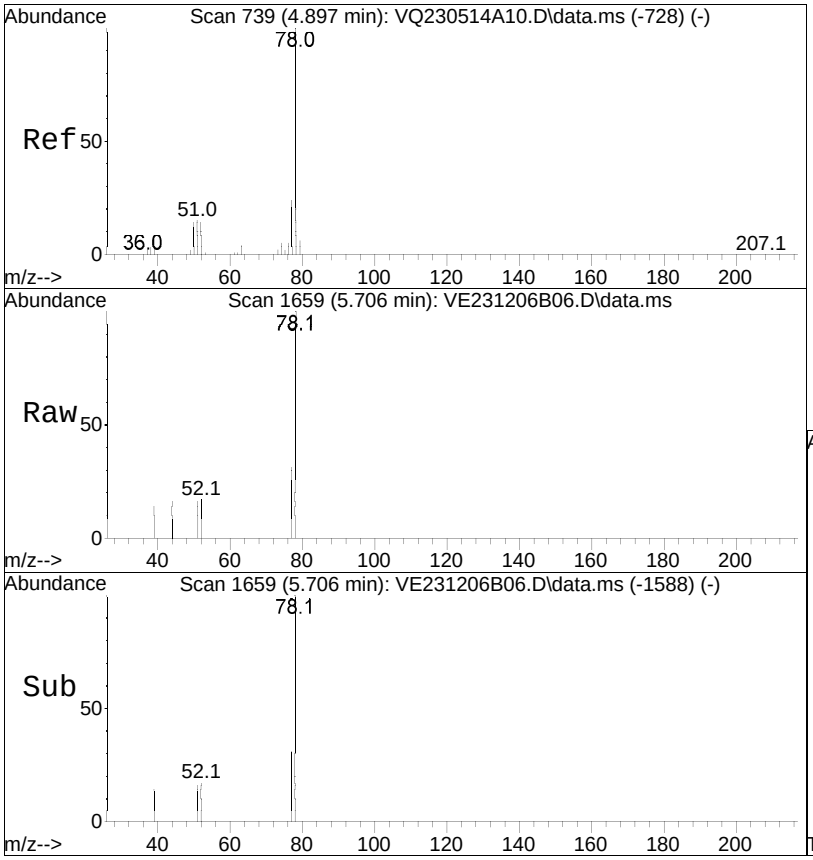


#17
Acetone
Concen: 0.62 ug/L
RT: 3.630 min Scan# 913
Delta R.T. 0.000 min
Lab File: VE231206B06.D
Acq: 6 Dec 2023 11:22 am

Tgt Ion: 43 Resp: 919

Ion	Ratio	Lower	Upper
43	100		
58	19.9	20.2	30.4#

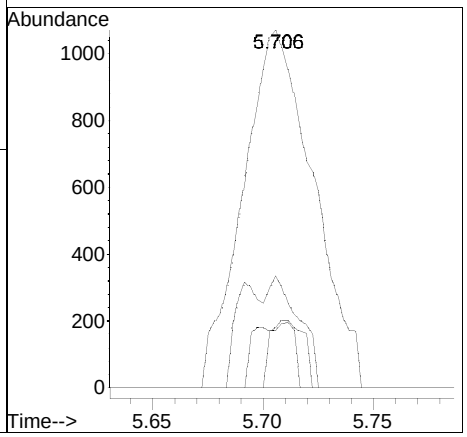


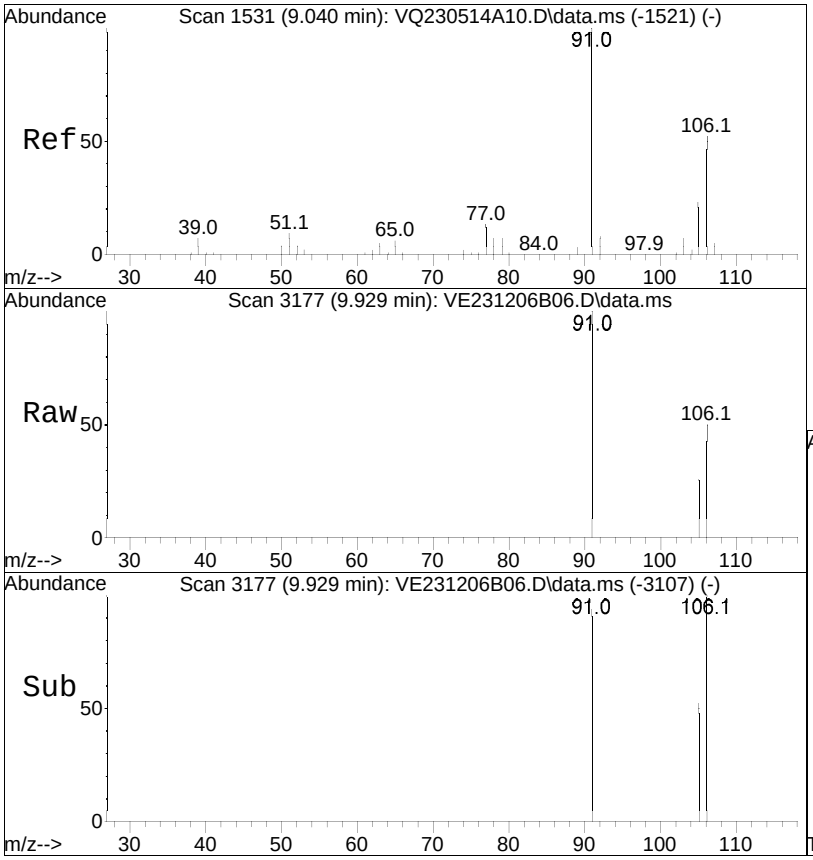


#45
Benzene
Concen: 0.10 ug/L
RT: 5.706 min Scan# 1659
Delta R.T. -0.003 min
Lab File: VE231206B06.D
Acq: 6 Dec 2023 11:22 am

Tgt Ion: 78 Resp: 2363

Ion	Ratio	Lower	Upper
78	100		
77	13.8	15.9	33.1#
51	0.0	12.3	25.5#
52	8.9	11.3	23.5#

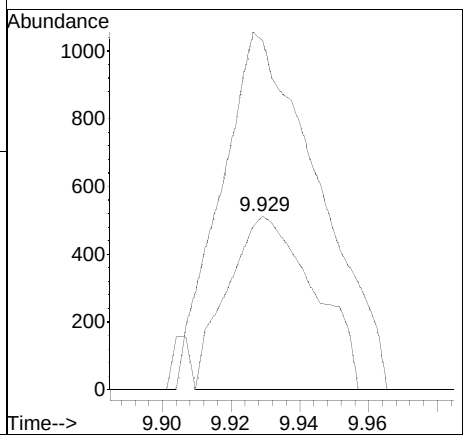


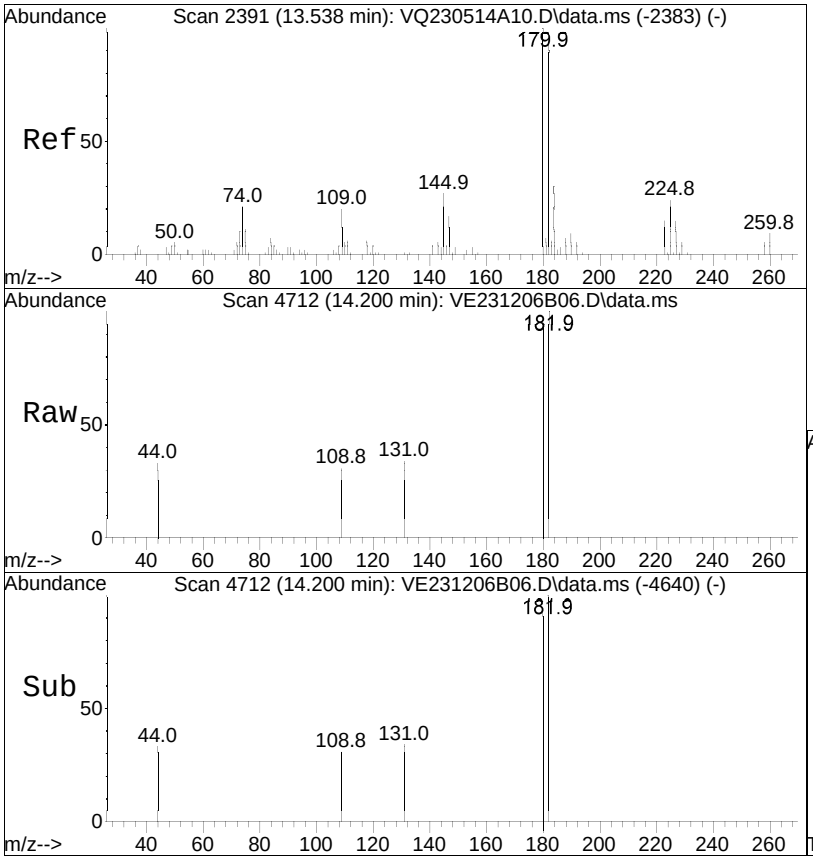


#81
p/m Xylene
Concen: 0.08 ug/L
RT: 9.929 min Scan# 3177
Delta R.T. -0.006 min
Lab File: VE231206B06.D
Acq: 6 Dec 2023 11:22 am

Tgt Ion:106 Resp: 896

Ion	Ratio	Lower	Upper
106	100		
91	233.3	165.5	248.3

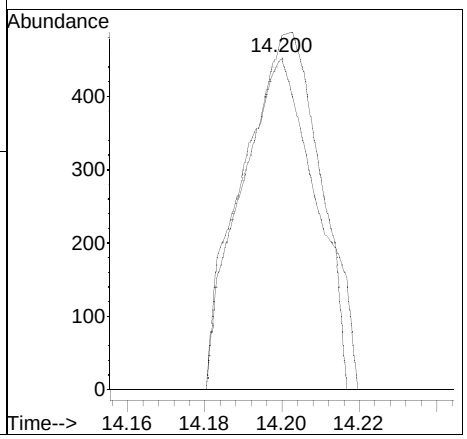




#114
1,2,4-Trichlorobenzene
Concen: 0.07 ug/L
RT: 14.200 min Scan# 4712
Delta R.T. -0.000 min
Lab File: VE231206B06.D
Acq: 6 Dec 2023 11:22 am

Tgt Ion:180 Resp: 636

Ion	Ratio	Lower	Upper
180	100		
182	103.0	76.0	114.0
145	0.0	28.4	42.6#



Manual Integration Report

Data Path	: K:\Elaine\2023\231206B\	QMethod	: Elaine_231127N_8260.m
Data File	: VE231206B06.D	Operator	: ELAINE:PID
Date Inj'd	: 12/6/2023 11:22 am	Instrument	: Elaine
Sample	: L2370783-01,31,10,10,,A	Quant Date	: 12/6/2023 12:29 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B07.D
Acq On : 6 Dec 2023 11:47 am
Operator : ELAINE:PID
Sample : L2370783-02,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 12:29:28 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.126	96	295180	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 91.62%			
63) Chlorobenzene-d5	9.684	117	273519	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 94.27%			
84) 1,4-Dichlorobenzene-d4	12.364	152	160179	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 95.07%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	78786	10.692	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.92%			
47) 1,2-Dichloroethane-d4	5.842	65	74679	8.974	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.74%			
64) Toluene-d8	7.832	98	302384	9.630	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.30%			
88) 4-Bromofluorobenzene	11.162	95	114370	9.438	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.38%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.477	85	312	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.253	94	251	0.106	ug/L	79
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.049	76	977	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.633	43	80	N.D.		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.633	43	80	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B07.D
Acq On : 6 Dec 2023 11:47 am
Operator : ELAINE:PID
Sample : L2370783-02,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 12:29:28 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0		N.D.	
42)	2-Butanone	0.000		0		N.D.	
45)	Benzene	0.000		0		N.D.	
48)	1,2-Dichloroethane	0.000		0		N.D.	
51)	Methyl cyclohexane	0.000		0		N.D.	
52)	Trichloroethene	0.000		0		N.D.	
55)	1,2-Dichloropropane	0.000		0		N.D.	
58)	Bromodichloromethane	0.000		0		N.D.	
61)	1,4-Dioxane	0.000		0		N.D.	
62)	cis-1,3-Dichloropropene	0.000		0		N.D.	
65)	Toluene	0.000		0		N.D.	
66)	4-Methyl-2-pentanone	0.000		0		N.D.	
67)	Tetrachloroethene	0.000		0		N.D.	
69)	trans-1,3-Dichloropropene	0.000		0		N.D.	
72)	1,1,2-Trichloroethane	0.000		0		N.D.	
73)	Chlorodibromomethane	0.000		0		N.D.	
75)	1,2-Dibromoethane	0.000		0		N.D.	
77)	2-Hexanone	0.000		0		N.D.	
78)	Chlorobenzene	0.000		0		N.D.	
79)	Ethylbenzene	9.737	91	225		N.D.	
81)	p/m Xylene	9.938	106	662		N.D.	
82)	o Xylene	10.472	106	119		N.D.	
83)	Styrene	10.528	104	160		N.D.	
85)	Bromoform	0.000		0		N.D.	
87)	Isopropylbenzene	0.000		0		N.D.	
92)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
105)	1,3-Dichlorobenzene	12.286	146	504		N.D.	
106)	1,4-Dichlorobenzene	12.378	146	709		N.D.	
109)	1,2-Dichlorobenzene	12.801	146	299		N.D.	
111)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
114)	1,2,4-Trichlorobenzene	14.203	180	413		N.D.	
116)	1,2,3-Trichlorobenzene	14.665	180	348		N.D.	

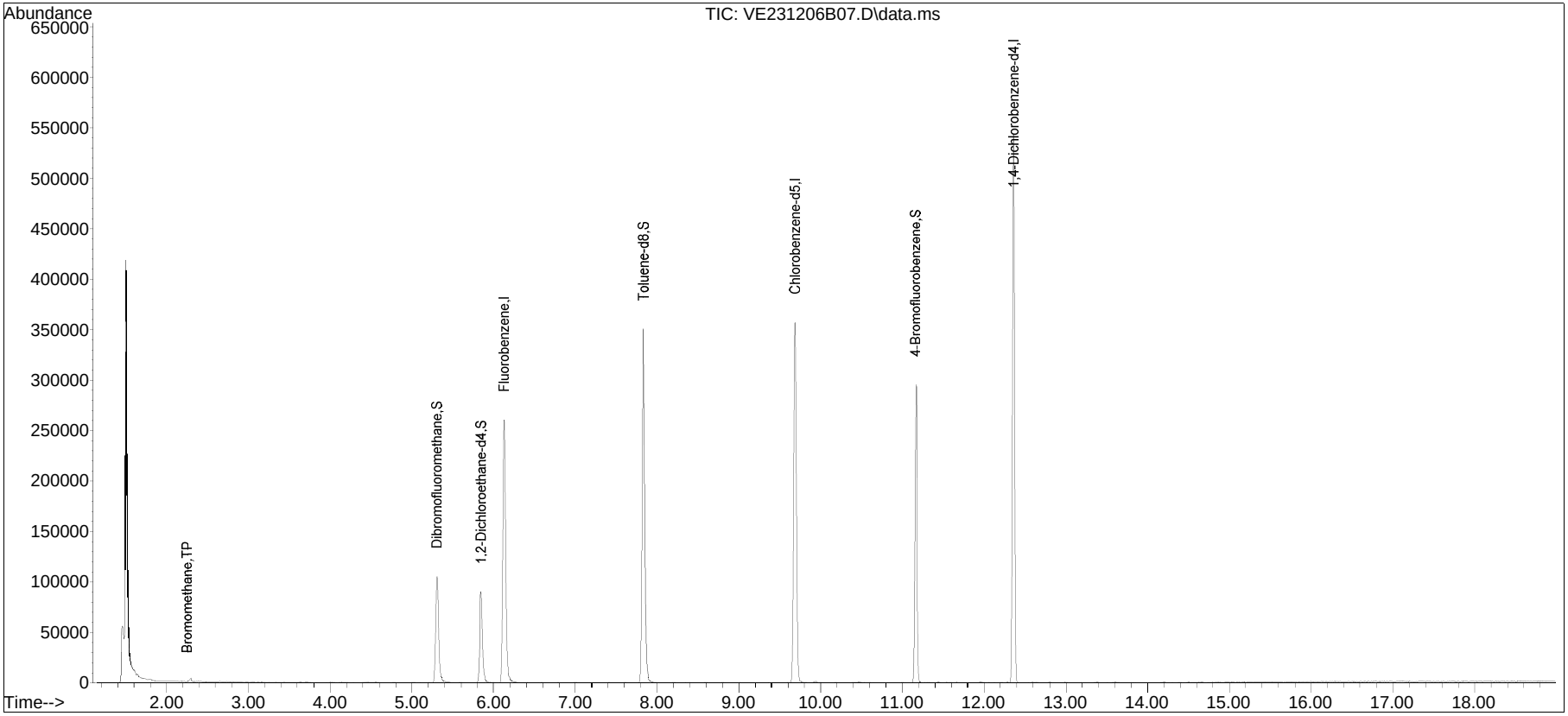
(#) = qualifier out of range (m) = manual integration (+) = signals summed

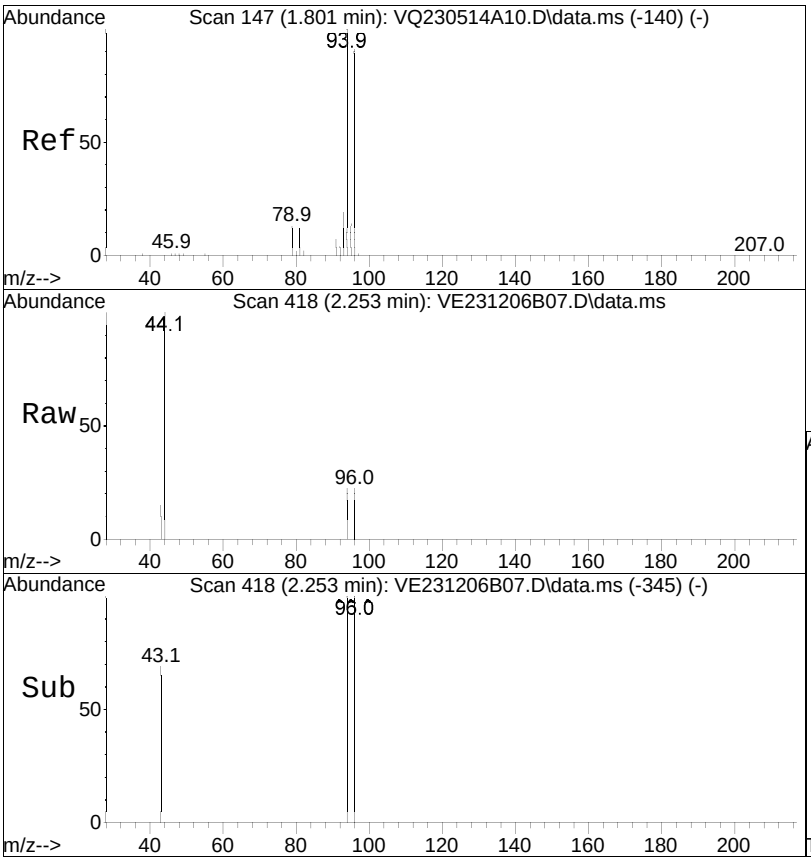
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B07.D
Acq On : 6 Dec 2023 11:47 am
Operator : ELAINE:PID
Sample : L2370783-02,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 12:29:28 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

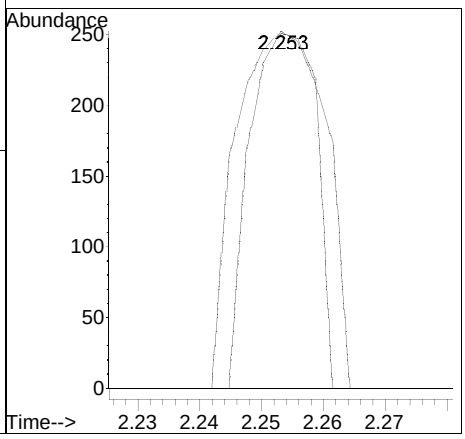




#5
Bromomethane
Concen: 0.11 ug/L
RT: 2.253 min Scan# 418
Delta R.T. 0.003 min
Lab File: VE231206B07.D
Acq: 6 Dec 2023 11:47 am

Tgt Ion: 94 Resp: 251

Ion	Ratio	Lower	Upper
94	100		
96	74.1	73.9	113.9



Manual Integration Report

Data Path	: K:\Elaine\2023\231206B\	QMethod	: Elaine_231127N_8260.m
Data File	: VE231206B07.D	Operator	: ELAINE:PID
Date Inj'd	: 12/6/2023 11:47 am	Instrument	: Elaine
Sample	: L2370783-02,31,10,10,,A	Quant Date	: 12/6/2023 12:29 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B10.D
Acq On : 6 Dec 2023 1:01 pm
Operator : ELAINE:RAW
Sample : L2370783-03,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 14:03:32 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	274386	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 85.16%			
63) Chlorobenzene-d5	9.684	117	257076	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 88.60%			
84) 1,4-Dichlorobenzene-d4	12.364	152	150769	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 89.49%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.311	113	73493	10.730	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.30%			
47) 1,2-Dichloroethane-d4	5.842	65	73236	9.467	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.67%			
64) Toluene-d8	7.831	98	282934	9.587	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.87%			
88) 4-Bromofluorobenzene	11.162	95	105895	9.284	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.046	76	541	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.	d	
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B10.D
Acq On : 6 Dec 2023 1:01 pm
Operator : ELAINE:RAW
Sample : L2370783-03,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 14:03:32 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0	N.D.		
42) 2-Butanone	0.000		0	N.D.		
45) Benzene	0.000		0	N.D. d		
48) 1,2-Dichloroethane	0.000		0	N.D.		
51) Methyl cyclohexane	0.000		0	N.D.		
52) Trichloroethene	0.000		0	N.D. d		
55) 1,2-Dichloropropane	0.000		0	N.D.		
58) Bromodichloromethane	0.000		0	N.D.		
61) 1,4-Dioxane	0.000		0	N.D.		
62) cis-1,3-Dichloropropene	0.000		0	N.D.		
65) Toluene	7.887	92	1011	N.D.		
66) 4-Methyl-2-pentanone	0.000		0	N.D.		
67) Tetrachloroethene	0.000		0	N.D.		
69) trans-1,3-Dichloropropene	0.000		0	N.D.		
72) 1,1,2-Trichloroethane	0.000		0	N.D.		
73) Chlorodibromomethane	0.000		0	N.D.		
75) 1,2-Dibromoethane	0.000		0	N.D.		
77) 2-Hexanone	0.000		0	N.D.		
78) Chlorobenzene	0.000		0	N.D.		
79) Ethylbenzene	9.751	91	931	N.D.		
81) p/m Xylene	9.935	106	935	0.087	ug/L	90
82) o Xylene	0.000		0	N.D. d		
83) Styrene	0.000		0	N.D.		
85) Bromoform	0.000		0	N.D.		
87) Isopropylbenzene	0.000		0	N.D. d		
92) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105) 1,3-Dichlorobenzene	0.000		0	N.D. d		
106) 1,4-Dichlorobenzene	0.000		0	N.D. d		
109) 1,2-Dichlorobenzene	0.000		0	N.D. d		
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114) 1,2,4-Trichlorobenzene	0.000		0	N.D. d		
116) 1,2,3-Trichlorobenzene	0.000		0	N.D. d		

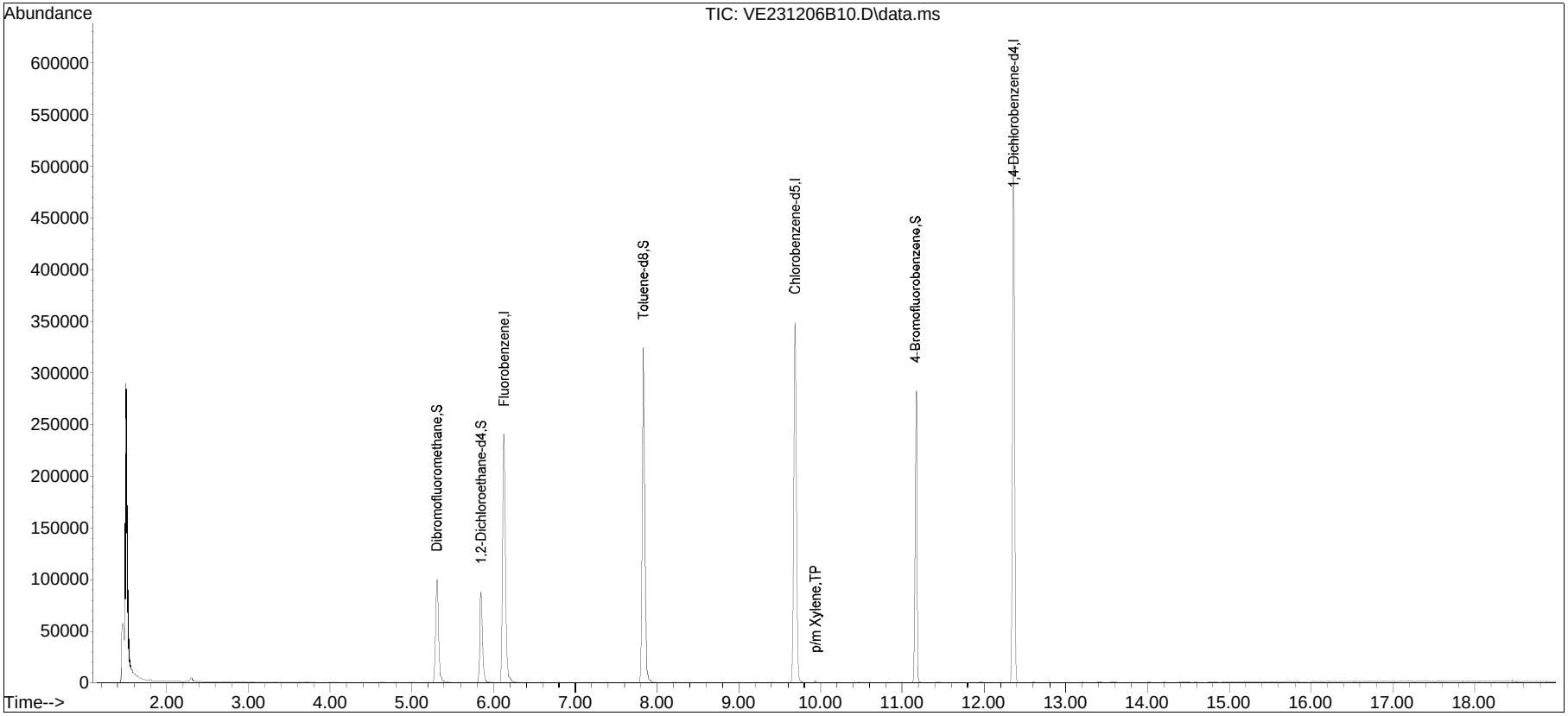
(#) = qualifier out of range (m) = manual integration (+) = signals summed

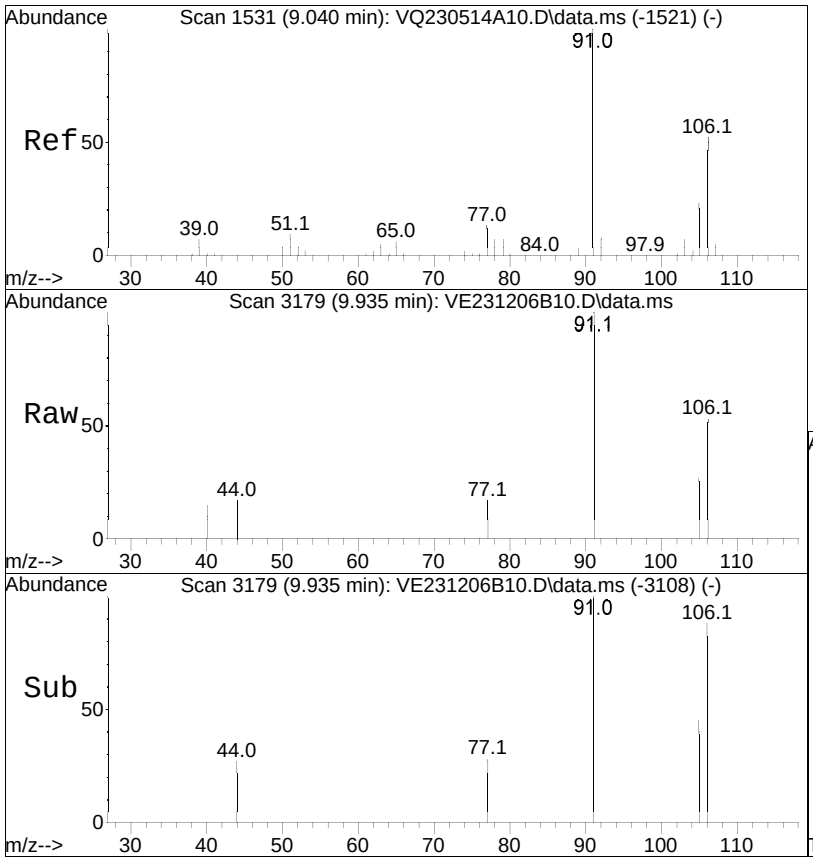
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B10.D
Acq On : 6 Dec 2023 1:01 pm
Operator : ELAINE:RAW
Sample : L2370783-03,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 14:03:32 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

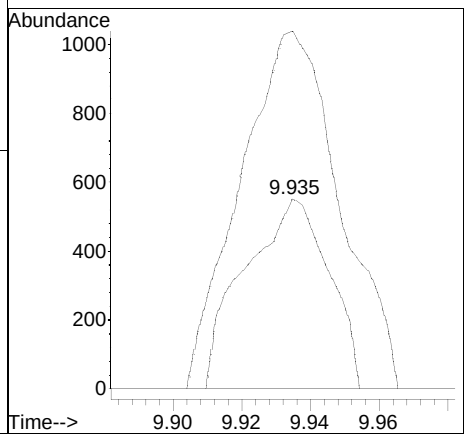




#81
p/m Xylene
Concen: 0.09 ug/L
RT: 9.935 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VE231206B10.D
Acq: 6 Dec 2023 1:01 pm

Tgt Ion:106 Resp: 935

Ion	Ratio	Lower	Upper
106	100		
91	222.6	165.5	248.3

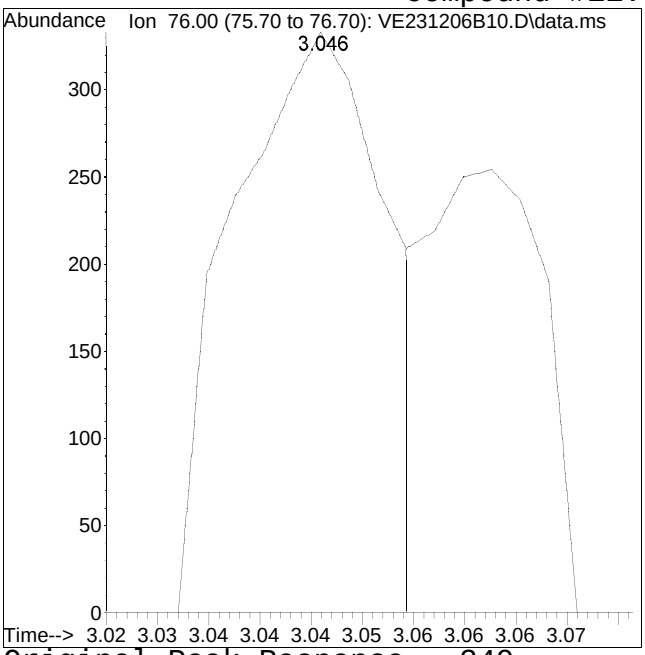


Manual Integration Report

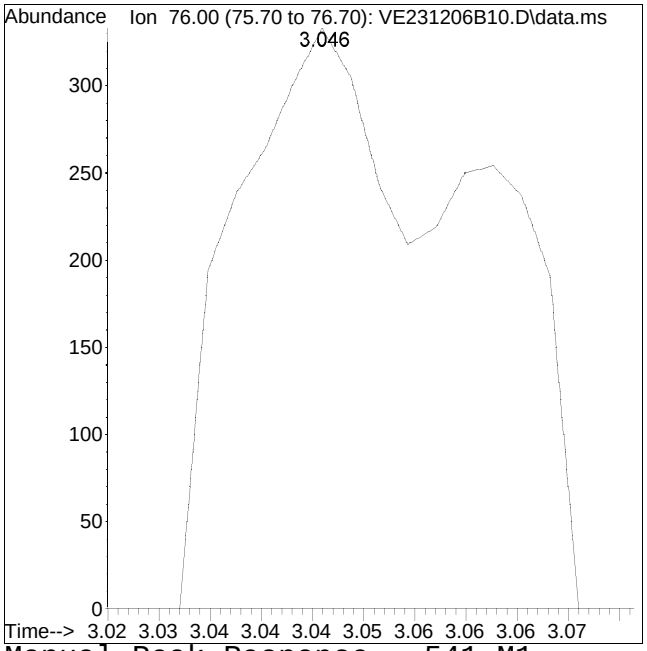
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B10.D
Date Inj'd : 12/6/2023 1:01 pm
Sample : L2370783-03,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 1:57 pm

Compound #11: Carbon disulfide



Original Peak Response = 349



Manual Peak Response = 541 M1

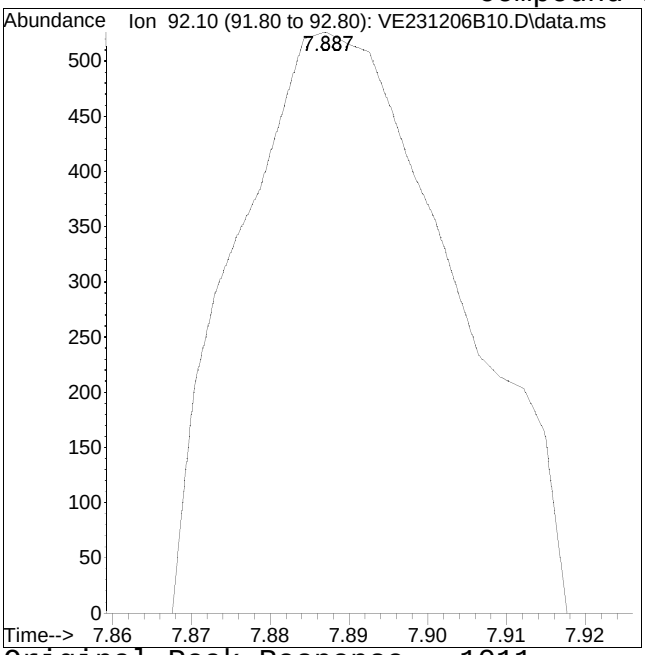
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

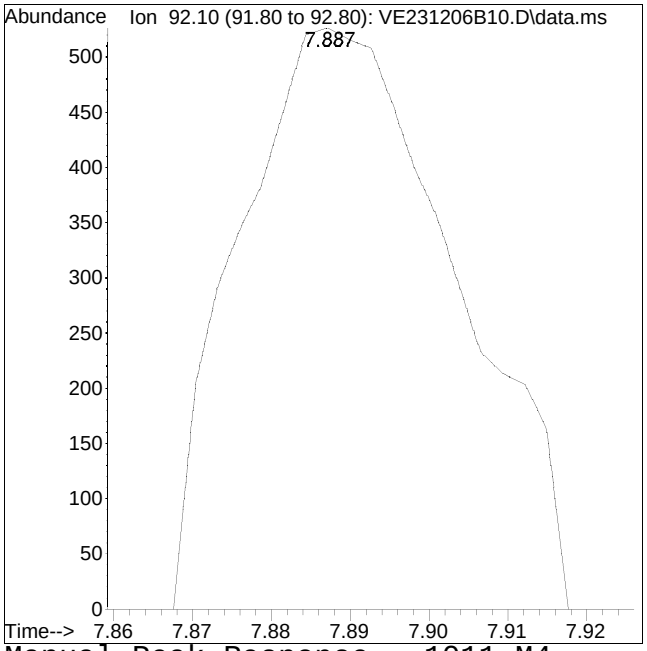
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B10.D
Date Inj'd : 12/6/2023 1:01 pm
Sample : L2370783-03,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 1:57 pm

Compound #65: Toluene



Original Peak Response = 1011



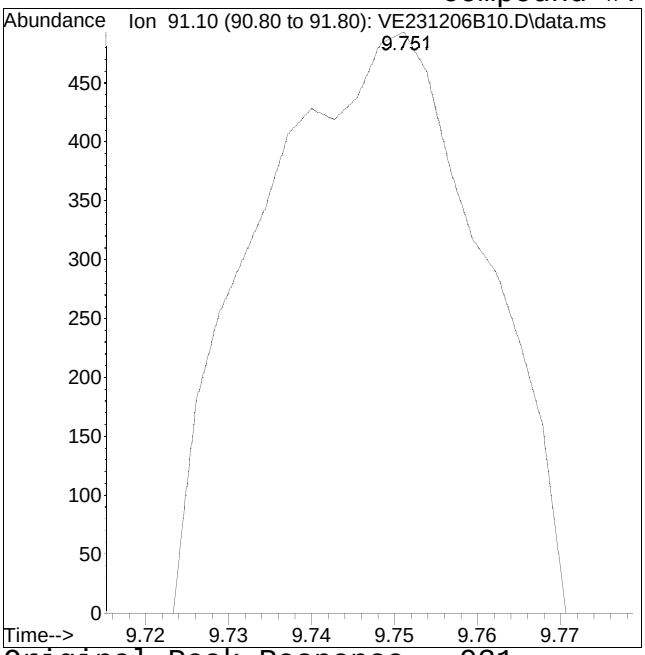
Manual Peak Response = 1011 M4

M4 = Poor automated baseline construction.

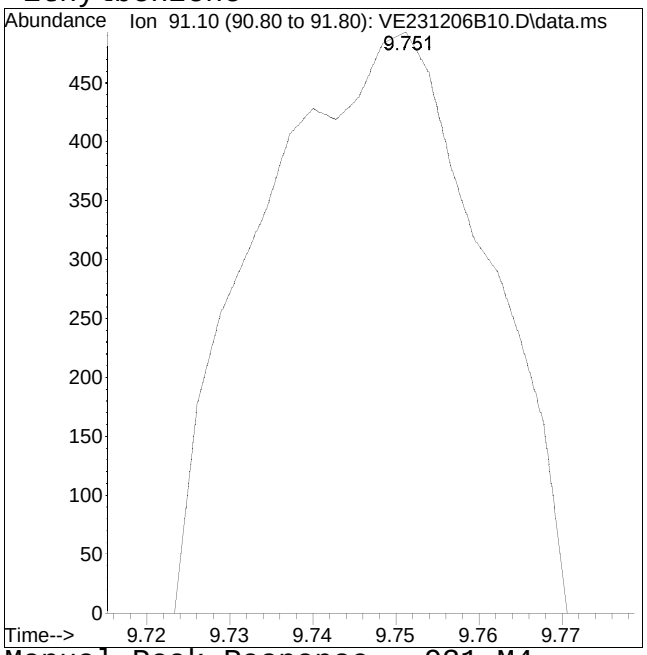
Manual Integration Report

Data Path : K:\Elaine\2023\231206B\ QMethod : Elaine_231127N_8260.m
Data File : VE231206B10.D Operator : ELAINE:RAW
Date Inj'd : 12/6/2023 1:01 pm Instrument : Elaine
Sample : L2370783-03,31,10,10,,A Quant Date : 12/6/2023 1:57 pm

Compound #79: Ethylbenzene



Original Peak Response = 931



Manual Peak Response = 931 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B11.D
Acq On : 6 Dec 2023 1:25 pm
Operator : ELAINE:RAW
Sample : L2370783-04,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 14:06:44 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	262583	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 81.50%			
63) Chlorobenzene-d5	9.684	117	251373	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 86.64%			
84) 1,4-Dichlorobenzene-d4	12.364	152	145182	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 86.17%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	73005	11.137	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.37%			
47) 1,2-Dichloroethane-d4	5.842	65	70919	9.580	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.80%			
64) Toluene-d8	7.831	98	275450	9.545	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.45%			
88) 4-Bromofluorobenzene	11.162	95	103795	9.450	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D. d		
3) Chloromethane	0.000		0	N.D. d		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.259	94	144	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.049	76	427	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	5.130	83	15189	1.709	ug/L	95
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B11.D
Acq On : 6 Dec 2023 1:25 pm
Operator : ELAINE:RAW
Sample : L2370783-04,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 14:06:44 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0	N.D.		
42)	2-Butanone	0.000		0	N.D.		
45)	Benzene	0.000		0	N.D.		
48)	1,2-Dichloroethane	0.000		0	N.D.		
51)	Methyl cyclohexane	0.000		0	N.D.		
52)	Trichloroethene	0.000		0	N.D.		
55)	1,2-Dichloropropane	0.000		0	N.D.		
58)	Bromodichloromethane	0.000		0	N.D.		
61)	1,4-Dioxane	0.000		0	N.D.		
62)	cis-1,3-Dichloropropene	0.000		0	N.D.		
65)	Toluene	7.887	92	257	N.D.		
66)	4-Methyl-2-pentanone	0.000		0	N.D.		
67)	Tetrachloroethene	0.000		0	N.D.		
69)	trans-1,3-Dichloropropene	0.000		0	N.D.		
72)	1,1,2-Trichloroethane	0.000		0	N.D.		
73)	Chlorodibromomethane	0.000		0	N.D.		
75)	1,2-Dibromoethane	0.000		0	N.D.		
77)	2-Hexanone	0.000		0	N.D.		
78)	Chlorobenzene	0.000		0	N.D.	d	
79)	Ethylbenzene	0.000		0	N.D.	d	
81)	p/m Xylene	9.935	106	562	N.D.		
82)	o Xylene	10.463	106	99	N.D.		
83)	Styrene	0.000		0	N.D.	d	
85)	Bromoform	0.000		0	N.D.		
87)	Isopropylbenzene	0.000		0	N.D.		
92)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105)	1,3-Dichlorobenzene	0.000		0	N.D.	d	
106)	1,4-Dichlorobenzene	0.000		0	N.D.	d	
109)	1,2-Dichlorobenzene	0.000		0	N.D.	d	
111)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114)	1,2,4-Trichlorobenzene	14.197	180	198	N.D.		
116)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

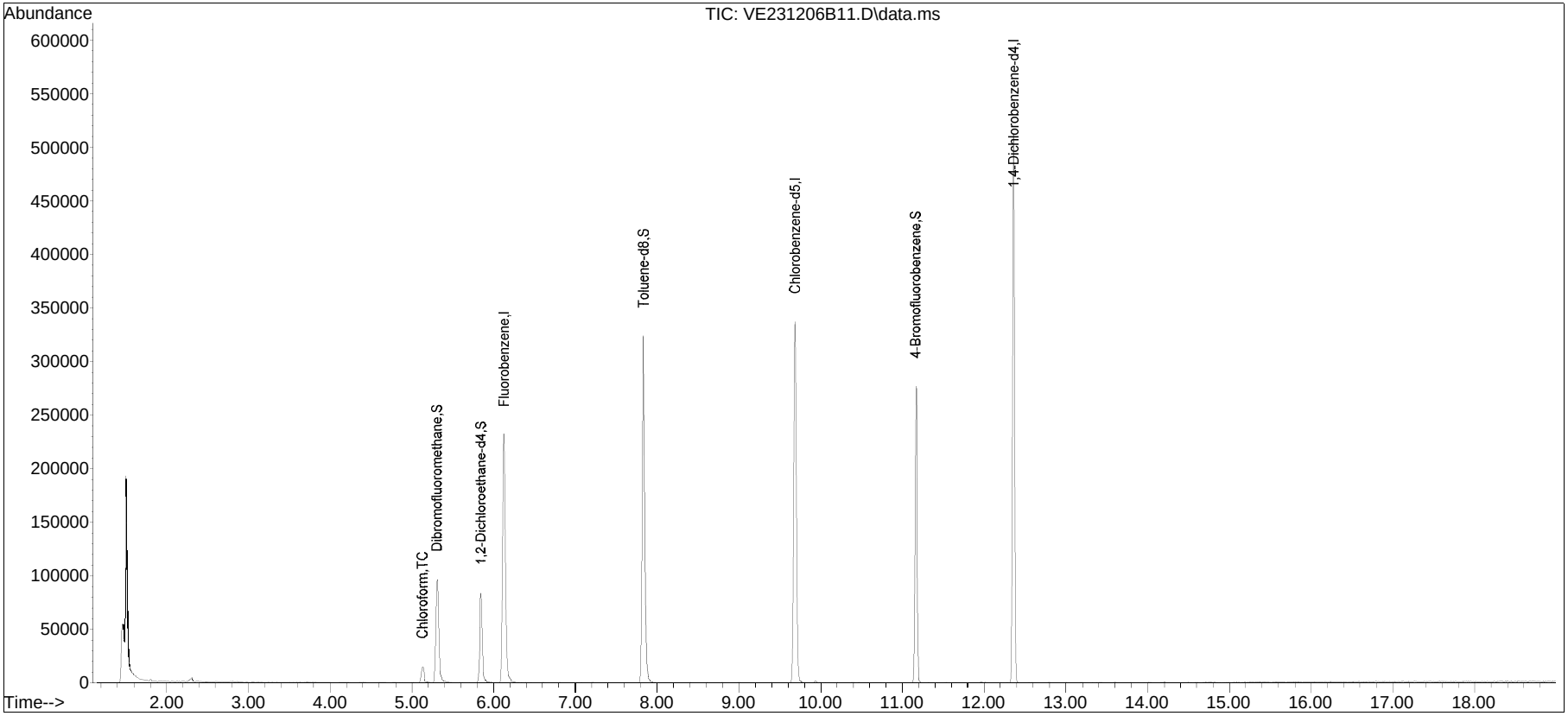
(#) = qualifier out of range (m) = manual integration (+) = signals summed

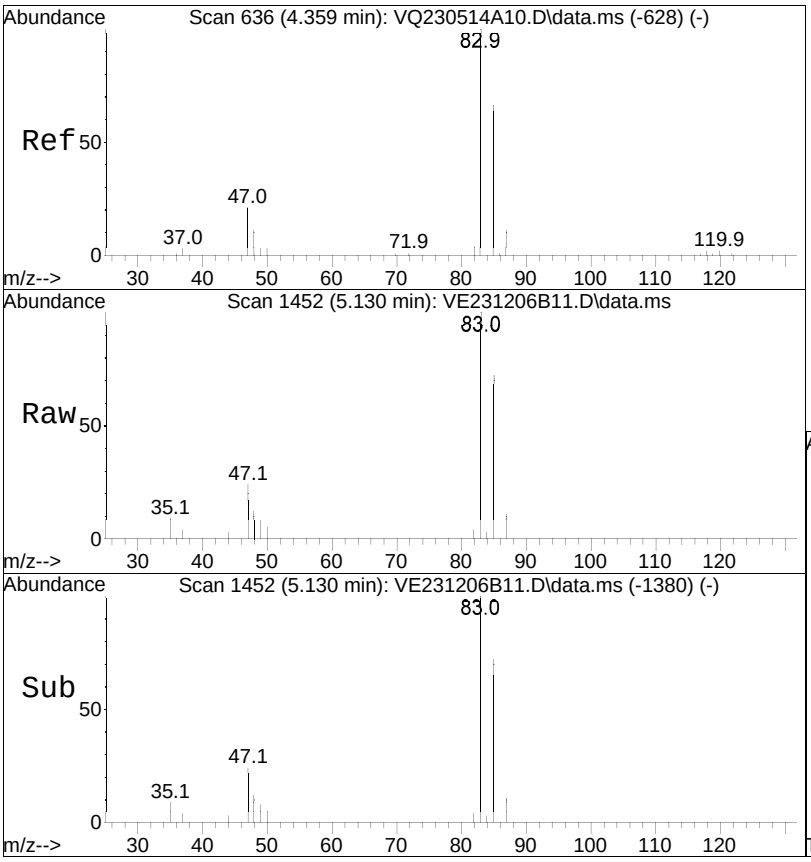
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B11.D
Acq On : 6 Dec 2023 1:25 pm
Operator : ELAINE:RAW
Sample : L2370783-04,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 14:06:44 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

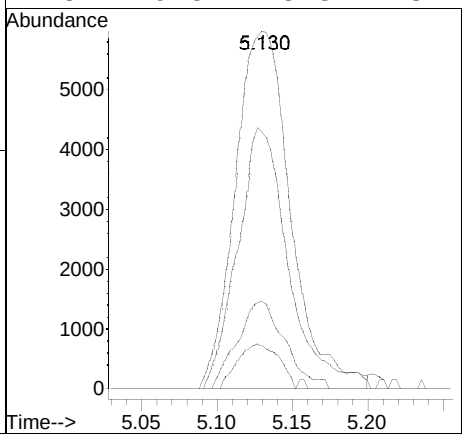




#35
Chloroform
Concen: 1.71 ug/L
RT: 5.130 min Scan# 1452
Delta R.T. -0.000 min
Lab File: VE231206B11.D
Acq: 6 Dec 2023 1:25 pm

Tgt Ion: 83 Resp: 15189

Ion	Ratio	Lower	Upper
83	100		
85	67.3	43.0	89.2
47	21.0	17.5	36.3
48	9.5	8.8	18.2

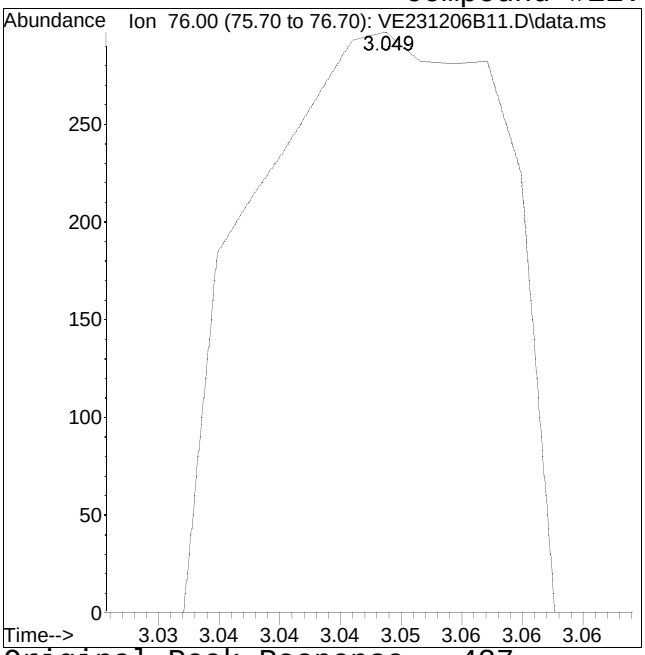


Manual Integration Report

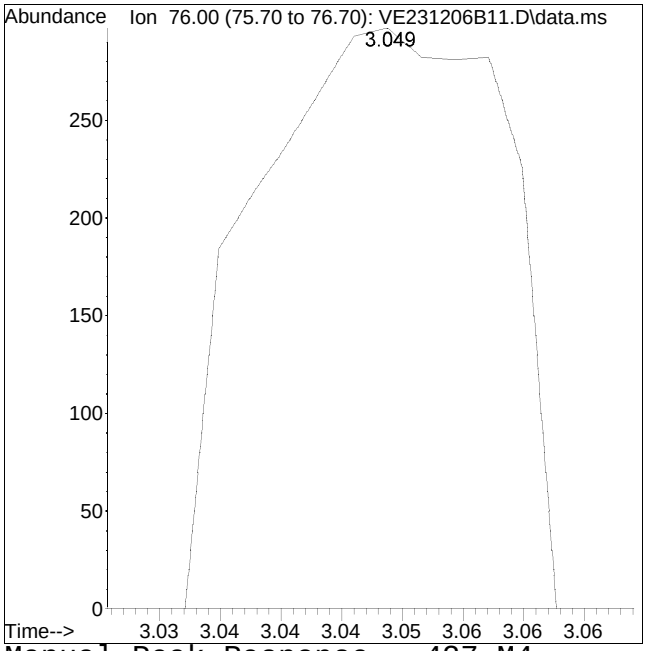
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B11.D
Date Inj'd : 12/6/2023 1:25 pm
Sample : L2370783-04,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 1:57 pm

Compound #11: Carbon disulfide



Original Peak Response = 427



Manual Peak Response = 427 M4

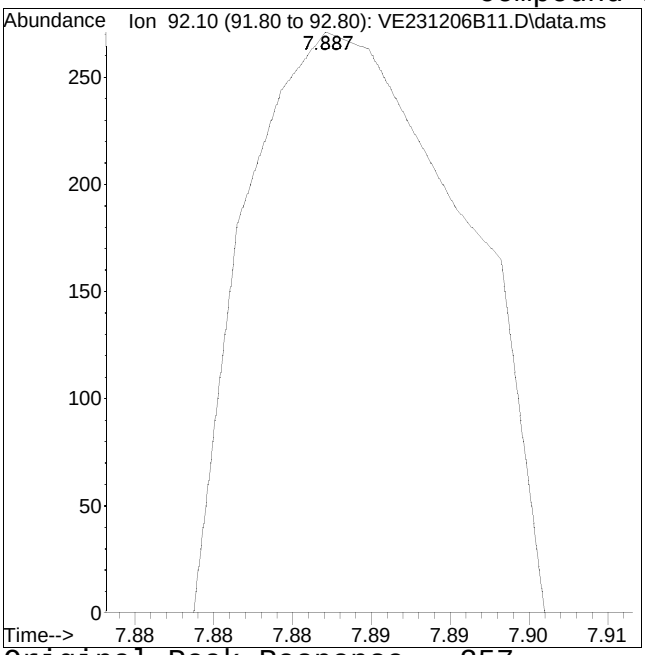
M4 = Poor automated baseline construction.

Manual Integration Report

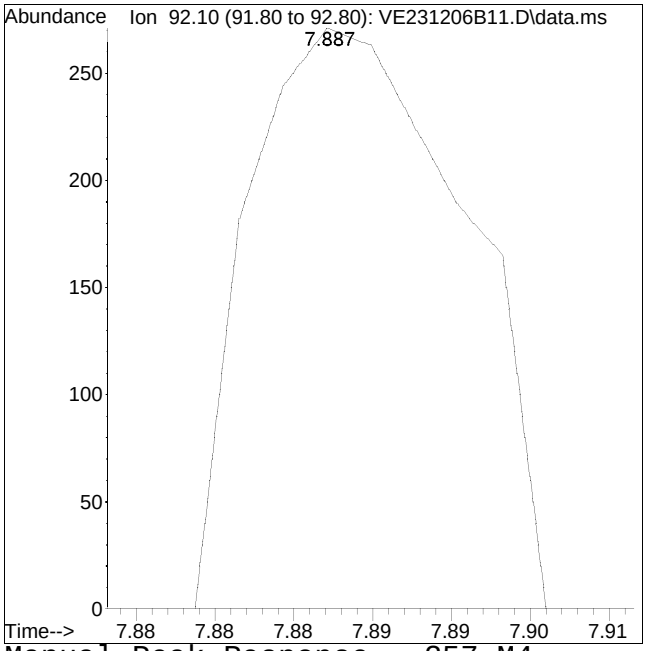
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B11.D
Date Inj'd : 12/6/2023 1:25 pm
Sample : L2370783-04,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 1:57 pm

Compound #65: Toluene



Original Peak Response = 257



Manual Peak Response = 257 M4

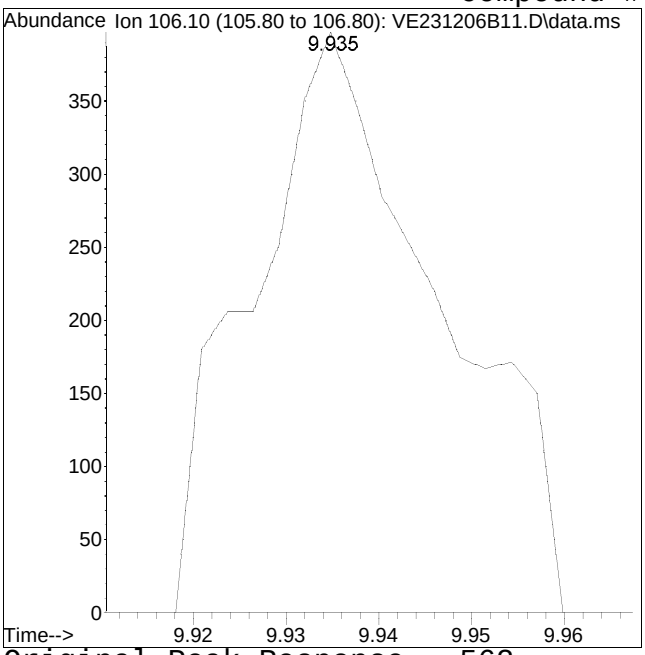
M4 = Poor automated baseline construction.

Manual Integration Report

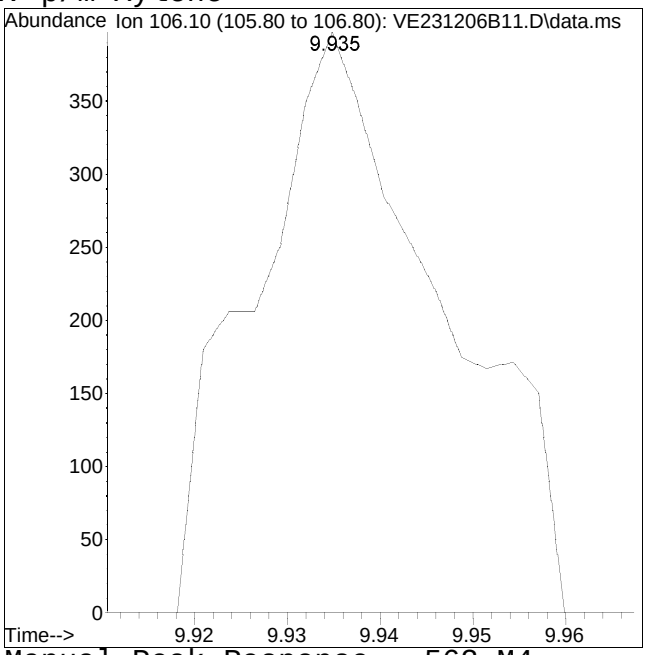
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B11.D
Date Inj'd : 12/6/2023 1:25 pm
Sample : L2370783-04,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 1:57 pm

Compound #81: p/m Xylene



Original Peak Response = 562



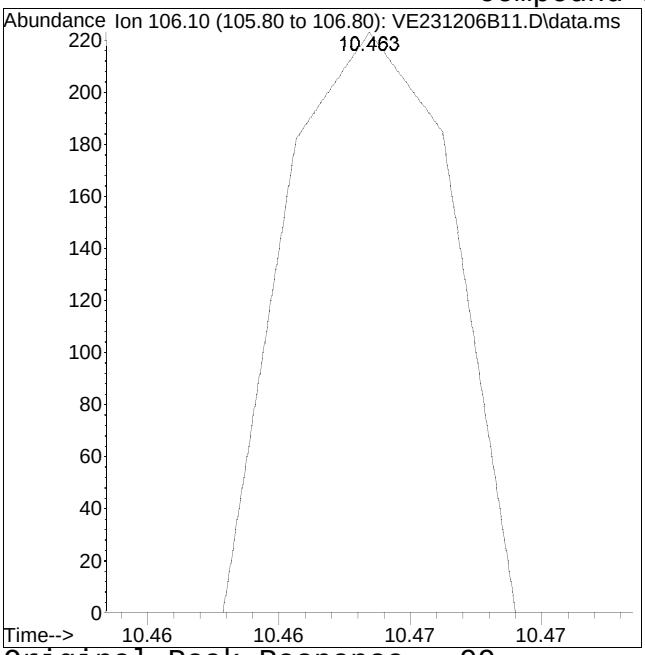
Manual Peak Response = 562 M4

M4 = Poor automated baseline construction.

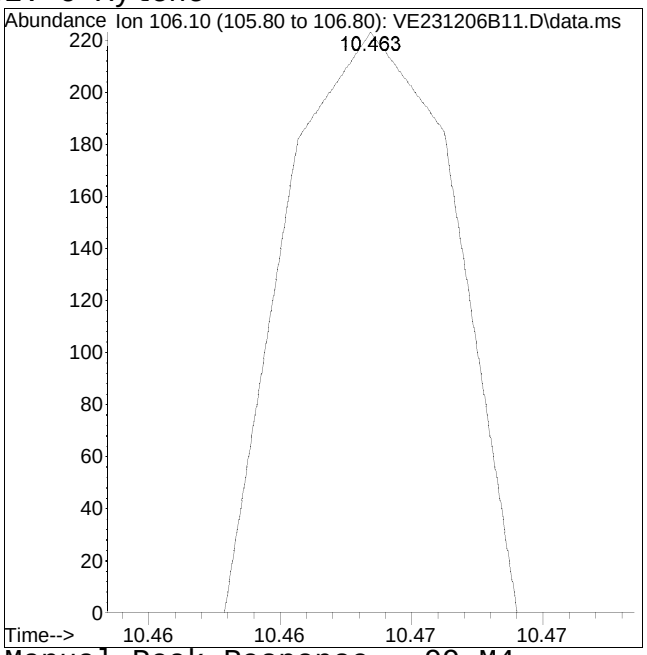
Manual Integration Report

Data Path : K:\Elaine\2023\231206B\ QMethod : Elaine_231127N_8260.m
Data File : VE231206B11.D Operator : ELAINE:RAW
Date Inj'd : 12/6/2023 1:25 pm Instrument : Elaine
Sample : L2370783-04,31,10,10,,A Quant Date : 12/6/2023 1:57 pm

Compound #82: o Xylene



Original Peak Response = 99



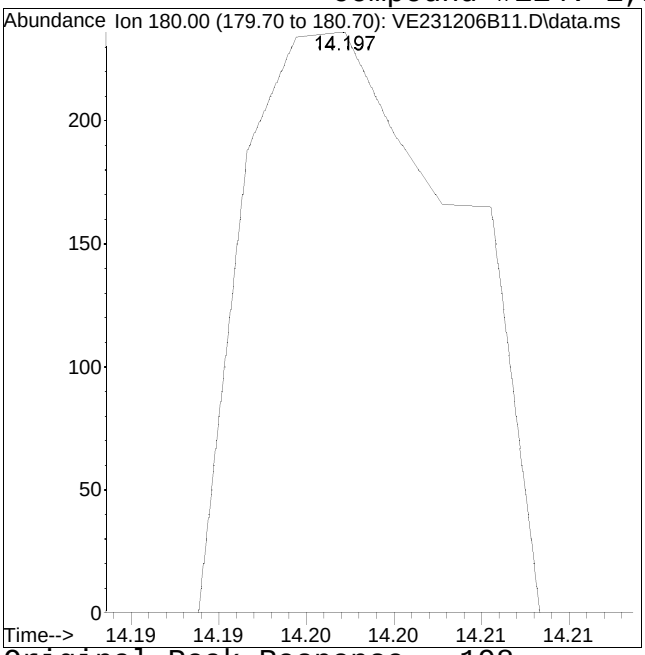
Manual Peak Response = 99 M4

M4 = Poor automated baseline construction.

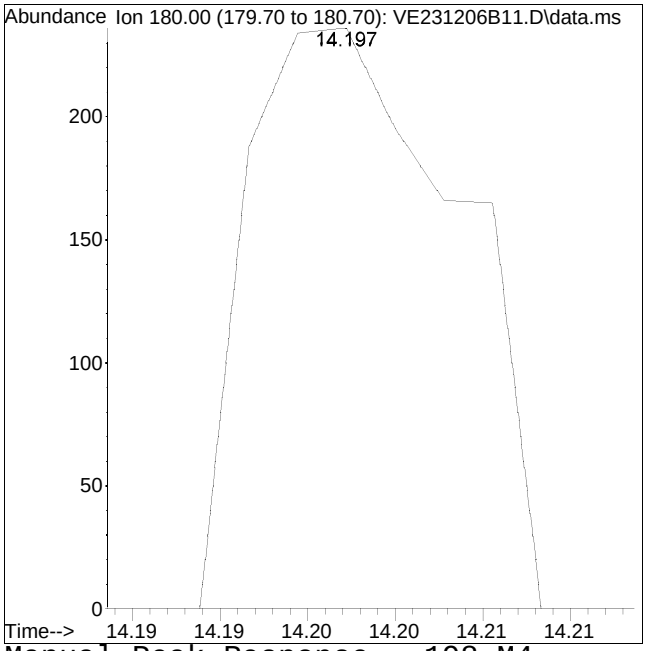
Manual Integration Report

Data Path : K:\Elaine\2023\231206B\ QMethod : Elaine_231127N_8260.m
Data File : VE231206B11.D Operator : ELAINE:RAW
Date Inj'd : 12/6/2023 1:25 pm Instrument : Elaine
Sample : L2370783-04,31,10,10,,A Quant Date : 12/6/2023 1:57 pm

Compound #114: 1,2,4-Trichlorobenzene



Original Peak Response = 198



Manual Peak Response = 198 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B12.D
Acq On : 6 Dec 2023 1:50 pm
Operator : ELAINE:RAW
Sample : L2370783-05,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 15:15:50 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	256646	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 79.66%			
63) Chlorobenzene-d5	9.684	117	243853	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 84.04%			
84) 1,4-Dichlorobenzene-d4	12.361	152	141374	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 83.91%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	71668	11.186	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.86%			
47) 1,2-Dichloroethane-d4	5.839	65	71690	9.908	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.08%			
64) Toluene-d8	7.831	98	271311	9.692	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.92%			
88) 4-Bromofluorobenzene	11.162	95	100970	9.441	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.41%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.054	76	462	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.	d	
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B12.D
Acq On : 6 Dec 2023 1:50 pm
Operator : ELAINE:RAW
Sample : L2370783-05,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 15:15:50 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0	N.D.		
42)	2-Butanone	0.000		0	N.D.		
45)	Benzene	0.000		0	N.D.		
48)	1,2-Dichloroethane	0.000		0	N.D.		
51)	Methyl cyclohexane	0.000		0	N.D.		
52)	Trichloroethene	0.000		0	N.D.		
55)	1,2-Dichloropropane	0.000		0	N.D.		
58)	Bromodichloromethane	0.000		0	N.D.		
61)	1,4-Dioxane	0.000		0	N.D.		
62)	cis-1,3-Dichloropropene	0.000		0	N.D.		
65)	Toluene	7.890	92	373	N.D.		
66)	4-Methyl-2-pentanone	0.000		0	N.D.		
67)	Tetrachloroethene	0.000		0	N.D.		
69)	trans-1,3-Dichloropropene	0.000		0	N.D.		
72)	1,1,2-Trichloroethane	0.000		0	N.D.		
73)	Chlorodibromomethane	0.000		0	N.D.		
75)	1,2-Dibromoethane	0.000		0	N.D.		
77)	2-Hexanone	0.000		0	N.D.		
78)	Chlorobenzene	0.000		0	N.D.		
79)	Ethylbenzene	0.000		0	N.D.		d
81)	p/m Xylene	9.924	106	450	N.D.		
82)	o Xylene	0.000		0	N.D.		
83)	Styrene	0.000		0	N.D.		
85)	Bromoform	0.000		0	N.D.		
87)	Isopropylbenzene	0.000		0	N.D.		
92)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105)	1,3-Dichlorobenzene	0.000		0	N.D.		d
106)	1,4-Dichlorobenzene	0.000		0	N.D.		d
109)	1,2-Dichlorobenzene	0.000		0	N.D.		d
111)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114)	1,2,4-Trichlorobenzene	14.197	180	230	N.D.		
116)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

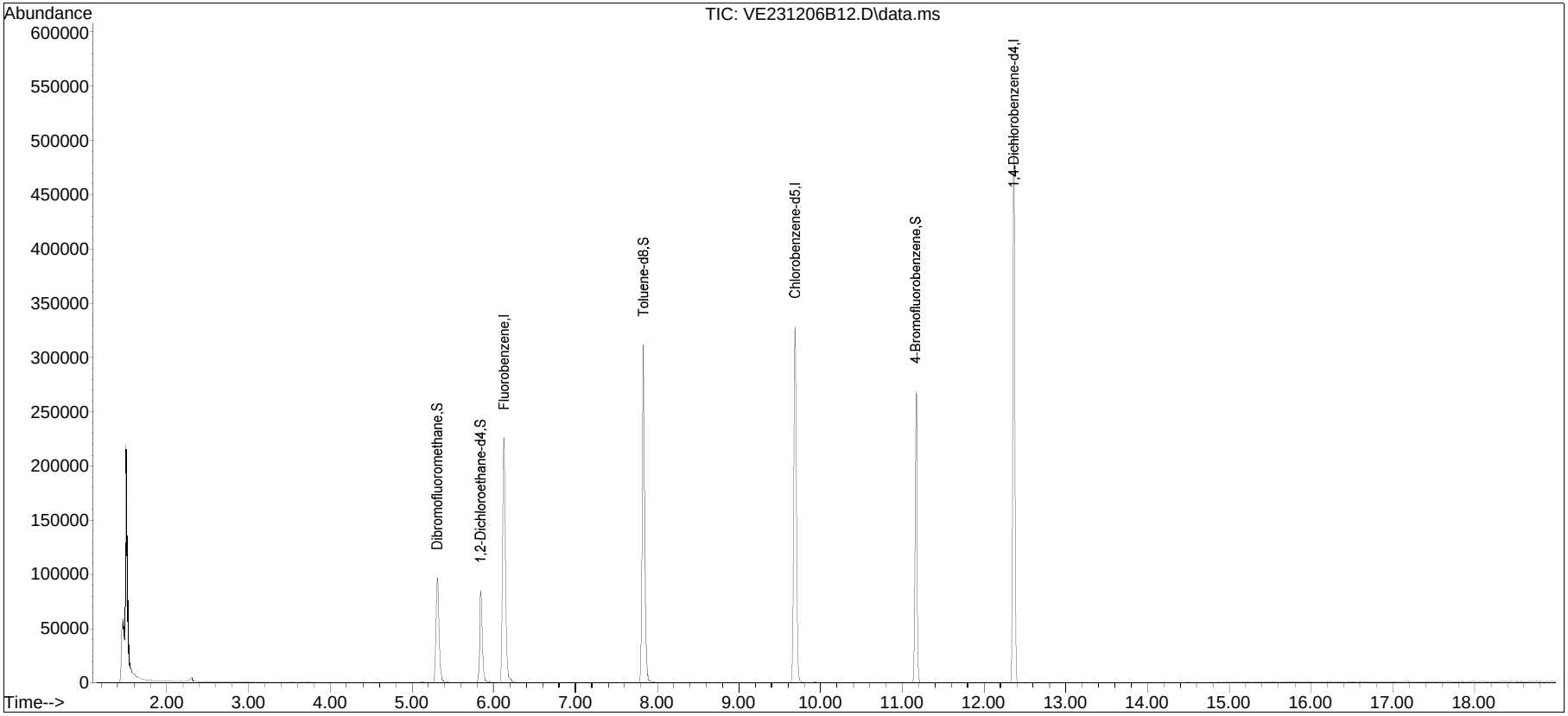
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B12.D
Acq On : 6 Dec 2023 1:50 pm
Operator : ELAINE:RAW
Sample : L2370783-05,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 15:15:50 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

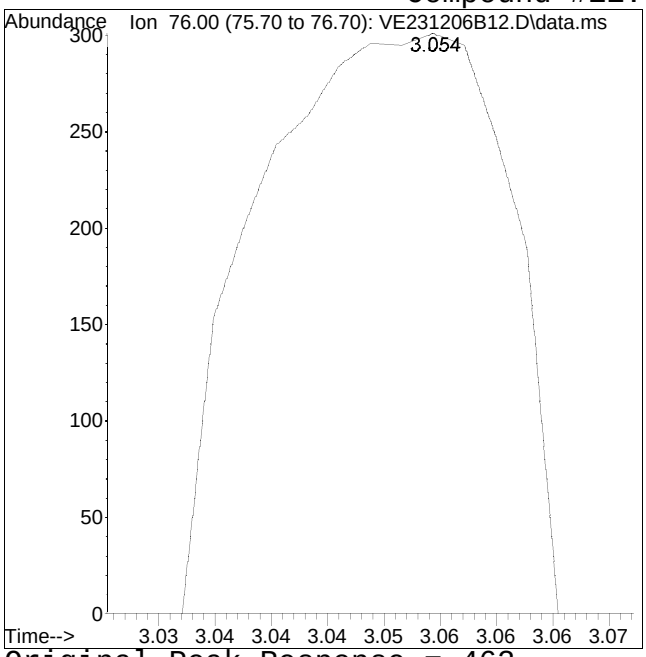
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•



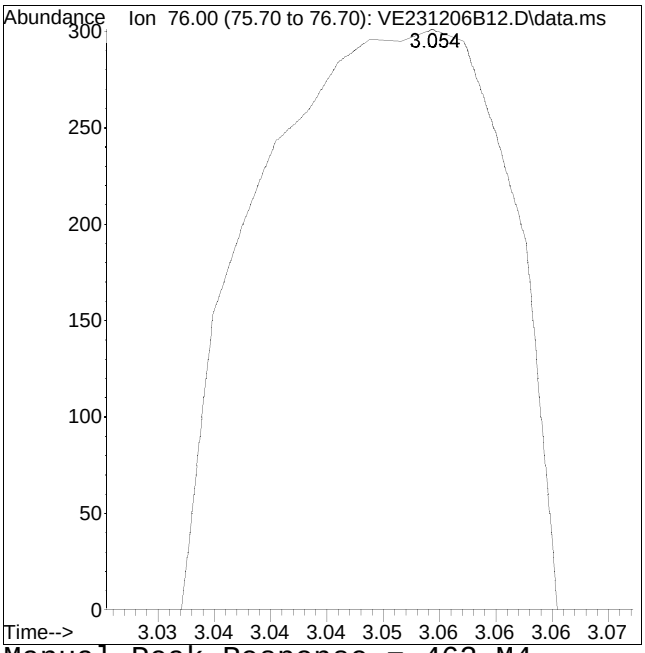
Manual Integration Report

Data Path	: K:\Elaine\2023\231206B\	QMethod	: Elaine_231127N_8260.m
Data File	: VE231206B12.D	Operator	: ELAINE:RAW
Date Inj'd	: 12/6/2023 1:50 pm	Instrument	: Elaine
Sample	: L2370783-05,31,10,10,,A	Quant Date	: 12/6/2023 3:10 pm

Compound #11: Carbon disulfide



Original Peak Response = 462



Manual Peak Response = 462 M4

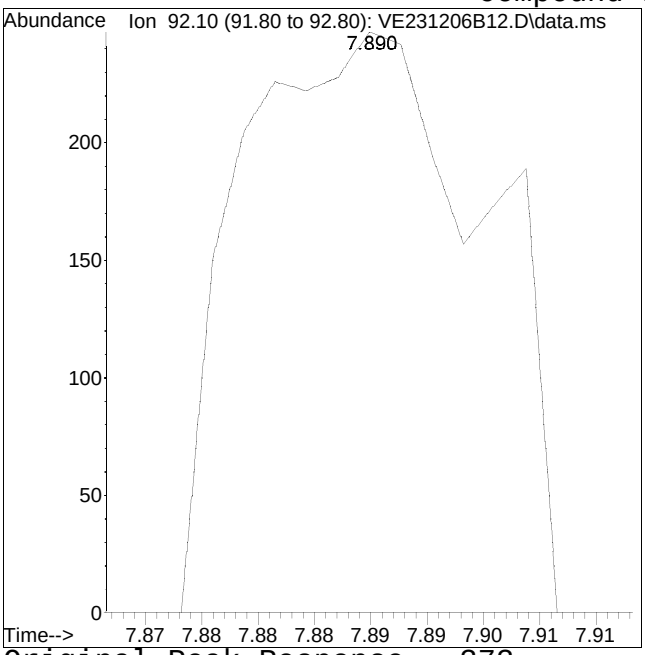
M4 = Poor automated baseline construction.

Manual Integration Report

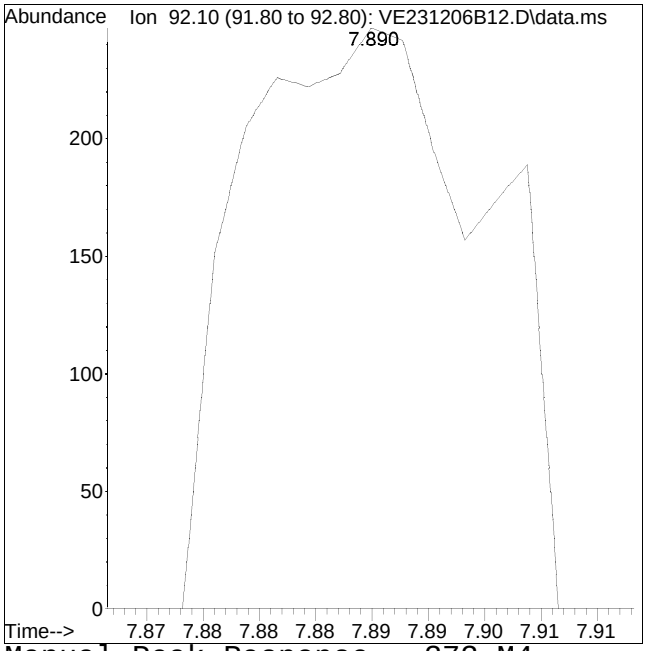
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B12.D
Date Inj'd : 12/6/2023 1:50 pm
Sample : L2370783-05,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 3:10 pm

Compound #65: Toluene



Original Peak Response = 373



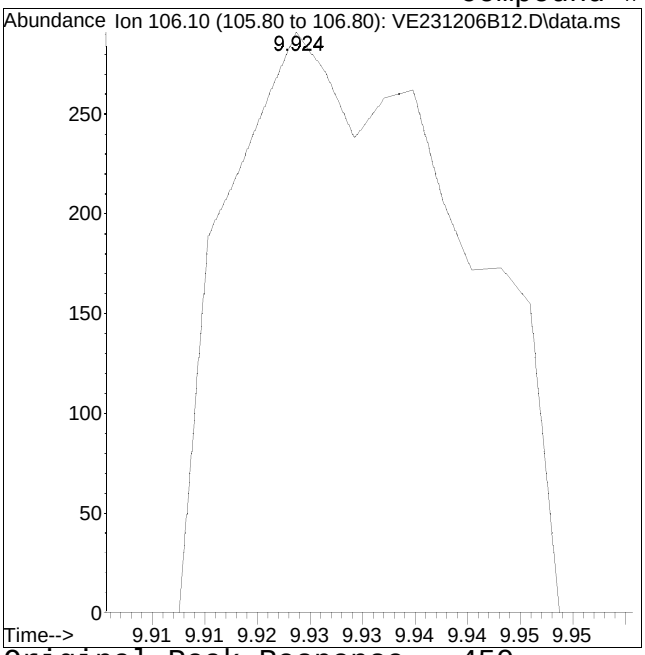
Manual Peak Response = 373 M4

M4 = Poor automated baseline construction.

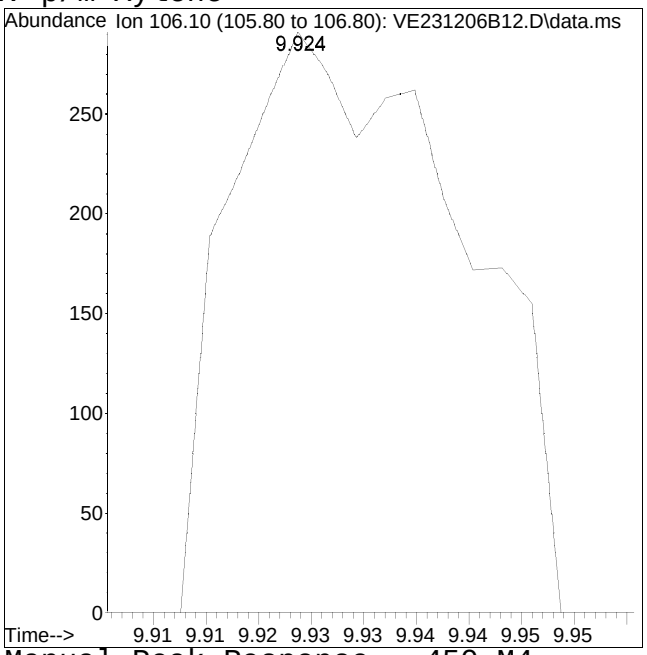
Manual Integration Report

Data Path : K:\Elaine\2023\231206B\ QMethod : Elaine_231127N_8260.m
Data File : VE231206B12.D Operator : ELAINE:RAW
Date Inj'd : 12/6/2023 1:50 pm Instrument : Elaine
Sample : L2370783-05,31,10,10,,A Quant Date : 12/6/2023 3:10 pm

Compound #81: p/m Xylene



Original Peak Response = 450



Manual Peak Response = 450 M4

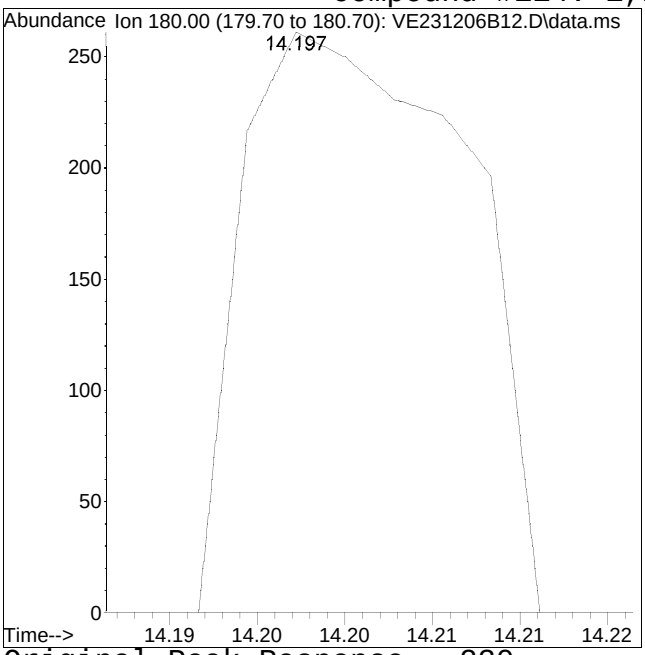
M4 = Poor automated baseline construction.

Manual Integration Report

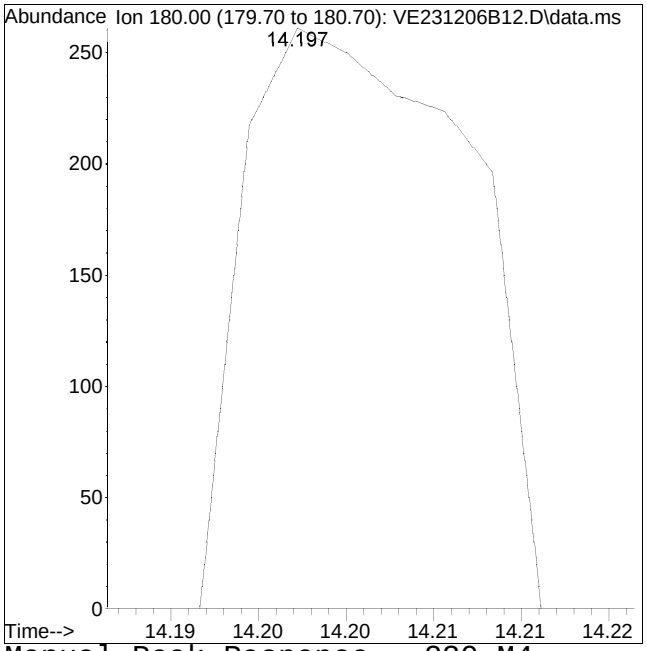
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B12.D
Date Inj'd : 12/6/2023 1:50 pm
Sample : L2370783-05,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 3:10 pm

Compound #114: 1,2,4-Trichlorobenzene



Original Peak Response = 230



Manual Peak Response = 230 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B13.D
Acq On : 6 Dec 2023 2:14 pm
Operator : ELAINE:RAW
Sample : L2370783-06,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 15:18:42 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	252368	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 78.33%			
63) Chlorobenzene-d5	9.684	117	238109	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 82.06%			
84) 1,4-Dichlorobenzene-d4	12.364	152	139791	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 82.97%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	69420	11.019	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.19%			
47) 1,2-Dichloroethane-d4	5.839	65	69502	9.769	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.69%			
64) Toluene-d8	7.834	98	260776	9.540	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.40%			
88) 4-Bromofluorobenzene	11.162	95	99201	9.380	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.049	76	363	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B13.D
Acq On : 6 Dec 2023 2:14 pm
Operator : ELAINE:RAW
Sample : L2370783-06,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 15:18:42 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0	N.D.		
42)	2-Butanone	0.000		0	N.D.		
45)	Benzene	0.000		0	N.D.		
48)	1,2-Dichloroethane	0.000		0	N.D.		
51)	Methyl cyclohexane	0.000		0	N.D.		
52)	Trichloroethene	0.000		0	N.D.	d	
55)	1,2-Dichloropropane	0.000		0	N.D.		
58)	Bromodichloromethane	0.000		0	N.D.		
61)	1,4-Dioxane	0.000		0	N.D.		
62)	cis-1,3-Dichloropropene	0.000		0	N.D.		
65)	Toluene	7.893	92	866	N.D.		
66)	4-Methyl-2-pentanone	0.000		0	N.D.		
67)	Tetrachloroethene	0.000		0	N.D.		
69)	trans-1,3-Dichloropropene	0.000		0	N.D.		
72)	1,1,2-Trichloroethane	0.000		0	N.D.		
73)	Chlorodibromomethane	0.000		0	N.D.		
75)	1,2-Dibromoethane	0.000		0	N.D.		
77)	2-Hexanone	0.000		0	N.D.		
78)	Chlorobenzene	0.000		0	N.D.		
79)	Ethylbenzene	0.000		0	N.D.	d	
81)	p/m Xylene	9.935	106	863M1	0.087	ug/L	
82)	o Xylene	10.469	106	282	N.D.		
83)	Styrene	0.000		0	N.D.		
85)	Bromoform	0.000		0	N.D.		
87)	Isopropylbenzene	0.000		0	N.D.	d	
92)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105)	1,3-Dichlorobenzene	0.000		0	N.D.	d	
106)	1,4-Dichlorobenzene	0.000		0	N.D.	d	
109)	1,2-Dichlorobenzene	0.000		0	N.D.	d	
111)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
116)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

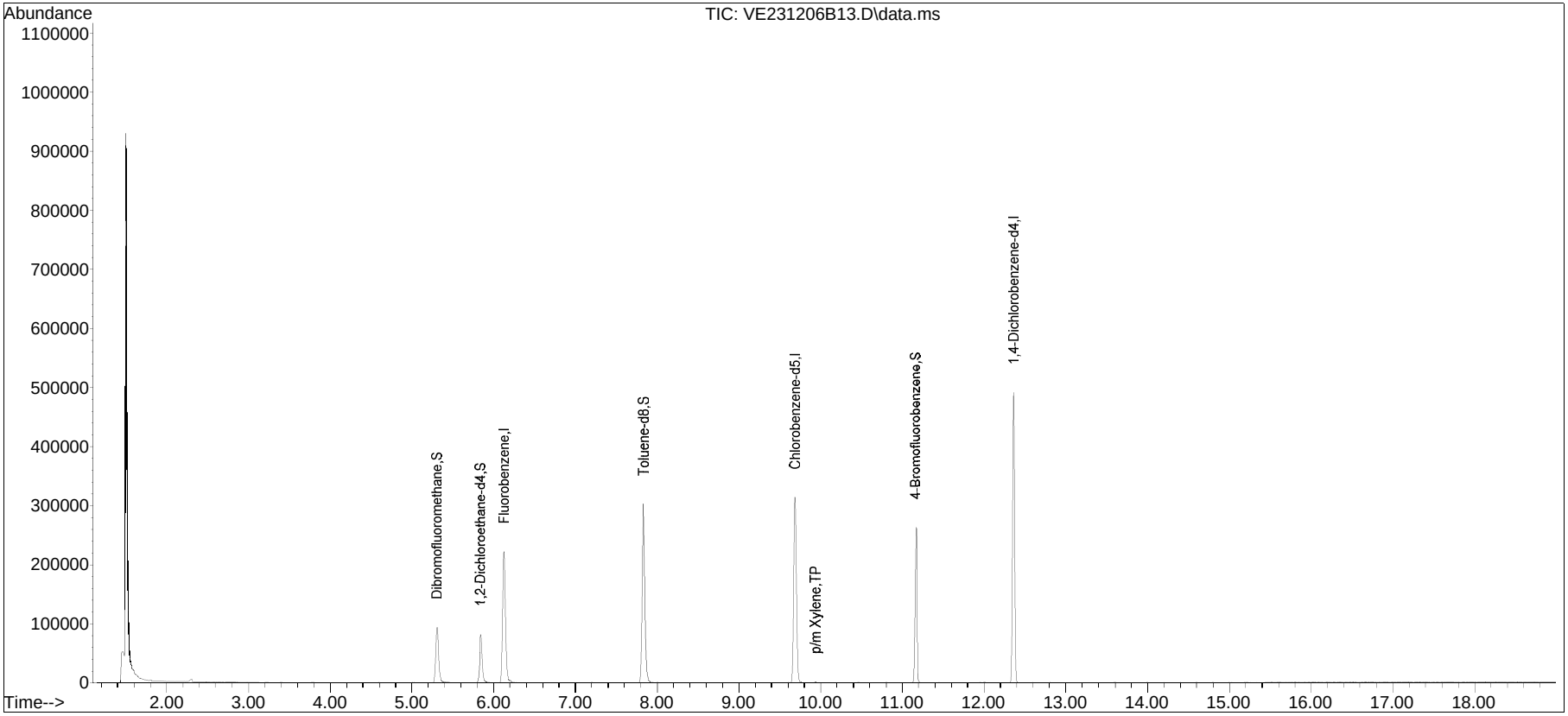
(#) = qualifier out of range (m) = manual integration (+) = signals summed

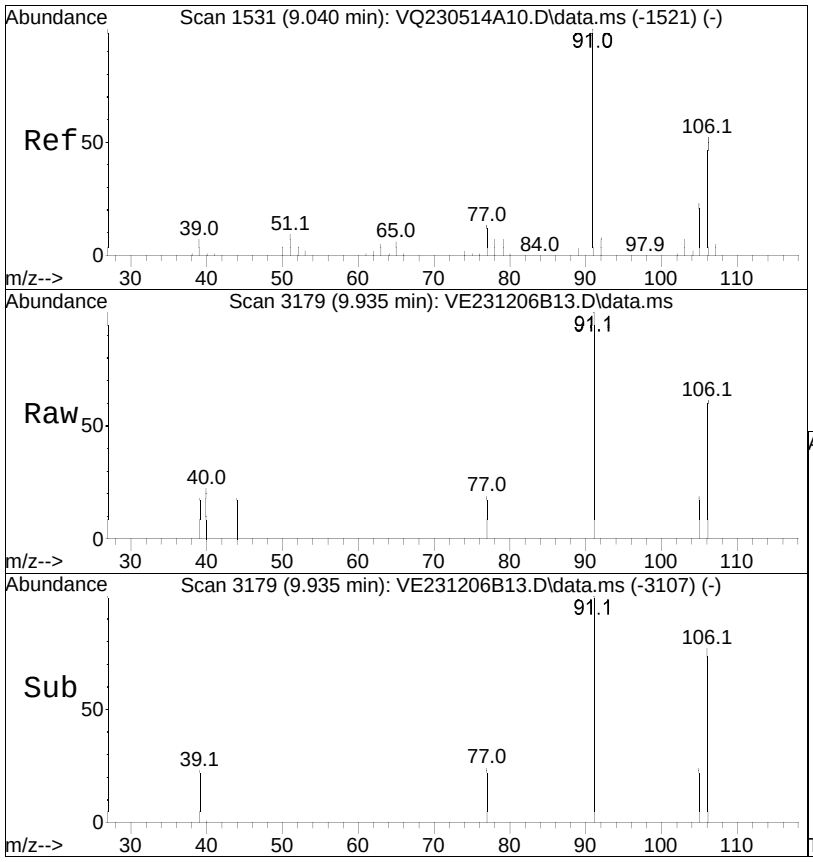
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B13.D
Acq On : 6 Dec 2023 2:14 pm
Operator : ELAINE:RAW
Sample : L2370783-06,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 15:18:42 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

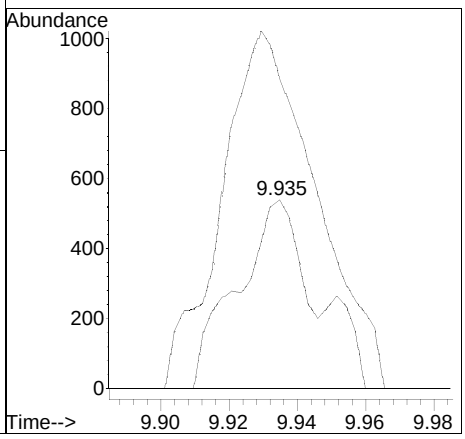




#81
p/m Xylene
Concen: 0.09 ug/L M1
RT: 9.935 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VE231206B13.D
Acq: 6 Dec 2023 2:14 pm

Tgt Ion:106 Resp: 863

Ion	Ratio	Lower	Upper
106	100		
91	226.5	165.5	248.3

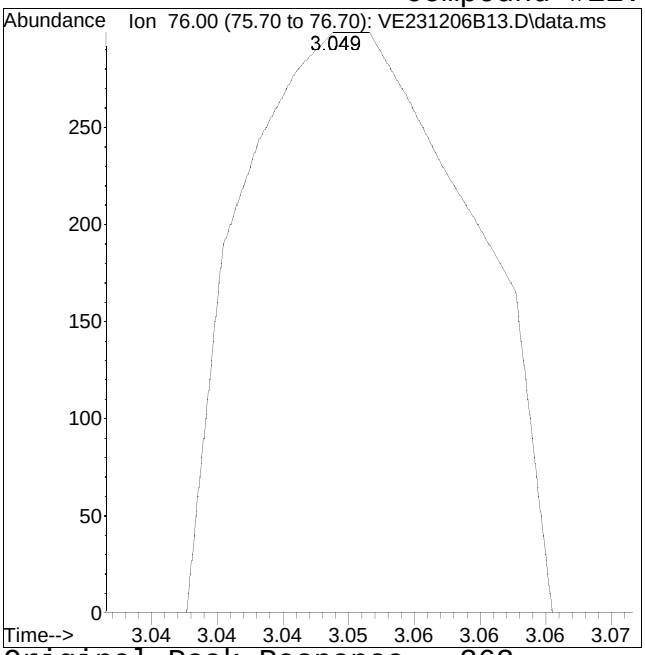


Manual Integration Report

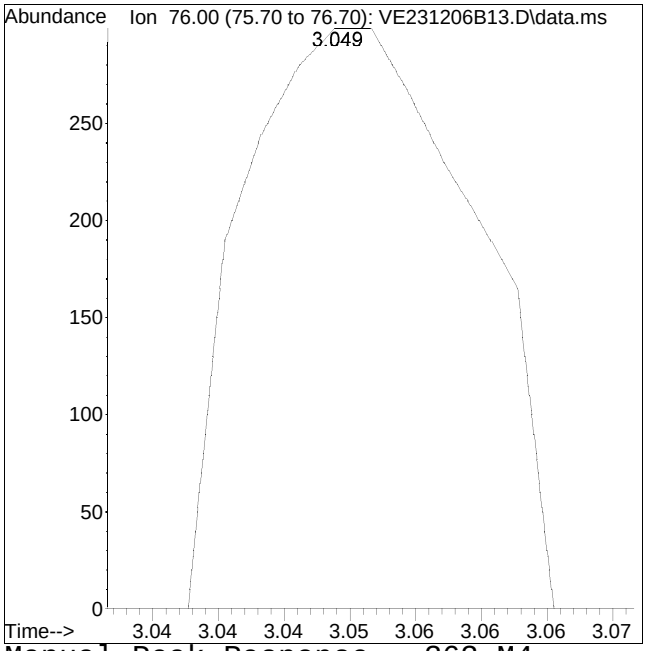
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B13.D
Date Inj'd : 12/6/2023 2:14 pm
Sample : L2370783-06,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 3:10 pm

Compound #11: Carbon disulfide



Original Peak Response = 363



Manual Peak Response = 363 M4

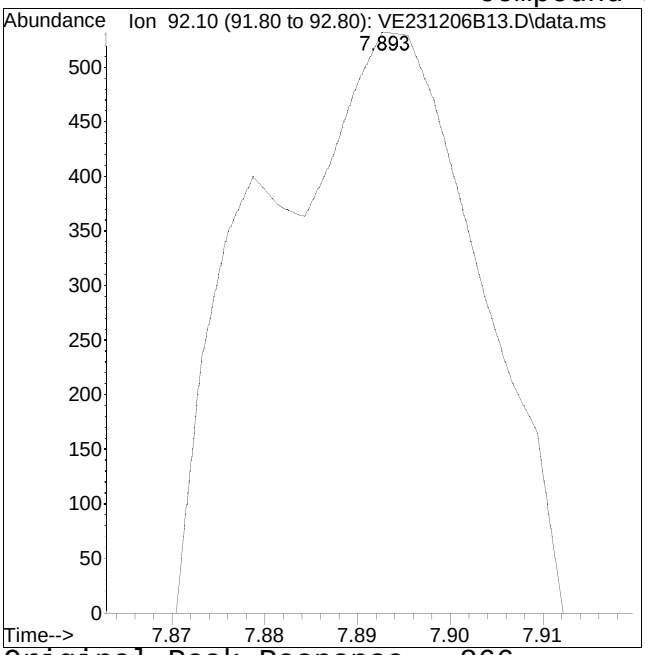
M4 = Poor automated baseline construction.

Manual Integration Report

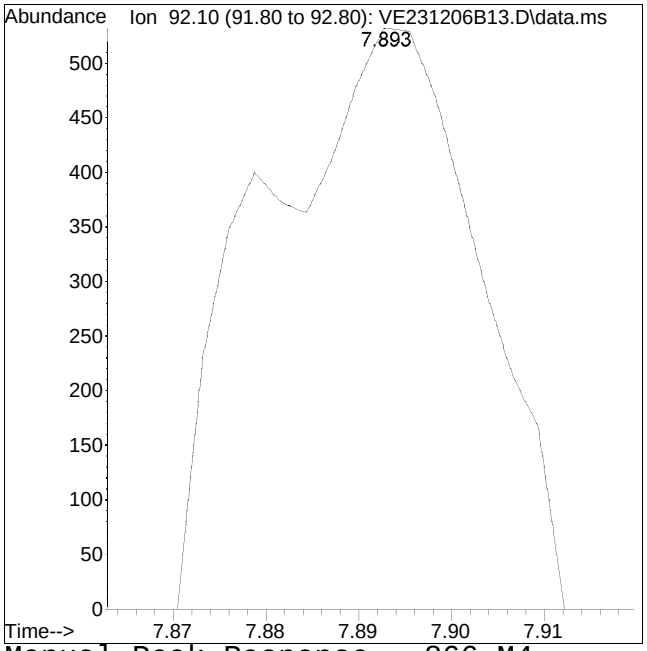
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B13.D
Date Inj'd : 12/6/2023 2:14 pm
Sample : L2370783-06,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 3:10 pm

Compound #65: Toluene



Original Peak Response = 866



Manual Peak Response = 866 M4

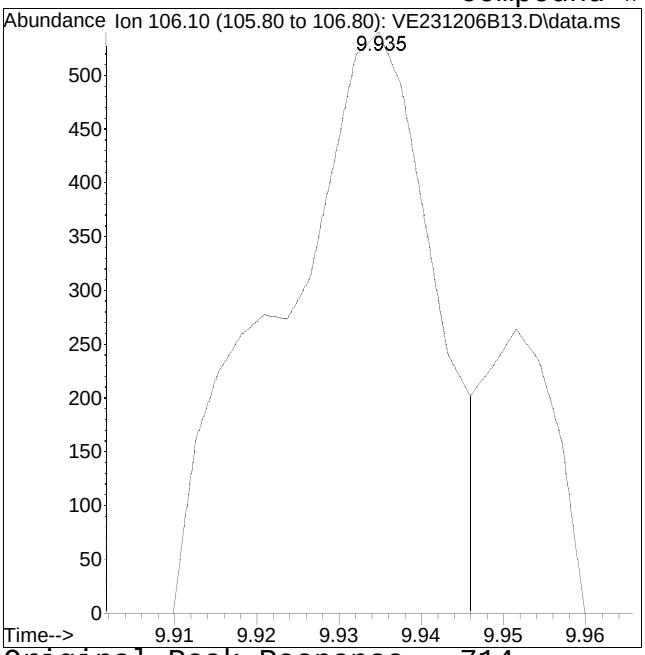
M4 = Poor automated baseline construction.

Manual Integration Report

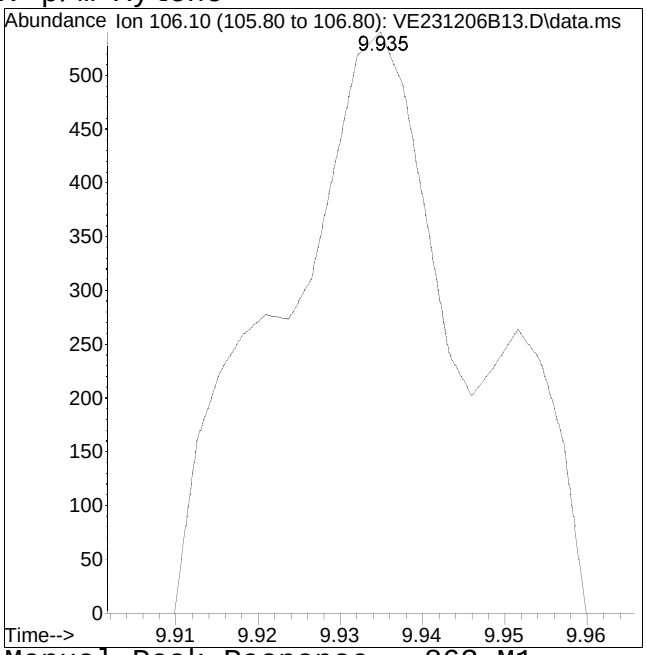
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B13.D
Date Inj'd : 12/6/2023 2:14 pm
Sample : L2370783-06,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 3:10 pm

Compound #81: p/m Xylene



Original Peak Response = 714



Manual Peak Response = 863 M1

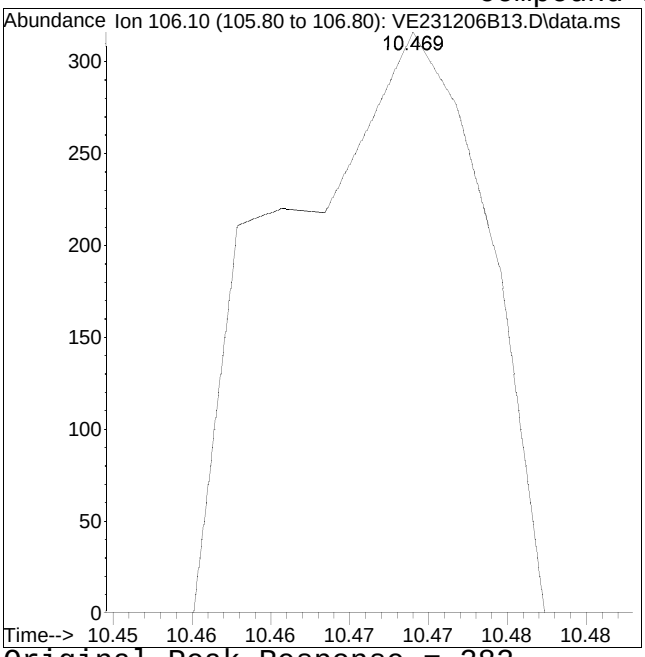
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

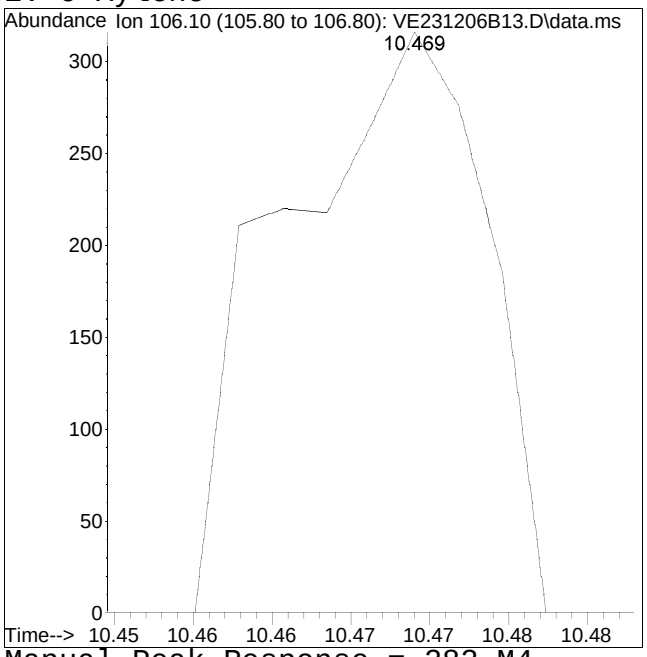
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B13.D
Date Inj'd : 12/6/2023 2:14 pm
Sample : L2370783-06,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 3:10 pm

Compound #82: o Xylene



Original Peak Response = 282



Manual Peak Response = 282 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B14.D
Acq On : 6 Dec 2023 2:39 pm
Operator : ELAINE:RAW
Sample : L2370783-07,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 15:22:04 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.126	96	254365	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 78.95%			
63) Chlorobenzene-d5	9.684	117	242944	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 83.73%			
84) 1,4-Dichlorobenzene-d4	12.361	152	137150	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 81.41%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	69692	10.976	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.76%			
47) 1,2-Dichloroethane-d4	5.842	65	69426	9.681	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.81%			
64) Toluene-d8	7.832	98	262794	9.423	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.23%			
88) 4-Bromofluorobenzene	11.162	95	98520	9.495	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.95%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.043	76	406	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B14.D
Acq On : 6 Dec 2023 2:39 pm
Operator : ELAINE:RAW
Sample : L2370783-07,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 15:22:04 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0	N.D.		
42)	2-Butanone	0.000		0	N.D.		
45)	Benzene	0.000		0	N.D.		
48)	1,2-Dichloroethane	0.000		0	N.D.		
51)	Methyl cyclohexane	0.000		0	N.D.		
52)	Trichloroethene	0.000		0	N.D.	d	
55)	1,2-Dichloropropane	0.000		0	N.D.		
58)	Bromodichloromethane	0.000		0	N.D.		
61)	1,4-Dioxane	0.000		0	N.D.		
62)	cis-1,3-Dichloropropene	0.000		0	N.D.		
65)	Toluene	7.898	92	947	N.D.		
66)	4-Methyl-2-pentanone	0.000		0	N.D.		
67)	Tetrachloroethene	0.000		0	N.D.	d	
69)	trans-1,3-Dichloropropene	0.000		0	N.D.		
72)	1,1,2-Trichloroethane	0.000		0	N.D.		
73)	Chlorodibromomethane	0.000		0	N.D.		
75)	1,2-Dibromoethane	0.000		0	N.D.		
77)	2-Hexanone	0.000		0	N.D.		
78)	Chlorobenzene	0.000		0	N.D.		
79)	Ethylbenzene	0.000		0	N.D.	d	
81)	p/m Xylene	9.932	106	606	N.D.		
82)	o Xylene	10.469	106	211	N.D.		
83)	Styrene	0.000		0	N.D.		
85)	Bromoform	0.000		0	N.D.		
87)	Isopropylbenzene	0.000		0	N.D.		
92)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105)	1,3-Dichlorobenzene	0.000		0	N.D.	d	
106)	1,4-Dichlorobenzene	0.000		0	N.D.	d	
109)	1,2-Dichlorobenzene	0.000		0	N.D.		
111)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
116)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

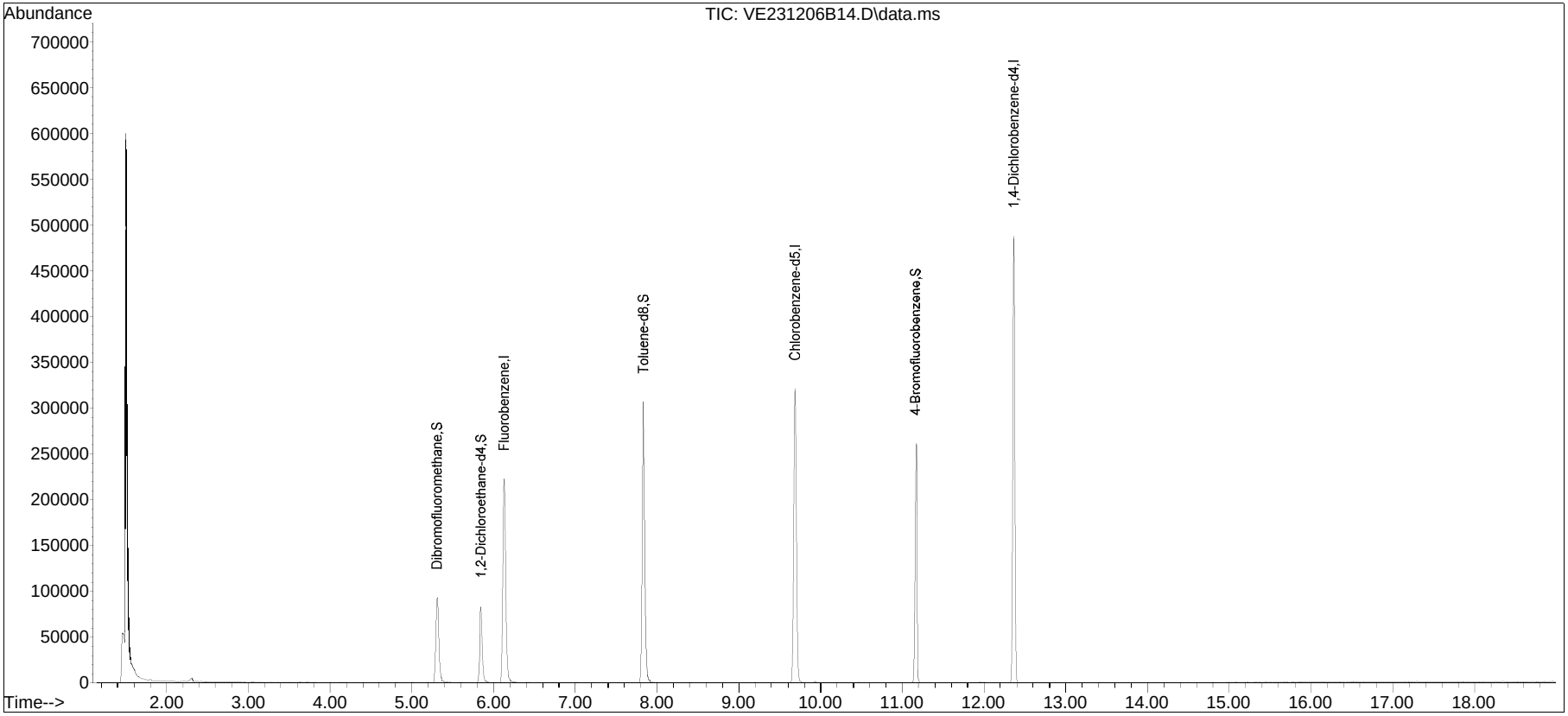
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B14.D
Acq On : 6 Dec 2023 2:39 pm
Operator : ELAINE:RAW
Sample : L2370783-07,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 15:22:04 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

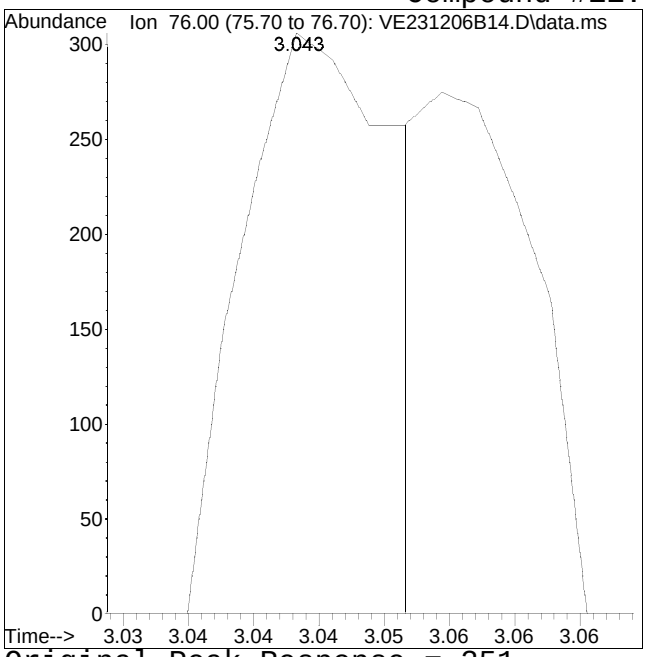


Manual Integration Report

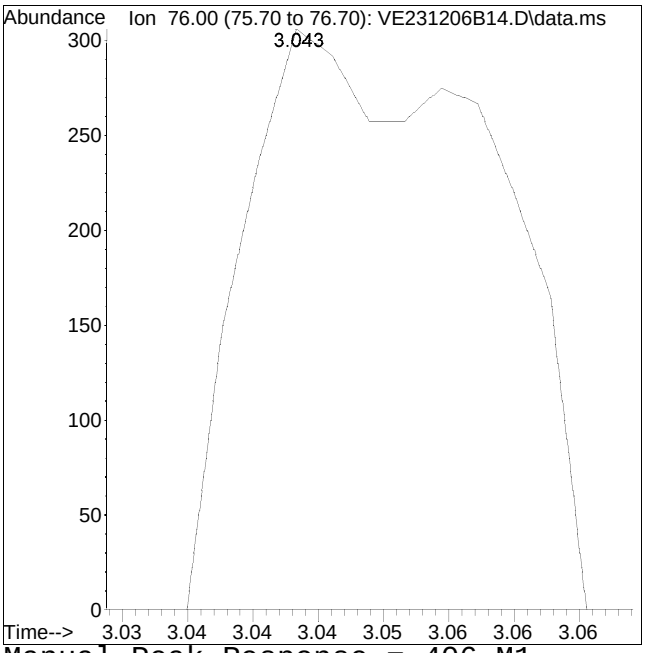
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B14.D
Date Inj'd : 12/6/2023 2:39 pm
Sample : L2370783-07,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 3:10 pm

Compound #11: Carbon disulfide



Original Peak Response = 251



Manual Peak Response = 406 M1

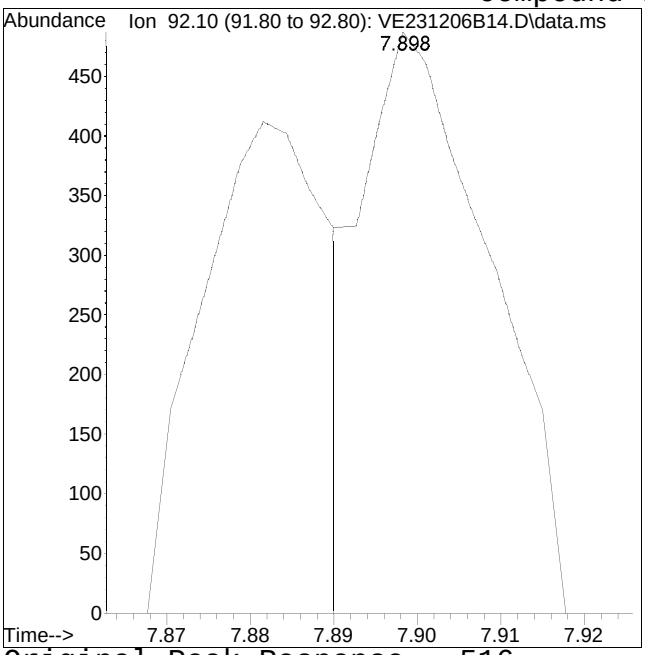
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

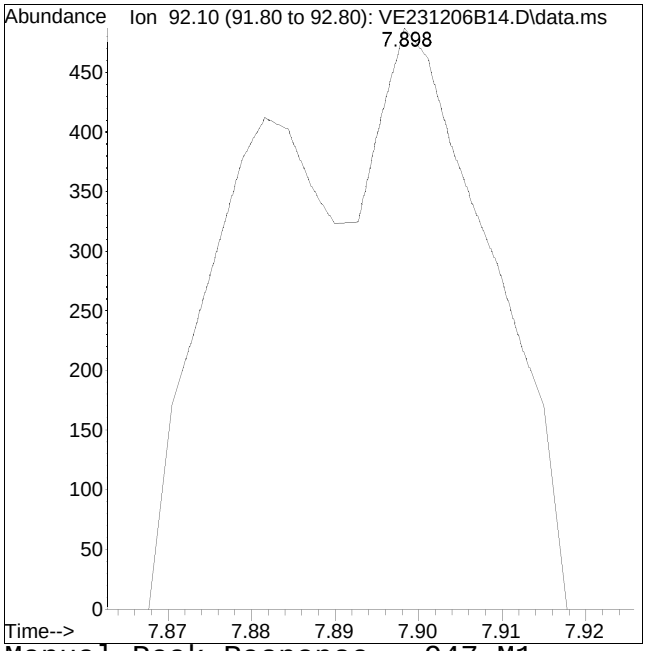
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B14.D
Date Inj'd : 12/6/2023 2:39 pm
Sample : L2370783-07,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 3:10 pm

Compound #65: Toluene



Original Peak Response = 516



Manual Peak Response = 947 M1

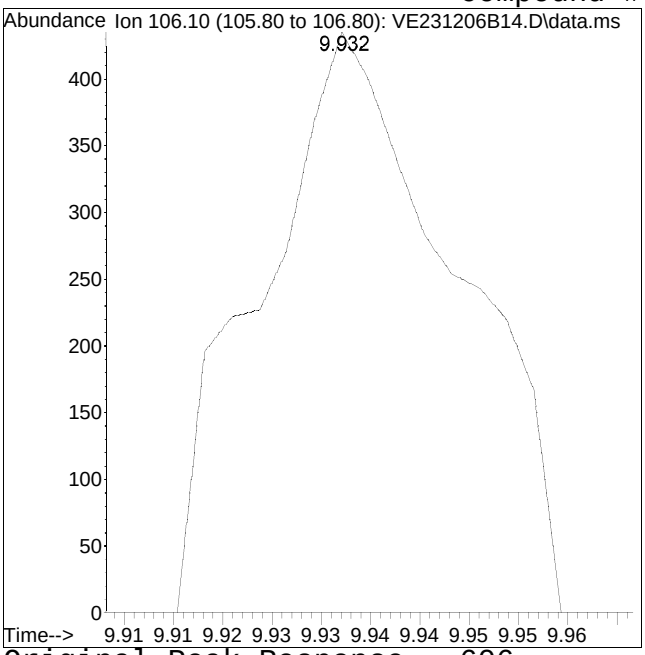
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

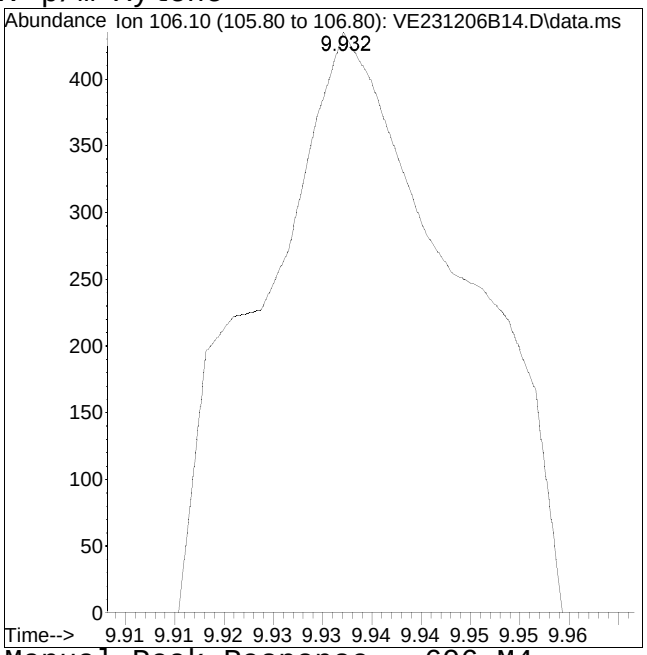
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B14.D
Date Inj'd : 12/6/2023 2:39 pm
Sample : L2370783-07,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 3:10 pm

Compound #81: p/m Xylene



Original Peak Response = 606



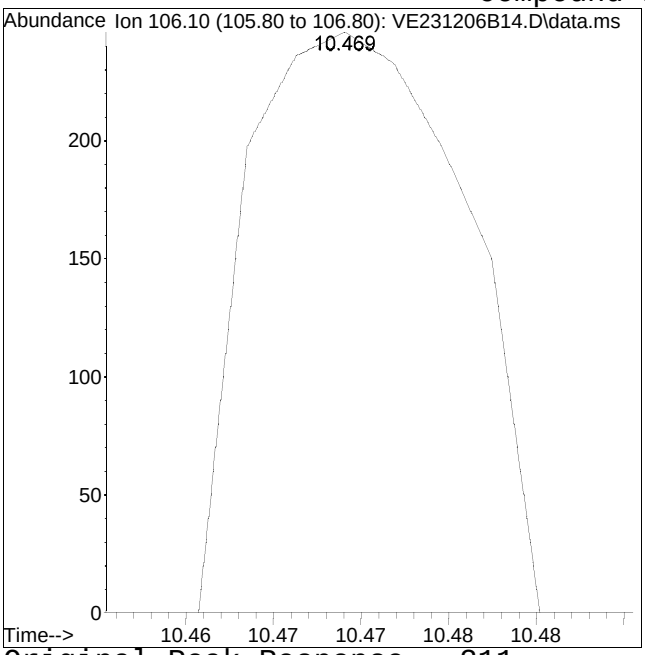
Manual Peak Response = 606 M4

M4 = Poor automated baseline construction.

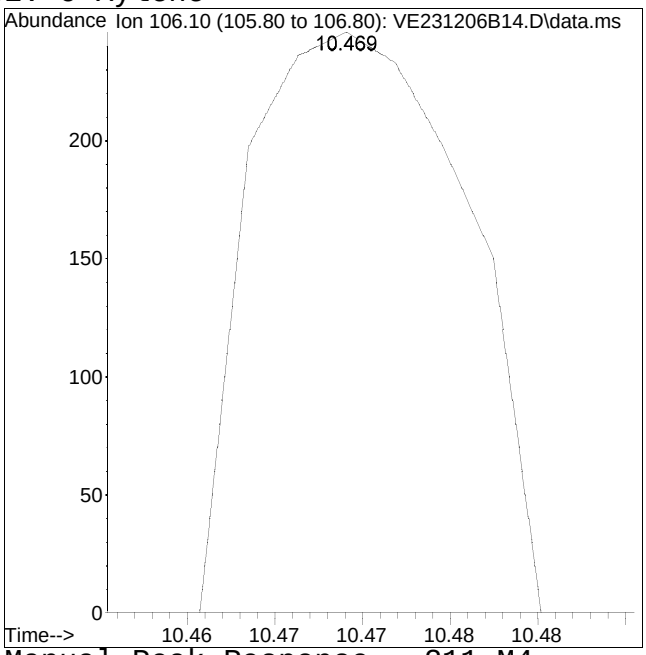
Manual Integration Report

Data Path : K:\Elaine\2023\231206B\ QMethod : Elaine_231127N_8260.m
Data File : VE231206B14.D Operator : ELAINE:RAW
Date Inj'd : 12/6/2023 2:39 pm Instrument : Elaine
Sample : L2370783-07,31,10,10,,A Quant Date : 12/6/2023 3:10 pm

Compound #82: o Xylene



Original Peak Response = 211



Manual Peak Response = 211 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B15.D
Acq On : 6 Dec 2023 3:03 pm
Operator : ELAINE:RAW
Sample : L2370783-08,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 16:23:59 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	251474	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 78.05%			
63) Chlorobenzene-d5	9.684	117	236895	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 81.65%			
84) 1,4-Dichlorobenzene-d4	12.364	152	138642	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 82.29%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	70760	11.272	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.72%			
47) 1,2-Dichloroethane-d4	5.842	65	68813	9.706	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.06%			
64) Toluene-d8	7.834	98	263784	9.700	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.00%			
88) 4-Bromofluorobenzene	11.164	95	97199	9.267	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.67%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.046	76	309	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B15.D
Acq On : 6 Dec 2023 3:03 pm
Operator : ELAINE:RAW
Sample : L2370783-08,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 16:23:59 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0	N.D.		
42)	2-Butanone	0.000		0	N.D.		
45)	Benzene	0.000		0	N.D.		
48)	1,2-Dichloroethane	0.000		0	N.D.		
51)	Methyl cyclohexane	0.000		0	N.D.		
52)	Trichloroethene	0.000		0	N.D.		
55)	1,2-Dichloropropane	0.000		0	N.D.		
58)	Bromodichloromethane	0.000		0	N.D.		
61)	1,4-Dioxane	0.000		0	N.D.		
62)	cis-1,3-Dichloropropene	0.000		0	N.D.		
65)	Toluene	7.893	92	769	N.D.		
66)	4-Methyl-2-pentanone	0.000		0	N.D.		
67)	Tetrachloroethene	0.000		0	N.D.		
69)	trans-1,3-Dichloropropene	0.000		0	N.D.		
72)	1,1,2-Trichloroethane	0.000		0	N.D.		
73)	Chlorodibromomethane	0.000		0	N.D.		
75)	1,2-Dibromoethane	0.000		0	N.D.		
77)	2-Hexanone	0.000		0	N.D.		
78)	Chlorobenzene	0.000		0	N.D.		
79)	Ethylbenzene	9.754	91	488	N.D.		
81)	p/m Xylene	9.926	106	596	N.D.		
82)	o Xylene	0.000		0	N.D.		
83)	Styrene	0.000		0	N.D.		
85)	Bromoform	0.000		0	N.D.		
87)	Isopropylbenzene	0.000		0	N.D.		
92)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105)	1,3-Dichlorobenzene	0.000		0	N.D.	d	
106)	1,4-Dichlorobenzene	0.000		0	N.D.	d	
109)	1,2-Dichlorobenzene	0.000		0	N.D.		
111)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114)	1,2,4-Trichlorobenzene	0.000		0	N.D.	d	
116)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

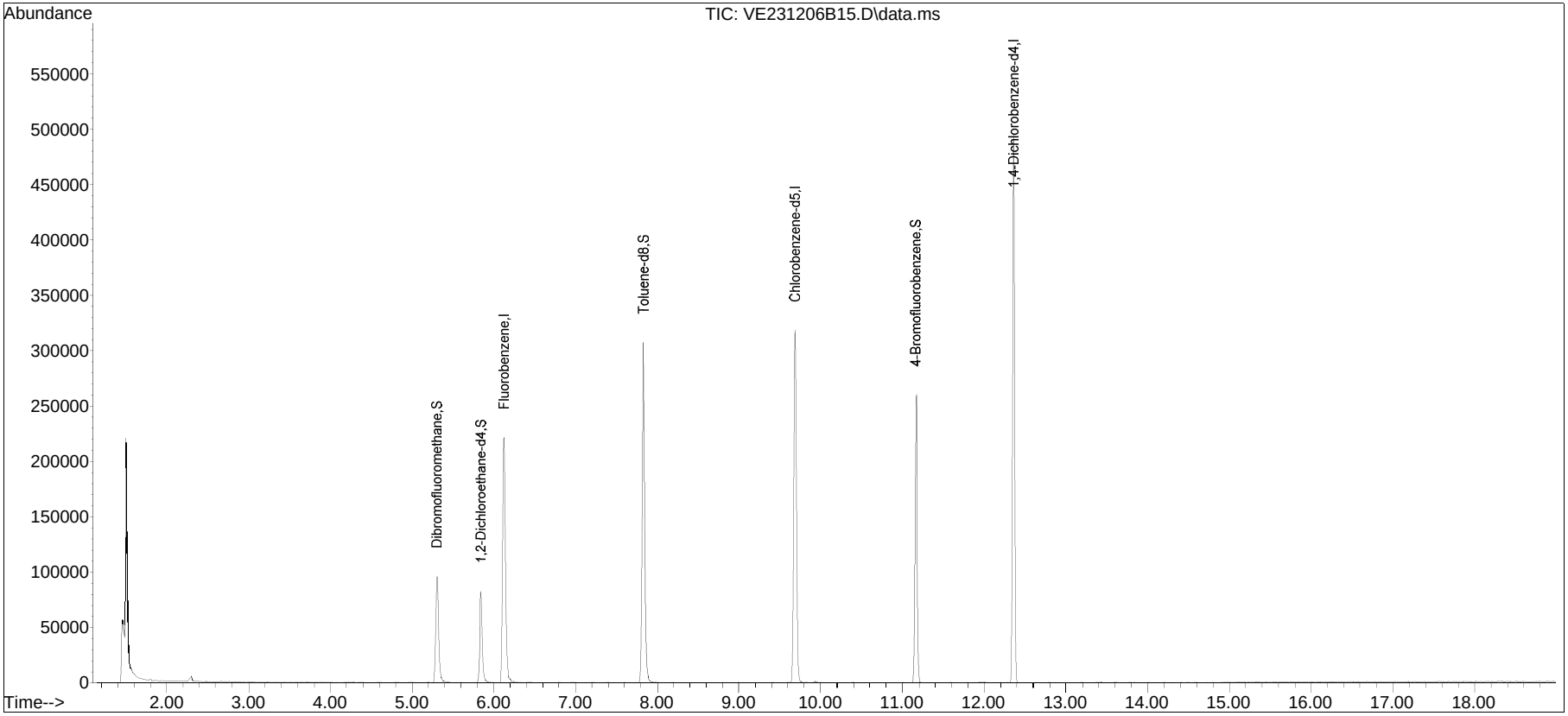
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B15.D
Acq On : 6 Dec 2023 3:03 pm
Operator : ELAINE:RAW
Sample : L2370783-08,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 16:23:59 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

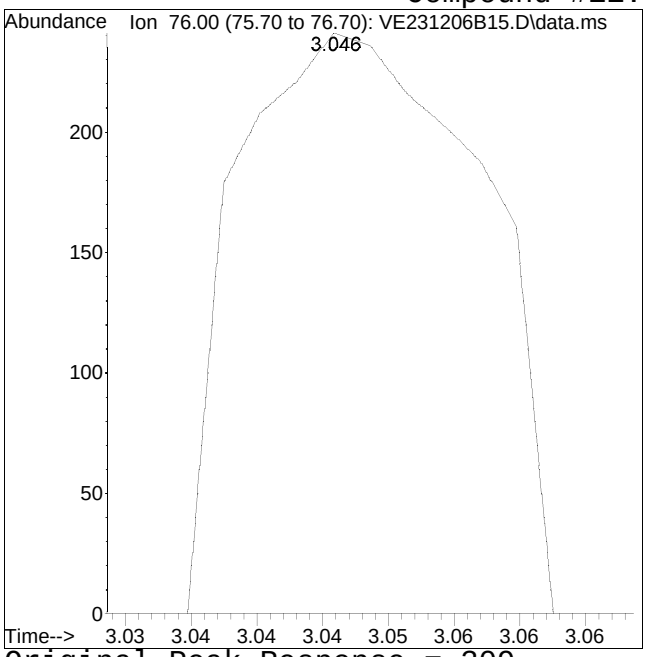
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•



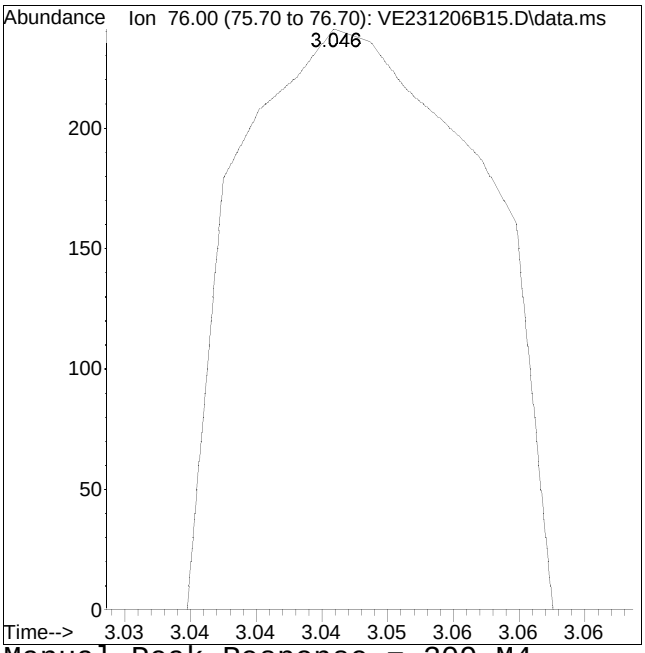
Manual Integration Report

Data Path	: K:\Elaine\2023\231206B\	QMethod	: Elaine_231127N_8260.m
Data File	: VE231206B15.D	Operator	: ELAINE:RAW
Date Inj'd	: 12/6/2023 3:03 pm	Instrument	: Elaine
Sample	: L2370783-08,31,10,10,,A	Quant Date	: 12/6/2023 4:17 pm

Compound #11: Carbon disulfide



Original Peak Response = 309



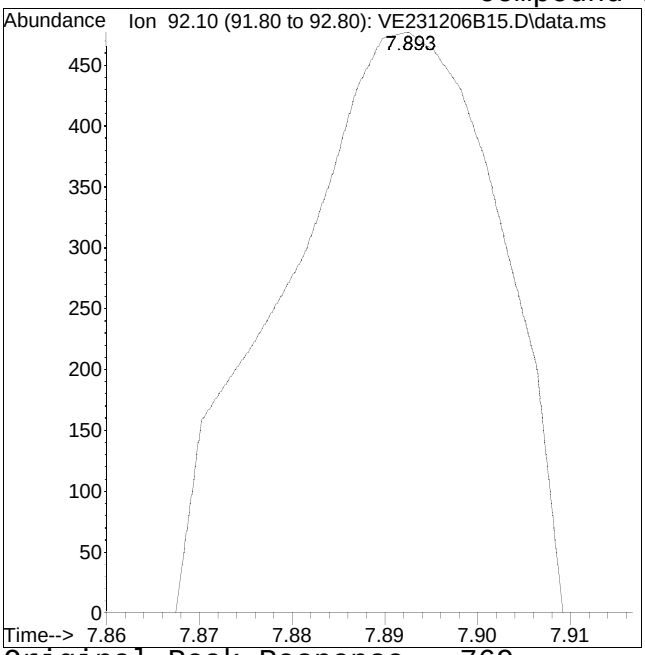
Manual Peak Response = 309 M4

M4 = Poor automated baseline construction.

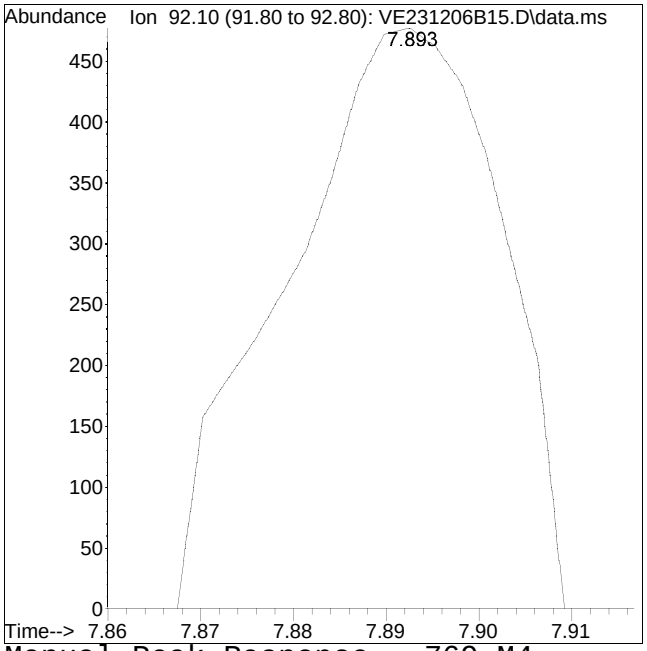
Manual Integration Report

Data Path : K:\Elaine\2023\231206B\ QMethod : Elaine_231127N_8260.m
Data File : VE231206B15.D Operator : ELAINE:RAW
Date Inj'd : 12/6/2023 3:03 pm Instrument : Elaine
Sample : L2370783-08,31,10,10,,A Quant Date : 12/6/2023 4:17 pm

Compound #65: Toluene



Original Peak Response = 769



Manual Peak Response = 769 M4

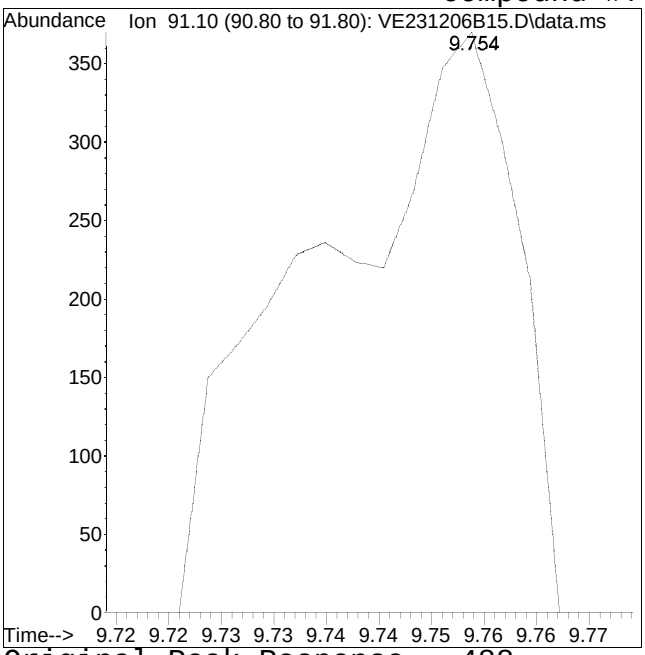
M4 = Poor automated baseline construction.

Manual Integration Report

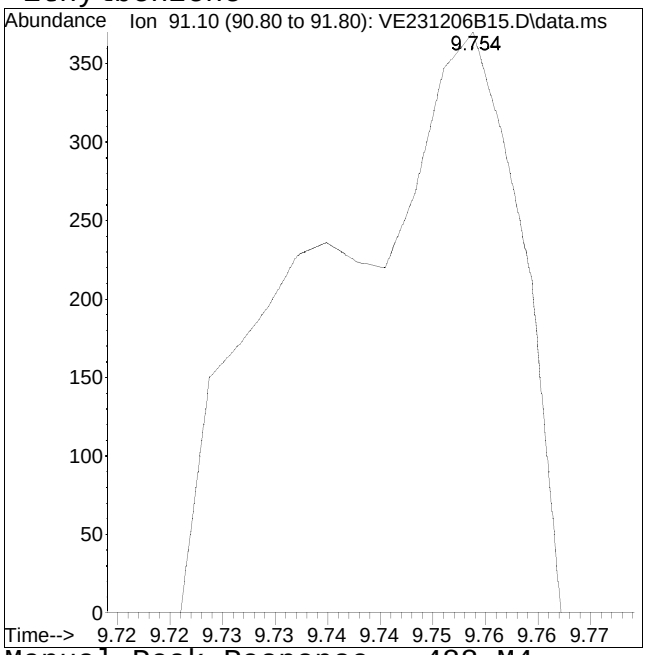
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B15.D
Date Inj'd : 12/6/2023 3:03 pm
Sample : L2370783-08,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 4:17 pm

Compound #79: Ethylbenzene



Original Peak Response = 488



Manual Peak Response = 488 M4

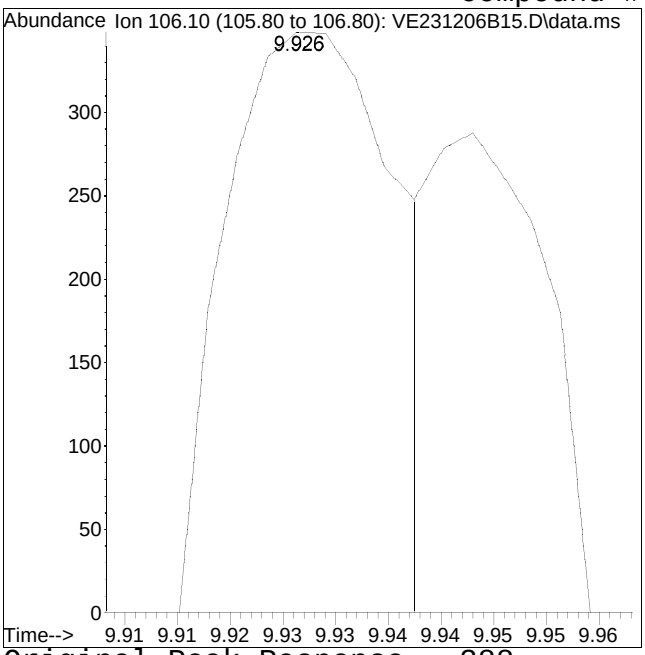
M4 = Poor automated baseline construction.

Manual Integration Report

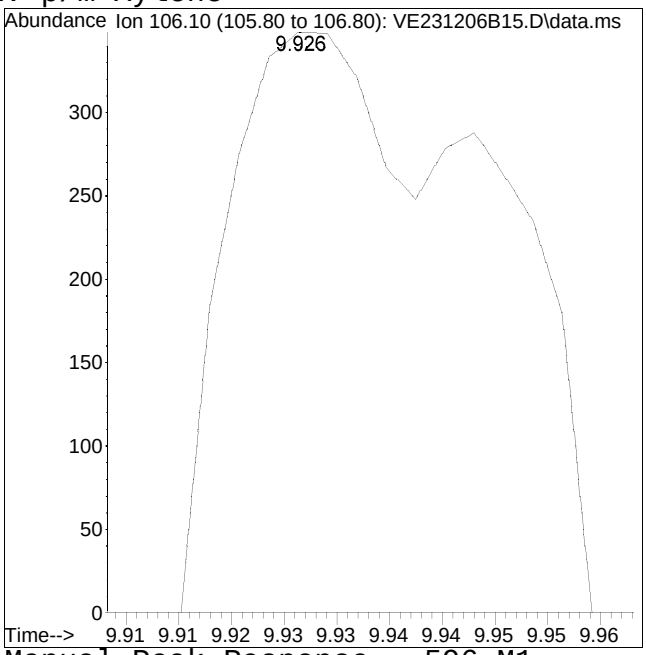
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B15.D
Date Inj'd : 12/6/2023 3:03 pm
Sample : L2370783-08,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 4:17 pm

Compound #81: p/m Xylene



Original Peak Response = 388



Manual Peak Response = 596 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B16.D
Acq On : 6 Dec 2023 3:28 pm
Operator : ELAINE:RAW
Sample : L2370783-09,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 16:26:08 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	248778	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 77.22%			
63) Chlorobenzene-d5	9.684	117	235247	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 81.08%			
84) 1,4-Dichlorobenzene-d4	12.364	152	135060	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 80.16%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	70509	11.354	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.54%			
47) 1,2-Dichloroethane-d4	5.839	65	69755	9.946	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.46%			
64) Toluene-d8	7.834	98	260510	9.646	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.46%			
88) 4-Bromofluorobenzene	11.162	95	96613	9.456	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.054	76	253	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	5.130	83	739	0.088	ug/L #	78
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B16.D
Acq On : 6 Dec 2023 3:28 pm
Operator : ELAINE:RAW
Sample : L2370783-09,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 16:26:08 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0	N.D.		
42)	2-Butanone	0.000		0	N.D.		
45)	Benzene	0.000		0	N.D.		
48)	1,2-Dichloroethane	0.000		0	N.D.		
51)	Methyl cyclohexane	0.000		0	N.D.		
52)	Trichloroethene	0.000		0	N.D.		
55)	1,2-Dichloropropane	0.000		0	N.D.		
58)	Bromodichloromethane	0.000		0	N.D.		
61)	1,4-Dioxane	0.000		0	N.D.		
62)	cis-1,3-Dichloropropene	0.000		0	N.D.		
65)	Toluene	0.000		0	N.D.	d	
66)	4-Methyl-2-pentanone	0.000		0	N.D.		
67)	Tetrachloroethene	0.000		0	N.D.		
69)	trans-1,3-Dichloropropene	0.000		0	N.D.		
72)	1,1,2-Trichloroethane	0.000		0	N.D.		
73)	Chlorodibromomethane	0.000		0	N.D.		
75)	1,2-Dibromoethane	0.000		0	N.D.		
77)	2-Hexanone	0.000		0	N.D.		
78)	Chlorobenzene	0.000		0	N.D.		
79)	Ethylbenzene	0.000		0	N.D.	d	
81)	p/m Xylene	9.935	106	310	N.D.		
82)	o Xylene	0.000		0	N.D.		
83)	Styrene	0.000		0	N.D.	d	
85)	Bromoform	0.000		0	N.D.		
87)	Isopropylbenzene	0.000		0	N.D.		
92)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105)	1,3-Dichlorobenzene	0.000		0	N.D.	d	
106)	1,4-Dichlorobenzene	0.000		0	N.D.	d	
109)	1,2-Dichlorobenzene	0.000		0	N.D.		
111)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114)	1,2,4-Trichlorobenzene	14.203	180	183	N.D.		
116)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

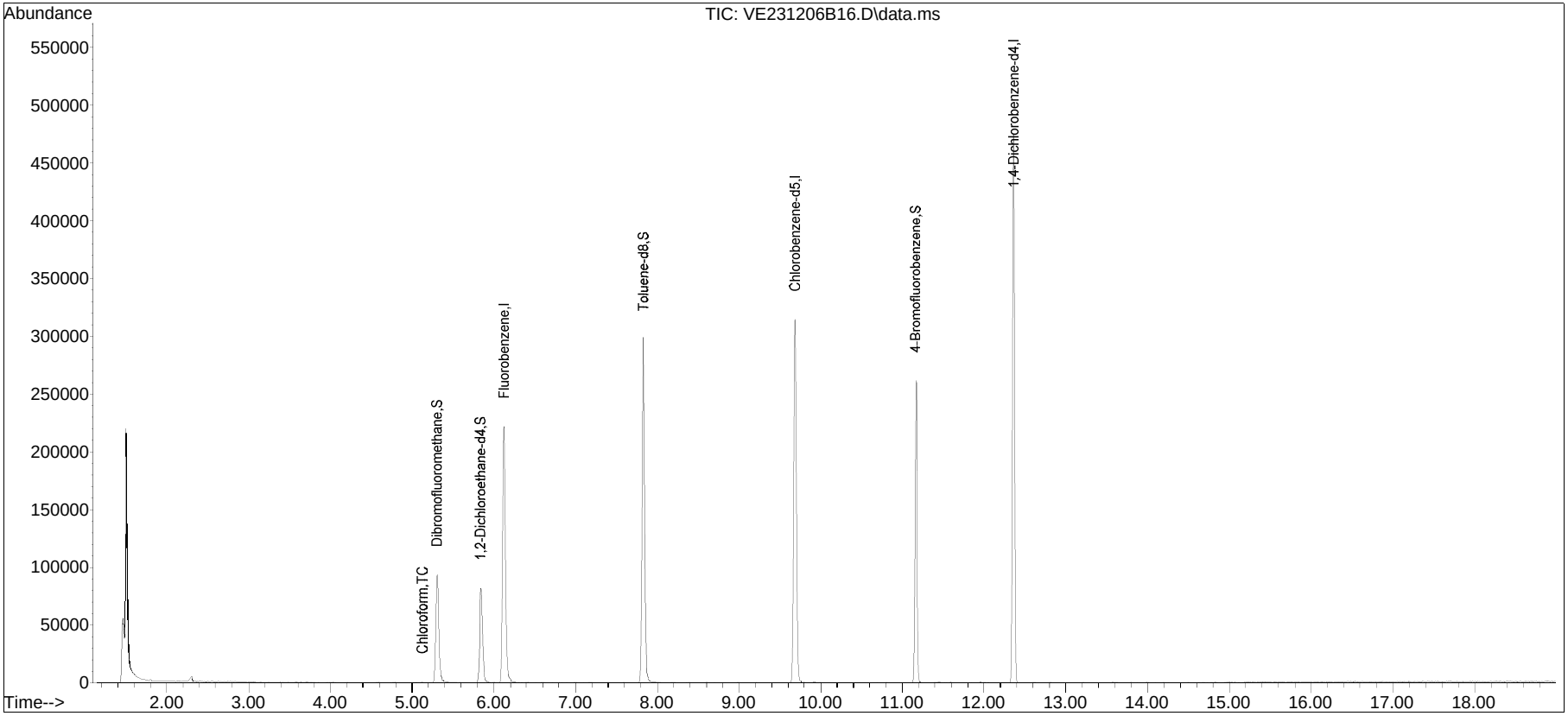
(#) = qualifier out of range (m) = manual integration (+) = signals summed

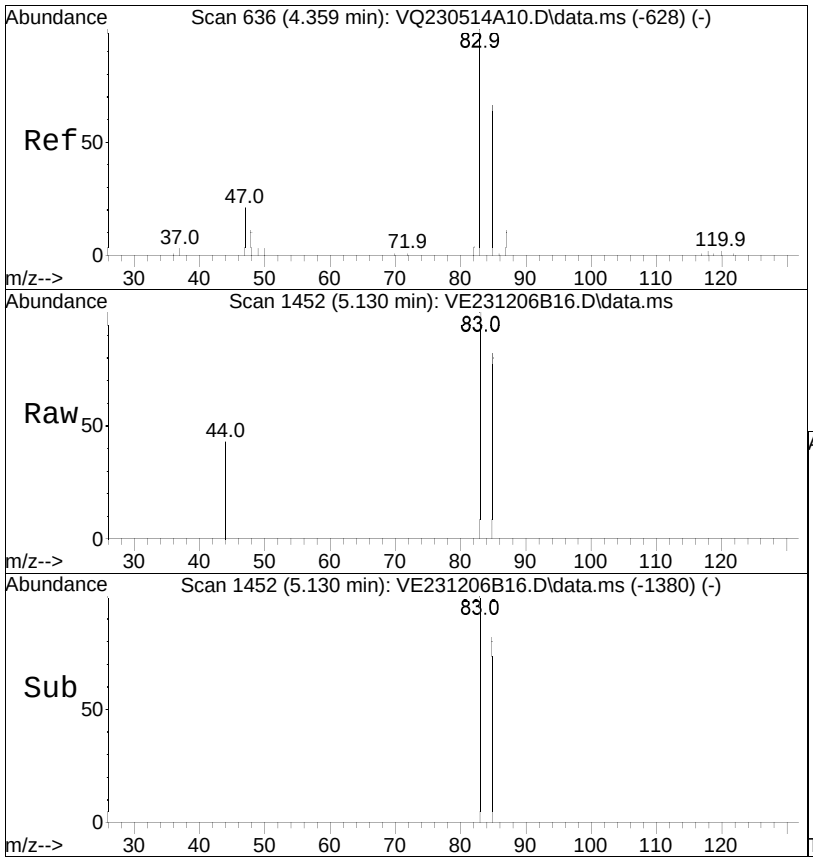
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B16.D
Acq On : 6 Dec 2023 3:28 pm
Operator : ELAINE:RAW
Sample : L2370783-09,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 16:26:08 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

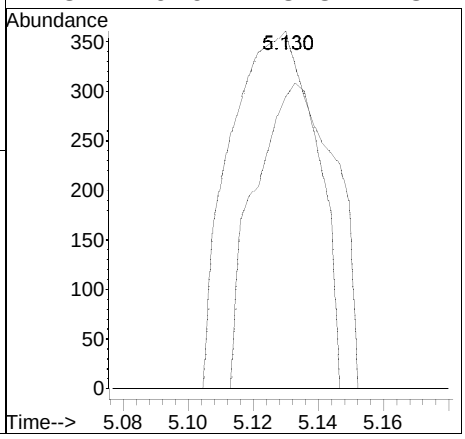




#35
Chloroform
Concen: 0.09 ug/L
RT: 5.130 min Scan# 1452
Delta R.T. -0.000 min
Lab File: VE231206B16.D
Acq: 6 Dec 2023 3:28 pm

Tgt Ion: 83 Resp: 739

Ion	Ratio	Lower	Upper
83	100		
85	59.7	43.0	89.2
47	0.0	17.5	36.3#
48	0.0	8.8	18.2#

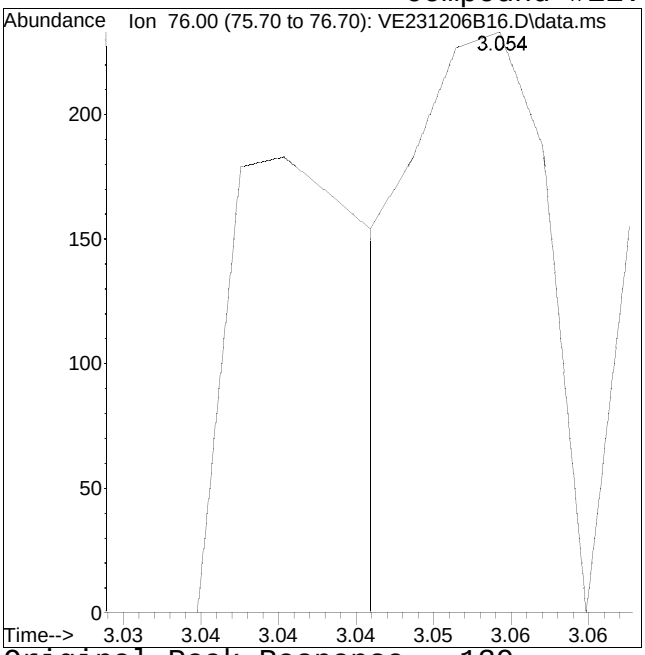


Manual Integration Report

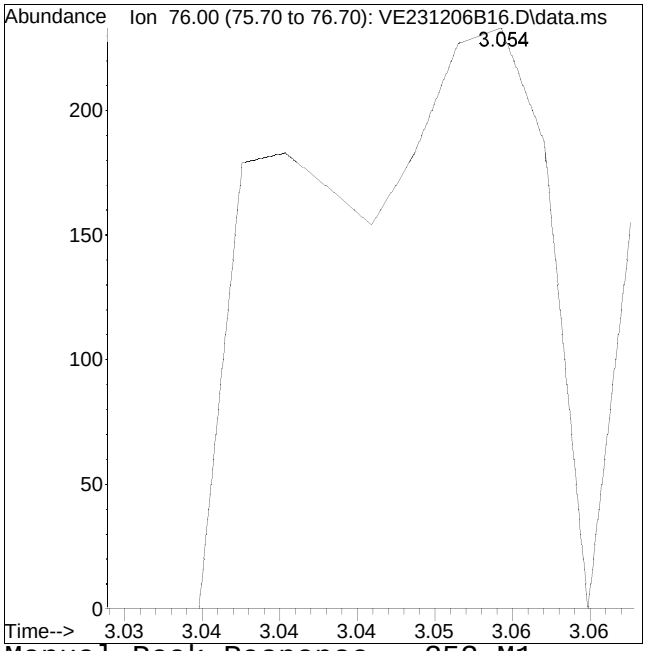
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B16.D
Date Inj'd : 12/6/2023 3:28 pm
Sample : L2370783-09,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 4:17 pm

Compound #11: Carbon disulfide



Original Peak Response = 139



Manual Peak Response = 253 M1

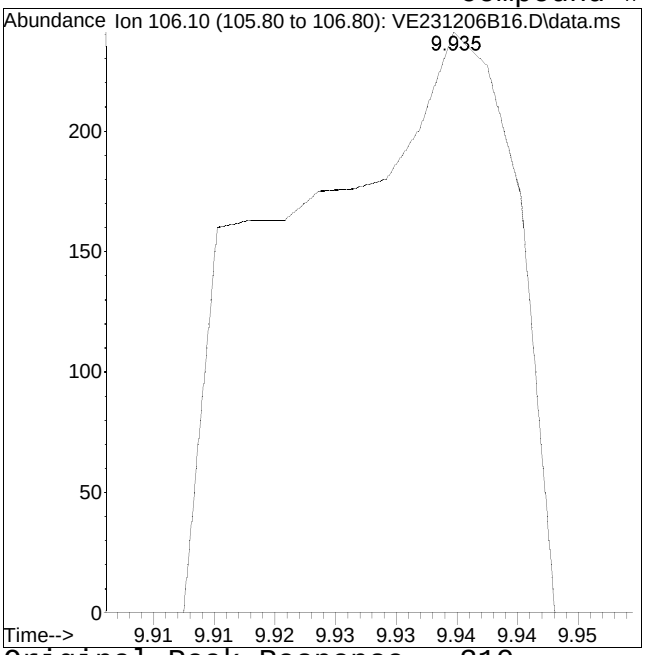
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

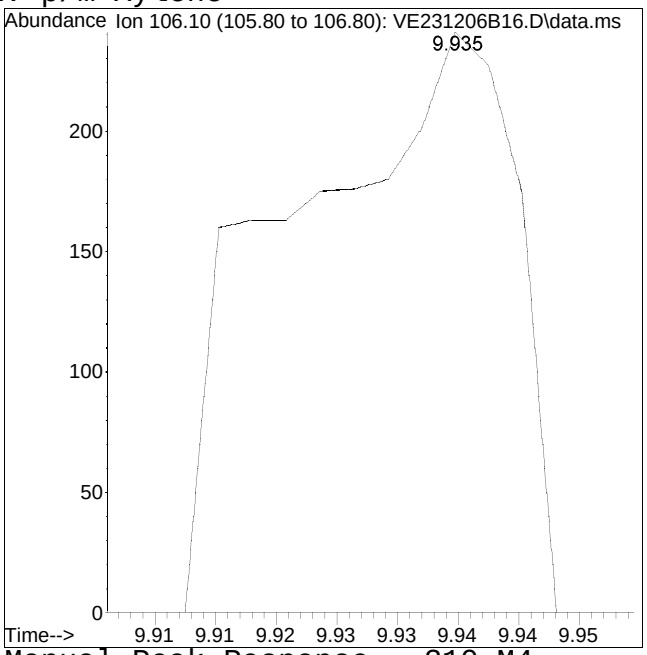
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B16.D
Date Inj'd : 12/6/2023 3:28 pm
Sample : L2370783-09,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 4:17 pm

Compound #81: p/m Xylene



Original Peak Response = 310



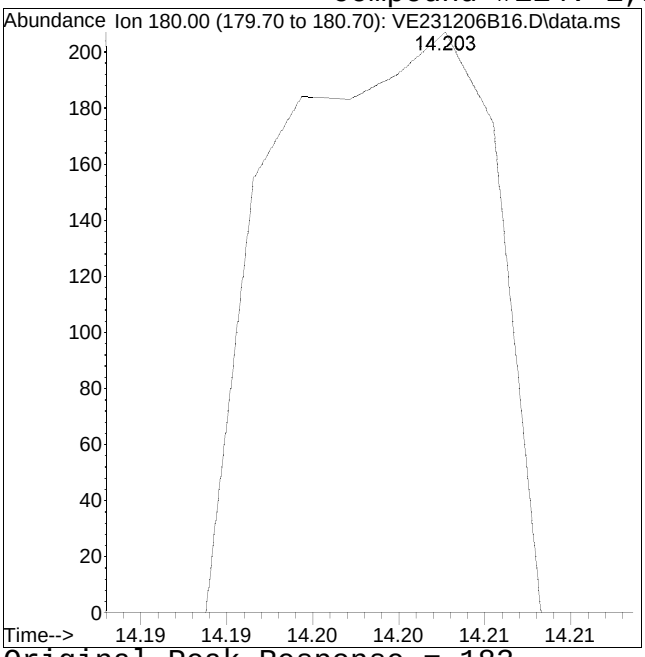
Manual Peak Response = 310 M4

M4 = Poor automated baseline construction.

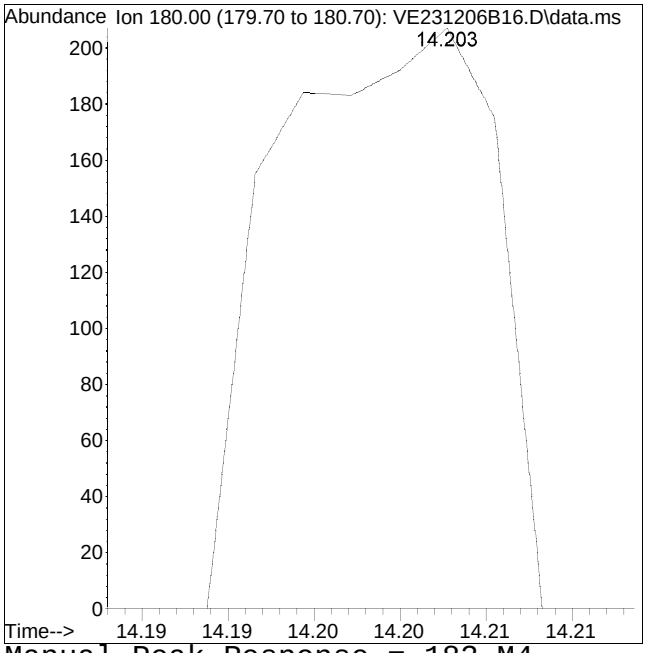
Manual Integration Report

Data Path : K:\Elaine\2023\231206B\ QMethod : Elaine_231127N_8260.m
Data File : VE231206B16.D Operator : ELAINE:RAW
Date Inj'd : 12/6/2023 3:28 pm Instrument : Elaine
Sample : L2370783-09,31,10,10,,A Quant Date : 12/6/2023 4:17 pm

Compound #114: 1,2,4-Trichlorobenzene



Original Peak Response = 183



Manual Peak Response = 183 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B17.D
Acq On : 6 Dec 2023 3:53 pm
Operator : ELAINE:RAW
Sample : L2370783-11,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 16:28:30 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	244038	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 75.75%			
63) Chlorobenzene-d5	9.684	117	233130	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 80.35%			
84) 1,4-Dichlorobenzene-d4	12.364	152	133377	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 79.17%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	70161	11.517	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.17%			
47) 1,2-Dichloroethane-d4	5.842	65	67214	9.770	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.70%			
64) Toluene-d8	7.831	98	255400	9.543	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.43%			
88) 4-Bromofluorobenzene	11.162	95	96027	9.517	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.17%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.046	76	401	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.627	43	606M1	0.499	ug/L	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	5.127	83	451	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B17.D
Acq On : 6 Dec 2023 3:53 pm
Operator : ELAINE:RAW
Sample : L2370783-11,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 16:28:30 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40)	1,1,1-Trichloroethane	0.000		0	N.D.		
42)	2-Butanone	0.000		0	N.D.		
45)	Benzene	0.000		0	N.D.	d	
48)	1,2-Dichloroethane	0.000		0	N.D.		
51)	Methyl cyclohexane	0.000		0	N.D.		
52)	Trichloroethene	0.000		0	N.D.		
55)	1,2-Dichloropropane	0.000		0	N.D.		
58)	Bromodichloromethane	0.000		0	N.D.		
61)	1,4-Dioxane	0.000		0	N.D.		
62)	cis-1,3-Dichloropropene	0.000		0	N.D.		
65)	Toluene	7.890	92	1176	0.089	ug/L	86
66)	4-Methyl-2-pentanone	0.000		0	N.D.		
67)	Tetrachloroethene	0.000		0	N.D.		
69)	trans-1,3-Dichloropropene	0.000		0	N.D.		
72)	1,1,2-Trichloroethane	0.000		0	N.D.		
73)	Chlorodibromomethane	0.000		0	N.D.		
75)	1,2-Dibromoethane	0.000		0	N.D.		
77)	2-Hexanone	0.000		0	N.D.	d	
78)	Chlorobenzene	0.000		0	N.D.		
79)	Ethylbenzene	0.000		0	N.D.	d	
81)	p/m Xylene	9.929	106	546	N.D.		
82)	o Xylene	10.466	106	189	N.D.		
83)	Styrene	0.000		0	N.D.	d	
85)	Bromoform	0.000		0	N.D.		
87)	Isopropylbenzene	0.000		0	N.D.		
92)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105)	1,3-Dichlorobenzene	0.000		0	N.D.	d	
106)	1,4-Dichlorobenzene	0.000		0	N.D.	d	
109)	1,2-Dichlorobenzene	0.000		0	N.D.		
111)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
116)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

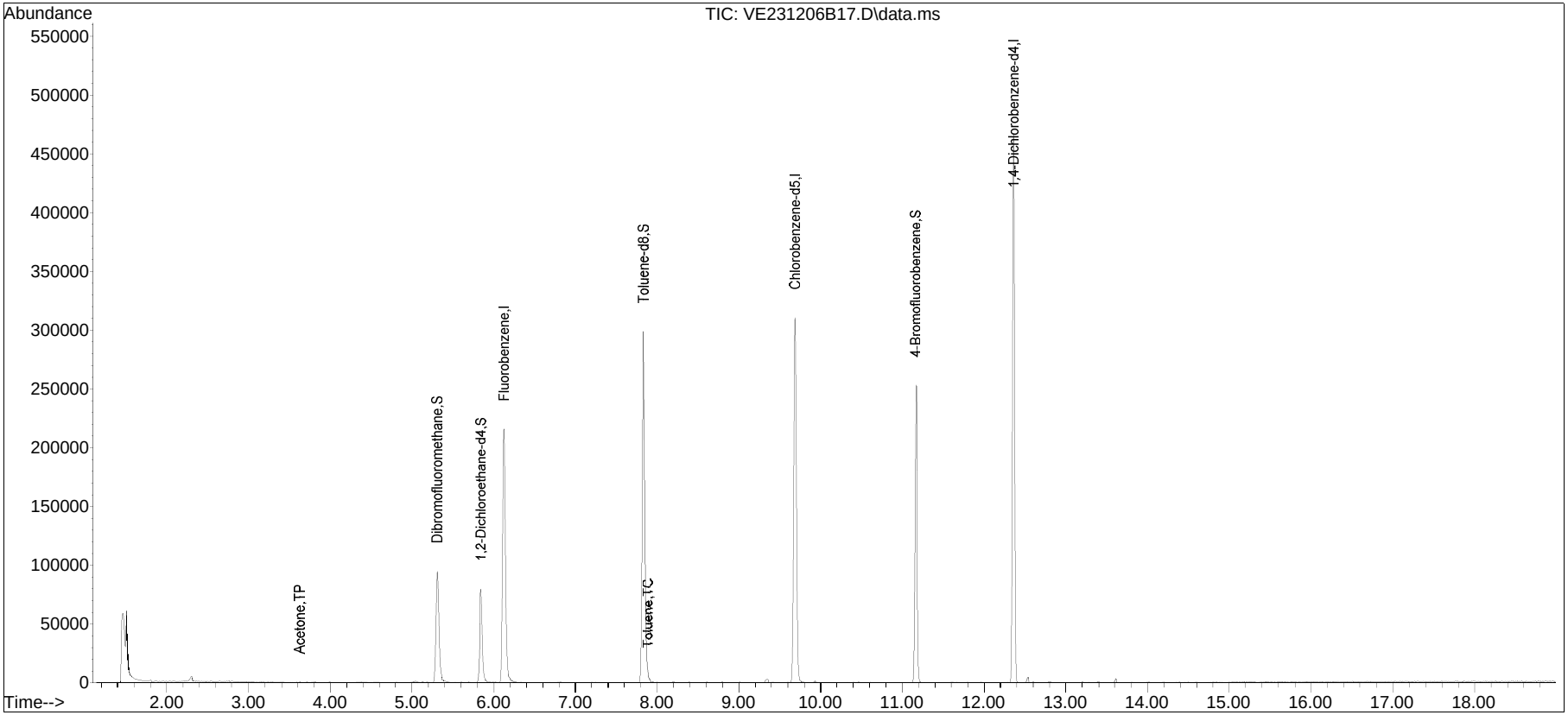
(#) = qualifier out of range (m) = manual integration (+) = signals summed

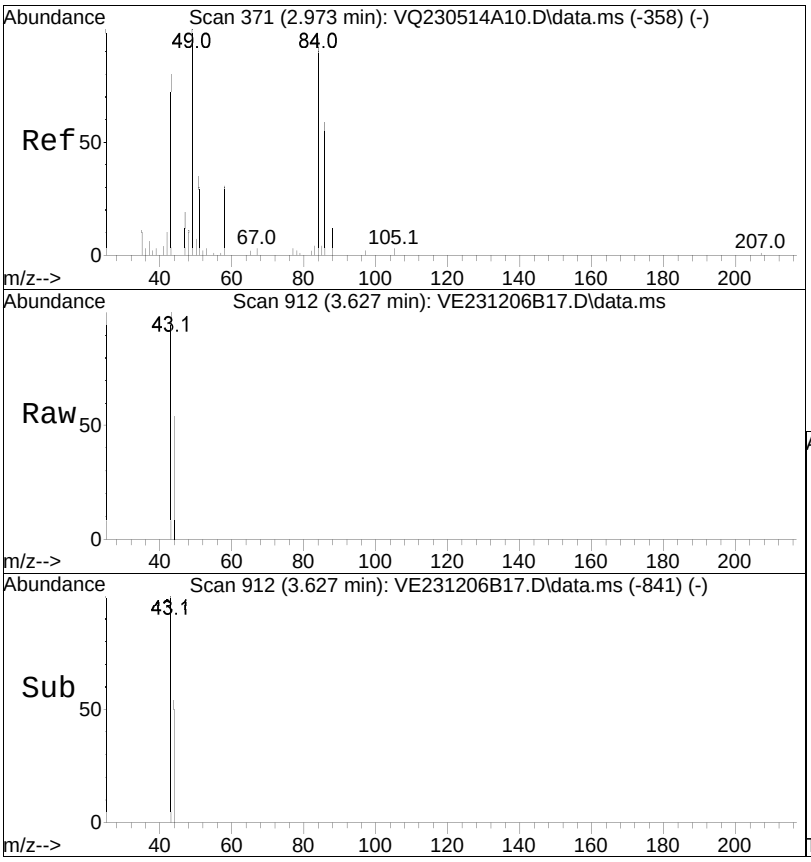
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B17.D
Acq On : 6 Dec 2023 3:53 pm
Operator : ELAINE:RAW
Sample : L2370783-11,31,10,10,,A
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 16:28:30 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

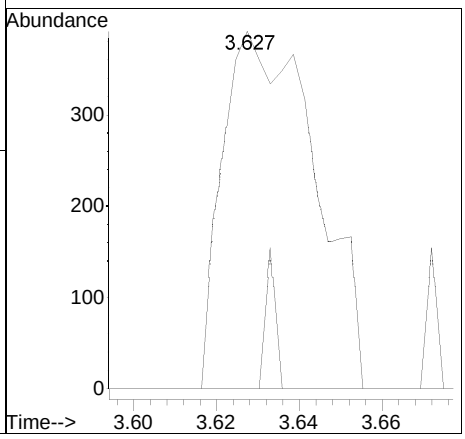


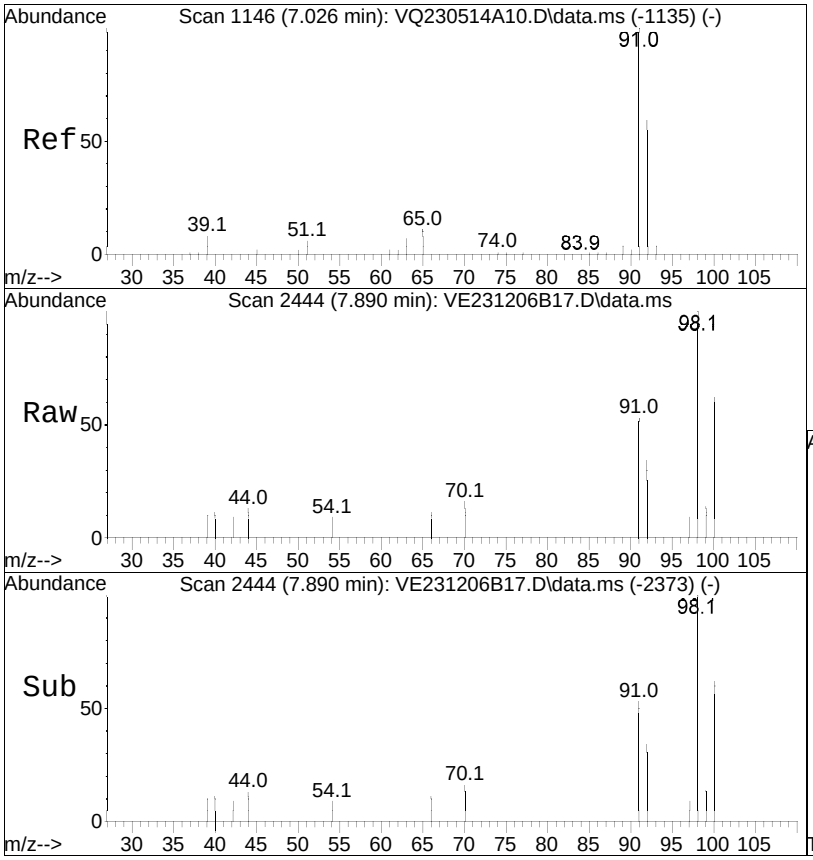


#17
Acetone
Concen: 0.50 ug/L M1
RT: 3.627 min Scan# 912
Delta R.T. -0.003 min
Lab File: VE231206B17.D
Acq: 6 Dec 2023 3:53 pm

Tgt Ion: 43 Resp: 606

Ion	Ratio	Lower	Upper
43	100		
58	4.3	20.2	30.4#

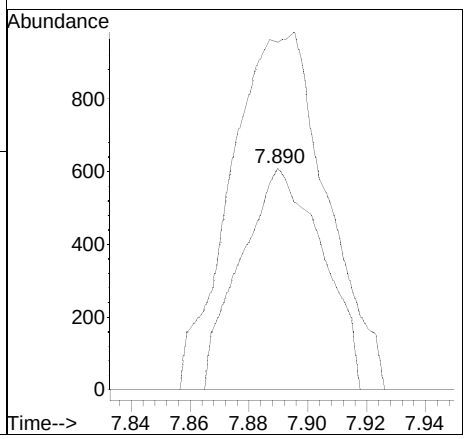




#65
Toluene
Concen: 0.09 ug/L
RT: 7.890 min Scan# 2444
Delta R.T. -0.003 min
Lab File: VE231206B17.D
Acq: 6 Dec 2023 3:53 pm

Tgt Ion: 92 Resp: 1176

Ion	Ratio	Lower	Upper
92	100		
91	188.7	135.9	203.9

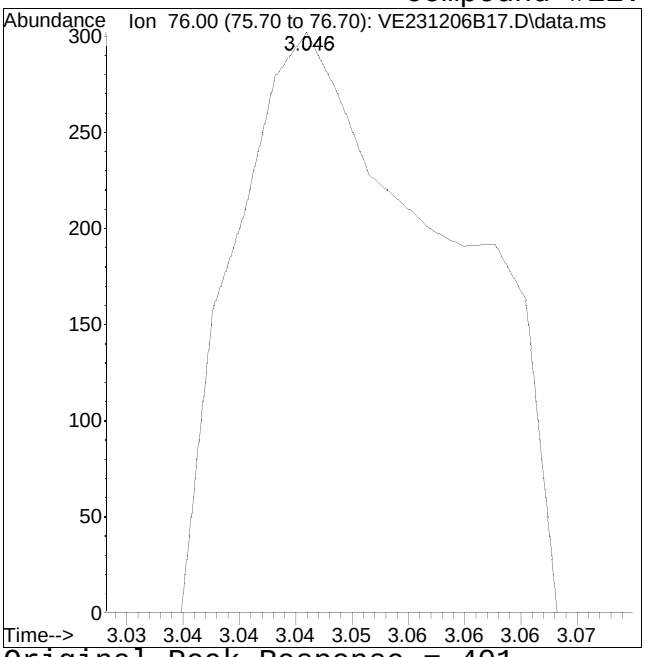


Manual Integration Report

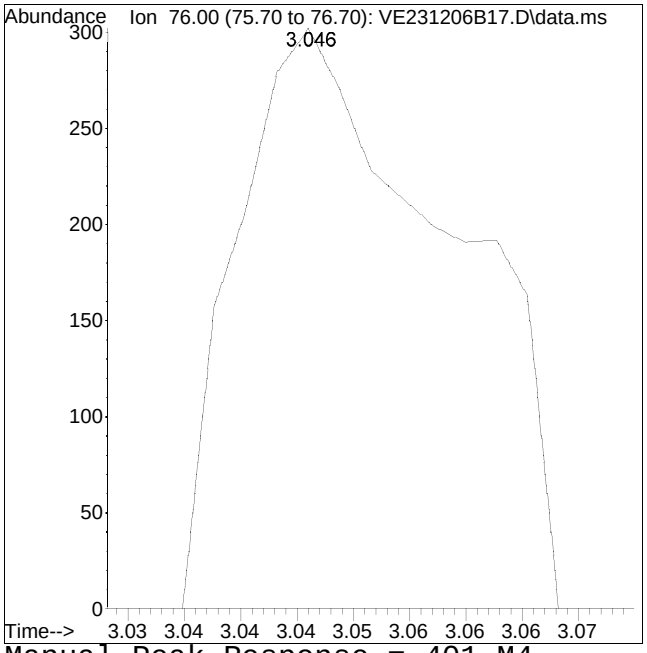
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B17.D
Date Inj'd : 12/6/2023 3:53 pm
Sample : L2370783-11,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 4:17 pm

Compound #11: Carbon disulfide



Original Peak Response = 401



Manual Peak Response = 401 M4

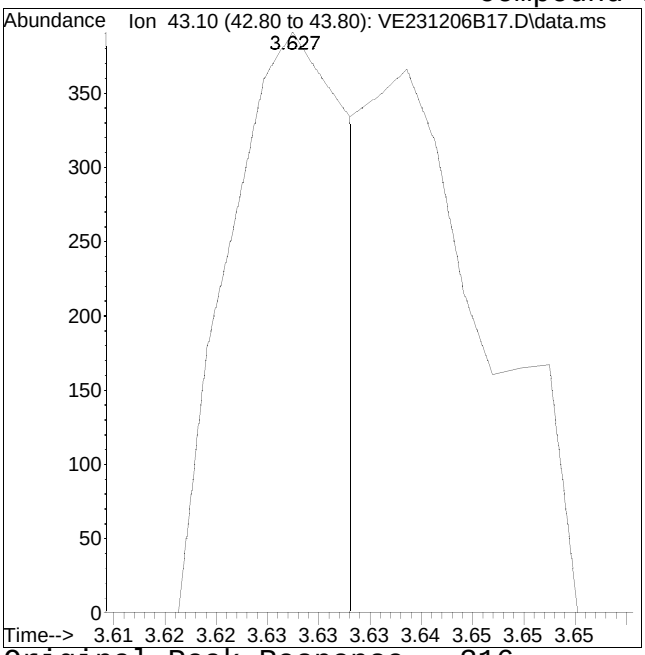
M4 = Poor automated baseline construction.

Manual Integration Report

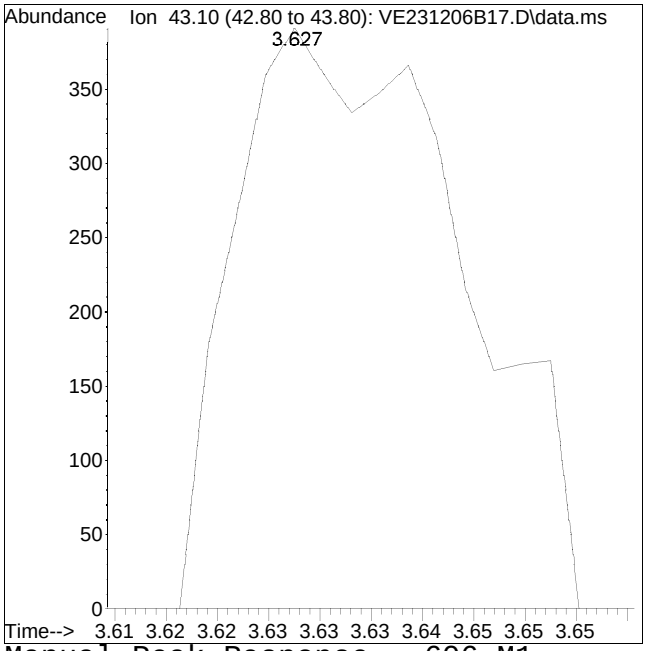
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B17.D
Date Inj'd : 12/6/2023 3:53 pm
Sample : L2370783-11,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 4:17 pm

Compound #17: Acetone



Original Peak Response = 316



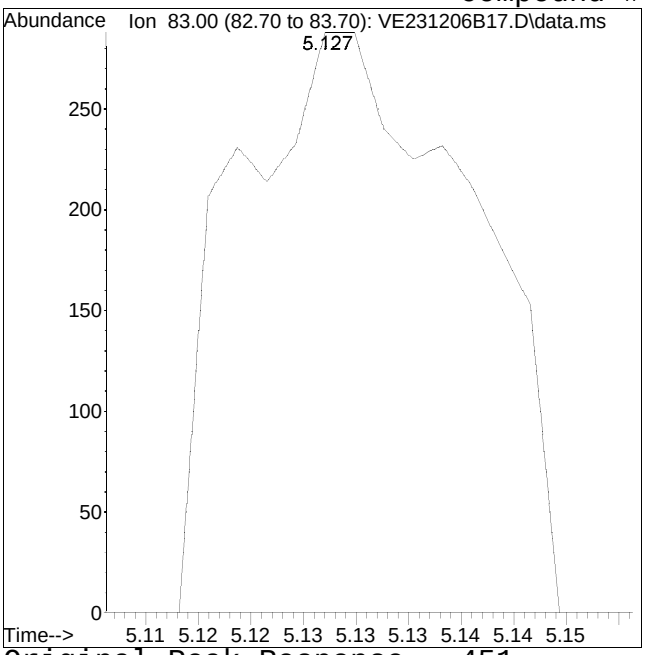
Manual Peak Response = 606 M1

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

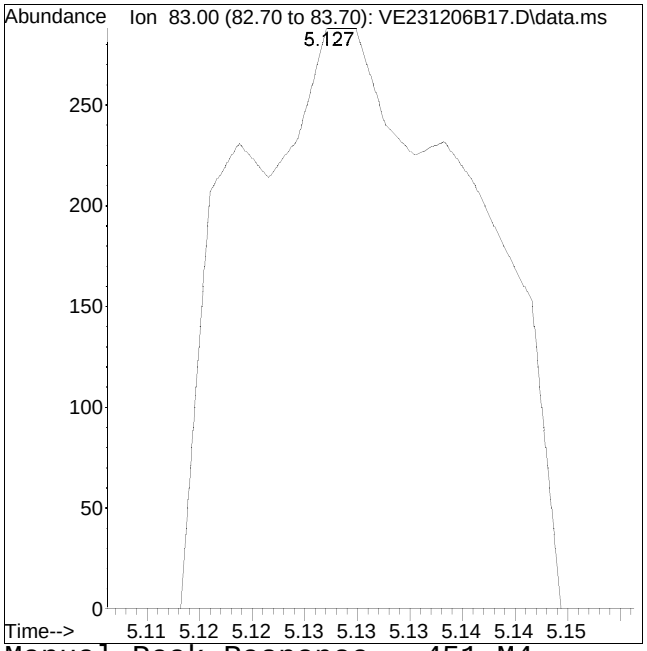
Manual Integration Report

Data Path : K:\Elaine\2023\231206B\ QMethod : Elaine_231127N_8260.m
Data File : VE231206B17.D Operator : ELAINE:RAW
Date Inj'd : 12/6/2023 3:53 pm Instrument : Elaine
Sample : L2370783-11,31,10,10,,A Quant Date : 12/6/2023 4:17 pm

Compound #35: Chloroform



Original Peak Response = 451



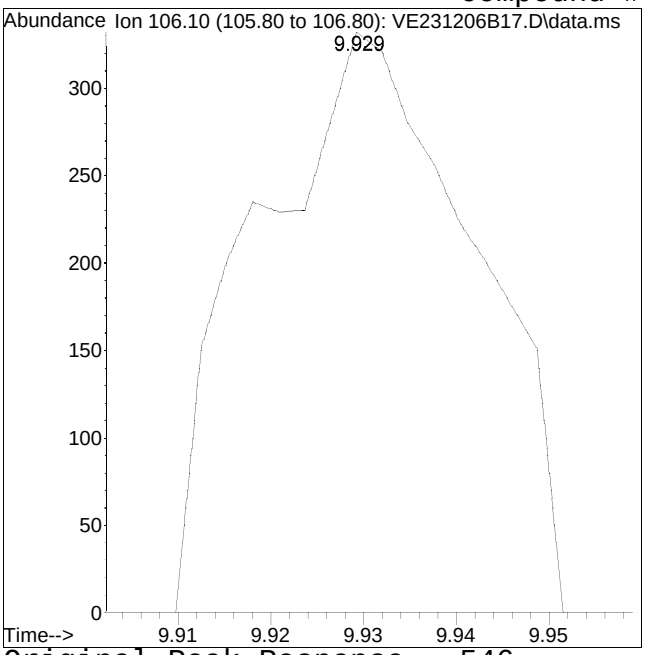
Manual Peak Response = 451 M4

M4 = Poor automated baseline construction.

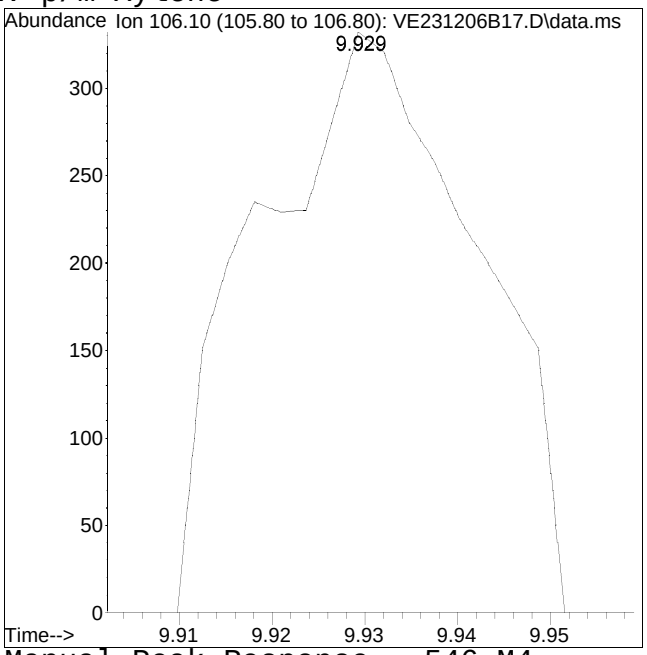
Manual Integration Report

Data Path : K:\Elaine\2023\231206B\ QMethod : Elaine_231127N_8260.m
Data File : VE231206B17.D Operator : ELAINE:RAW
Date Inj'd : 12/6/2023 3:53 pm Instrument : Elaine
Sample : L2370783-11,31,10,10,,A Quant Date : 12/6/2023 4:17 pm

Compound #81: p/m Xylene



Original Peak Response = 546



Manual Peak Response = 546 M4

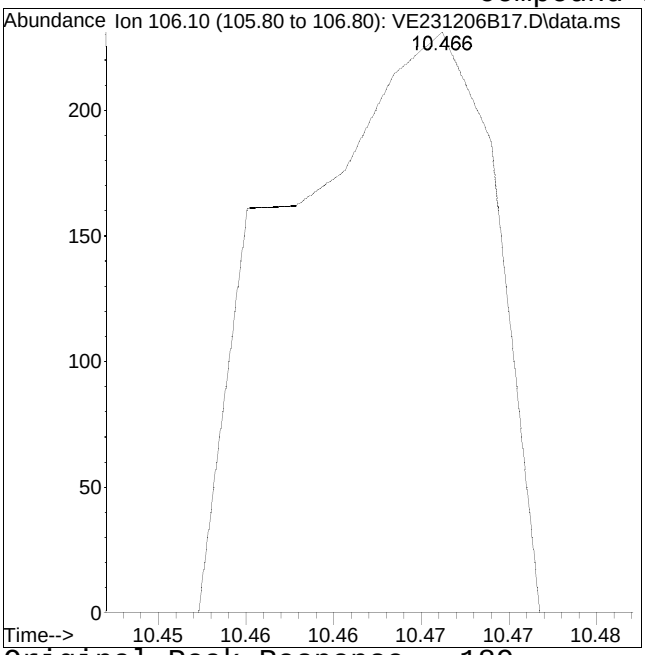
M4 = Poor automated baseline construction.

Manual Integration Report

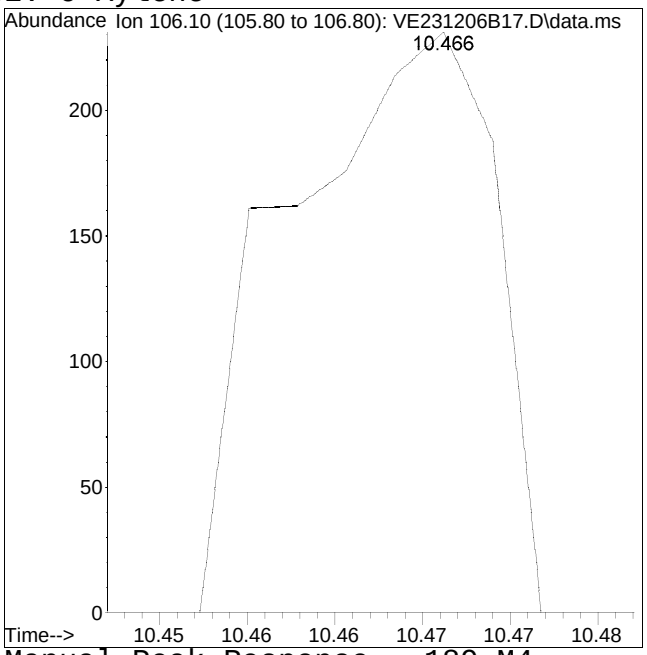
Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B17.D
Date Inj'd : 12/6/2023 3:53 pm
Sample : L2370783-11,31,10,10,,A

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:RAW
Instrument : Elaine
Quant Date : 12/6/2023 4:17 pm

Compound #82: o Xylene



Original Peak Response = 189



Manual Peak Response = 189 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A06.D
Acq On : 7 Dec 2023 8:33 am
Operator : ELAINE:MJV
Sample : L2370783-12,31,10,10,,A
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 09:04:37 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231207A\VE231207A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.126	96	253608	10.000	ug/L	0.00
Standard Area 1 = 294846			Recovery = 86.01%			
63) Chlorobenzene-d5	9.682	117	240507	10.000	ug/L	0.00
Standard Area 1 = 260022			Recovery = 92.49%			
84) 1,4-Dichlorobenzene-d4	12.364	152	135194	10.000	ug/L	0.00
Standard Area 1 = 151851			Recovery = 89.03%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	69350	10.954	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.54%			
47) 1,2-Dichloroethane-d4	5.839	65	67246	9.405	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.05%			
64) Toluene-d8	7.832	98	263164	9.532	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.32%			
88) 4-Bromofluorobenzene	11.162	95	96989	9.483	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.83%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.850	50	409	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.253	94	207	0.102	ug/L	98
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.052	76	889	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.625	43	1430	1.133	ug/L	98
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.672	43	80	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A06.D
Acq On : 7 Dec 2023 8:33 am
Operator : ELAINE:MJV
Sample : L2370783-12,31,10,10,,A
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 09:04:37 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231207A\VE231207A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0	N.D.		
42) 2-Butanone	0.000		0	N.D.		
45) Benzene	0.000		0	N.D.		
48) 1,2-Dichloroethane	0.000		0	N.D.		
51) Methyl cyclohexane	0.000		0	N.D.		
52) Trichloroethene	0.000		0	N.D.		
55) 1,2-Dichloropropane	0.000		0	N.D.		
58) Bromodichloromethane	0.000		0	N.D.		
61) 1,4-Dioxane	0.000		0	N.D.		
62) cis-1,3-Dichloropropene	0.000		0	N.D.		
65) Toluene	7.890	92	84	N.D.		
66) 4-Methyl-2-pentanone	0.000		0	N.D.		
67) Tetrachloroethene	0.000		0	N.D.		
69) trans-1,3-Dichloropropene	0.000		0	N.D.		
72) 1,1,2-Trichloroethane	0.000		0	N.D.		
73) Chlorodibromomethane	0.000		0	N.D.		
75) 1,2-Dibromoethane	0.000		0	N.D.		
77) 2-Hexanone	0.000		0	N.D.		
78) Chlorobenzene	9.721	112	57	N.D.		
79) Ethylbenzene	9.740	91	259	N.D.		
81) p/m Xylene	9.924	106	248	N.D.		
82) o Xylene	0.000		0	N.D.		
83) Styrene	10.528	104	163	N.D.		
85) Bromoform	0.000		0	N.D.		
87) Isopropylbenzene	10.850	105	135	N.D.		
92) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105) 1,3-Dichlorobenzene	12.289	146	396	N.D.		
106) 1,4-Dichlorobenzene	12.380	146	595	N.D.		
109) 1,2-Dichlorobenzene	12.798	146	260	N.D.		
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114) 1,2,4-Trichlorobenzene	14.203	180	605	0.086	ug/L #	77
116) 1,2,3-Trichlorobenzene	14.662	180	314	N.D.		

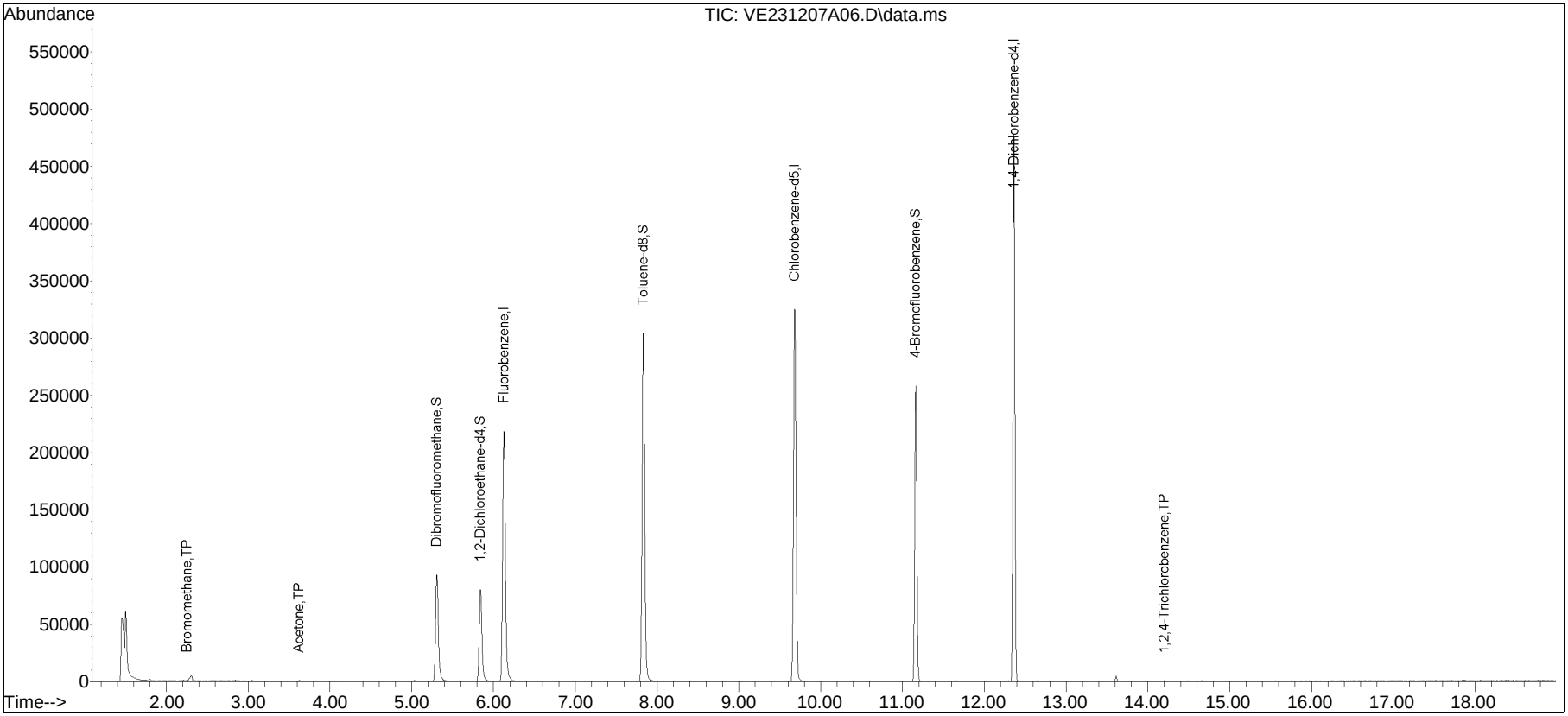
(#) = qualifier out of range (m) = manual integration (+) = signals summed

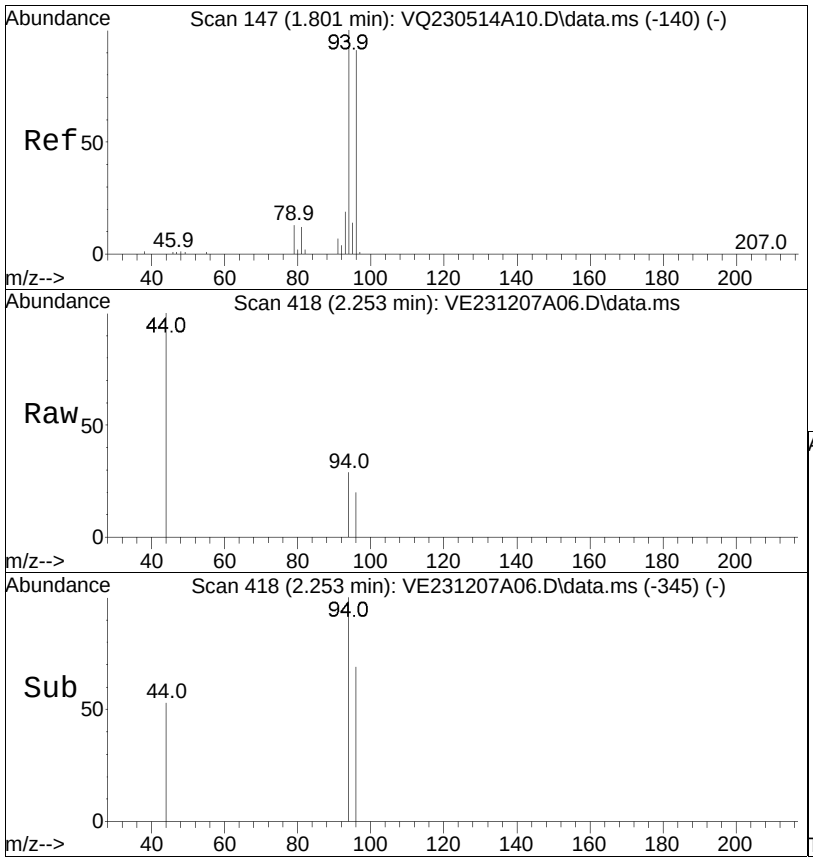
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A06.D
Acq On : 7 Dec 2023 8:33 am
Operator : ELAINE:MJV
Sample : L2370783-12,31,10,10,,A
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 09:04:37 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO•

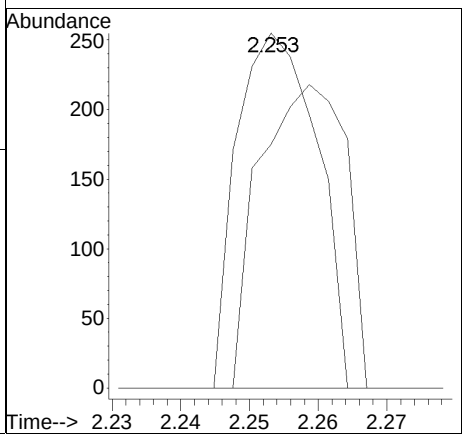


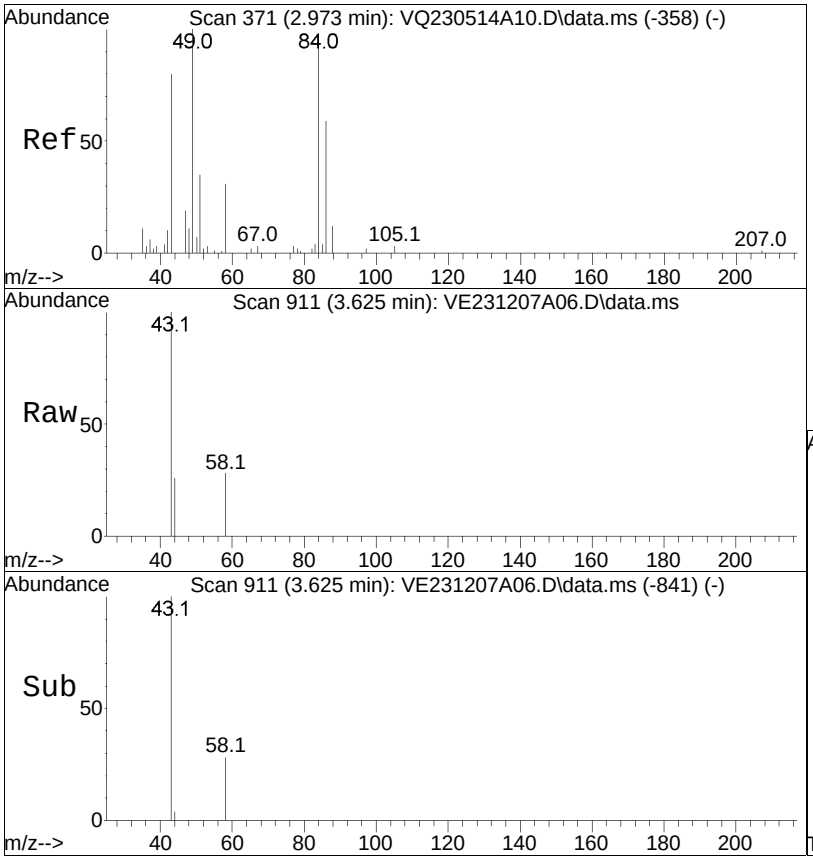


#5
Bromomethane
Concen: 0.10 ug/L
RT: 2.253 min Scan# 418
Delta R.T. 0.003 min
Lab File: VE231207A06.D
Acq: 7 Dec 2023 8:33 am

Tgt Ion: 94 Resp: 207

Ion	Ratio	Lower	Upper
94	100		
96	91.8	73.9	113.9

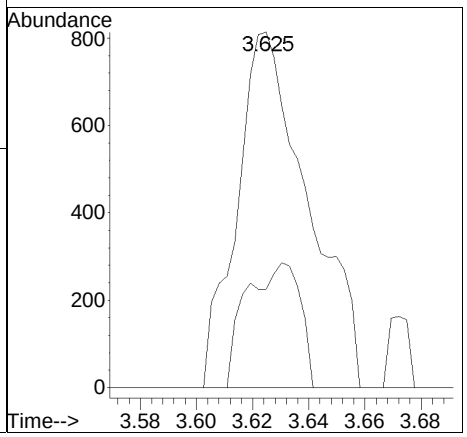


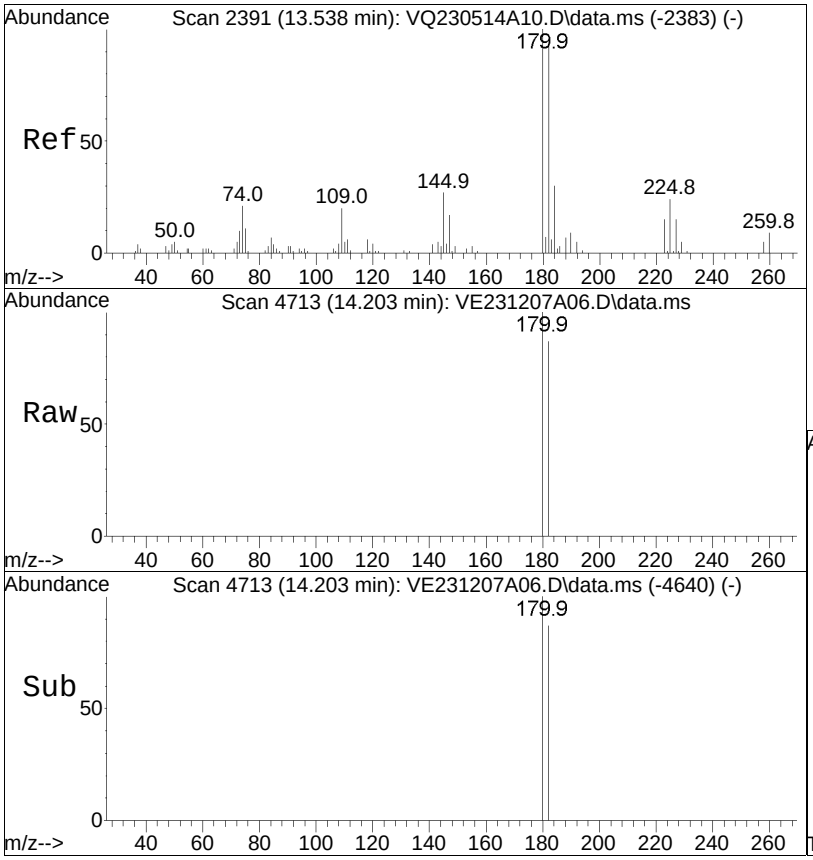


#17
Acetone
Concen: 1.13 ug/L
RT: 3.625 min Scan# 911
Delta R.T. -0.005 min
Lab File: VE231207A06.D
Acq: 7 Dec 2023 8:33 am

Tgt Ion: 43 Resp: 1430

Ion	Ratio	Lower	Upper
43	100		
58	26.5	20.2	30.4

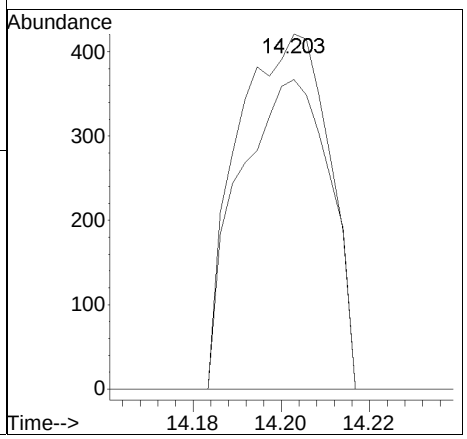




#114
1,2,4-Trichlorobenzene
Concen: 0.09 ug/L
RT: 14.203 min Scan# 4713
Delta R.T. 0.003 min
Lab File: VE231207A06.D
Acq: 7 Dec 2023 8:33 am

Tgt Ion:180 Resp: 605

Ion	Ratio	Lower	Upper
180	100		
182	86.1	76.0	114.0
145	0.0	28.4	42.6#



Manual Integration Report

Data Path	: K:\Elaine\2023\231207A\	QMethod	: Elaine_231127N_8260.m
Data File	: VE231207A06.D	Operator	: ELAINE:MJV
Date Inj'd	: 12/7/2023 8:33 am	Instrument	: Elaine
Sample	: L2370783-12,31,10,10,,A	Quant Date	: 12/7/2023 9:04 am

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: ELAINE**	**Ical Ref**	**: ICAL20595**
Calibration dates	**: 11/27/23 22:33 11/28/23 02:38**		

Calibration Files
L11 =VE231127P03.D L1 =VE231127P05.D L2 =VE231127P07.D L3 =VE231127P09.D L4 =VE231127P10.D
L6 =VE231127P11.D L8 =VE231127P12.D L10 =VE231127P13.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.176	0.290	0.258	0.262	0.260	0.248	0.242	0.248	14.21
3)	TP	Chloromethane		0.229	0.327	0.307	0.287	0.281	0.273	0.282	0.284	10.65
4)	TC	Vinyl chloride	0.232	0.188	0.298	0.276	0.274	0.272	0.264	0.257	0.258	13.14
5)	TP	Bromomethane		0.053	0.075	0.073	0.081	0.091	0.092	0.098	0.080	18.69
6)	TP	Chloroethane		0.103	0.158	0.143	0.146	0.136	0.129	0.109	0.132	15.15
7)	TP	Trichlorofluor		0.193	0.293	0.275	0.286	0.274	0.260	0.250	0.262	12.79
8)	TP	Ethyl ether		0.067	0.080	0.078	0.084	0.081	0.077	0.077	0.078	6.95
10)	TC	1,1-Dichloroet		0.119	0.181	0.170	0.184	0.178	0.171	0.167	0.167	13.25
11)	TP	Carbon disulfide		0.443	0.561	0.556	0.572	0.544	0.521	0.508	0.529	8.33
12)	TP	Freon-113		0.128	0.212	0.203	0.203	0.191	0.184	0.178	0.186	15.13
14)	TP	Acrolein		0.018	0.029	0.029	0.028	0.030	0.029	0.028	0.027	14.41
15)	TP	Methylene chlo		0.238	0.238	0.213	0.206	0.193	0.186	0.184	0.208	10.83
17)	TP	Acetone			0.058	0.050	0.050	0.047	0.048	0.046	0.050	8.40
18)	TP	trans-1,2-Dich		0.154	0.210	0.187	0.198	0.189	0.183	0.182	0.186	9.29
19)	TP	Methyl acetate		0.143	0.127	0.113	0.112	0.110	0.108	0.110	0.117	10.97
21)	TP	Methyl tert butyl ether		0.404	0.444	0.464	0.472	0.465	0.459	0.458	0.452	5.09
22)	TP	tert-Butyl alc		0.010	0.011	0.012	0.012	0.012	0.012	0.012	0.012	7.54
24)	TP	Diisopropyl ether		0.689	0.797	0.836	0.870	0.853	0.832	0.825	0.815	7.36
25)	TP	1,1-Dichloroet		0.331	0.444	0.429	0.424	0.402	0.390	0.391	0.402	9.23
26)	TP	Halothane		0.102	0.167	0.153	0.157	0.151	0.147	0.144	0.146	14.13
27)	TP	Acrylonitrile		0.049	0.056	0.055	0.059	0.055	0.055	0.055	0.055	5.44
28)	TP	Ethyl tert-but		0.564	0.618	0.657	0.682	0.676	0.668	0.669	0.648	6.55
29)	TP	Vinyl acetate		0.326	0.295	0.303	0.378	0.363	0.293	0.275	0.319	12.04
30)	TP	cis-1,2-Dichlo		0.188	0.235	0.218	0.220	0.210	0.211	0.212	0.214	6.60
31)	TP	2,2-Dichloropr		0.218	0.300	0.281	0.285	0.272	0.272	0.271	0.271	9.44
33)	TP	Bromochloromet		0.089	0.102	0.100	0.099	0.092	0.087	0.081	0.093#	8.49
34)	TP	Cyclohexane		0.311	0.500	0.491	0.493	0.480	0.459	0.449	0.455	14.55
35)	TC	Chloroform		0.306	0.395	0.349	0.344	0.325	0.326	0.325	0.338	8.43
36)	TP	Ethyl acetate		0.150	0.158	0.161	0.164	0.164	0.162	0.165	0.161	3.27
37)	TP	Carbon tetrachloride	0.210	0.194	0.285	0.267	0.271	0.269	0.265	0.266	0.253	12.88
38)	TP	Tetrahydrofuran			0.058	0.045	0.044	0.045	0.045	0.045	0.047	11.39
39)	S	Dibromofluoromethane	0.263	0.259	0.261	0.257	0.247	0.237	0.238	0.236	0.250	4.69
40)	TP	1,1,1-Trichlor		0.231	0.346	0.312	0.319	0.310	0.307	0.302	0.304	11.55
42)	TP	2-Butanone			0.074	0.069	0.068	0.072	0.070	0.073	0.071	3.10
43)	TP	1,1-Dichloropr		0.182	0.274	0.273	0.281	0.277	0.270	0.268	0.261	13.48

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: ELAINE**	**Ical Ref**	**: ICAL20595**
Calibration dates	**: 11/27/23 22:33 11/28/23 02:38**		

Calibration Files
L11 =VE231127P03.D L1 =VE231127P05.D L2 =VE231127P07.D L3 =VE231127P09.D L4 =VE231127P10.D
L6 =VE231127P11.D L8 =VE231127P12.D L10 =VE231127P13.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
45) TP	Benzene	0.735	0.658	0.856	0.814	0.835	0.817	0.802	0.800	0.789	8.06
46) TP	Tertiary-Amyl Methyl Ether		0.397	0.444	0.459	0.483	0.491	0.492	0.494	0.466	7.64
47) S	1,2-Dichloroethane-d4	0.293	0.299	0.300	0.300	0.267	0.263	0.266	0.268	0.282	6.18
48) T	1,2-Dichloroet		0.283	0.274	0.258	0.263	0.253	0.248	0.250	0.261	4.96
51) TP	Methyl cyclohe		0.238	0.370	0.360	0.371	0.377	0.359	0.352	0.347	14.07
52) TP	Trichloroethene	0.186	0.143	0.220	0.213	0.214	0.210	0.211	0.209	0.201	12.74
54) TP	Dibromomethane		0.100	0.109	0.105	0.106	0.104	0.103	0.104	0.104	2.71
55) TC	1,2-Dichloropr		0.195	0.239	0.230	0.239	0.236	0.230	0.230	0.228	6.68
57) TP	2-Chloroethyl		0.072	0.081	0.088	0.093	0.093	0.082	0.081	0.084	8.61
58) TP	Bromodichlorom		0.206	0.257	0.262	0.263	0.266	0.261	0.262	0.254#	8.41
61) TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	4.23
62) TP	cis-1,3-Dichlo		0.245	0.300	0.297	0.320	0.320	0.314	0.314	0.302	8.78
63) I	Chlorobenzene-d5	----------ISTD----------									
64) S	Toluene-d8	1.136	1.132	1.144	1.142	1.143	1.149	1.170	1.168	1.148	1.21
65) TC	Toluene		0.471	0.616	0.575	0.590	0.582	0.574	0.573	0.569	7.98
66) TP	4-Methyl-2-pen			0.053	0.060	0.064	0.069	0.070	0.071	0.064	10.46
67) TP	Tetrachloroethene		0.203	0.266	0.256	0.269	0.268	0.263	0.261	0.255	9.22
69) TP	trans-1,3-Dich		0.224	0.274	0.283	0.305	0.309	0.309	0.311	0.288#	11.07
71) TP	Ethyl methacry		0.160	0.183	0.195	0.207	0.213	0.211	0.213	0.197	10.11
72) TP	1,1,2-Trichlor		0.130	0.150	0.147	0.149	0.146	0.145	0.145	0.145#	4.62
73) TP	Chlorodibromom		0.167	0.197	0.196	0.208	0.216	0.220	0.223	0.204	9.55
74) TP	1,3-Dichloropr		0.267	0.310	0.300	0.312	0.311	0.310	0.311	0.303	5.46
75) TP	1,2-Dibromoethane		0.143	0.166	0.165	0.169	0.172	0.173	0.175	0.166#	6.57
77) TP	2-Hexanone		0.105	0.102	0.107	0.116	0.124	0.124	0.124	0.115	8.53
78) TP	Chlorobenzene		0.558	0.670	0.634	0.640	0.628	0.617	0.610	0.623	5.53
79) TC	Ethylbenzene		0.910	1.175	1.126	1.147	1.117	1.091	1.071	1.091	7.96
80) TP	1,1,1,2-Tetrac		0.179	0.220	0.212	0.220	0.221	0.220	0.219	0.213	7.14
81) TP	p/m Xylene		0.330	0.472	0.438	0.441	0.427	0.415	0.397	0.417	10.79
82) TP	o Xylene		0.333	0.436	0.424	0.429	0.412	0.401	0.382	0.402	8.91
83) TP	Styrene		0.486	0.685	0.680	0.683	0.664	0.647	0.619	0.638	11.14
84) I	1,4-Dichlorobenzene-d4	----------ISTD----------									
85) TP	Bromoform		0.190	0.194	0.204	0.211	0.213	0.225	0.235	0.210	7.68
87) TP	Isopropylbenzene		1.360	2.061	1.993	2.066	2.025	2.061	2.086	1.950	13.43
88) S	4-Bromofluorobenzene	0.749	0.743	0.741	0.749	0.748	0.740	0.776	0.806	0.757	3.06
89) TP	Bromobenzene		0.420	0.485	0.476	0.480	0.470	0.482	0.489	0.472	4.99
90) TP	n-Propylbenzene		1.737	2.494	2.386	2.465	2.397	2.396	2.347	2.317	11.25

Initial Calibration Summary
Form 6
Volatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: ELAINE**	**Ical Ref**	**: ICAL20595**
Calibration dates	**: 11/27/23 22:33 11/28/23 02:38**		

Calibration Files
L11 =VE231127P03.D L1 =VE231127P05.D L2 =VE231127P07.D L3 =VE231127P09.D L4 =VE231127P10.D
L6 =VE231127P11.D L8 =VE231127P12.D L10 =VE231127P13.D

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
91) TP	1,4-Dichlorobu		0.555	0.605	0.580	0.587	0.572	0.583	0.594	0.582	2.76
92) TP	1,1,2,2-Tetrac		0.279	0.333	0.306	0.318	0.308	0.310	0.312	0.309	5.17
93) TP	4-Ethyltoluene		1.539	2.018	1.992	2.058	2.003	2.030	1.990	1.947	9.33
94) TP	2-Chlorotoluene		1.156	1.556	1.418	1.447	1.387	1.417	1.418	1.400	8.61
95) TP	1,3,5-Trimethy		1.243	1.733	1.704	1.766	1.728	1.736	1.692	1.657	11.11
96) TP	1,2,3-Trichlor		0.276	0.275	0.270	0.266	0.260	0.266	0.272	0.269	2.08
97) TP	trans-1,4-Dich		0.107	0.102	0.106	0.111	0.109	0.117	0.118	0.110	5.28
98) TP	4-Chlorotoluene		1.171	1.507	1.450	1.485	1.459	1.491	1.491	1.436	8.26
99) TP	tert-Butylbenzene		1.004	1.434	1.443	1.493	1.473	1.462	1.435	1.392	12.38
102) TP	1,2,4-Trimethy		1.344	1.690	1.678	1.746	1.721	1.720	1.695	1.656	8.43
103) TP	sec-Butylbenzene		1.403	2.185	2.091	2.145	2.126	2.100	2.055	2.015	13.55
104) TP	p-Isopropyltol		1.127	1.738	1.752	1.847	1.842	1.808	1.790	1.701	15.07
105) TP	1,3-Dichlorobe		0.837	0.975	0.916	0.948	0.923	0.926	0.919	0.920	4.59
106) TP	1,4-Dichlorobe		0.826	0.992	0.922	0.936	0.926	0.927	0.927	0.922	5.31
107) TP	p-Diethylbenzene		0.700	0.976	0.996	1.087	1.087	1.050	1.079	0.996	13.88
108) TP	n-Butylbenzene		0.952	1.470	1.443	1.516	1.512	1.448	1.490	1.405	14.35
109) TP	1,2-Dichlorobe		0.787	0.870	0.853	0.877	0.862	0.858	0.868	0.854	3.56
110) TP	1,2,4,5-Tetram		0.981	1.326	1.467	1.648	1.607	1.615	1.673	1.474	16.91
111) TP	1,2-Dibromo-3-		0.033	0.047	0.047	0.052	0.052	0.055	0.059	0.049	16.66
112) TP	1,3,5-Trichlor		0.499	0.621	0.605	0.645	0.612	0.628	0.643	0.608	8.22
113) TP	Hexachlorobuta		0.155	0.207	0.195	0.204	0.197	0.200	0.203	0.194	9.18
114) TP	1,2,4-Trichlor		0.438	0.500	0.505	0.550	0.537	0.558	0.550	0.520	8.17
115) TP	Naphthalene		0.844	0.912	1.016	1.121	1.155	1.223	1.237	1.073	14.25
116) TP	1,2,3-Trichlor		0.350	0.432	0.441	0.475	0.485	0.492	0.496	0.453	11.44

Response Factor Report Elaine

Method Path : K:\Elaine\2023\231127P-ICAL\
Method File : Elaine_231127N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Nov 28 12:13:41 2023
Response Via : Initial Calibration

Calibration Files
L11 =VE231127P03.D L1 =VE231127P05.D L2 =VE231127P07.D L3 =VE231127P09.D L4 =VE231127P10.D
L6 =VE231127P11.D L8 =VE231127P12.D L10 =VE231127P13.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo...		0.176	0.290	0.258	0.262	0.260	0.248	0.242	0.248	14.21
3)	TP	Chloromethane		0.229	0.327	0.307	0.287	0.281	0.273	0.282	0.284	10.65
4)	TC	Vinyl chloride	0.232	0.188	0.298	0.276	0.274	0.272	0.264	0.257	0.258	13.14
5)	TP	Bromomethane		0.053	0.075	0.073	0.081	0.091	0.092	0.098	0.080	18.69
6)	TP	Chloroethane		0.103	0.158	0.143	0.146	0.136	0.129	0.109	0.132	15.15
7)	TP	Trichlorofluor...		0.193	0.293	0.275	0.286	0.274	0.260	0.250	0.262	12.79
8)	TP	Ethyl ether		0.067	0.080	0.078	0.084	0.081	0.077	0.077	0.078	6.95
10)	TC	1,1-Dichloroet...		0.119	0.181	0.170	0.184	0.178	0.171	0.167	0.167	13.25
11)	TP	Carbon disulfide		0.443	0.561	0.556	0.572	0.544	0.521	0.508	0.529	8.33
12)	TP	Freon-113		0.128	0.212	0.203	0.203	0.191	0.184	0.178	0.186	15.13
14)	TP	Acrolein		0.018	0.029	0.029	0.028	0.030	0.029	0.028	0.027	14.41
15)	TP	Methylene chlo...		0.238	0.238	0.213	0.206	0.193	0.186	0.184	0.208	10.83
17)	TP	Acetone			0.058	0.050	0.050	0.047	0.048	0.046	0.050	8.40
18)	TP	trans-1,2-Dich...		0.154	0.210	0.187	0.198	0.189	0.183	0.182	0.186	9.29
19)	TP	Methyl acetate		0.143	0.127	0.113	0.112	0.110	0.108	0.110	0.117	10.97
21)	TP	Methyl tert-bu...		0.404	0.444	0.464	0.472	0.465	0.459	0.458	0.452	5.09
22)	TP	tert-Butyl alc...		0.010	0.011	0.012	0.012	0.012	0.012	0.012	0.012	7.54
24)	TP	Diisopropyl ether		0.689	0.797	0.836	0.870	0.853	0.832	0.825	0.815	7.36
25)	TP	1,1-Dichloroet...		0.331	0.444	0.429	0.424	0.402	0.390	0.391	0.402	9.23
26)	TP	Halothane		0.102	0.167	0.153	0.157	0.151	0.147	0.144	0.146	14.13
27)	TP	Acrylonitrile		0.049	0.056	0.055	0.059	0.055	0.055	0.055	0.055	5.44
28)	TP	Ethyl tert-but...		0.564	0.618	0.657	0.682	0.676	0.668	0.669	0.648	6.55
29)	TP	Vinyl acetate		0.326	0.295	0.303	0.378	0.363	0.293	0.275	0.319	12.04
30)	TP	cis-1,2-Dichlo...		0.188	0.235	0.218	0.220	0.210	0.211	0.212	0.214	6.60
31)	TP	2,2-Dichloropr...		0.218	0.300	0.281	0.285	0.272	0.272	0.271	0.271	9.44
33)	TP	Bromochloromet...		0.089	0.102	0.100	0.099	0.092	0.087	0.081	0.093#	8.49
34)	TP	Cyclohexane		0.311	0.500	0.491	0.493	0.480	0.459	0.449	0.455	14.55
35)	TC	Chloroform		0.306	0.395	0.349	0.344	0.325	0.326	0.325	0.338	8.43
36)	TP	Ethyl acetate		0.150	0.158	0.161	0.164	0.164	0.162	0.165	0.161	3.27
37)	TP	Carbon tetrach...	0.210	0.194	0.285	0.267	0.271	0.269	0.265	0.266	0.253	12.88

Method Path : K:\Elaine\2023\231127P-ICAL\
Method File : Elaine_231127N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Nov 28 12:13:41 2023
Response Via : Initial Calibration

Calibration Files
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L6 =VE231127P11.D L8 =VE231127P12.D L10 =VE231127P13.D

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
38)	TP	Tetrahydrofuran		0.058	0.045	0.044	0.045	0.045	0.045	0.047	11.39	
39)	S	Dibromofluorom...	0.263	0.259	0.261	0.257	0.247	0.237	0.238	0.236	0.250	4.69
40)	TP	1,1,1-Trichlor...		0.231	0.346	0.312	0.319	0.310	0.307	0.302	0.304	11.55
42)	TP	2-Butanone			0.074	0.069	0.068	0.072	0.070	0.073	0.071	3.10
43)	TP	1,1-Dichloropr...		0.182	0.274	0.273	0.281	0.277	0.270	0.268	0.261	13.48
45)	TP	Benzene	0.735	0.658	0.856	0.814	0.835	0.817	0.802	0.800	0.789	8.06
46)	TP	tert-Amyl meth...		0.397	0.444	0.459	0.483	0.491	0.492	0.494	0.466	7.64
47)	S	1,2-Dichloroet...	0.293	0.299	0.300	0.300	0.267	0.263	0.266	0.268	0.282	6.18
48)	T	1,2-Dichloroet...		0.283	0.274	0.258	0.263	0.253	0.248	0.250	0.261	4.96
51)	TP	Methyl cyclohe...		0.238	0.370	0.360	0.371	0.377	0.359	0.352	0.347	14.07
52)	TP	Trichloroethene	0.186	0.143	0.220	0.213	0.214	0.210	0.211	0.209	0.201	12.74
54)	TP	Dibromomethane		0.100	0.109	0.105	0.106	0.104	0.103	0.104	0.104	2.71
55)	TC	1,2-Dichloropr...		0.195	0.239	0.230	0.239	0.236	0.230	0.230	0.228	6.68
57)	TP	2-Chloroethyl ...		0.072	0.081	0.088	0.093	0.093	0.082	0.081	0.084	8.61
58)	TP	Bromodichlorom...		0.206	0.257	0.262	0.263	0.266	0.261	0.262	0.254#	8.41
61)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	4.23
62)	TP	cis-1,3-Dichlo...		0.245	0.300	0.297	0.320	0.320	0.314	0.314	0.302	8.78
63)	I	Chlorobenzene-d5	----------ISTD----------									
64)	S	Toluene-d8	1.136	1.132	1.144	1.142	1.143	1.149	1.170	1.168	1.148	1.21
65)	TC	Toluene		0.471	0.616	0.575	0.590	0.582	0.574	0.573	0.569	7.98
66)	TP	4-Methyl-2-pen...			0.053	0.060	0.064	0.069	0.070	0.071	0.064	10.46
67)	TP	Tetrachloroethene		0.203	0.266	0.256	0.269	0.268	0.263	0.261	0.255	9.22
69)	TP	trans-1,3-Dich...		0.224	0.274	0.283	0.305	0.309	0.309	0.311	0.288#	11.07
71)	TP	Ethyl methacry...		0.160	0.183	0.195	0.207	0.213	0.211	0.213	0.197	10.11
72)	TP	1,1,2-Trichlor...		0.130	0.150	0.147	0.149	0.146	0.145	0.145	0.145#	4.62
73)	TP	Chlorodibromom...		0.167	0.197	0.196	0.208	0.216	0.220	0.223	0.204	9.55
74)	TP	1,3-Dichloropr...		0.267	0.310	0.300	0.312	0.311	0.310	0.311	0.303	5.46
75)	TP	1,2-Dibromoethane		0.143	0.166	0.165	0.169	0.172	0.173	0.175	0.166#	6.57
77)	TP	2-Hexanone		0.105	0.102	0.107	0.116	0.124	0.124	0.124	0.115	8.53
78)	TP	Chlorobenzene		0.558	0.670	0.634	0.640	0.628	0.617	0.610	0.623	5.53
79)	TC	Ethylbenzene		0.910	1.175	1.126	1.147	1.117	1.091	1.071	1.091	7.96

Response Factor Report Elaine

Method Path : K:\Elaine\2023\231127P-ICAL\
Method File : Elaine_231127N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Nov 28 12:13:41 2023
Response Via : Initial Calibration

Calibration Files
L11 =VE231127P03.D L1 =VE231127P05.D L2 =VE231127P07.D L3 =VE231127P09.D L4 =VE231127P10.D
L6 =VE231127P11.D L8 =VE231127P12.D L10 =VE231127P13.D

	Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
80)	TP	1,1,1,2-Tetrac...		0.179	0.220	0.212	0.220	0.221	0.220	0.219	0.213	7.14
81)	TP	p/m Xylene		0.330	0.472	0.438	0.441	0.427	0.415	0.397	0.417	10.79
82)	TP	o Xylene		0.333	0.436	0.424	0.429	0.412	0.401	0.382	0.402	8.91
83)	TP	Styrene		0.486	0.685	0.680	0.683	0.664	0.647	0.619	0.638	11.14
84)	I	1,4-Dichlorobenzene-d4		----------ISTD----------								
85)	TP	Bromoform		0.190	0.194	0.204	0.211	0.213	0.225	0.235	0.210	7.68
87)	TP	Isopropylbenzene		1.360	2.061	1.993	2.066	2.025	2.061	2.086	1.950	13.43
88)	S	4-Bromofluorob...	0.749	0.743	0.741	0.749	0.748	0.740	0.776	0.806	0.757	3.06
89)	TP	Bromobenzene		0.420	0.485	0.476	0.480	0.470	0.482	0.489	0.472	4.99
90)	TP	n-Propylbenzene		1.737	2.494	2.386	2.465	2.397	2.396	2.347	2.317	11.25
91)	TP	1,4-Dichlorobu...		0.555	0.605	0.580	0.587	0.572	0.583	0.594	0.582	2.76
92)	TP	1,1,2,2-Tetrac...		0.279	0.333	0.306	0.318	0.308	0.310	0.312	0.309	5.17
93)	TP	4-Ethyltoluene		1.539	2.018	1.992	2.058	2.003	2.030	1.990	1.947	9.33
94)	TP	2-Chlorotoluene		1.156	1.556	1.418	1.447	1.387	1.417	1.418	1.400	8.61
95)	TP	1,3,5-Trimethy...		1.243	1.733	1.704	1.766	1.728	1.736	1.692	1.657	11.11
96)	TP	1,2,3-Trichlor...		0.276	0.275	0.270	0.266	0.260	0.266	0.272	0.269	2.08
97)	TP	trans-1,4-Dich...		0.107	0.102	0.106	0.111	0.109	0.117	0.118	0.110	5.28
98)	TP	4-Chlorotoluene		1.171	1.507	1.450	1.485	1.459	1.491	1.491	1.436	8.26
99)	TP	tert-Butylbenzene		1.004	1.434	1.443	1.493	1.473	1.462	1.435	1.392	12.38
102)	TP	1,2,4-Trimethy...		1.344	1.690	1.678	1.746	1.721	1.720	1.695	1.656	8.43
103)	TP	sec-Butylbenzene		1.403	2.185	2.091	2.145	2.126	2.100	2.055	2.015	13.55
104)	TP	p-Isopropyltol...		1.127	1.738	1.752	1.847	1.842	1.808	1.790	1.701	15.07
105)	TP	1,3-Dichlorobe...		0.837	0.975	0.916	0.948	0.923	0.926	0.919	0.920	4.59
106)	TP	1,4-Dichlorobe...		0.826	0.992	0.922	0.936	0.926	0.927	0.927	0.922	5.31
107)	TP	p-Diethylbenzene		0.700	0.976	0.996	1.087	1.087	1.050	1.079	0.996	13.88
108)	TP	n-Butylbenzene		0.952	1.470	1.443	1.516	1.512	1.448	1.490	1.405	14.35
109)	TP	1,2-Dichlorobe...		0.787	0.870	0.853	0.877	0.862	0.858	0.868	0.854	3.56
110)	TP	1,2,4,5-Tetram...		0.981	1.326	1.467	1.648	1.607	1.615	1.673	1.474	16.91
111)	TP	1,2-Dibromo-3-...		0.033	0.047	0.047	0.052	0.052	0.055	0.059	0.049	16.66
112)	TP	1,3,5-Trichlor...		0.499	0.621	0.605	0.645	0.612	0.628	0.643	0.608	8.22
113)	TP	Hexachlorobuta...		0.155	0.207	0.195	0.204	0.197	0.200	0.203	0.194	9.18

Method Path : K:\Elaine\2023\231127P-ICAL\
Method File : Elaine_231127N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Nov 28 12:13:41 2023
Response Via : Initial Calibration

Calibration Files
L11 =VE231127P03.D L1 =VE231127P05.D L2 =VE231127P07.D L3 =VE231127P09.D L4 =VE231127P10.D
L6 =VE231127P11.D L8 =VE231127P12.D L10 =VE231127P13.D

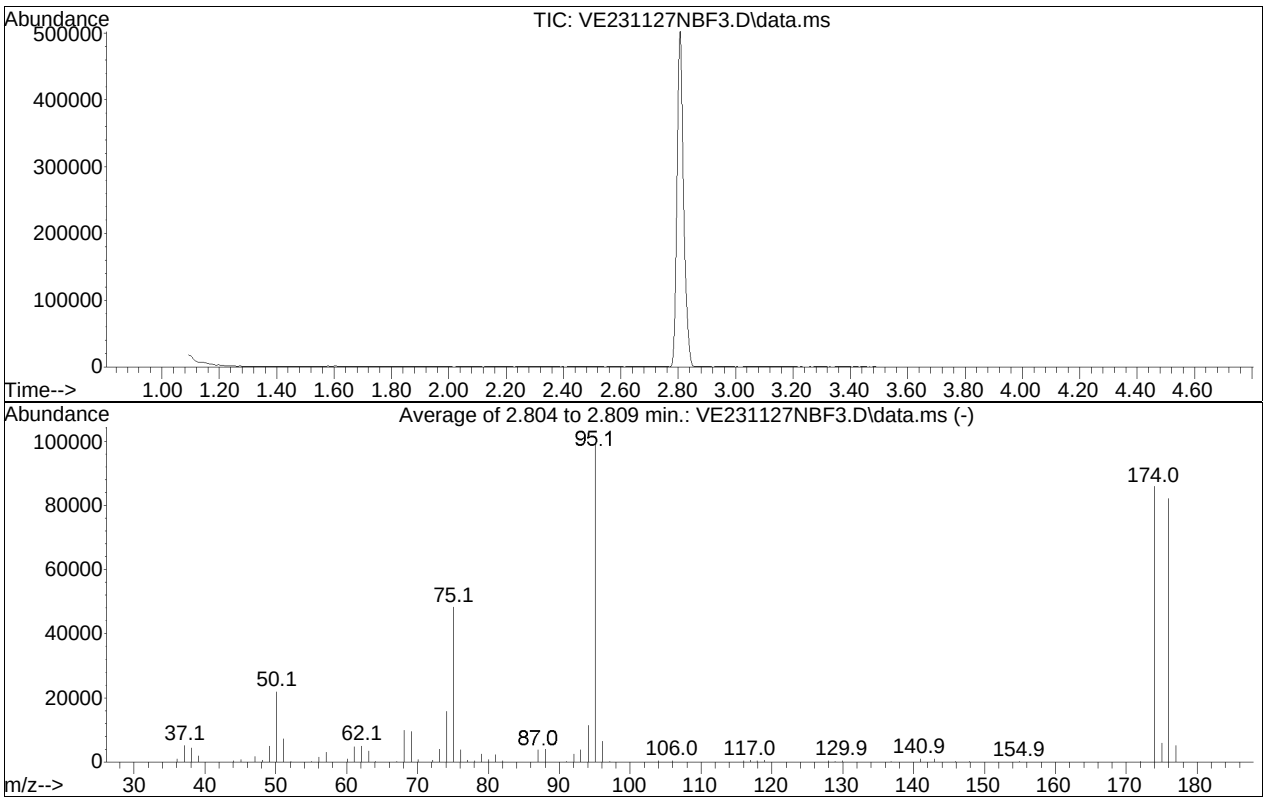
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
114)	TP 1,2,4-Trichlor...	0.438	0.500	0.505	0.550	0.537	0.558	0.550	0.520	8.17	
115)	TP Naphthalene	0.844	0.912	1.016	1.121	1.155	1.223	1.237	1.073	14.25	
116)	TP 1,2,3-Trichlor...	0.350	0.432	0.441	0.475	0.485	0.492	0.496	0.453	11.44	

(#) = Out of Range

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127NBF3.D
Acq On : 27 Nov 2023 9:25 pm
Operator : ELAINE:MAG
Sample : WG1857075-1
Misc : WG1857075
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Nov 28 12:13:41 2023



AutoFind: Scans 616, 617, 618; Background Corrected with Scan 602

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	21872	PASS
75	95	30	60	48.7	48413	PASS
95	95	100	100	100.0	99501	PASS
96	95	5	9	6.4	6360	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	86.2	85765	PASS
175	174	5	9	7.0	5972	PASS
176	174	95	101	95.7	82040	PASS
177	176	5	9	6.4	5221	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P03.D
Acq On : 27 Nov 2023 10:33 pm
Operator : ELAINE:PID
Sample : I8260STD0.19PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:13 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.131	96	356303	10.000 ug/L	0.00
Standard Area 1 = 338625			Recovery = 105.22%		
63) Chlorobenzene-d5	9.684	117	317397	10.000 ug/L	0.00
Standard Area 1 = 298875			Recovery = 106.20%		
84) 1,4-Dichlorobenzene-d4	12.364	152	177985	10.000 ug/L	0.00
Standard Area 1 = 169300			Recovery = 105.13%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.311	113	93628	10.527 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.27%		
47) 1,2-Dichloroethane-d4	5.842	65	104398	10.393 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.93%		
64) Toluene-d8	7.834	98	360517	9.894 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.94%		
88) 4-Bromofluorobenzene	11.165	95	133267	9.897 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.97%		
Target Compounds					Qvalue
4) Vinyl chloride	1.930	62	1568	0.171 ug/L	82
37) Carbon tetrachloride	5.274	117	1425M1	0.158 ug/L	
45) Benzene	5.706	78	4973	0.177 ug/L #	81
52) Trichloroethene	6.304	95	1260	0.176 ug/L	86

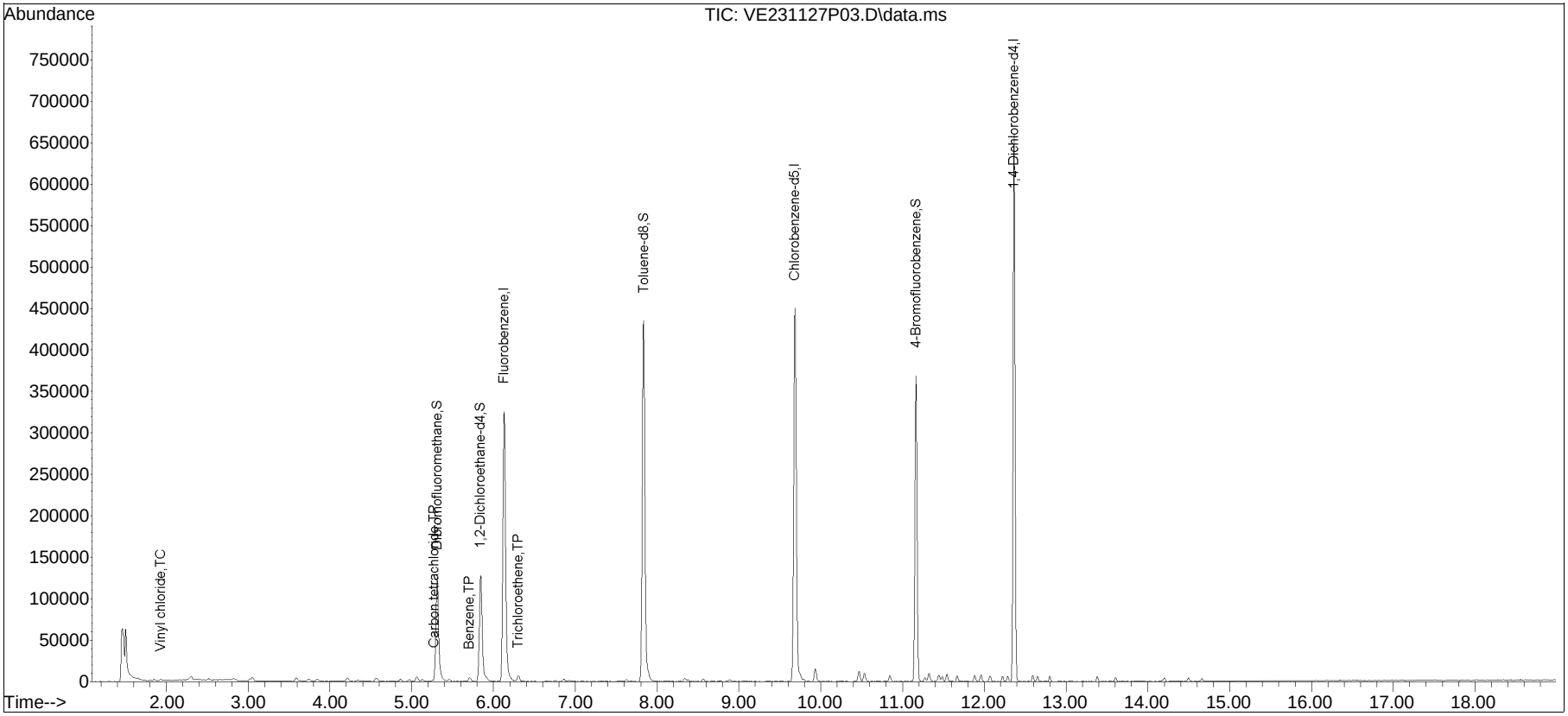
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P03.D
Acq On : 27 Nov 2023 10:33 pm
Operator : ELAINE:PID
Sample : I8260STD0.19PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:13 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

Sub List : 8260-L11 - Level 11 for 8260-LRR productP09.D•

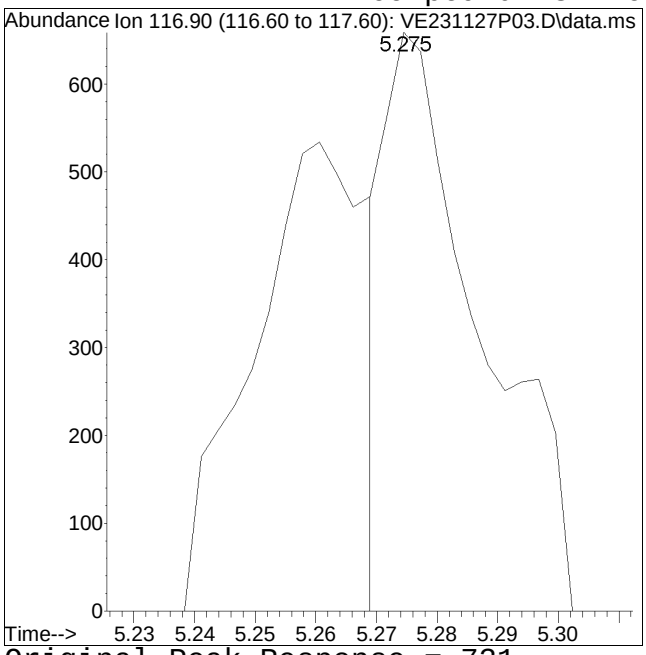


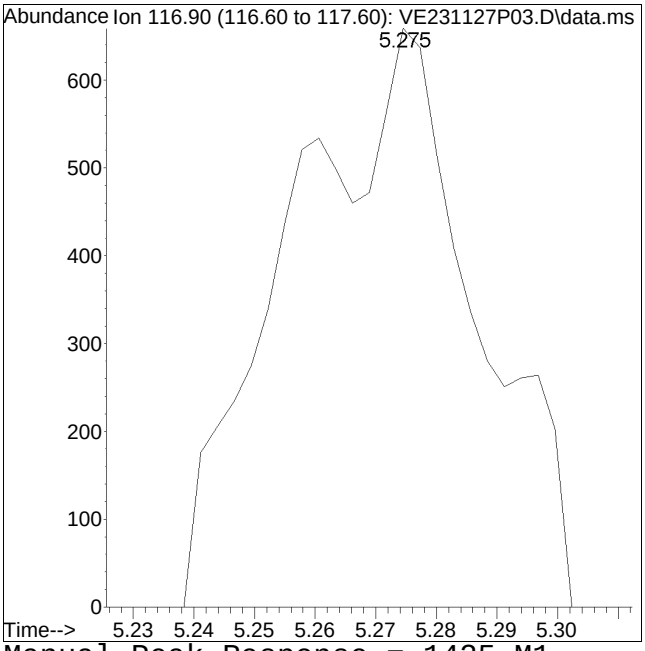
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQ
Data File : VE231127P03.D
Date Inj'd : 11/27/2023 10:33 pm
Sample : I8260STD0.19PPB

Method : Elaine_231127N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 11/28/2023 12:01 pm

Compound #37: Carbon tetrachloride





Original Peak Response = 731 Manual Peak Response = 1425 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P05.D
Acq On : 27 Nov 2023 11:22 pm
Operator : ELAINE:PID
Sample : I8260STD0.5PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:23 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.129	96	339688	10.000 ug/L	0.00
Standard Area 1 = 338625			Recovery = 100.31%		
63) Chlorobenzene-d5	9.687	117	306236	10.000 ug/L	0.00
Standard Area 1 = 298875			Recovery = 102.46%		
84) 1,4-Dichlorobenzene-d4	12.364	152	174360	10.000 ug/L	0.00
Standard Area 1 = 169300			Recovery = 102.99%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.311	113	88094	10.389 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.89%		
47) 1,2-Dichloroethane-d4	5.842	65	101503	10.599 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.99%		
64) Toluene-d8	7.834	98	346663	9.861 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.61%		
88) 4-Bromofluorobenzene	11.164	95	129569	9.823 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.23%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.655	85	2986	0.355 ug/L #	95
3) Chloromethane	1.852	50	3894	0.404 ug/L	95
4) Vinyl chloride	1.933	62	3193	0.365 ug/L	93
5) Bromomethane	2.253	94	906	0.332 ug/L	94
6) Chloroethane	2.375	64	1744M1	0.389 ug/L	
7) Trichlorofluoromethane	2.523	101	3283	0.370 ug/L	89
8) Ethyl ether	2.823	74	1134	0.429 ug/L #	47
10) 1,1-Dichloroethene	3.018	96	2017	0.356 ug/L	84
11) Carbon disulfide	3.049	76	7531	0.419 ug/L	96
12) Freon-113	3.051	101	2177M1	0.345 ug/L	
14) Acrolein	3.346	56	314	0.338 ug/L	97
15) Methylene chloride	3.586	84	4034	0.570 ug/L	78
17) Acetone	3.636	43	1495	0.797 ug/L #	89
18) trans-1,2-Dichloroethene	3.741	96	2615	0.414 ug/L	92
19) Methyl acetate	3.755	43	2424	0.607 ug/L #	59
21) Methyl tert-butyl ether	3.847	73	6855	0.446 ug/L #	86
22) tert-Butyl alcohol	3.933	59	836M1	2.140 ug/L	
24) Diisopropyl ether	4.212	45	11698	0.423 ug/L #	90
25) 1,1-Dichloroethane	4.342	63	5628	0.412 ug/L	98
26) Halothane	4.390	117	1734	0.350 ug/L	90
27) Acrylonitrile	4.384	53	832M1	0.445 ug/L	

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P05.D
Acq On : 27 Nov 2023 11:22 pm
Operator : ELAINE:PID
Sample : I8260STD0.5PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:23 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Ethyl tert-butyl ether	4.565	59	9582	0.435	ug/L		89
29) Vinyl acetate	4.576	43	5538	0.511	ug/L	#	82
30) cis-1,2-Dichloroethene	4.863	96	3199	0.441	ug/L	#	85
31) 2,2-Dichloropropane	4.966	77	3706	0.402	ug/L	#	66
33) Bromochloromethane	5.057	128	1511	0.479	ug/L	#	56
34) Cyclohexane	5.060	56	5277	0.342	ug/L		80
35) Chloroform	5.132	83	5190	0.451	ug/L	#	93
36) Ethyl acetate	5.247	43	2551M1	0.467	ug/L		
37) Carbon tetrachloride	5.277	117	3291M3	0.382	ug/L		
38) Tetrahydrofuran	0.000		0	N.D.	d		
40) 1,1,1-Trichloroethane	5.336	97	3924	0.380	ug/L	#	94
42) 2-Butanone	0.000		0	N.D.	d		
43) 1,1-Dichloropropene	5.458	75	3085	0.348	ug/L		90
45) Benzene	5.708	78	11179	0.417	ug/L		95
46) tert-Amyl methyl ether	5.825	73	6750	0.427	ug/L	#	81
48) 1,2-Dichloroethane	5.917	62	4807	0.541	ug/L		94
51) Methyl cyclohexane	6.301	83	4038	0.343	ug/L		82
52) Trichloroethene	6.309	95	2421	0.355	ug/L		94
54) Dibromomethane	6.749	93	1690	0.477	ug/L	#	87
55) 1,2-Dichloropropane	6.857	63	3311	0.427	ug/L	#	82
57) 2-Chloroethyl vinyl ether	7.550	63	1231M1	0.429	ug/L		
58) Bromodichloromethane	6.933	83	3496M3	0.405	ug/L		
61) 1,4-Dioxane	7.141	88	3789	94.610	ug/L	#	82
62) cis-1,3-Dichloropropene	7.625	75	4166	0.407	ug/L		92
65) Toluene	7.892	92	7219	0.415	ug/L		99
66) 4-Methyl-2-pentanone	0.000		0	N.D.	d		
67) Tetrachloroethene	8.343	166	3105	0.397	ug/L	#	77
69) trans-1,3-Dichloropropene	8.374	75	3425	0.389	ug/L		93
71) Ethyl methacrylate	8.563	69	2449	0.405	ug/L		83
72) 1,1,2-Trichloroethane	8.560	83	1993	0.450	ug/L		93
73) Chlorodibromomethane	8.772	129	2551	0.408	ug/L		85
74) 1,3-Dichloropropane	8.891	76	4084M3	0.440	ug/L		
75) 1,2-Dibromoethane	9.064	107	2190	0.430	ug/L		94
77) 2-Hexanone	9.348	43	1609	0.458	ug/L	#	81
78) Chlorobenzene	9.712	112	8541	0.448	ug/L	#	68
79) Ethylbenzene	9.745	91	13935	0.417	ug/L		97
80) 1,1,1,2-Tetrachloroethane	9.793	131	2747	0.421	ug/L	#	65
81) p/m Xylene	9.937	106	10094	0.790	ug/L		91
82) o Xylene	10.469	106	10183	0.826	ug/L		91
83) Styrene	10.533	104	14877	0.762	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P05.D
Acq On : 27 Nov 2023 11:22 pm
Operator : ELAINE:PID
Sample : I8260STD0.5PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:23 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85) Bromoform	10.561	173	1660	0.453	ug/L		95
87) Isopropylbenzene	10.847	105	11860	0.349	ug/L		98
89) Bromobenzene	11.276	156	3662	0.445	ug/L		95
90) n-Propylbenzene	11.320	91	15143	0.375	ug/L		99
91) 1,4-Dichlorobutane	11.340	55	4841	0.477	ug/L	#	80
92) 1,1,2,2-Tetrachloroethane	11.398	83	2434	0.451	ug/L		96
93) 4-Ethyltoluene	11.445	105	13416	0.395	ug/L		97
94) 2-Chlorotoluene	11.487	91	10079	0.413	ug/L		95
95) 1,3,5-Trimethylbenzene	11.543	105	10838	0.375	ug/L		99
96) 1,2,3-Trichloropropane	11.537	75	2402	0.512	ug/L	#	78
97) trans-1,4-Dichloro-2-b...	11.590	53	932	0.486	ug/L	#	57
98) 4-Chlorotoluene	11.665	91	10210	0.408	ug/L		96
99) tert-Butylbenzene	11.879	119	8755	0.361	ug/L		100
102) 1,2,4-Trimethylbenzene	11.957	105	11716	0.406	ug/L		97
103) sec-Butylbenzene	12.071	105	12233	0.348	ug/L		94
104) p-Isopropyltoluene	12.224	119	9826	0.331	ug/L		98
105) 1,3-Dichlorobenzene	12.286	146	7298	0.455	ug/L		96
106) 1,4-Dichlorobenzene	12.380	146	7203M3	0.448	ug/L		
107) p-Diethylbenzene	12.592	119	6100	0.351	ug/L		98
108) n-Butylbenzene	12.650	91	8301	0.339	ug/L		96
109) 1,2-Dichlorobenzene	12.798	146	6863	0.461	ug/L		99
110) 1,2,4,5-Tetramethylben...	13.382	119	8551	0.333	ug/L		92
111) 1,2-Dibromo-3-chloropr...	13.579	155	290	0.338	ug/L		79
112) 1,3,5-Trichlorobenzene	13.604	180	4353	0.411	ug/L		92
113) Hexachlorobutadiene	14.175	225	1351	0.398	ug/L		98
114) 1,2,4-Trichlorobenzene	14.203	180	3820	0.421	ug/L	#	90
115) Naphthalene	14.495	128	7354	0.393	ug/L		100
116) 1,2,3-Trichlorobenzene	14.659	180	3052	0.386	ug/L		93

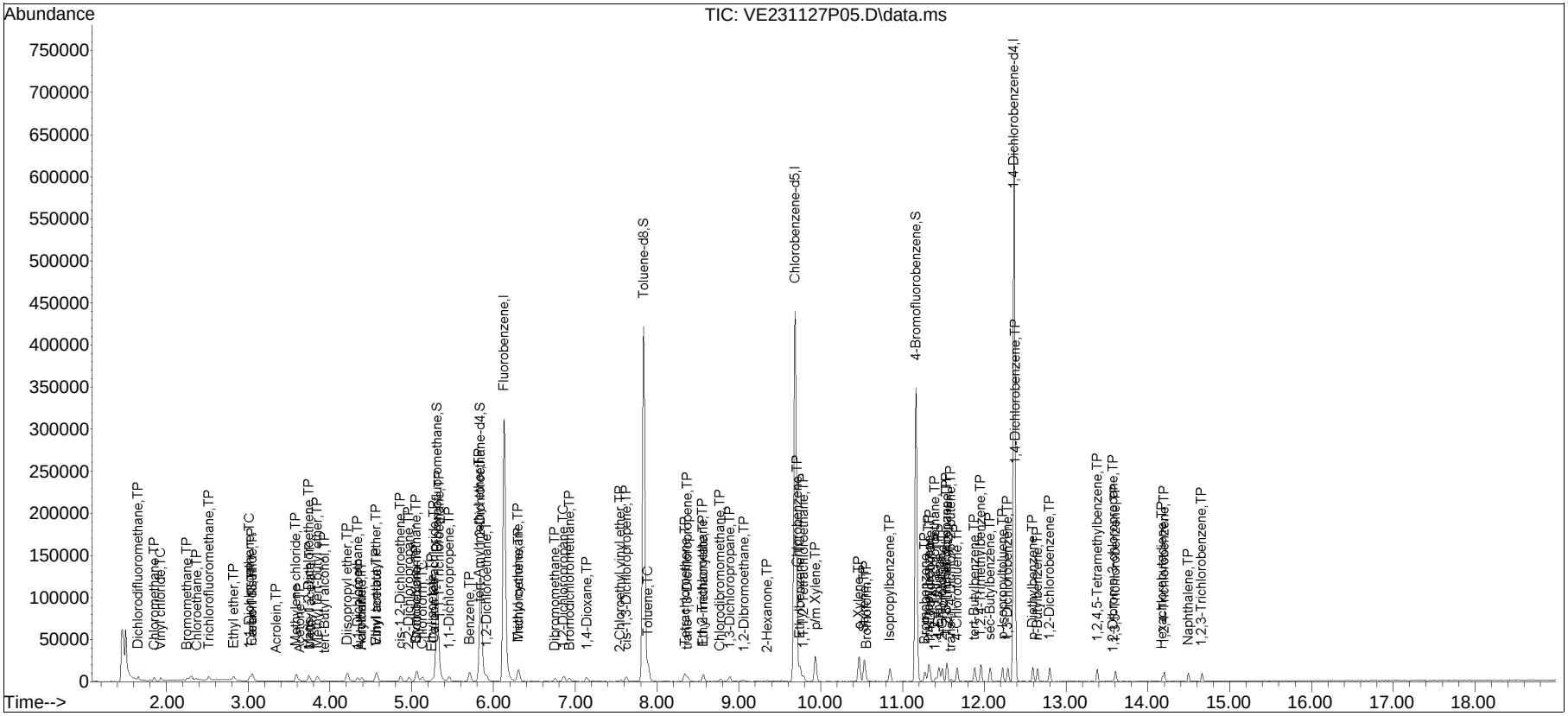
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P05.D
Acq On : 27 Nov 2023 11:22 pm
Operator : ELAINE:PID
Sample : I8260STD0.5PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:23 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

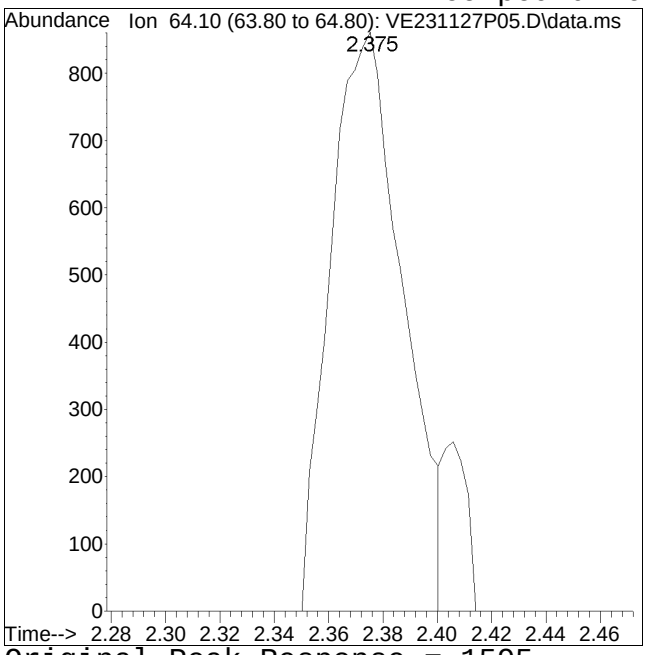
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

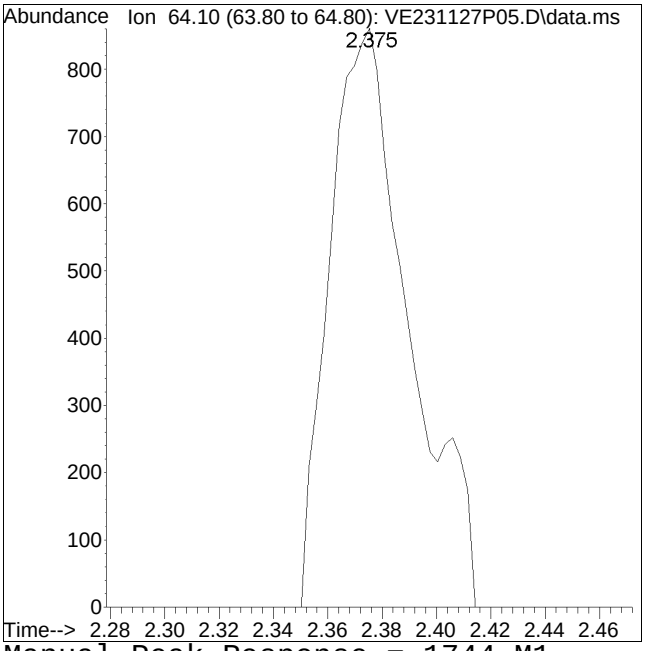


Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P05.D Operator : ELAINE:PID
Date Inj'd : 11/27/2023 11:22 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 11/28/2023 12:01 pm

Compound #6: Chloroethane



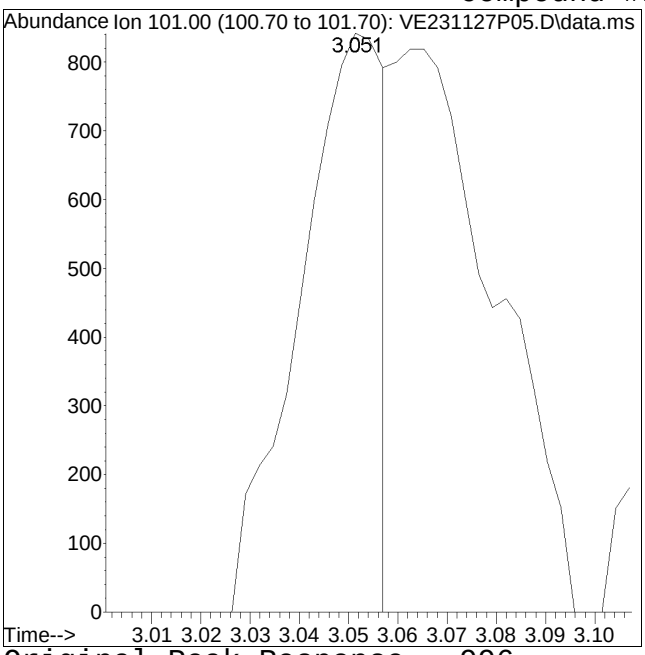


Original Peak Response = 1595 Manual Peak Response = 1744 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

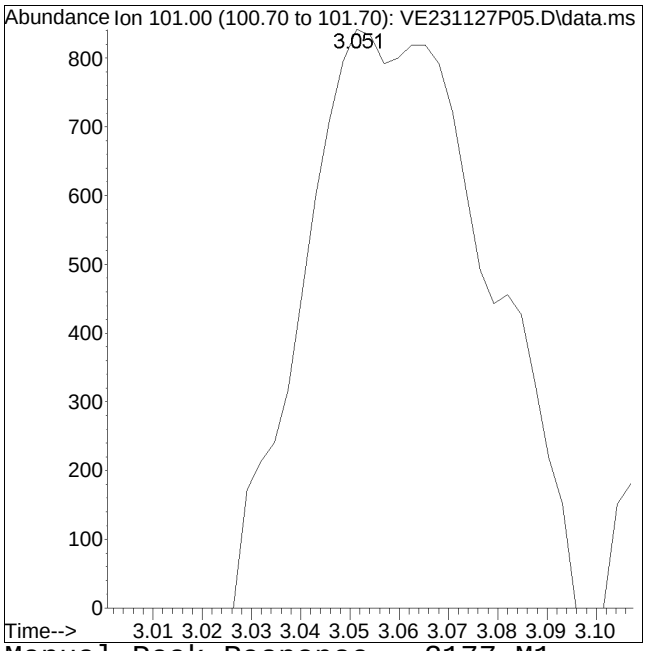
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P05.D Operator : ELAINE:PID
Date Inj'd : 11/27/2023 11:22 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 11/28/2023 12:01 pm

Compound #12: Freon-113



Original Peak Response = 996



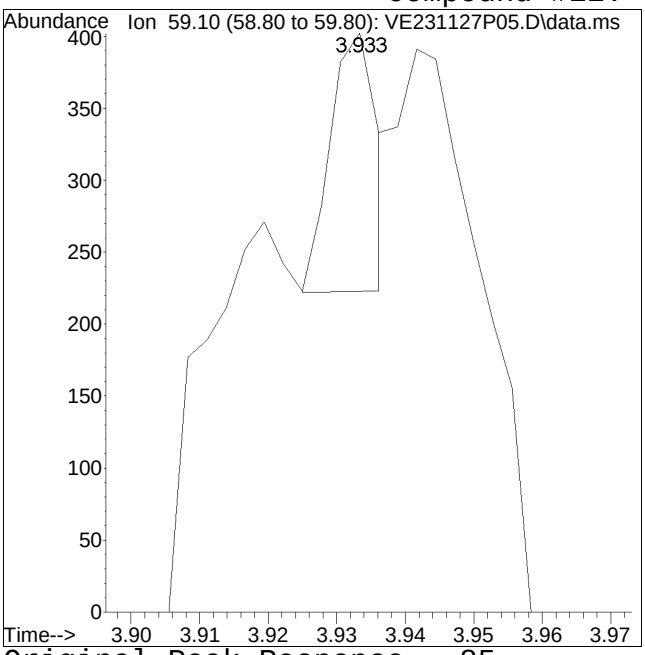
Manual Peak Response = 2177 M1

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

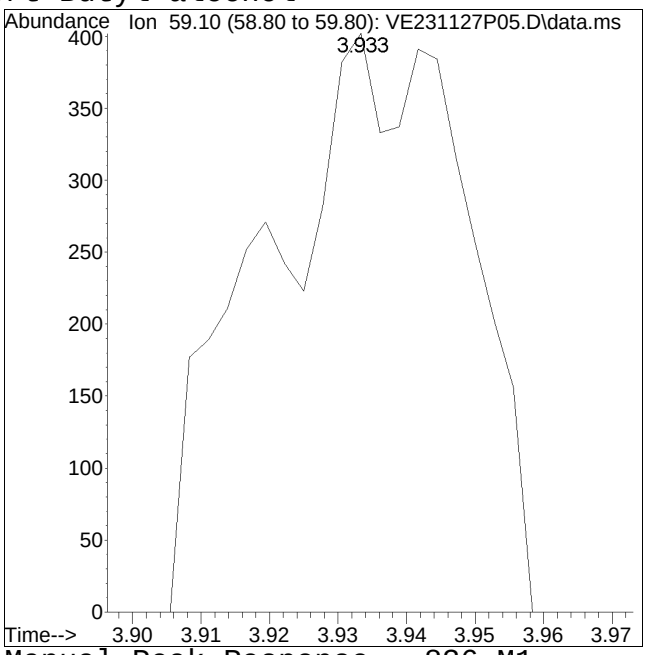
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P05.D Operator : ELAINE:PID
Date Inj'd : 11/27/2023 11:22 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 11/28/2023 12:01 pm

Compound #22: tert-Butyl alcohol



Original Peak Response = 85



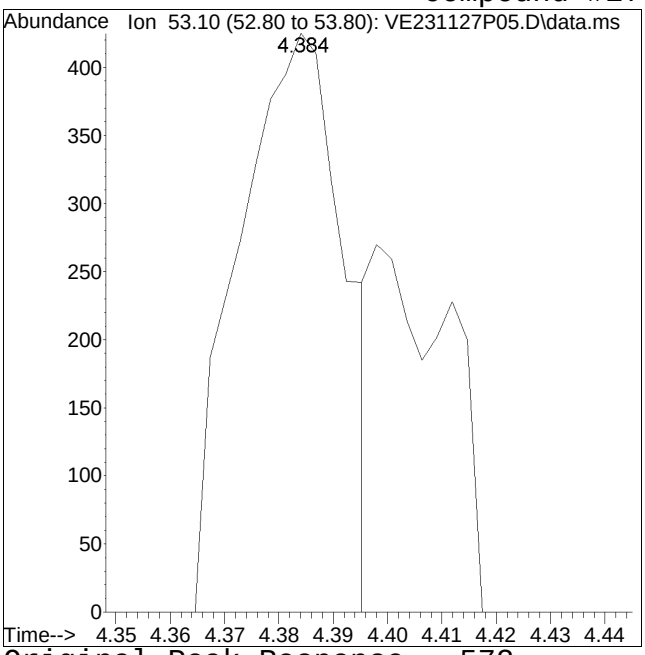
Manual Peak Response = 836 M1

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

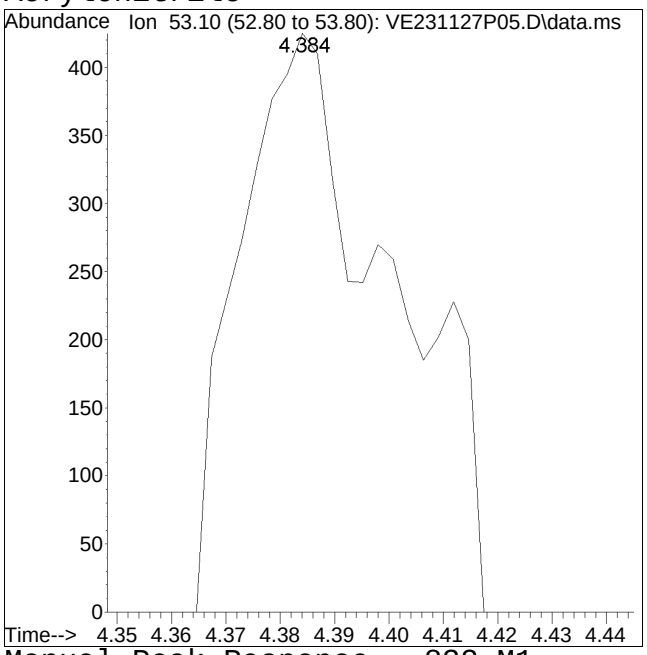
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P05.D Operator : ELAINE:PID
Date Inj'd : 11/27/2023 11:22 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 11/28/2023 12:01 pm

Compound #27: Acrylonitrile



Original Peak Response = 572



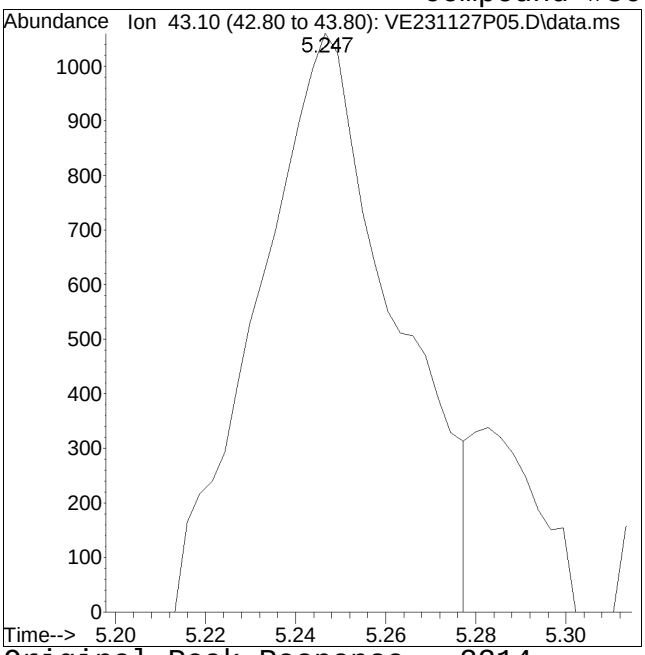
Manual Peak Response = 832 M1

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

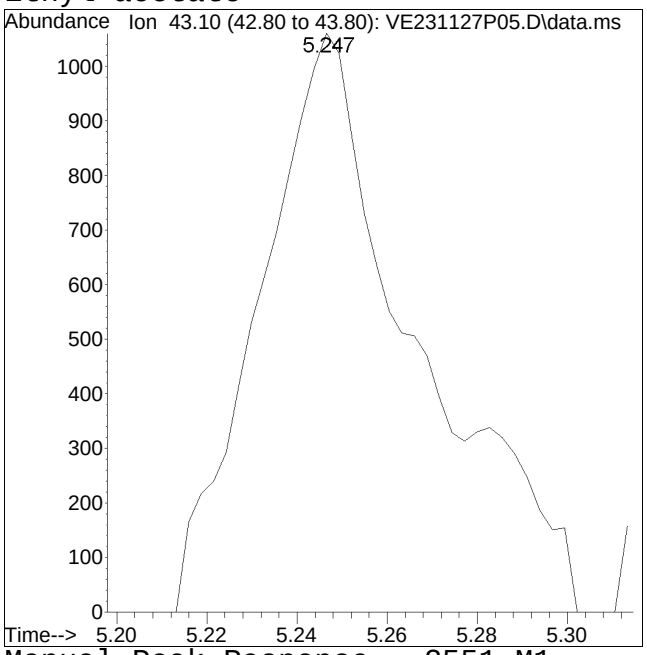
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P05.D Operator : ELAINE:PID
Date Inj'd : 11/27/2023 11:22 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 11/28/2023 12:01 pm

Compound #36: Ethyl acetate



Original Peak Response = 2214



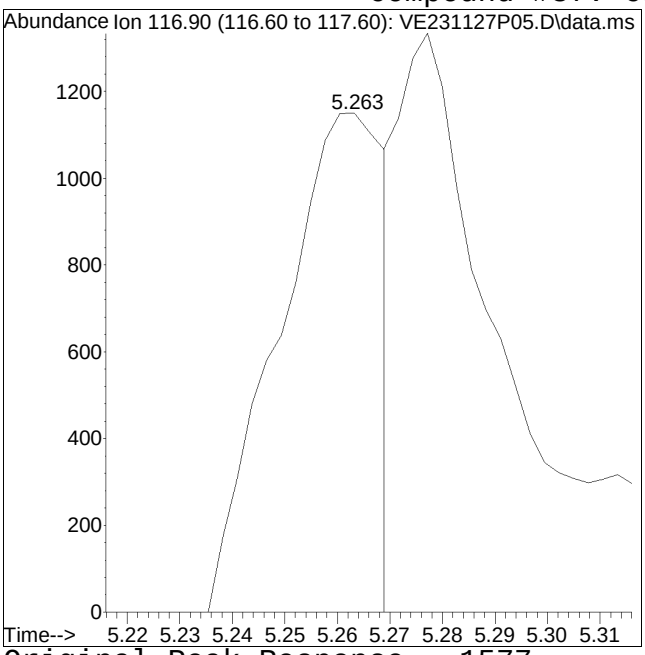
Manual Peak Response = 2551 M1

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

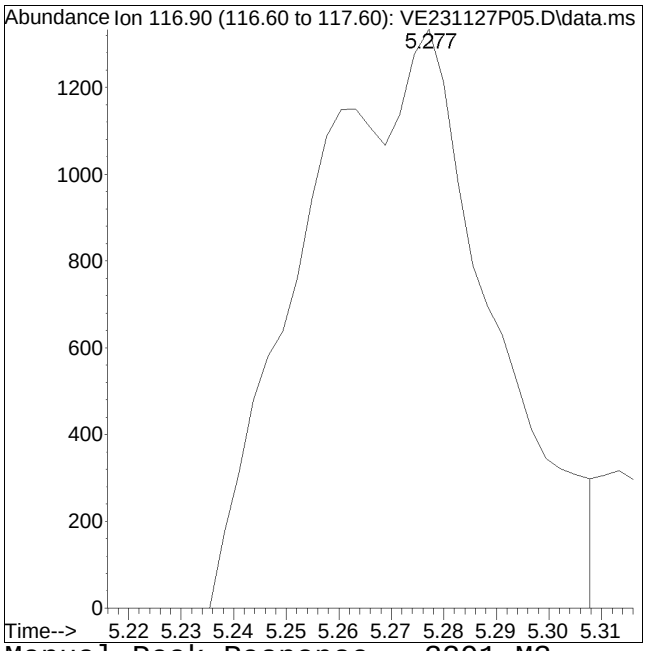
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P05.D Operator : ELAINE:PID
Date Inj'd : 11/27/2023 11:22 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 11/28/2023 12:01 pm

Compound #37: Carbon tetrachloride



Original Peak Response = 1577



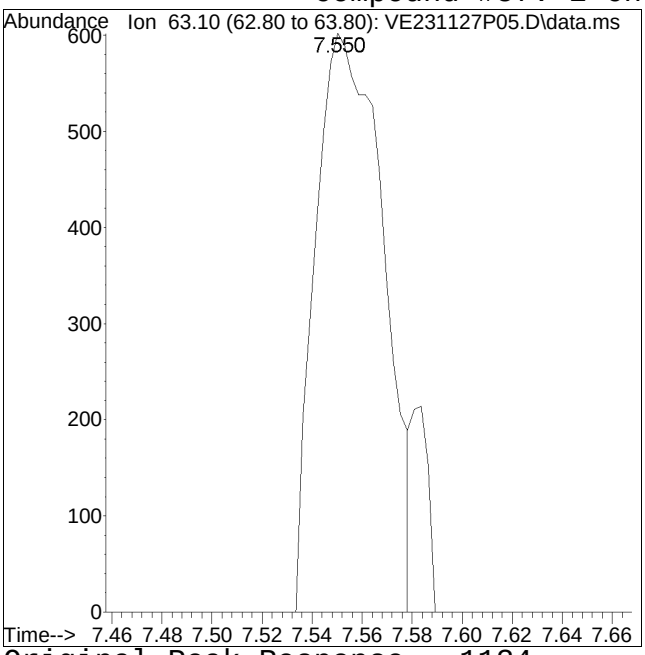
Manual Peak Response = 3291 M3

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

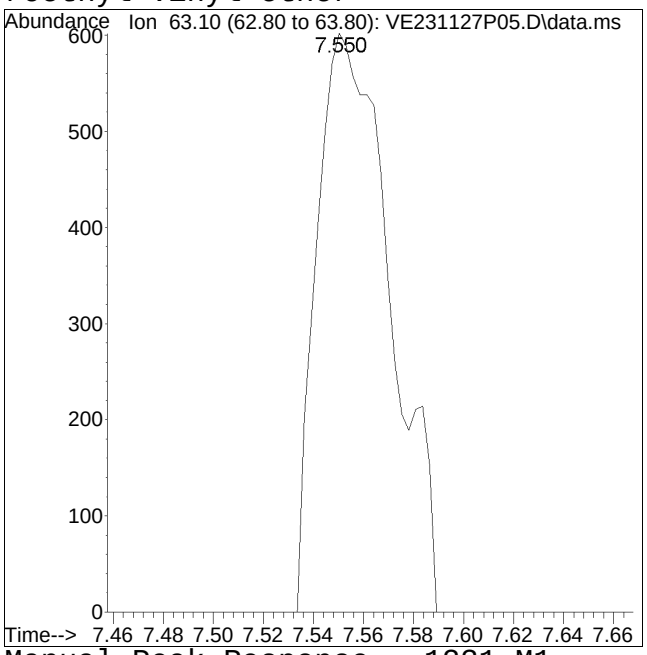
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P05.D Operator : ELAINE:PID
Date Inj'd : 11/27/2023 11:22 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 11/28/2023 12:01 pm

Compound #57: 2-Chloroethyl vinyl ether



Original Peak Response = 1134



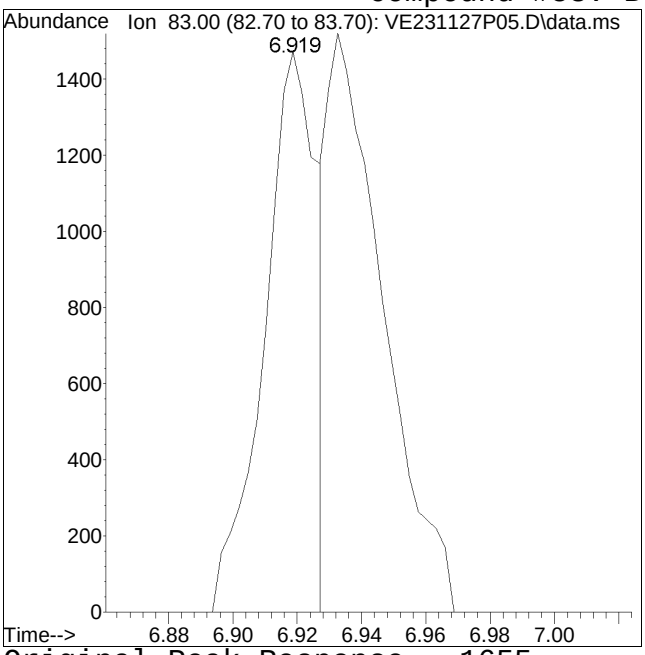
Manual Peak Response = 1231 M1

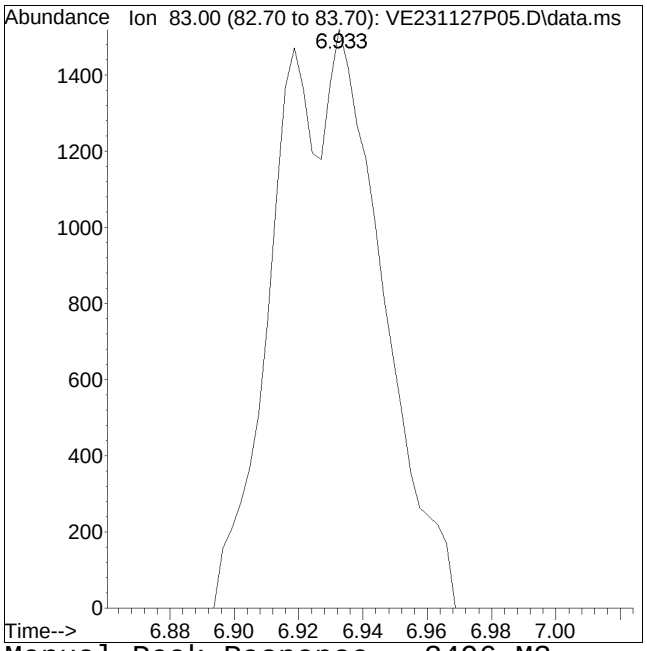
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P05.D Operator : ELAINE:PID
Date Inj'd : 11/27/2023 11:22 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 11/28/2023 12:01 pm

Compound #58: Bromodichloromethane





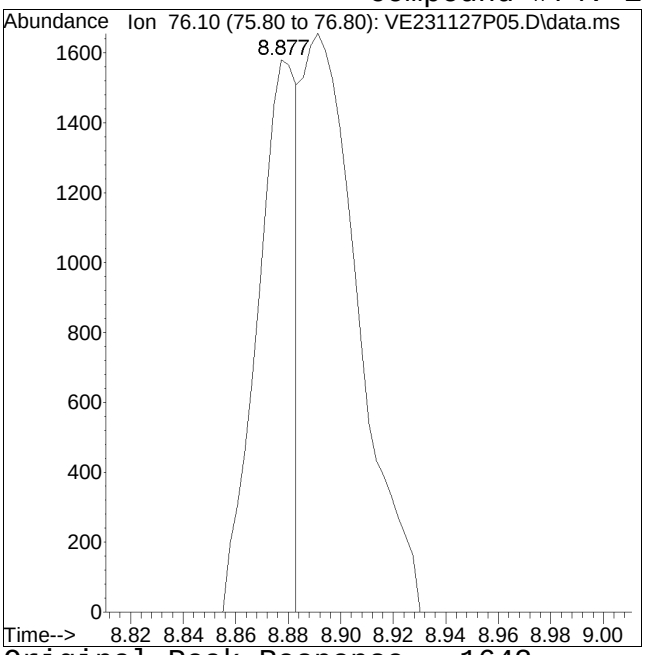
Original Peak Response = 1655 Manual Peak Response = 3496 M3

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

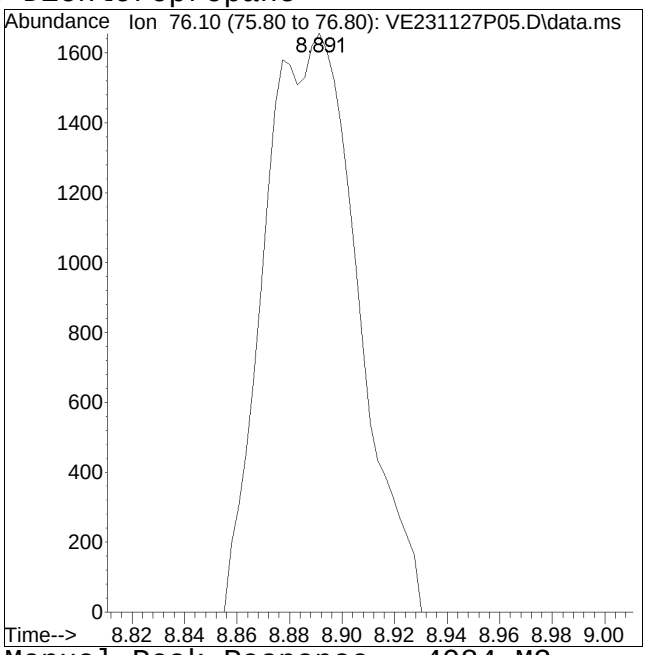
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P05.D Operator : ELAINE:PID
Date Inj'd : 11/27/2023 11:22 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 11/28/2023 12:01 pm

Compound #74: 1,3-Dichloropropane



Original Peak Response = 1642



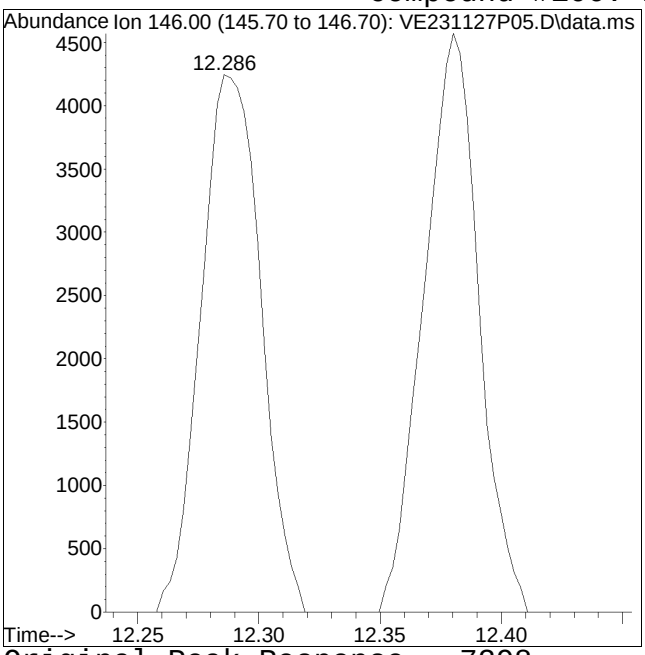
Manual Peak Response = 4084 M3

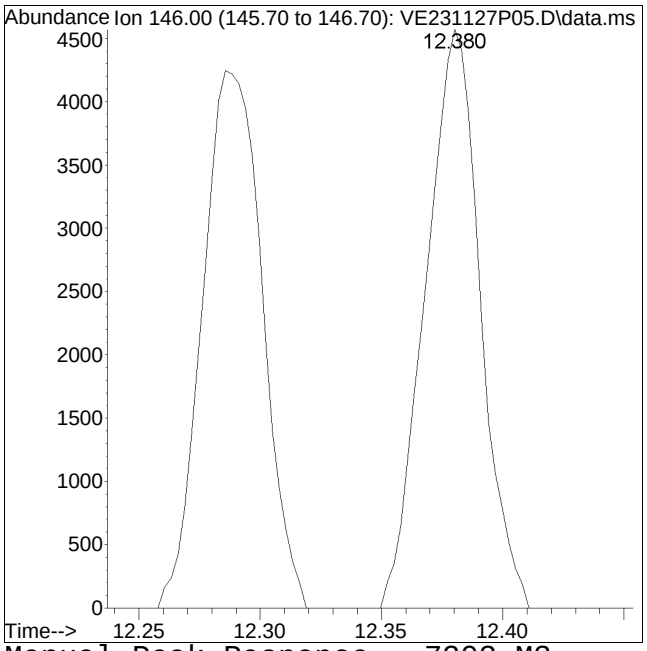
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P05.D Operator : ELAINE:PID
Date Inj'd : 11/27/2023 11:22 pm Instrument : Elaine
Sample : I8260STD0.5PPB Quant Date : 11/28/2023 12:01 pm

Compound #106: 1,4-Dichlorobenzene





Original Peak Response = 7298 Manual Peak Response = 7203 M3

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P07.D
Acq On : 28 Nov 2023 12:10 am
Operator : ELAINE:PID
Sample : I8260STD2PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:32 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.131	96	333603	10.000	ug/L	0.00
Standard Area 1 = 338625			Recovery = 98.52%			
63) Chlorobenzene-d5	9.687	117	296703	10.000	ug/L	0.00
Standard Area 1 = 298875			Recovery = 99.27%			
84) 1,4-Dichlorobenzene-d4	12.364	152	173628	10.000	ug/L	0.00
Standard Area 1 = 169300			Recovery = 102.56%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.311	113	86907	10.436	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.36%			
47) 1,2-Dichloroethane-d4	5.842	65	100244	10.659	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.59%			
64) Toluene-d8	7.834	98	339434	9.966	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.66%			
88) 4-Bromofluorobenzene	11.165	95	128722	9.800	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.655	85	19356	2.340	ug/L	98
3) Chloromethane	1.852	50	21796	2.303	ug/L	99
4) Vinyl chloride	1.930	62	19904	2.317	ug/L	99
5) Bromomethane	2.250	94	4989	1.861	ug/L	96
6) Chloroethane	2.378	64	10573	2.402	ug/L	99
7) Trichlorofluoromethane	2.517	101	19542	2.240	ug/L	98
8) Ethyl ether	2.826	74	5309	2.047	ug/L #	67
10) 1,1-Dichloroethene	3.021	96	12054	2.164	ug/L	95
11) Carbon disulfide	3.052	76	37414	2.119	ug/L	100
12) Freon-113	3.060	101	14176	2.288	ug/L	100
14) Acrolein	3.341	56	1926	2.109	ug/L	99
15) Methylene chloride	3.588	84	15897	2.286	ug/L	82
17) Acetone	3.627	43	3840	2.084	ug/L	91
18) trans-1,2-Dichloroethene	3.744	96	14016	2.257	ug/L	97
19) Methyl acetate	3.750	43	8487	2.166	ug/L #	88
21) Methyl tert-butyl ether	3.847	73	29631	1.964	ug/L #	87
22) tert-Butyl alcohol	3.936	59	3634	9.472	ug/L #	85
24) Diisopropyl ether	4.212	45	53173	1.957	ug/L	97
25) 1,1-Dichloroethane	4.340	63	29598	2.209	ug/L	97
26) Halothane	4.387	117	11110	2.283	ug/L	97
27) Acrylonitrile	4.387	53	3756	2.046	ug/L	85

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P07.D
Acq On : 28 Nov 2023 12:10 am
Operator : ELAINE:PID
Sample : I8260STD2PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:32 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Ethyl tert-butyl ether	4.565	59	41234	1.908	ug/L		83
29) Vinyl acetate	4.576	43	19692	1.849	ug/L	#	94
30) cis-1,2-Dichloroethene	4.863	96	15712	2.205	ug/L		98
31) 2,2-Dichloropropane	4.971	77	20028	2.212	ug/L		93
33) Bromochloromethane	5.058	128	6811	2.199	ug/L	#	73
34) Cyclohexane	5.063	56	33361	2.199	ug/L		76
35) Chloroform	5.133	83	26325M4	2.331	ug/L		
36) Ethyl acetate	5.247	43	10520	1.963	ug/L	#	71
37) Carbon tetrachloride	5.275	117	19038	2.251	ug/L		98
38) Tetrahydrofuran	5.280	42	3849	2.464	ug/L	#	78
40) 1,1,1-Trichloroethane	5.339	97	23064	2.276	ug/L	#	95
42) 2-Butanone	5.433	43	4939	2.084	ug/L	#	47
43) 1,1-Dichloropropene	5.455	75	18313	2.104	ug/L		98
45) Benzene	5.709	78	57090	2.168	ug/L		95
46) tert-Amyl methyl ether	5.820	73	29649	1.908	ug/L	#	83
48) 1,2-Dichloroethane	5.914	62	18276	2.095	ug/L		97
51) Methyl cyclohexane	6.298	83	24701	2.136	ug/L	#	80
52) Trichloroethene	6.310	95	14690	2.192	ug/L		99
54) Dibromomethane	6.749	93	7270	2.088	ug/L		94
55) 1,2-Dichloropropane	6.860	63	15919	2.091	ug/L		93
57) 2-Chloroethyl vinyl ether	7.553	63	5426	1.926	ug/L		94
58) Bromodichloromethane	6.930	83	17179	2.028	ug/L		98
61) 1,4-Dioxane	7.139	88	15884	403.851	ug/L		89
62) cis-1,3-Dichloropropene	7.623	75	19996	1.988	ug/L		95
65) Toluene	7.893	92	36538	2.166	ug/L		99
66) 4-Methyl-2-pentanone	8.332	58	3159	1.652	ug/L	#	82
67) Tetrachloroethene	8.338	166	15797	2.087	ug/L		95
69) trans-1,3-Dichloropropene	8.374	75	16239	1.902	ug/L		98
71) Ethyl methacrylate	8.566	69	10841	1.851	ug/L		83
72) 1,1,2-Trichloroethane	8.560	83	8926	2.081	ug/L		95
73) Chlorodibromomethane	8.777	129	11711	1.935	ug/L		98
74) 1,3-Dichloropropane	8.891	76	18395	2.047	ug/L		99
75) 1,2-Dibromoethane	9.050	107	9856	1.999	ug/L		98
77) 2-Hexanone	9.339	43	6056	1.781	ug/L		92
78) Chlorobenzene	9.707	112	39760	2.153	ug/L	#	84
79) Ethylbenzene	9.748	91	69747	2.154	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.793	131	13065	2.066	ug/L		99
81) p/m Xylene	9.935	106	55981	4.524	ug/L		95
82) o Xylene	10.469	106	51786	4.336	ug/L		97
83) Styrene	10.533	104	81307	4.297	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P07.D
Acq On : 28 Nov 2023 12:10 am
Operator : ELAINE:PID
Sample : I8260STD2PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:32 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85)	Bromoform	10.561	173	6739	1.845	ug/L		95
87)	Isopropylbenzene	10.847	105	71559	2.113	ug/L		99
89)	Bromobenzene	11.276	156	16827	2.055	ug/L		98
90)	n-Propylbenzene	11.320	91	86593	2.152	ug/L		97
91)	1,4-Dichlorobutane	11.337	55	21022	2.079	ug/L	#	88
92)	1,1,2,2-Tetrachloroethane	11.404	83	11547	2.149	ug/L		99
93)	4-Ethyltoluene	11.446	105	70092	2.073	ug/L		99
94)	2-Chlorotoluene	11.485	91	54036M1	2.223	ug/L		
95)	1,3,5-Trimethylbenzene	11.543	105	60192	2.092	ug/L		99
96)	1,2,3-Trichloropropane	11.543	75	9534	2.040	ug/L		93
97)	trans-1,4-Dichloro-2-b...	11.596	53	3546	1.856	ug/L	#	82
98)	4-Chlorotoluene	11.668	91	52320	2.098	ug/L		100
99)	tert-Butylbenzene	11.882	119	49798	2.060	ug/L		98
102)	1,2,4-Trimethylbenzene	11.957	105	58690	2.041	ug/L		98
103)	sec-Butylbenzene	12.072	105	75886	2.169	ug/L		96
104)	p-Isopropyltoluene	12.225	119	60341	2.044	ug/L		99
105)	1,3-Dichlorobenzene	12.289	146	33861	2.119	ug/L		98
106)	1,4-Dichlorobenzene	12.380	146	34454	2.152	ug/L		98
107)	p-Diethylbenzene	12.595	119	33886	1.958	ug/L		96
108)	n-Butylbenzene	12.650	91	51061	2.094	ug/L		98
109)	1,2-Dichlorobenzene	12.801	146	30223	2.039	ug/L		97
110)	1,2,4,5-Tetramethylben...	13.382	119	46037	1.799	ug/L		96
111)	1,2-Dibromo-3-chloropr...	13.577	155	1646	1.928	ug/L		93
112)	1,3,5-Trichlorobenzene	13.605	180	21548	2.043	ug/L		97
113)	Hexachlorobutadiene	14.180	225	7177	2.126	ug/L		97
114)	1,2,4-Trichlorobenzene	14.203	180	17376	1.925	ug/L		98
115)	Naphthalene	14.495	128	31675	1.701	ug/L		100
116)	1,2,3-Trichlorobenzene	14.662	180	14990	1.906	ug/L		98

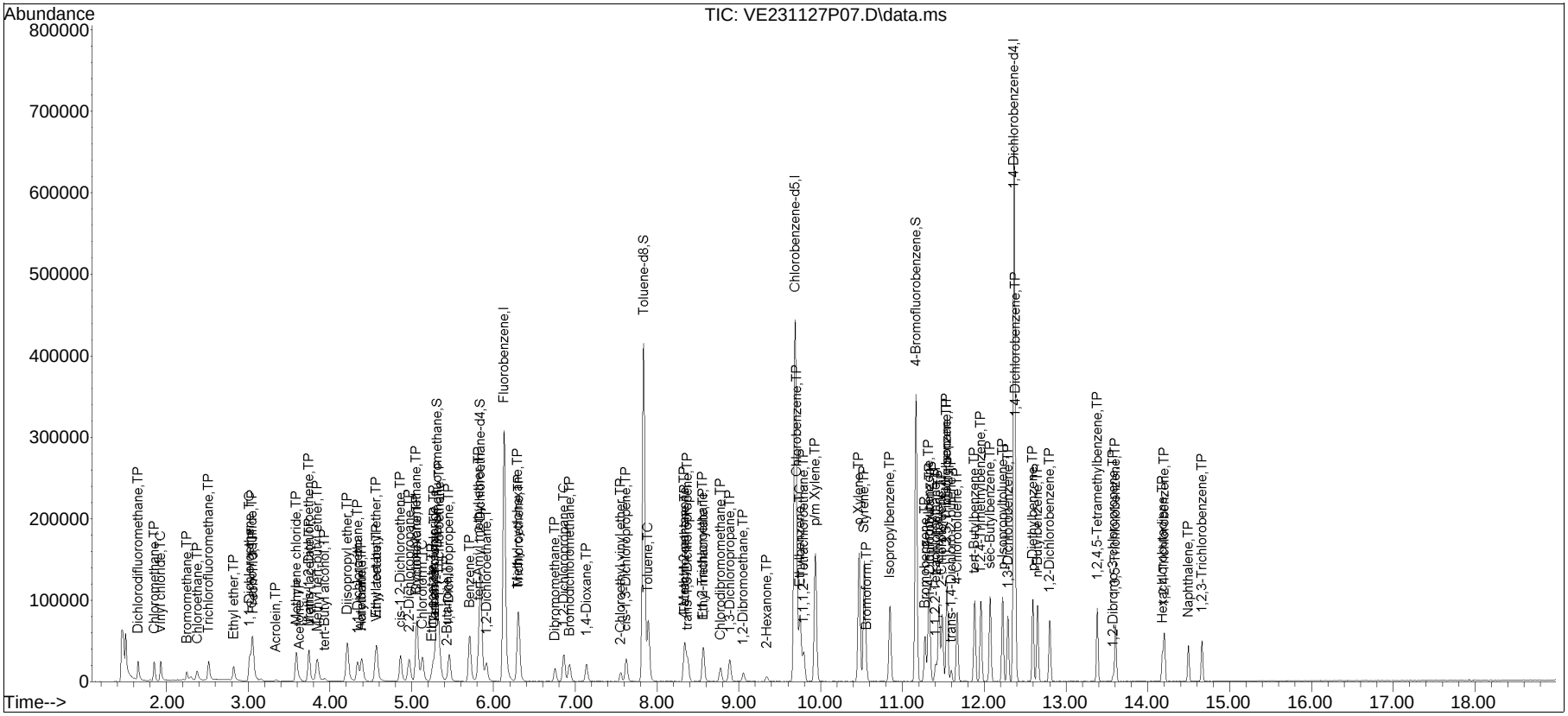
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P07.D
Acq On : 28 Nov 2023 12:10 am
Operator : ELAINE:PID
Sample : I8260STD2PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:32 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

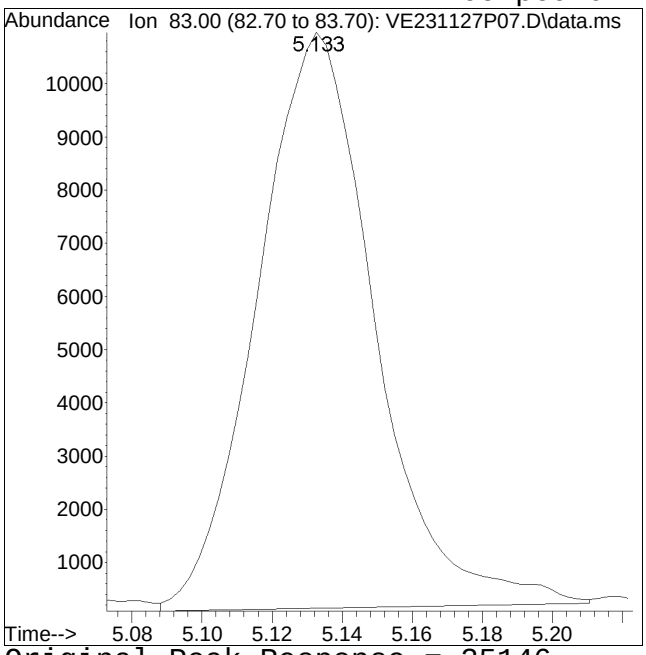
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



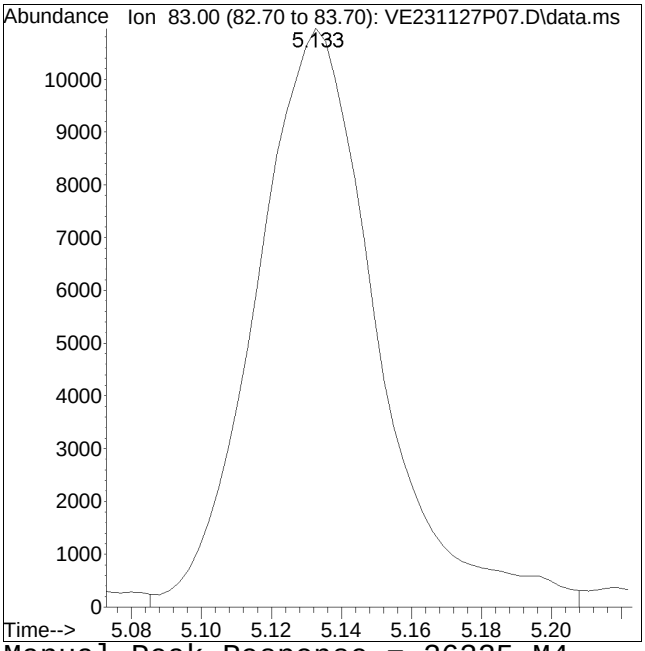
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P07.D Operator : ELAINE:PID
Date Inj'd : 11/28/2023 12:10 am Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 11/28/2023 12:01 pm

Compound #35: Chloroform



Original Peak Response = 25146



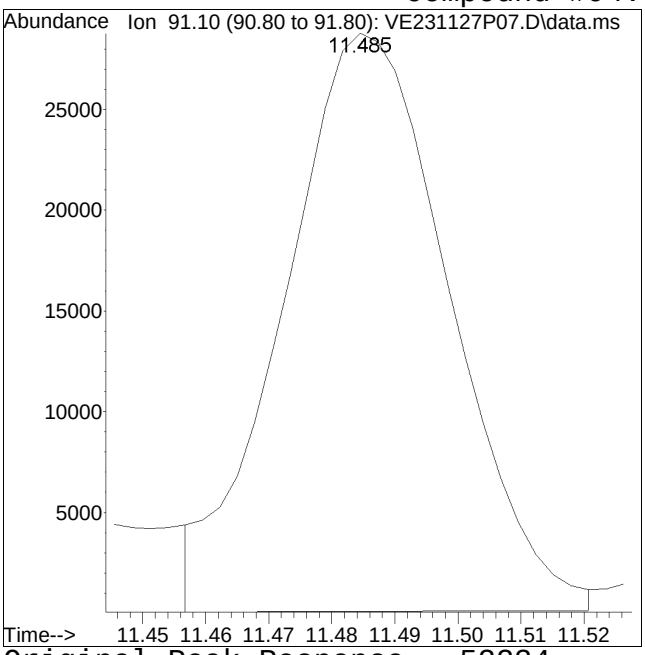
Manual Peak Response = 26325 M4

M4 = Poor automated baseline construction.

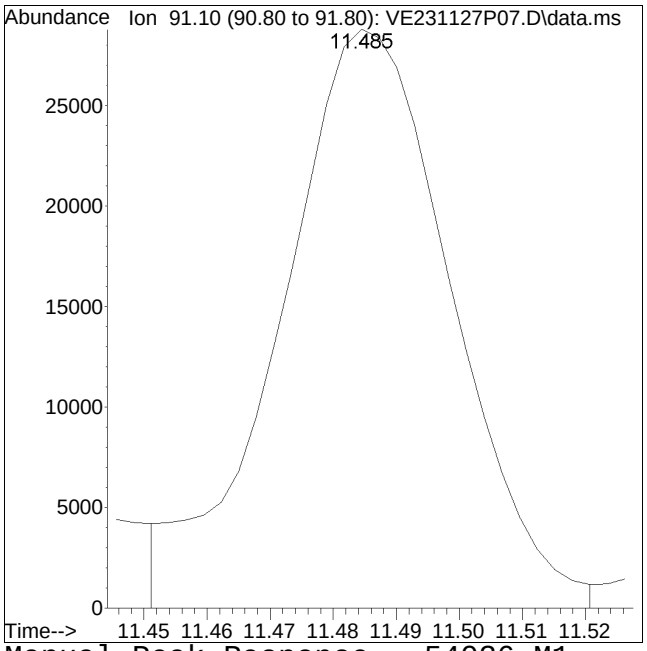
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P07.D Operator : ELAINE:PID
Date Inj'd : 11/28/2023 12:10 am Instrument : Elaine
Sample : I8260STD2PPB Quant Date : 11/28/2023 12:01 pm

Compound #94: 2-Chlorotoluene



Original Peak Response = 52234



Manual Peak Response = 54036 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P09.D
Acq On : 28 Nov 2023 1:00 am
Operator : ELAINE:PID
Sample : I8260STD10PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:40 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.129	96	338625	10.000 ug/L	0.00
Standard Area 1 = 338625			Recovery = 100.00%		
63) Chlorobenzene-d5	9.687	117	298875	10.000 ug/L	0.00
Standard Area 1 = 298875			Recovery = 100.00%		
84) 1,4-Dichlorobenzene-d4	12.364	152	169300	10.000 ug/L	0.00
Standard Area 1 = 169300			Recovery = 100.00%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.311	113	87116	10.306 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.06%		
47) 1,2-Dichloroethane-d4	5.842	65	101515	10.634 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.34%		
64) Toluene-d8	7.834	98	341300	9.948 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.48%		
88) 4-Bromofluorobenzene	11.165	95	126787	9.899 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.99%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.655	85	87279	10.395 ug/L	98
3) Chloromethane	1.852	50	103873	10.814 ug/L	98
4) Vinyl chloride	1.930	62	93389	10.708 ug/L	95
5) Bromomethane	2.250	94	24821	9.119 ug/L	100
6) Chloroethane	2.373	64	48338	10.818 ug/L	96
7) Trichlorofluoromethane	2.520	101	93169	10.520 ug/L	95
8) Ethyl ether	2.823	74	26513	10.070 ug/L #	61
10) 1,1-Dichloroethene	3.018	96	57413	10.153 ug/L	97
11) Carbon disulfide	3.049	76	188288	10.503 ug/L	99
12) Freon-113	3.057	101	68829	10.944 ug/L	100
14) Acrolein	3.346	56	9765	10.536 ug/L	98
15) Methylene chloride	3.589	84	72294	10.240 ug/L	83
17) Acetone	3.630	43	16916	9.044 ug/L	92
18) trans-1,2-Dichloroethene	3.742	96	63175	10.023 ug/L	97
19) Methyl acetate	3.750	43	38282	9.624 ug/L	94
21) Methyl tert-butyl ether	3.845	73	157134	10.263 ug/L	94
22) tert-Butyl alcohol	3.931	59	20101	51.617 ug/L #	95
24) Diisopropyl ether	4.212	45	283086	10.263 ug/L	93
25) 1,1-Dichloroethane	4.337	63	145439	10.692 ug/L	95
26) Halothane	4.390	117	51938	10.517 ug/L	99
27) Acrylonitrile	4.382	53	18676	10.020 ug/L	91

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P09.D
Acq On : 28 Nov 2023 1:00 am
Operator : ELAINE:PID
Sample : I8260STD10PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:40 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Ethyl tert-butyl ether	4.565	59	222426	10.140	ug/L		82
29) Vinyl acetate	4.573	43	102768	9.509	ug/L		97
30) cis-1,2-Dichloroethene	4.863	96	73857	10.212	ug/L		99
31) 2,2-Dichloropropane	4.969	77	95279	10.367	ug/L		95
33) Bromochloromethane	5.058	128	33905	10.784	ug/L	#	83
34) Cyclohexane	5.063	56	166267	10.798	ug/L		77
35) Chloroform	5.130	83	118340	10.324	ug/L		99
36) Ethyl acetate	5.241	43	54563	10.028	ug/L		97
37) Carbon tetrachloride	5.269	117	90395	10.531	ug/L		97
38) Tetrahydrofuran	5.289	42	15092M4	9.519	ug/L		
40) 1,1,1-Trichloroethane	5.336	97	105492	10.254	ug/L		99
42) 2-Butanone	5.425	43	23393	9.724	ug/L	#	58
43) 1,1-Dichloropropene	5.458	75	92585	10.482	ug/L		96
45) Benzene	5.709	78	275497	10.305	ug/L		95
46) tert-Amyl methyl ether	5.820	73	155444	9.853	ug/L	#	87
48) 1,2-Dichloroethane	5.912	62	87461	9.879	ug/L		99
51) Methyl cyclohexane	6.301	83	121748	10.370	ug/L		83
52) Trichloroethene	6.307	95	72184	10.612	ug/L		100
54) Dibromomethane	6.752	93	35508	10.046	ug/L		93
55) 1,2-Dichloropropane	6.858	63	77801	10.066	ug/L	#	92
57) 2-Chloroethyl vinyl ether	7.553	63	29902	10.454	ug/L		98
58) Bromodichloromethane	6.927	83	88630	10.308	ug/L		98
61) 1,4-Dioxane	7.136	88	19931	499.231	ug/L		92
62) cis-1,3-Dichloropropene	7.623	75	100581	9.851	ug/L		95
65) Toluene	7.893	92	171866	10.113	ug/L		99
66) 4-Methyl-2-pentanone	8.329	58	18002	9.344	ug/L		92
67) Tetrachloroethene	8.341	166	76425	10.021	ug/L		95
69) trans-1,3-Dichloropropene	8.374	75	84505	9.824	ug/L		93
71) Ethyl methacrylate	8.563	69	58327	9.885	ug/L		89
72) 1,1,2-Trichloroethane	8.563	83	43871	10.156	ug/L		97
73) Chlorodibromomethane	8.775	129	58726	9.634	ug/L		98
74) 1,3-Dichloropropane	8.886	76	89518	9.888	ug/L		100
75) 1,2-Dibromoethane	9.053	107	49248	9.914	ug/L		98
77) 2-Hexanone	9.337	43	32035	9.353	ug/L		96
78) Chlorobenzene	9.707	112	189539	10.187	ug/L		89
79) Ethylbenzene	9.746	91	336556	10.320	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.793	131	63236	9.928	ug/L		98
81) p/m Xylene	9.935	106	261768	20.999	ug/L		97
82) o Xylene	10.469	106	253279	21.055	ug/L		96
83) Styrene	10.533	104	406538	21.328	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P09.D
Acq On : 28 Nov 2023 1:00 am
Operator : ELAINE:PID
Sample : I8260STD10PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:40 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85) Bromoform	10.555	173	34490	9.684	ug/L		96
87) Isopropylbenzene	10.847	105	337397	10.219	ug/L		100
89) Bromobenzene	11.276	156	80523	10.084	ug/L		99
90) n-Propylbenzene	11.320	91	403976	10.297	ug/L		98
91) 1,4-Dichlorobutane	11.337	55	98143	9.953	ug/L	#	90
92) 1,1,2,2-Tetrachloroethane	11.404	83	51879	9.903	ug/L		98
93) 4-Ethyltoluene	11.446	105	337215	10.229	ug/L		99
94) 2-Chlorotoluene	11.485	91	240138M1	10.132	ug/L		
95) 1,3,5-Trimethylbenzene	11.543	105	288474	10.281	ug/L		99
96) 1,2,3-Trichloropropane	11.543	75	45687	10.027	ug/L		96
97) trans-1,4-Dichloro-2-b...	11.593	53	17881	9.600	ug/L	#	78
98) 4-Chlorotoluene	11.668	91	245514	10.096	ug/L		99
99) tert-Butylbenzene	11.882	119	244256	10.365	ug/L		96
102) 1,2,4-Trimethylbenzene	11.958	105	284071	10.130	ug/L		100
103) sec-Butylbenzene	12.072	105	354062	10.379	ug/L		96
104) p-Isopropyltoluene	12.222	119	296656	10.304	ug/L		98
105) 1,3-Dichlorobenzene	12.289	146	155062	9.951	ug/L		99
106) 1,4-Dichlorobenzene	12.380	146	156036	9.994	ug/L		99
107) p-Diethylbenzene	12.595	119	168586	9.993	ug/L		97
108) n-Butylbenzene	12.650	91	244339	10.275	ug/L		99
109) 1,2-Dichlorobenzene	12.801	146	144415	9.992	ug/L		99
110) 1,2,4,5-Tetramethylben...	13.382	119	248424	9.956	ug/L		97
111) 1,2-Dibromo-3-chloropr...	13.574	155	7883	9.468	ug/L		92
112) 1,3,5-Trichlorobenzene	13.605	180	102430	9.959	ug/L		96
113) Hexachlorobutadiene	14.178	225	33080	10.048	ug/L		98
114) 1,2,4-Trichlorobenzene	14.200	180	85564	9.722	ug/L		97
115) Naphthalene	14.495	128	171983	9.471	ug/L		100
116) 1,2,3-Trichlorobenzene	14.662	180	74612	9.729	ug/L		98

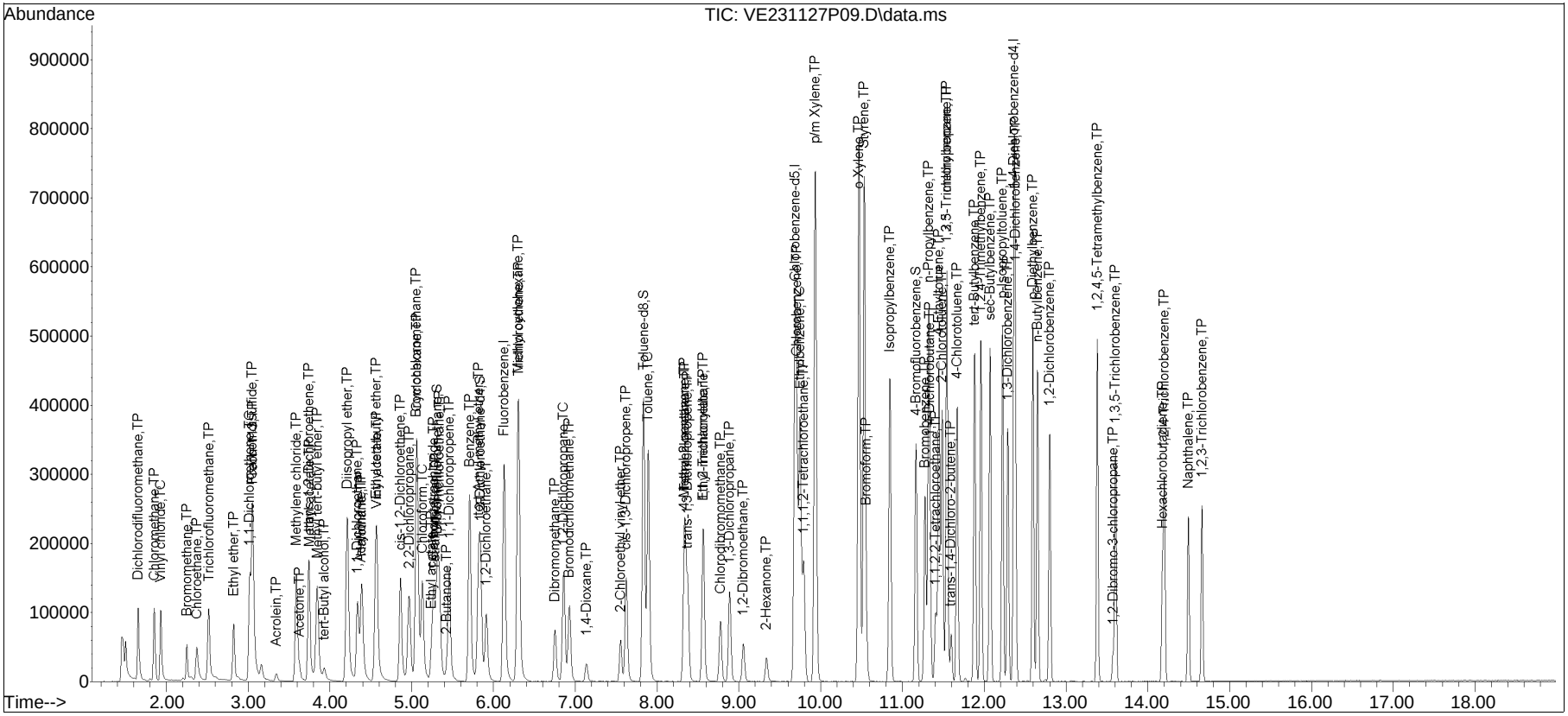
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P09.D
Acq On : 28 Nov 2023 1:00 am
Operator : ELAINE:PID
Sample : I8260STD10PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:40 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

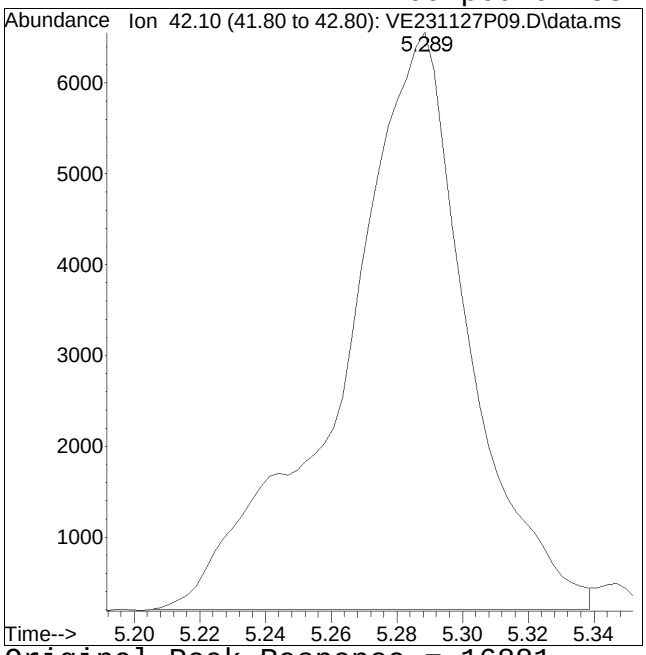
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



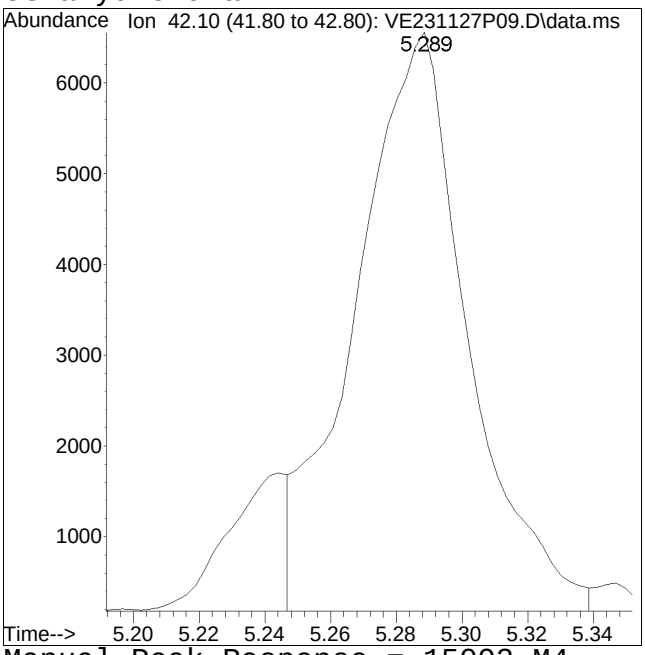
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P09.D Operator : ELAINE:PID
Date Inj'd : 11/28/2023 1:00 am Instrument : Elaine
Sample : I8260STD10PPB Quant Date : 11/28/2023 12:01 pm

Compound #38: Tetrahydrofuran



Original Peak Response = 16881



Manual Peak Response = 15092 M4

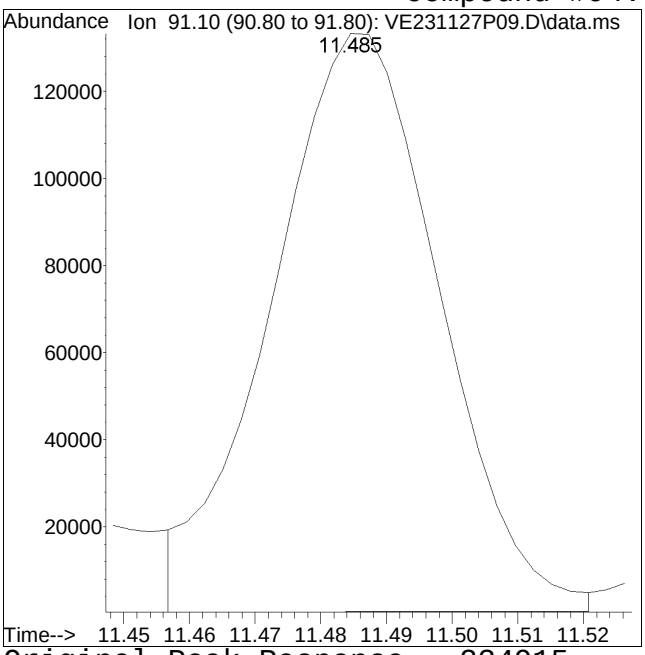
M4 = Poor automated baseline construction.

Manual Integration Report

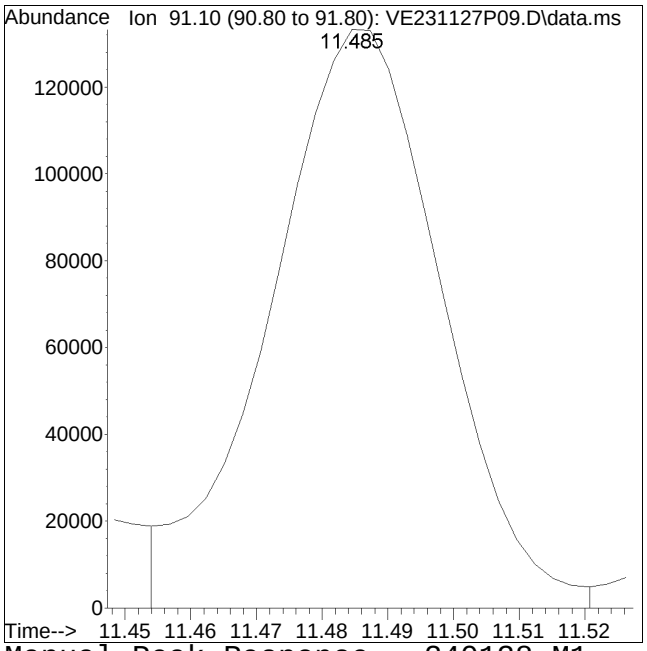
Data Path : K:\Elaine\2023\231127P-ICAQ
Data File : VE231127P09.D
Date Inj'd : 11/28/2023 1:00 am
Sample : I8260STD10PPB

Method : Elaine_231127N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 11/28/2023 12:01 pm

Compound #94: 2-Chlorotoluene



Original Peak Response = 234915



Manual Peak Response = 240138 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P10.D
Acq On : 28 Nov 2023 1:24 am
Operator : ELAINE:PID
Sample : I8260STD30PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:49 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	353392	10.000	ug/L	0.00
Standard Area 1 = 338625			Recovery = 104.36%			
63) Chlorobenzene-d5	9.684	117	307315	10.000	ug/L	0.00
Standard Area 1 = 298875			Recovery = 102.82%			
84) 1,4-Dichlorobenzene-d4	12.364	152	170216	10.000	ug/L	0.00
Standard Area 1 = 169300			Recovery = 100.54%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.311	113	87391	9.906	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.06%			
47) 1,2-Dichloroethane-d4	5.842	65	94365	9.472	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.72%			
64) Toluene-d8	7.834	98	351375	9.960	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.60%			
88) 4-Bromofluorobenzene	11.165	95	127305	9.886	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.655	85	277381	31.657	ug/L	100
3) Chloromethane	1.853	50	304359	30.363	ug/L	99
4) Vinyl chloride	1.930	62	290153	31.879	ug/L	97
5) Bromomethane	2.250	94	85902	30.242	ug/L	100
6) Chloroethane	2.373	64	154512	33.134	ug/L	100
7) Trichlorofluoromethane	2.517	101	303251	32.810	ug/L	98
8) Ethyl ether	2.824	74	88903	32.354	ug/L #	77
10) 1,1-Dichloroethene	3.018	96	194777	33.007	ug/L	98
11) Carbon disulfide	3.052	76	606687	32.429	ug/L	98
12) Freon-113	3.060	101	215526	32.836	ug/L	99
14) Acrolein	3.344	56	30051	31.067	ug/L	91
15) Methylene chloride	3.589	84	218566	29.666	ug/L	82
17) Acetone	3.628	43	53402	27.358	ug/L	91
18) trans-1,2-Dichloroethene	3.742	96	210186	31.953	ug/L	99
19) Methyl acetate	3.750	43	118971	28.659	ug/L	95
21) Methyl tert-butyl ether	3.845	73	499937	31.288	ug/L	94
22) tert-Butyl alcohol	3.931	59	61850	152.187	ug/L #	94
24) Diisopropyl ether	4.212	45	922544	32.049	ug/L	92
25) 1,1-Dichloroethane	4.337	63	449990	31.698	ug/L	97
26) Halothane	4.390	117	166041	32.216	ug/L	100
27) Acrylonitrile	4.382	53	62514	32.140	ug/L	90

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P10.D
Acq On : 28 Nov 2023 1:24 am
Operator : ELAINE:PID
Sample : I8260STD30PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:49 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Ethyl tert-butyl ether	4.565	59	723256	31.593	ug/L		88
29) Vinyl acetate	4.574	43	400529	35.512	ug/L		98
30) cis-1,2-Dichloroethene	4.863	96	232781	30.842	ug/L		99
31) 2,2-Dichloropropane	4.969	77	302039	31.490	ug/L		96
33) Bromochloromethane	5.058	128	105266	32.081	ug/L	#	84
34) Cyclohexane	5.063	56	522498	32.516	ug/L		80
35) Chloroform	5.130	83	364332	30.457	ug/L		99
36) Ethyl acetate	5.241	43	174132	30.666	ug/L		97
37) Carbon tetrachloride	5.269	117	287768	32.124	ug/L		98
38) Tetrahydrofuran	5.283	42	46740M1	28.248	ug/L		
40) 1,1,1-Trichloroethane	5.336	97	338324	31.512	ug/L		99
42) 2-Butanone	5.425	43	72610	28.921	ug/L	#	62
43) 1,1-Dichloropropene	5.458	75	297821	32.308	ug/L		97
45) Benzene	5.709	78	885532	31.740	ug/L		95
46) tert-Amyl methyl ether	5.820	73	512496	31.127	ug/L	#	91
48) 1,2-Dichloroethane	5.912	62	279164	30.216	ug/L		98
51) Methyl cyclohexane	6.301	83	393172	32.090	ug/L	#	81
52) Trichloroethene	6.307	95	227382	32.033	ug/L		99
54) Dibromomethane	6.752	93	111974	30.356	ug/L		92
55) 1,2-Dichloropropane	6.858	63	253091	31.377	ug/L	#	92
57) 2-Chloroethyl vinyl ether	7.553	63	98270	32.920	ug/L		96
58) Bromodichloromethane	6.927	83	279320	31.128	ug/L		99
61) 1,4-Dioxane	7.136	88	24563	589.544	ug/L		89
62) cis-1,3-Dichloropropene	7.623	75	339761	31.887	ug/L		94
65) Toluene	7.893	92	543638	31.111	ug/L		100
66) 4-Methyl-2-pentanone	8.327	58	59255	29.912	ug/L		94
67) Tetrachloroethene	8.341	166	248147	31.645	ug/L		95
69) trans-1,3-Dichloropropene	8.374	75	281555	31.834	ug/L		97
71) Ethyl methacrylate	8.563	69	191179	31.510	ug/L		91
72) 1,1,2-Trichloroethane	8.563	83	137276	30.905	ug/L		99
73) Chlorodibromomethane	8.775	129	191972	30.630	ug/L		99
74) 1,3-Dichloropropane	8.886	76	287587	30.893	ug/L		100
75) 1,2-Dibromoethane	9.056	107	155769	30.495	ug/L		99
77) 2-Hexanone	9.337	43	106640	30.280	ug/L		94
78) Chlorobenzene	9.707	112	590449	30.862	ug/L		90
79) Ethylbenzene	9.746	91	1057653	31.542	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.790	131	203096	31.010	ug/L		97
81) p/m Xylene	9.935	106	814004	63.505	ug/L		97
82) o Xylene	10.469	106	791783	64.013	ug/L		97
83) Styrene	10.533	104	1258903	64.232	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P10.D
Acq On : 28 Nov 2023 1:24 am
Operator : ELAINE:PID
Sample : I8260STD30PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:49 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85) Bromoform	10.555	173	107768	30.096	ug/L		99
87) Isopropylbenzene	10.847	105	1055137	31.786	ug/L		100
89) Bromobenzene	11.276	156	245360	30.562	ug/L		100
90) n-Propylbenzene	11.320	91	1258632	31.909	ug/L		98
91) 1,4-Dichlorobutane	11.337	55	299909	30.251	ug/L	#	89
92) 1,1,2,2-Tetrachloroethane	11.404	83	162301	30.814	ug/L		100
93) 4-Ethyltoluene	11.446	105	1050884	31.705	ug/L		100
94) 2-Chlorotoluene	11.485	91	738830M1	31.006	ug/L		
95) 1,3,5-Trimethylbenzene	11.543	105	901612	31.961	ug/L		99
96) 1,2,3-Trichloropropane	11.543	75	135867	29.659	ug/L		96
97) trans-1,4-Dichloro-2-b...	11.596	53	56795	30.329	ug/L	#	81
98) 4-Chlorotoluene	11.668	91	758560	31.025	ug/L		99
99) tert-Butylbenzene	11.882	119	762532	32.183	ug/L		96
102) 1,2,4-Trimethylbenzene	11.958	105	891630	31.625	ug/L		99
103) sec-Butylbenzene	12.072	105	1095496	31.940	ug/L		97
104) p-Isopropyltoluene	12.222	119	942954	32.575	ug/L		97
105) 1,3-Dichlorobenzene	12.289	146	483850	30.882	ug/L		98
106) 1,4-Dichlorobenzene	12.380	146	478213	30.465	ug/L		99
107) p-Diethylbenzene	12.595	119	555312	32.739	ug/L		98
108) n-Butylbenzene	12.650	91	774330	32.386	ug/L		99
109) 1,2-Dichlorobenzene	12.801	146	447677	30.807	ug/L		99
110) 1,2,4,5-Tetramethylben...	13.382	119	841390	33.540	ug/L		97
111) 1,2-Dibromo-3-chloropr...	13.574	155	26395	31.533	ug/L		99
112) 1,3,5-Trichlorobenzene	13.605	180	329292	31.843	ug/L		97
113) Hexachlorobutadiene	14.178	225	104310	31.514	ug/L		100
114) 1,2,4-Trichlorobenzene	14.200	180	280736	31.727	ug/L		98
115) Naphthalene	14.495	128	572630	31.365	ug/L		100
116) 1,2,3-Trichlorobenzene	14.662	180	242708	31.476	ug/L		99

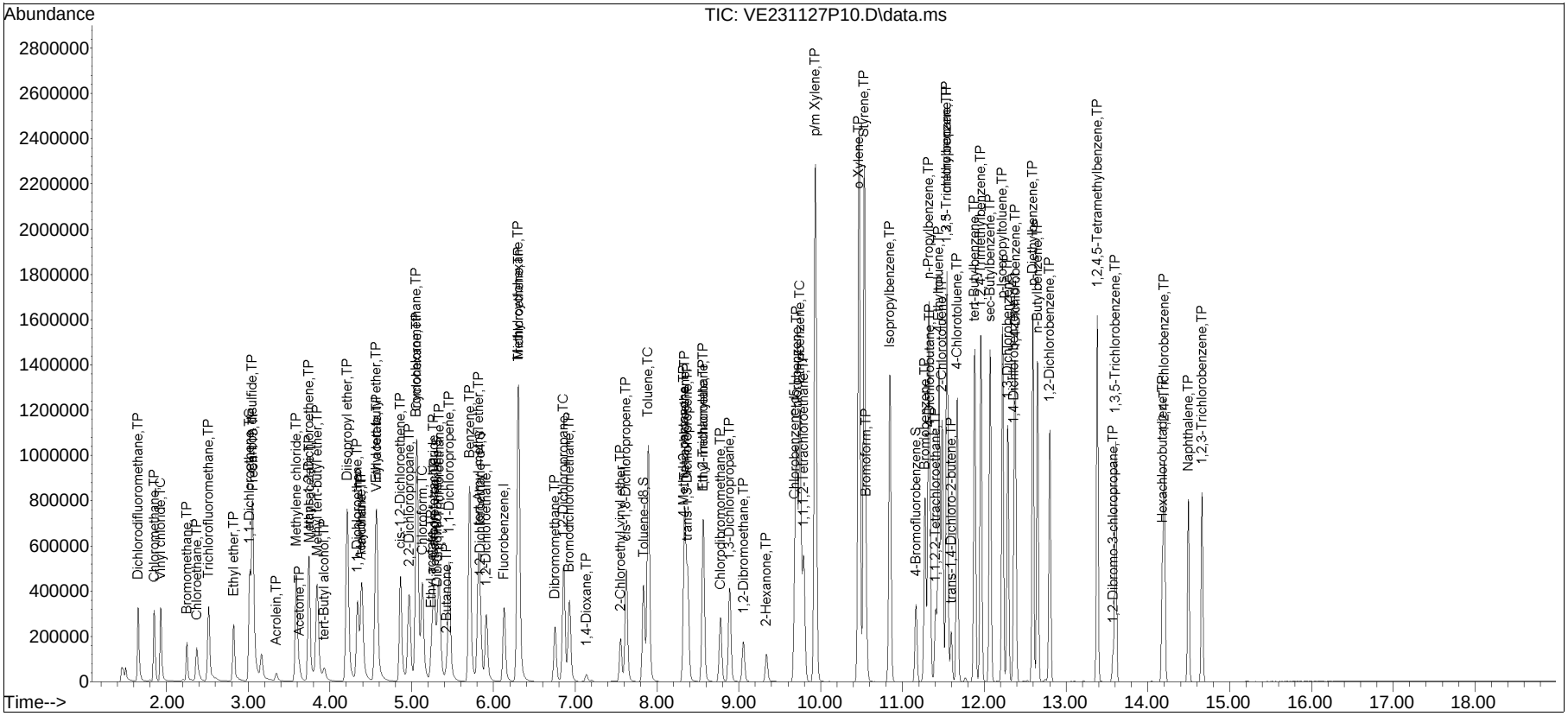
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P10.D
Acq On : 28 Nov 2023 1:24 am
Operator : ELAINE:PID
Sample : I8260STD30PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:49 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

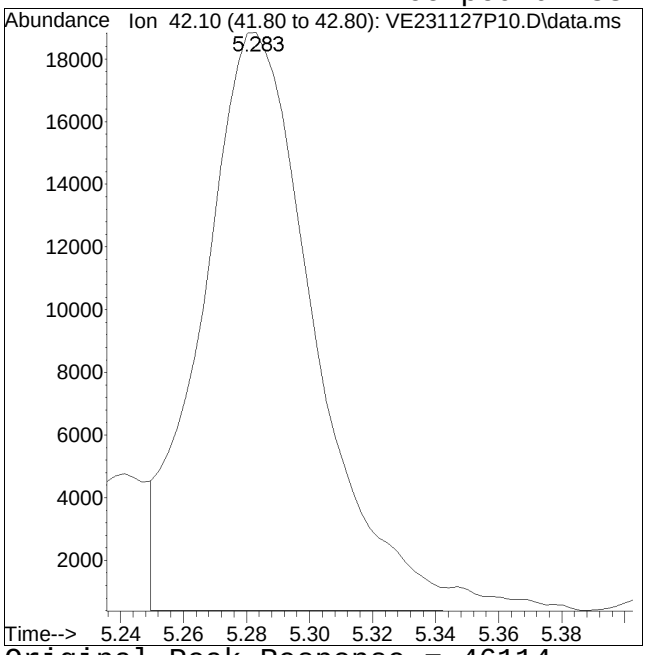
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

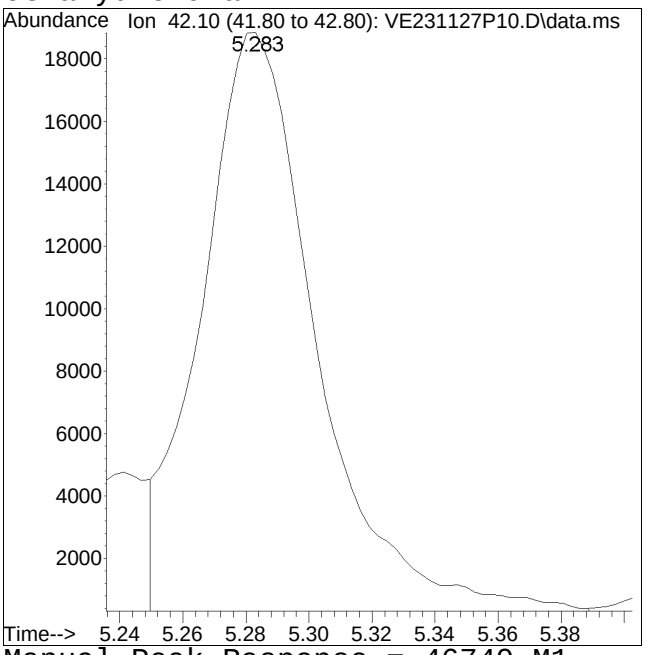


Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P10.D Operator : ELAINE:PID
Date Inj'd : 11/28/2023 1:24 am Instrument : Elaine
Sample : I8260STD30PPB Quant Date : 11/28/2023 12:01 pm

Compound #38: Tetrahydrofuran



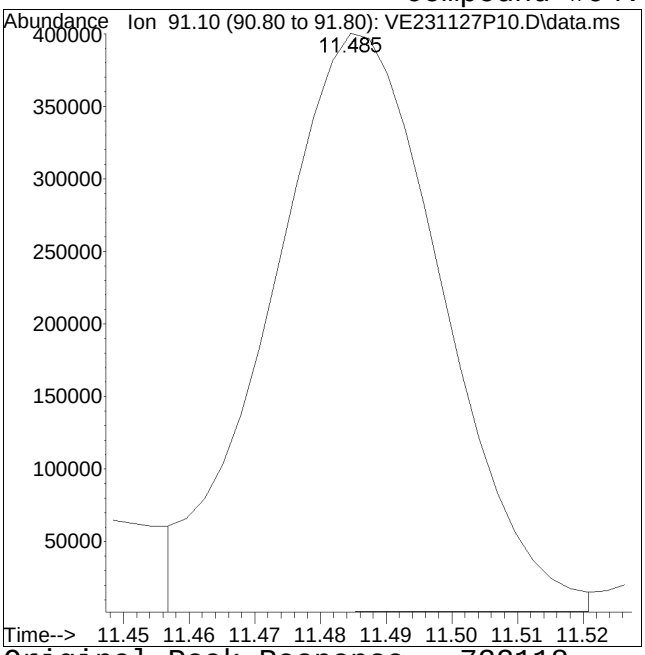


Original Peak Response = 46114 Manual Peak Response = 46740 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

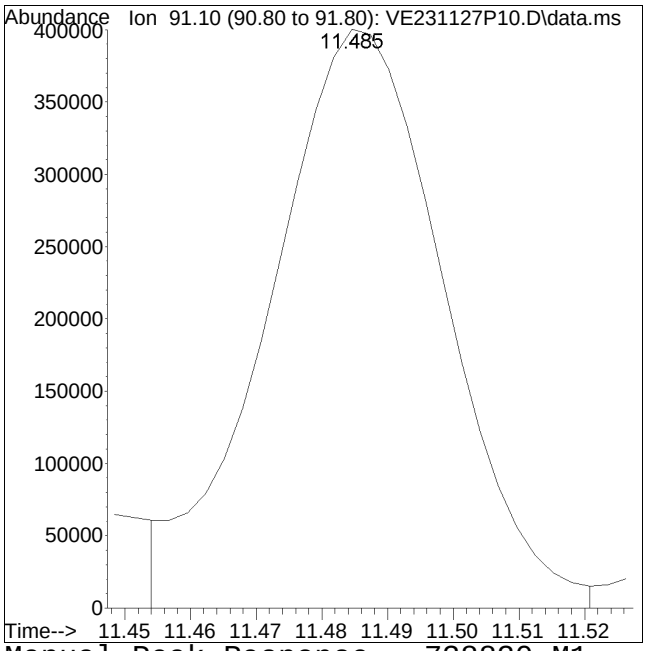
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P10.D Operator : ELAINE:PID
Date Inj'd : 11/28/2023 1:24 am Instrument : Elaine
Sample : I8260STD30PPB Quant Date : 11/28/2023 12:01 pm

Compound #94: 2-Chlorotoluene



Original Peak Response = 722118



Manual Peak Response = 738830 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P11.D
Acq On : 28 Nov 2023 1:49 am
Operator : ELAINE:PID
Sample : I8260STD80PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:58 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.131	96	372591	10.000	ug/L	0.00
Standard Area 1 = 338625			Recovery = 110.03%			
63) Chlorobenzene-d5	9.687	117	318499	10.000	ug/L	0.00
Standard Area 1 = 298875			Recovery = 106.57%			
84) 1,4-Dichlorobenzene-d4	12.366	152	178898	10.000	ug/L	0.00
Standard Area 1 = 169300			Recovery = 105.67%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.311	113	88145	9.477	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.77%			
47) 1,2-Dichloroethane-d4	5.845	65	97820	9.313	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.13%			
64) Toluene-d8	7.834	98	365913	10.008	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.08%			
88) 4-Bromofluorobenzene	11.164	95	132332	9.778	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.78%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.655	85	775277	83.921	ug/L	100
3) Chloromethane	1.852	50	837210	79.217	ug/L	99
4) Vinyl chloride	1.930	62	809841	84.391	ug/L	96
5) Bromomethane	2.253	94	269807	90.093	ug/L	99
6) Chloroethane	2.370	64	404166	82.206	ug/L	99
7) Trichlorofluoromethane	2.517	101	815892	83.727	ug/L	98
8) Ethyl ether	2.823	74	242477	83.697	ug/L	71
10) 1,1-Dichloroethene	3.018	96	530970	85.341	ug/L	97
11) Carbon disulfide	3.051	76	1621774	82.222	ug/L	99
12) Freon-113	3.060	101	569664	82.317	ug/L	100
14) Acrolein	3.346	56	88475	86.754	ug/L	98
15) Methylene chloride	3.588	84	575175	74.047	ug/L	82
17) Acetone	3.627	43	140845	68.438	ug/L #	90
18) trans-1,2-Dichloroethene	3.741	96	564402	81.381	ug/L	100
19) Methyl acetate	3.750	43	327527	74.833	ug/L	94
21) Methyl tert-butyl ether	3.844	73	1384827	82.203	ug/L	95
22) tert-Butyl alcohol	3.931	59	176046	410.856	ug/L #	96
24) Diisopropyl ether	4.212	45	2541841	83.753	ug/L	91
25) 1,1-Dichloroethane	4.337	63	1199658	80.150	ug/L	97
26) Halothane	4.390	117	450476	82.900	ug/L	98
27) Acrylonitrile	4.381	53	164991	80.454	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P11.D
Acq On : 28 Nov 2023 1:49 am
Operator : ELAINE:PID
Sample : I8260STD80PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:58 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Ethyl tert-butyl ether	4.565	59	2015082	83.487	ug/L		87
29) Vinyl acetate	4.573	43	1082743	91.051	ug/L		97
30) cis-1,2-Dichloroethene	4.863	96	626561	78.737	ug/L		99
31) 2,2-Dichloropropane	4.968	77	812047	80.300	ug/L		97
33) Bromochloromethane	5.057	128	273622	79.093	ug/L	#	81
34) Cyclohexane	5.066	56	1430958	84.461	ug/L		79
35) Chloroform	5.130	83	968193	76.768	ug/L		99
36) Ethyl acetate	5.238	43	488704	81.630	ug/L	#	96
37) Carbon tetrachloride	5.269	117	802344	84.953	ug/L		98
38) Tetrahydrofuran	5.283	42	134235M1	76.946	ug/L		
40) 1,1,1-Trichloroethane	5.336	97	922819	81.524	ug/L		99
42) 2-Butanone	5.425	43	215075	81.250	ug/L	#	66
43) 1,1-Dichloropropene	5.458	75	825267	84.913	ug/L		97
45) Benzene	5.708	78	2435083	82.782	ug/L		95
46) tert-Amyl methyl ether	5.820	73	1463992	84.336	ug/L		93
48) 1,2-Dichloroethane	5.912	62	755465	77.556	ug/L		98
51) Methyl cyclohexane	6.301	83	1124216	87.028	ug/L		82
52) Trichloroethene	6.307	95	627098	83.791	ug/L		100
54) Dibromomethane	6.752	93	311025	79.975	ug/L		92
55) 1,2-Dichloropropane	6.858	63	703383	82.708	ug/L	#	92
57) 2-Chloroethyl vinyl ether	7.553	63	276254	87.776	ug/L		98
58) Bromodichloromethane	6.927	83	793270	83.850	ug/L		100
61) 1,4-Dioxane	7.139	88	34021	774.472	ug/L		90
62) cis-1,3-Dichloropropene	7.623	75	953822	84.905	ug/L		94
65) Toluene	7.893	92	1481919	81.827	ug/L		100
66) 4-Methyl-2-pentanone	8.327	58	175305	85.388	ug/L		89
67) Tetrachloroethene	8.340	166	682394	83.966	ug/L		95
69) trans-1,3-Dichloropropene	8.374	75	787169	85.875	ug/L		93
71) Ethyl methacrylate	8.563	69	543442	86.424	ug/L		93
72) 1,1,2-Trichloroethane	8.563	83	371926	80.791	ug/L		99
73) Chlorodibromomethane	8.775	129	550745	84.787	ug/L		99
74) 1,3-Dichloropropane	8.889	76	792613	82.153	ug/L		100
75) 1,2-Dibromoethane	9.056	107	437841	82.706	ug/L		100
77) 2-Hexanone	9.337	43	315703	86.496	ug/L		95
78) Chlorobenzene	9.709	112	1600522	80.719	ug/L		91
79) Ethylbenzene	9.748	91	2845809	81.889	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.793	131	563558	83.026	ug/L		98
81) p/m Xylene	9.935	106	2176298	163.822	ug/L		99
82) o Xylene	10.469	106	2101478	163.932	ug/L		98
83) Styrene	10.536	104	3385769	166.682	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P11.D
Acq On : 28 Nov 2023 1:49 am
Operator : ELAINE:PID
Sample : I8260STD80PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:58 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85) Bromoform	10.558	173	304168	80.822	ug/L		100
87) Isopropylbenzene	10.847	105	2897439	83.051	ug/L		100
89) Bromobenzene	11.276	156	672886	79.746	ug/L		100
90) n-Propylbenzene	11.323	91	3430442	82.748	ug/L		98
91) 1,4-Dichlorobutane	11.337	55	818395	78.542	ug/L	#	89
92) 1,1,2,2-Tetrachloroethane	11.407	83	440845	79.637	ug/L		100
93) 4-Ethyltoluene	11.448	105	2867235	82.306	ug/L		99
94) 2-Chlorotoluene	11.487	91	1985609M1	79.285	ug/L		
95) 1,3,5-Trimethylbenzene	11.546	105	2472675	83.398	ug/L		99
96) 1,2,3-Trichloropropane	11.546	75	371908M1	77.245	ug/L		
97) trans-1,4-Dichloro-2-b...	11.596	53	156695	79.616	ug/L	#	87
98) 4-Chlorotoluene	11.671	91	2088646	81.278	ug/L		98
99) tert-Butylbenzene	11.882	119	2107438	84.629	ug/L		97
102) 1,2,4-Trimethylbenzene	11.960	105	2463728	83.145	ug/L		100
103) sec-Butylbenzene	12.071	105	3042173	84.393	ug/L		97
104) p-Isopropyltoluene	12.224	119	2636847	86.672	ug/L		97
105) 1,3-Dichlorobenzene	12.288	146	1320738	80.207	ug/L		99
106) 1,4-Dichlorobenzene	12.383	146	1324762	80.300	ug/L		98
107) p-Diethylbenzene	12.595	119	1555871	87.275	ug/L		98
108) n-Butylbenzene	12.653	91	2164238	86.125	ug/L		98
109) 1,2-Dichlorobenzene	12.800	146	1234095	80.804	ug/L		99
110) 1,2,4,5-Tetramethylben...	13.382	119	2299596	87.220	ug/L		96
111) 1,2-Dibromo-3-chloropr...	13.574	155	73810	83.898	ug/L		98
112) 1,3,5-Trichlorobenzene	13.607	180	875904	80.591	ug/L		97
113) Hexachlorobutadiene	14.178	225	282318	81.155	ug/L		100
114) 1,2,4-Trichlorobenzene	14.203	180	768338	82.619	ug/L		98
115) Naphthalene	14.495	128	1653526	86.174	ug/L		100
116) 1,2,3-Trichlorobenzene	14.662	180	694510	85.697	ug/L		99

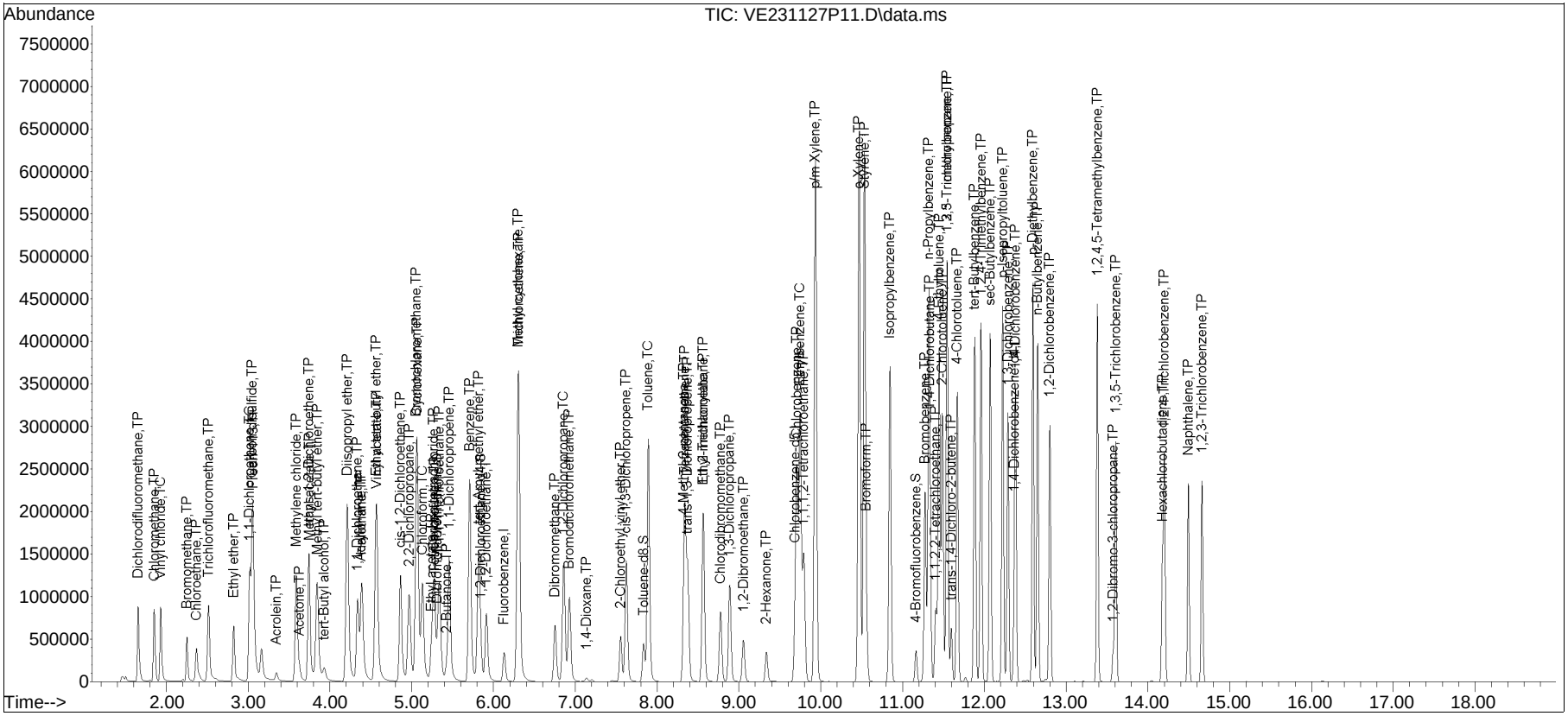
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P11.D
Acq On : 28 Nov 2023 1:49 am
Operator : ELAINE:PID
Sample : I8260STD80PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:01:58 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

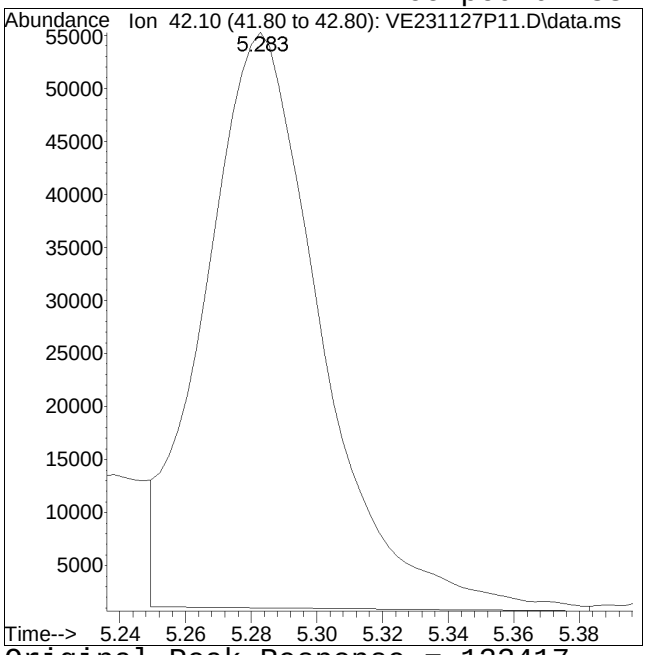
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

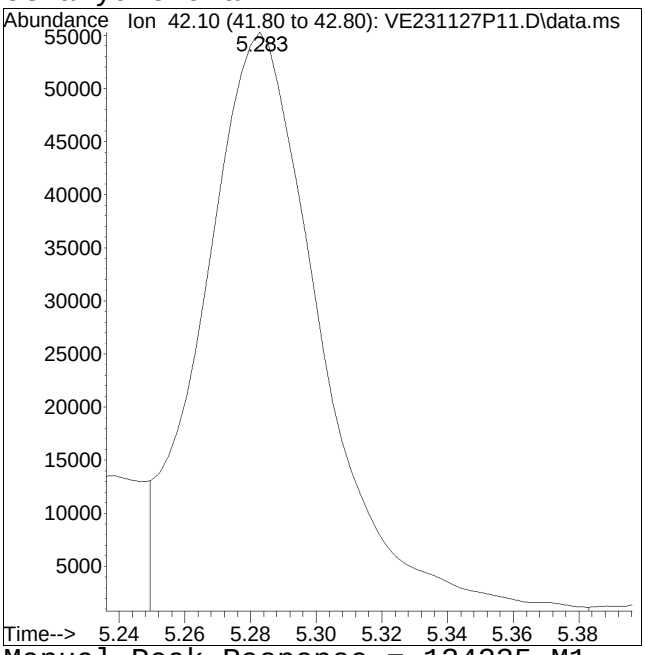


Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P11.D Operator : ELAINE:PID
Date Inj'd : 11/28/2023 1:49 am Instrument : Elaine
Sample : I8260STD80PPB Quant Date : 11/28/2023 12:01 pm

Compound #38: Tetrahydrofuran



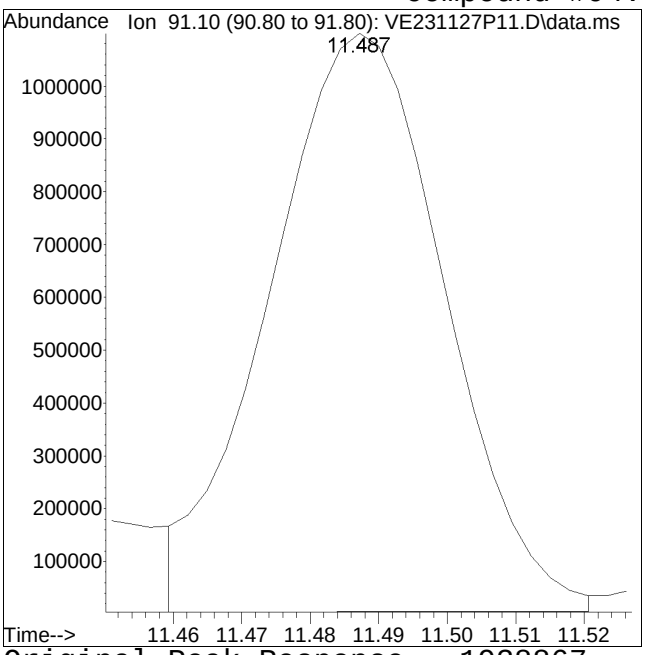


Original Peak Response = 133417 Manual Peak Response = 134235 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

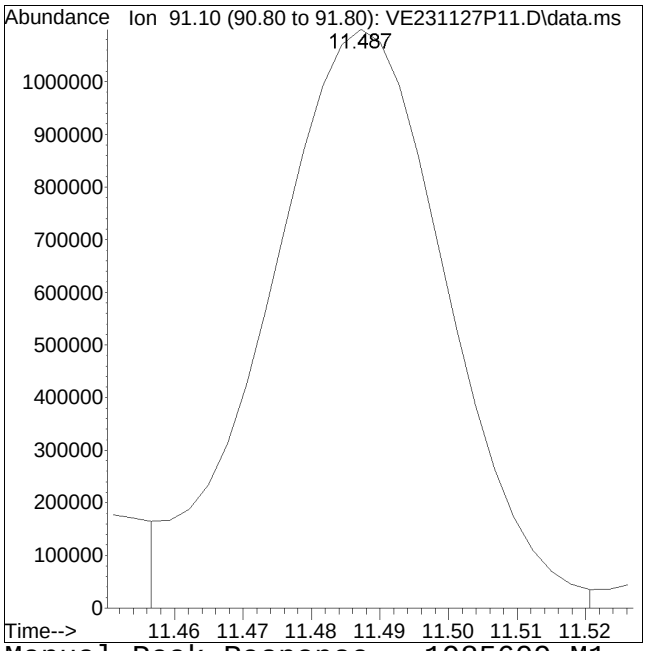
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P11.D Operator : ELAINE:PID
Date Inj'd : 11/28/2023 1:49 am Instrument : Elaine
Sample : I8260STD80PPB Quant Date : 11/28/2023 12:01 pm

Compound #94: 2-Chlorotoluene



Original Peak Response = 1938867



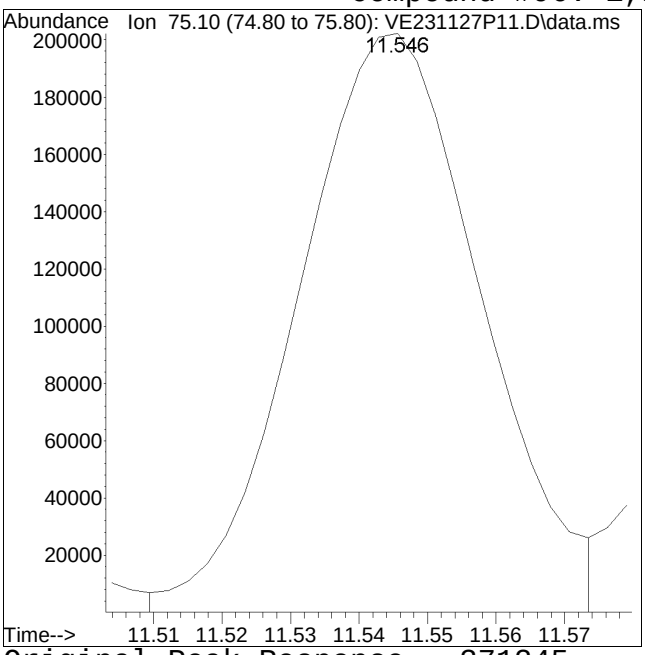
Manual Peak Response = 1985609 M1

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

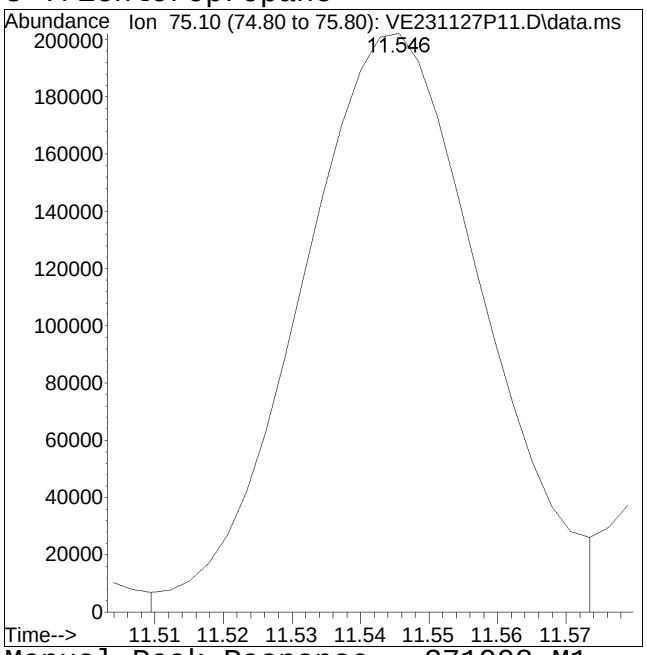
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P11.D Operator : ELAINE:PID
Date Inj'd : 11/28/2023 1:49 am Instrument : Elaine
Sample : I8260STD80PPB Quant Date : 11/28/2023 12:01 pm

Compound #96: 1,2,3-Trichloropropane



Original Peak Response = 371245



Manual Peak Response = 371908 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P12.D
Acq On : 28 Nov 2023 2:13 am
Operator : ELAINE:PID
Sample : I8260STD120PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:02:07 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	385162	10.000	ug/L	0.00
Standard Area 1 = 338625			Recovery = 113.74%			
63) Chlorobenzene-d5	9.687	117	324038	10.000	ug/L	0.00
Standard Area 1 = 298875			Recovery = 108.42%			
84) 1,4-Dichlorobenzene-d4	12.366	152	174756	10.000	ug/L	0.00
Standard Area 1 = 169300			Recovery = 103.22%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.311	113	91525	9.519	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.19%			
47) 1,2-Dichloroethane-d4	5.842	65	102392	9.430	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.30%			
64) Toluene-d8	7.834	98	379030	10.189	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.89%			
88) 4-Bromofluorobenzene	11.165	95	135641	10.260	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.655	85	1146483	120.052	ug/L	100
3) Chloromethane	1.850	50	1262816	115.588	ug/L	99
4) Vinyl chloride	1.930	62	1222488	123.234	ug/L	95
5) Bromomethane	2.250	94	423738	136.874	ug/L	99
6) Chloroethane	2.364	64	596681	117.401	ug/L	95
7) Trichlorofluoromethane	2.515	101	1200855	119.210	ug/L	99
8) Ethyl ether	2.823	74	356921	119.180	ug/L #	69
10) 1,1-Dichloroethene	3.018	96	788587	122.610	ug/L	98
11) Carbon disulfide	3.052	76	2406708	118.034	ug/L	99
12) Freon-113	3.057	101	850906	118.944	ug/L	99
14) Acrolein	3.344	56	134216	127.310	ug/L	98
15) Methylene chloride	3.588	84	861859	107.332	ug/L	82
17) Acetone	3.627	43	220326	103.564	ug/L #	88
18) trans-1,2-Dichloroethene	3.742	96	845161	117.886	ug/L	99
19) Methyl acetate	3.747	43	497591	109.979	ug/L	94
21) Methyl tert-butyl ether	3.844	73	2119996	121.736	ug/L	95
22) tert-Butyl alcohol	3.934	59	275819	622.696	ug/L #	94
24) Diisopropyl ether	4.212	45	3847566	122.638	ug/L	91
25) 1,1-Dichloroethane	4.337	63	1801603	116.438	ug/L	97
26) Halothane	4.390	117	681447	121.312	ug/L	99
27) Acrylonitrile	4.381	53	255619	120.578	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P12.D
Acq On : 28 Nov 2023 2:13 am
Operator : ELAINE:PID
Sample : I8260STD120PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:02:07 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Ethyl tert-butyl ether	4.565	59	3088769	123.794	ug/L	#	81
29) Vinyl acetate	4.573	43	1355769	110.290	ug/L		97
30) cis-1,2-Dichloroethene	4.863	96	976330	118.686	ug/L		96
31) 2,2-Dichloropropane	4.968	77	1258412	120.378	ug/L		99
33) Bromochloromethane	5.058	128	400180	111.900	ug/L	#	81
34) Cyclohexane	5.066	56	2122835	121.209	ug/L		79
35) Chloroform	5.130	83	1507039	115.593	ug/L		98
36) Ethyl acetate	5.238	43	750499	121.267	ug/L		97
37) Carbon tetrachloride	5.269	117	1224845	125.455	ug/L		98
38) Tetrahydrofuran	5.283	42	205885M6	114.165	ug/L		
40) 1,1,1-Trichloroethane	5.336	97	1421201	121.455	ug/L		97
42) 2-Butanone	5.425	43	323072	118.065	ug/L	#	67
43) 1,1-Dichloropropene	5.458	75	1249112	124.328	ug/L		97
45) Benzene	5.709	78	3705875	121.871	ug/L		96
46) tert-Amyl methyl ether	5.820	73	2273020	126.667	ug/L		93
48) 1,2-Dichloroethane	5.914	62	1147237	113.931	ug/L		98
51) Methyl cyclohexane	6.301	83	1659778	124.293	ug/L	#	81
52) Trichloroethene	6.307	95	973365	125.813	ug/L		99
54) Dibromomethane	6.752	93	477192	118.697	ug/L		92
55) 1,2-Dichloropropane	6.858	63	1062215	120.825	ug/L	#	92
57) 2-Chloroethyl vinyl ether	7.553	63	380918	117.082	ug/L		98
58) Bromodichloromethane	6.927	83	1205775	123.292	ug/L		100
61) 1,4-Dioxane	7.136	88	58747	1293.700	ug/L		91
62) cis-1,3-Dichloropropene	7.623	75	1452556	125.081	ug/L		94
65) Toluene	7.893	92	2232343	121.156	ug/L		100
66) 4-Methyl-2-pentanone	8.327	58	270421	129.465	ug/L		88
67) Tetrachloroethene	8.341	166	1022832	123.704	ug/L		95
69) trans-1,3-Dichloropropene	8.377	75	1202810	128.976	ug/L		92
71) Ethyl methacrylate	8.563	69	819465	128.093	ug/L		93
72) 1,1,2-Trichloroethane	8.563	83	562433	120.086	ug/L		99
73) Chlorodibromomethane	8.775	129	853892	129.209	ug/L		98
74) 1,3-Dichloropropane	8.889	76	1205171	122.779	ug/L		100
75) 1,2-Dibromoethane	9.056	107	674056	125.150	ug/L		99
77) 2-Hexanone	9.337	43	483860	130.301	ug/L		94
78) Chlorobenzene	9.709	112	2399590	118.950	ug/L		90
79) Ethylbenzene	9.748	91	4241397	119.961	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.793	131	854888	123.793	ug/L		98
81) p/m Xylene	9.938	106	3225018	238.615	ug/L		99
82) o Xylene	10.472	106	3115765	238.900	ug/L		98
83) Styrene	10.536	104	5033892	243.584	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P12.D
Acq On : 28 Nov 2023 2:13 am
Operator : ELAINE:PID
Sample : I8260STD120PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:02:07 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85) Bromoform	10.558	173	472778	128.602	ug/L		100
87) Isopropylbenzene	10.847	105	4321105	126.793	ug/L		100
89) Bromobenzene	11.276	156	1010506	122.597	ug/L		100
90) n-Propylbenzene	11.323	91	5024014	124.059	ug/L		98
91) 1,4-Dichlorobutane	11.337	55	1223224	120.177	ug/L	#	89
92) 1,1,2,2-Tetrachloroethane	11.407	83	650745	120.341	ug/L		99
93) 4-Ethyltoluene	11.448	105	4257310	125.105	ug/L		99
94) 2-Chlorotoluene	11.487	91	2971188M1	121.450	ug/L		
95) 1,3,5-Trimethylbenzene	11.546	105	3639790	125.673	ug/L		99
96) 1,2,3-Trichloropropane	11.546	75	557311	118.496	ug/L		96
97) trans-1,4-Dichloro-2-b...	11.596	53	244568	127.209	ug/L	#	87
98) 4-Chlorotoluene	11.671	91	3126458	124.548	ug/L		98
99) tert-Butylbenzene	11.882	119	3066883	126.077	ug/L		97
102) 1,2,4-Trimethylbenzene	11.960	105	3607152	124.618	ug/L		99
103) sec-Butylbenzene	12.072	105	4402832	125.034	ug/L		96
104) p-Isopropyltoluene	12.225	119	3792492	127.612	ug/L		97
105) 1,3-Dichlorobenzene	12.289	146	1941844	120.721	ug/L		98
106) 1,4-Dichlorobenzene	12.380	146	1942986	120.565	ug/L		98
107) p-Diethylbenzene	12.595	119	2202469	126.474	ug/L		97
108) n-Butylbenzene	12.653	91	3036853	123.714	ug/L		98
109) 1,2-Dichlorobenzene	12.800	146	1799751	120.635	ug/L		99
110) 1,2,4,5-Tetramethylben...	13.382	119	3386315	131.482	ug/L		96
111) 1,2-Dibromo-3-chloropr...	13.577	155	114865	133.658	ug/L		97
112) 1,3,5-Trichlorobenzene	13.607	180	1317578	124.102	ug/L		97
113) Hexachlorobutadiene	14.178	225	418908	123.274	ug/L		99
114) 1,2,4-Trichlorobenzene	14.203	180	1170248	128.819	ug/L		98
115) Naphthalene	14.495	128	2565334	136.861	ug/L		100
116) 1,2,3-Trichlorobenzene	14.662	180	1032666	130.444	ug/L		99

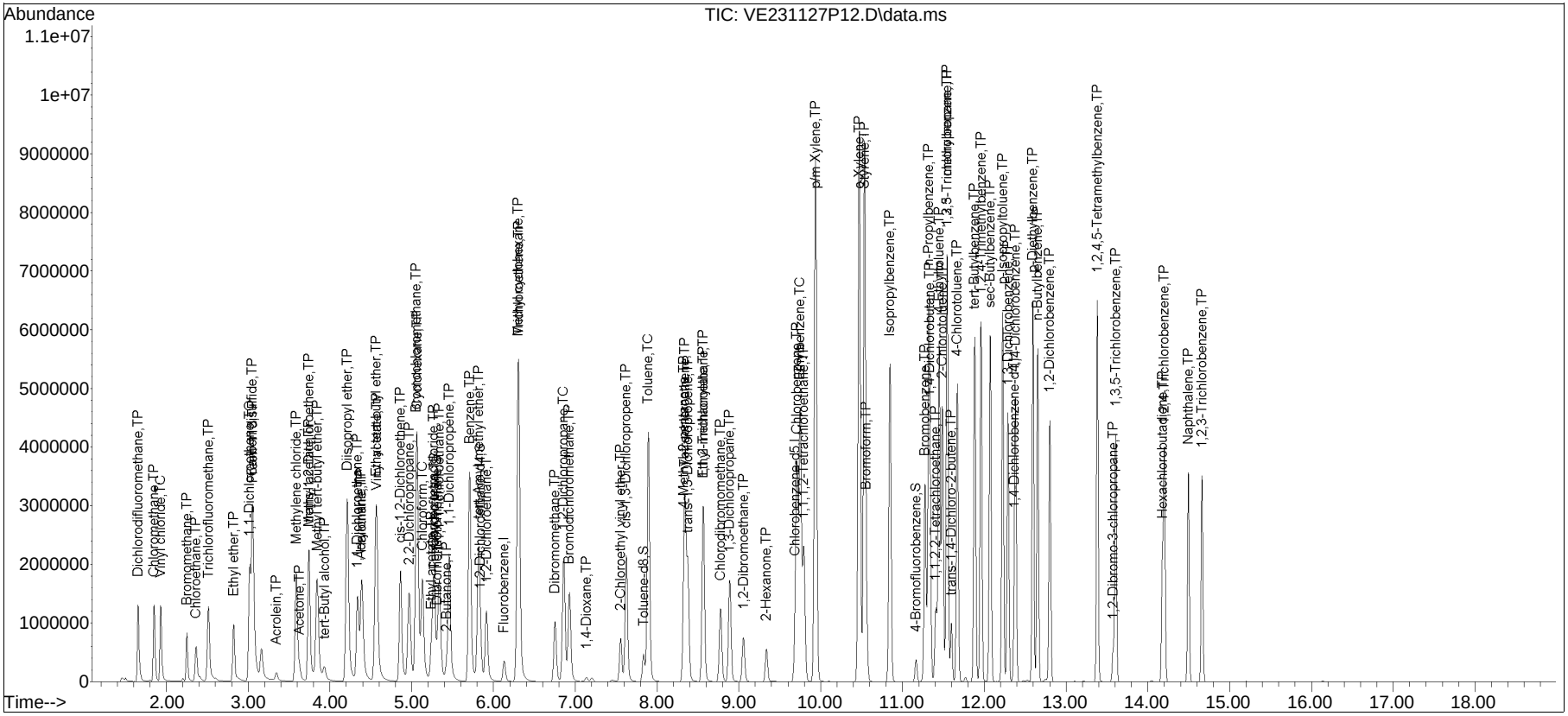
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P12.D
Acq On : 28 Nov 2023 2:13 am
Operator : ELAINE:PID
Sample : I8260STD120PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:02:07 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

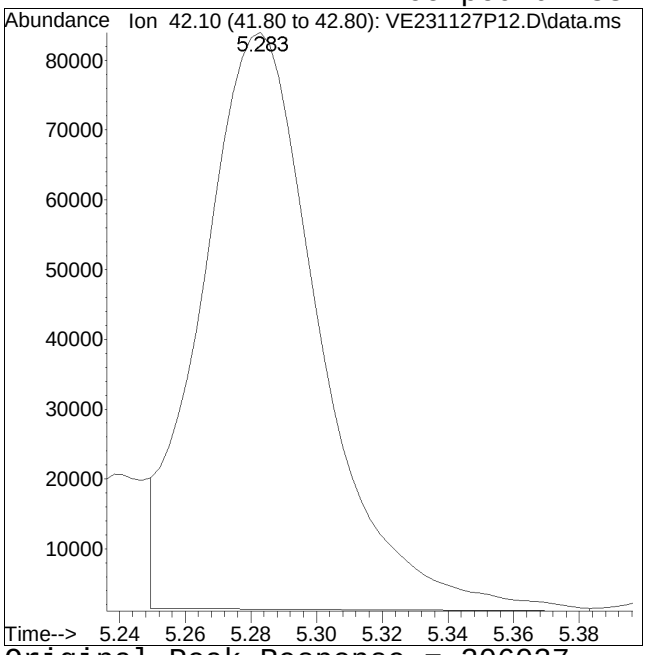
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



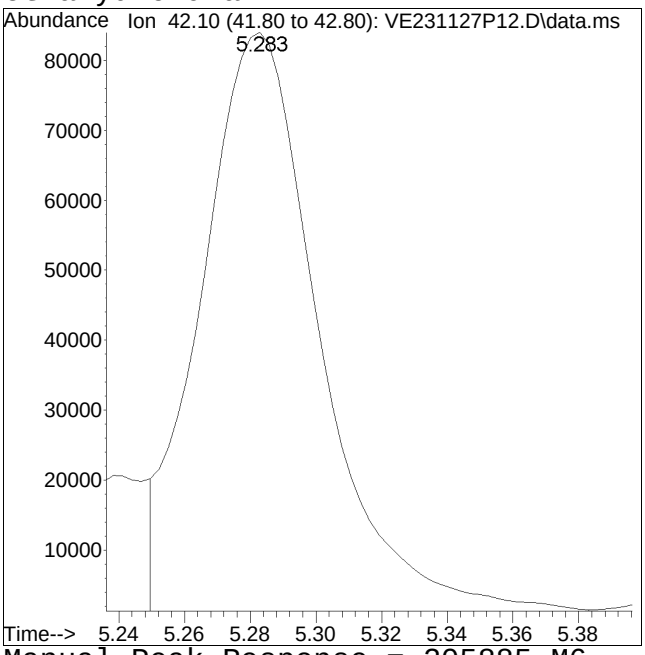
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P12.D Operator : ELAINE:PID
Date Inj'd : 11/28/2023 2:13 am Instrument : Elaine
Sample : I8260STD120PPB Quant Date : 11/28/2023 12:02 pm

Compound #38: Tetrahydrofuran



Original Peak Response = 206037



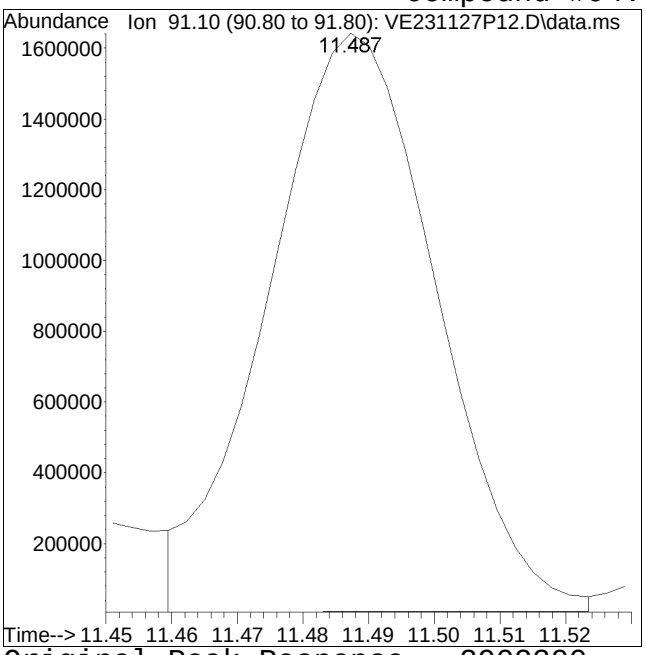
Manual Peak Response = 205885 M6

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

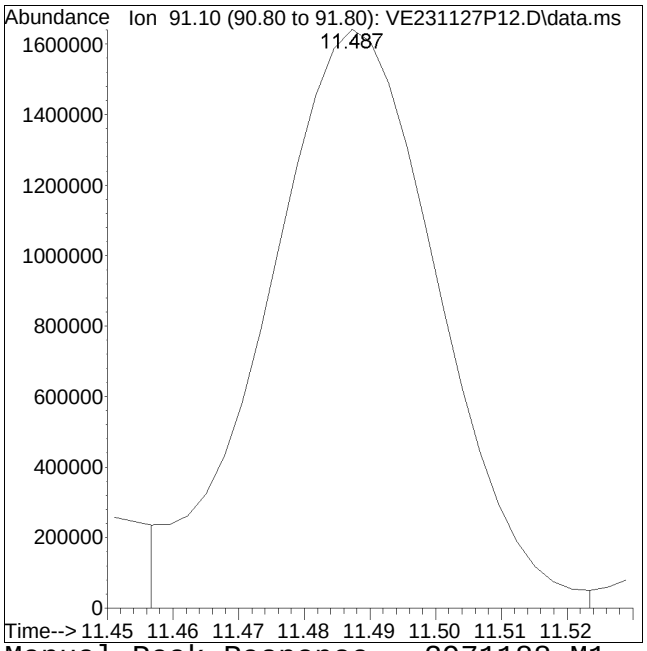
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P12.D Operator : ELAINE:PID
Date Inj'd : 11/28/2023 2:13 am Instrument : Elaine
Sample : I8260STD120PPB Quant Date : 11/28/2023 12:02 pm

Compound #94: 2-Chlorotoluene



Original Peak Response = 2902300



Manual Peak Response = 2971188 M1

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P13.D
Acq On : 28 Nov 2023 2:38 am
Operator : ELAINE:PID
Sample : I8260STD200PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:02:16 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.132	96	401227	10.000	ug/L	0.00
Standard Area 1 = 338625			Recovery = 118.49%			
63) Chlorobenzene-d5	9.687	117	334905	10.000	ug/L	0.00
Standard Area 1 = 298875			Recovery = 112.06%			
84) 1,4-Dichlorobenzene-d4	12.367	152	174522	10.000	ug/L	0.00
Standard Area 1 = 169300			Recovery = 103.08%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.311	113	94558	9.441	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.41%			
47) 1,2-Dichloroethane-d4	5.842	65	107479	9.502	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.02%			
64) Toluene-d8	7.834	98	391169	10.174	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.74%			
88) 4-Bromofluorobenzene	11.165	95	140701	10.657	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.57%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.655	85	1943331	195.344	ug/L	100
3) Chloromethane	1.850	50	2260394	198.614	ug/L	99
4) Vinyl chloride	1.930	62	2061097	199.452	ug/L	96
5) Bromomethane	2.250	94	786402	243.850	ug/L	100
6) Chloroethane	2.362	64	877518	165.745	ug/L	98
7) Trichlorofluoromethane	2.515	101	2004971	191.067	ug/L	99
8) Ethyl ether	2.823	74	619655	198.625	ug/L	71
10) 1,1-Dichloroethene	3.018	96	1343826	200.573	ug/L	98
11) Carbon disulfide	3.049	76	4079995	192.087	ug/L	99
12) Freon-113	3.057	101	1426246	191.385	ug/L	100
14) Acrolein	3.347	56	227432	207.092	ug/L	97
15) Methylene chloride	3.589	84	1480466	176.989	ug/L	81
17) Acetone	3.628	43	367687	165.911	ug/L #	89
18) trans-1,2-Dichloroethene	3.742	96	1459632	195.443	ug/L	98
19) Methyl acetate	3.750	43	879040	186.509	ug/L	94
21) Methyl tert-butyl ether	3.842	73	3678491	202.771	ug/L	96
22) tert-Butyl alcohol	3.934	59	500580	1084.873	ug/L #	99
24) Diisopropyl ether	4.209	45	6618322	202.507	ug/L	91
25) 1,1-Dichloroethane	4.337	63	3136247	194.581	ug/L	97
26) Halothane	4.390	117	1153375	197.103	ug/L	100
27) Acrylonitrile	4.382	53	443154	200.671	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P13.D
Acq On : 28 Nov 2023 2:38 am
Operator : ELAINE:PID
Sample : I8260STD200PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:02:16 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Ethyl tert-butyl ether	4.565	59	5369043	206.568	ug/L	#	79
29) Vinyl acetate	4.573	43	2207079	172.354	ug/L		97
30) cis-1,2-Dichloroethene	4.863	96	1701852	198.599	ug/L		96
31) 2,2-Dichloropropane	4.969	77	2171089	199.368	ug/L		98
33) Bromochloromethane	5.058	128	650847	174.706	ug/L	#	80
34) Cyclohexane	5.066	56	3603546	197.516	ug/L		79
35) Chloroform	5.130	83	2610493	192.213	ug/L		97
36) Ethyl acetate	5.238	43	1325512	205.604	ug/L	#	96
37) Carbon tetrachloride	5.269	117	2132134	209.640	ug/L		98
38) Tetrahydrofuran	5.283	42	361163M6	192.250	ug/L		
40) 1,1,1-Trichloroethane	5.336	97	2424925	198.935	ug/L		99
42) 2-Butanone	5.425	43	582738	204.432	ug/L	#	67
43) 1,1-Dichloropropene	5.458	75	2153606	205.772	ug/L		96
45) Benzene	5.709	78	6418752	202.635	ug/L		95
46) tert-Amyl methyl ether	5.820	73	3965131	212.115	ug/L		94
48) 1,2-Dichloroethane	5.915	62	2004975	191.139	ug/L		98
51) Methyl cyclohexane	6.301	83	2827066	203.230	ug/L	#	80
52) Trichloroethene	6.307	95	1680886	208.565	ug/L		98
54) Dibromomethane	6.752	93	835473	199.495	ug/L		91
55) 1,2-Dichloropropane	6.858	63	1845161	201.480	ug/L	#	92
57) 2-Chloroethyl vinyl ether	7.553	63	653126	192.712	ug/L		98
58) Bromodichloromethane	6.927	83	2101429	206.270	ug/L		99
61) 1,4-Dioxane	7.136	88	96223	2034.136	ug/L		91
62) cis-1,3-Dichloropropene	7.623	75	2518139	208.156	ug/L		93
65) Toluene	7.893	92	3836045	201.439	ug/L		100
66) 4-Methyl-2-pentanone	8.327	58	473397	219.287	ug/L		87
67) Tetrachloroethene	8.341	166	1751245	204.927	ug/L		95
69) trans-1,3-Dichloropropene	8.377	75	2082171	216.025	ug/L		91
71) Ethyl methacrylate	8.566	69	1425489	215.592	ug/L		94
72) 1,1,2-Trichloroethane	8.563	83	970508	200.491	ug/L		99
73) Chlorodibromomethane	8.775	129	1495030	218.884	ug/L		98
74) 1,3-Dichloropropane	8.889	76	2084899	205.511	ug/L		100
75) 1,2-Dibromoethane	9.056	107	1175292	211.132	ug/L		100
77) 2-Hexanone	9.337	43	829601	216.158	ug/L		93
78) Chlorobenzene	9.710	112	4086912	196.019	ug/L		90
79) Ethylbenzene	9.751	91	7176726	196.396	ug/L		100
80) 1,1,1,2-Tetrachloroethane	9.796	131	1469136	205.838	ug/L		98
81) p/m Xylene	9.940	106	5321531	380.958	ug/L		100
82) o Xylene	10.475	106	5122625	380.031	ug/L		99
83) Styrene	10.539	104	8291123	388.179	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P13.D
Acq On : 28 Nov 2023 2:38 am
Operator : ELAINE:PID
Sample : I8260STD200PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:02:16 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85) Bromoform	10.564	173	821504	223.759	ug/L		100
87) Isopropylbenzene	10.847	105	7279941	213.900	ug/L		99
89) Bromobenzene	11.279	156	1706266	207.286	ug/L		100
90) n-Propylbenzene	11.323	91	8192604	202.574	ug/L		98
91) 1,4-Dichlorobutane	11.340	55	2074363	204.071	ug/L	#	88
92) 1,1,2,2-Tetrachloroethane	11.407	83	1088003	201.472	ug/L		99
93) 4-Ethyltoluene	11.451	105	6947123	204.422	ug/L		98
94) 2-Chlorotoluene	11.490	91	4948276M1	202.537	ug/L		
95) 1,3,5-Trimethylbenzene	11.549	105	5904819	204.152	ug/L		98
96) 1,2,3-Trichloropropane	11.546	75	950400	202.346	ug/L		98
97) trans-1,4-Dichloro-2-b...	11.599	53	412328	214.755	ug/L	#	88
98) 4-Chlorotoluene	11.671	91	5205277	207.639	ug/L		97
99) tert-Butylbenzene	11.885	119	5007098	206.113	ug/L		98
102) 1,2,4-Trimethylbenzene	11.963	105	5915906	204.654	ug/L		99
103) sec-Butylbenzene	12.074	105	7171625	203.936	ug/L		96
104) p-Isopropyltoluene	12.227	119	6246961	210.483	ug/L		98
105) 1,3-Dichlorobenzene	12.291	146	3206690	199.621	ug/L		99
106) 1,4-Dichlorobenzene	12.383	146	3234165	200.953	ug/L		98
107) p-Diethylbenzene	12.597	119	3767394	216.628	ug/L		97
108) n-Butylbenzene	12.653	91	5201192	212.168	ug/L		98
109) 1,2-Dichlorobenzene	12.803	146	3030334	203.391	ug/L		99
110) 1,2,4,5-Tetramethylben...	13.385	119	5840230	227.065	ug/L		96
111) 1,2-Dibromo-3-chloropr...	13.577	155	205847	239.847	ug/L		97
112) 1,3,5-Trichlorobenzene	13.610	180	2243275	211.575	ug/L		97
113) Hexachlorobutadiene	14.178	225	708034	208.635	ug/L		99
114) 1,2,4-Trichlorobenzene	14.203	180	1920584	211.698	ug/L		99
115) Naphthalene	14.495	128	4315983	230.568	ug/L		100
116) 1,2,3-Trichlorobenzene	14.665	180	1729849	218.803	ug/L		99

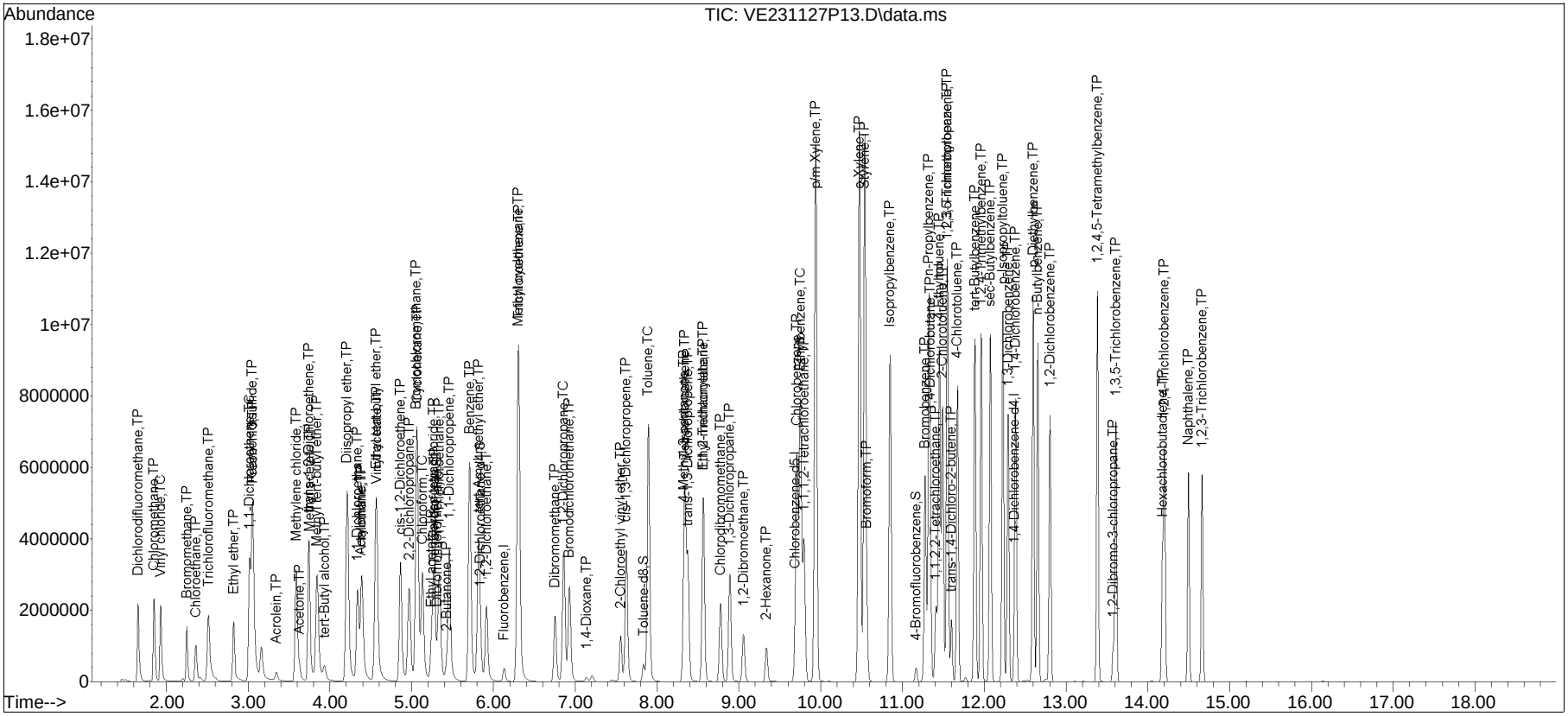
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P13.D
Acq On : 28 Nov 2023 2:38 am
Operator : ELAINE:PID
Sample : I8260STD200PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:02:16 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:00:47 2023
Response via : Initial Calibration

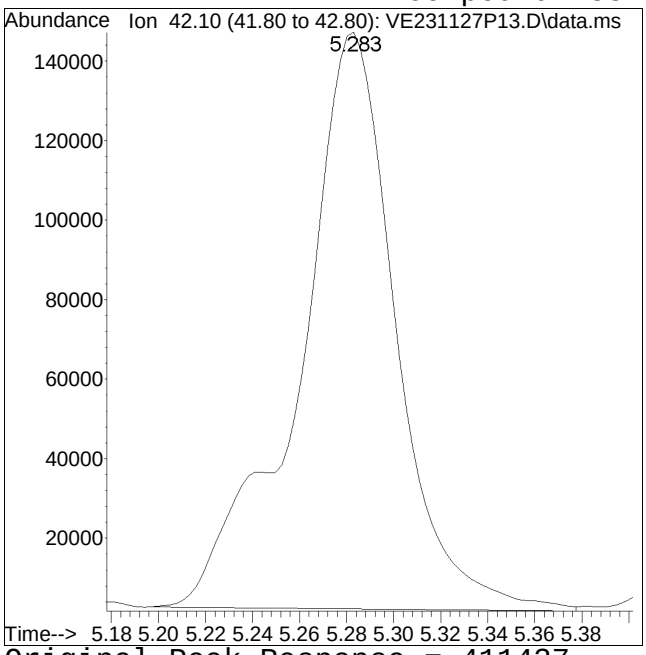
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



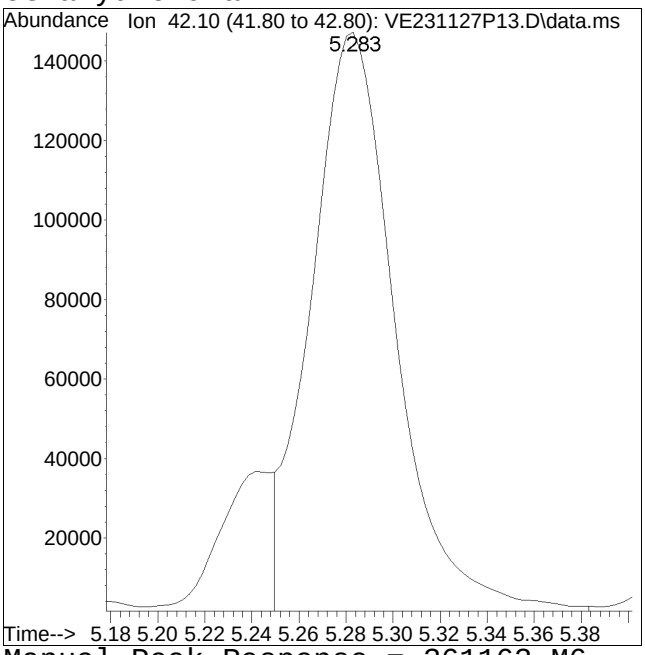
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P13.D Operator : ELAINE:PID
Date Inj'd : 11/28/2023 2:38 am Instrument : Elaine
Sample : I8260STD200PPB Quant Date : 11/28/2023 12:02 pm

Compound #38: Tetrahydrofuran



Original Peak Response = 411437



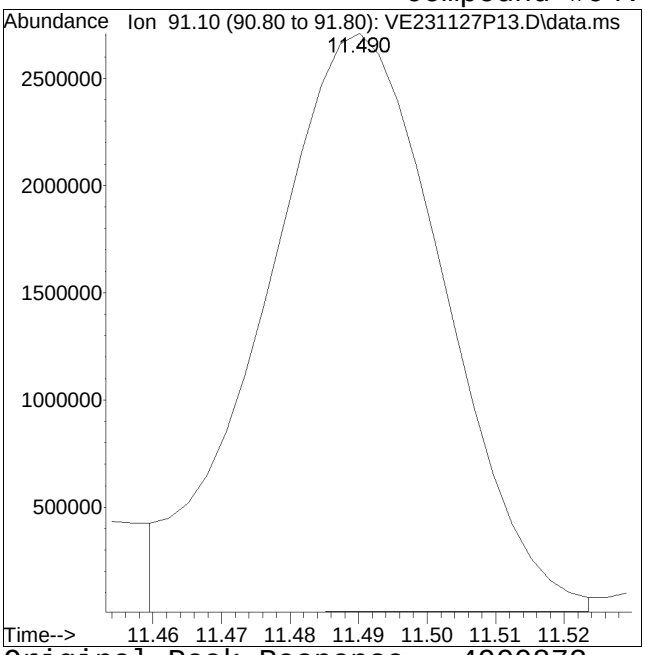
Manual Peak Response = 361163 M6

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

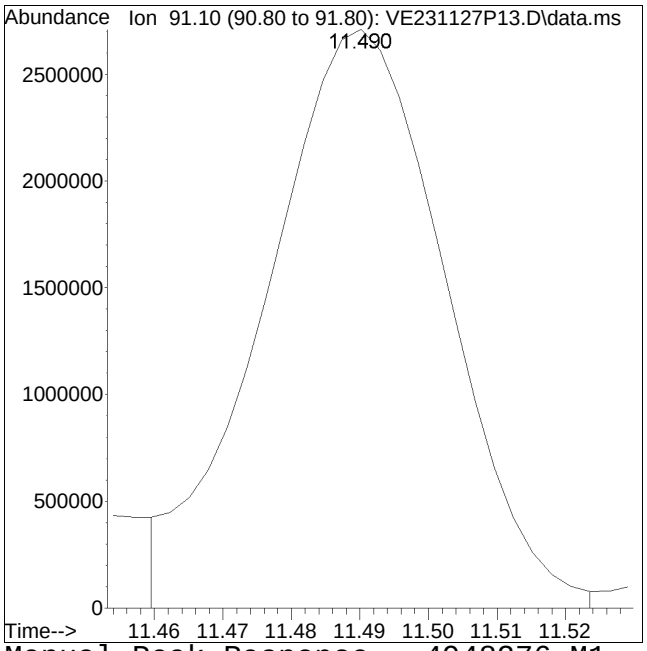
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P13.D Operator : ELAINE:PID
Date Inj'd : 11/28/2023 2:38 am Instrument : Elaine
Sample : I8260STD200PPB Quant Date : 11/28/2023 12:02 pm

Compound #94: 2-Chlorotoluene



Original Peak Response = 4900873



Manual Peak Response = 4948276 M1

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

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P18.D
Acq On : 28 Nov 2023 4:40 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:15:42 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	108	0.00
2	TP	Dichlorodifluoromethane	0.248	0.195	21.4#	82	0.00
3	TP	Chloromethane	0.284	0.291	-2.5	102	0.00
4	TC	Vinyl chloride	0.258	0.245	5.0	96	0.00
5	TP	Bromomethane	0.080	0.066	17.5	97	0.00
6	TP	Chloroethane	0.132	0.134	-1.5	101	0.00
7	TP	Trichlorofluoromethane	0.262	0.255	2.7	100	0.00
8	TP	Ethyl ether	0.078	0.091	-16.7	126	0.00
10	TC	1,1-Dichloroethene	0.167	0.169	-1.2	108	0.00
11	TP	Carbon disulfide	0.529	0.454	14.2	88	0.00
12	TP	Freon-113	0.186	0.166	10.8	88	0.00
14	TP	Acrolein	0.027	0.019	29.6#	72	0.00
15	TP	Methylene chloride	0.208	0.196	5.8	99	0.00
17	TP	Acetone	0.050	0.040	20.0#	87	0.00
18	TP	trans-1,2-Dichloroethene	0.186	0.186	0.0	107	0.00
19	TP	Methyl acetate	0.117	0.111	5.1	106	0.00
21	TP	Methyl tert-butyl ether	0.452	0.440	2.7	102	0.00
22	TP	tert-Butyl alcohol	0.012	0.012	0.0	108	0.00
24	TP	Diisopropyl ether	0.815	0.803	1.5	104	0.00
25	TP	1,1-Dichloroethane	0.402	0.386	4.0	97	0.00
26	TP	Halothane	0.146	0.135	7.5	95	0.00
27	TP	Acrylonitrile	0.055	0.058	-5.5	113	0.00
28	TP	Ethyl tert-butyl ether	0.648	0.626	3.4	103	0.00
29	TP	Vinyl acetate	0.319	0.226	29.2#	80	0.00
30	TP	cis-1,2-Dichloroethene	0.214	0.204	4.7	101	0.00
31	TP	2,2-Dichloropropane	0.271	0.237	12.5	91	0.00
33	TP	Bromochloromethane	0.093	0.092#	1.1	100	0.00
34	TP	Cyclohexane	0.455	0.387	14.9	85	0.00
35	TC	Chloroform	0.338	0.328	3.0	101	0.00
36	TP	Ethyl acetate	0.161	0.157	2.5	105	0.00
37	TP	Carbon tetrachloride	0.253	0.244	3.6	99	0.00
38	TP	Tetrahydrofuran	0.047	0.054	-14.9	130	0.00
39	S	Dibromofluoromethane	0.250	0.251	-0.4	105	0.00
40	TP	1,1,1-Trichloroethane	0.304	0.292	3.9	101	0.00
42	TP	2-Butanone	0.071	0.063	11.3	99	0.00
43	TP	1,1-Dichloropropene	0.261	0.247	5.4	97	0.00
45	TP	Benzene	0.789	0.766	2.9	102	0.00
46	TP	tert-Amyl methyl ether	0.466	0.444	4.7	104	0.00
47	S	1,2-Dichloroethane-d4	0.282	0.274	2.8	99	0.00

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P18.D
Acq On : 28 Nov 2023 4:40 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:15:42 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	T	1,2-Dichloroethane	0.261	0.243	6.9	102	0.00
51	TP	Methyl cyclohexane	0.347	0.297	14.4	89	0.00
52	TP	Trichloroethene	0.201	0.214	-6.5	108	0.00
54	TP	Dibromomethane	0.104	0.098	5.8	101	0.00
55	TC	1,2-Dichloropropane	0.228	0.215	5.7	101	0.00
57	TP	2-Chloroethyl vinyl ether	0.084	0.087	-3.6	106	0.00
58	TP	Bromodichloromethane	0.254	0.237#	6.7	98	0.00
61	TP	1,4-Dioxane	0.00118	0.00113#	4.2	104	0.00
62	TP	cis-1,3-Dichloropropene	0.302	0.286#	5.3	104	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64	S	Toluene-d8	1.148	1.131	1.5	106	0.00
65	TC	Toluene	0.569	0.547	3.9	102	0.00
66	TP	4-Methyl-2-pentanone	0.064	0.056	12.5	99	0.00
67	TP	Tetrachloroethene	0.255	0.247	3.1	103	0.00
69	TP	trans-1,3-Dichloropropene	0.288	0.267#	7.3	101	0.00
71	TP	Ethyl methacrylate	0.197	0.231	-17.3	126	0.00
72	TP	1,1,2-Trichloroethane	0.145	0.136#	6.2	99	0.00
73	TP	Chlorodibromomethane	0.204	0.191#	6.4	104	0.00
74	TP	1,3-Dichloropropane	0.303	0.286	5.6	102	0.00
75	TP	1,2-Dibromoethane	0.166	0.159#	4.2	103	0.00
77	TP	2-Hexanone	0.115	0.100	13.0	99	0.00
78	TP	Chlorobenzene	0.623	0.599	3.9	101	0.00
79	TC	Ethylbenzene	1.091	1.064	2.5	101	0.00
80	TP	1,1,1,2-Tetrachloroethane	0.213	0.201	5.6	101	0.00
81	TP	p/m Xylene	0.417	0.415	0.5	101	0.00
82	TP	o Xylene	0.402	0.436	-8.5	110	0.00
83	TP	Styrene	0.638	0.705	-10.5	111	0.00
84	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
85	TP	Bromoform	0.210	0.193	8.1	100	0.00
87	TP	Isopropylbenzene	1.950	1.795	7.9	95	0.00
88	S	4-Bromofluorobenzene	0.757	0.760	-0.4	107	0.00
89	TP	Bromobenzene	0.472	0.451	4.4	100	0.00
90	TP	n-Propylbenzene	2.317	2.278	1.7	101	0.00
91	TP	1,4-Dichlorobutane	0.582	0.707	-21.5#	129	0.00
92	TP	1,1,2,2-Tetrachloroethane	0.309	0.272	12.0	94	0.00
93	TP	4-Ethyltoluene	1.947	1.976	-1.5	105	0.00
94	TP	2-Chlorotoluene	1.400	1.376	1.7	103	0.00

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P18.D
Acq On : 28 Nov 2023 4:40 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:15:42 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
95 TP	1,3,5-Trimethylbenzene	1.657	1.607	3.0	100	0.00
96 TP	1,2,3-Trichloropropane	0.269	0.258	4.1	101	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.110	0.119	-8.2	119	0.00
98 TP	4-Chlorotoluene	1.436	1.372	4.5	100	0.00
99 TP	tert-Butylbenzene	1.392	1.375	1.2	101	0.00
102 TP	1,2,4-Trimethylbenzene	1.656	1.623	2.0	102	0.00
103 TP	sec-Butylbenzene	2.015	1.987	1.4	101	0.00
104 TP	p-Isopropyltoluene	1.701	1.660	2.4	100	0.00
105 TP	1,3-Dichlorobenzene	0.920	0.898	2.4	104	0.00
106 TP	1,4-Dichlorobenzene	0.922	0.892	3.3	102	0.00
107 TP	p-Diethylbenzene	0.996	0.930	6.6	99	0.00
108 TP	n-Butylbenzene	1.405	1.424	-1.4	104	0.00
109 TP	1,2-Dichlorobenzene	0.854	0.824	3.5	102	0.00
110 TP	1,2,4,5-Tetramethylbenzene	1.474	1.427	3.2	103	0.00
111 TP	1,2-Dibromo-3-chloropropane	0.049	0.048	2.0	109	0.00
112 TP	1,3,5-Trichlorobenzene	0.608	0.563	7.4	98	0.00
113 TP	Hexachlorobutadiene	0.194	0.176	9.3	95	0.00
114 TP	1,2,4-Trichlorobenzene	0.520	0.497	4.4	104	0.00
115 TP	Naphthalene	1.073	0.982	8.5	102	0.00
116 TP	1,2,3-Trichlorobenzene	0.453	0.425	6.2	102	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 8 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P18.D
Acq On : 28 Nov 2023 4:40 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:15:42 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	6.129	96	365529	10.000	ug/L		0.00
Standard Area 1 = 338625			Recovery = 107.95%				
63) Chlorobenzene-d5	9.687	117	319182	10.000	ug/L		0.00
Standard Area 1 = 298875			Recovery = 106.79%				
84) 1,4-Dichlorobenzene-d4	12.364	152	179259	10.000	ug/L		0.00
Standard Area 1 = 169300			Recovery = 105.88%				
System Monitoring Compounds							
39) Dibromofluoromethane	5.311	113	91637	10.043	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.43%				
47) 1,2-Dichloroethane-d4	5.845	65	100184	9.722	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.22%				
64) Toluene-d8	7.834	98	361012	9.853	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.53%				
88) 4-Bromofluorobenzene	11.164	95	136233	10.046	ug/L		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.46%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.658	85	71181	7.854	ug/L		99
3) Chloromethane	1.852	50	106226	10.245	ug/L		97
4) Vinyl chloride	1.933	62	89655	9.523	ug/L		96
5) Bromomethane	2.253	94	24076	8.195	ug/L		98
6) Chloroethane	2.373	64	48911	10.141	ug/L		100
7) Trichlorofluoromethane	2.517	101	93180	9.747	ug/L		100
8) Ethyl ether	2.826	74	33301	11.717	ug/L		68
10) 1,1-Dichloroethene	3.021	96	61738	10.115	ug/L		93
11) Carbon disulfide	3.051	76	165955	8.576	ug/L		99
12) Freon-113	3.060	101	60689	8.939	ug/L		99
14) Acrolein	3.344	56	7070	7.066	ug/L		99
15) Methylene chloride	3.591	84	71571	9.392	ug/L		82
17) Acetone	3.630	43	14800	8.135	ug/L	#	90
18) trans-1,2-Dichloroethene	3.744	96	67813	9.967	ug/L		99
19) Methyl acetate	3.750	43	40442	9.419	ug/L		93
21) Methyl tert-butyl ether	3.844	73	160829	9.731	ug/L		90
22) tert-Butyl alcohol	3.931	59	21685	51.586	ug/L	#	95
24) Diisopropyl ether	4.212	45	293584	9.860	ug/L		92
25) 1,1-Dichloroethane	4.340	63	141154	9.613	ug/L		98
26) Halothane	4.390	117	49174	9.224	ug/L		99
27) Acrylonitrile	4.384	53	21110	10.493	ug/L	#	91

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P18.D
Acq On : 28 Nov 2023 4:40 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:15:42 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Ethyl tert-butyl ether	4.565	59	228953	9.669	ug/L	#	76
29) Vinyl acetate	4.576	43	82657	7.085	ug/L		96
30) cis-1,2-Dichloroethene	4.863	96	74711	9.570	ug/L		99
31) 2,2-Dichloropropane	4.968	77	86795	8.749	ug/L		95
33) Bromochloromethane	5.057	128	33756	9.946	ug/L		87
34) Cyclohexane	5.066	56	141531	8.515	ug/L		83
35) Chloroform	5.130	83	119989	9.698	ug/L		96
36) Ethyl acetate	5.241	43	57288	9.754	ug/L	#	95
37) Carbon tetrachloride	5.269	117	89134	9.620	ug/L		97
38) Tetrahydrofuran	5.286	42	19594M6	11.449	ug/L		
40) 1,1,1-Trichloroethane	5.336	97	106674	9.606	ug/L		97
42) 2-Butanone	5.430	43	23137	8.909	ug/L	#	75
43) 1,1-Dichloropropene	5.458	75	90216	9.462	ug/L		96
45) Benzene	5.709	78	279970	9.702	ug/L		96
46) tert-Amyl methyl ether	5.820	73	162344	9.533	ug/L	#	90
48) 1,2-Dichloroethane	5.914	62	88930	9.306	ug/L		97
51) Methyl cyclohexane	6.301	83	108451	8.558	ug/L		83
52) Trichloroethene	6.309	95	78175	10.647	ug/L		98
54) Dibromomethane	6.752	93	35833	9.392	ug/L		90
55) 1,2-Dichloropropane	6.858	63	78464	9.405	ug/L	#	91
57) 2-Chloroethyl vinyl ether	7.553	63	31702	10.268	ug/L		97
58) Bromodichloromethane	6.930	83	86748	9.347	ug/L		100
61) 1,4-Dioxane	7.136	88	20721	480.817	ug/L		88
62) cis-1,3-Dichloropropene	7.623	75	104677	9.498	ug/L		96
65) Toluene	7.893	92	174515	9.616	ug/L		100
66) 4-Methyl-2-pentanone	8.324	58	17775	8.639	ug/L		94
67) Tetrachloroethene	8.341	166	78753	9.669	ug/L		93
69) trans-1,3-Dichloropropene	8.377	75	85158	9.270	ug/L		92
71) Ethyl methacrylate	8.566	69	73639	11.686	ug/L		99
72) 1,1,2-Trichloroethane	8.560	83	43374	9.402	ug/L		99
73) Chlorodibromomethane	8.777	129	60916	9.358	ug/L		97
74) 1,3-Dichloropropane	8.889	76	91260	9.439	ug/L		98
75) 1,2-Dibromoethane	9.056	107	50851	9.585	ug/L		97
77) 2-Hexanone	9.339	43	31852	8.708	ug/L		97
78) Chlorobenzene	9.707	112	191215	9.623	ug/L		90
79) Ethylbenzene	9.748	91	339565	9.750	ug/L		98
80) 1,1,1,2-Tetrachloroethane	9.790	131	64030	9.413	ug/L		98
81) p/m Xylene	9.935	106	265142	19.916	ug/L		97
82) o Xylene	10.469	106	278087	21.647	ug/L		95
83) Styrene	10.533	104	449833	22.098	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P18.D
Acq On : 28 Nov 2023 4:40 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:15:42 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231127P-ICAL\VE231127P09.D
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
85)	Bromoform	10.555	173	34612	9.178	ug/L		99
87)	Isopropylbenzene	10.847	105	321685	9.202	ug/L		99
89)	Bromobenzene	11.276	156	80768	9.553	ug/L		98
90)	n-Propylbenzene	11.320	91	408432	9.832	ug/L		99
91)	1,4-Dichlorobutane	11.337	55	126823	12.147	ug/L	#	89
92)	1,1,2,2-Tetrachloroethane	11.407	83	48743	8.787	ug/L		98
93)	4-Ethyltoluene	11.445	105	354190	10.147	ug/L		99
94)	2-Chlorotoluene	11.484	91	246678M1	9.830	ug/L		
95)	1,3,5-Trimethylbenzene	11.543	105	288035	9.695	ug/L		100
96)	1,2,3-Trichloropropane	11.543	75	46255	9.588	ug/L		97
97)	trans-1,4-Dichloro-2-b...	11.596	53	21283	10.792	ug/L	#	80
98)	4-Chlorotoluene	11.668	91	245871	9.549	ug/L		98
99)	tert-Butylbenzene	11.882	119	246555	9.881	ug/L		96
102)	1,2,4-Trimethylbenzene	11.957	105	290978	9.800	ug/L		100
103)	sec-Butylbenzene	12.072	105	356189	9.861	ug/L		97
104)	p-Isopropyltoluene	12.225	119	297525	9.760	ug/L		98
105)	1,3-Dichlorobenzene	12.289	146	160903	9.752	ug/L		98
106)	1,4-Dichlorobenzene	12.380	146	159831	9.669	ug/L		99
107)	p-Diethylbenzene	12.595	119	166800	9.338	ug/L		97
108)	n-Butylbenzene	12.650	91	255222	10.136	ug/L		98
109)	1,2-Dichlorobenzene	12.800	146	147656	9.649	ug/L		99
110)	1,2,4,5-Tetramethylben...	13.382	119	255772	9.681	ug/L		98
111)	1,2-Dibromo-3-chloropr...	13.574	155	8576	9.728	ug/L		98
112)	1,3,5-Trichlorobenzene	13.605	180	100835	9.259	ug/L		96
113)	Hexachlorobutadiene	14.178	225	31491	9.034	ug/L		98
114)	1,2,4-Trichlorobenzene	14.203	180	89175	9.570	ug/L		98
115)	Naphthalene	14.495	128	176121	9.160	ug/L		100
116)	1,2,3-Trichlorobenzene	14.662	180	76198	9.383	ug/L		99

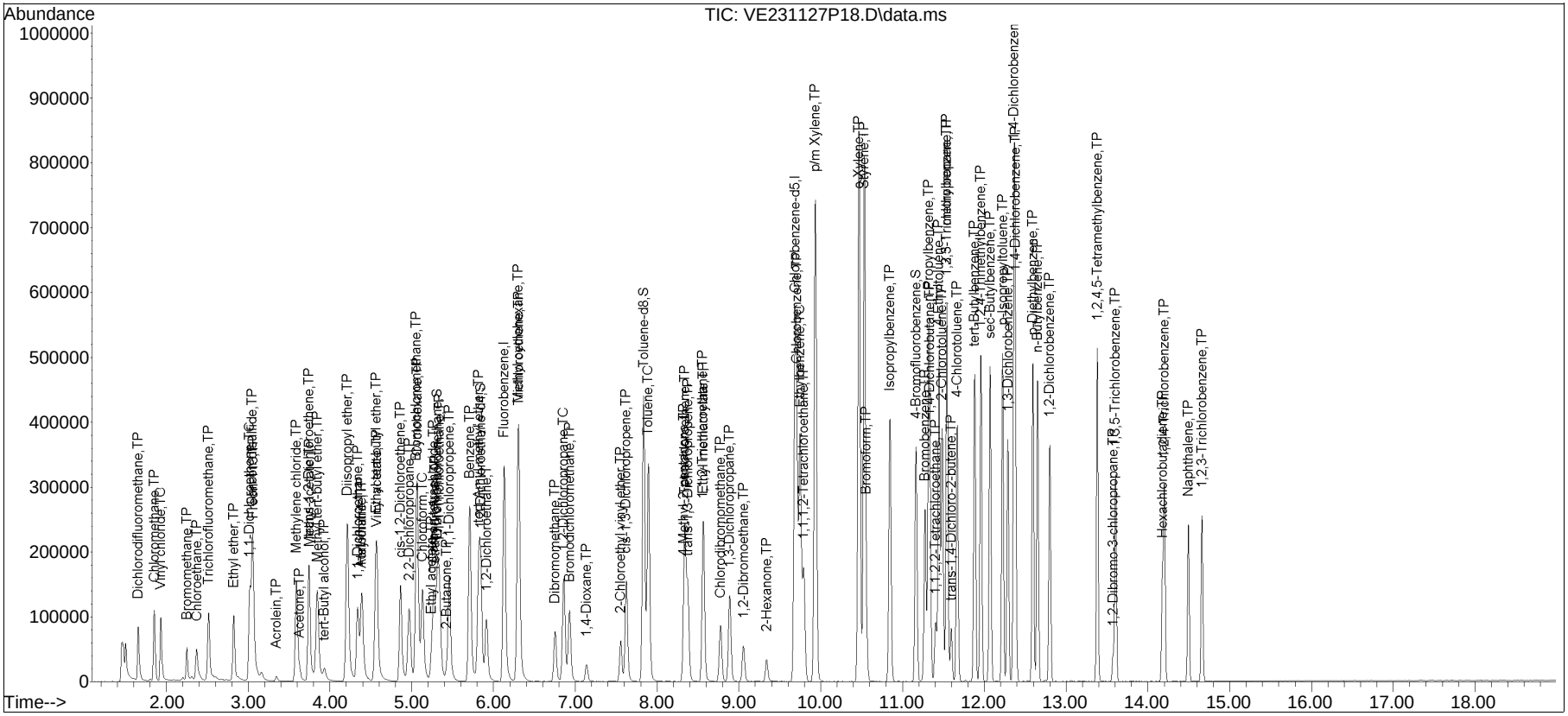
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231127P-ICAL\
Data File : VE231127P18.D
Acq On : 28 Nov 2023 4:40 am
Operator : ELAINE:PID
Sample : C8260STD10PPB
Misc : WG1857075,ICAL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Nov 28 12:15:42 2023
Quant Method : K:\Elaine\2023\231127P-ICAL\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

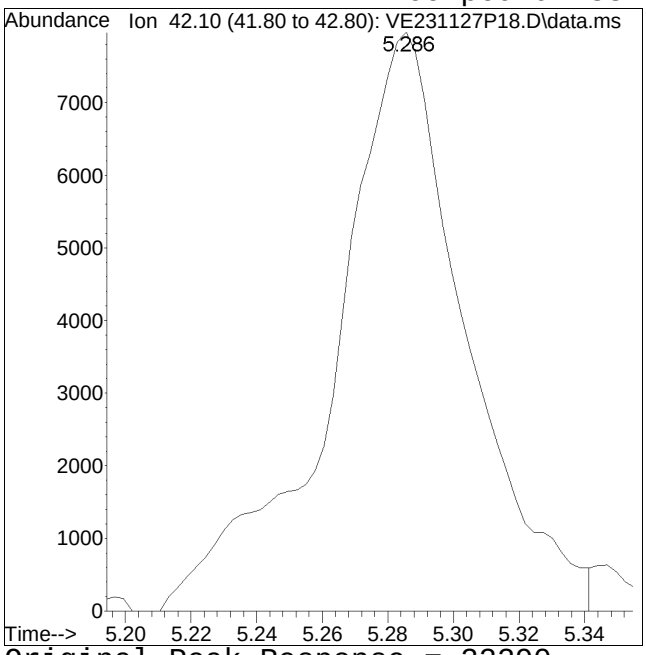
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



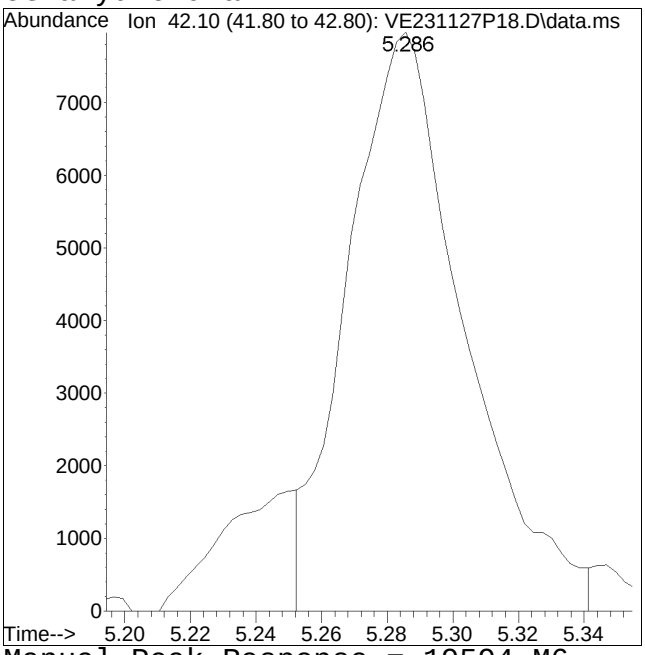
Manual Integration Report

Data Path : K:\Elaine\2023\231127P-ICAQMethod : Elaine_231127N_8260.m
Data File : VE231127P18.D Operator : ELAINE:PID
Date Inj'd : 11/28/2023 4:40 am Instrument : Elaine
Sample : C8260STD10PPB Quant Date : 11/28/2023 12:14 pm

Compound #38: Tetrahydrofuran



Original Peak Response = 22290



Manual Peak Response = 19594 M6

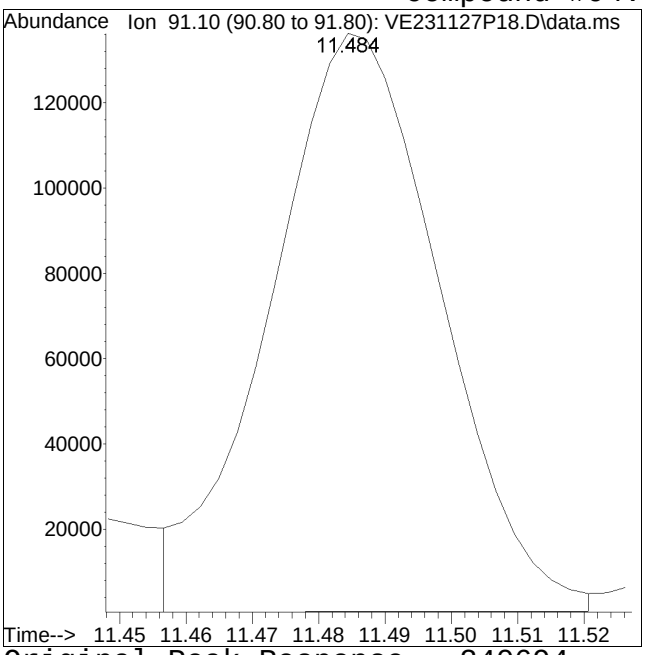
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

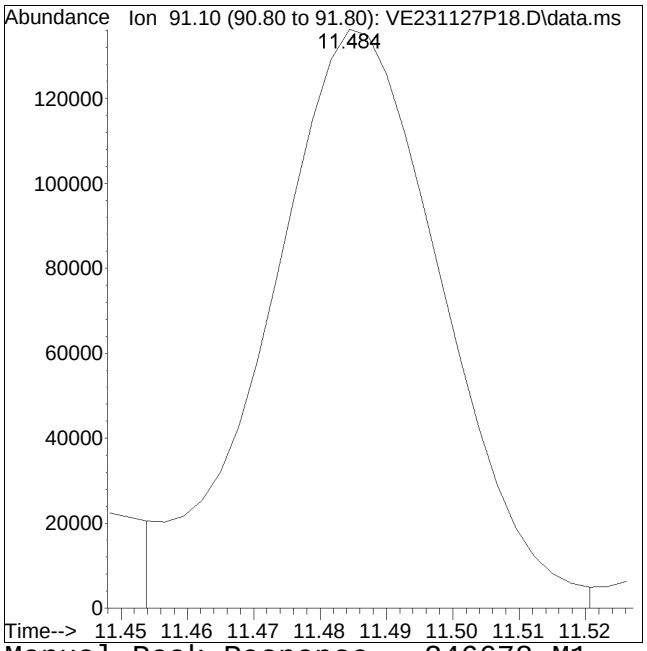
Data Path : K:\Elaine\2023\231127P-ICAQ
Data File : VE231127P18.D
Date Inj'd : 11/28/2023 4:40 am
Sample : C8260STD10PPB

Method : Elaine_231127N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 11/28/2023 12:14 pm

Compound #94: 2-Chlorotoluene



Original Peak Response = 240694



Manual Peak Response = 246678 M1

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

Continuing Calibration

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: ELAINE	**Calibration Date**	: 12/06/23 09:45		
Lab File ID	: VE231206B02	**Init. Calib. Date(s)**	: 11/27/23	11/28/23	
Sample No	: WG1860843-2	**Init. Calib. Times**	: 22:33	02:38	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	95	0
Dichlorodifluoromethane	0.248	0.17	-	31.5*	20	63	0
Chloromethane	0.284	0.184	-	35.2*	20	57	0
Vinyl chloride	0.258	0.211	-	18.2	20	73	0
Bromomethane	0.08	0.078	-	2.5	20	101	0
Chloroethane	0.132	0.126	-	4.5	20	84	0
Trichlorofluoromethane	0.262	0.304	-	-16	20	105	0
1,1-Dichloroethene	0.167	0.201	-	-20.4*	20	113	0
Carbon disulfide	0.529	0.606	-	-14.6	20	104	0
Freon-113	0.186	0.218	-	-17.2	20	102	0
Methylene chloride	0.208	0.23	-	-10.6	20	102	0
Acetone	0.05	0.028	-	44*	20	53	0
trans-1,2-Dichloroethene	0.186	0.219	-	-17.7	20	112	0
Methyl acetate	0.117	0.081	-	30.8*	20	68	0
Methyl tert-butyl ether	0.452	0.468	-	-3.5	20	96	0
1,1-Dichloroethane	0.402	0.411	-	-2.2	20	91	0
cis-1,2-Dichloroethene	0.214	0.257	-	-20.1*	20	112	0
Bromochloromethane	0.093	0.113	-	-21.5*	20	108	0
Cyclohexane	0.455	0.391	-	14.1	20	76	0
Chloroform	0.338	0.39	-	-15.4	20	106	0
Carbon tetrachloride	0.253	0.304	-	-20.2*	20	108	0
Dibromofluoromethane	0.25	0.257	-	-2.8	20	95	0
1,1,1-Trichloroethane	0.304	0.353	-	-16.1	20	108	0
2-Butanone	0.071	0.045	-	36.6*	20	63	0
Benzene	0.789	0.91	-	-15.3	20	106	0
1,2-Dichloroethane-d4	0.282	0.243	-	13.8	20	77	0
1,2-Dichloroethane	0.261	0.237	-	9.2	20	87	0
Methyl cyclohexane	0.347	0.386	-	-11.2	20	102	0
Trichloroethene	0.201	0.224	-	-11.4	20	100	0
1,2-Dichloropropane	0.228	0.213	-	6.6	20	88	0
Bromodichloromethane	0.254	0.277*	-	-9.1	20	101	0
1,4-Dioxane	0.00118	0.00134*	-	-13.6	20	109	0
cis-1,3-Dichloropropene	0.302	0.324	-	-7.3	20	104	0
Chlorobenzene-d5	1	1	-	0	20	97	0
Toluene-d8	1.148	1.134	-	1.2	20	96	0
Toluene	0.569	0.641	-	-12.7	20	108	0
4-Methyl-2-pentanone	0.064	0.043	-	32.8*	20	70	0
Tetrachloroethene	0.255	0.289	-	-13.3	20	110	0
trans-1,3-Dichloropropene	0.288	0.292*	-	-1.4	20	100	0
1,1,2-Trichloroethane	0.145	0.146*	-	-0.7	20	96	0
Chlorodibromomethane	0.204	0.204	-	0	20	101	0
1,2-Dibromoethane	0.166	0.167*	-	-0.6	20	98	0
2-Hexanone	0.115	0.069	-	40*	20	62	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: ELAINE	**Calibration Date**	: 12/06/23 09:45		
Lab File ID	: VE231206B02	**Init. Calib. Date(s)**	: 11/27/23	11/28/23	
Sample No	: WG1860843-2	**Init. Calib. Times**	: 22:33	02:38	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Chlorobenzene	0.623	0.699	-	-12.2	20	107	0
Ethylbenzene	1.091	1.234	-	-13.1	20	106	0
p/m Xylene	0.417	0.489	-	-17.3	20	108	0
o Xylene	0.402	0.469	-	-16.7	20	107	0
Styrene	0.638	0.755	-	-18.3	20	108	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
Bromoform	0.21	0.193	-	8.1	20	94	0
Isopropylbenzene	1.95	2.141	-	-9.8	20	107	0
4-Bromofluorobenzene	0.757	0.719	-	5	20	96	0
n-Propylbenzene	2.317	2.526	-	-9	20	105	0
1,1,2,2-Tetrachloroethane	0.309	0.326	-	-5.5	20	106	0
1,3,5-Trimethylbenzene	1.657	1.801	-	-8.7	20	105	0
tert-Butylbenzene	1.392	1.508	-	-8.3	20	104	0
1,2,4-Trimethylbenzene	1.656	1.746	-	-5.4	20	104	0
sec-Butylbenzene	2.015	2.158	-	-7.1	20	103	0
p-Isopropyltoluene	1.701	1.837	-	-8	20	104	0
1,3-Dichlorobenzene	0.92	0.99	-	-7.6	20	108	0
1,4-Dichlorobenzene	0.922	0.993	-	-7.7	20	107	0
n-Butylbenzene	1.405	1.479	-	-5.3	20	102	0
1,2-Dichlorobenzene	0.854	0.913	-	-6.9	20	107	0
1,2-Dibromo-3-chloropropan	0.049	0.047	-	4.1	20	100	0
1,2,4-Trichlorobenzene	0.52	0.538	-	-3.5	20	106	0
Naphthalene	1.073	1.042	-	2.9	20	102	0
1,2,3-Trichlorobenzene	0.453	0.456	-	-0.7	20	103	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: ELAINE	**Calibration Date**	: 12/07/23 06:31		
Lab File ID	: VE231207A01	**Init. Calib. Date(s)**	: 11/27/23	11/28/23	
Sample No	: WG1861020-2	**Init. Calib. Times**	: 22:33	02:38	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	87	0
Dichlorodifluoromethane	0.248	0.16	-	35.5*	20	54	0
Chloromethane	0.284	0.195	-	31.3*	20	55	0
Vinyl chloride	0.258	0.207	-	19.8	20	65	0
Bromomethane	0.08	0.084	-	-5	20	100	0
Chloroethane	0.132	0.132	-	0	20	80	0
Trichlorofluoromethane	0.262	0.305	-	-16.4	20	97	0
Ethyl ether	0.078	0.081	-	-3.8	20	90	0
1,1-Dichloroethene	0.167	0.194	-	-16.2	20	100	0
Carbon disulfide	0.529	0.595	-	-12.5	20	93	0
Freon-113	0.186	0.219	-	-17.7	20	94	0
Acrolein	0.027	0.019	-	29.6*	20	58	0
Methylene chloride	0.208	0.224	-	-7.7	20	91	0
Acetone	0.05	0.035	-	30*	20	61	-.01
trans-1,2-Dichloroethene	0.186	0.212	-	-14	20	99	0
Methyl acetate	0.117	0.076	-	35*	20	59	0
Methyl tert-butyl ether	0.452	0.448	-	0.9	20	84	0
tert-Butyl alcohol	0.0115	0.00862*	-	25*	20	63	0
Diisopropyl ether	0.815	0.616	-	24.4*	20	64	0
1,1-Dichloroethane	0.402	0.401	-	0.2	20	81	0
Halothane	0.146	0.166	-	-13.7	20	94	0
Acrylonitrile	0.055	0.038	-	30.9*	20	61	0
Ethyl tert-butyl ether	0.648	0.526	-	18.8	20	70	0
Vinyl acetate	0.319	0.318	-	0.3	20	91	0
cis-1,2-Dichloroethene	0.214	0.244	-	-14	20	97	0
2,2-Dichloropropane	0.271	0.33	-	-21.8*	20	102	0
Bromochloromethane	0.093	0.106	-	-14	20	92	0
Cyclohexane	0.455	0.363	-	20.2*	20	64	0
Chloroform	0.338	0.387	-	-14.5	20	96	0
Ethyl acetate	0.161	0.109	-	32.3*	20	59	0
Carbon tetrachloride	0.253	0.296	-	-17	20	96	0
Tetrahydrofuran	0.047	0.039	-	17	20	76	0
Dibromofluoromethane	0.25	0.252	-	-0.8	20	85	0
1,1,1-Trichloroethane	0.304	0.352	-	-15.8	20	98	0
2-Butanone	0.071	0.045	-	36.6*	20	56	0
1,1-Dichloropropene	0.261	0.297	-	-13.8	20	95	0
Benzene	0.789	0.902	-	-14.3	20	97	0
tert-Amyl methyl ether	0.466	0.478	-	-2.6	20	91	0
1,2-Dichloroethane-d4	0.282	0.249	-	11.7	20	72	0
1,2-Dichloroethane	0.261	0.238	-	8.8	20	80	0
Methyl cyclohexane	0.347	0.366	-	-5.5	20	89	0
Trichloroethene	0.201	0.224	-	-11.4	20	92	0
Dibromomethane	0.104	0.108	-	-3.8	20	90	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: ELAINE	**Calibration Date**	: 12/07/23 06:31		
Lab File ID	: VE231207A01	**Init. Calib. Date(s)**	: 11/27/23	11/28/23	
Sample No	: WG1861020-2	**Init. Calib. Times**	: 22:33	02:38	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.228	0.211	-	7.5	20	80	0
Bromodichloromethane	0.254	0.269*	-	-5.9	20	90	0
1,4-Dioxane	0.00118	0.00115*	-	2.5	20	85	0
cis-1,3-Dichloropropene	0.302	0.317	-	-5	20	93	0
Chlorobenzene-d5	1	1	-	0	20	87	0
Toluene-d8	1.148	1.141	-	0.6	20	87	0
Toluene	0.569	0.635	-	-11.6	20	96	0
4-Methyl-2-pentanone	0.064	0.042	-	34.4*	20	61	0
Tetrachloroethene	0.255	0.273	-	-7.1	20	93	0
trans-1,3-Dichloropropene	0.288	0.295*	-	-2.4	20	91	0
Ethyl methacrylate	0.197	0.178	-	9.6	20	79	0
1,1,2-Trichloroethane	0.145	0.146*	-	-0.7	20	87	0
Chlorodibromomethane	0.204	0.202	-	1	20	89	0
1,3-Dichloropropane	0.303	0.313	-	-3.3	20	91	0
1,2-Dibromoethane	0.166	0.161*	-	3	20	85	0
2-Hexanone	0.115	0.069	-	40*	20	56	0
Chlorobenzene	0.623	0.685	-	-10	20	94	0
Ethylbenzene	1.091	1.205	-	-10.4	20	93	0
1,1,1,2-Tetrachloroethane	0.213	0.229	-	-7.5	20	94	0
p/m Xylene	0.417	0.477	-	-14.4	20	95	0
o Xylene	0.402	0.458	-	-13.9	20	94	0
Styrene	0.638	0.729	-	-14.3	20	93	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	90	0
Bromoform	0.21	0.189	-	10	20	83	0
Isopropylbenzene	1.95	2.037	-	-4.5	20	92	0
4-Bromofluorobenzene	0.757	0.718	-	5.2	20	86	0
Bromobenzene	0.472	0.493	-	-4.4	20	93	0
n-Propylbenzene	2.317	2.413	-	-4.1	20	91	0
1,4-Dichlorobutane	0.582	0.415	-	28.7*	20	64	0
1,1,2,2-Tetrachloroethane	0.309	0.311	-	-0.6	20	91	0
4-Ethyltoluene	1.947	2.016	-	-3.5	20	91	0
2-Chlorotoluene	1.4	1.445	-	-3.2	20	91	0
1,3,5-Trimethylbenzene	1.657	1.704	-	-2.8	20	90	0
1,2,3-Trichloropropane	0.269	0.257	-	4.5	20	85	0
trans-1,4-Dichloro-2-buten	0.11	0.078	-	29.1*	20	66	0
4-Chlorotoluene	1.436	1.512	-	-5.3	20	93	0
tert-Butylbenzene	1.392	1.427	-	-2.5	20	89	0
1,2,4-Trimethylbenzene	1.656	1.678	-	-1.3	20	90	0
sec-Butylbenzene	2.015	2.036	-	-1	20	87	0
p-Isopropyltoluene	1.701	1.72	-	-1.1	20	88	0
1,3-Dichlorobenzene	0.92	0.969	-	-5.3	20	95	0
1,4-Dichlorobenzene	0.922	0.958	-	-3.9	20	93	0
p-Diethylbenzene	0.996	0.986	-	1	20	89	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Volatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116	
Instrument ID	: ELAINE	**Calibration Date**	: 12/07/23 06:31	
Lab File ID	: VE231207A01	**Init. Calib. Date(s)**	: 11/27/23	11/28/23
Sample No	: WG1861020-2	**Init. Calib. Times**	: 22:33	02:38
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
n-Butylbenzene	1.405	1.41	-	-0.4	20	88	0
1,2-Dichlorobenzene	0.854	0.873	-	-2.2	20	92	0
1,2,4,5-Tetramethylbenzene	1.474	1.403	-	4.8	20	86	0
1,2-Dibromo-3-chloropropan	0.049	0.044	-	10.2	20	85	0
1,3,5-Trichlorobenzene	0.608	0.593	-	2.5	20	88	0
Hexachlorobutadiene	0.194	0.17	-	12.4	20	78	0
1,2,4-Trichlorobenzene	0.52	0.492	-	5.4	20	87	0
Naphthalene	1.073	0.918	-	14.4	20	81	0
1,2,3-Trichlorobenzene	0.453	0.421	-	7.1	20	86	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B02.D
Acq On : 6 Dec 2023 9:45 am
Operator : ELAINE:PID
Sample : WG1860843-2
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 10:51:09 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	95	0.00
2	TP	Dichlorodifluoromethane	0.248	0.170	31.5#	63	0.00
3	TP	Chloromethane	0.284	0.184	35.2#	57	0.00
4	TC	Vinyl chloride	0.258	0.211	18.2	73	0.00
5	TP	Bromomethane	0.080	0.078	2.5	101	0.00
6	TP	Chloroethane	0.132	0.126	4.5	84	0.00
7	TP	Trichlorofluoromethane	0.262	0.304	-16.0	105	0.00
10	TC	1,1-Dichloroethene	0.167	0.201	-20.4#	113	0.00
11	TP	Carbon disulfide	0.529	0.606	-14.6	104	0.00
12	TP	Freon-113	0.186	0.218	-17.2	102	0.00
15	TP	Methylene chloride	0.208	0.230	-10.6	102	0.00
17	TP	Acetone	0.050	0.028	44.0#	53	0.00
18	TP	trans-1,2-Dichloroethene	0.186	0.219	-17.7	112	0.00
19	TP	Methyl acetate	0.117	0.081	30.8#	68	0.00
21	TP	Methyl tert-butyl ether	0.452	0.468	-3.5	96	0.00
25	TP	1,1-Dichloroethane	0.402	0.411	-2.2	91	0.00
30	TP	cis-1,2-Dichloroethene	0.214	0.257	-20.1#	112	0.00
33	TP	Bromochloromethane	0.093	0.113	-21.5#	108	0.00
34	TP	Cyclohexane	0.455	0.391	14.1	76	0.00
35	TC	Chloroform	0.338	0.390	-15.4	106	0.00
37	TP	Carbon tetrachloride	0.253	0.304	-20.2#	108	0.00
39	S	Dibromofluoromethane	0.250	0.257	-2.8	95	0.00
40	TP	1,1,1-Trichloroethane	0.304	0.353	-16.1	108	0.00
42	TP	2-Butanone	0.071	0.045	36.6#	63	0.00
45	TP	Benzene	0.789	0.910	-15.3	106	0.00
47	S	1,2-Dichloroethane-d4	0.282	0.243	13.8	77	0.00
48	T	1,2-Dichloroethane	0.261	0.237	9.2	87	0.00
51	TP	Methyl cyclohexane	0.347	0.386	-11.2	102	0.00
52	TP	Trichloroethene	0.201	0.224	-11.4	100	0.00
55	TC	1,2-Dichloropropane	0.228	0.213	6.6	88	0.00
58	TP	Bromodichloromethane	0.254	0.277#	-9.1	101	0.00
61	TP	1,4-Dioxane	0.00118	0.00134#	-13.6	109	0.00
62	TP	cis-1,3-Dichloropropene	0.302	0.324	-7.3	104	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	S	Toluene-d8	1.148	1.134	1.2	96	0.00
65	TC	Toluene	0.569	0.641	-12.7	108	0.00
66	TP	4-Methyl-2-pentanone	0.064	0.043	32.8#	70	0.00
67	TP	Tetrachloroethene	0.255	0.289	-13.3	110	0.00

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B02.D
Acq On : 6 Dec 2023 9:45 am
Operator : ELAINE:PID
Sample : WG1860843-2
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 10:51:09 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
69	TP	trans-1,3-Dichloropropene	0.288	0.292#	-1.4	100	0.00
72	TP	1,1,2-Trichloroethane	0.145	0.146#	-0.7	96	0.00
73	TP	Chlorodibromomethane	0.204	0.204	0.0	101	0.00
75	TP	1,2-Dibromoethane	0.166	0.167#	-0.6	98	0.00
77	TP	2-Hexanone	0.115	0.069	40.0#	62	0.00
78	TP	Chlorobenzene	0.623	0.699	-12.2	107	0.00
79	TC	Ethylbenzene	1.091	1.234	-13.1	106	0.00
81	TP	p/m Xylene	0.417	0.489	-17.3	108	0.00
82	TP	o Xylene	0.402	0.469	-16.7	107	0.00
83	TP	Styrene	0.638	0.755	-18.3	108	0.00
84	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
85	TP	Bromoform	0.210	0.193	8.1	94	0.00
87	TP	Isopropylbenzene	1.950	2.141	-9.8	107	0.00
88	S	4-Bromofluorobenzene	0.757	0.719	5.0	96	0.00
90	TP	n-Propylbenzene	2.317	2.526	-9.0	105	0.00
92	TP	1,1,2,2-Tetrachloroethane	0.309	0.326	-5.5	106	0.00
95	TP	1,3,5-Trimethylbenzene	1.657	1.801	-8.7	105	0.00
99	TP	tert-Butylbenzene	1.392	1.508	-8.3	104	0.00
102	TP	1,2,4-Trimethylbenzene	1.656	1.746	-5.4	104	0.00
103	TP	sec-Butylbenzene	2.015	2.158	-7.1	103	0.00
104	TP	p-Isopropyltoluene	1.701	1.837	-8.0	104	0.00
105	TP	1,3-Dichlorobenzene	0.920	0.990	-7.6	108	0.00
106	TP	1,4-Dichlorobenzene	0.922	0.993	-7.7	107	0.00
108	TP	n-Butylbenzene	1.405	1.479	-5.3	102	0.00
109	TP	1,2-Dichlorobenzene	0.854	0.913	-6.9	107	0.00
111	TP	1,2-Dibromo-3-chloropropane	0.049	0.047	4.1	100	0.00
114	TP	1,2,4-Trichlorobenzene	0.520	0.538	-3.5	106	0.00
115	TP	Naphthalene	1.073	1.042	2.9	102	0.00
116	TP	1,2,3-Trichlorobenzene	0.453	0.456	-0.7	103	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 5 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B02.D
Acq On : 6 Dec 2023 9:45 am
Operator : ELAINE:PID
Sample : WG1860843-2
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 10:51:09 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.126	96	322183	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 100.00%			
63) Chlorobenzene-d5	9.682	117	290149	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.361	152	168478	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	82945	10.313	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.13%			
47) 1,2-Dichloroethane-d4	5.842	65	78442	8.636	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 86.36%			
64) Toluene-d8	7.832	98	329034	9.878	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.78%			
88) 4-Bromofluorobenzene	11.162	95	121129	9.504	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.04%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.655	85	54848	6.866	ug/L	97
3) Chloromethane	1.850	50	59259	6.484	ug/L	99
4) Vinyl chloride	1.930	62	67829	8.174	ug/L	99
5) Bromomethane	2.250	94	24973	9.644	ug/L	97
6) Chloroethane	2.373	64	40703	9.574	ug/L	97
7) Trichlorofluoromethane	2.515	101	97970	11.627	ug/L	100
10) 1,1-Dichloroethene	3.018	96	64894	12.062	ug/L	77
11) Carbon disulfide	3.049	76	195104	11.439	ug/L	99
12) Freon-113	3.057	101	70082	11.711	ug/L	92
15) Methylene chloride	3.589	84	73972	11.013	ug/L	86
17) Acetone	3.625	43	8991	5.607	ug/L #	78
18) trans-1,2-Dichloroethene	3.739	96	70524	11.760	ug/L	86
19) Methyl acetate	3.747	43	26121	6.902	ug/L	95
21) Methyl tert-butyl ether	3.842	73	150824	10.354	ug/L	92
25) 1,1-Dichloroethane	4.337	63	132519	10.239	ug/L	98
30) cis-1,2-Dichloroethene	4.860	96	82766	12.028	ug/L #	82
33) Bromochloromethane	5.055	128	36531	12.212	ug/L #	84
34) Cyclohexane	5.060	56	126098	8.607	ug/L	89
35) Chloroform	5.127	83	125721	11.528	ug/L	94
37) Carbon tetrachloride	5.266	117	97980	11.997	ug/L	98
40) 1,1,1-Trichloroethane	5.333	97	113768	11.623	ug/L	95

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B02.D
Acq On : 6 Dec 2023 9:45 am
Operator : ELAINE:PID
Sample : WG1860843-2
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 10:51:09 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 2-Butanone	5.425	43	14636M1	6.394	ug/L		
45) Benzene	5.706	78	293271	11.530	ug/L		94
48) 1,2-Dichloroethane	5.909	62	76370	9.067	ug/L		96
51) Methyl cyclohexane	6.299	83	124435	11.140	ug/L		87
52) Trichloroethene	6.304	95	72078	11.138	ug/L		99
55) 1,2-Dichloropropane	6.855	63	68724	9.345	ug/L		95
58) Bromodichloromethane	6.927	83	89346	10.922	ug/L		99
61) 1,4-Dioxane	7.136	88	21652	570.015	ug/L	#	86
62) cis-1,3-Dichloropropene	7.620	75	104518	10.759	ug/L	#	82
65) Toluene	7.890	92	185885	11.267	ug/L		99
66) 4-Methyl-2-pentanone	8.324	58	12616	6.745	ug/L		86
67) Tetrachloroethene	8.338	166	83994	11.345	ug/L		93
69) trans-1,3-Dichloropropene	8.371	75	84834	10.159	ug/L		85
72) 1,1,2-Trichloroethane	8.560	83	42256	10.076	ug/L		99
73) Chlorodibromomethane	8.772	129	59106	9.988	ug/L		97
75) 1,2-Dibromoethane	9.050	107	48355	10.027	ug/L		100
77) 2-Hexanone	9.334	43	19998	6.014	ug/L		92
78) Chlorobenzene	9.704	112	202943	11.235	ug/L		91
79) Ethylbenzene	9.743	91	357929	11.306	ug/L		97
81) p/m Xylene	9.932	106	283701	23.442	ug/L		96
82) o Xylene	10.466	106	271962	23.288	ug/L		96
83) Styrene	10.530	104	438295	23.686	ug/L		91
85) Bromoform	10.553	173	32591	9.196	ug/L		100
87) Isopropylbenzene	10.842	105	360658	10.977	ug/L		99
90) n-Propylbenzene	11.318	91	425531	10.899	ug/L		100
92) 1,1,2,2-Tetrachloroethane	11.401	83	54841	10.520	ug/L		99
95) 1,3,5-Trimethylbenzene	11.540	105	303484	10.869	ug/L		100
99) tert-Butylbenzene	11.880	119	254084	10.834	ug/L		95
102) 1,2,4-Trimethylbenzene	11.955	105	294215	10.543	ug/L		98
103) sec-Butylbenzene	12.069	105	363655	10.712	ug/L		97
104) p-Isopropyltoluene	12.222	119	309542	10.804	ug/L		97
105) 1,3-Dichlorobenzene	12.286	146	166739	10.752	ug/L		98
106) 1,4-Dichlorobenzene	12.378	146	167238	10.764	ug/L		98
108) n-Butylbenzene	12.648	91	249139	10.528	ug/L		99
109) 1,2-Dichlorobenzene	12.798	146	153833	10.695	ug/L		99
111) 1,2-Dibromo-3-chloropr...	13.571	155	7892	9.525	ug/L		96
114) 1,2,4-Trichlorobenzene	14.200	180	90691	10.355	ug/L		99
115) Naphthalene	14.492	128	175482	9.711	ug/L		100
116) 1,2,3-Trichlorobenzene	14.659	180	76821	10.065	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B02.D
Acq On : 6 Dec 2023 9:45 am
Operator : ELAINE:PID
Sample : WG1860843-2
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 10:51:09 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

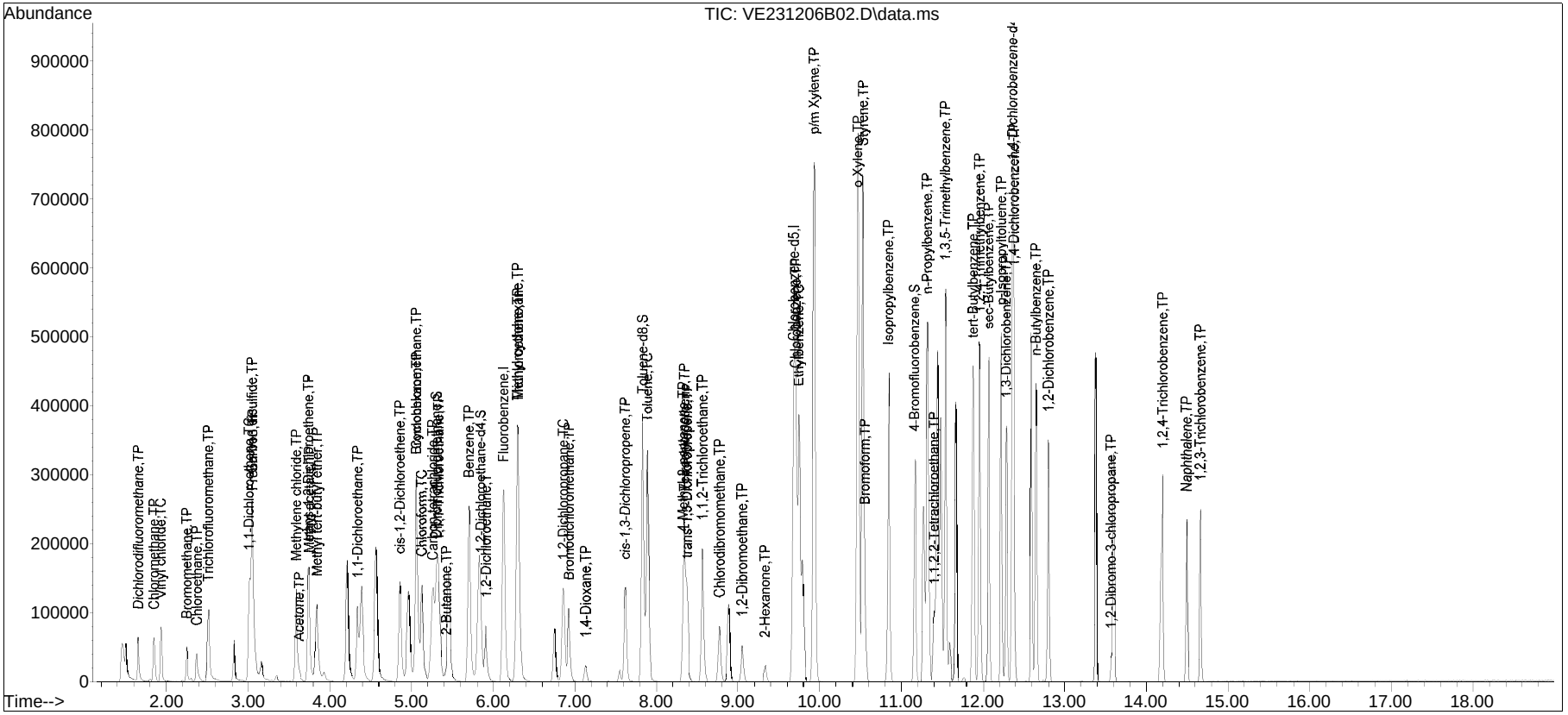
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B02.D
Acq On : 6 Dec 2023 9:45 am
Operator : ELAINE:PID
Sample : WG1860843-2
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 10:51:09 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

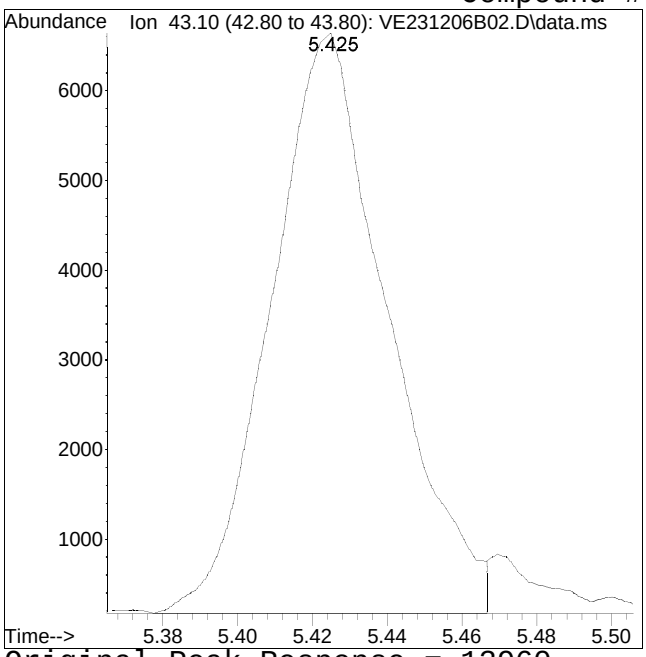
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

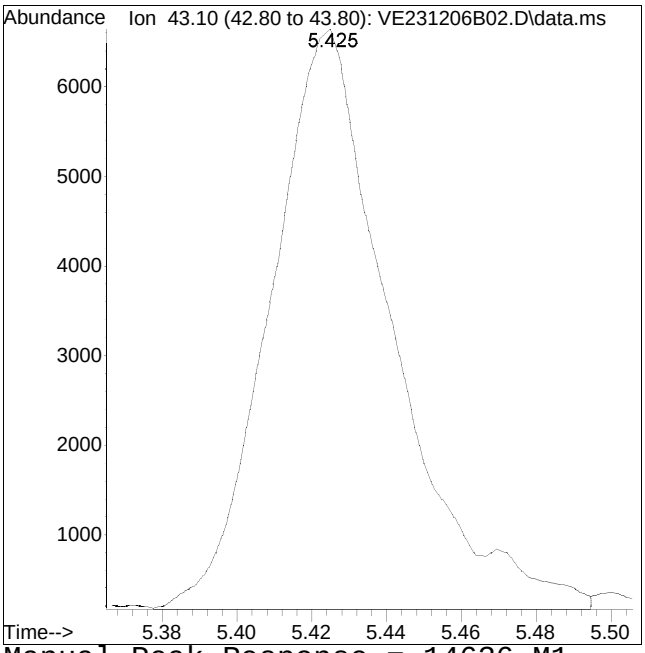


Manual Integration Report

Data Path	: K:\Elaine\2023\231206B\	QMethod	: Elaine_231127N_8260.m
Data File	: VE231206B02.D	Operator	: ELAINE:PID
Date Inj'd	: 12/6/2023 9:45 am	Instrument	: Elaine
Sample	: WG1860843-2	Quant Date	: 12/6/2023 10:50 am

Compound #42: 2-Butanone





Original Peak Response = 13960 Manual Peak Response = 14636 M1

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

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A01.D
Acq On : 7 Dec 2023 6:31 am
Operator : ELAINE:MJV
Sample : WG1861020-2
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 06:57:25 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	87	0.00
2	TP	Dichlorodifluoromethane	0.248	0.160	35.5#	54	0.00
3	TP	Chloromethane	0.284	0.195	31.3#	55	0.00
4	TC	Vinyl chloride	0.258	0.207	19.8	65	0.00
5	TP	Bromomethane	0.080	0.084	-5.0	100	0.00
6	TP	Chloroethane	0.132	0.132	0.0	80	0.00
7	TP	Trichlorofluoromethane	0.262	0.305	-16.4	97	0.00
8	TP	Ethyl ether	0.078	0.081	-3.8	90	0.00
10	TC	1,1-Dichloroethene	0.167	0.194	-16.2	100	0.00
11	TP	Carbon disulfide	0.529	0.595	-12.5	93	0.00
12	TP	Freon-113	0.186	0.219	-17.7	94	0.00
14	TP	Acrolein	0.027	0.019	29.6#	58	0.00
15	TP	Methylene chloride	0.208	0.224	-7.7	91	0.00
17	TP	Acetone	0.050	0.035	30.0#	61	-0.01
18	TP	trans-1,2-Dichloroethene	0.186	0.212	-14.0	99	0.00
19	TP	Methyl acetate	0.117	0.076	35.0#	59	0.00
21	TP	Methyl tert-butyl ether	0.452	0.448	0.9	84	0.00
22	TP	tert-Butyl alcohol	0.01150	0.00862#	25.0#	63	0.00
24	TP	Diisopropyl ether	0.815	0.616	24.4#	64	0.00
25	TP	1,1-Dichloroethane	0.402	0.401	0.2	81	0.00
26	TP	Halothane	0.146	0.166	-13.7	94	0.00
27	TP	Acrylonitrile	0.055	0.038	30.9#	61	0.00
28	TP	Ethyl tert-butyl ether	0.648	0.526	18.8	70	0.00
29	TP	Vinyl acetate	0.319	0.318	0.3	91	0.00
30	TP	cis-1,2-Dichloroethene	0.214	0.244	-14.0	97	0.00
31	TP	2,2-Dichloropropane	0.271	0.330	-21.8#	102	0.00
33	TP	Bromochloromethane	0.093	0.106	-14.0	92	0.00
34	TP	Cyclohexane	0.455	0.363	20.2#	64	0.00
35	TC	Chloroform	0.338	0.387	-14.5	96	0.00
36	TP	Ethyl acetate	0.161	0.109	32.3#	59	0.00
37	TP	Carbon tetrachloride	0.253	0.296	-17.0	96	0.00
38	TP	Tetrahydrofuran	0.047	0.039	17.0	76	0.00
39	S	Dibromofluoromethane	0.250	0.252	-0.8	85	0.00
40	TP	1,1,1-Trichloroethane	0.304	0.352	-15.8	98	0.00
42	TP	2-Butanone	0.071	0.045	36.6#	56	0.00
43	TP	1,1-Dichloropropene	0.261	0.297	-13.8	95	0.00
45	TP	Benzene	0.789	0.902	-14.3	97	0.00
46	TP	tert-Amyl methyl ether	0.466	0.478	-2.6	91	0.00
47	S	1,2-Dichloroethane-d4	0.282	0.249	11.7	72	0.00

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A01.D
Acq On : 7 Dec 2023 6:31 am
Operator : ELAINE:MJV
Sample : WG1861020-2
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 06:57:25 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	T	1,2-Dichloroethane	0.261	0.238	8.8	80	0.00
51	TP	Methyl cyclohexane	0.347	0.366	-5.5	89	0.00
52	TP	Trichloroethene	0.201	0.224	-11.4	92	0.00
54	TP	Dibromomethane	0.104	0.108	-3.8	90	0.00
55	TC	1,2-Dichloropropane	0.228	0.211	7.5	80	0.00
58	TP	Bromodichloromethane	0.254	0.269#	-5.9	90	0.00
61	TP	1,4-Dioxane	0.00118	0.00115#	2.5	85	0.00
62	TP	cis-1,3-Dichloropropene	0.302	0.317	-5.0	93	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
64	S	Toluene-d8	1.148	1.141	0.6	87	0.00
65	TC	Toluene	0.569	0.635	-11.6	96	0.00
66	TP	4-Methyl-2-pentanone	0.064	0.042	34.4#	61	0.00
67	TP	Tetrachloroethene	0.255	0.273	-7.1	93	0.00
69	TP	trans-1,3-Dichloropropene	0.288	0.295#	-2.4	91	0.00
71	TP	Ethyl methacrylate	0.197	0.178	9.6	79	0.00
72	TP	1,1,2-Trichloroethane	0.145	0.146#	-0.7	87	0.00
73	TP	Chlorodibromomethane	0.204	0.202	1.0	89	0.00
74	TP	1,3-Dichloropropane	0.303	0.313	-3.3	91	0.00
75	TP	1,2-Dibromoethane	0.166	0.161#	3.0	85	0.00
77	TP	2-Hexanone	0.115	0.069	40.0#	56	0.00
78	TP	Chlorobenzene	0.623	0.685	-10.0	94	0.00
79	TC	Ethylbenzene	1.091	1.205	-10.4	93	0.00
80	TP	1,1,1,2-Tetrachloroethane	0.213	0.229	-7.5	94	0.00
81	TP	p/m Xylene	0.417	0.477	-14.4	95	0.00
82	TP	o Xylene	0.402	0.458	-13.9	94	0.00
83	TP	Styrene	0.638	0.729	-14.3	93	0.00
84	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
85	TP	Bromoform	0.210	0.189	10.0	83	0.00
87	TP	Isopropylbenzene	1.950	2.037	-4.5	92	0.00
88	S	4-Bromofluorobenzene	0.757	0.718	5.2	86	0.00
89	TP	Bromobenzene	0.472	0.493	-4.4	93	0.00
90	TP	n-Propylbenzene	2.317	2.413	-4.1	91	0.00
91	TP	1,4-Dichlorobutane	0.582	0.415	28.7#	64	0.00
92	TP	1,1,2,2-Tetrachloroethane	0.309	0.311	-0.6	91	0.00
93	TP	4-Ethyltoluene	1.947	2.016	-3.5	91	0.00
94	TP	2-Chlorotoluene	1.400	1.445	-3.2	91	0.00
95	TP	1,3,5-Trimethylbenzene	1.657	1.704	-2.8	90	0.00

Evaluate Continuing Calibration Report

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A01.D
Acq On : 7 Dec 2023 6:31 am
Operator : ELAINE:MJV
Sample : WG1861020-2
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 06:57:25 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 TP	1,2,3-Trichloropropane	0.269	0.257	4.5	85	0.00
97 TP	trans-1,4-Dichloro-2-butene	0.110	0.078	29.1#	66	0.00
98 TP	4-Chlorotoluene	1.436	1.512	-5.3	93	0.00
99 TP	tert-Butylbenzene	1.392	1.427	-2.5	89	0.00
102 TP	1,2,4-Trimethylbenzene	1.656	1.678	-1.3	90	0.00
103 TP	sec-Butylbenzene	2.015	2.036	-1.0	87	0.00
104 TP	p-Isopropyltoluene	1.701	1.720	-1.1	88	0.00
105 TP	1,3-Dichlorobenzene	0.920	0.969	-5.3	95	0.00
106 TP	1,4-Dichlorobenzene	0.922	0.958	-3.9	93	0.00
107 TP	p-Diethylbenzene	0.996	0.986	1.0	89	0.00
108 TP	n-Butylbenzene	1.405	1.410	-0.4	88	0.00
109 TP	1,2-Dichlorobenzene	0.854	0.873	-2.2	92	0.00
110 TP	1,2,4,5-Tetramethylbenzene	1.474	1.403	4.8	86	0.00
111 TP	1,2-Dibromo-3-chloropropane	0.049	0.044	10.2	85	0.00
112 TP	1,3,5-Trichlorobenzene	0.608	0.593	2.5	88	0.00
113 TP	Hexachlorobutadiene	0.194	0.170	12.4	78	0.00
114 TP	1,2,4-Trichlorobenzene	0.520	0.492	5.4	87	0.00
115 TP	Naphthalene	1.073	0.918	14.4	81	0.00
116 TP	1,2,3-Trichlorobenzene	0.453	0.421	7.1	86	0.00

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A01.D
Acq On : 7 Dec 2023 6:31 am
Operator : ELAINE:MJV
Sample : WG1861020-2
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 06:57:25 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231207A\VE231207A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.123	96	294846	10.000	ug/L	0.00
Standard Area 1 = 294846			Recovery = 100.00%			
63) Chlorobenzene-d5	9.682	117	260022	10.000	ug/L	0.00
Standard Area 1 = 260022			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.361	152	151851	10.000	ug/L	0.00
Standard Area 1 = 151851			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.302	113	74420	10.111	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.11%			
47) 1,2-Dichloroethane-d4	5.837	65	73452	8.836	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.36%			
64) Toluene-d8	7.829	98	296559	9.935	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.35%			
88) 4-Bromofluorobenzene	11.159	95	108968	9.486	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.658	85	47110	6.444	ug/L	97
3) Chloromethane	1.852	50	57442	6.868	ug/L	99
4) Vinyl chloride	1.933	62	60919	8.022	ug/L	100
5) Bromomethane	2.250	94	24826	10.476	ug/L	98
6) Chloroethane	2.373	64	38820	9.978	ug/L	97
7) Trichlorofluoromethane	2.517	101	90039	11.676	ug/L	98
8) Ethyl ether	2.821	74	23910	10.429	ug/L	90
10) 1,1-Dichloroethene	3.015	96	57305	11.639	ug/L	78
11) Carbon disulfide	3.046	76	175448	11.240	ug/L	98
12) Freon-113	3.054	101	64635	11.803	ug/L	99
14) Acrolein	3.338	56	5673	7.029	ug/L	86
15) Methylene chloride	3.586	84	66140	10.760	ug/L	89
17) Acetone	3.619	43	10321	7.033	ug/L	94
18) trans-1,2-Dichloroethene	3.739	96	62512	11.390	ug/L	87
19) Methyl acetate	3.744	43	22547	6.510	ug/L #	92
21) Methyl tert-butyl ether	3.839	73	131945	9.897	ug/L	94
22) tert-Butyl alcohol	3.925	59	12706	37.472	ug/L #	93
24) Diisopropyl ether	4.203	45	181480	7.556	ug/L	95
25) 1,1-Dichloroethane	4.331	63	118295	9.987	ug/L	97
26) Halothane	4.382	117	48881	11.367	ug/L	97
27) Acrylonitrile	4.376	53	11348	6.993	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A01.D
Acq On : 7 Dec 2023 6:31 am
Operator : ELAINE:MJV
Sample : WG1861020-2
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 06:57:25 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231207A\VE231207A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
28) Ethyl tert-butyl ether	4.557	59	155214	8.126	ug/L		90
29) Vinyl acetate	4.568	43	93758	9.963	ug/L	#	93
30) cis-1,2-Dichloroethene	4.857	96	71999	11.433	ug/L		83
31) 2,2-Dichloropropane	4.960	77	97377	12.168	ug/L		92
33) Bromochloromethane	5.052	128	31217	11.403	ug/L		87
34) Cyclohexane	5.058	56	106961	7.978	ug/L		91
35) Chloroform	5.124	83	114003	11.423	ug/L		94
36) Ethyl acetate	5.233	43	32014	6.757	ug/L	#	96
37) Carbon tetrachloride	5.261	117	87201	11.667	ug/L		96
38) Tetrahydrofuran	5.280	42	11502	8.332	ug/L		97
40) 1,1,1-Trichloroethane	5.330	97	103647	11.571	ug/L		93
42) 2-Butanone	5.422	43	13167	6.286	ug/L	#	83
43) 1,1-Dichloropropene	5.450	75	87608	11.391	ug/L		97
45) Benzene	5.700	78	265930	11.424	ug/L		94
46) tert-Amyl methyl ether	5.812	73	141056	10.268	ug/L		97
48) 1,2-Dichloroethane	5.906	62	70198	9.107	ug/L		97
51) Methyl cyclohexane	6.293	83	107987	10.564	ug/L		89
52) Trichloroethene	6.301	95	66190	11.176	ug/L		98
54) Dibromomethane	6.746	93	31875	10.357	ug/L		93
55) 1,2-Dichloropropane	6.852	63	62176	9.239	ug/L		97
58) Bromodichloromethane	6.922	83	79337	10.597	ug/L		98
61) 1,4-Dioxane	7.130	88	16993	488.839	ug/L	#	88
62) cis-1,3-Dichloropropene	7.614	75	93522	10.520	ug/L	#	83
65) Toluene	7.887	92	165113	11.167	ug/L		99
66) 4-Methyl-2-pentanone	8.321	58	10904	6.506	ug/L		83
67) Tetrachloroethene	8.335	166	71025	10.705	ug/L		94
69) trans-1,3-Dichloropropene	8.368	75	76600	10.236	ug/L	#	82
71) Ethyl methacrylate	8.558	69	46256	9.010	ug/L		81
72) 1,1,2-Trichloroethane	8.558	83	38069	10.129	ug/L		99
73) Chlorodibromomethane	8.769	129	52491	9.898	ug/L		98
74) 1,3-Dichloropropane	8.883	76	81277	10.319	ug/L		100
75) 1,2-Dibromoethane	9.047	107	41741	9.658	ug/L		99
77) 2-Hexanone	9.331	43	17929	6.017	ug/L		92
78) Chlorobenzene	9.701	112	177987	10.995	ug/L		90
79) Ethylbenzene	9.740	91	313310	11.043	ug/L		99
80) 1,1,1,2-Tetrachloroethane	9.787	131	59652	10.765	ug/L		98
81) p/m Xylene	9.929	106	248261	22.891	ug/L		96
82) o Xylene	10.464	106	238178	22.758	ug/L		94
83) Styrene	10.530	104	378989	22.854	ug/L		92
85) Bromoform	10.553	173	28745	8.998	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A01.D
Acq On : 7 Dec 2023 6:31 am
Operator : ELAINE:MJV
Sample : WG1861020-2
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 06:57:25 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231207A\VE231207A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Isopropylbenzene	10.842	105	309291	10.444	ug/L	100
89) Bromobenzene	11.273	156	74845	10.450	ug/L	99
90) n-Propylbenzene	11.318	91	366484	10.415	ug/L	100
91) 1,4-Dichlorobutane	11.332	55	62980	7.121	ug/L	92
92) 1,1,2,2-Tetrachloroethane	11.401	83	47267	10.059	ug/L	99
93) 4-Ethyltoluene	11.443	105	306198	10.355	ug/L	100
94) 2-Chlorotoluene	11.482	91	219368	10.319	ug/L	91
95) 1,3,5-Trimethylbenzene	11.537	105	258713	10.280	ug/L	99
96) 1,2,3-Trichloropropane	11.540	75	39059	9.557	ug/L	98
97) trans-1,4-Dichloro-2-b...	11.593	53	11847	7.092	ug/L	98
98) 4-Chlorotoluene	11.665	91	229555	10.524	ug/L	99
99) tert-Butylbenzene	11.880	119	216638	10.249	ug/L	95
102) 1,2,4-Trimethylbenzene	11.955	105	254846	10.132	ug/L	98
103) sec-Butylbenzene	12.066	105	309228	10.106	ug/L	98
104) p-Isopropyltoluene	12.219	119	261159	10.113	ug/L	98
105) 1,3-Dichlorobenzene	12.286	146	147181	10.530	ug/L	99
106) 1,4-Dichlorobenzene	12.378	146	145545	10.394	ug/L	98
107) p-Diethylbenzene	12.592	119	149683	9.892	ug/L	99
108) n-Butylbenzene	12.648	91	214128	10.039	ug/L	99
109) 1,2-Dichlorobenzene	12.798	146	132546	10.224	ug/L	98
110) 1,2,4,5-Tetramethylben...	13.379	119	213027	9.519	ug/L	98
111) 1,2-Dibromo-3-chloropr...	13.574	155	6667	8.928	ug/L	95
112) 1,3,5-Trichlorobenzene	13.605	180	90020	9.758	ug/L	97
113) Hexachlorobutadiene	14.178	225	25890	8.768	ug/L	97
114) 1,2,4-Trichlorobenzene	14.200	180	74646	9.456	ug/L	98
115) Naphthalene	14.495	128	139354	8.556	ug/L	100
116) 1,2,3-Trichlorobenzene	14.659	180	63882	9.287	ug/L	99

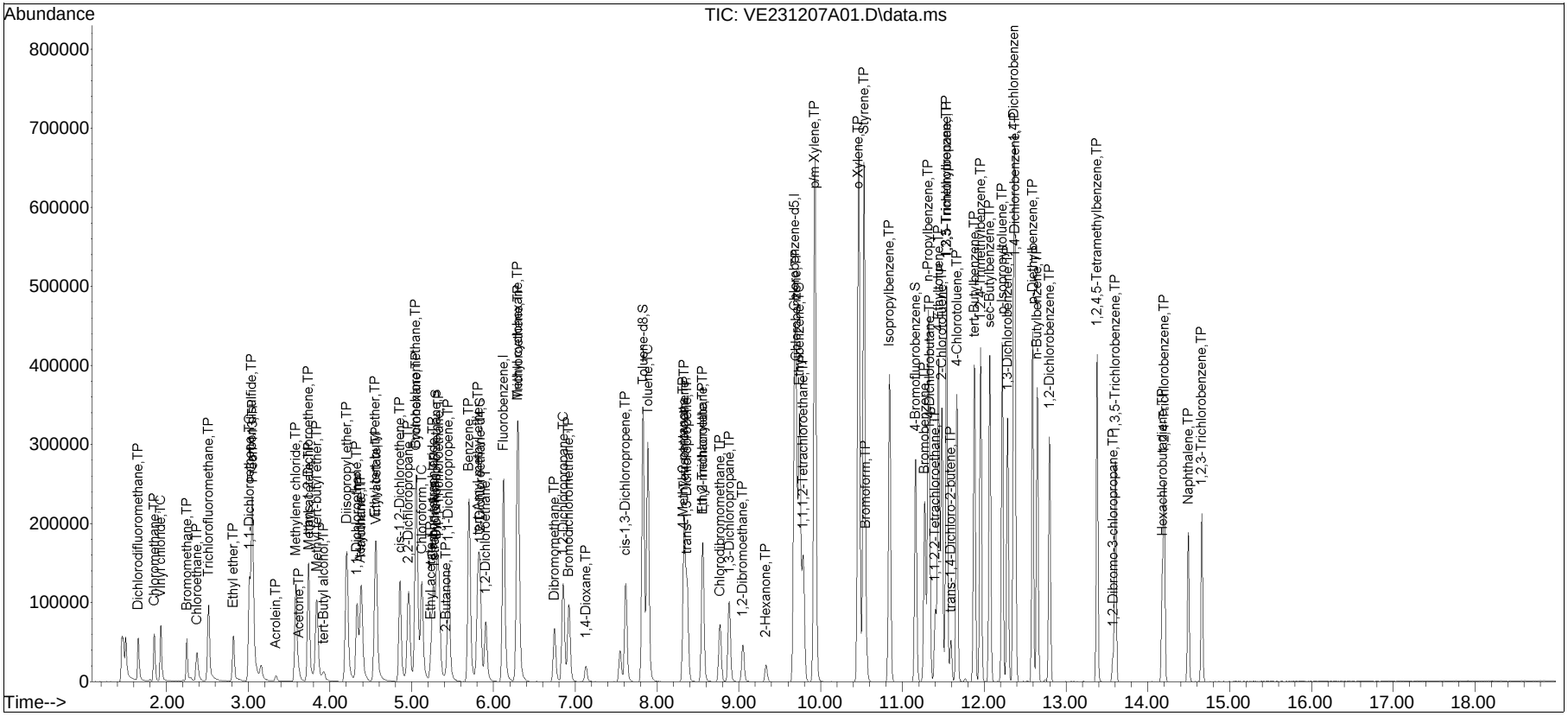
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A01.D
Acq On : 7 Dec 2023 6:31 am
Operator : ELAINE:MJV
Sample : WG1861020-2
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 06:57:25 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO•



Manual Integration Report

Data Path	: K:\Elaine\2023\231207A\	QMethod	: Elaine_231127N_8260.m
Data File	: VE231207A01.D	Operator	: ELAINE:MJV
Date Inj'd	: 12/7/2023 6:31 am	Instrument	: Elaine
Sample	: WG1861020-2	Quant Date	: 12/7/2023 6:57 am

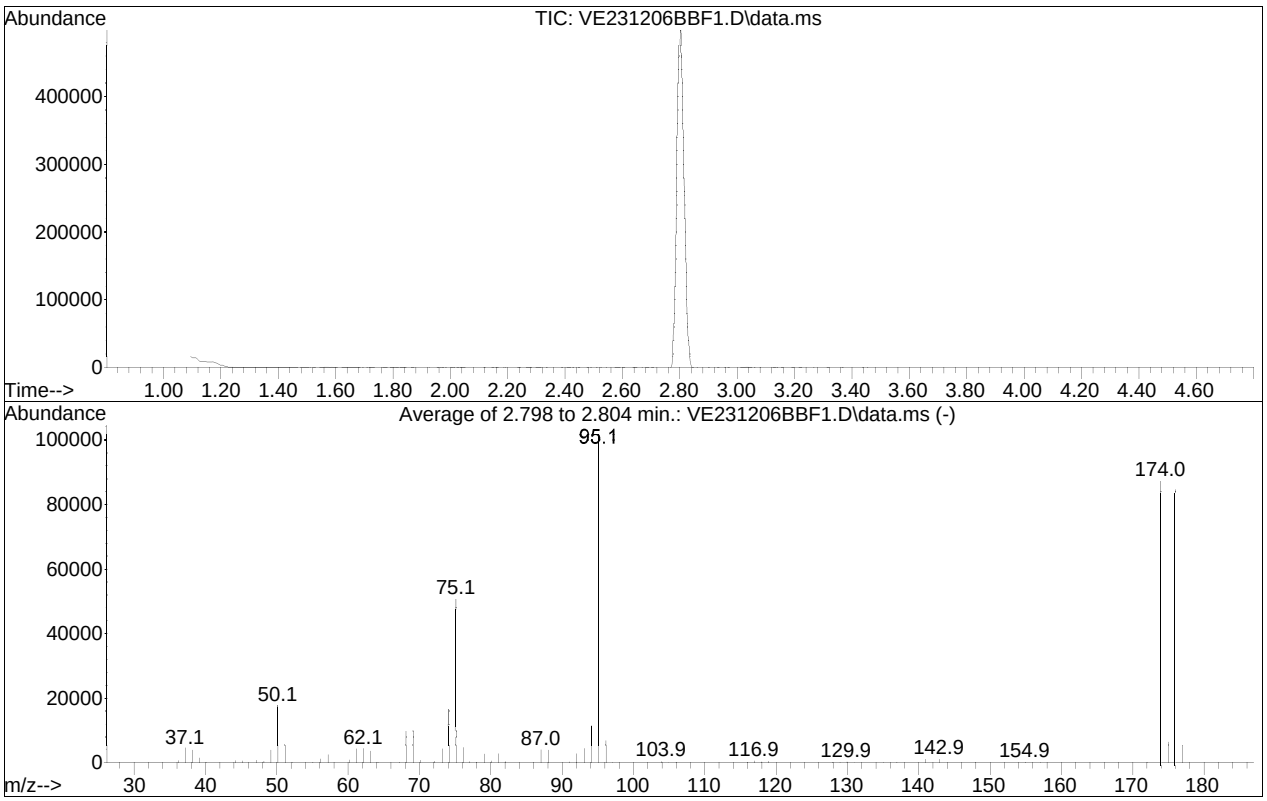
There are no manual integrations or false positives in this file.

BFB

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206BBF1.D
Acq On : 6 Dec 2023 9:07 am
Operator : ELAINE:PID
Sample : WG1860843-1
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Nov 28 12:13:41 2023



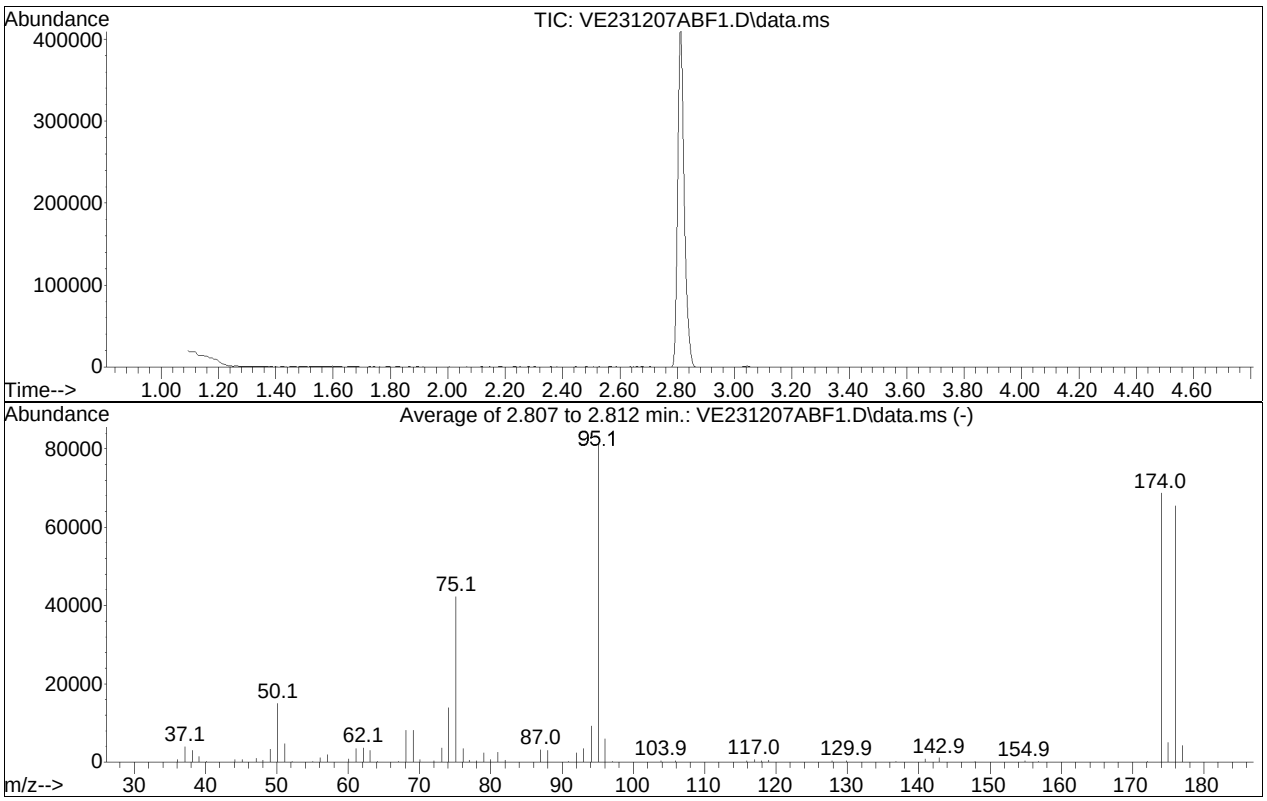
Spectrum Information: Average of 2.798 to 2.804 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	17768	PASS
75	95	30	60	50.9	50688	PASS
95	95	100	100	100.0	99557	PASS
96	95	5	9	7.0	6994	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	87.6	87229	PASS
175	174	5	9	7.5	6576	PASS
176	174	95	101	97.2	84765	PASS
177	176	5	9	6.3	5359	PASS

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207ABF1.D
Acq On : 7 Dec 2023 6:13 am
Operator : ELAINE:MJV
Sample : WG1861020-1
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Nov 28 12:13:41 2023



Spectrum Information: Average of 2.807 to 2.812 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	14970	PASS
75	95	30	60	51.8	42277	PASS
95	95	100	100	100.0	81587	PASS
96	95	5	9	7.3	5936	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.3	68776	PASS
175	174	5	9	7.4	5108	PASS
176	174	95	101	95.1	65403	PASS
177	176	5	9	6.5	4246	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B05.D
Acq On : 6 Dec 2023 10:58 am
Operator : ELAINE:PID
Sample : WG1860843-5,31,10,10
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 11:18:24 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	312100	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 96.87%			
63) Chlorobenzene-d5	9.684	117	286588	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 98.77%			
84) 1,4-Dichlorobenzene-d4	12.364	152	166011	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 98.54%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	82709	10.616	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.16%			
47) 1,2-Dichloroethane-d4	5.842	65	79648	9.052	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.52%			
64) Toluene-d8	7.831	98	316255	9.613	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.13%			
88) 4-Bromofluorobenzene	11.162	95	121502	9.675	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.75%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.852	50	254	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.253	94	275	0.110	ug/L	91
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.052	76	1547	0.094	ug/L #	72
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.591	84	420	N.D.		
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.636	43	54	N.D.		
21) Methyl tert-butyl ether	0.000		0	N.D.		
25) 1,1-Dichloroethane	0.000		0	N.D.		
30) cis-1,2-Dichloroethene	0.000		0	N.D.		
33) Bromochloromethane	0.000		0	N.D.		
34) Cyclohexane	0.000		0	N.D.		
35) Chloroform	0.000		0	N.D.		
37) Carbon tetrachloride	0.000		0	N.D.		

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B05.D
Acq On : 6 Dec 2023 10:58 am
Operator : ELAINE:PID
Sample : WG1860843-5,31,10,10
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 11:18:24 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0	N.D.		
42) 2-Butanone	0.000		0	N.D.		
45) Benzene	5.703	78	52	N.D.		
48) 1,2-Dichloroethane	0.000		0	N.D.		
51) Methyl cyclohexane	0.000		0	N.D.		
52) Trichloroethene	0.000		0	N.D.		
55) 1,2-Dichloropropane	0.000		0	N.D.		
58) Bromodichloromethane	0.000		0	N.D.		
61) 1,4-Dioxane	0.000		0	N.D.		
62) cis-1,3-Dichloropropene	0.000		0	N.D.		
65) Toluene	7.895	92	272	N.D.		
66) 4-Methyl-2-pentanone	0.000		0	N.D.		
67) Tetrachloroethene	0.000		0	N.D.		
69) trans-1,3-Dichloropropene	0.000		0	N.D.		
72) 1,1,2-Trichloroethane	0.000		0	N.D.		
73) Chlorodibromomethane	0.000		0	N.D.		
75) 1,2-Dibromoethane	0.000		0	N.D.		
77) 2-Hexanone	0.000		0	N.D.		
78) Chlorobenzene	9.709	112	196	N.D.		
79) Ethylbenzene	9.746	91	895	N.D.		
81) p/m Xylene	9.929	106	1027	0.086	ug/L	88
82) o Xylene	10.466	106	359	N.D.		
83) Styrene	10.536	104	688	N.D.		
85) Bromoform	0.000		0	N.D.		
87) Isopropylbenzene	10.847	105	330	N.D.		
92) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105) 1,3-Dichlorobenzene	12.283	146	913	N.D.		
106) 1,4-Dichlorobenzene	12.378	146	1096	0.072	ug/L #	1
109) 1,2-Dichlorobenzene	12.798	146	837	N.D.		
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114) 1,2,4-Trichlorobenzene	14.200	180	987	0.114	ug/L #	65
116) 1,2,3-Trichlorobenzene	14.659	180	649	0.086	ug/L #	68

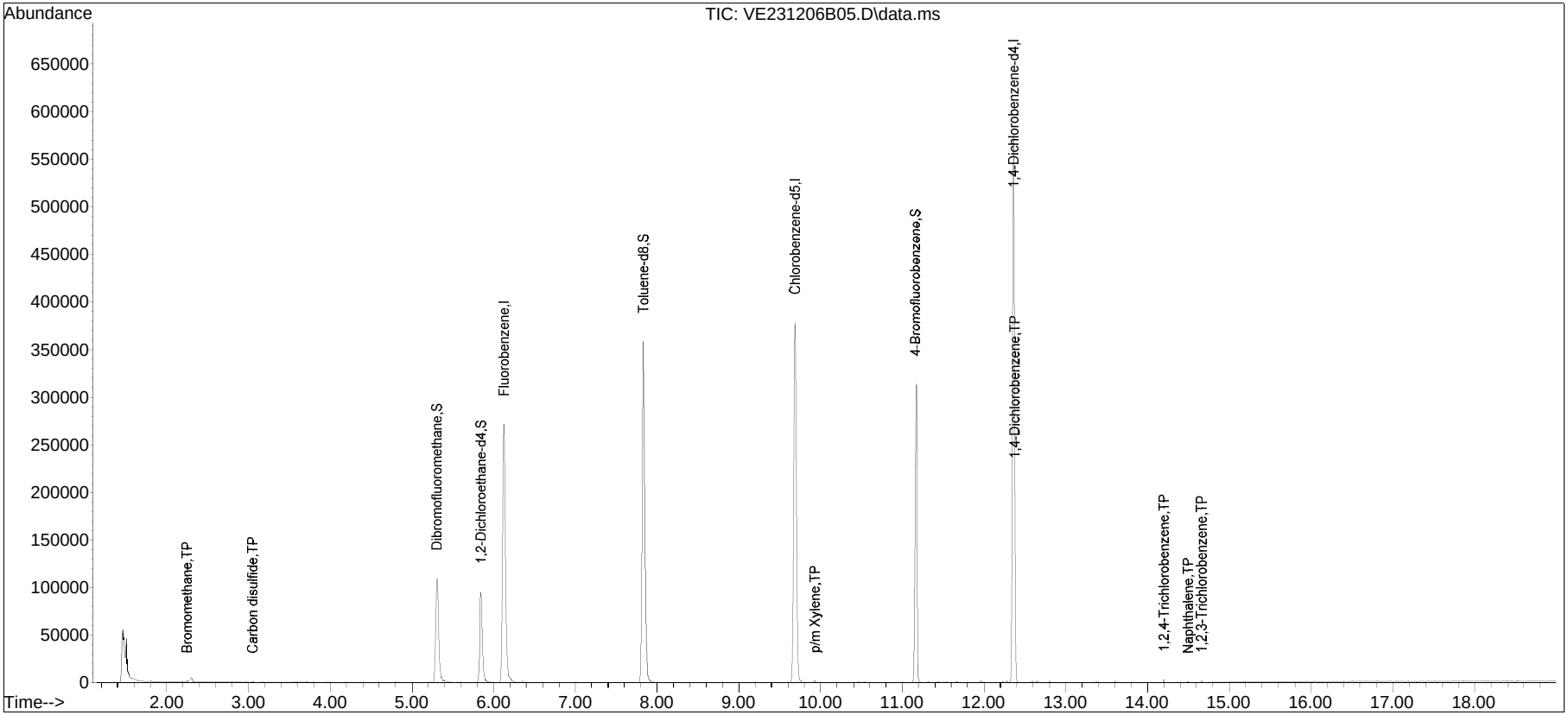
(#) = qualifier out of range (m) = manual integration (+) = signals summed

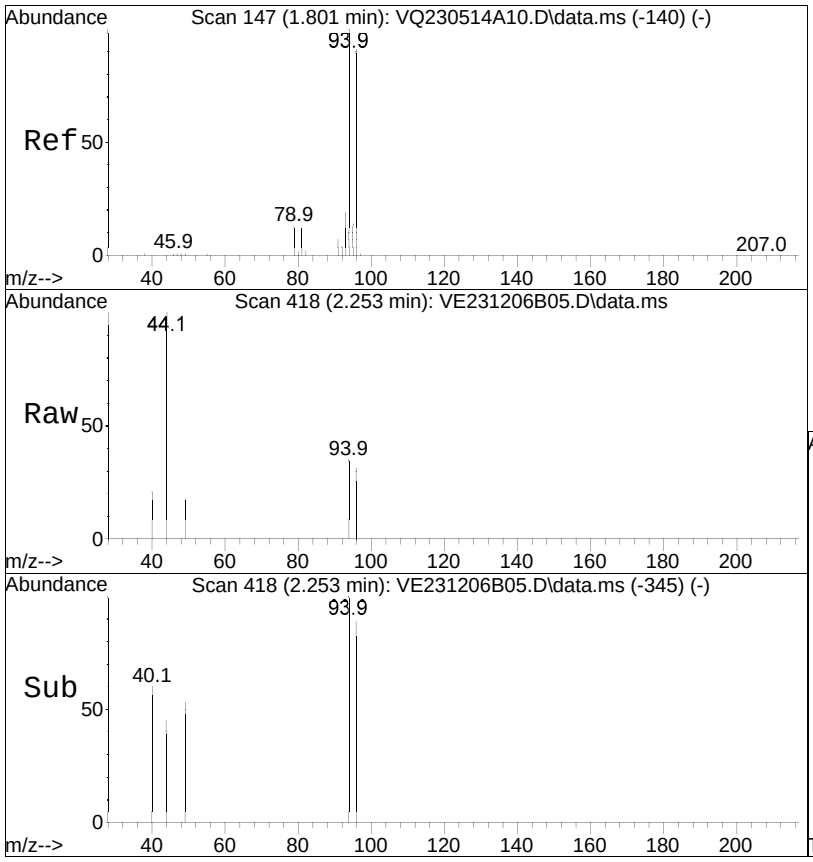
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B05.D
Acq On : 6 Dec 2023 10:58 am
Operator : ELAINE:PID
Sample : WG1860843-5,31,10,10
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 11:18:24 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

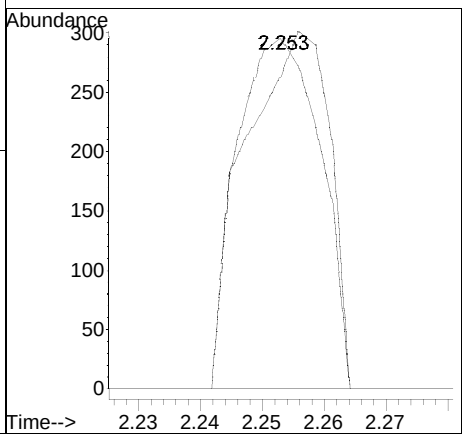


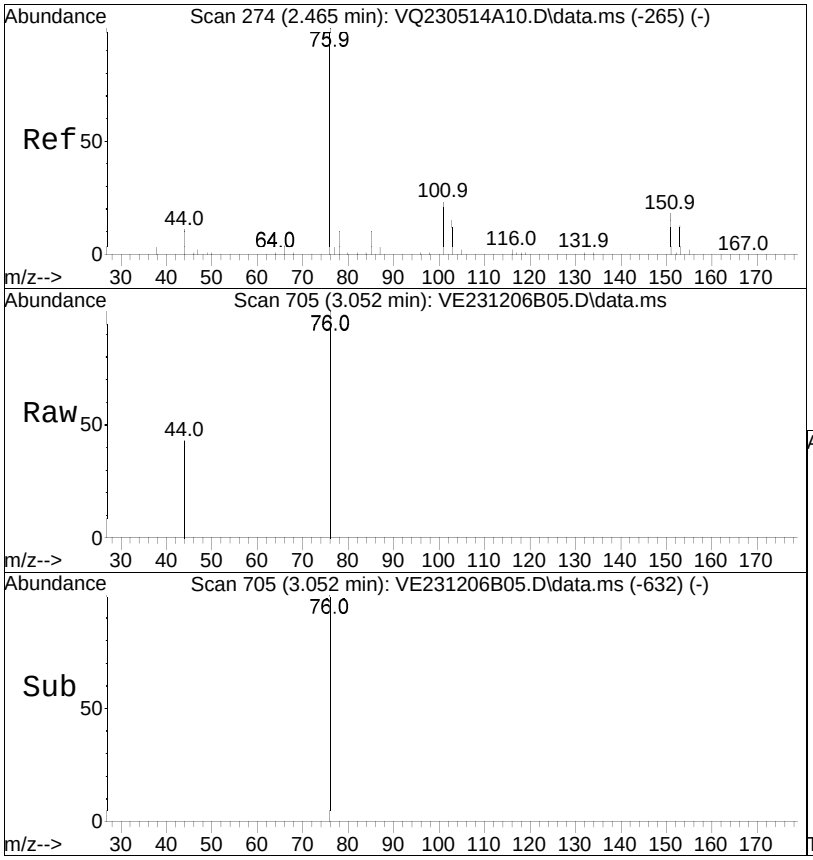


#5
Bromomethane
Concen: 0.11 ug/L
RT: 2.253 min Scan# 418
Delta R.T. 0.003 min
Lab File: VE231206B05.D
Acq: 6 Dec 2023 10:58 am

Tgt Ion: 94 Resp: 275

Ion	Ratio	Lower	Upper
94	100		
96	102.5	73.9	113.9

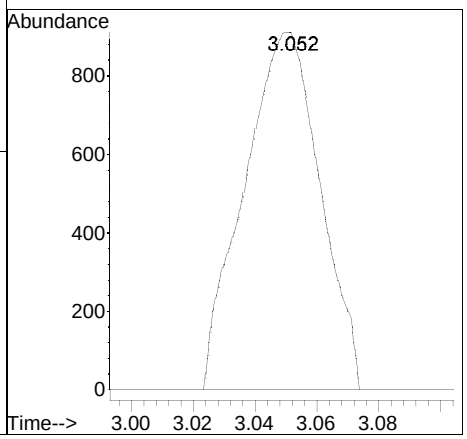


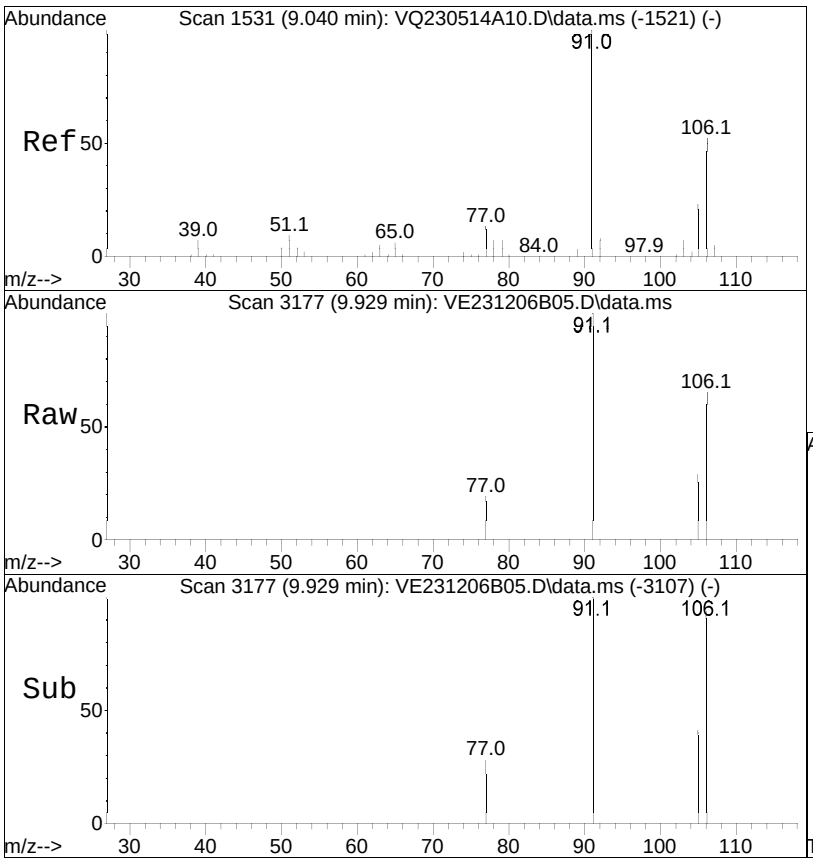


#11
Carbon disulfide
Concen: 0.09 ug/L
RT: 3.052 min Scan# 705
Delta R.T. 0.003 min
Lab File: VE231206B05.D
Acq: 6 Dec 2023 10:58 am

Tgt Ion: 76 Resp: 1547

Ion	Ratio	Lower	Upper
76	100		
78	0.0	6.8	14.0#

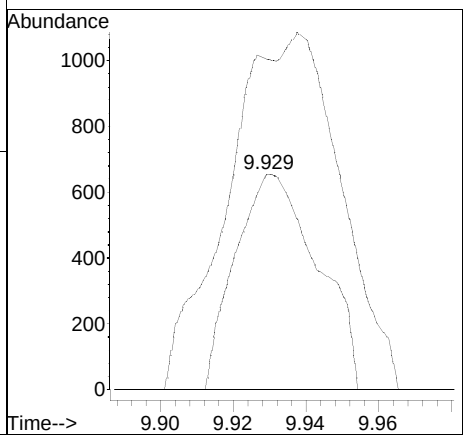


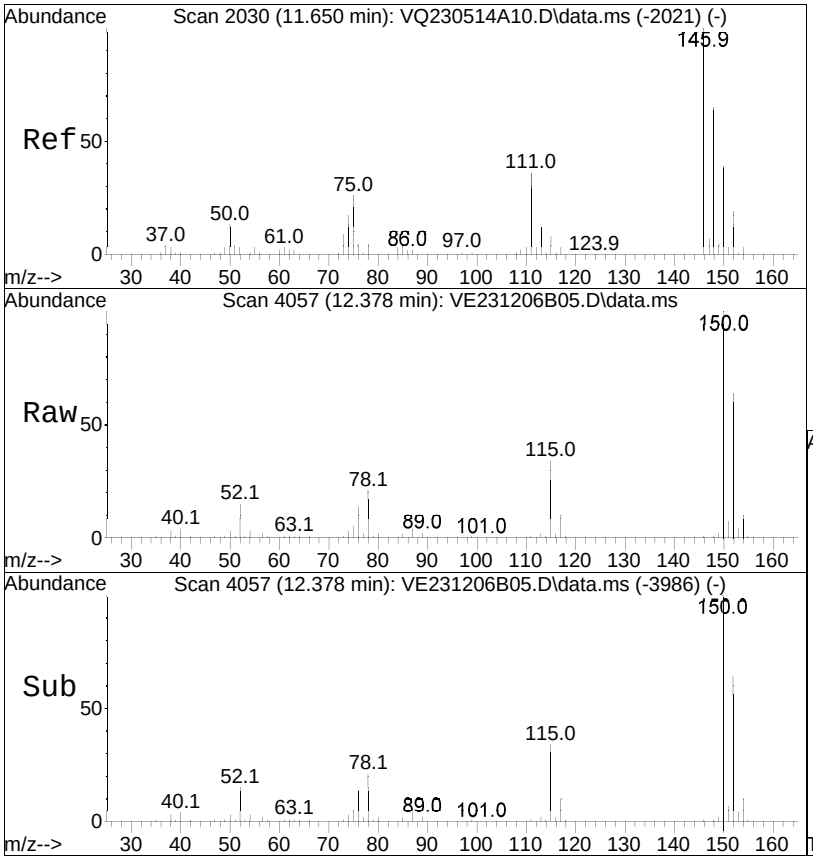


#81
p/m Xylene
Concen: 0.09 ug/L
RT: 9.929 min Scan# 3177
Delta R.T. -0.006 min
Lab File: VE231206B05.D
Acq: 6 Dec 2023 10:58 am

Tgt Ion:106 Resp: 1027

Ion	Ratio	Lower	Upper
106	100		
91	225.4	165.5	248.3

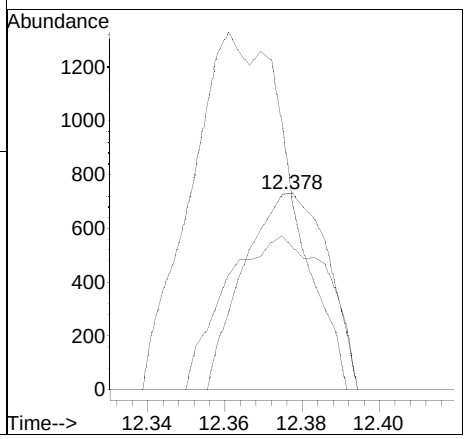


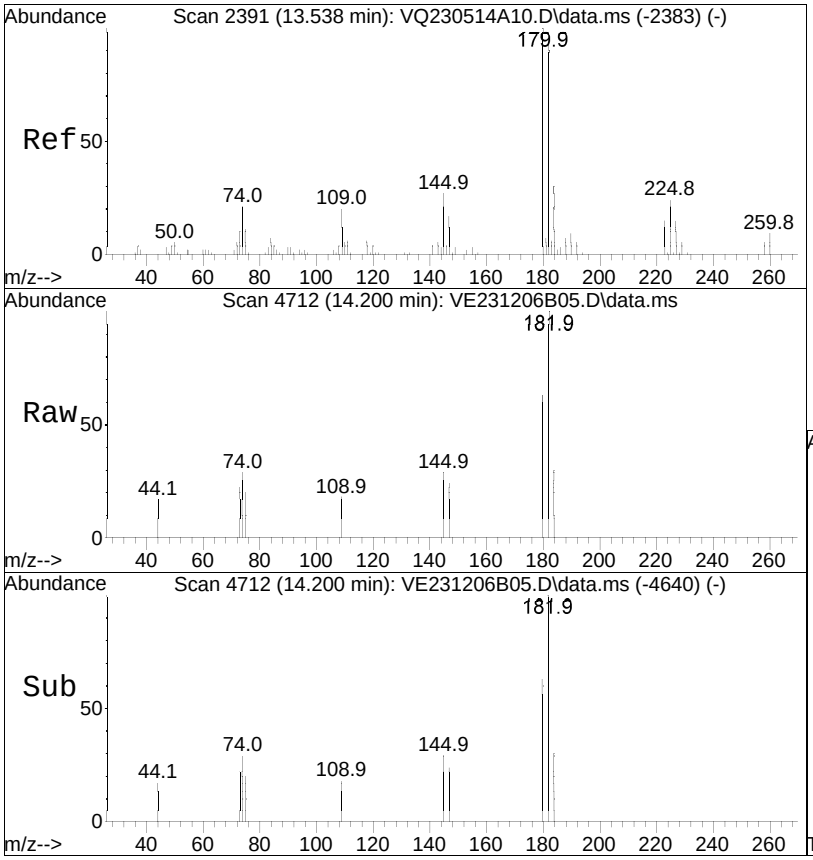


#106
1,4-Dichlorobenzene
Concen: 0.07 ug/L
RT: 12.378 min Scan# 4057
Delta R.T. -0.003 min
Lab File: VE231206B05.D
Acq: 6 Dec 2023 10:58 am

Tgt Ion:146 Resp: 1096

Ion	Ratio	Lower	Upper
146	100		
111	216.2	32.3	48.5#
148	95.7	51.0	76.6#

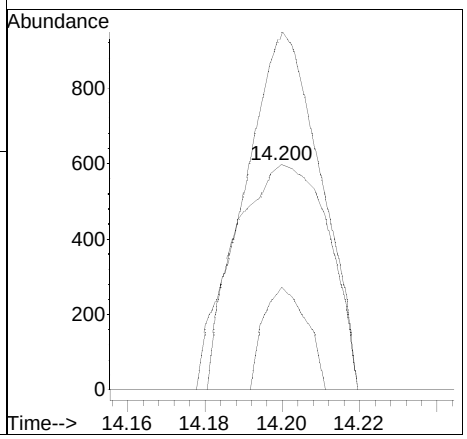


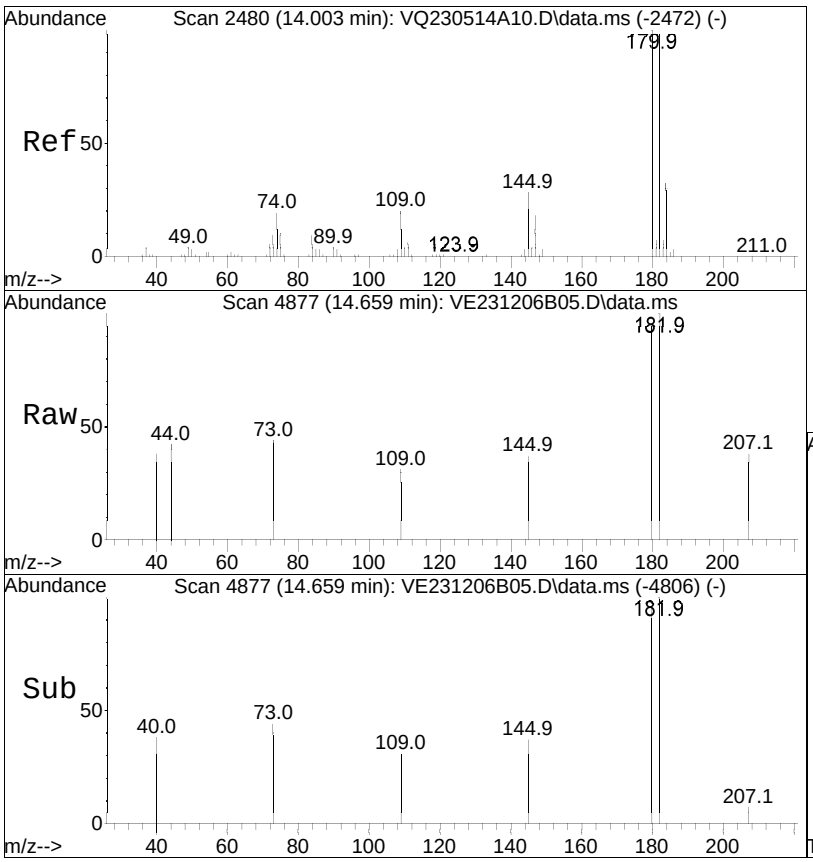


#114
1,2,4-Trichlorobenzene
Concen: 0.11 ug/L
RT: 14.200 min Scan# 4712
Delta R.T. -0.000 min
Lab File: VE231206B05.D
Acq: 6 Dec 2023 10:58 am

Tgt Ion:180 Resp: 987

Ion	Ratio	Lower	Upper
180	100		
182	133.1	76.0	114.0#
145	21.5	28.4	42.6#

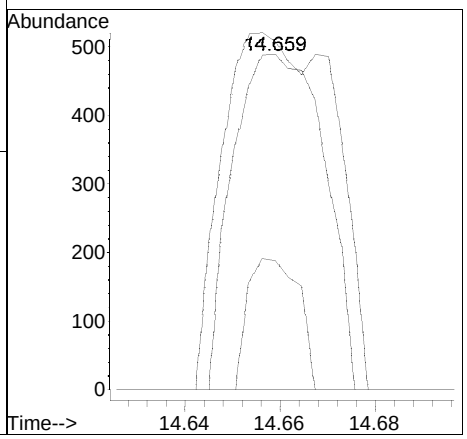




#116
1,2,3-Trichlorobenzene
Concen: 0.09 ug/L
RT: 14.659 min Scan# 4877
Delta R.T. -0.003 min
Lab File: VE231206B05.D
Acq: 6 Dec 2023 10:58 am

Tgt Ion:180 Resp: 649

Ion	Ratio	Lower	Upper
180	100		
182	130.4	76.5	114.7#
145	21.9	26.6	39.8#



Manual Integration Report

Data Path	: K:\Elaine\2023\231206B\	QMethod	: Elaine_231127N_8260.m
Data File	: VE231206B05.D	Operator	: ELAINE:PID
Date Inj'd	: 12/6/2023 10:58 am	Instrument	: Elaine
Sample	: WG1860843-5,31,10,10	Quant Date	: 12/6/2023 11:18 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A05.D
Acq On : 7 Dec 2023 8:09 am
Operator : ELAINE:MJV
Sample : WG1861020-5,31,10,10
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 09:05:48 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231207A\VE231207A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.126	96	259986	10.000 ug/L	0.00
Standard Area 1 = 294846			Recovery = 88.18%		
63) Chlorobenzene-d5	9.684	117	241893	10.000 ug/L	0.00
Standard Area 1 = 260022			Recovery = 93.03%		
84) 1,4-Dichlorobenzene-d4	12.364	152	138908	10.000 ug/L	0.00
Standard Area 1 = 151851			Recovery = 91.48%		
System Monitoring Compounds					
39) Dibromofluoromethane	5.305	113	70869	10.920 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.20%		
47) 1,2-Dichloroethane-d4	5.839	65	70683	9.644 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.44%		
64) Toluene-d8	7.831	98	269440	9.703 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.03%		
88) 4-Bromofluorobenzene	11.162	95	98650	9.388 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.88%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.469	85	113	N.D.	
3) Chloromethane	1.850	50	176	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.250	94	275	0.132 ug/L #	73
6) Chloroethane	0.000		0	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	0.000		0	N.D. d	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	0.000		0	N.D.	
17) Acetone	3.630	43	52	N.D.	
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.630	43	52	N.D.	
21) Methyl tert-butyl ether	0.000		0	N.D.	
25) 1,1-Dichloroethane	0.000		0	N.D.	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	
33) Bromochloromethane	0.000		0	N.D.	
34) Cyclohexane	0.000		0	N.D.	
35) Chloroform	5.119	83	25	N.D.	
37) Carbon tetrachloride	0.000		0	N.D.	

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A05.D
Acq On : 7 Dec 2023 8:09 am
Operator : ELAINE:MJV
Sample : WG1861020-5,31,10,10
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 09:05:48 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231207A\VE231207A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,1,1-Trichloroethane	0.000		0	N.D.		
42) 2-Butanone	0.000		0	N.D.		
45) Benzene	0.000		0	N.D.		
48) 1,2-Dichloroethane	0.000		0	N.D.		
51) Methyl cyclohexane	0.000		0	N.D.		
52) Trichloroethene	0.000		0	N.D.		
55) 1,2-Dichloropropane	0.000		0	N.D.		
58) Bromodichloromethane	0.000		0	N.D.		
61) 1,4-Dioxane	0.000		0	N.D.		
62) cis-1,3-Dichloropropene	0.000		0	N.D.		
65) Toluene	0.000		0	N.D.		
66) 4-Methyl-2-pentanone	0.000		0	N.D.		
67) Tetrachloroethene	0.000		0	N.D.		
69) trans-1,3-Dichloropropene	0.000		0	N.D.		
72) 1,1,2-Trichloroethane	0.000		0	N.D.		
73) Chlorodibromomethane	0.000		0	N.D.		
75) 1,2-Dibromoethane	0.000		0	N.D.		
77) 2-Hexanone	0.000		0	N.D.		
78) Chlorobenzene	9.707	112	288	N.D.		
79) Ethylbenzene	9.740	91	413	N.D.		
81) p/m Xylene	9.921	106	134	N.D.		
82) o Xylene	10.463	106	54	N.D.		
83) Styrene	10.539	104	536	N.D.		
85) Bromoform	0.000		0	N.D.		
87) Isopropylbenzene	10.847	105	286	N.D.		
92) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
105) 1,3-Dichlorobenzene	12.283	146	717	N.D.		
106) 1,4-Dichlorobenzene	12.378	146	1044	0.081	ug/L #	1
109) 1,2-Dichlorobenzene	12.798	146	767	N.D.		
111) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
114) 1,2,4-Trichlorobenzene	14.194	180	998	0.138	ug/L #	75
116) 1,2,3-Trichlorobenzene	14.659	180	640	0.102	ug/L #	77

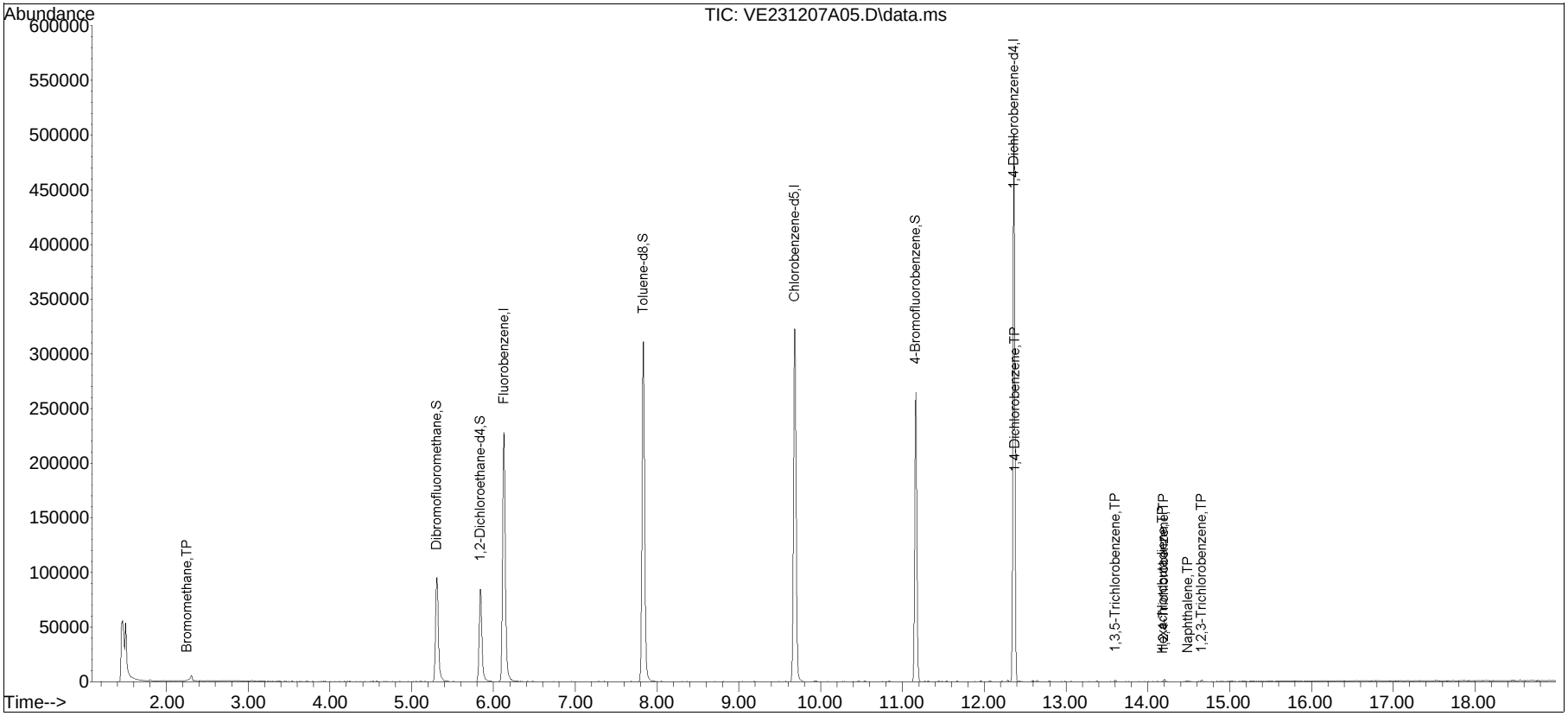
(#) = qualifier out of range (m) = manual integration (+) = signals summed

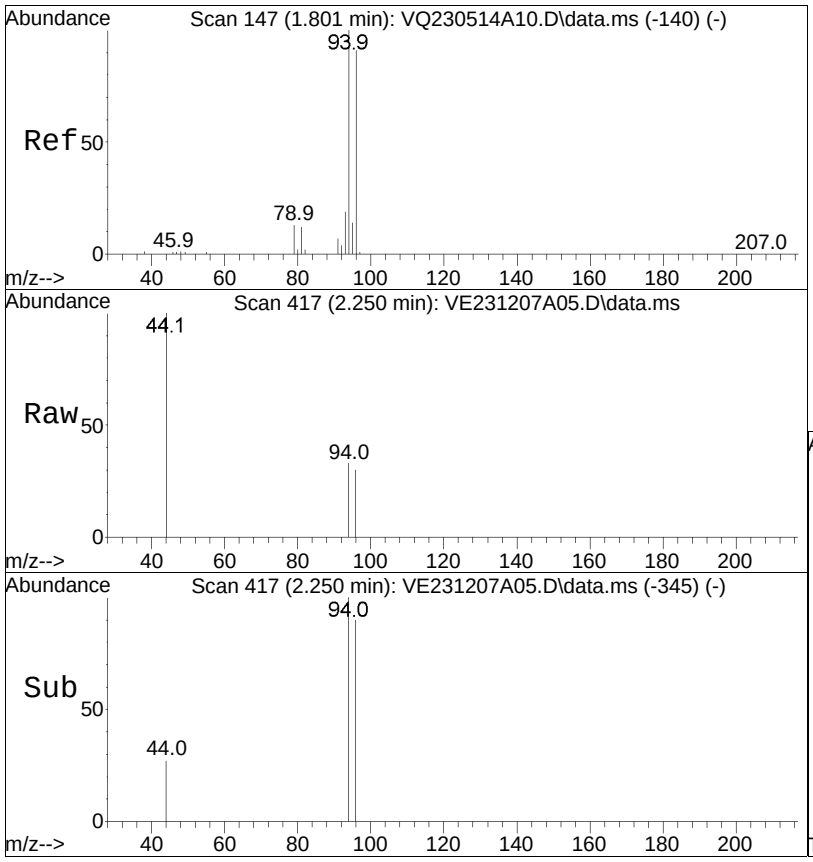
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A05.D
Acq On : 7 Dec 2023 8:09 am
Operator : ELAINE:MJV
Sample : WG1861020-5,31,10,10
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 09:05:48 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO•

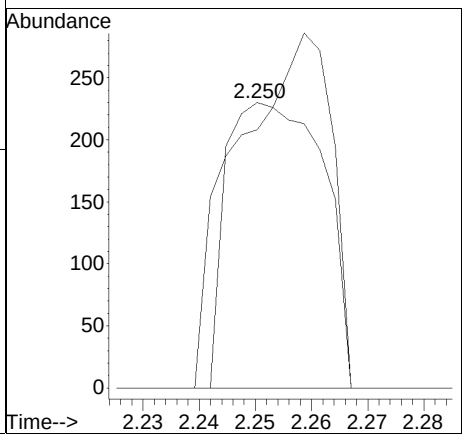


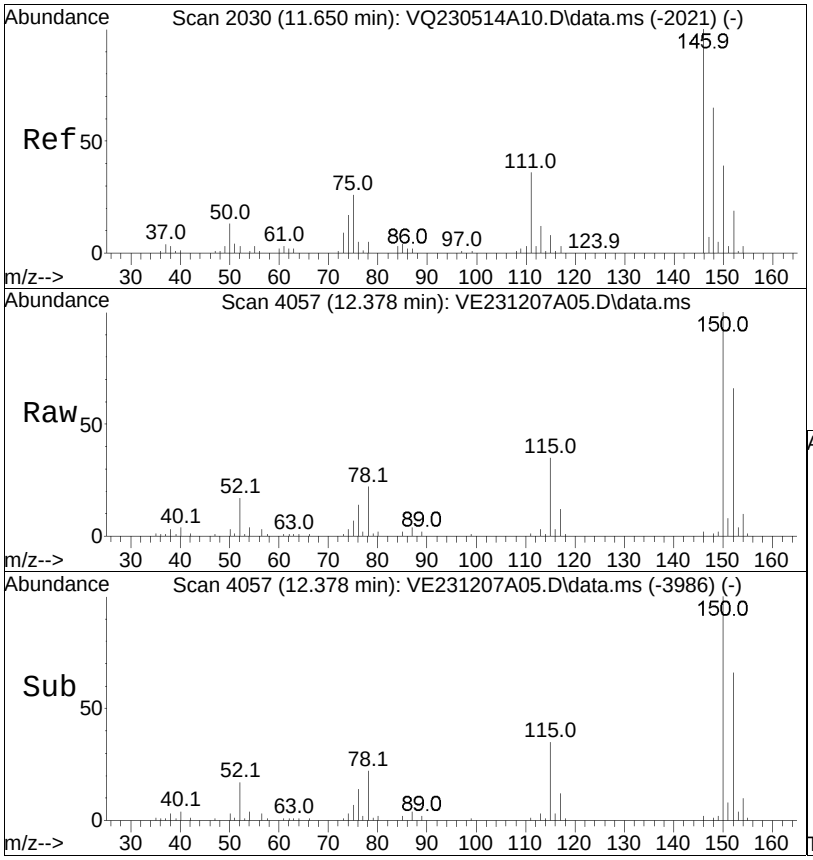


#5
Bromomethane
Concen: 0.13 ug/L
RT: 2.250 min Scan# 417
Delta R.T. 0.000 min
Lab File: VE231207A05.D
Acq: 7 Dec 2023 8:09 am

Tgt Ion: 94 Resp: 275

Ion	Ratio	Lower	Upper
94	100		
96	120.4	73.9	113.9#

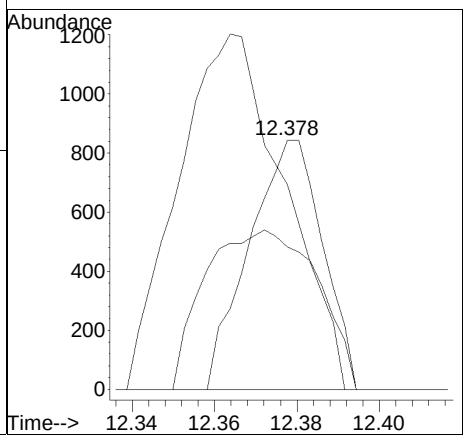


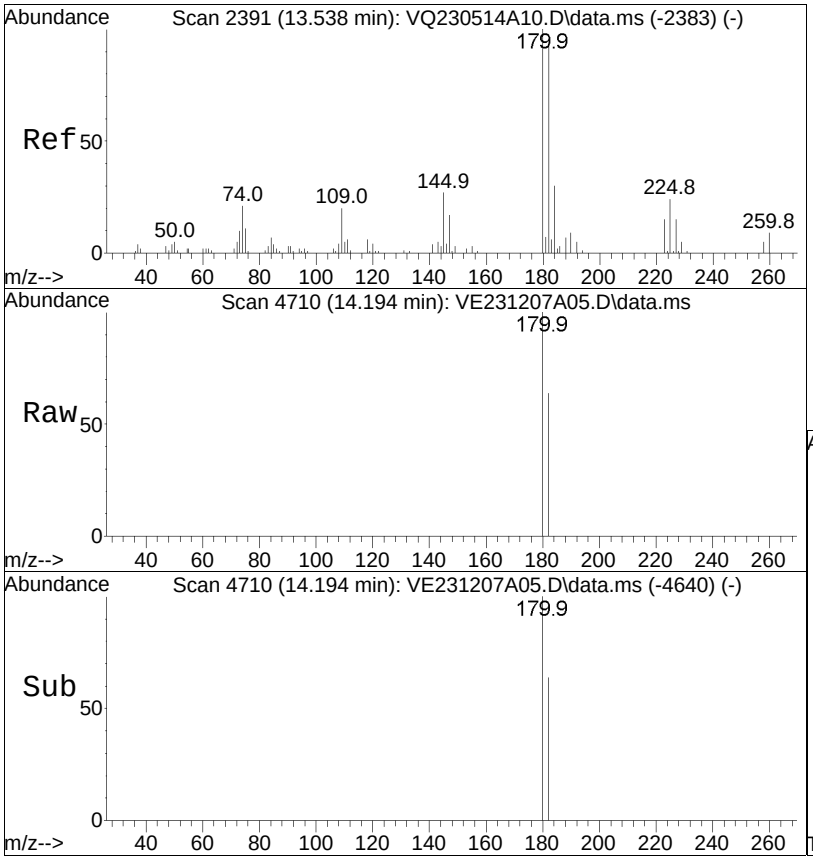


#106
1,4-Dichlorobenzene
Concen: 0.08 ug/L
RT: 12.378 min Scan# 4057
Delta R.T. -0.003 min
Lab File: VE231207A05.D
Acq: 7 Dec 2023 8:09 am

Tgt Ion:146 Resp: 1044

Ion	Ratio	Lower	Upper
146	100		
111	205.9	32.3	48.5#
148	97.7	51.0	76.6#

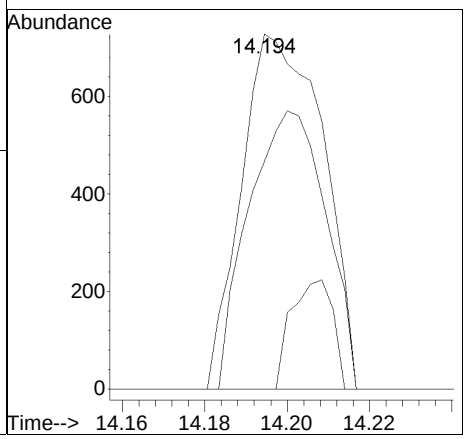


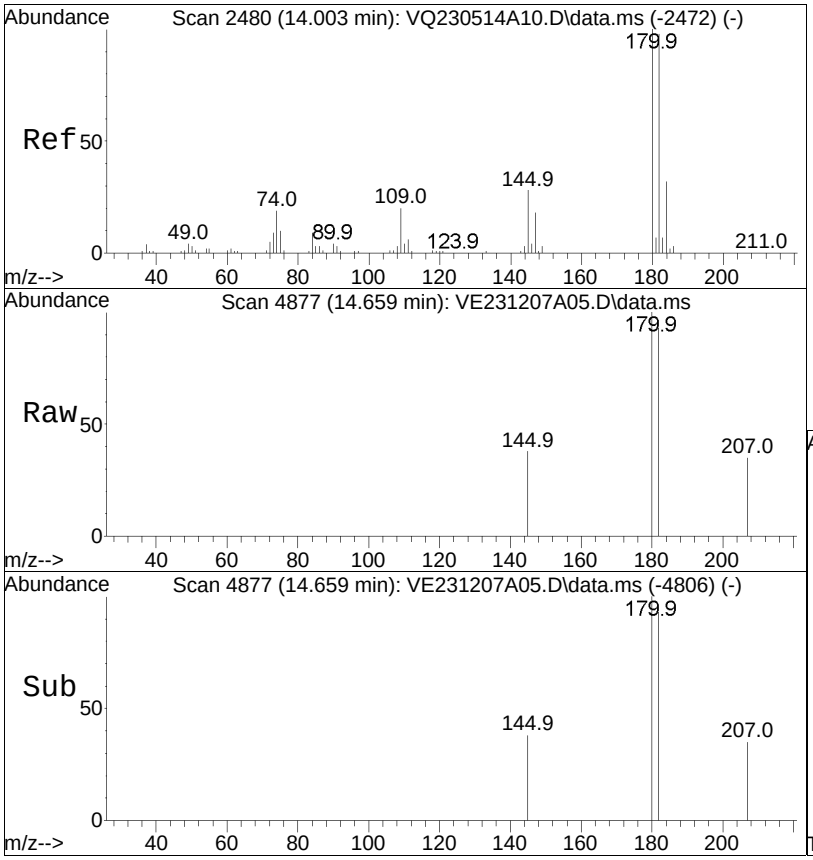


#114
1,2,4-Trichlorobenzene
Concen: 0.14 ug/L
RT: 14.194 min Scan# 4710
Delta R.T. -0.006 min
Lab File: VE231207A05.D
Acq: 7 Dec 2023 8:09 am

Tgt Ion:180 Resp: 998

Ion	Ratio	Lower	Upper
180	100		
182	74.3	76.0	114.0#
145	15.7	28.4	42.6#

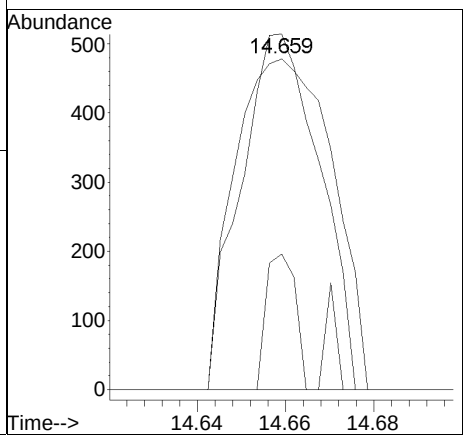




#116
1,2,3-Trichlorobenzene
Concen: 0.10 ug/L
RT: 14.659 min Scan# 4877
Delta R.T. -0.003 min
Lab File: VE231207A05.D
Acq: 7 Dec 2023 8:09 am

Tgt Ion:180 Resp: 640

Ion	Ratio	Lower	Upper
180	100		
182	114.7	76.5	114.7
145	14.2	26.6	39.8#



Manual Integration Report

Data Path	: K:\Elaine\2023\231207A\	QMethod	: Elaine_231127N_8260.m
Data File	: VE231207A05.D	Operator	: ELAINE:MJV
Date Inj'd	: 12/7/2023 8:09 am	Instrument	: Elaine
Sample	: WG1861020-5,31,10,10	Quant Date	: 12/7/2023 9:04 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A01.D
Acq On : 7 Dec 2023 6:31 am
Operator : ELAINE:MJV
Sample : WG1861020-3,31,10,10
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 06:57:25 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231207A\VE231207A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.123	96	294846	10.000	ug/L	0.00
Standard Area 1 = 294846			Recovery = 100.00%			
63) Chlorobenzene-d5	9.682	117	260022	10.000	ug/L	0.00
Standard Area 1 = 260022			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.361	152	151851	10.000	ug/L	0.00
Standard Area 1 = 151851			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.302	113	74420	10.111	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.11%			
47) 1,2-Dichloroethane-d4	5.837	65	73452	8.836	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.36%			
64) Toluene-d8	7.829	98	296559	9.935	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.35%			
88) 4-Bromofluorobenzene	11.159	95	108968	9.486	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.658	85	47110	6.444	ug/L	97
3) Chloromethane	1.852	50	57442	6.868	ug/L	99
4) Vinyl chloride	1.933	62	60919	8.022	ug/L	100
5) Bromomethane	2.250	94	24826	10.476	ug/L	98
6) Chloroethane	2.373	64	38820	9.978	ug/L	97
7) Trichlorofluoromethane	2.517	101	90039	11.676	ug/L	98
10) 1,1-Dichloroethene	3.015	96	57305	11.639	ug/L	78
11) Carbon disulfide	3.046	76	175448	11.240	ug/L	98
12) Freon-113	3.054	101	64635	11.803	ug/L	99
15) Methylene chloride	3.586	84	66140	10.760	ug/L	89
17) Acetone	3.619	43	10321	7.033	ug/L	94
18) trans-1,2-Dichloroethene	3.739	96	62512	11.390	ug/L	87
19) Methyl acetate	3.744	43	22547	6.510	ug/L #	92
21) Methyl tert-butyl ether	3.839	73	131945	9.897	ug/L	94
25) 1,1-Dichloroethane	4.331	63	118295	9.987	ug/L	97
30) cis-1,2-Dichloroethene	4.857	96	71999	11.433	ug/L	83
33) Bromochloromethane	5.052	128	31217	11.403	ug/L	87
34) Cyclohexane	5.058	56	106961	7.978	ug/L	91
35) Chloroform	5.124	83	114003	11.423	ug/L	94
37) Carbon tetrachloride	5.261	117	87201	11.667	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A01.D
Acq On : 7 Dec 2023 6:31 am
Operator : ELAINE:MJV
Sample : WG1861020-3,31,10,10
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 06:57:25 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231207A\VE231207A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40)	1,1,1-Trichloroethane	5.330	97	103647	11.571	ug/L		93
42)	2-Butanone	5.422	43	13167	6.286	ug/L	#	83
45)	Benzene	5.700	78	265930	11.424	ug/L		94
48)	1,2-Dichloroethane	5.906	62	70198	9.107	ug/L		97
51)	Methyl cyclohexane	6.293	83	107987	10.564	ug/L		89
52)	Trichloroethene	6.301	95	66190	11.176	ug/L		98
55)	1,2-Dichloropropane	6.852	63	62176	9.239	ug/L		97
58)	Bromodichloromethane	6.922	83	79337	10.597	ug/L		98
61)	1,4-Dioxane	7.130	88	16993	488.839	ug/L	#	88
62)	cis-1,3-Dichloropropene	7.614	75	93522	10.520	ug/L	#	83
65)	Toluene	7.887	92	165113	11.167	ug/L		99
66)	4-Methyl-2-pentanone	8.321	58	10904	6.506	ug/L		83
67)	Tetrachloroethene	8.335	166	71025	10.705	ug/L		94
69)	trans-1,3-Dichloropropene	8.368	75	76600	10.236	ug/L	#	82
72)	1,1,2-Trichloroethane	8.558	83	38069	10.129	ug/L		99
73)	Chlorodibromomethane	8.769	129	52491	9.898	ug/L		98
75)	1,2-Dibromoethane	9.047	107	41741	9.658	ug/L		99
77)	2-Hexanone	9.331	43	17929	6.017	ug/L		92
78)	Chlorobenzene	9.701	112	177987	10.995	ug/L		90
79)	Ethylbenzene	9.740	91	313310	11.043	ug/L		99
81)	p/m Xylene	9.929	106	248261	22.891	ug/L		96
82)	o Xylene	10.464	106	238178	22.758	ug/L		94
83)	Styrene	10.530	104	378989	22.854	ug/L		92
85)	Bromoform	10.553	173	28745	8.998	ug/L		99
87)	Isopropylbenzene	10.842	105	309291	10.444	ug/L		100
92)	1,1,2,2-Tetrachloroethane	11.401	83	47267	10.059	ug/L		99
105)	1,3-Dichlorobenzene	12.286	146	147181	10.530	ug/L		99
106)	1,4-Dichlorobenzene	12.378	146	145545	10.394	ug/L		98
109)	1,2-Dichlorobenzene	12.798	146	132546	10.224	ug/L		98
111)	1,2-Dibromo-3-chloropr...	13.574	155	6667	8.928	ug/L		95
114)	1,2,4-Trichlorobenzene	14.200	180	74646	9.456	ug/L		98
116)	1,2,3-Trichlorobenzene	14.659	180	63882	9.287	ug/L		99

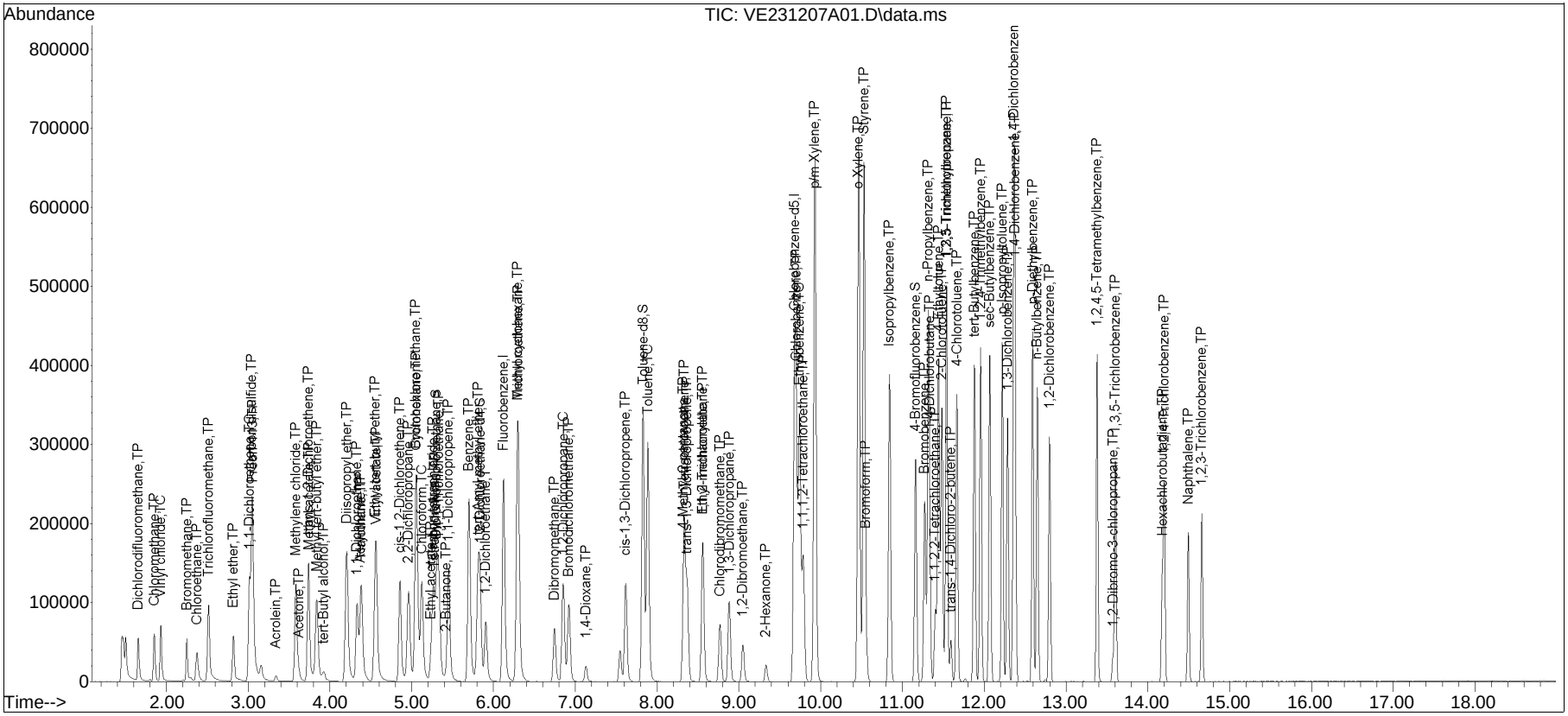
(#) = qualifier out of range (m) = manual integration (+) = signals summed

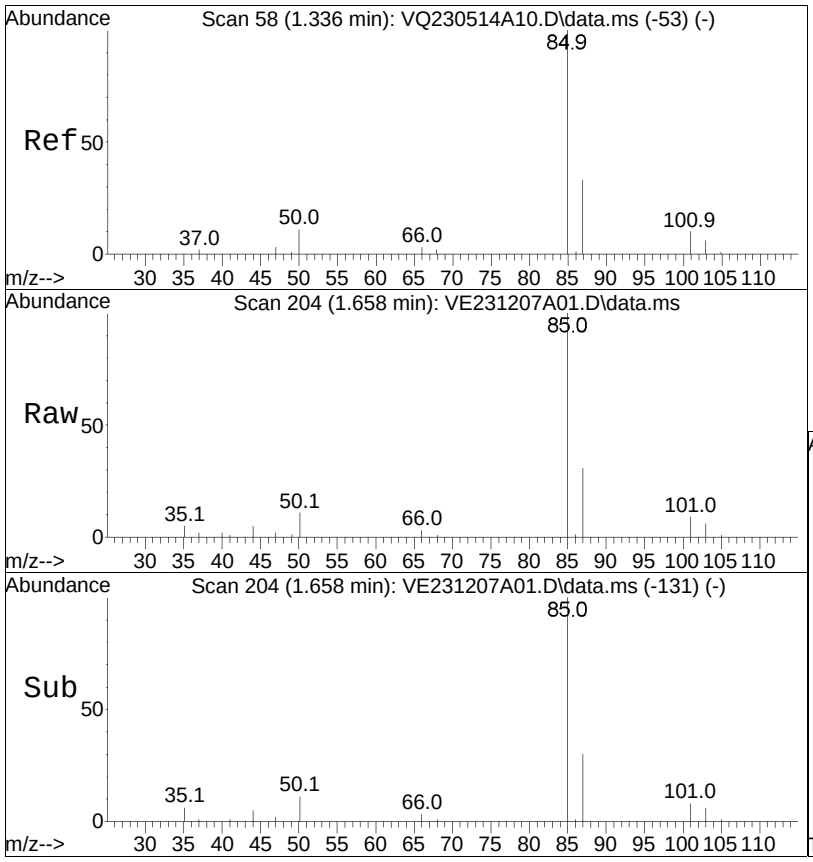
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A01.D
Acq On : 7 Dec 2023 6:31 am
Operator : ELAINE:MJV
Sample : WG1861020-3,31,10,10
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 06:57:25 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO•

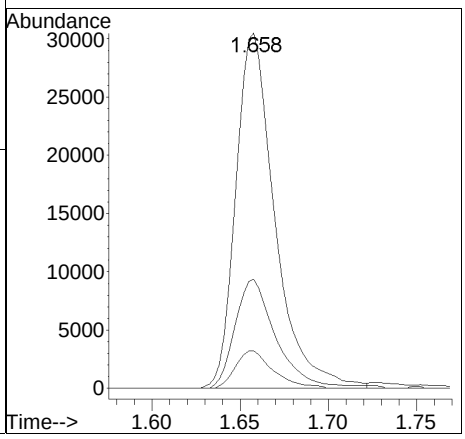


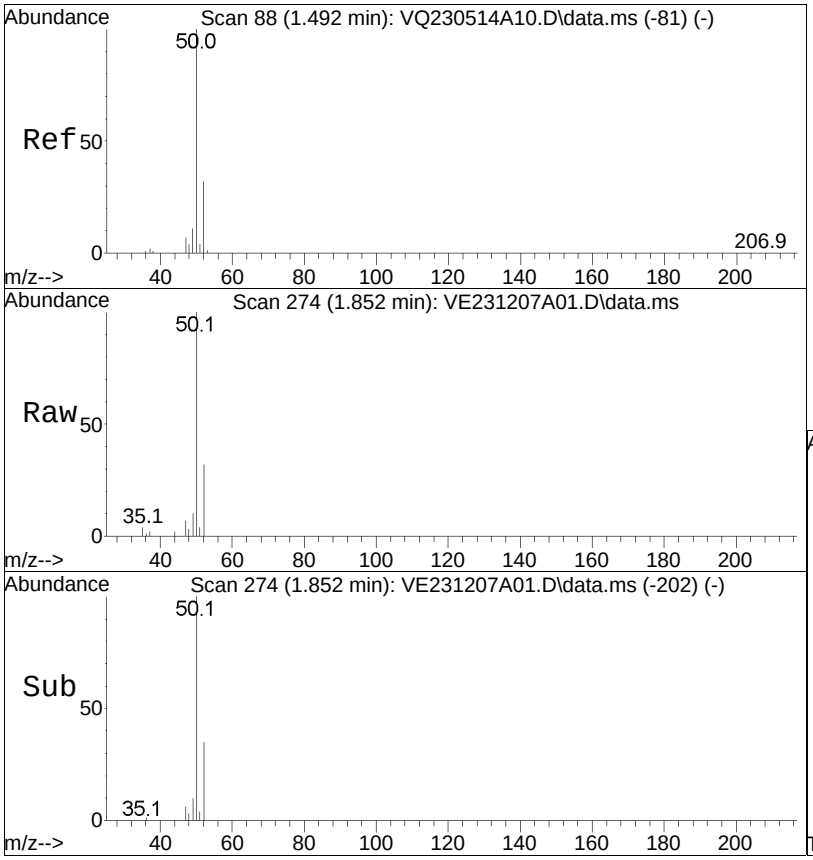


#2
Dichlorodifluoromethane
Concen: 6.44 ug/L
RT: 1.658 min Scan# 204
Delta R.T. 0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 85 Resp: 47110

Ion	Ratio	Lower	Upper
85	100		
87	31.9	20.9	43.5
50	10.3	8.6	18.0

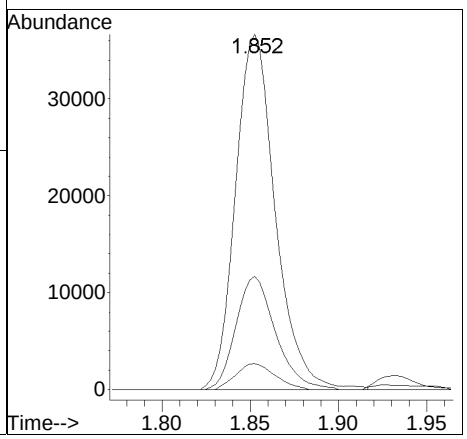


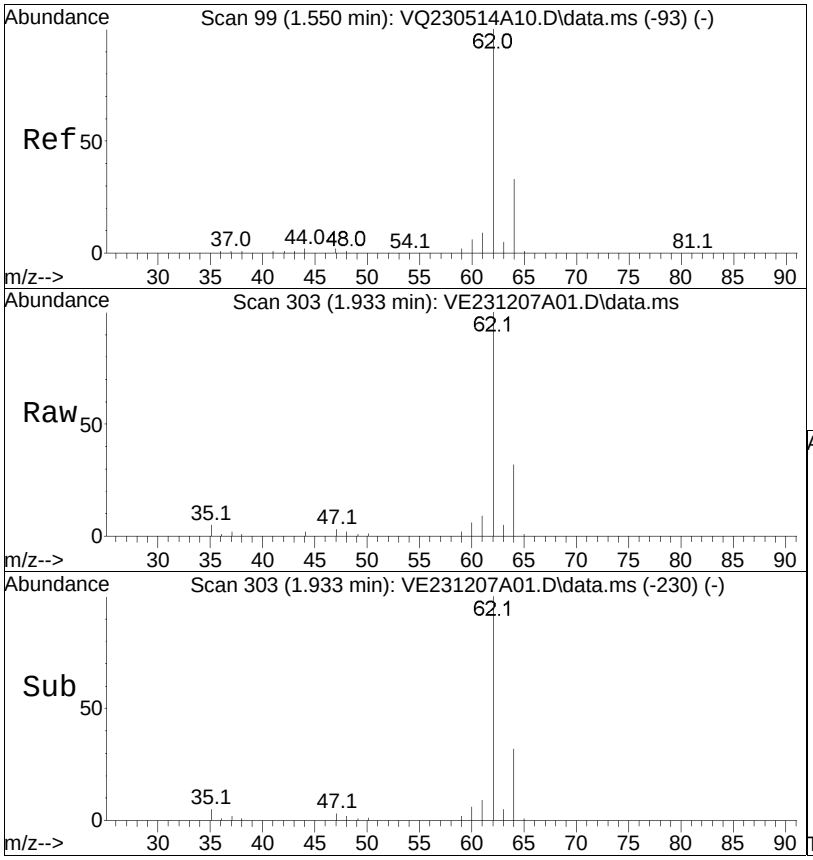


#3
Chloromethane
Concen: 6.87 ug/L
RT: 1.852 min Scan# 274
Delta R.T. 0.000 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 50 Resp: 57442

Ion	Ratio	Lower	Upper
50	100		
52	31.6	11.5	51.5
47	7.1	0.0	28.2

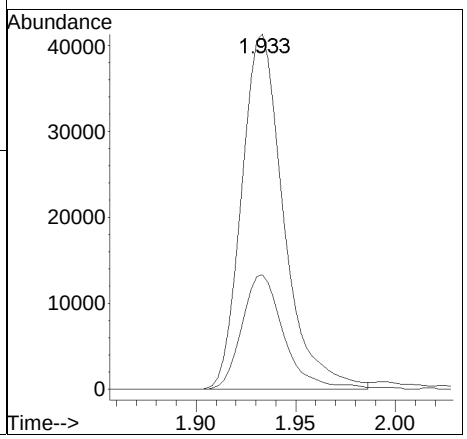


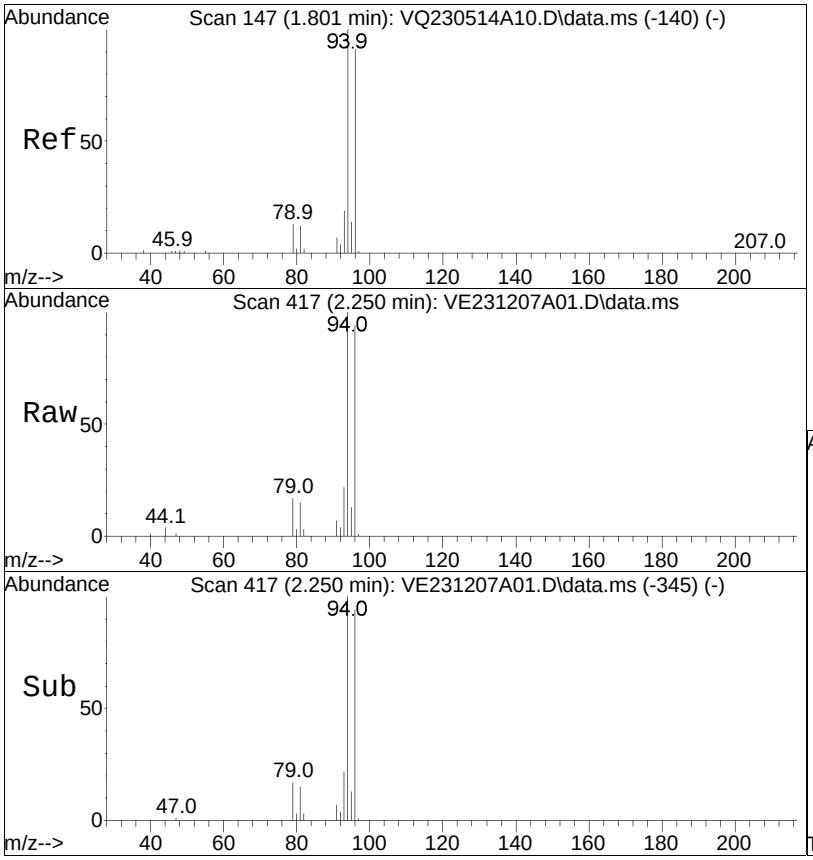


#4
Vinyl chloride
Concen: 8.02 ug/L
RT: 1.933 min Scan# 303
Delta R.T. 0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 62 Resp: 60919

Ion	Ratio	Lower	Upper
62	100		
64	32.2	12.4	52.4

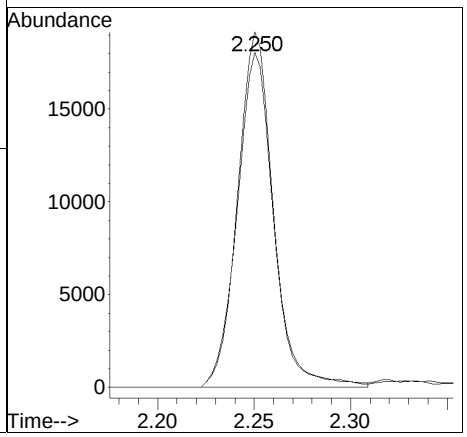


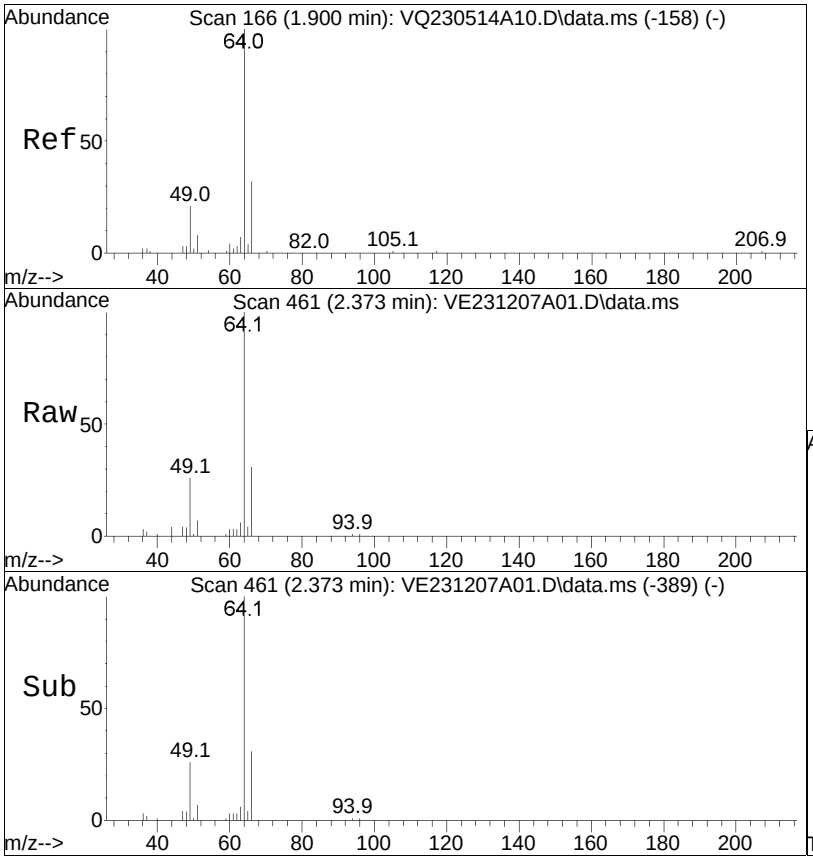


#5
Bromomethane
Concen: 10.48 ug/L
RT: 2.250 min Scan# 417
Delta R.T. 0.000 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 94 Resp: 24826

Ion	Ratio	Lower	Upper
94	100		
96	95.7	73.9	113.9

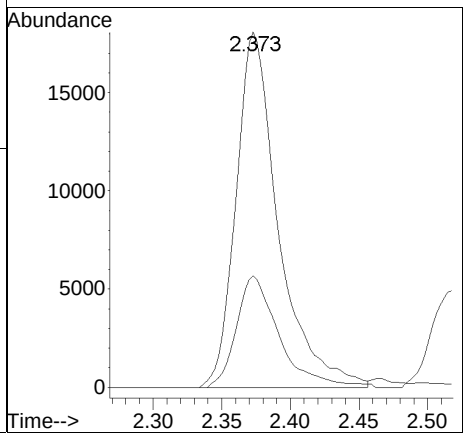


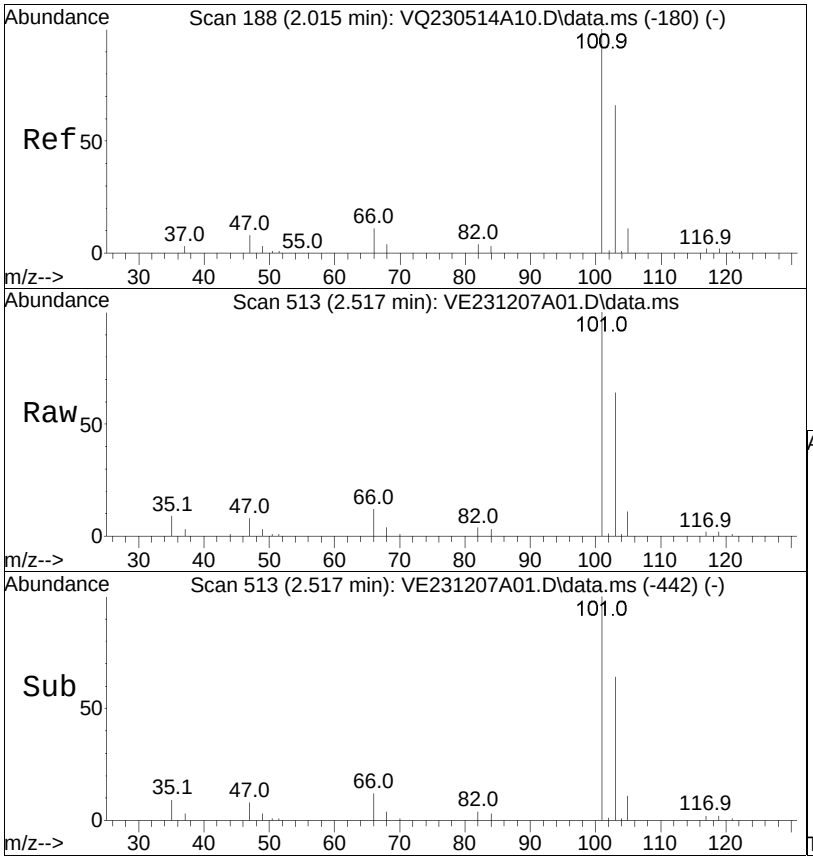


#6
Chloroethane
Concen: 9.98 ug/L
RT: 2.373 min Scan# 461
Delta R.T. 0.000 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 64 Resp: 38820

Ion	Ratio	Lower	Upper
64	100		
66	31.2	9.7	49.7

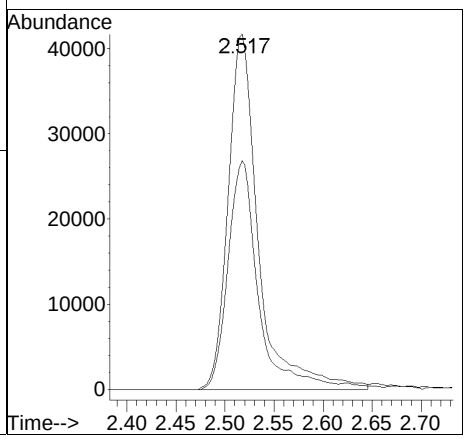


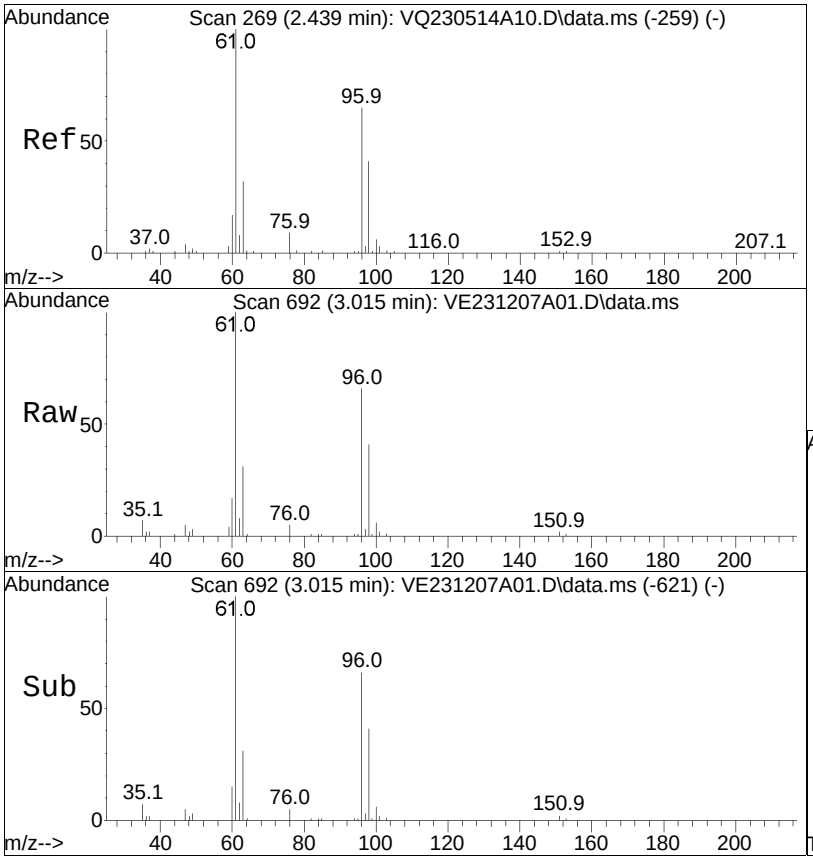


#7
Trichlorofluoromethane
Concen: 11.68 ug/L
RT: 2.517 min Scan# 513
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:101 Resp: 90039

Ion	Ratio	Lower	Upper
101	100		
103	63.9	52.2	78.2

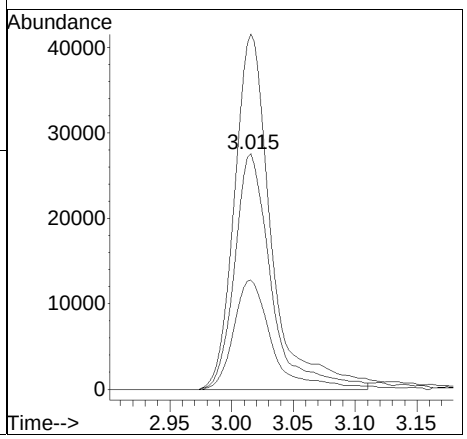


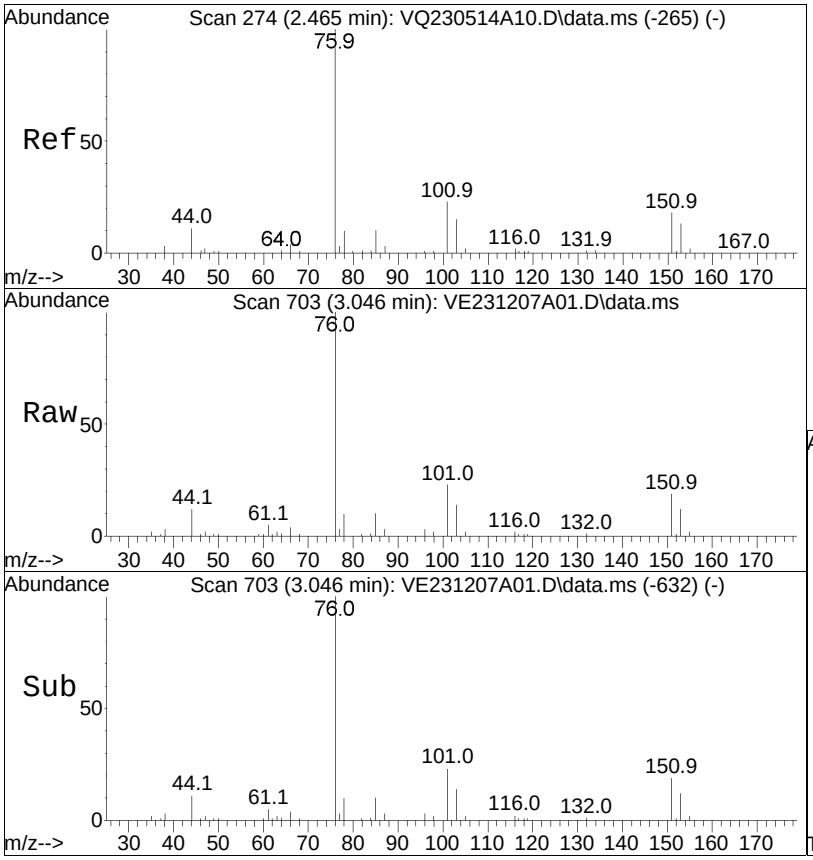


#10
1,1-Dichloroethene
Concen: 11.64 ug/L
RT: 3.015 min Scan# 692
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 96 Resp: 57305

Ion	Ratio	Lower	Upper
96	100		
61	152.4	149.7	224.5
63	47.7	46.8	70.2

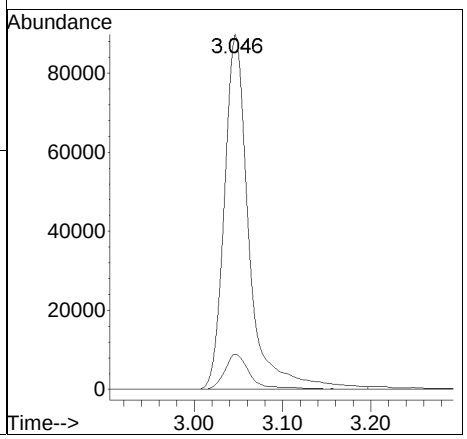


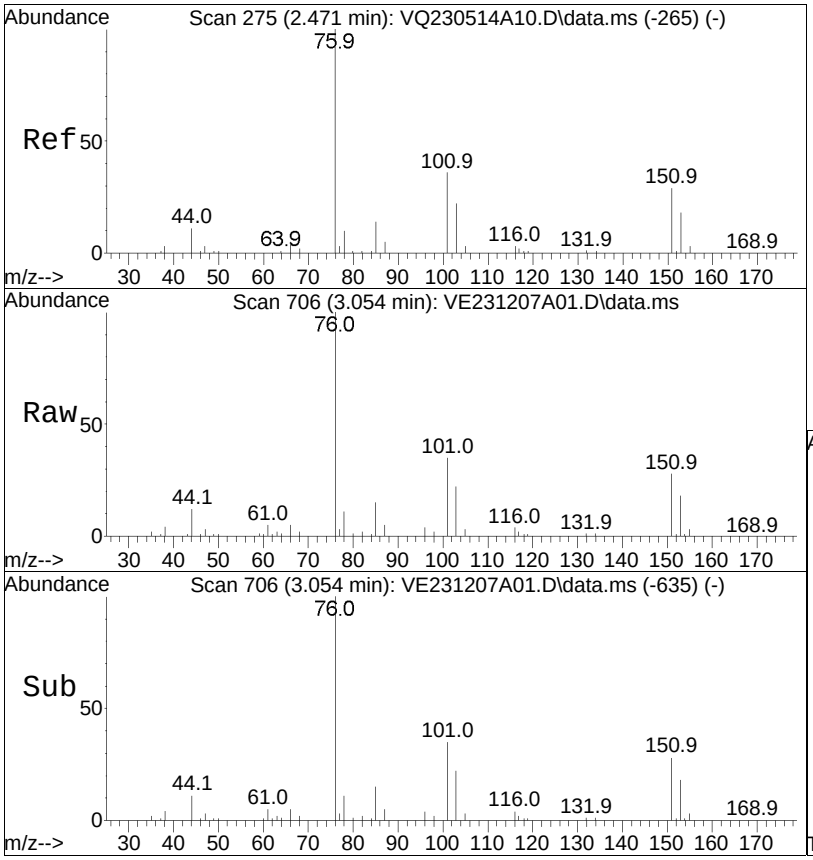


#11
Carbon disulfide
Concen: 11.24 ug/L
RT: 3.046 min Scan# 703
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 76 Resp: 175448

Ion	Ratio	Lower	Upper
76	100		
78	9.7	6.8	14.0

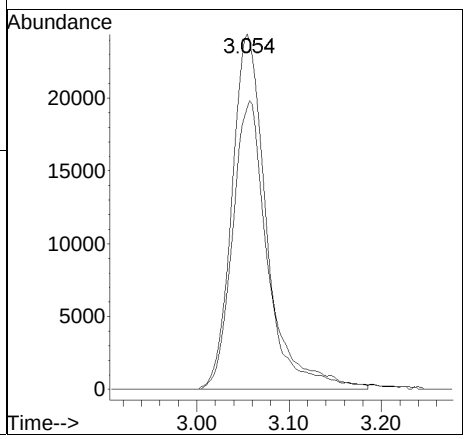


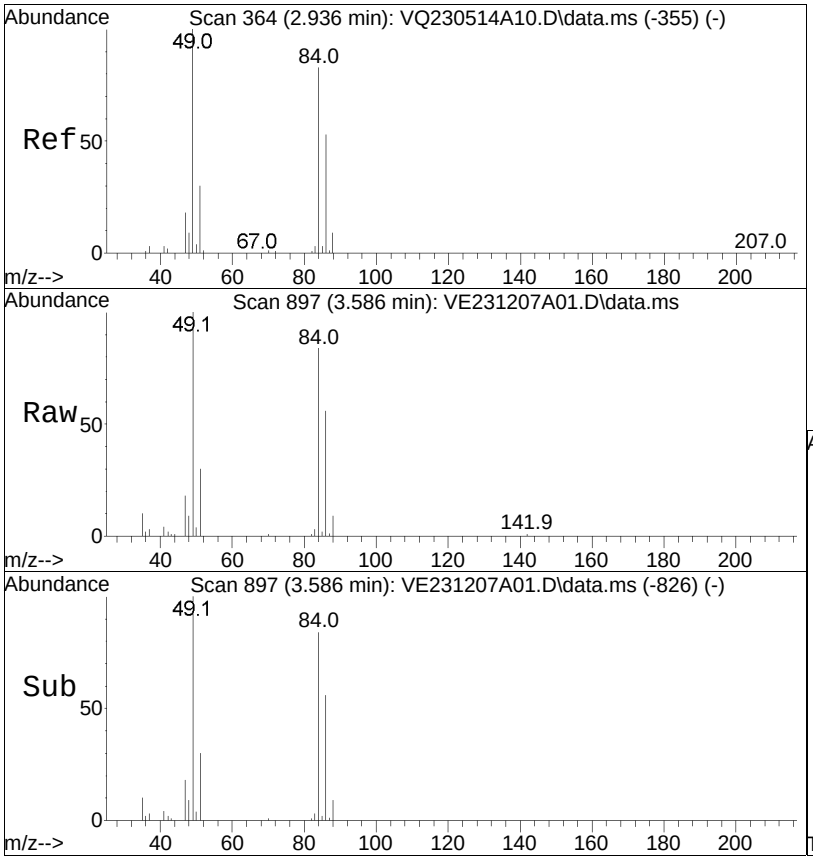


#12
Freon-113
Concen: 11.80 ug/L
RT: 3.054 min Scan# 706
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:101 Resp: 64635

Ion	Ratio	Lower	Upper
101	100		
151	80.3	63.6	95.4

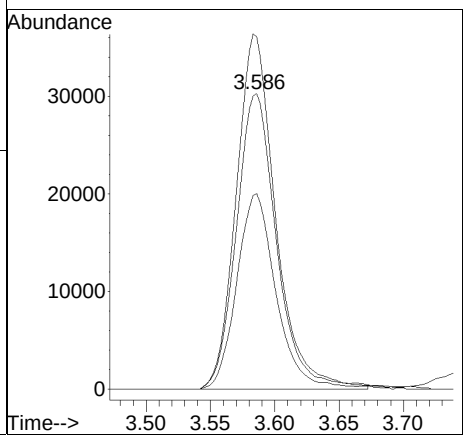


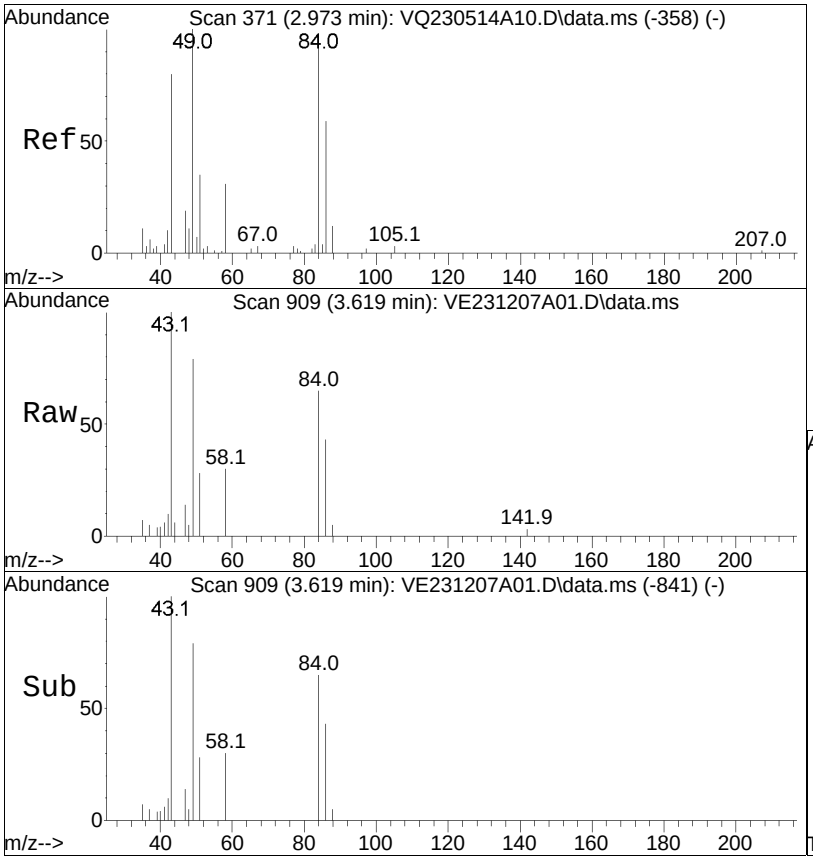


#15
Methylene chloride
Concen: 10.76 ug/L
RT: 3.586 min Scan# 897
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 84 Resp: 66140

Ion	Ratio	Lower	Upper
84	100		
86	64.5	41.0	85.2
49	116.8	88.1	183.1

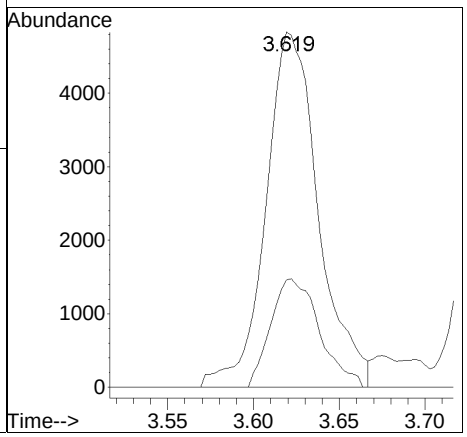


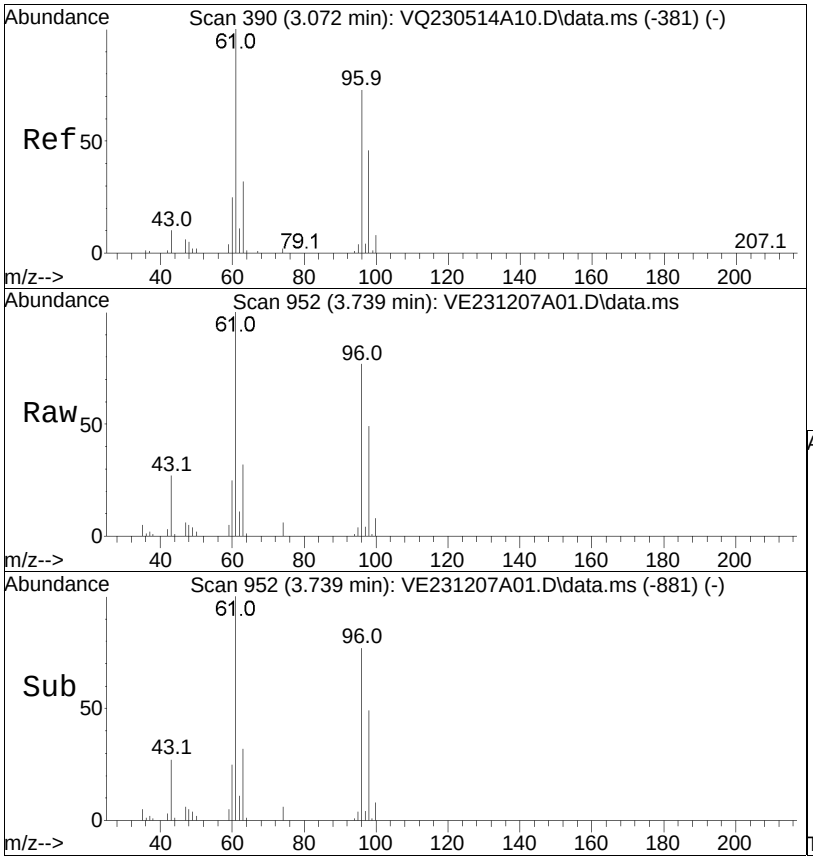


#17
Acetone
Concen: 7.03 ug/L
RT: 3.619 min Scan# 909
Delta R.T. -0.011 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 43 Resp: 10321

Ion	Ratio	Lower	Upper
43	100		
58	28.3	20.2	30.4

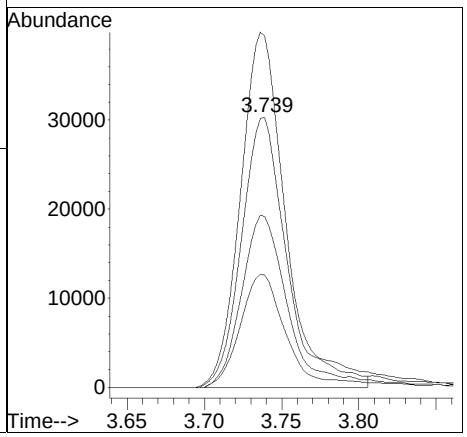


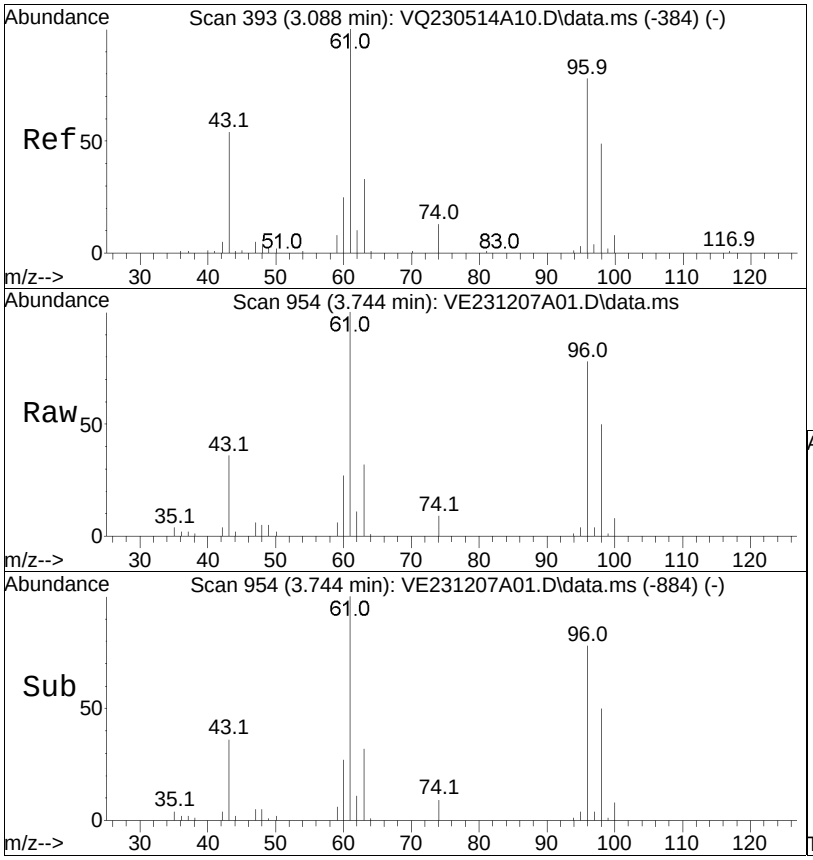


#18
trans-1,2-Dichloroethene
Concen: 11.39 ug/L
RT: 3.739 min Scan# 952
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 96 Resp: 62512

Ion	Ratio	Lower	Upper
96	100		
61	135.6	102.8	213.4
98	66.9	41.8	86.8
63	42.7	32.2	66.8

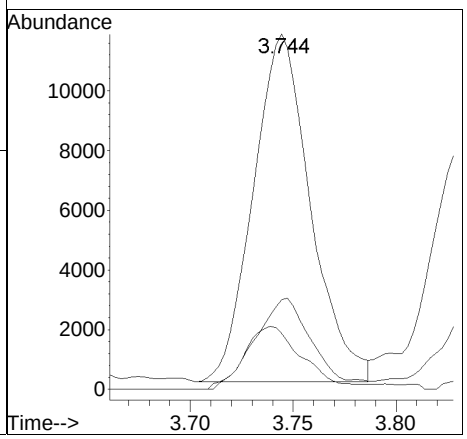


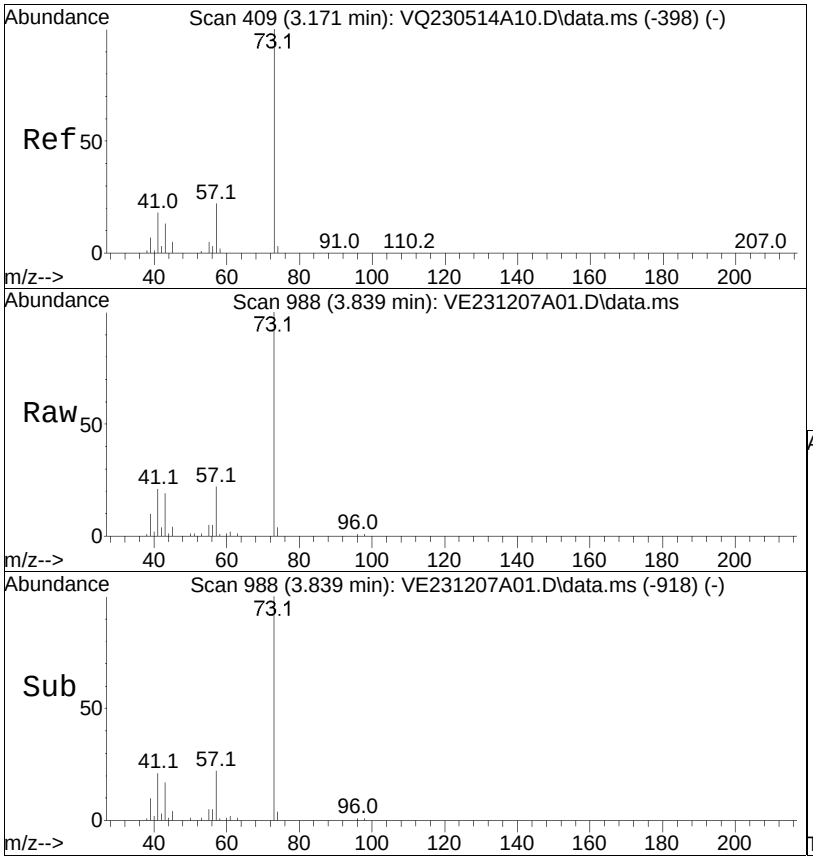


#19
Methyl acetate
Concen: 6.51 ug/L
RT: 3.744 min Scan# 954
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 43 Resp: 22547

Ion	Ratio	Lower	Upper
43	100		
74	26.6	16.6	24.8#
59	18.7	13.9	20.9

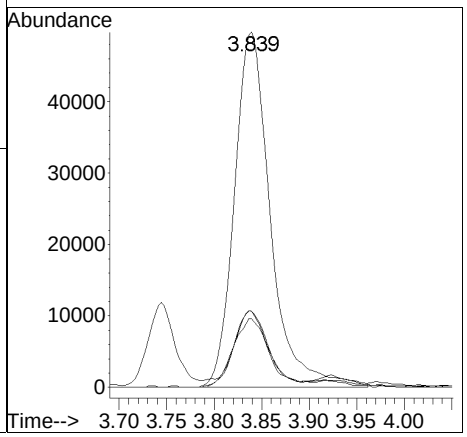


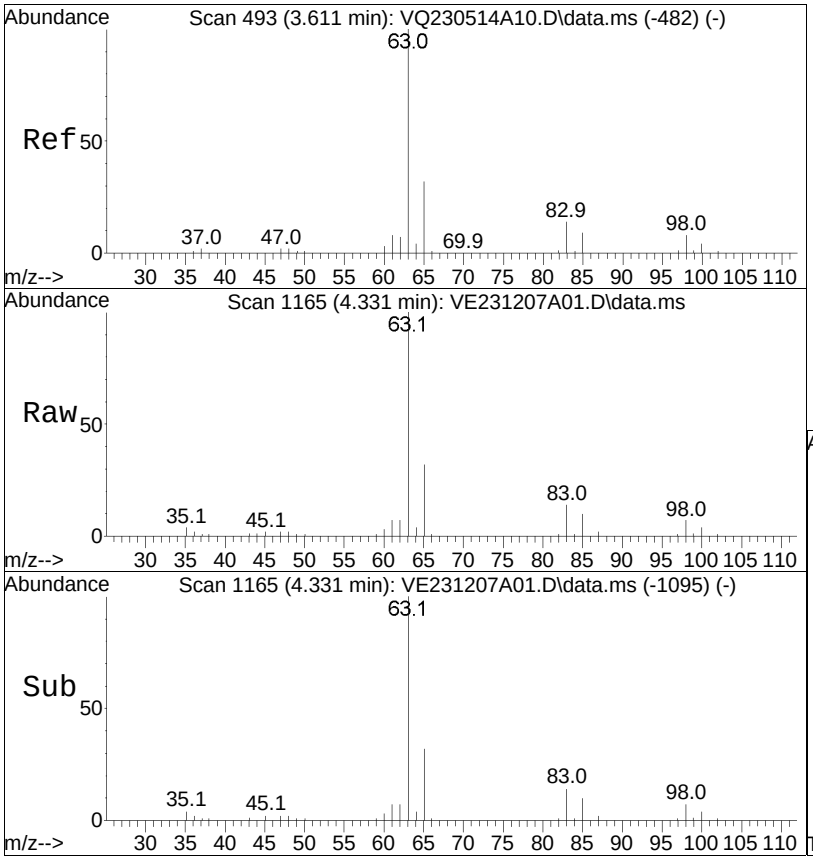


#21
Methyl tert-butyl ether
Concen: 9.90 ug/L
RT: 3.839 min Scan# 988
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 73 Resp: 131945

Ion	Ratio	Lower	Upper
73	100		
57	20.5	14.0	29.0
43	16.1	13.6	28.2
41	20.5	15.0	31.2

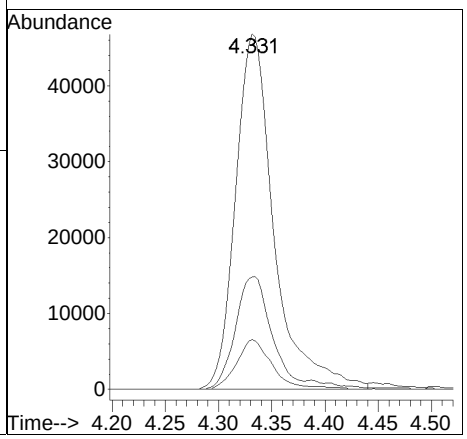


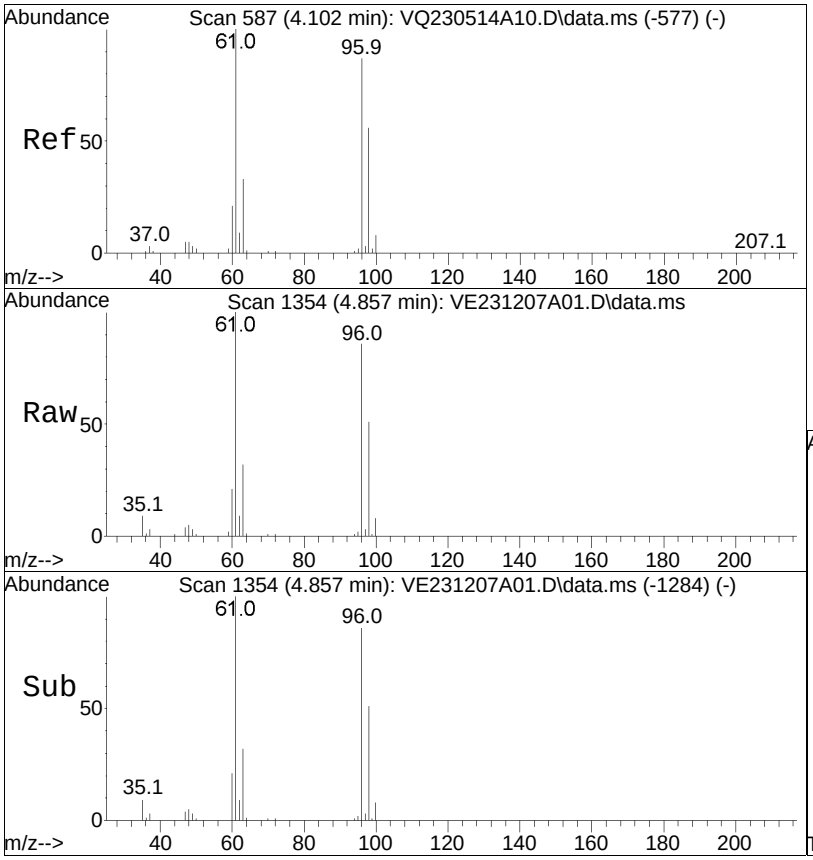


#25
1,1-Dichloroethane
Concen: 9.99 ug/L
RT: 4.331 min Scan# 1165
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 63 Resp: 118295

Ion	Ratio	Lower	Upper
63	100		
65	29.6	11.5	51.5
83	13.1	0.0	32.7

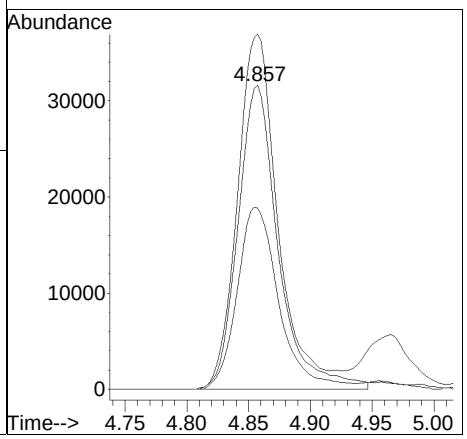


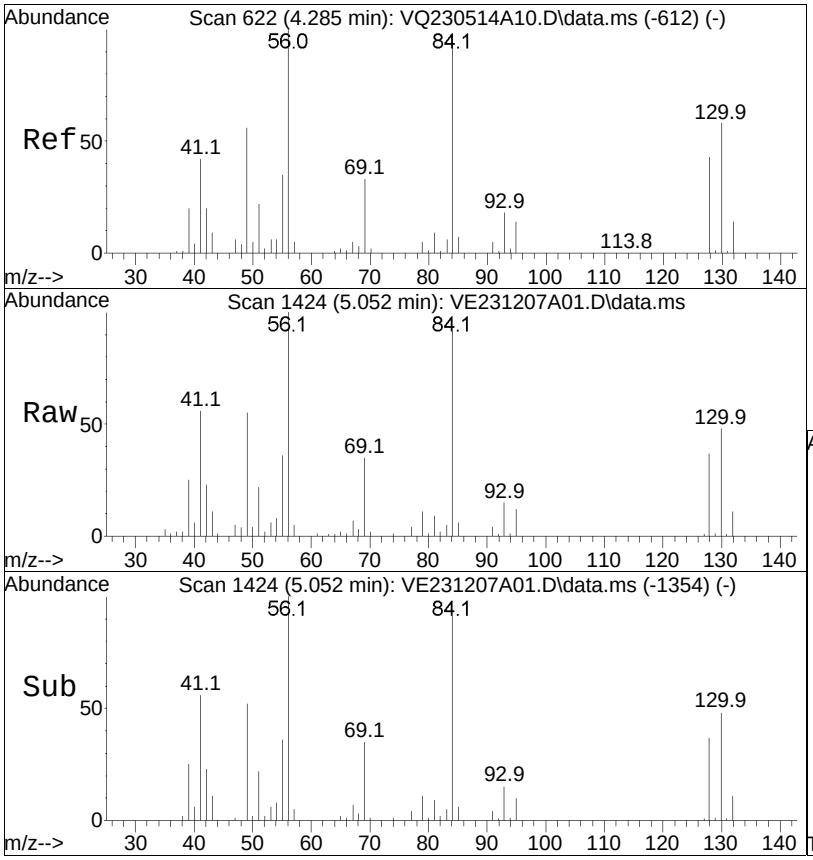


#30
cis-1,2-Dichloroethene
Concen: 11.43 ug/L
RT: 4.857 min Scan# 1354
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 96 Resp: 71999

Ion	Ratio	Lower	Upper
96	100		
61	115.8	115.3	172.9
98	62.1	51.8	77.8

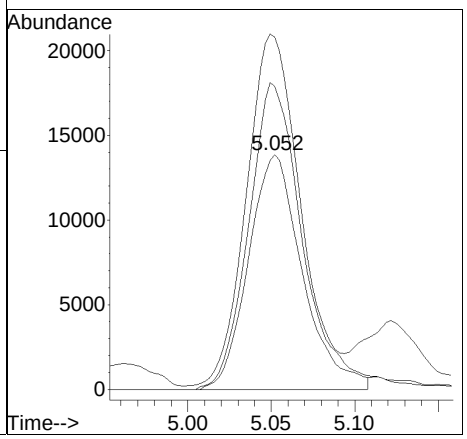


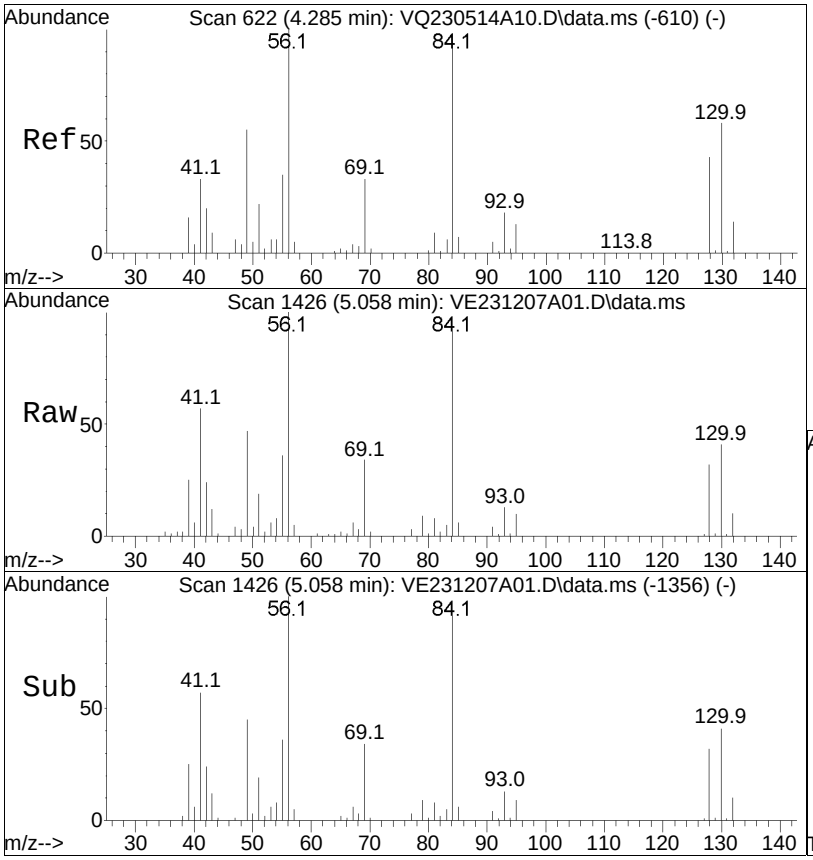


#33
Bromochloromethane
Concen: 11.40 ug/L
RT: 5.052 min Scan# 1424
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:128 Resp: 31217

Ion	Ratio	Lower	Upper
128	100		
49	150.4	143.3	214.9
130	133.0	102.7	154.1

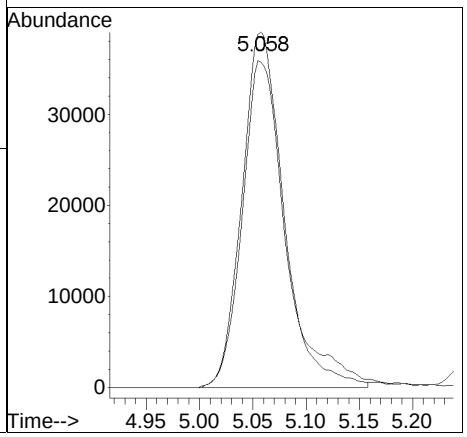


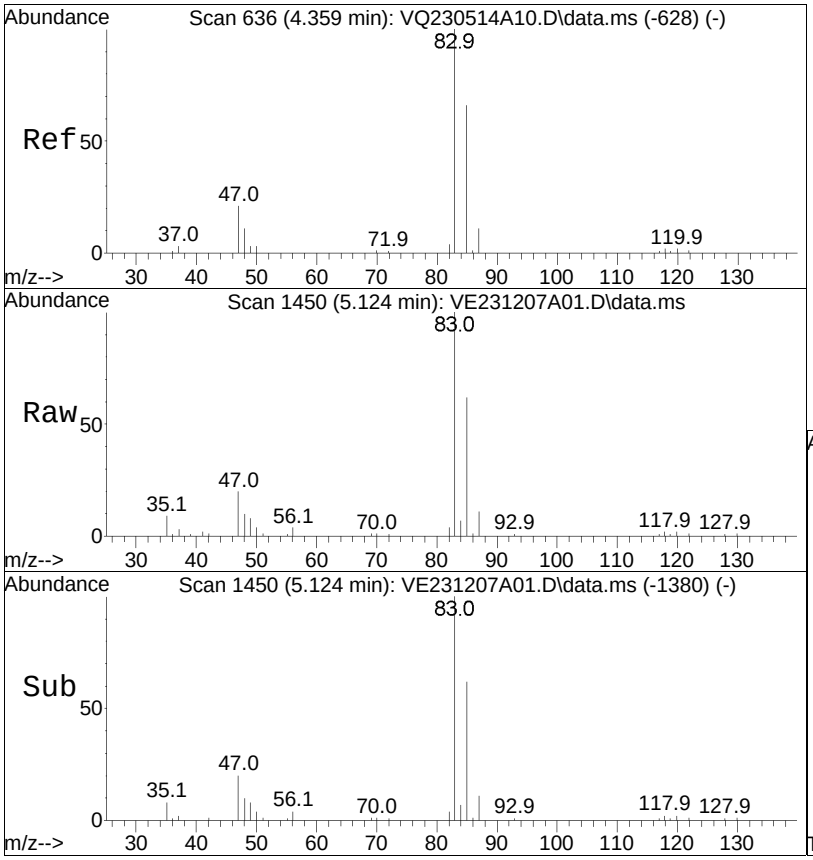


#34
Cyclohexane
Concen: 7.98 ug/L
RT: 5.058 min Scan# 1426
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 56 Resp: 106961

Ion	Ratio	Lower	Upper
56	100		
84	96.7	57.5	119.3

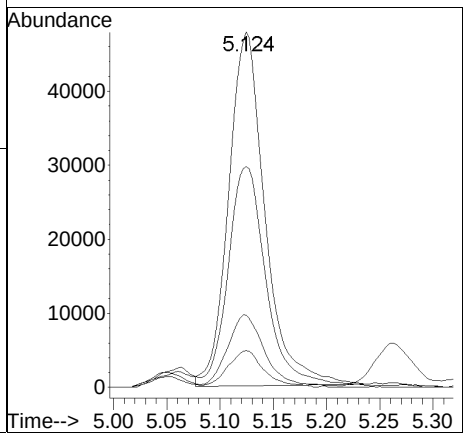


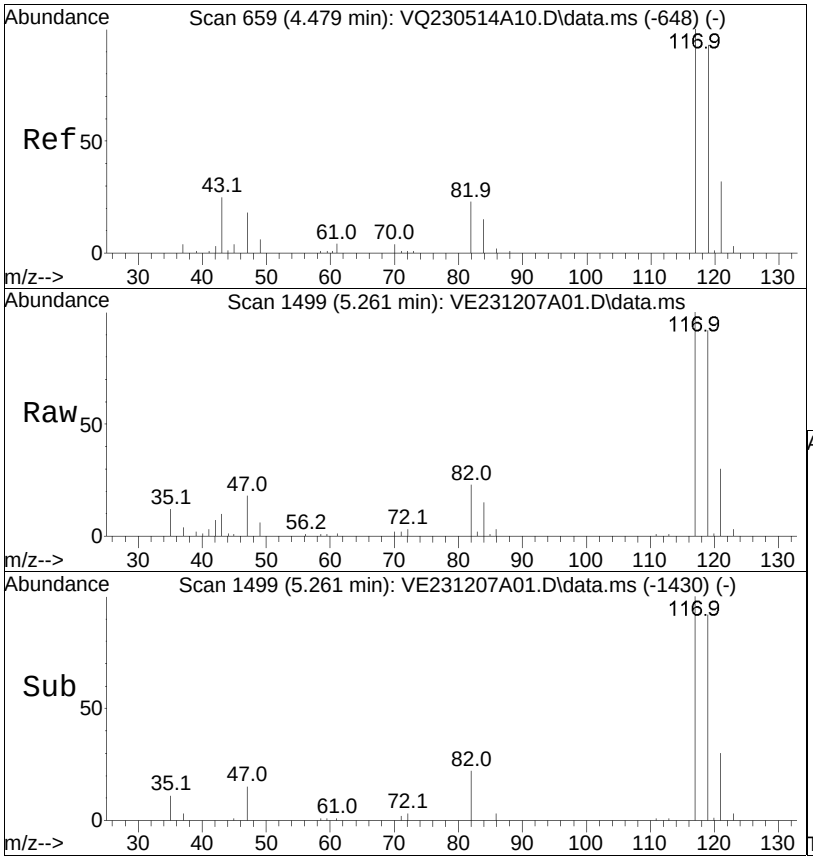


#35
Chloroform
Concen: 11.42 ug/L
RT: 5.124 min Scan# 1450
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 83 Resp: 114003

Ion	Ratio	Lower	Upper
83	100		
85	64.4	43.0	89.2
47	19.9	17.5	36.3
48	10.5	8.8	18.2

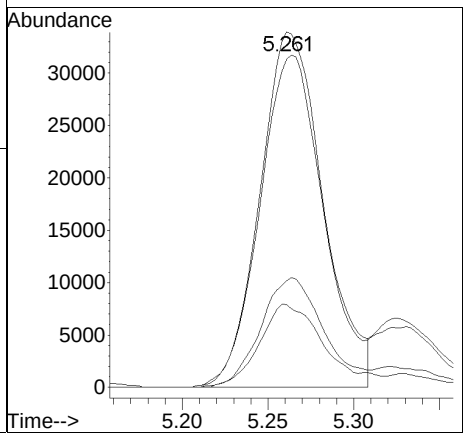


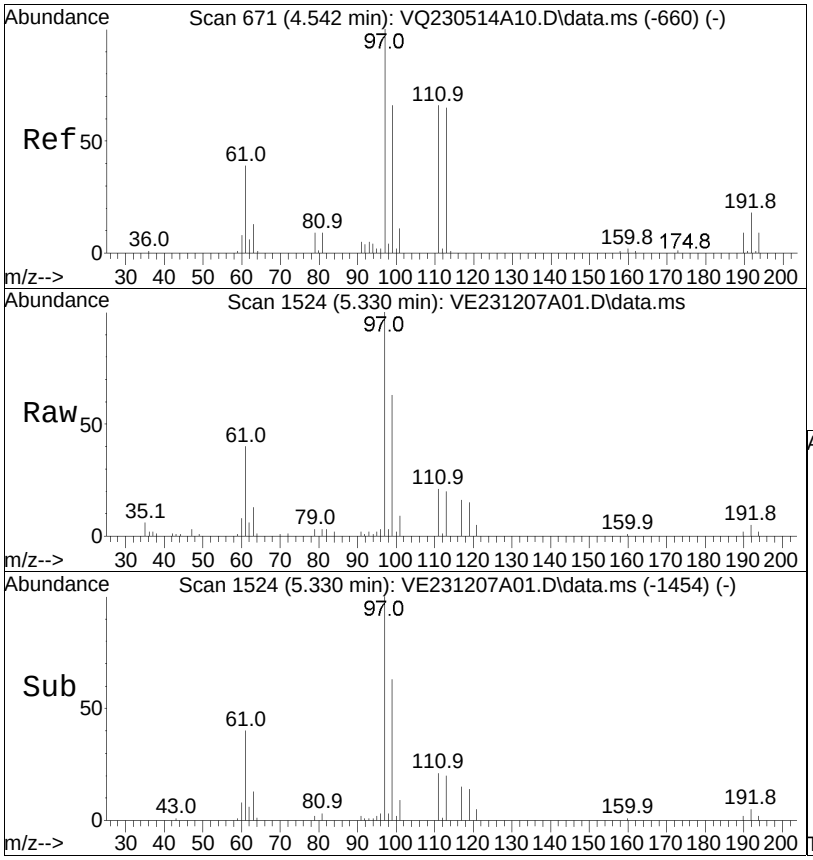


#37
Carbon tetrachloride
Concen: 11.67 ug/L
RT: 5.261 min Scan# 1499
Delta R.T. -0.008 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:117 Resp: 87201

Ion	Ratio	Lower	Upper
117	100		
119	93.3	63.2	131.2
121	30.7	20.3	42.3
82	23.1	18.1	37.7

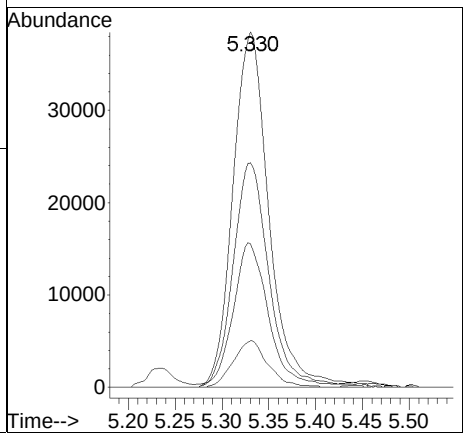


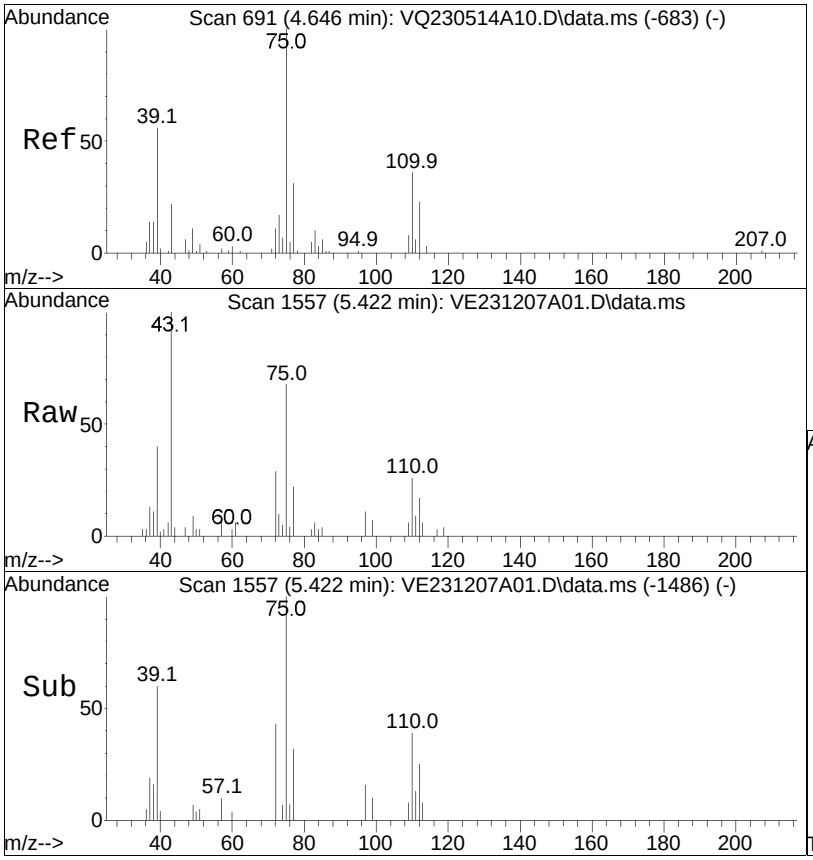


#40
1,1,1-Trichloroethane
Concen: 11.57 ug/L
RT: 5.330 min Scan# 1524
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 97 Resp: 103647

Ion	Ratio	Lower	Upper
97	100		
99	62.7	42.5	88.3
61	38.0	30.4	63.2
63	12.8	9.6	19.8

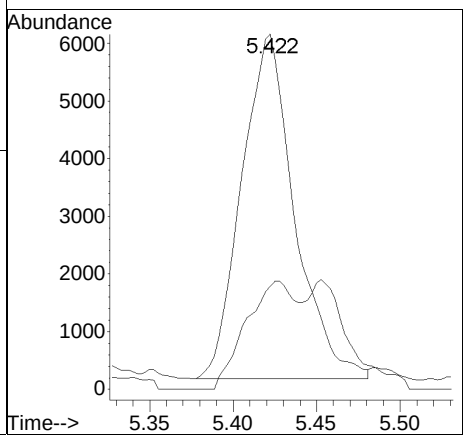


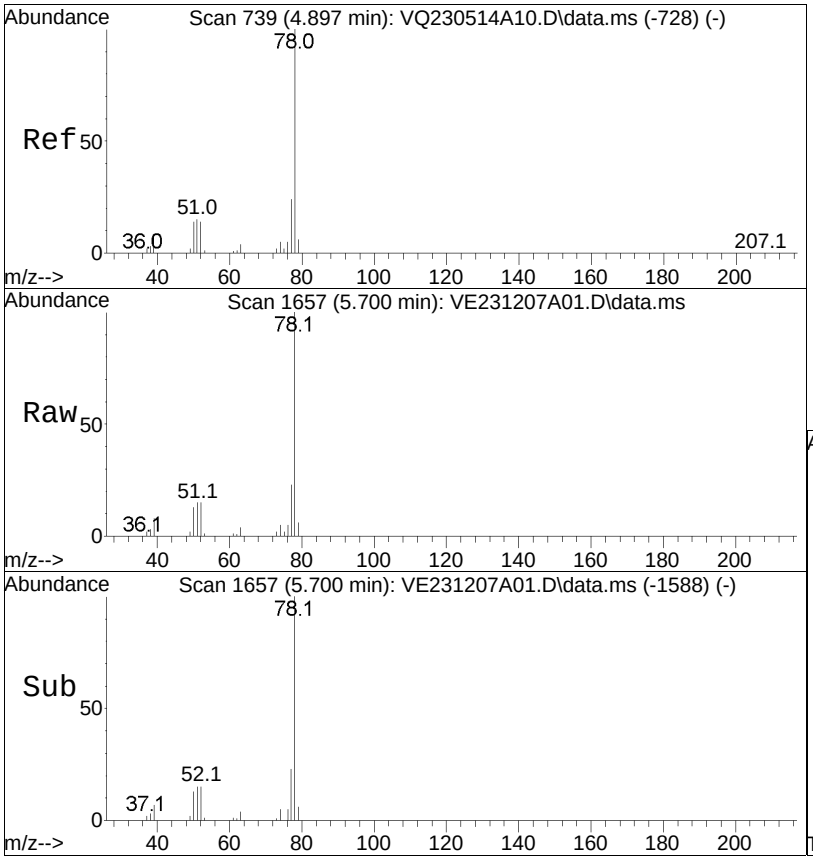


#42
2-Butanone
Concen: 6.29 ug/L
RT: 5.422 min Scan# 1557
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 43 Resp: 13167

Ion	Ratio	Lower	Upper
43	100		
72	28.8	31.2	46.8#

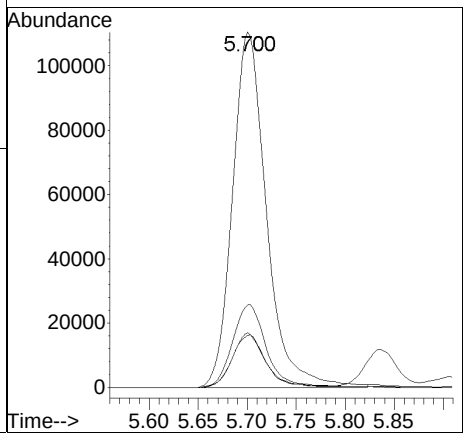


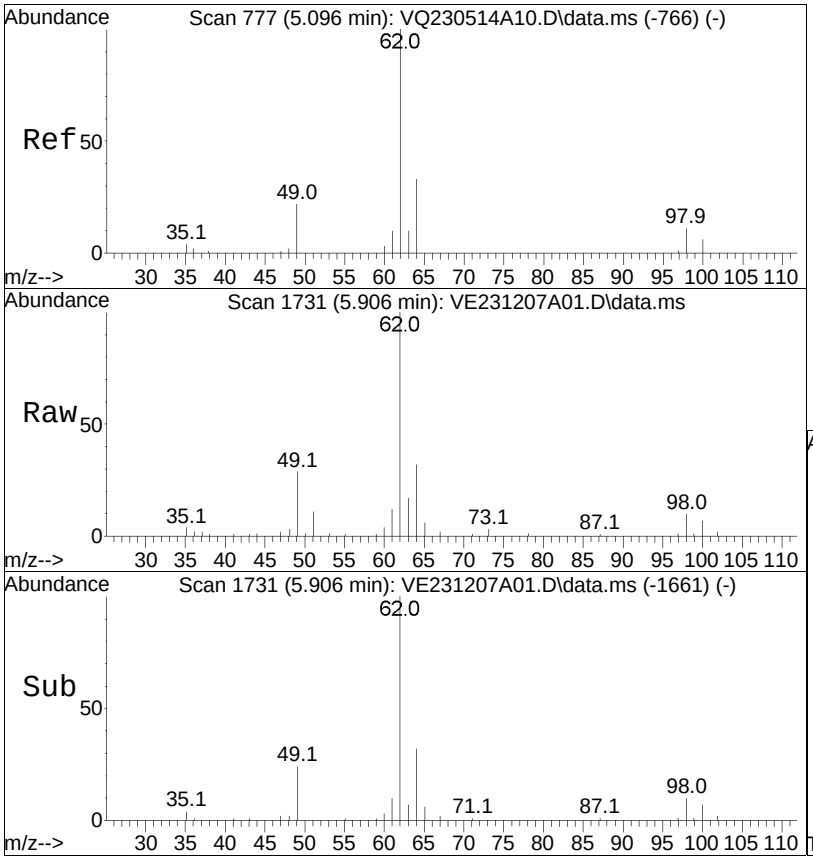


#45
Benzene
Concen: 11.42 ug/L
RT: 5.700 min Scan# 1657
Delta R.T. -0.008 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 78 Resp: 265930

Ion	Ratio	Lower	Upper
78	100		
77	23.2	15.9	33.1
51	14.7	12.3	25.5
52	14.9	11.3	23.5

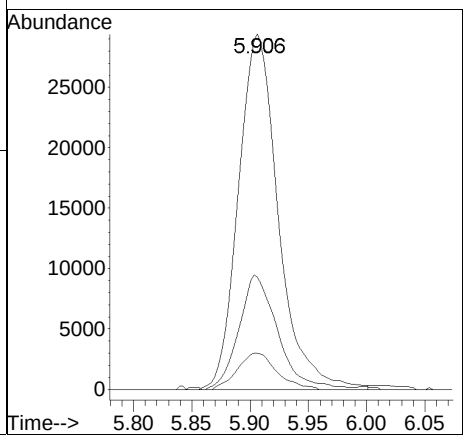


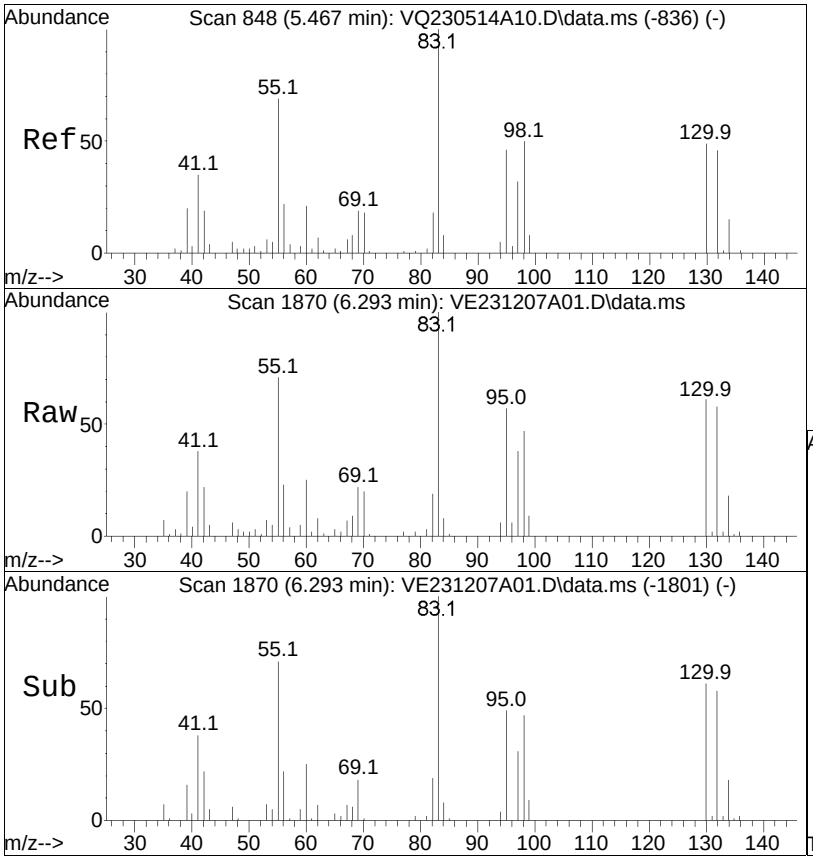


#48
1,2-Dichloroethane
Concen: 9.11 ug/L
RT: 5.906 min Scan# 1731
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 62 Resp: 70198

Ion	Ratio	Lower	Upper
62	100		
64	31.2	12.6	52.6
98	10.1	0.0	28.2

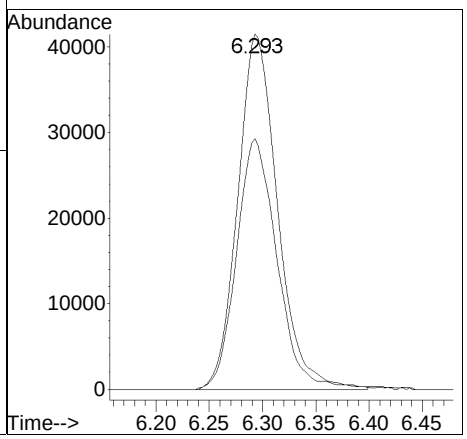


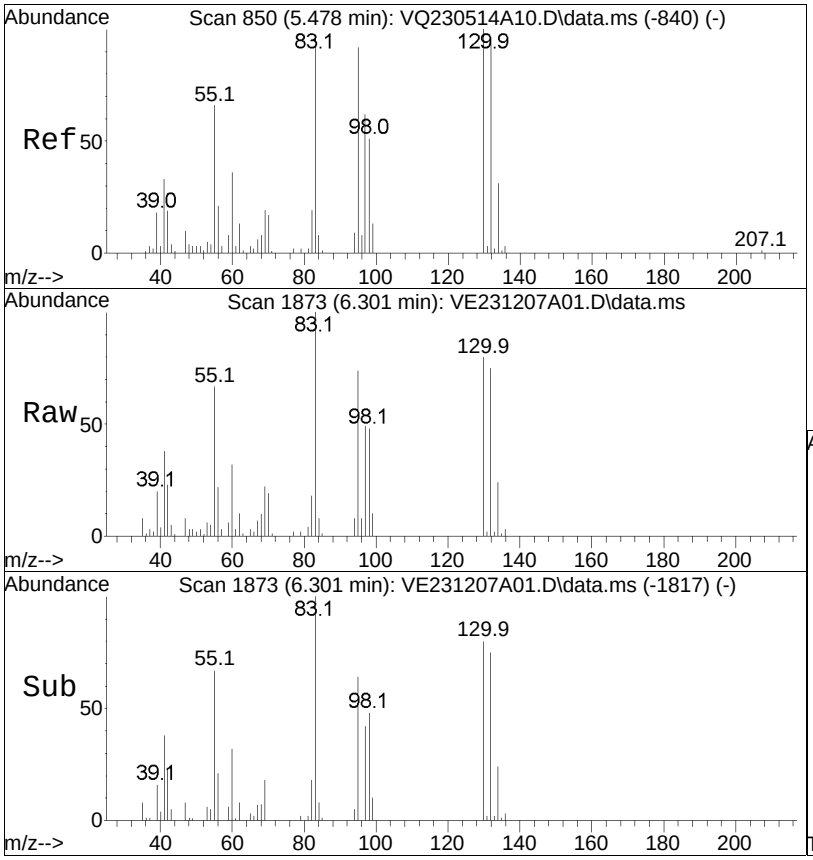


#51
Methyl cyclohexane
Concen: 10.56 ug/L
RT: 6.293 min Scan# 1870
Delta R.T. -0.008 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 83 Resp: 107987

Ion	Ratio	Lower	Upper
83	100		
55	71.8	65.0	97.6

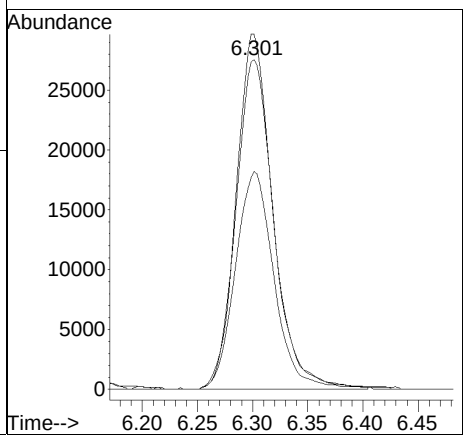


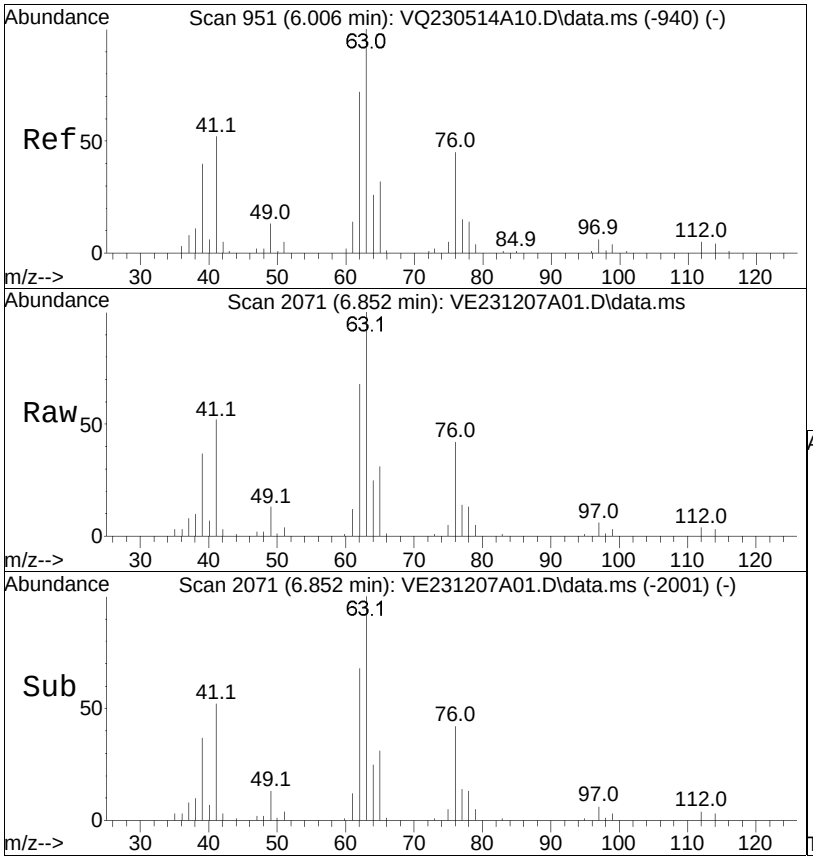


#52
Trichloroethene
Concen: 11.18 ug/L
RT: 6.301 min Scan# 1873
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 95 Resp: 66190

Ion	Ratio	Lower	Upper
95	100		
97	67.0	54.2	81.4
130	104.3	81.8	122.6

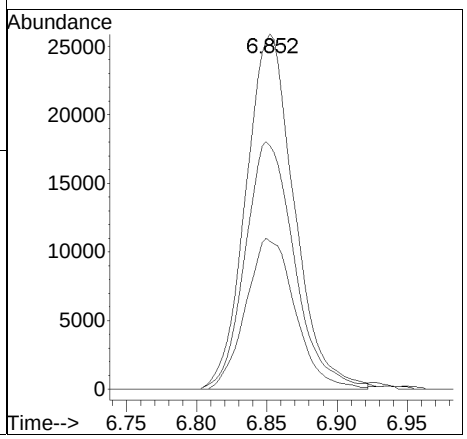


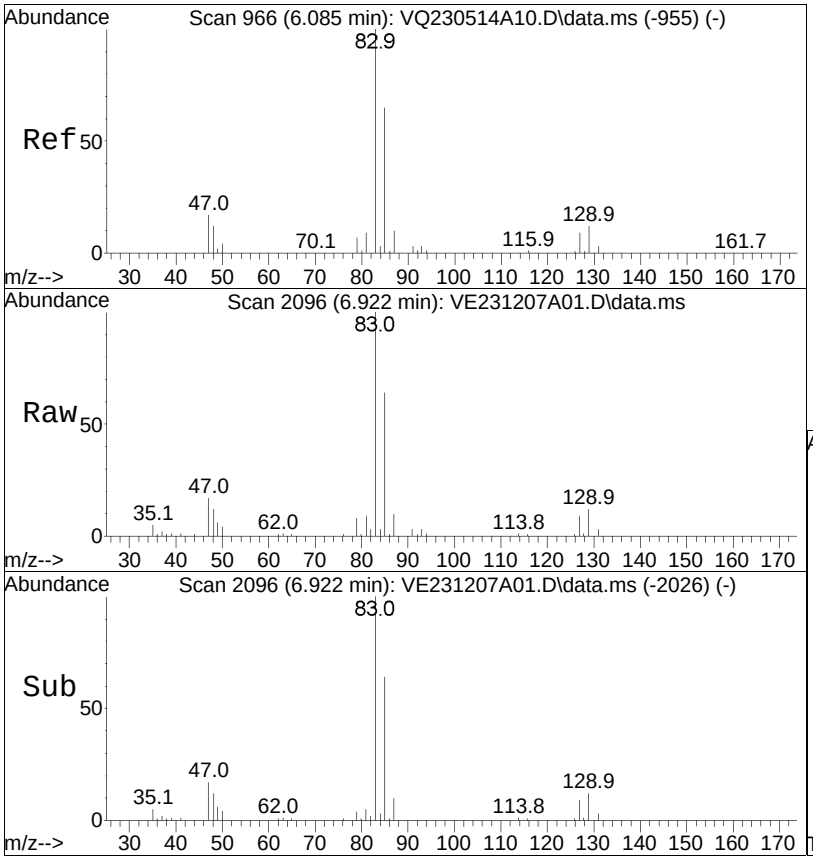


#55
1,2-Dichloropropane
Concen: 9.24 ug/L
RT: 6.852 min Scan# 2071
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 63 Resp: 62176

Ion	Ratio	Lower	Upper
63	100		
62	71.1	57.6	86.4
76	43.4	38.5	57.7

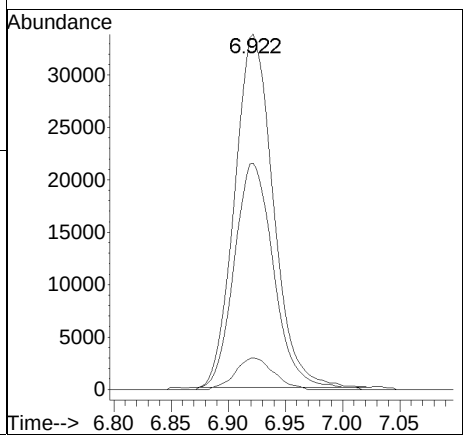


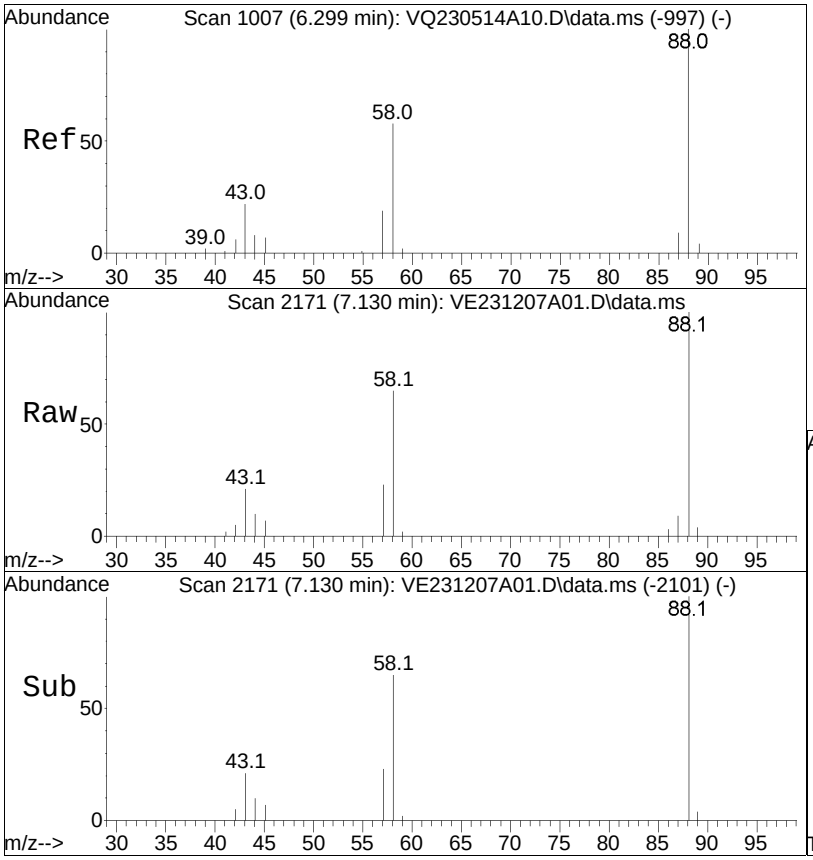


#58
Bromodichloromethane
Concen: 10.60 ug/L
RT: 6.922 min Scan# 2096
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 83 Resp: 79337

Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.4	77.2
127	8.8	6.9	10.3

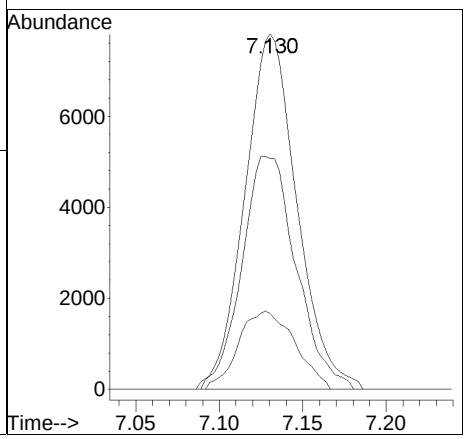


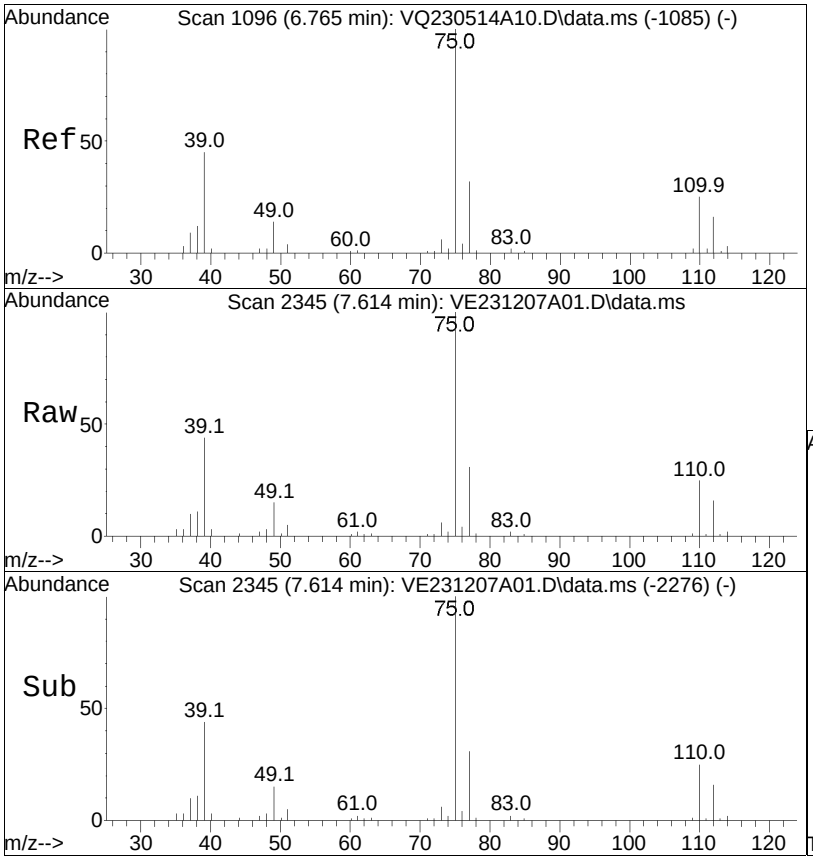


#61
1,4-Dioxane
Concen: 488.84 ug/L
RT: 7.130 min Scan# 2171
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 88 Resp: 16993

Ion	Ratio	Lower	Upper
88	100		
58	68.5	59.1	88.7
43	23.8	30.0	45.0#

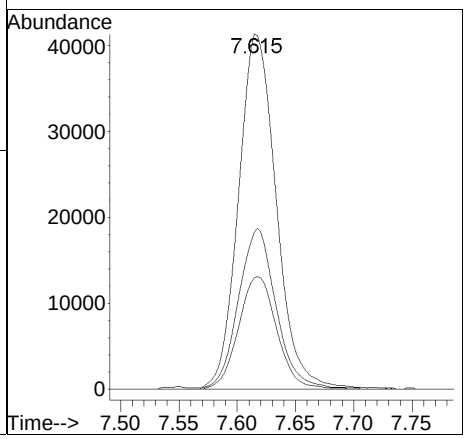


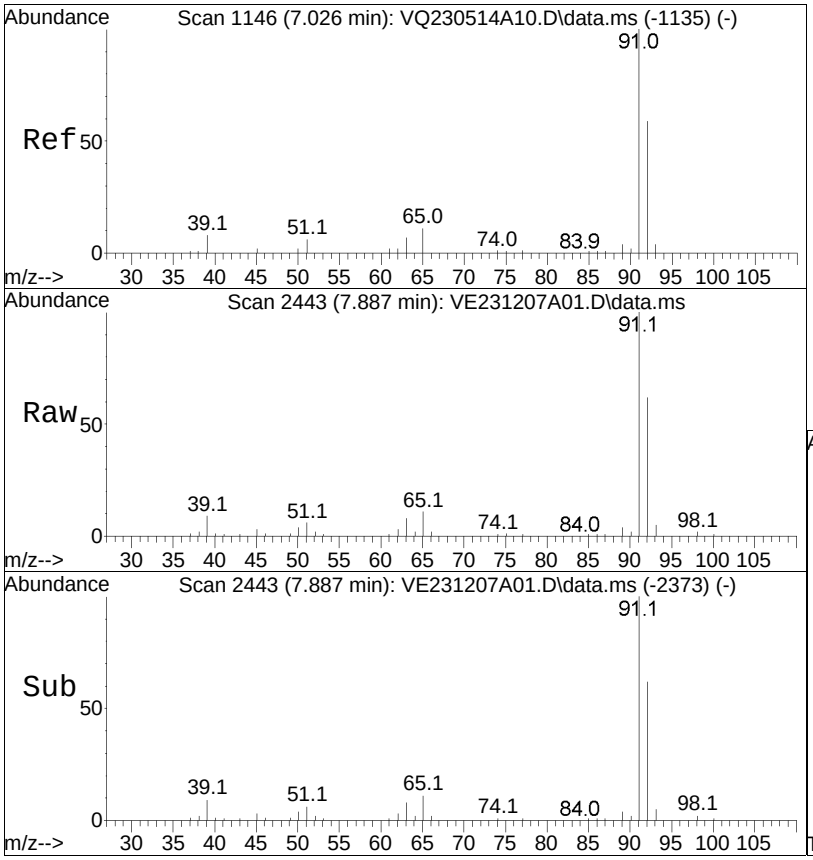


#62
cis-1,3-Dichloropropene
Concen: 10.52 ug/L
RT: 7.614 min Scan# 2345
Delta R.T. -0.008 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 75 Resp: 93522

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.0	37.6
39	43.9	50.6	75.8#

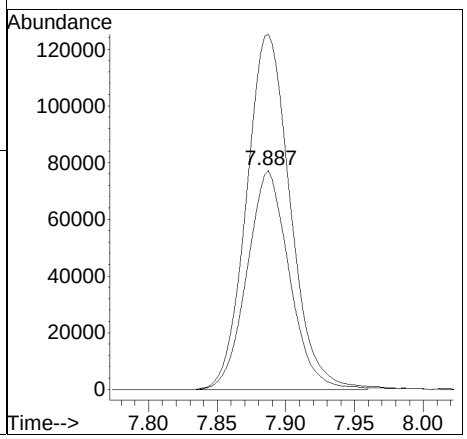


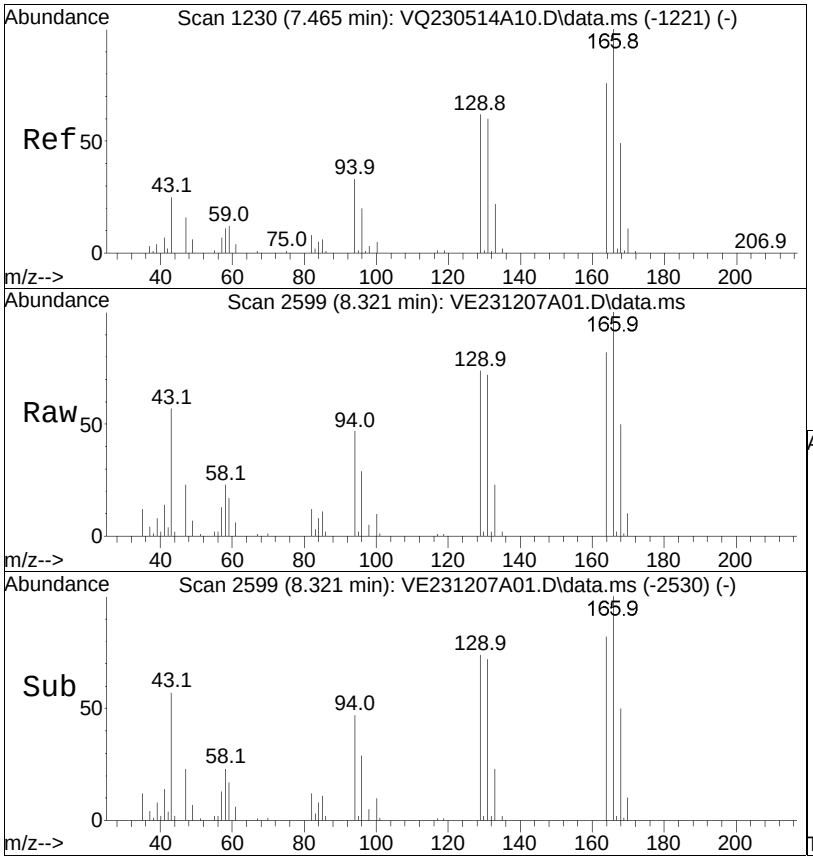


#65
Toluene
Concen: 11.17 ug/L
RT: 7.887 min Scan# 2443
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 92 Resp: 165113

Ion	Ratio	Lower	Upper
92	100		
91	168.5	135.9	203.9

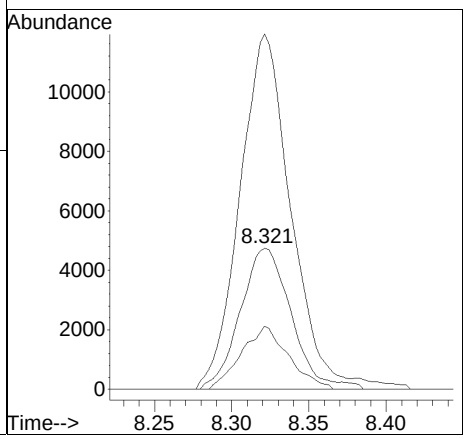


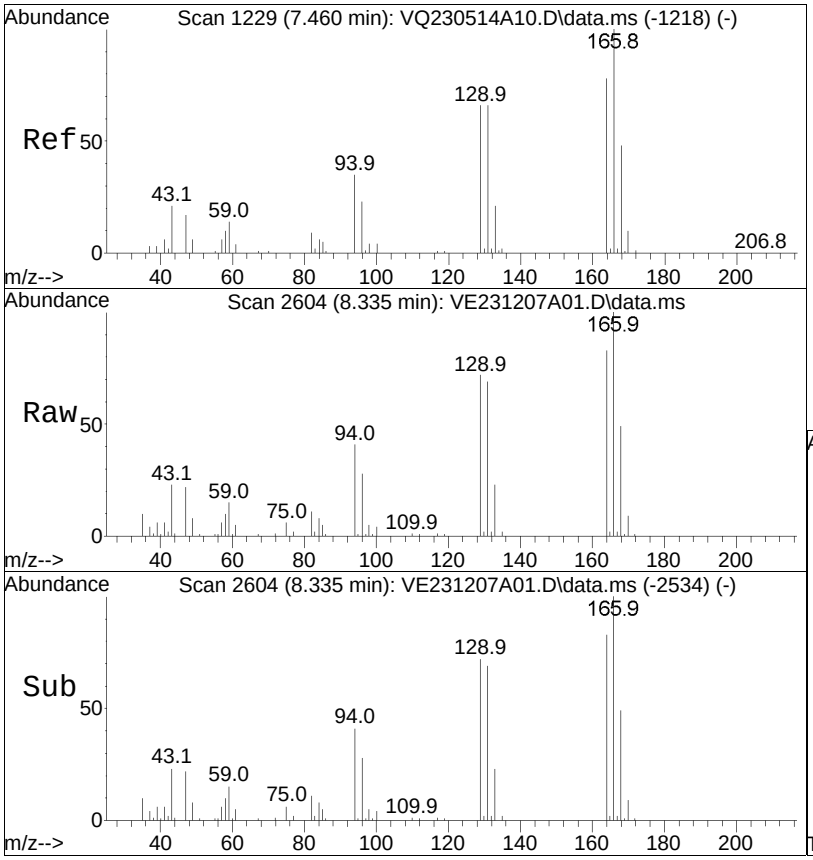


#66
4-Methyl-2-pentanone
Concen: 6.51 ug/L
RT: 8.321 min Scan# 2599
Delta R.T. -0.008 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 58 Resp: 10904

Ion	Ratio	Lower	Upper
58	100		
100	41.6	30.1	45.1
43	248.7	226.7	340.1

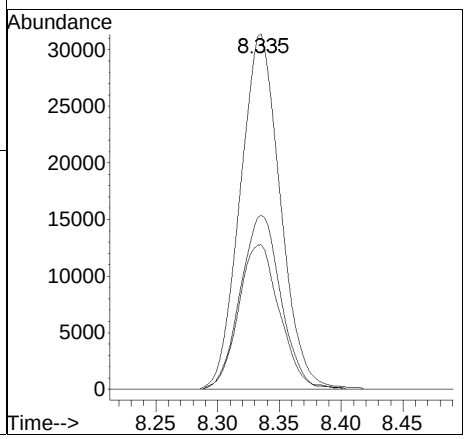


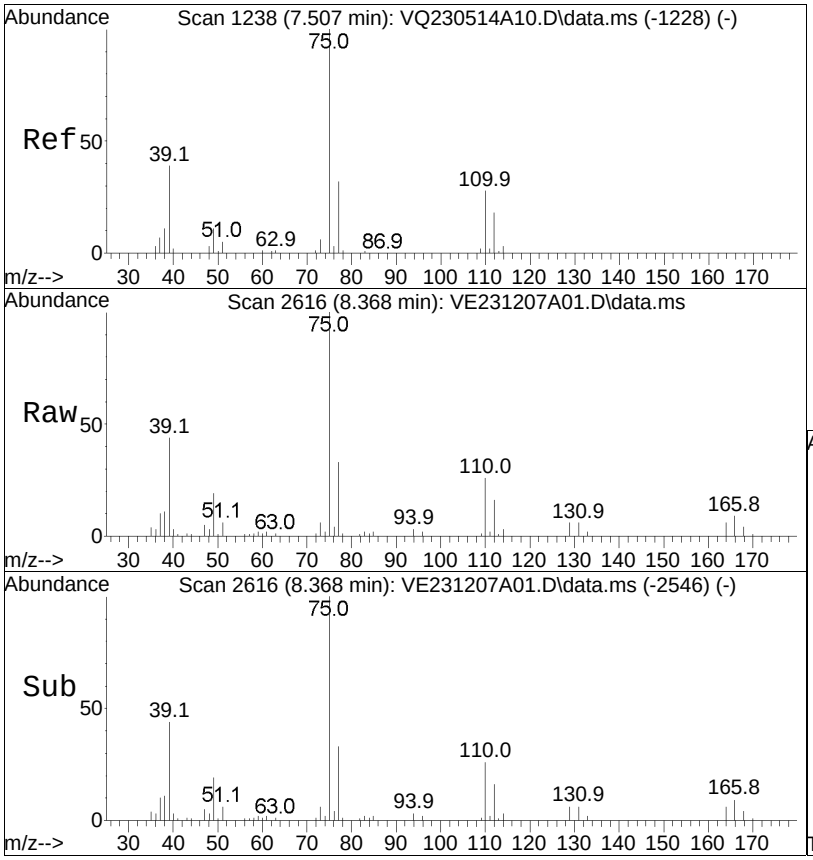


#67
Tetrachloroethene
Concen: 10.70 ug/L
RT: 8.335 min Scan# 2604
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:166 Resp: 71025

Ion	Ratio	Lower	Upper
166	100		
168	49.5	28.0	68.0
94	41.8	27.8	67.8

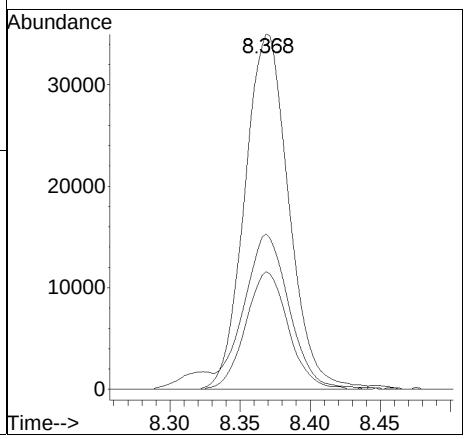


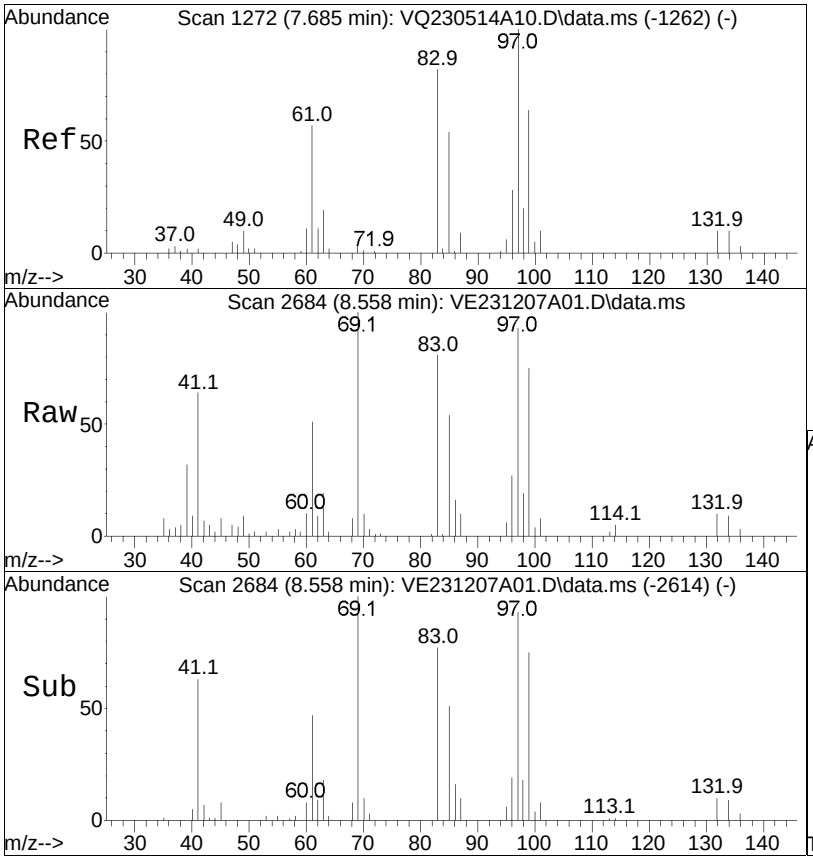


#69
trans-1,3-Dichloropropene
Concen: 10.24 ug/L
RT: 8.368 min Scan# 2616
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 75 Resp: 76600

Ion	Ratio	Lower	Upper
75	100		
77	32.1	11.4	51.4
39	43.7	44.3	84.3#

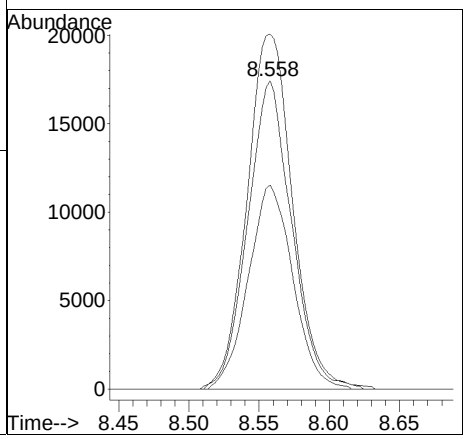


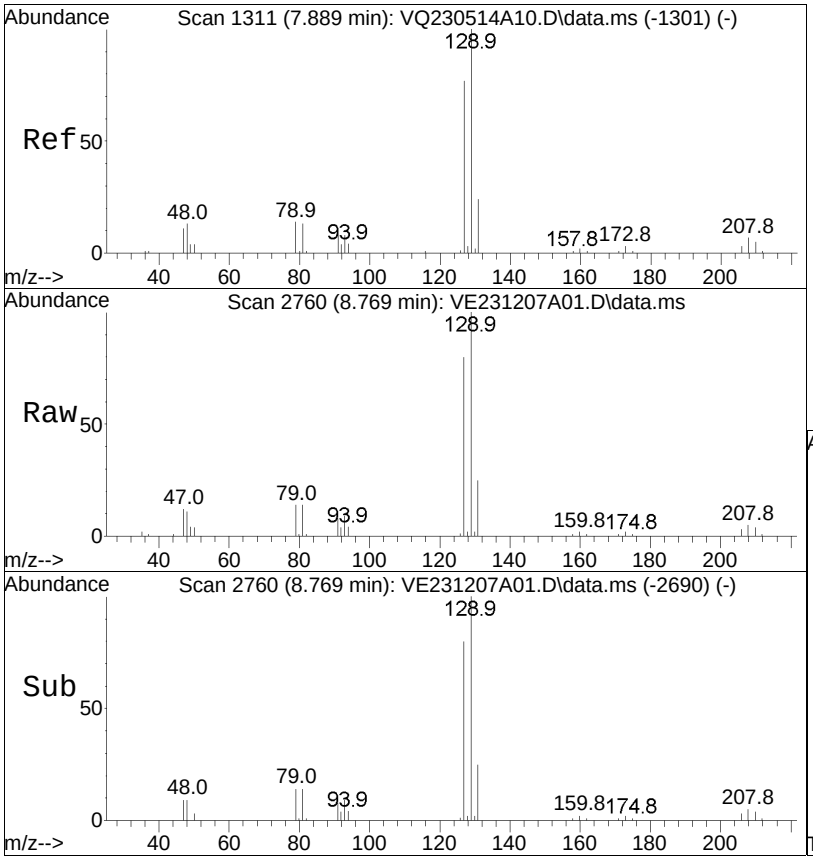


#72
1,1,2-Trichloroethane
Concen: 10.13 ug/L
RT: 8.558 min Scan# 2684
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 83 Resp: 38069

Ion	Ratio	Lower	Upper
83	100		
97	119.8	99.2	139.2
85	67.3	48.7	88.7

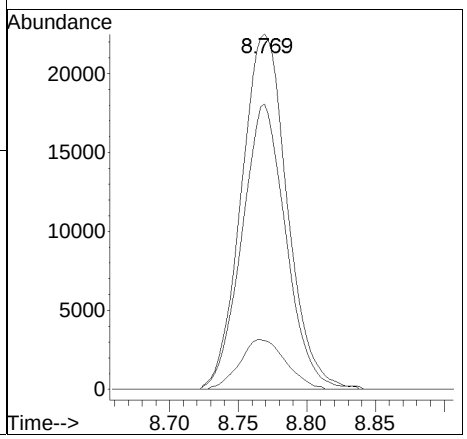


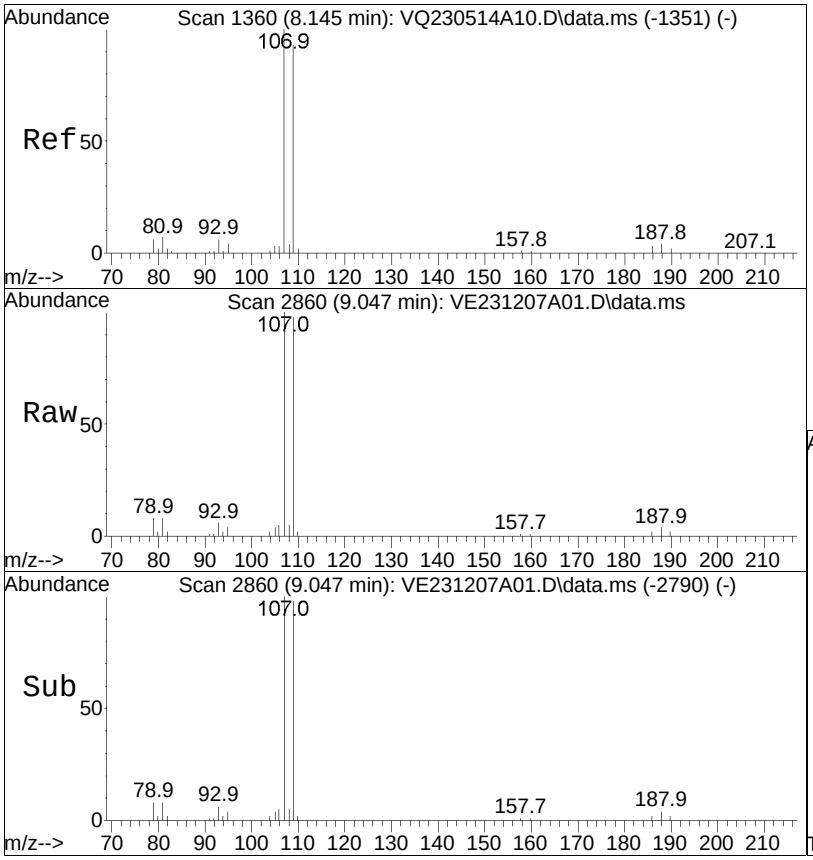


#73
Chlorodibromomethane
Concen: 9.90 ug/L
RT: 8.769 min Scan# 2760
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:129 Resp: 52491

Ion	Ratio	Lower	Upper
129	100		
81	14.2	0.0	36.2
127	76.9	58.0	98.0

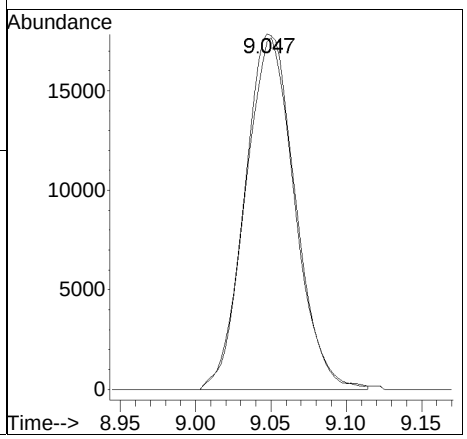


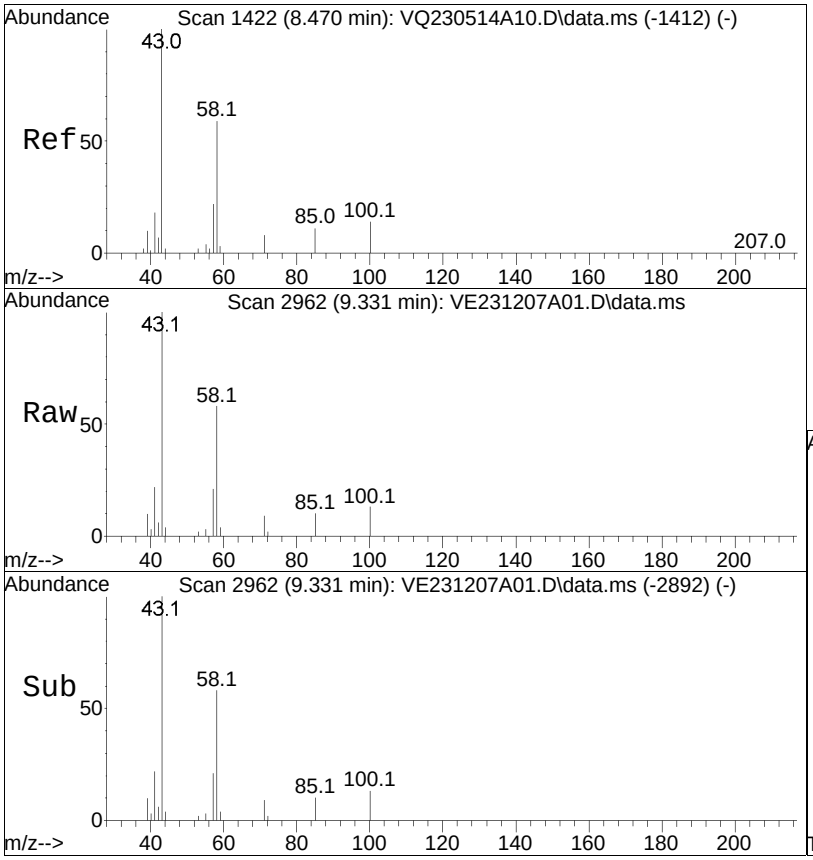


#75
1,2-Dibromoethane
Concen: 9.66 ug/L
RT: 9.047 min Scan# 2860
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:107 Resp: 41741

Ion	Ratio	Lower	Upper
107	100		
109	95.9	75.7	113.5

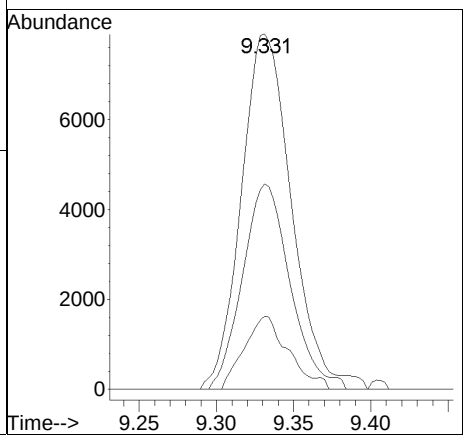


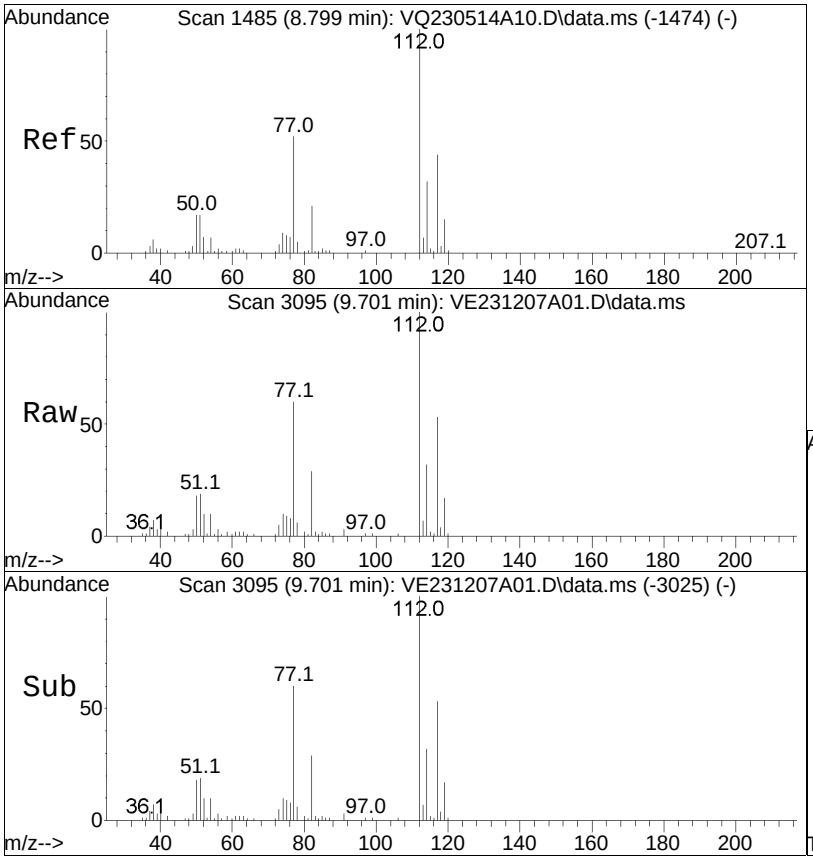


#77
2-Hexanone
Concen: 6.02 ug/L
RT: 9.331 min Scan# 2962
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 43 Resp: 17929

Ion	Ratio	Lower	Upper
43	100		
58	54.7	38.2	57.4
57	18.0	14.1	21.1

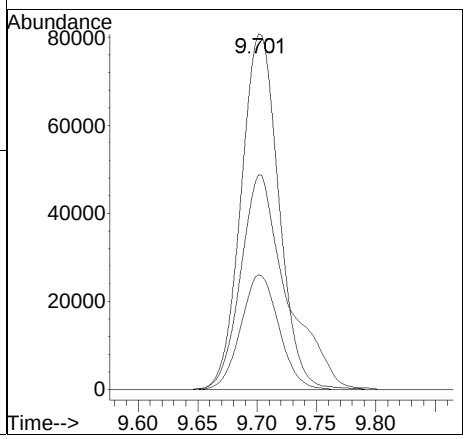


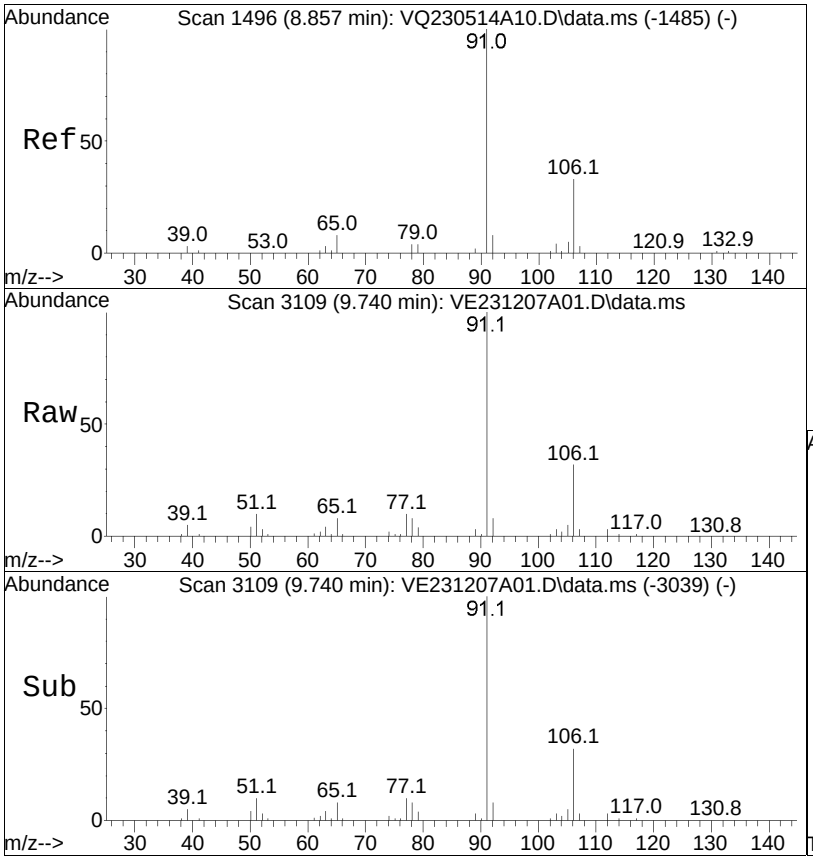


#78
Chlorobenzene
Concen: 11.00 ug/L
RT: 9.701 min Scan# 3095
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:112 Resp: 177987

Ion	Ratio	Lower	Upper
112	100		
77	74.6	50.7	76.1
114	32.6	25.6	38.4

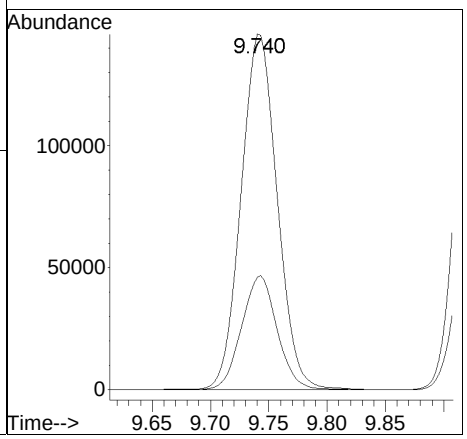


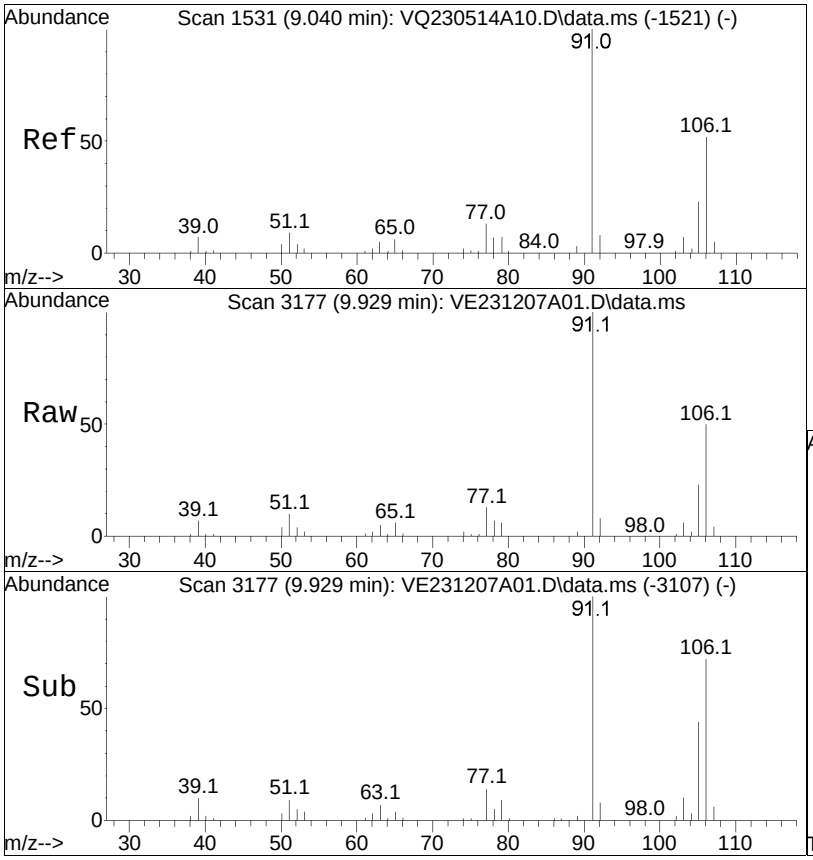


#79
Ethylbenzene
Concen: 11.04 ug/L
RT: 9.740 min Scan# 3109
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 91 Resp: 313310

Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.6	36.8

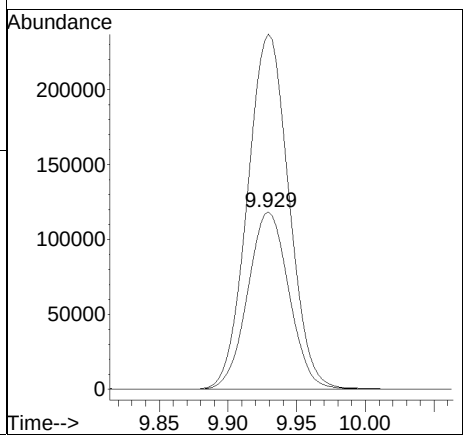


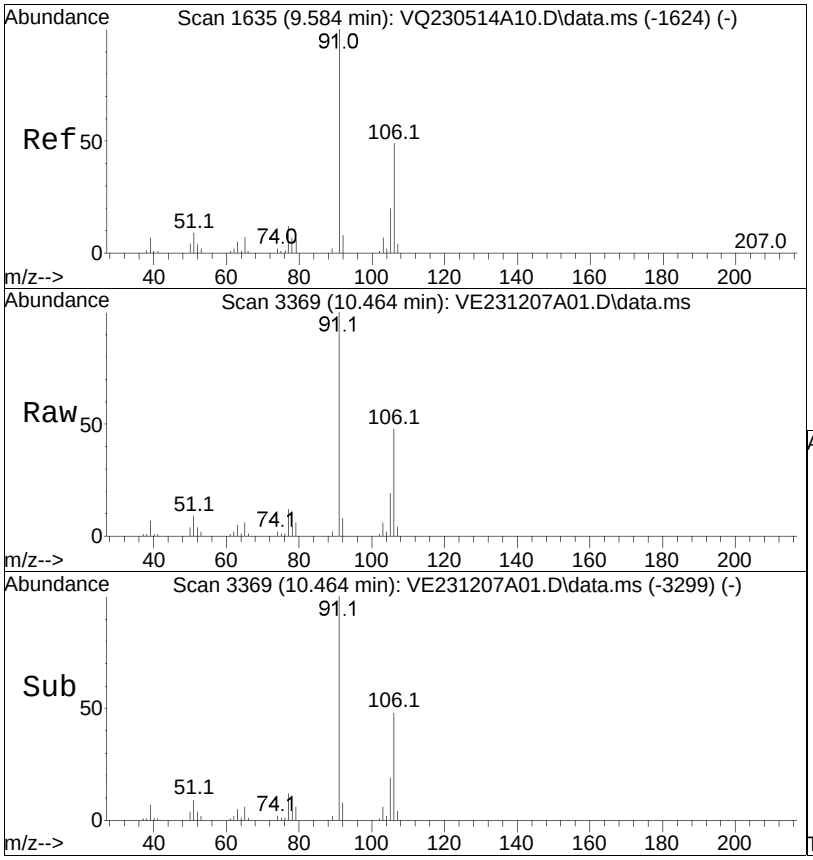


#81
p/m Xylene
Concen: 22.89 ug/L
RT: 9.929 min Scan# 3177
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:106 Resp: 248261

Ion	Ratio	Lower	Upper
106	100		
91	200.6	165.5	248.3

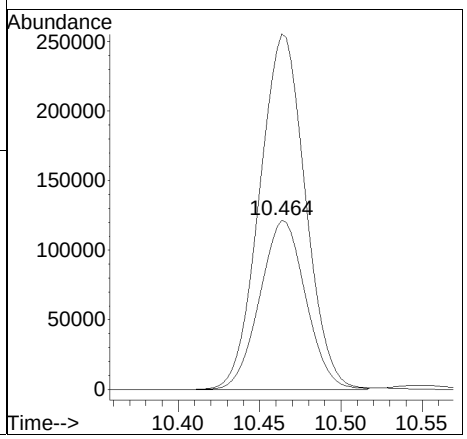


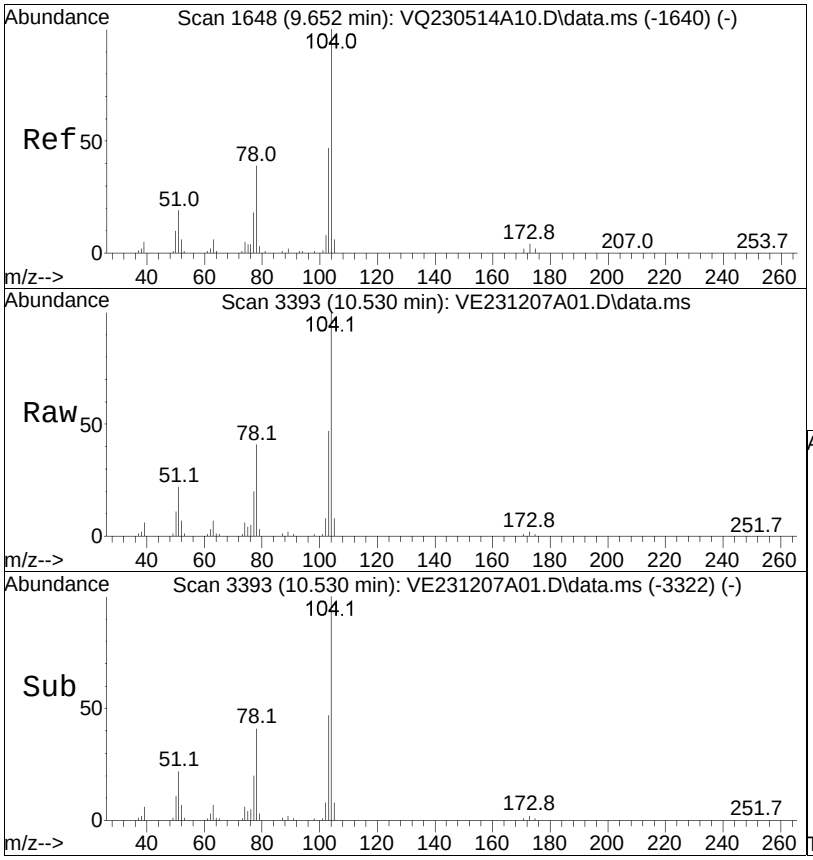


#82
o Xylene
Concen: 22.76 ug/L
RT: 10.464 min Scan# 3369
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:106 Resp: 238178

Ion	Ratio	Lower	Upper
106	100		
91	210.3	176.5	264.7

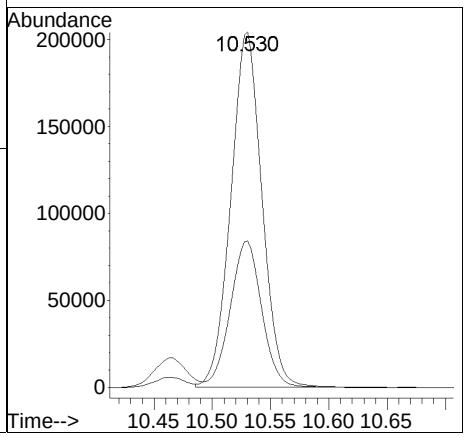


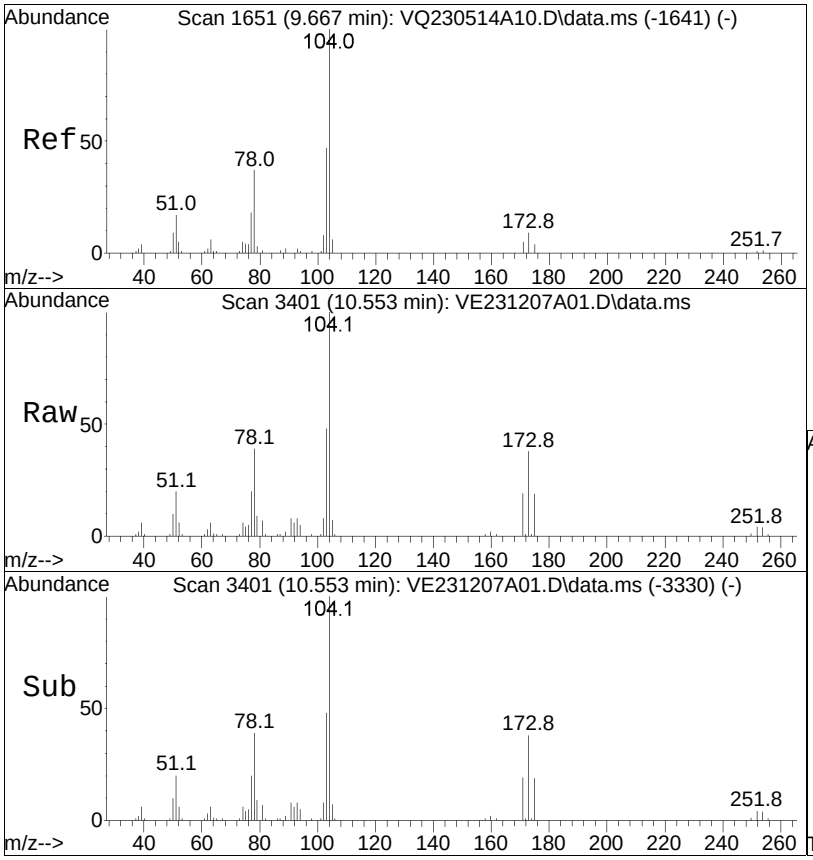


#83
Styrene
Concen: 22.85 ug/L
RT: 10.530 min Scan# 3393
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:104 Resp: 378989

Ion	Ratio	Lower	Upper
104	100		
78	41.8	37.5	56.3

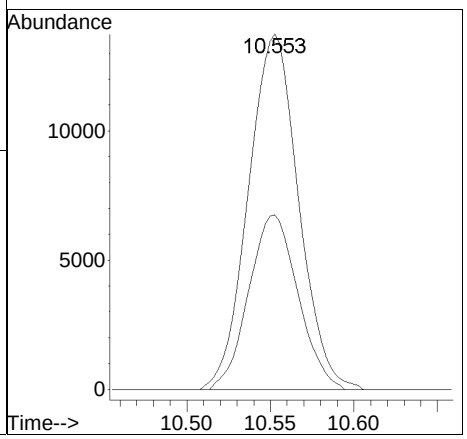


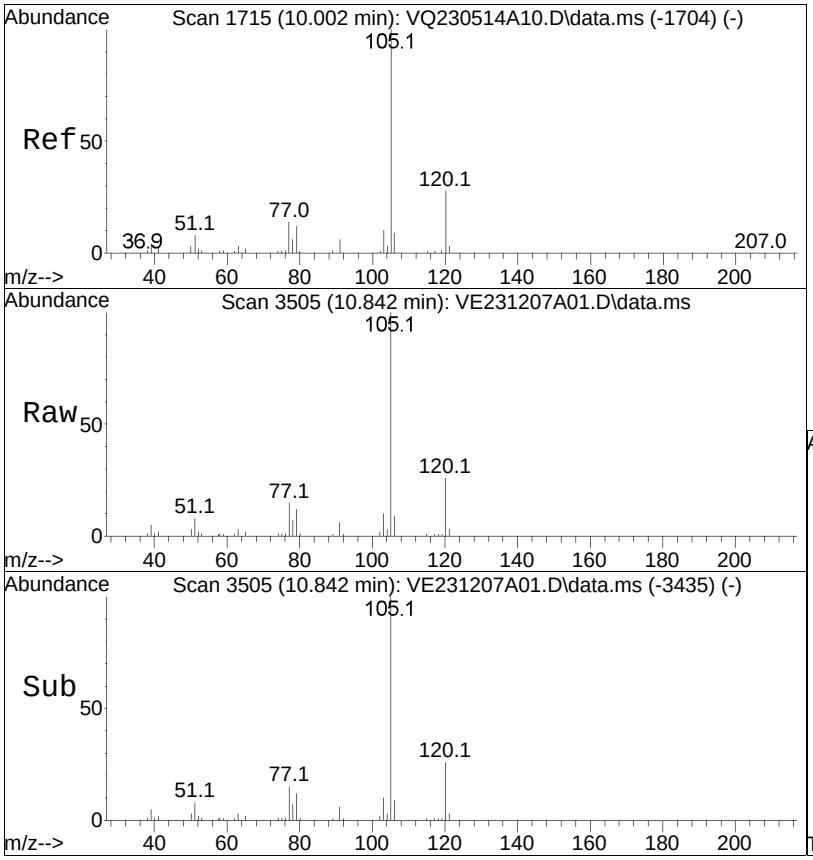


#85
Bromoform
Concen: 9.00 ug/L
RT: 10.553 min Scan# 3401
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:173 Resp: 28745

Ion	Ratio	Lower	Upper
173	100		
175	48.2	29.0	69.0

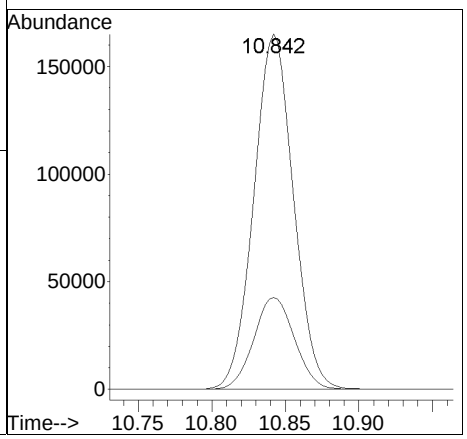


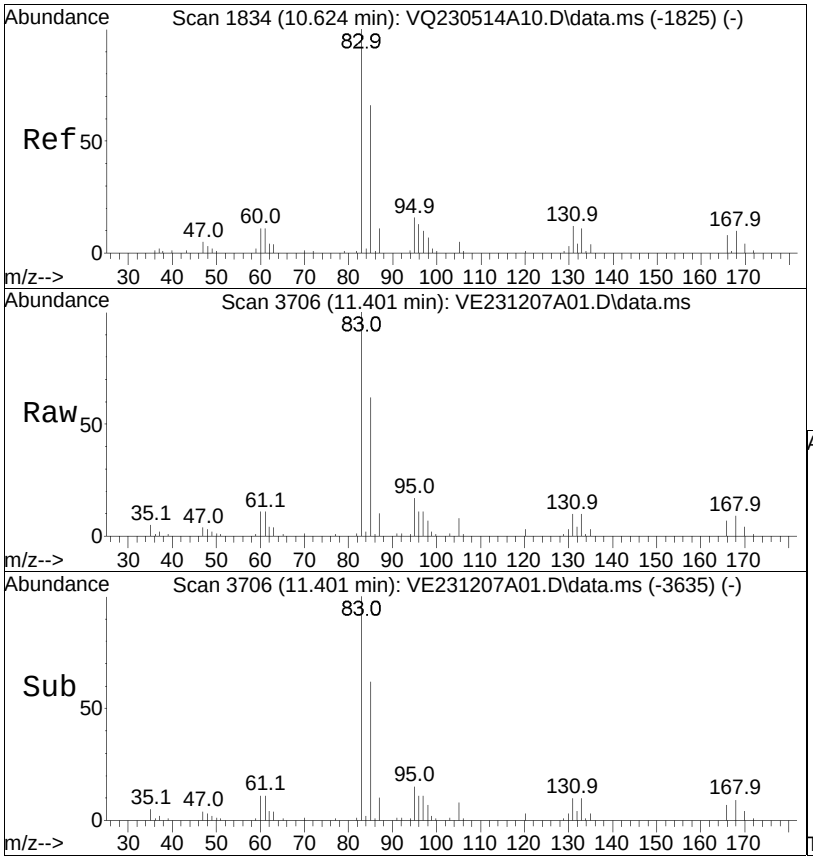


#87
Isopropylbenzene
Concen: 10.44 ug/L
RT: 10.842 min Scan# 3505
Delta R.T. -0.006 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:105 Resp: 309291

Ion	Ratio	Lower	Upper
105	100		
120	26.6	6.5	46.5

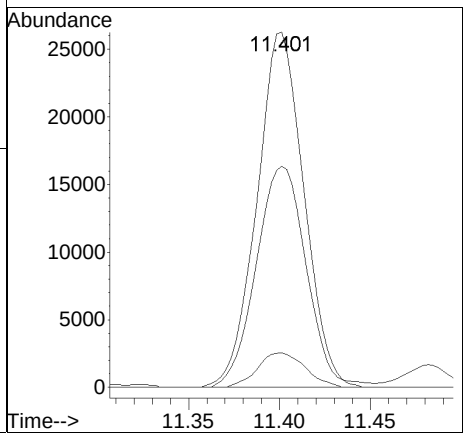


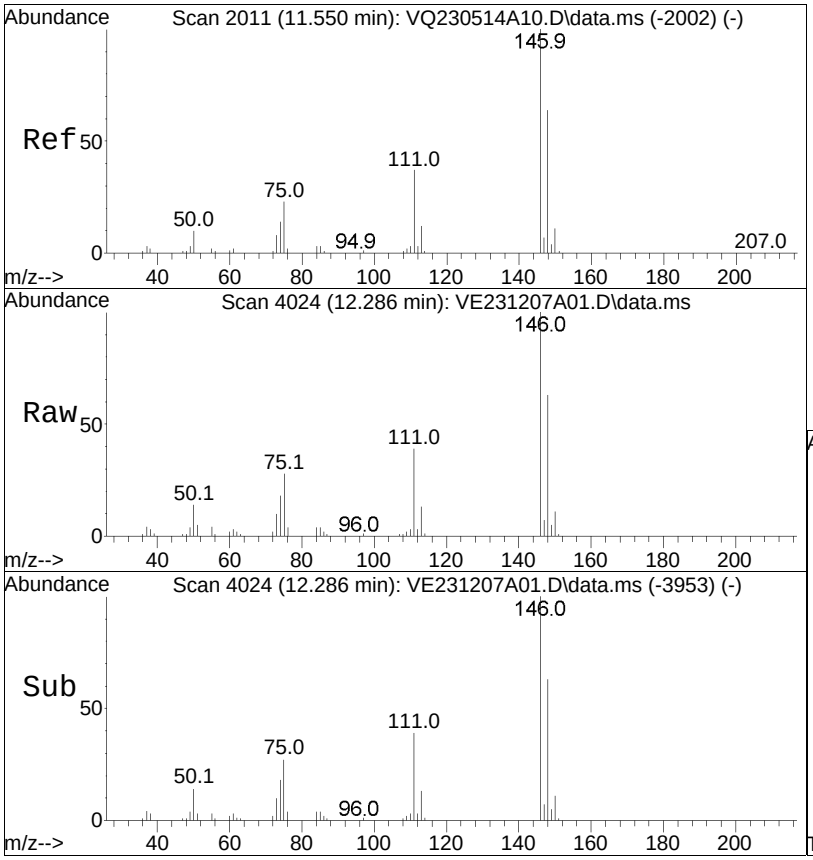


#92
1,1,2,2-Tetrachloroethane
Concen: 10.06 ug/L
RT: 11.401 min Scan# 3706
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion: 83 Resp: 47267

Ion	Ratio	Lower	Upper
83	100		
131	9.9	0.0	31.0
85	66.3	45.4	85.4

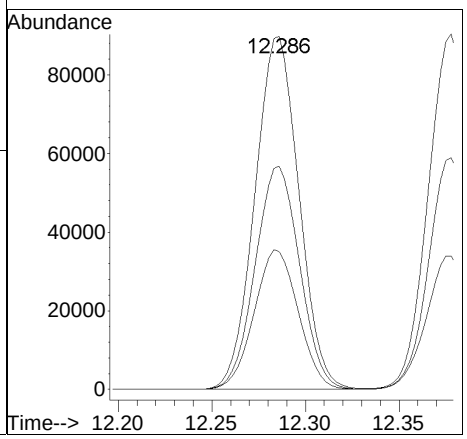


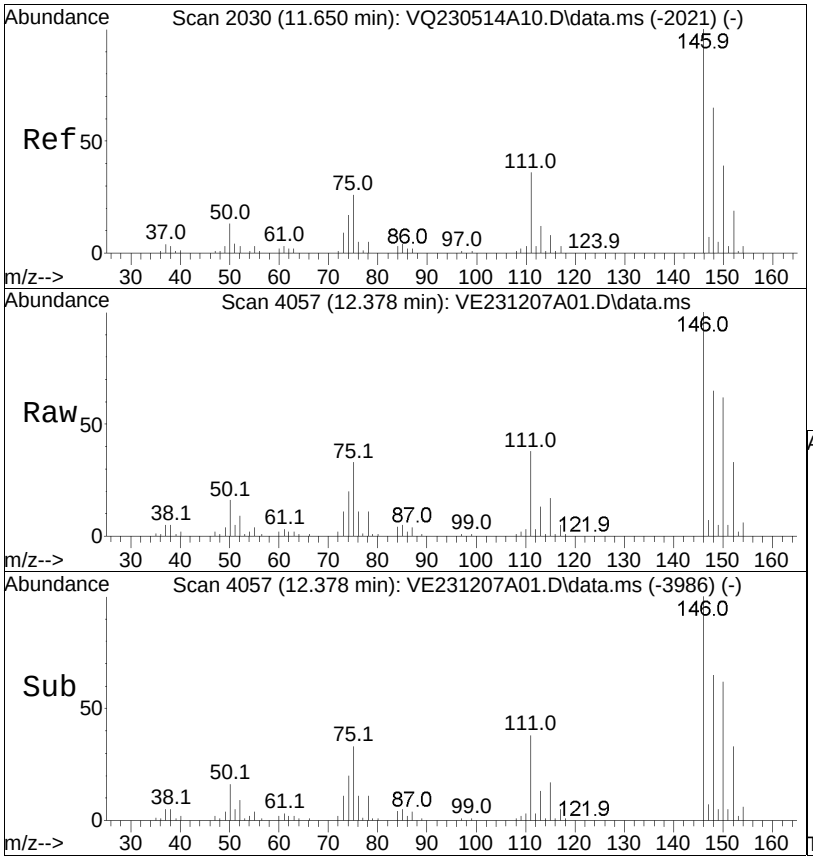


#105
1,3-Dichlorobenzene
Concen: 10.53 ug/L
RT: 12.286 min Scan# 4024
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:146 Resp: 147181

Ion	Ratio	Lower	Upper
146	100		
111	39.6	27.0	56.0
148	63.7	41.2	85.6

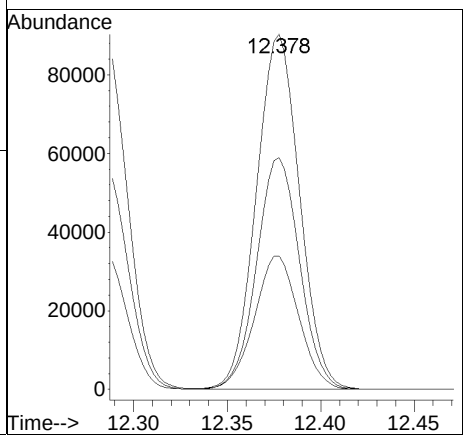


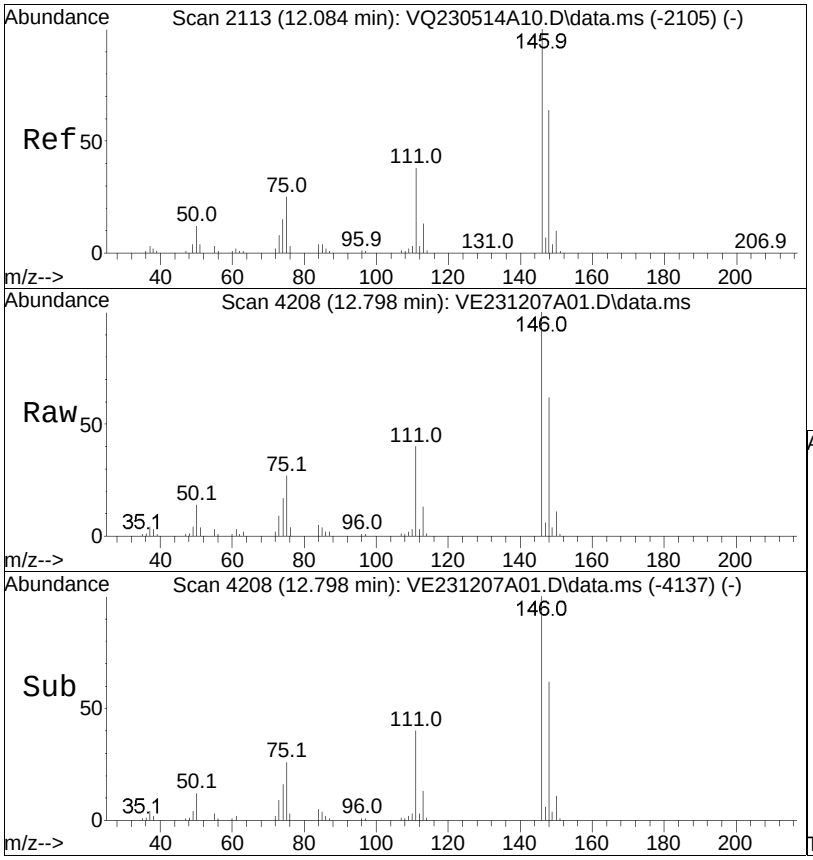


#106
1,4-Dichlorobenzene
Concen: 10.39 ug/L
RT: 12.378 min Scan# 4057
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:146 Resp: 145545

Ion	Ratio	Lower	Upper
146	100		
111	38.6	32.3	48.5
148	64.9	51.0	76.6

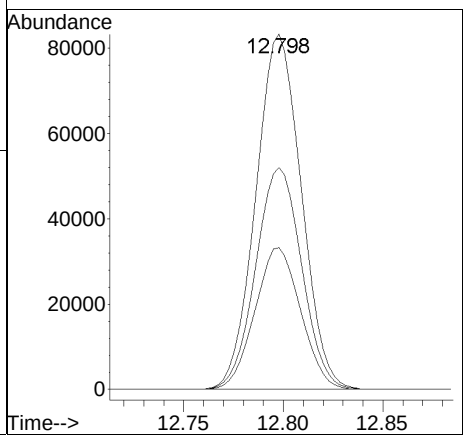


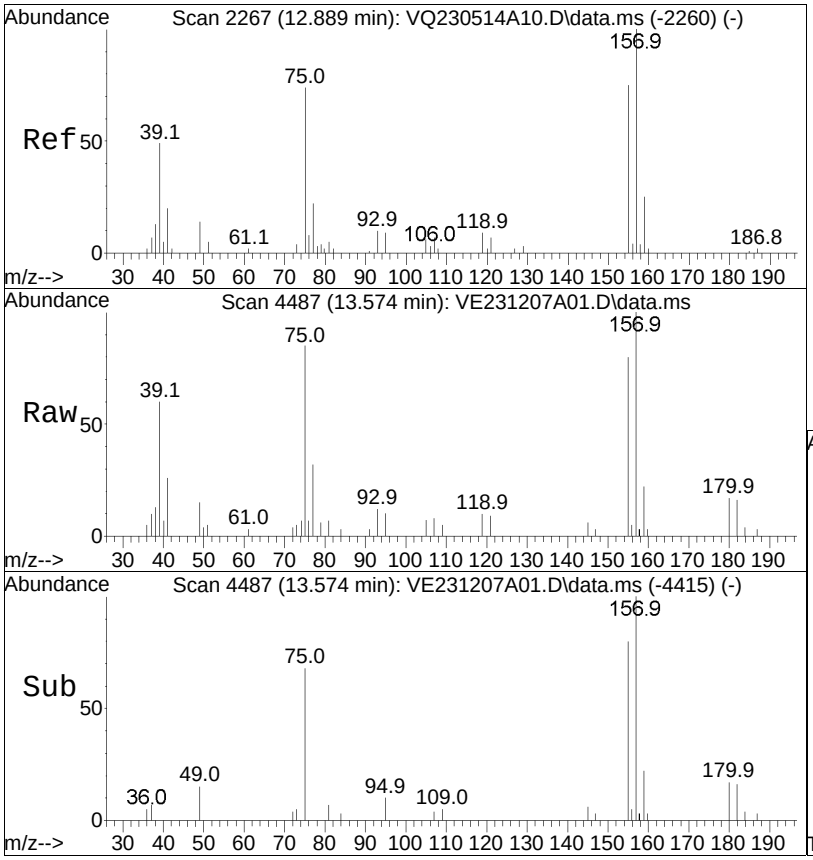


#109
1,2-Dichlorobenzene
Concen: 10.22 ug/L
RT: 12.798 min Scan# 4208
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:146 Resp: 132546

Ion	Ratio	Lower	Upper
146	100		
111	40.1	27.7	57.5
148	63.0	41.3	85.7

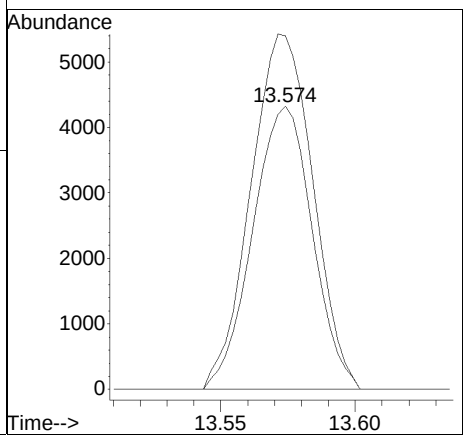


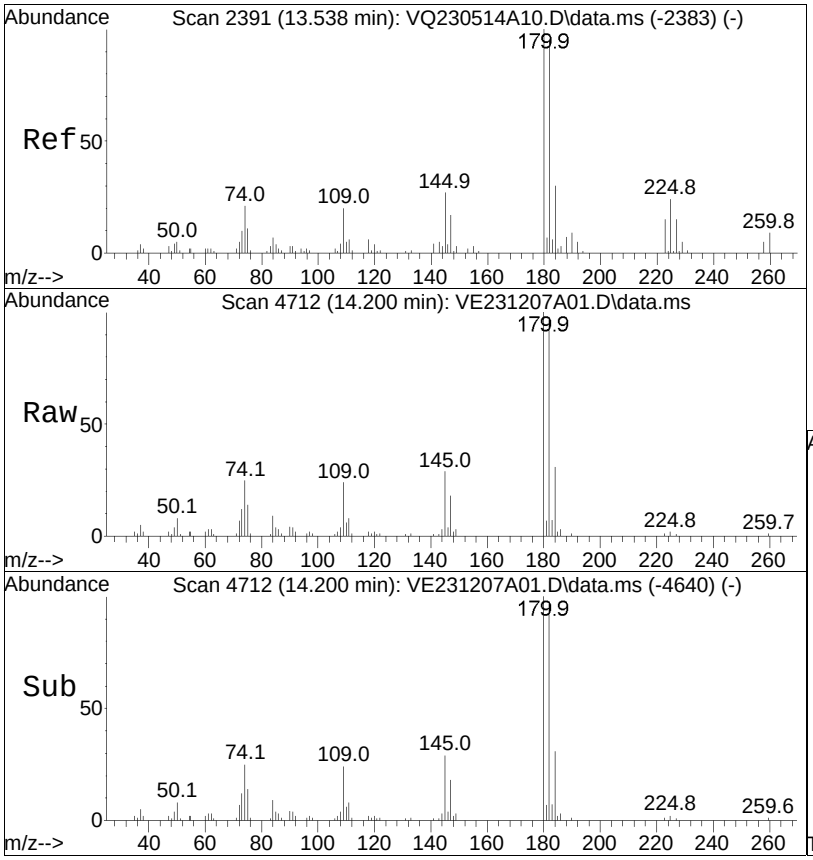


#111
1,2-Dibromo-3-chloropropane
Concen: 8.93 ug/L
RT: 13.574 min Scan# 4487
Delta R.T. 0.000 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:155 Resp: 6667

Ion	Ratio	Lower	Upper
155	100		
157	131.0	100.1	150.1

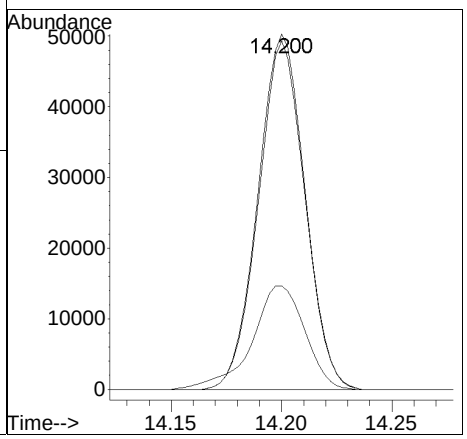


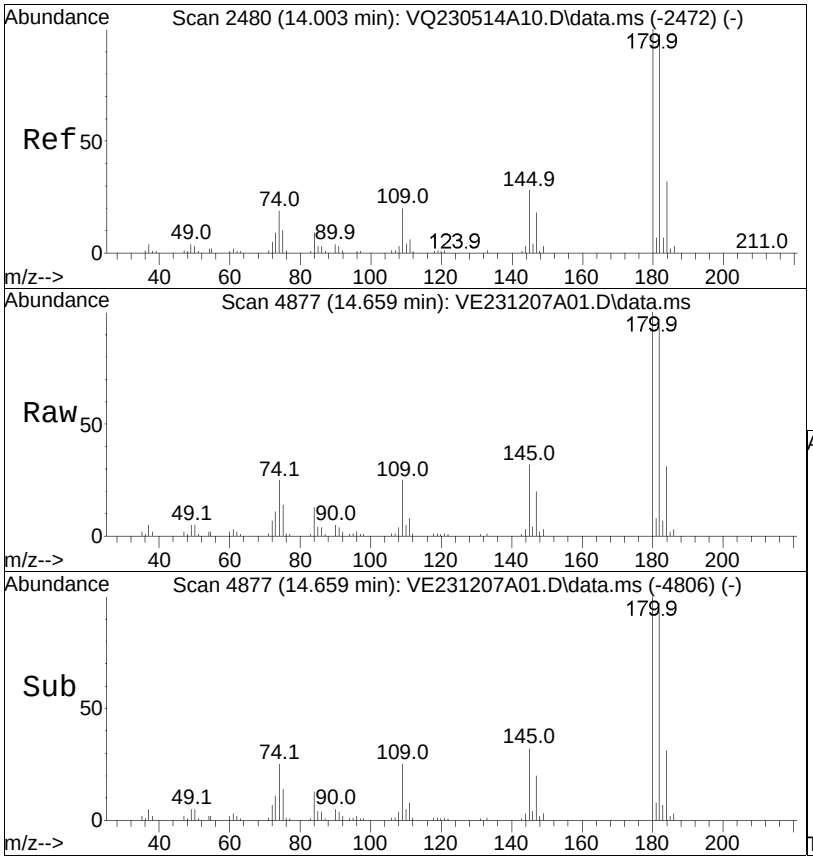


#114
1,2,4-Trichlorobenzene
Concen: 9.46 ug/L
RT: 14.200 min Scan# 4712
Delta R.T. 0.000 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:180 Resp: 74646

Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.0	114.0
145	32.7	28.4	42.6

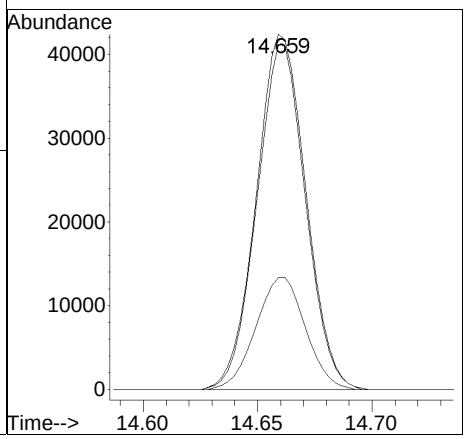




#116
1,2,3-Trichlorobenzene
Concen: 9.29 ug/L
RT: 14.659 min Scan# 4877
Delta R.T. -0.003 min
Lab File: VE231207A01.D
Acq: 7 Dec 2023 6:31 am

Tgt Ion:180 Resp: 63882

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.5	114.7
145	31.5	26.6	39.8



Manual Integration Report

Data Path	: K:\Elaine\2023\231207A\	QMethod	: Elaine_231127N_8260.m
Data File	: VE231207A01.D	Operator	: ELAINE:MJV
Date Inj'd	: 12/7/2023 6:31 am	Instrument	: Elaine
Sample	: WG1861020-3,31,10,10	Quant Date	: 12/7/2023 6:57 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B02.D
Acq On : 6 Dec 2023 9:45 am
Operator : ELAINE:PID
Sample : WG1860843-3,31,10,10
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 10:51:09 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.126	96	322183	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 100.00%			
63) Chlorobenzene-d5	9.682	117	290149	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 100.00%			
84) 1,4-Dichlorobenzene-d4	12.361	152	168478	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 100.00%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	82945	10.313	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.13%			
47) 1,2-Dichloroethane-d4	5.842	65	78442	8.636	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 86.36%			
64) Toluene-d8	7.832	98	329034	9.878	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.78%			
88) 4-Bromofluorobenzene	11.162	95	121129	9.504	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.04%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.655	85	54848	6.866	ug/L	97
3) Chloromethane	1.850	50	59259	6.484	ug/L	99
4) Vinyl chloride	1.930	62	67829	8.174	ug/L	99
5) Bromomethane	2.250	94	24973	9.644	ug/L	97
6) Chloroethane	2.373	64	40703	9.574	ug/L	97
7) Trichlorofluoromethane	2.515	101	97970	11.627	ug/L	100
10) 1,1-Dichloroethene	3.018	96	64894	12.062	ug/L	77
11) Carbon disulfide	3.049	76	195104	11.439	ug/L	99
12) Freon-113	3.057	101	70082	11.711	ug/L	92
15) Methylene chloride	3.589	84	73972	11.013	ug/L	86
17) Acetone	3.625	43	8991	5.607	ug/L #	78
18) trans-1,2-Dichloroethene	3.739	96	70524	11.760	ug/L	86
19) Methyl acetate	3.747	43	26121	6.902	ug/L	95
21) Methyl tert-butyl ether	3.842	73	150824	10.354	ug/L	92
25) 1,1-Dichloroethane	4.337	63	132519	10.239	ug/L	98
30) cis-1,2-Dichloroethene	4.860	96	82766	12.028	ug/L #	82
33) Bromochloromethane	5.055	128	36531	12.212	ug/L #	84
34) Cyclohexane	5.060	56	126098	8.607	ug/L	89
35) Chloroform	5.127	83	125721	11.528	ug/L	94
37) Carbon tetrachloride	5.266	117	97980	11.997	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B02.D
Acq On : 6 Dec 2023 9:45 am
Operator : ELAINE:PID
Sample : WG1860843-3,31,10,10
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 10:51:09 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	5.333	97	113768	11.623	ug/L		95
42) 2-Butanone	5.425	43	14636M1	6.394	ug/L		
45) Benzene	5.706	78	293271	11.530	ug/L		94
48) 1,2-Dichloroethane	5.909	62	76370	9.067	ug/L		96
51) Methyl cyclohexane	6.299	83	124435	11.140	ug/L		87
52) Trichloroethene	6.304	95	72078	11.138	ug/L		99
55) 1,2-Dichloropropane	6.855	63	68724	9.345	ug/L		95
58) Bromodichloromethane	6.927	83	89346	10.922	ug/L		99
61) 1,4-Dioxane	7.136	88	21652	570.015	ug/L	#	86
62) cis-1,3-Dichloropropene	7.620	75	104518	10.759	ug/L	#	82
65) Toluene	7.890	92	185885	11.267	ug/L		99
66) 4-Methyl-2-pentanone	8.324	58	12616	6.745	ug/L		86
67) Tetrachloroethene	8.338	166	83994	11.345	ug/L		93
69) trans-1,3-Dichloropropene	8.371	75	84834	10.159	ug/L		85
72) 1,1,2-Trichloroethane	8.560	83	42256	10.076	ug/L		99
73) Chlorodibromomethane	8.772	129	59106	9.988	ug/L		97
75) 1,2-Dibromoethane	9.050	107	48355	10.027	ug/L		100
77) 2-Hexanone	9.334	43	19998	6.014	ug/L		92
78) Chlorobenzene	9.704	112	202943	11.235	ug/L		91
79) Ethylbenzene	9.743	91	357929	11.306	ug/L		97
81) p/m Xylene	9.932	106	283701	23.442	ug/L		96
82) o Xylene	10.466	106	271962	23.288	ug/L		96
83) Styrene	10.530	104	438295	23.686	ug/L		91
85) Bromoform	10.553	173	32591	9.196	ug/L		100
87) Isopropylbenzene	10.842	105	360658	10.977	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.401	83	54841	10.520	ug/L		99
105) 1,3-Dichlorobenzene	12.286	146	166739	10.752	ug/L		98
106) 1,4-Dichlorobenzene	12.378	146	167238	10.764	ug/L		98
109) 1,2-Dichlorobenzene	12.798	146	153833	10.695	ug/L		99
111) 1,2-Dibromo-3-chloropr...	13.571	155	7892	9.525	ug/L		96
114) 1,2,4-Trichlorobenzene	14.200	180	90691	10.355	ug/L		99
116) 1,2,3-Trichlorobenzene	14.659	180	76821	10.065	ug/L		99

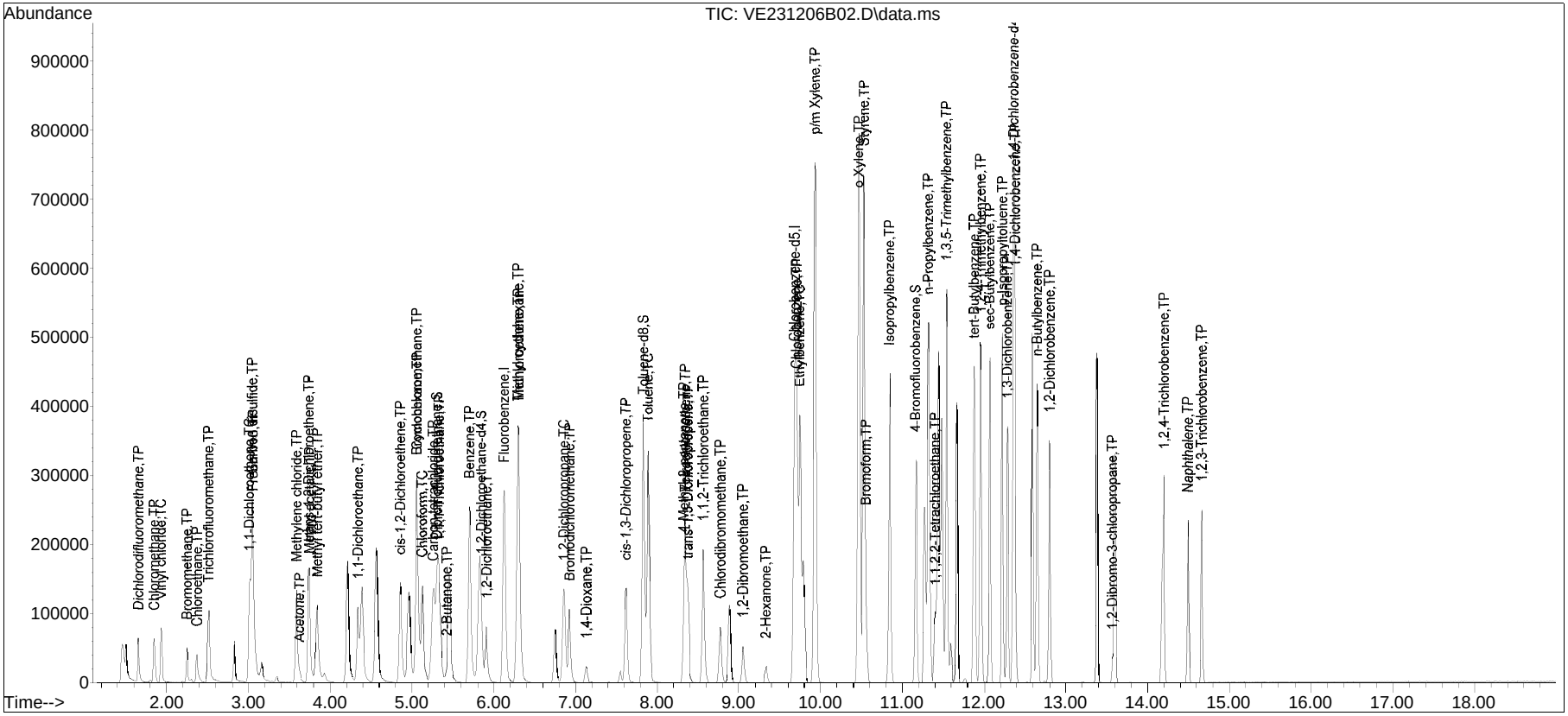
(#) = qualifier out of range (m) = manual integration (+) = signals summed

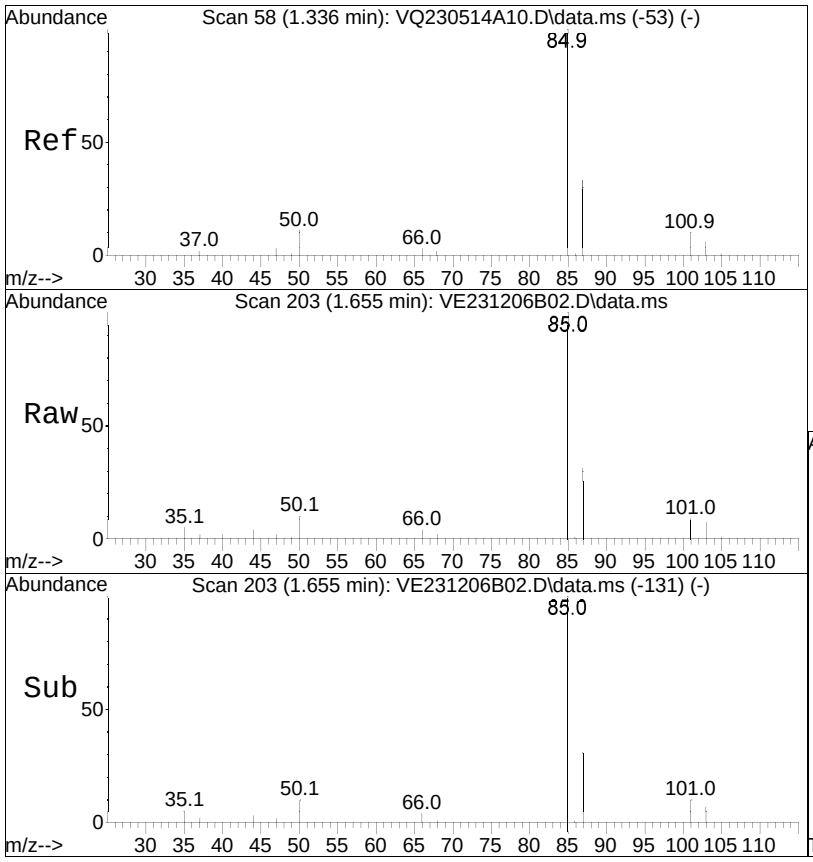
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B02.D
Acq On : 6 Dec 2023 9:45 am
Operator : ELAINE:PID
Sample : WG1860843-3,31,10,10
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 10:51:09 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

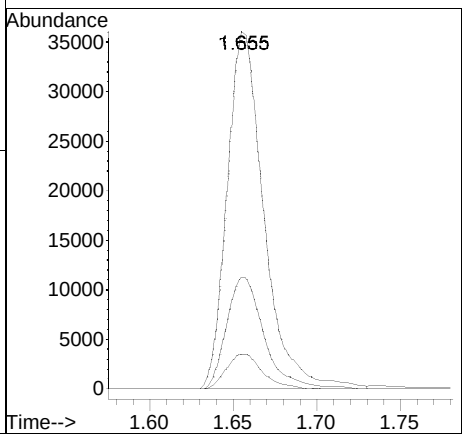


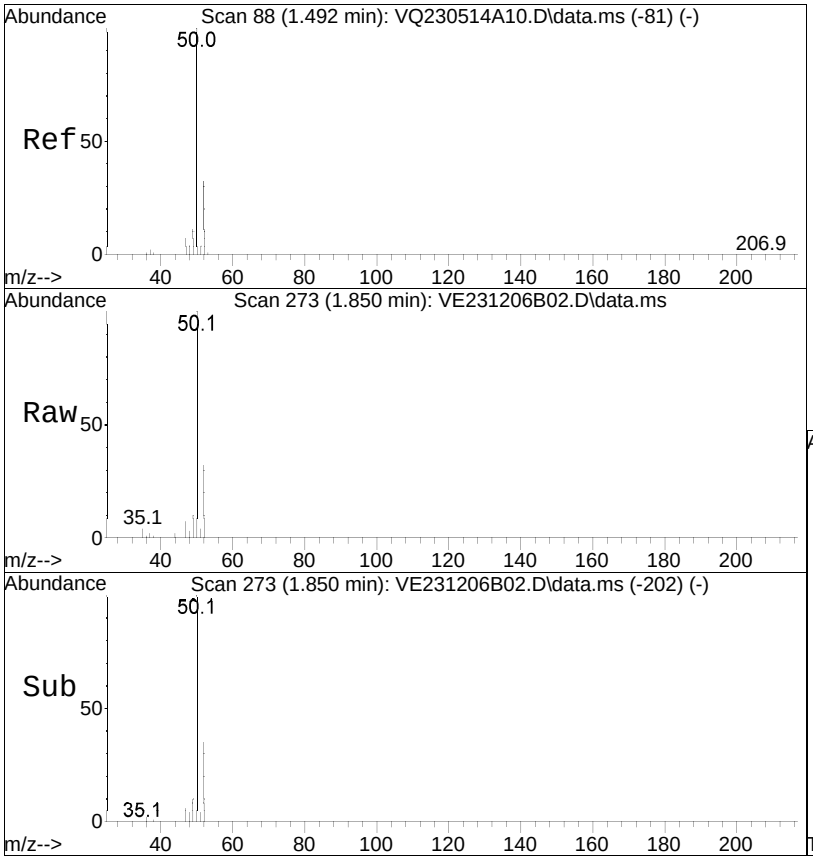


#2
Dichlorodifluoromethane
Concen: 6.87 ug/L
RT: 1.655 min Scan# 203
Delta R.T. 0.000 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 85 Resp: 54848

Ion	Ratio	Lower	Upper
85	100		
87	32.0	20.9	43.5
50	9.8	8.6	18.0

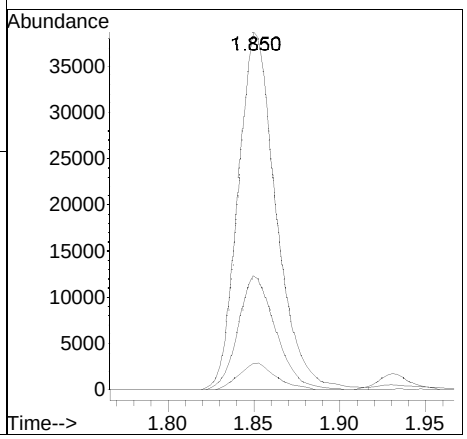


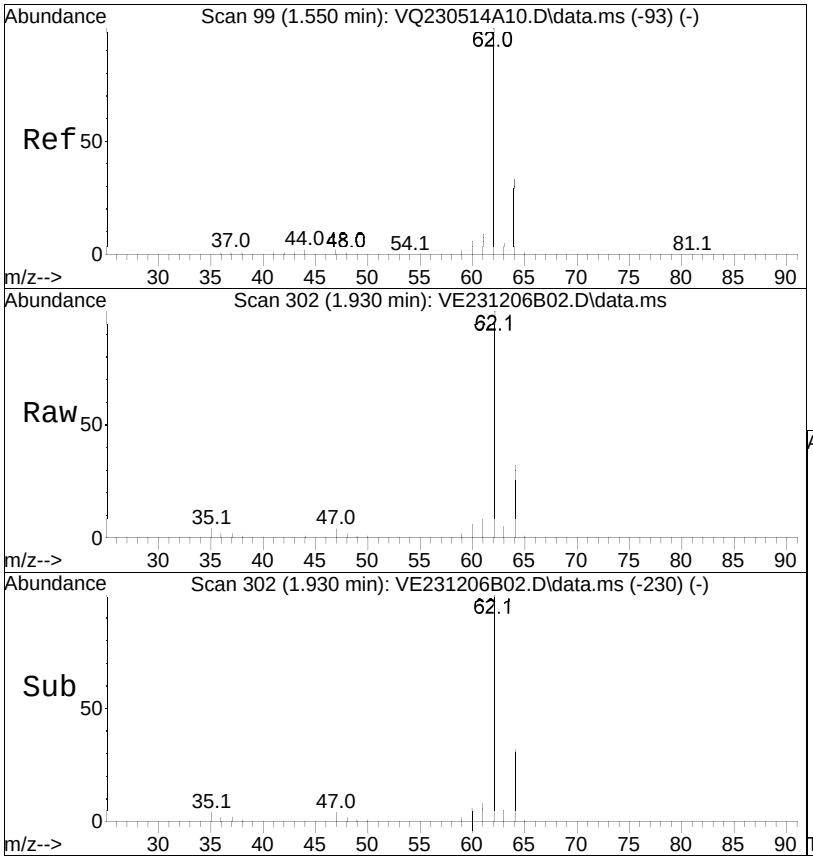


#3
Chloromethane
Concen: 6.48 ug/L
RT: 1.850 min Scan# 273
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 50 Resp: 59259

Ion	Ratio	Lower	Upper
50	100		
52	31.7	11.5	51.5
47	7.3	0.0	28.2

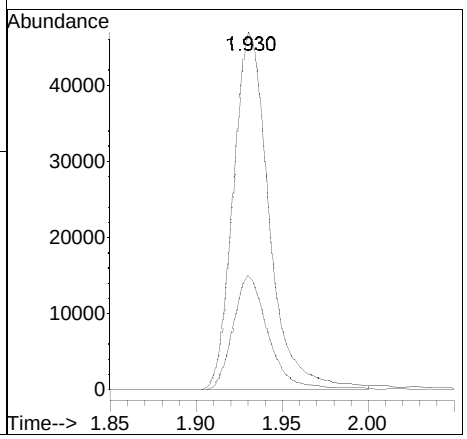


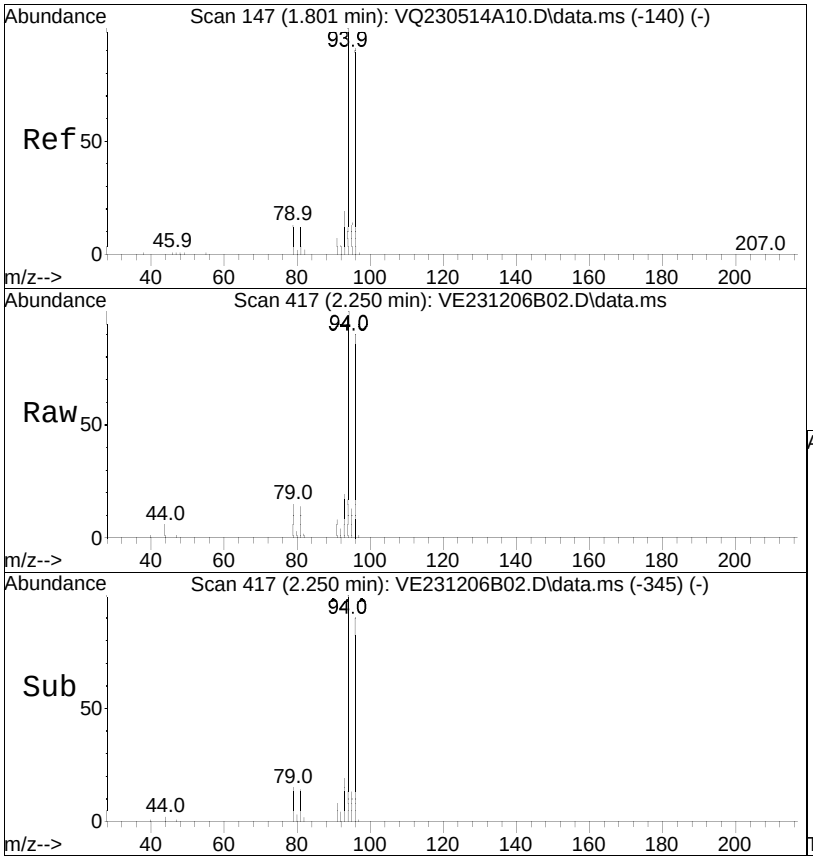


#4
Vinyl chloride
Concen: 8.17 ug/L
RT: 1.930 min Scan# 302
Delta R.T. 0.000 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 62 Resp: 67829

Ion	Ratio	Lower	Upper
62	100		
64	31.8	12.4	52.4

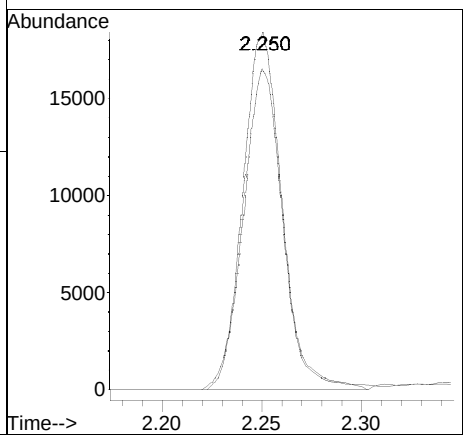


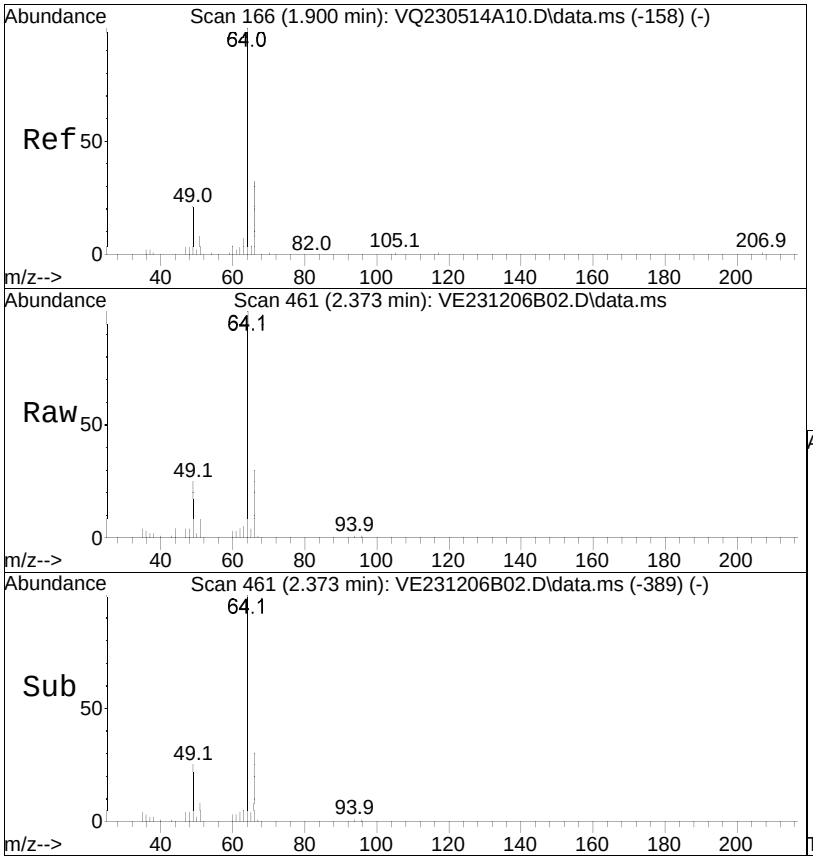


#5
Bromomethane
Concen: 9.64 ug/L
RT: 2.250 min Scan# 417
Delta R.T. 0.000 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 94 Resp: 24973

Ion	Ratio	Lower	Upper
94	100		
96	90.6	73.9	113.9

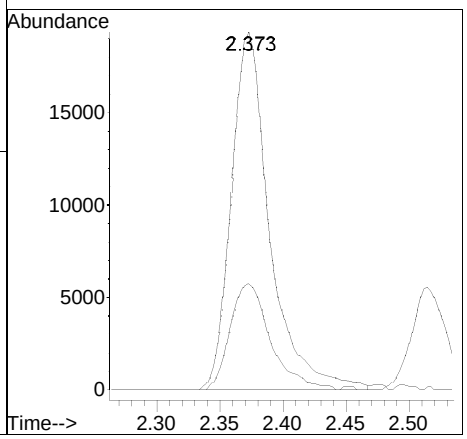


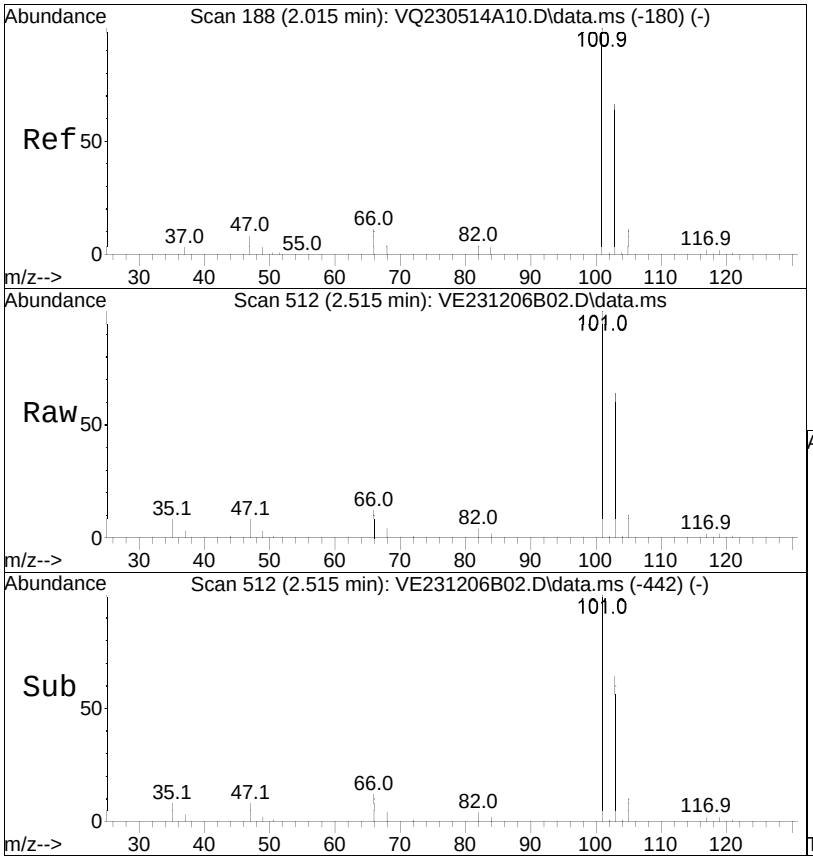


#6
Chloroethane
Concen: 9.57 ug/L
RT: 2.373 min Scan# 461
Delta R.T. 0.000 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 64 Resp: 40703

Ion	Ratio	Lower	Upper
64	100		
66	31.5	9.7	49.7

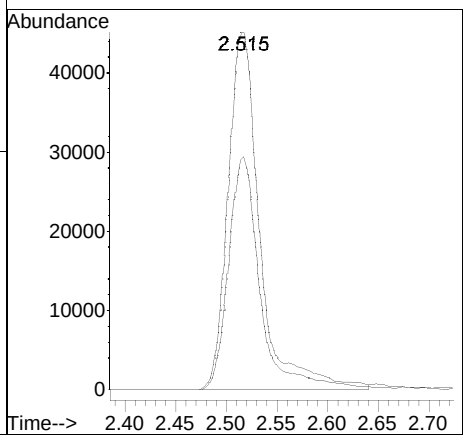


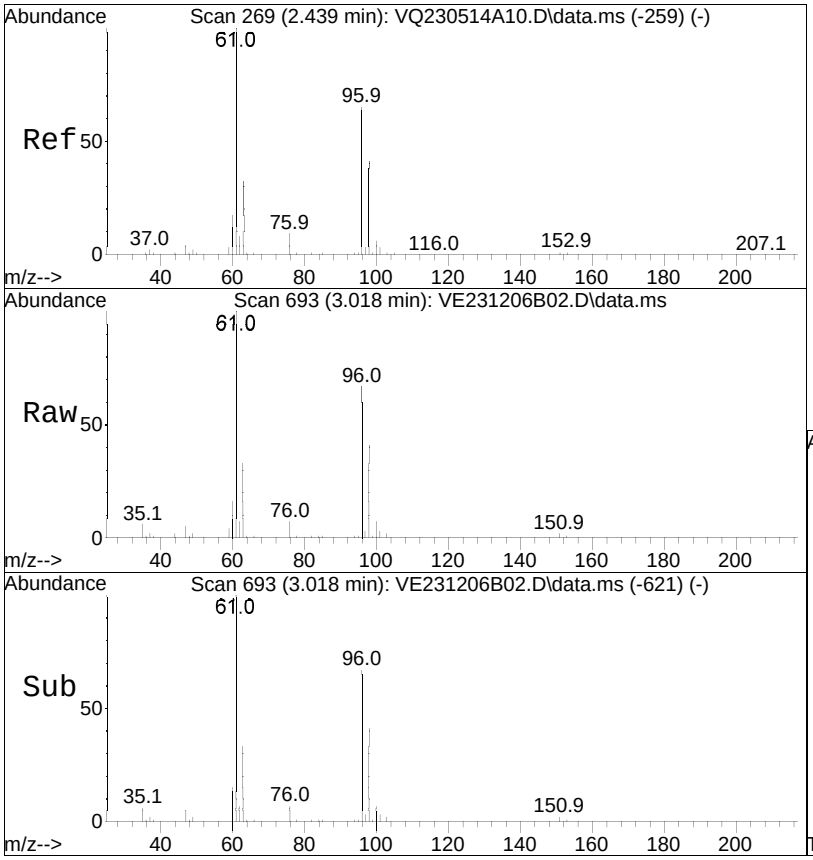


#7
Trichlorofluoromethane
Concen: 11.63 ug/L
RT: 2.515 min Scan# 512
Delta R.T. -0.006 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:101 Resp: 97970

Ion	Ratio	Lower	Upper
101	100		
103	65.3	52.2	78.2

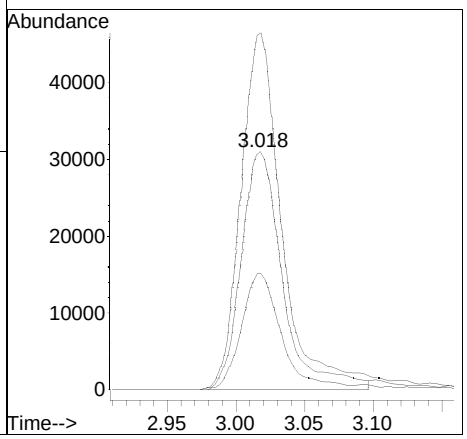


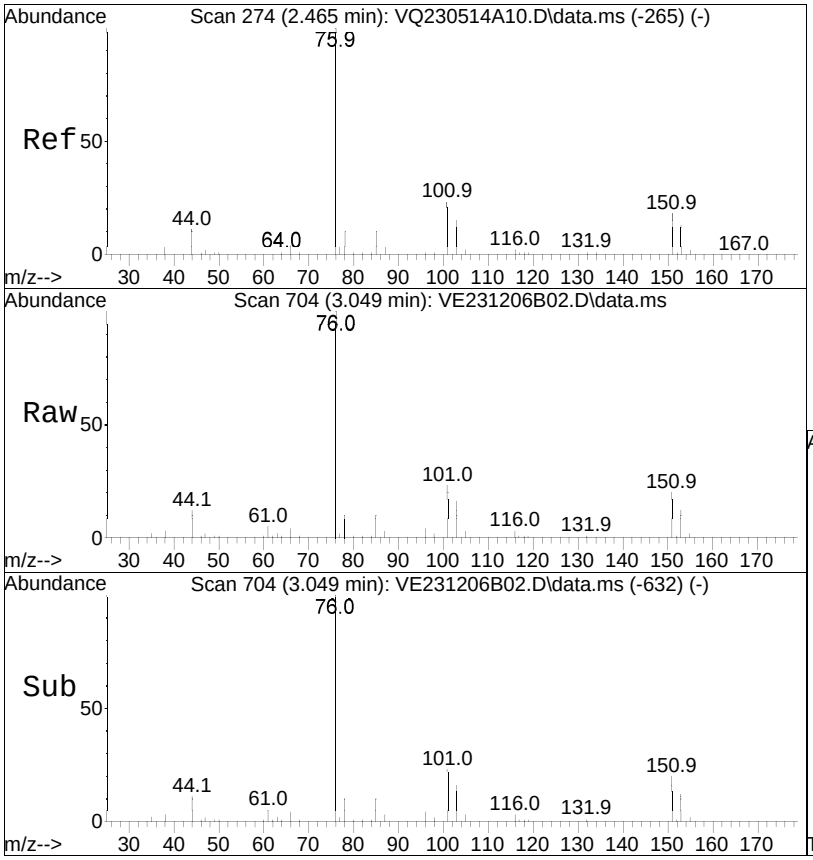


#10
1,1-Dichloroethene
Concen: 12.06 ug/L
RT: 3.018 min Scan# 693
Delta R.T. 0.000 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 96 Resp: 64894

Ion	Ratio	Lower	Upper
96	100		
61	149.7	149.7	224.5
63	47.6	46.8	70.2

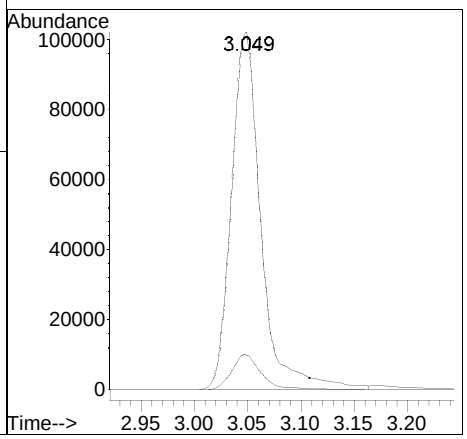


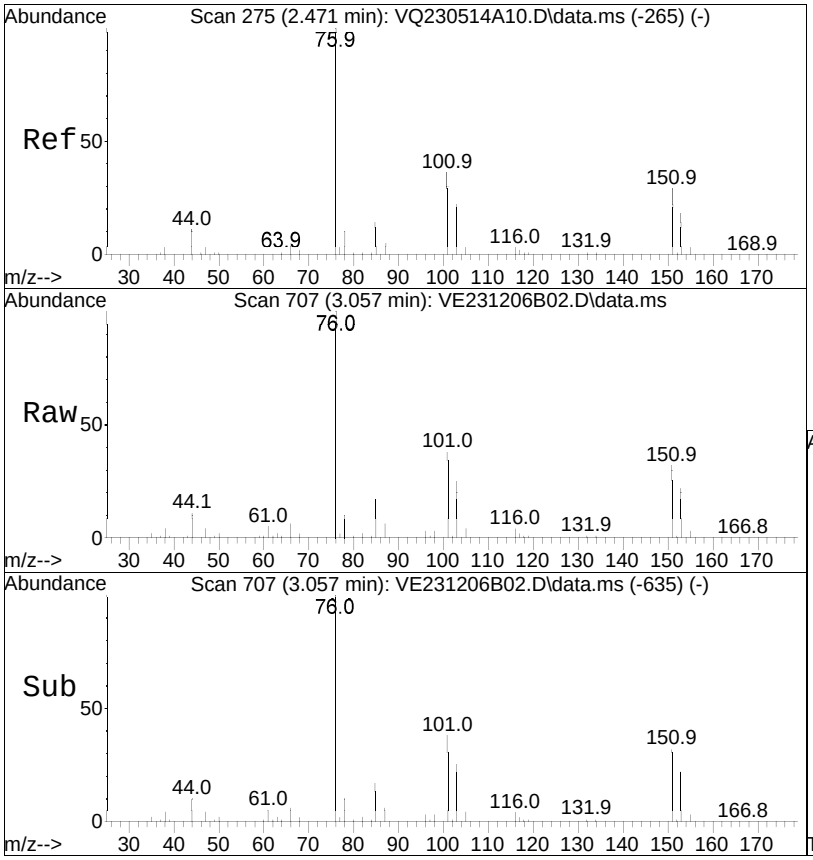


#11
Carbon disulfide
Concen: 11.44 ug/L
RT: 3.049 min Scan# 704
Delta R.T. 0.000 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 76 Resp: 195104

Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.8	14.0

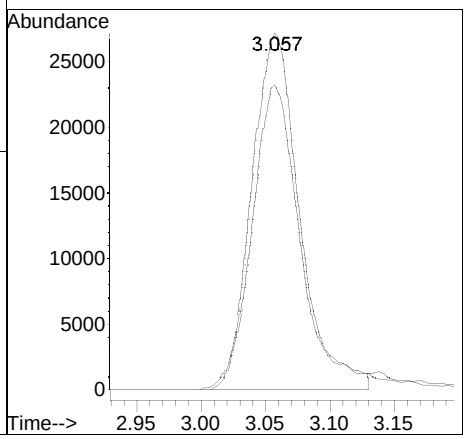


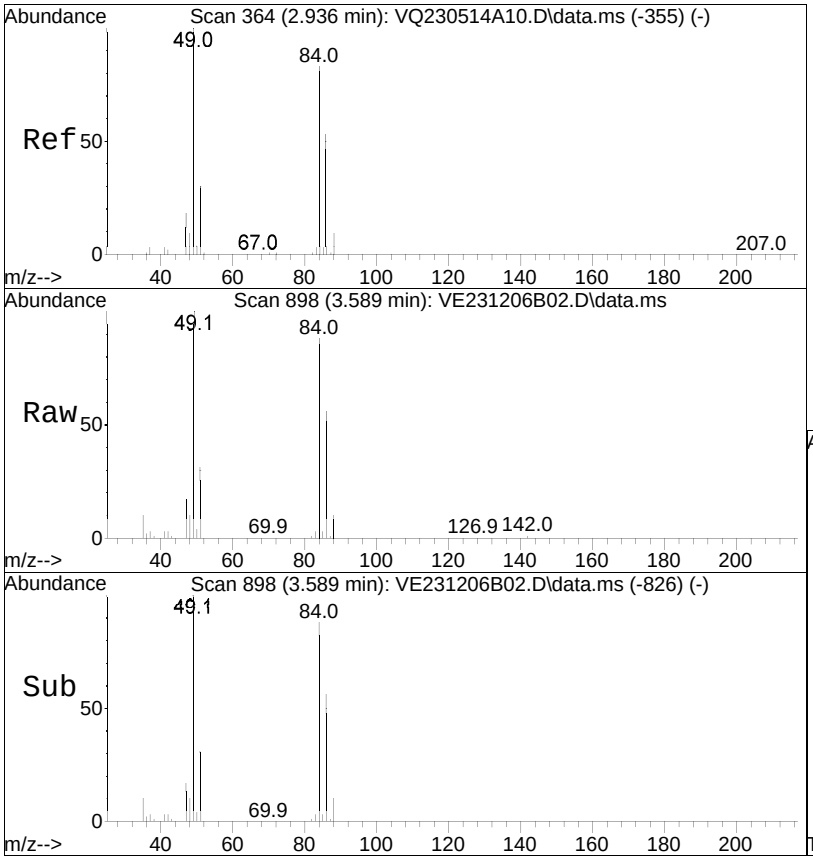


#12
Freon-113
Concen: 11.71 ug/L
RT: 3.057 min Scan# 707
Delta R.T. 0.000 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:101 Resp: 70082

Ion	Ratio	Lower	Upper
101	100		
151	86.4	63.6	95.4

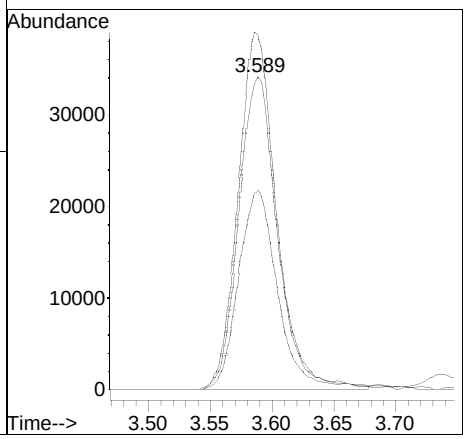


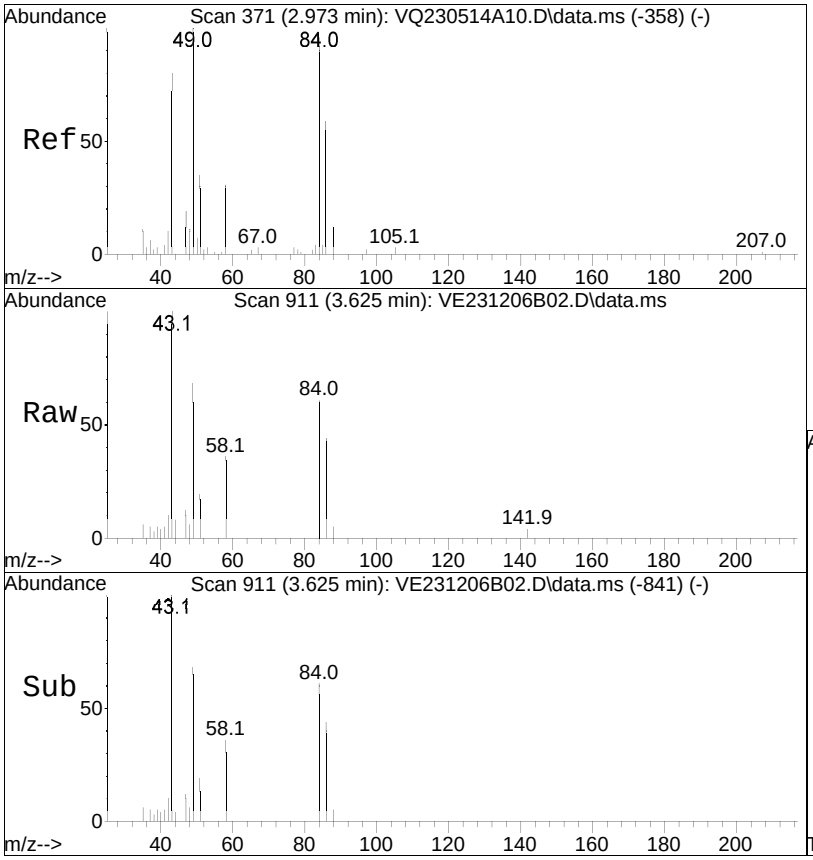


#15
Methylene chloride
Concen: 11.01 ug/L
RT: 3.589 min Scan# 898
Delta R.T. 0.000 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 84 Resp: 73972

Ion	Ratio	Lower	Upper
84	100		
86	63.5	41.0	85.2
49	111.5	88.1	183.1

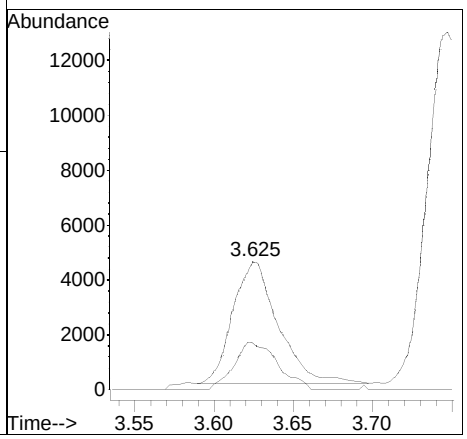


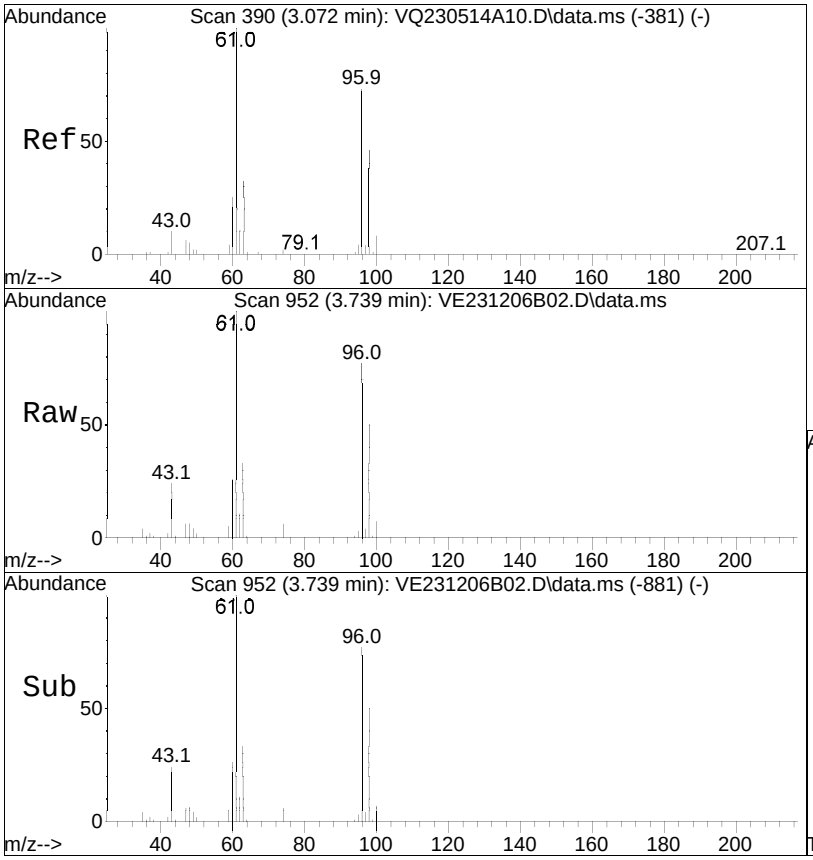


#17
Acetone
Concen: 5.61 ug/L
RT: 3.625 min Scan# 911
Delta R.T. -0.005 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 43 Resp: 8991

Ion	Ratio	Lower	Upper
43	100		
58	36.6	20.2	30.4#

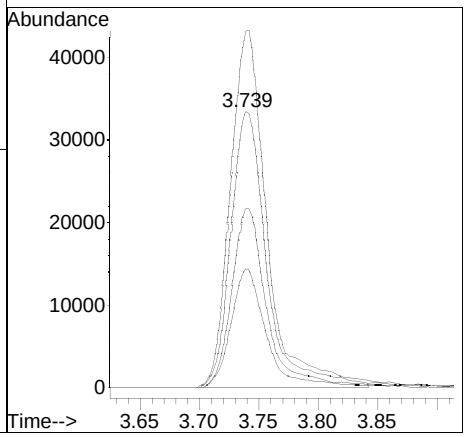


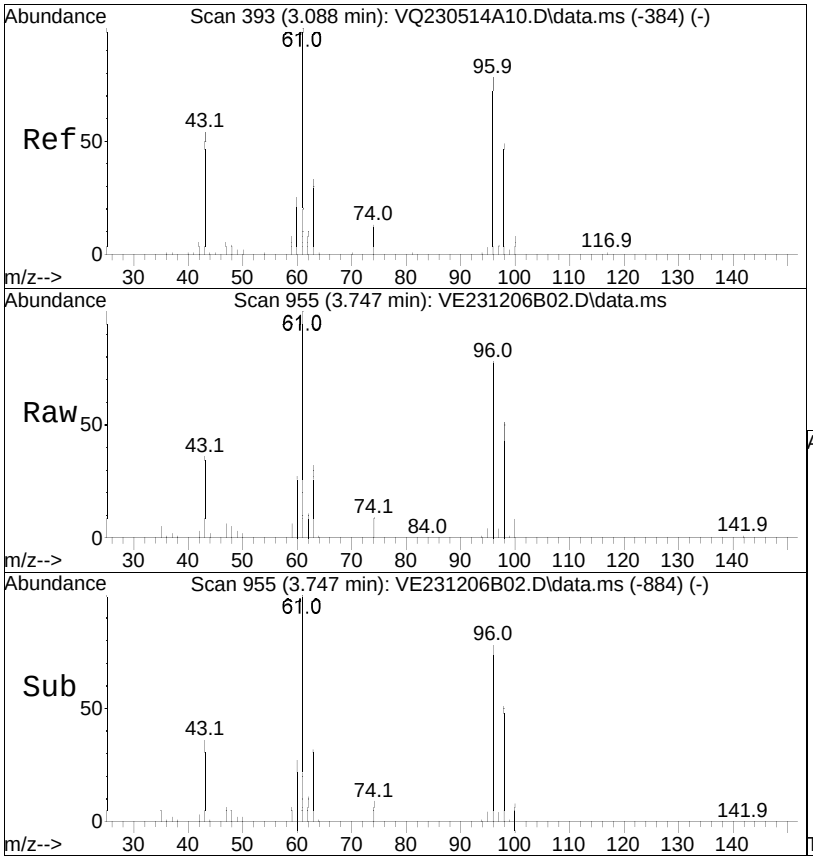


#18
trans-1,2-Dichloroethene
Concen: 11.76 ug/L
RT: 3.739 min Scan# 952
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 96 Resp: 70524

Ion	Ratio	Lower	Upper
96	100		
61	132.2	102.8	213.4
98	62.3	41.8	86.8
63	42.8	32.2	66.8

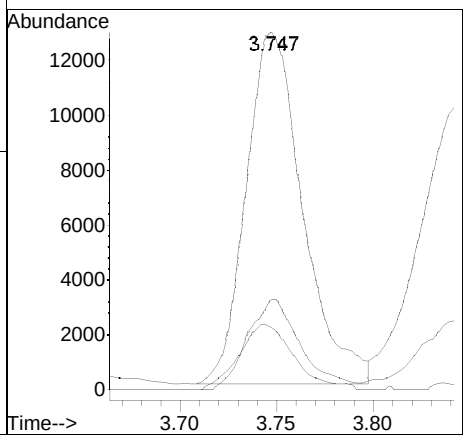


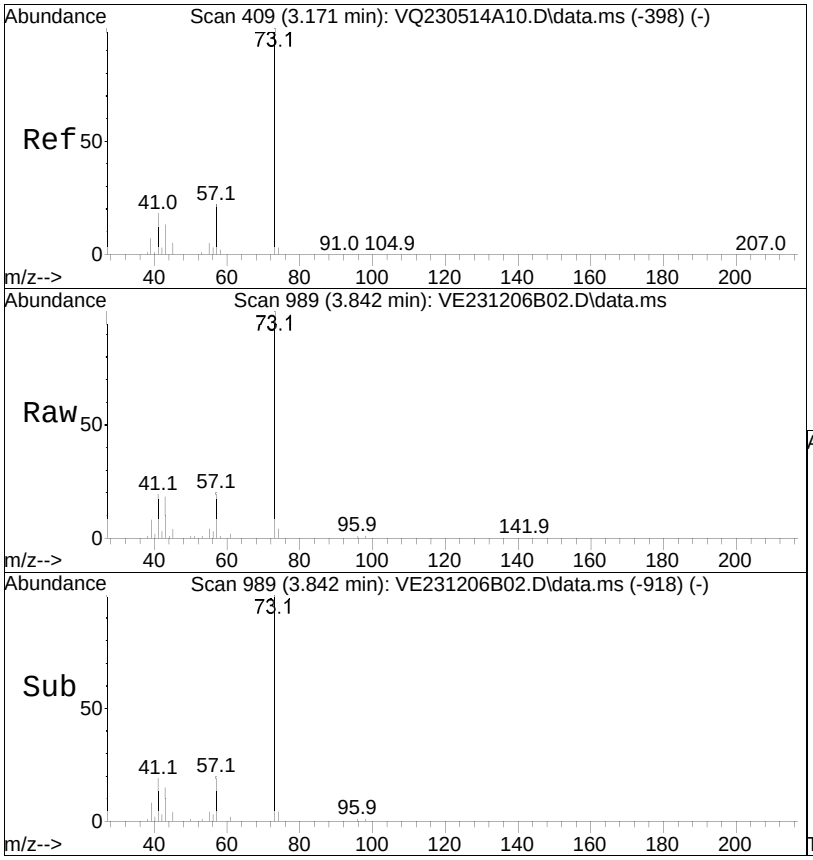


#19
Methyl acetate
Concen: 6.90 ug/L
RT: 3.747 min Scan# 955
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 43 Resp: 26121

Ion	Ratio	Lower	Upper
43	100		
74	24.3	16.6	24.8
59	18.2	13.9	20.9

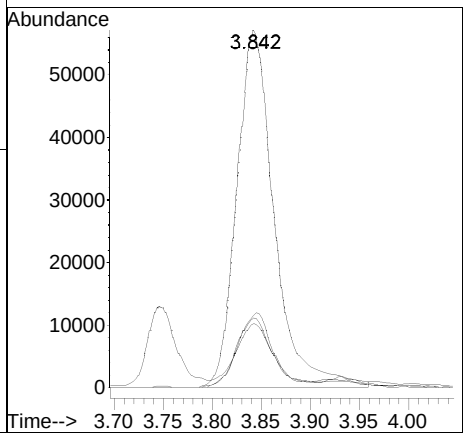


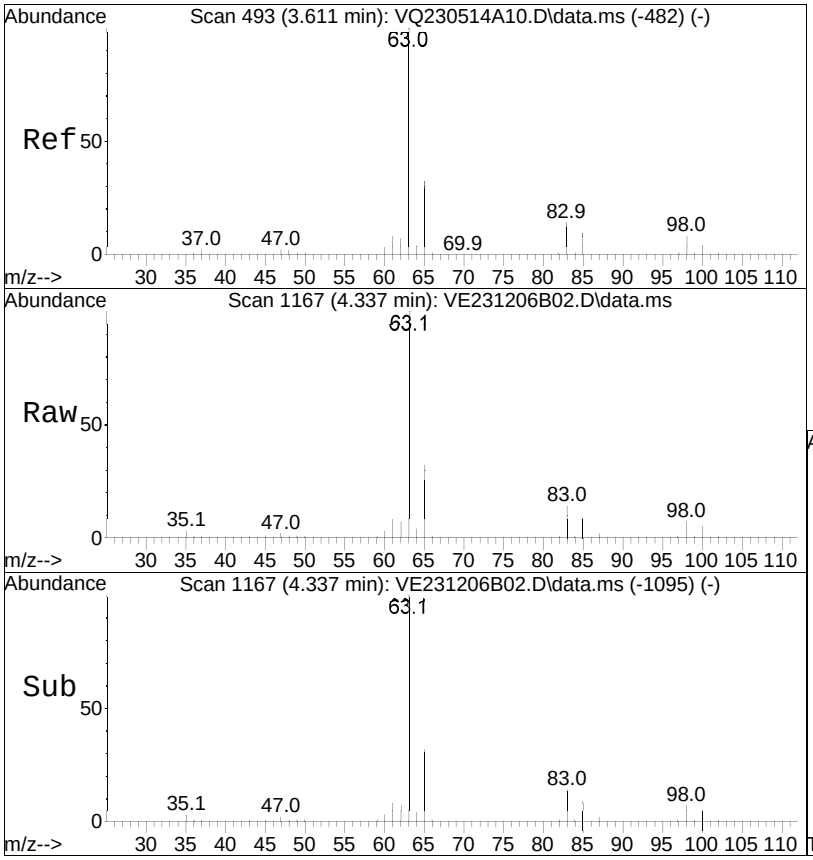


#21
Methyl tert-butyl ether
Concen: 10.35 ug/L
RT: 3.842 min Scan# 989
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 73 Resp: 150824

Ion	Ratio	Lower	Upper
73	100		
57	19.8	14.0	29.0
43	15.7	13.6	28.2
41	18.5	15.0	31.2

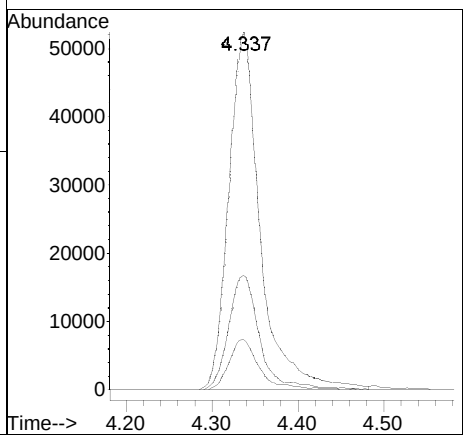


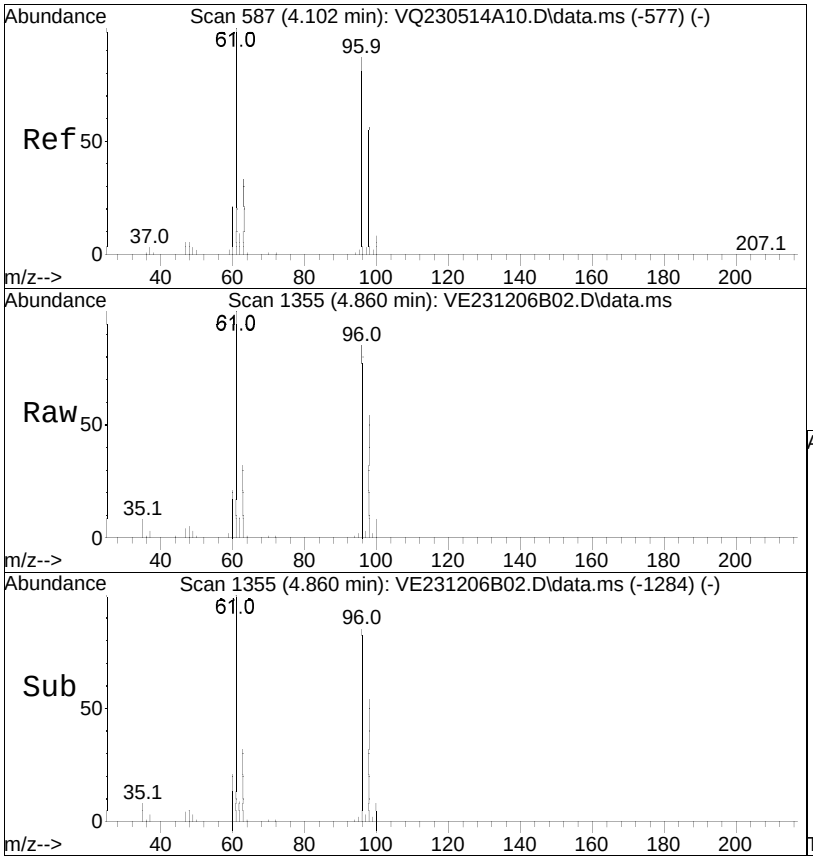


#25
1,1-Dichloroethane
Concen: 10.24 ug/L
RT: 4.337 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 63 Resp: 132519

Ion	Ratio	Lower	Upper
63	100		
65	29.9	11.5	51.5
83	12.6	0.0	32.7

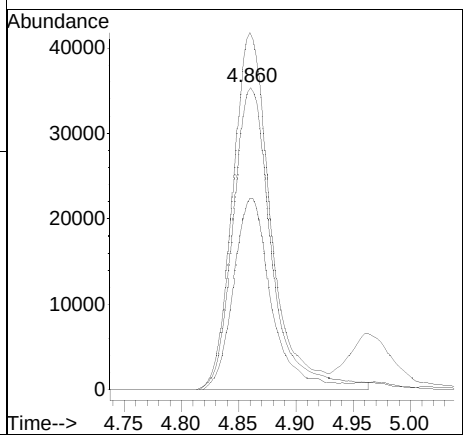


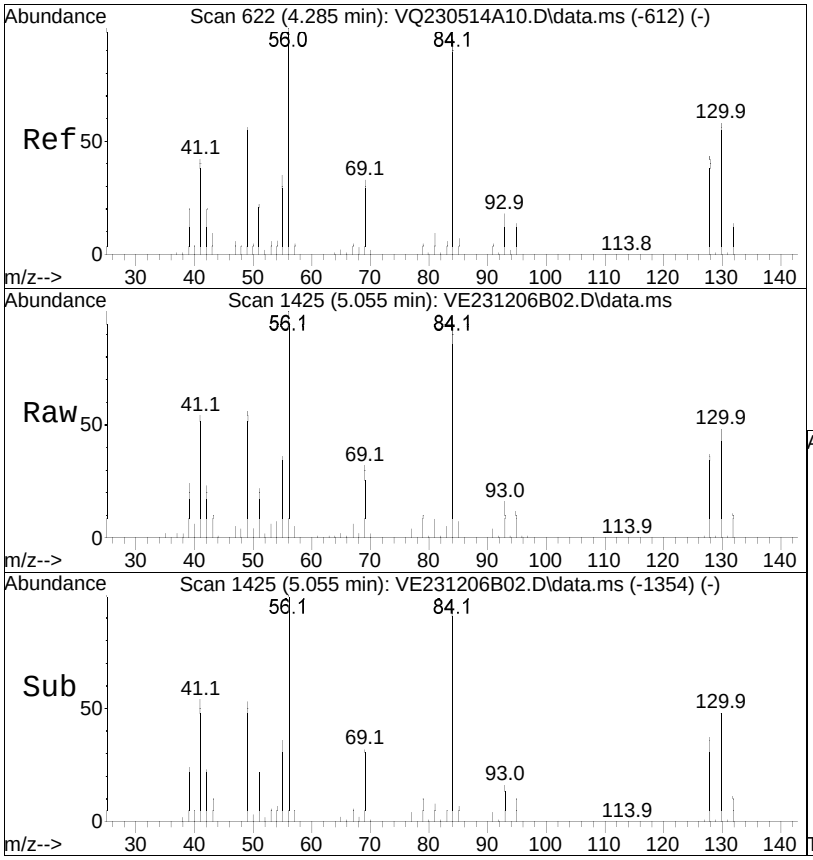


#30
cis-1,2-Dichloroethene
Concen: 12.03 ug/L
RT: 4.860 min Scan# 1355
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 96 Resp: 82766

Ion	Ratio	Lower	Upper
96	100		
61	115.2	115.3	172.9#
98	60.5	51.8	77.8

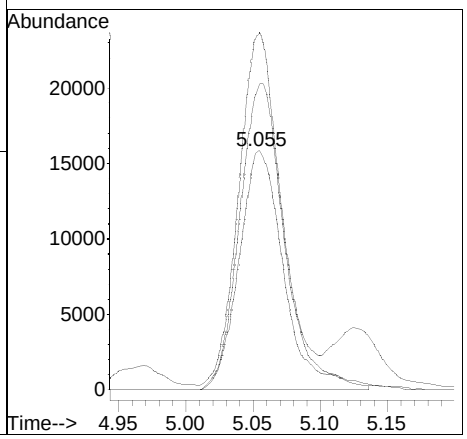


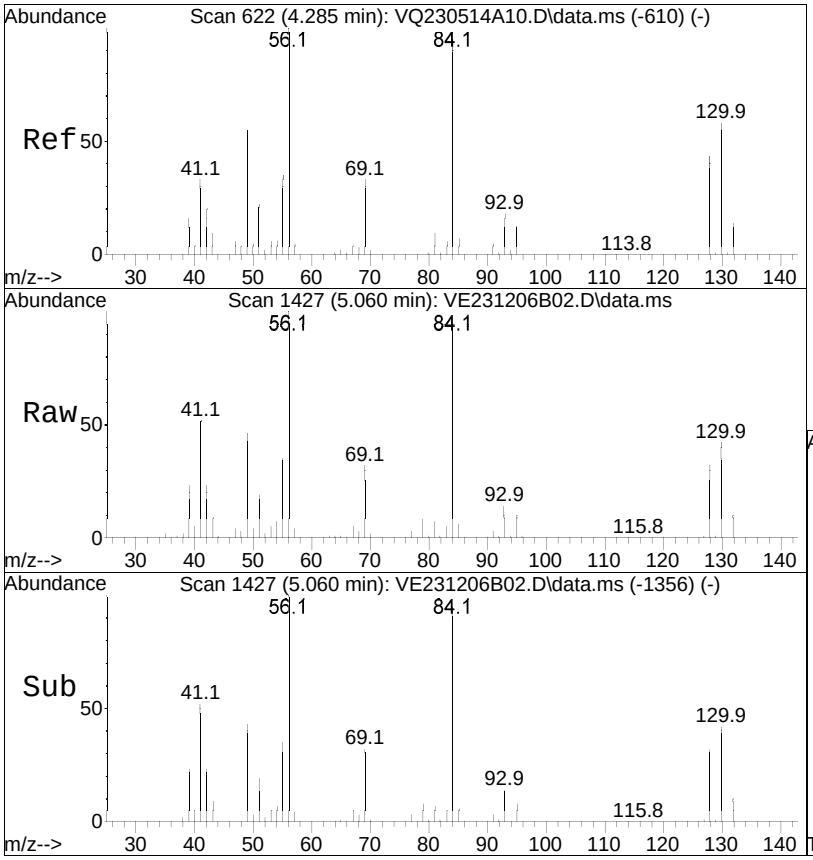


#33
Bromochloromethane
Concen: 12.21 ug/L
RT: 5.055 min Scan# 1425
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:128 Resp: 36531

Ion	Ratio	Lower	Upper
128	100		
49	141.2	143.3	214.9#
130	129.7	102.7	154.1

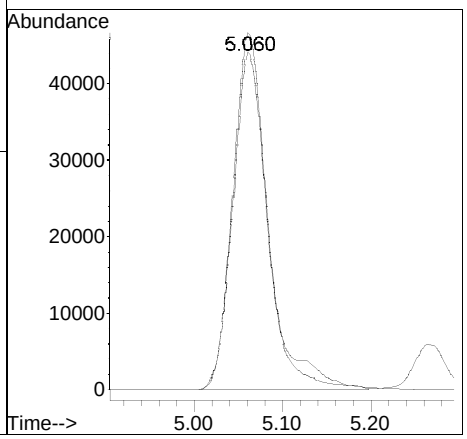


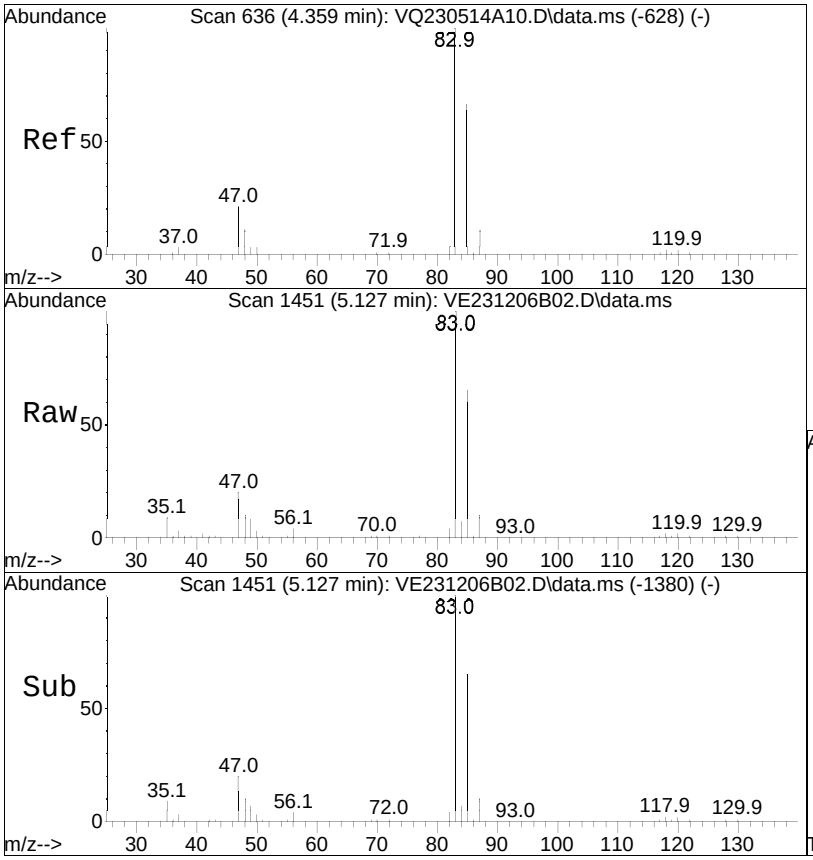


#34
Cyclohexane
Concen: 8.61 ug/L
RT: 5.060 min Scan# 1427
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 56 Resp: 126098

Ion	Ratio	Lower	Upper
56	100		
84	98.4	57.5	119.3

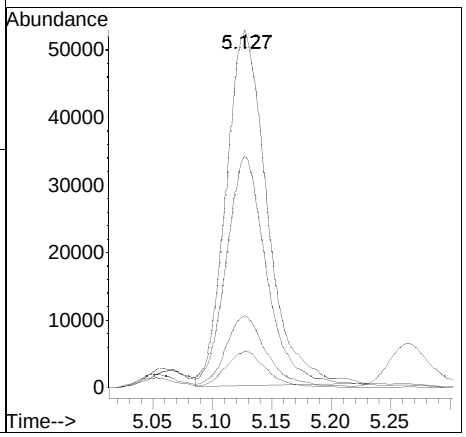


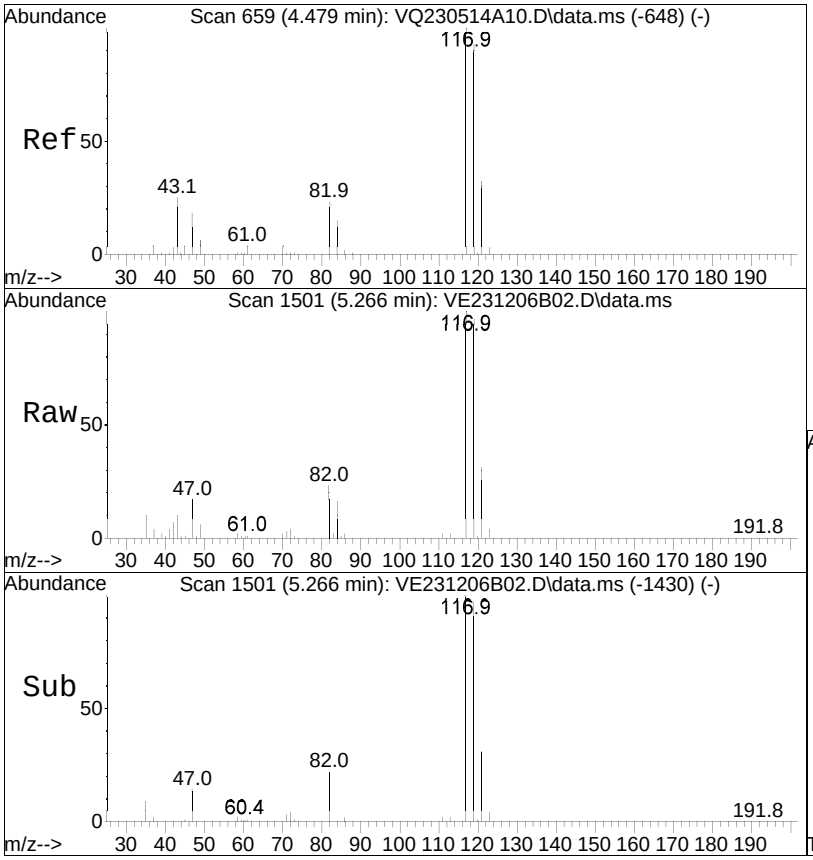


#35
Chloroform
Concen: 11.53 ug/L
RT: 5.127 min Scan# 1451
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 83 Resp: 125721

Ion	Ratio	Lower	Upper
83	100		
85	64.3	43.0	89.2
47	19.4	17.5	36.3
48	10.6	8.8	18.2

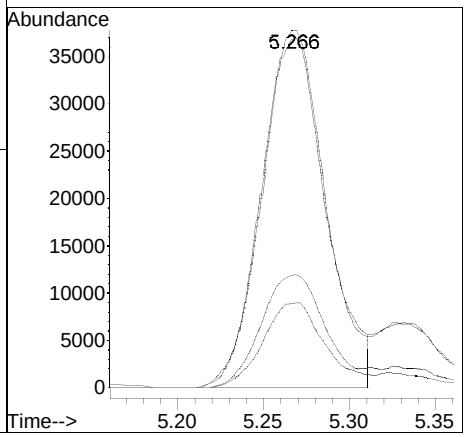


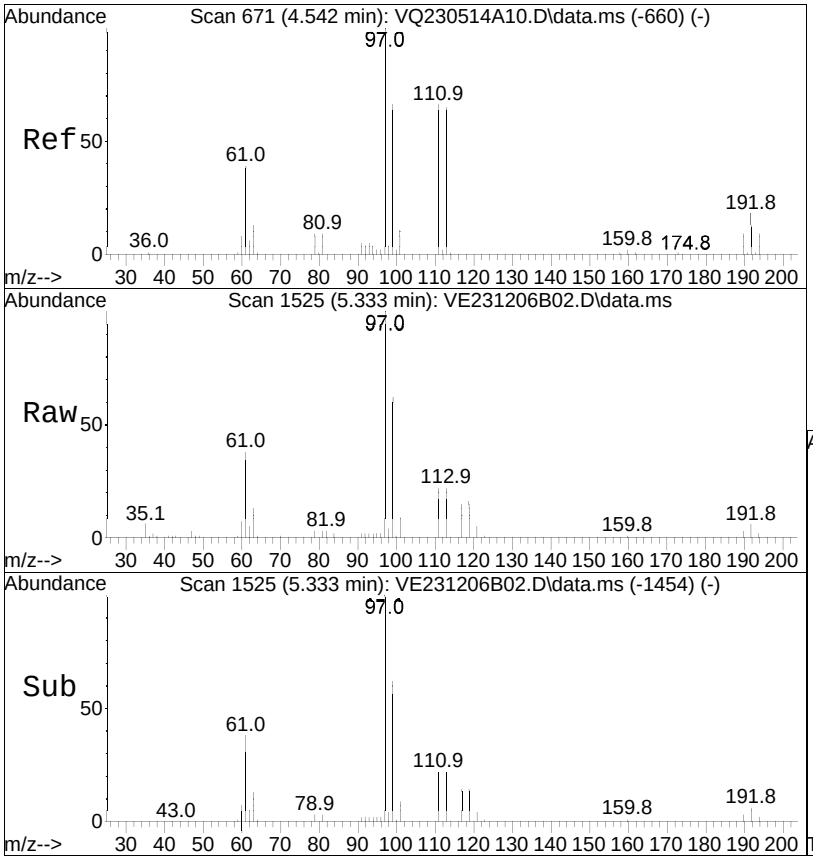


#37
Carbon tetrachloride
Concen: 12.00 ug/L
RT: 5.266 min Scan# 1501
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:117 Resp: 97980

Ion	Ratio	Lower	Upper
117	100		
119	96.8	63.2	131.2
121	31.3	20.3	42.3
82	23.4	18.1	37.7

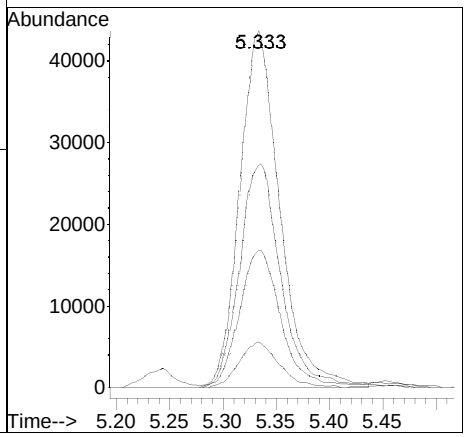


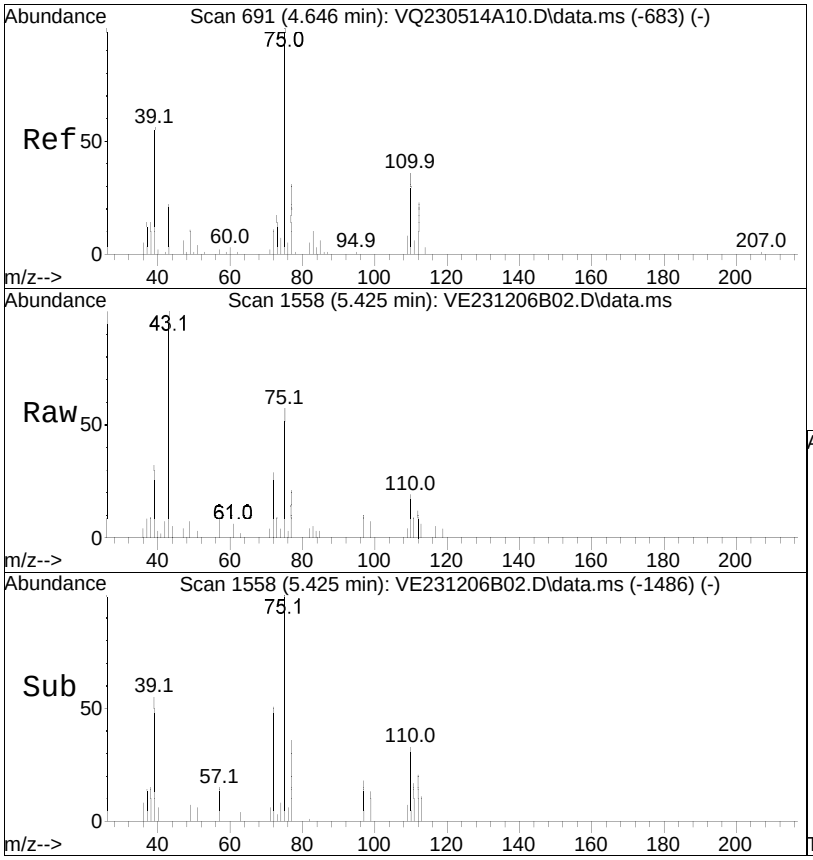


#40
1,1,1-Trichloroethane
Concen: 11.62 ug/L
RT: 5.333 min Scan# 1525
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 97 Resp: 113768

Ion	Ratio	Lower	Upper
97	100		
99	64.8	42.5	88.3
61	40.0	30.4	63.2
63	12.9	9.6	19.8

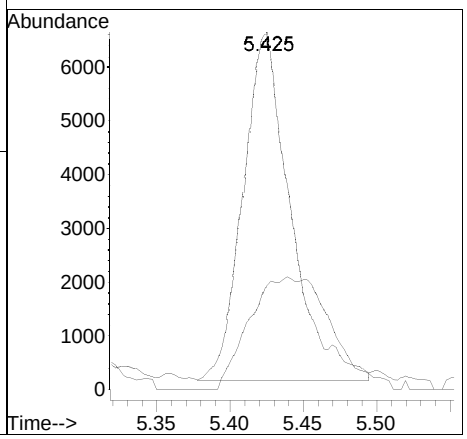


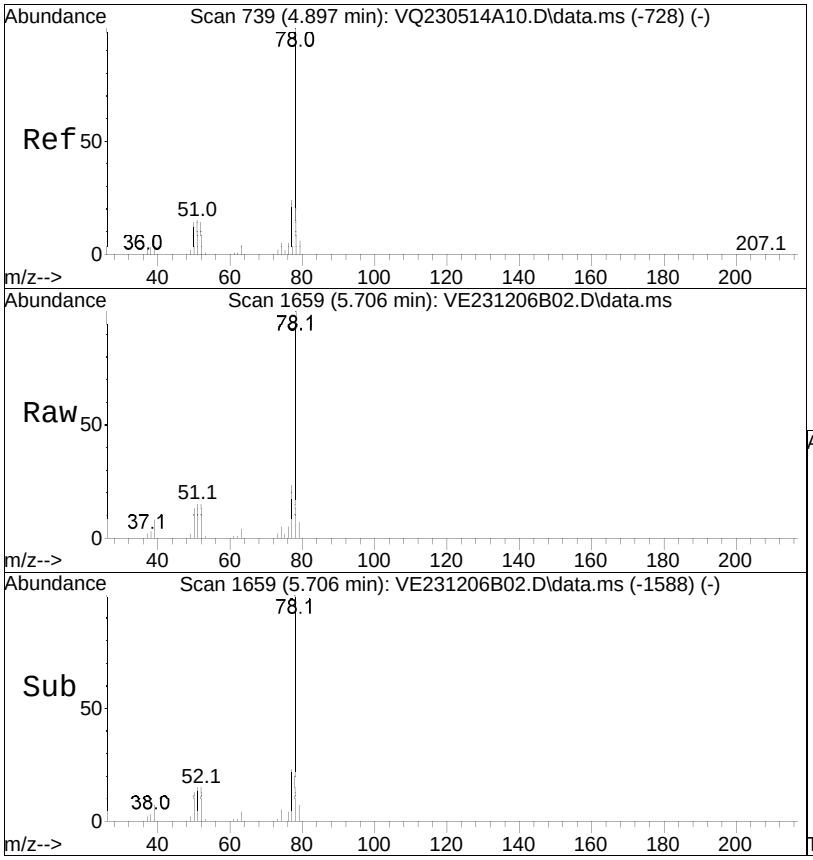


#42
2-Butanone
Concen: 6.39 ug/L M1
RT: 5.425 min Scan# 1558
Delta R.T. 0.000 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 43 Resp: 14636

Ion	Ratio	Lower	Upper
43	100		
72	30.9	31.2	46.8#

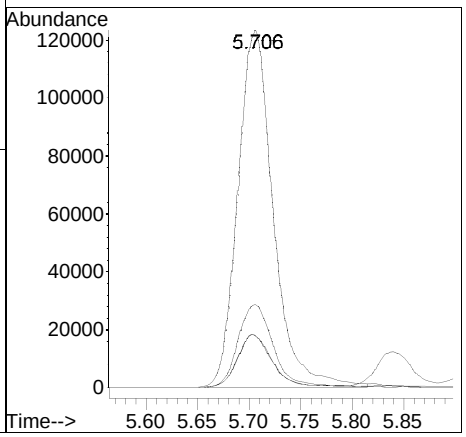


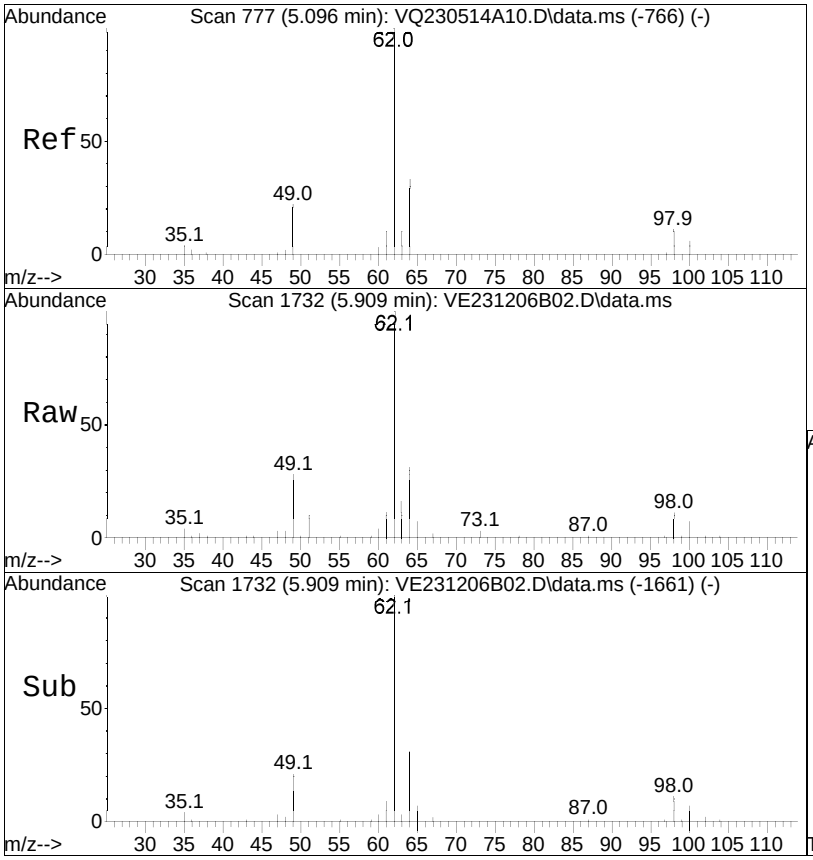


#45
Benzene
Concen: 11.53 ug/L
RT: 5.706 min Scan# 1659
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 78 Resp: 293271

Ion	Ratio	Lower	Upper
78	100		
77	23.2	15.9	33.1
51	14.5	12.3	25.5
52	14.7	11.3	23.5

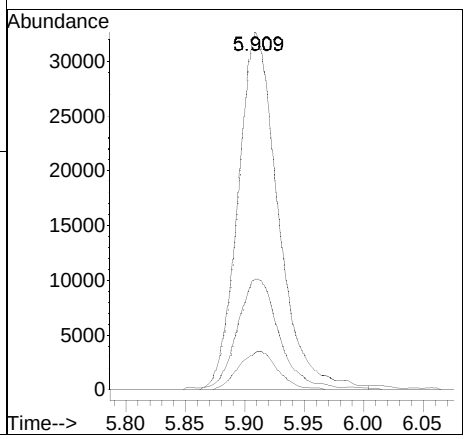


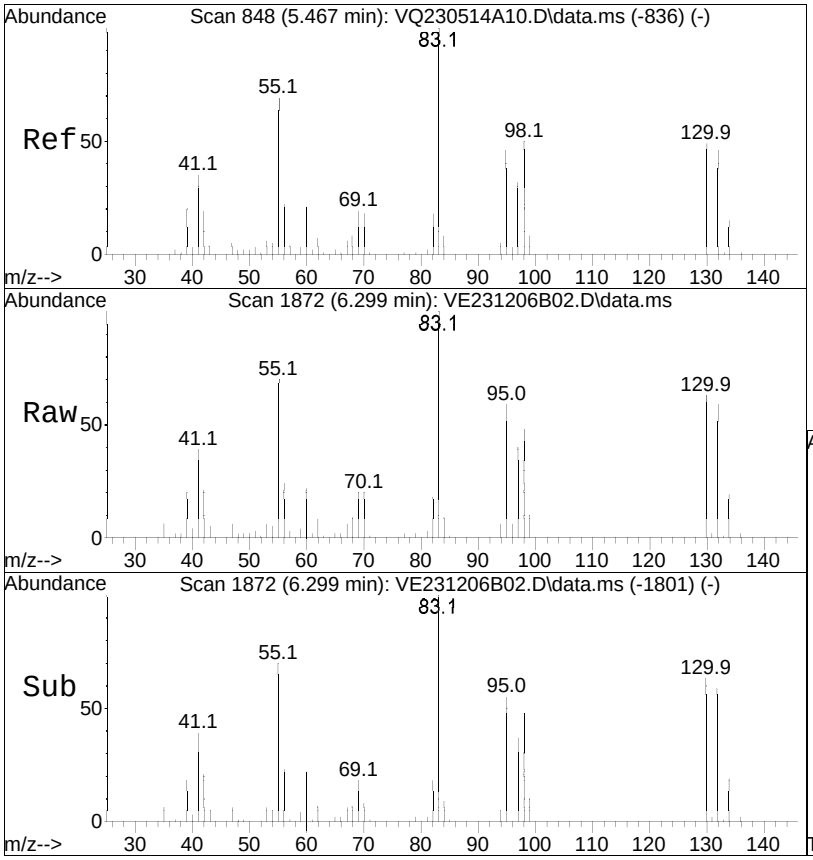


#48
1,2-Dichloroethane
Concen: 9.07 ug/L
RT: 5.909 min Scan# 1732
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 62 Resp: 76370

Ion	Ratio	Lower	Upper
62	100		
64	30.7	12.6	52.6
98	10.7	0.0	28.2

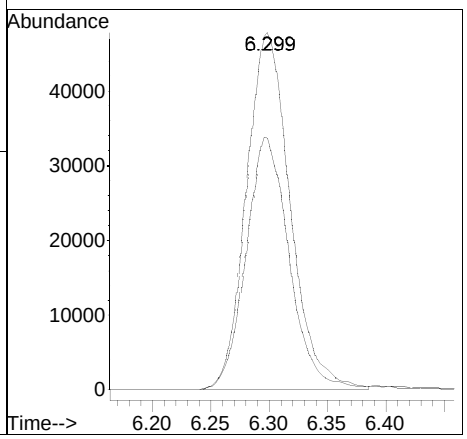


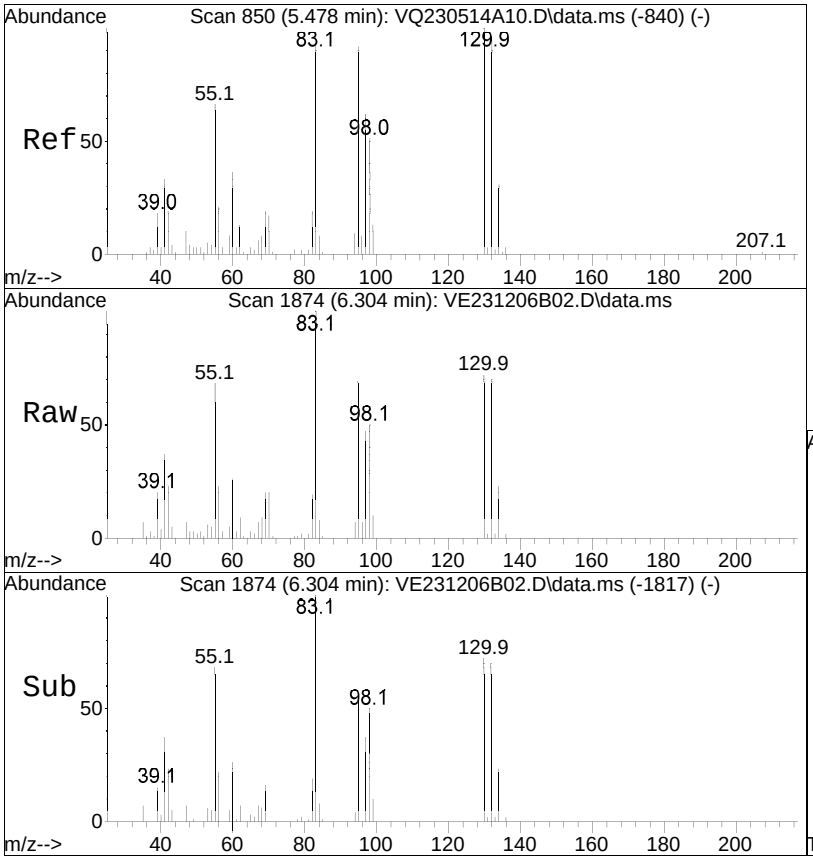


#51
Methyl cyclohexane
Concen: 11.14 ug/L
RT: 6.299 min Scan# 1872
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 83 Resp: 124435

Ion	Ratio	Lower	Upper
83	100		
55	69.6	65.0	97.6

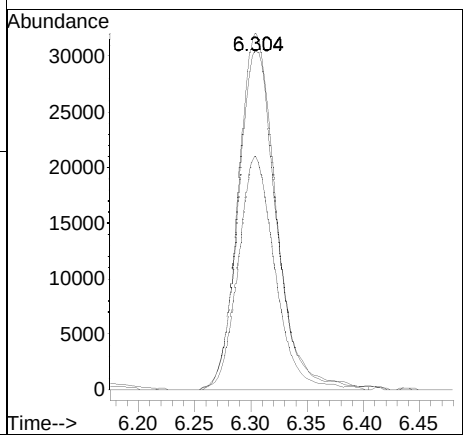


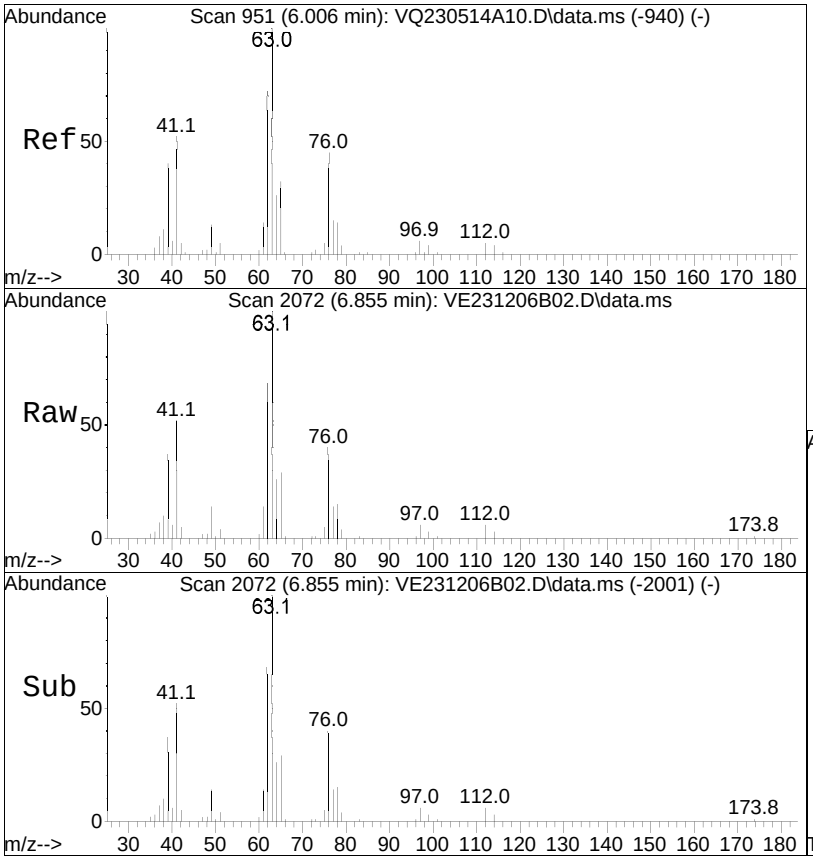


#52
Trichloroethene
Concen: 11.14 ug/L
RT: 6.304 min Scan# 1874
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 95 Resp: 72078

Ion	Ratio	Lower	Upper
95	100		
97	66.1	54.2	81.4
130	102.7	81.8	122.6

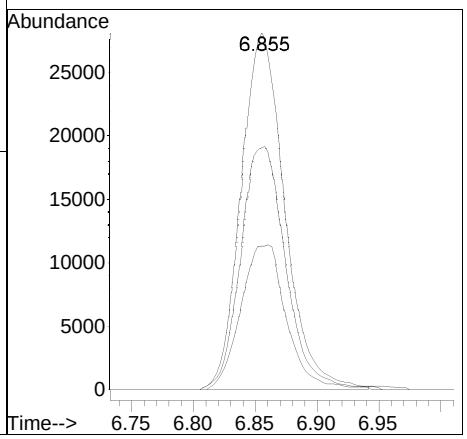


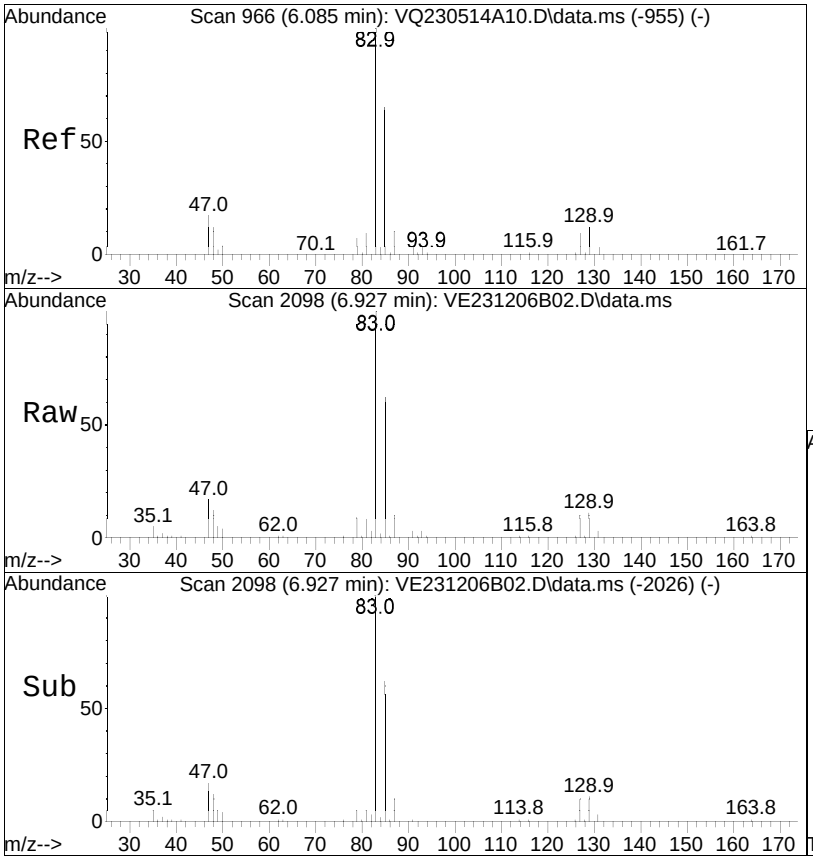


#55
1,2-Dichloropropane
Concen: 9.35 ug/L
RT: 6.855 min Scan# 2072
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 63 Resp: 68724

Ion	Ratio	Lower	Upper
63	100		
62	70.3	57.6	86.4
76	42.4	38.5	57.7

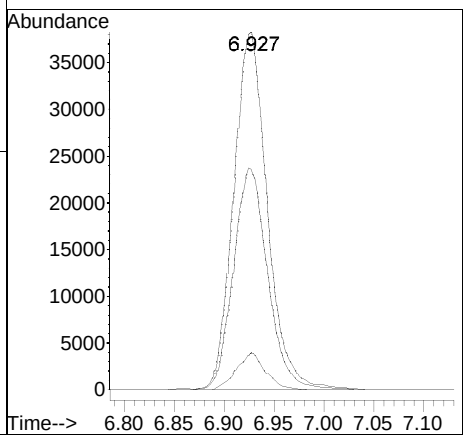


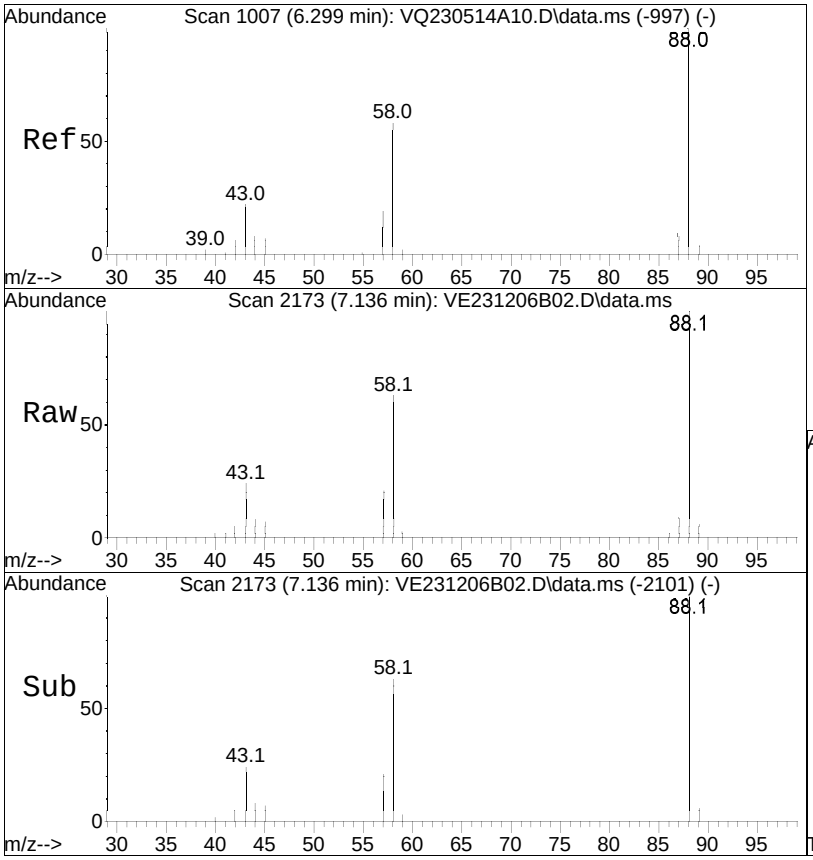


#58
Bromodichloromethane
Concen: 10.92 ug/L
RT: 6.927 min Scan# 2098
Delta R.T. 0.000 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 83 Resp: 89346

Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.4	77.2
127	9.2	6.9	10.3

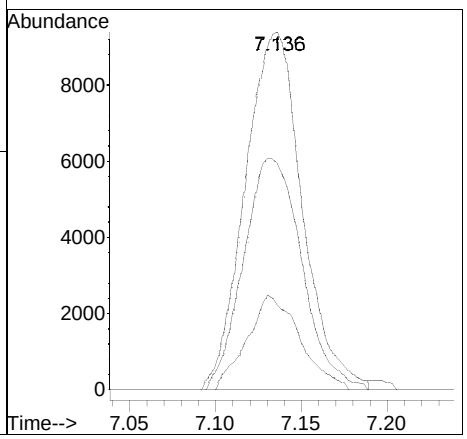


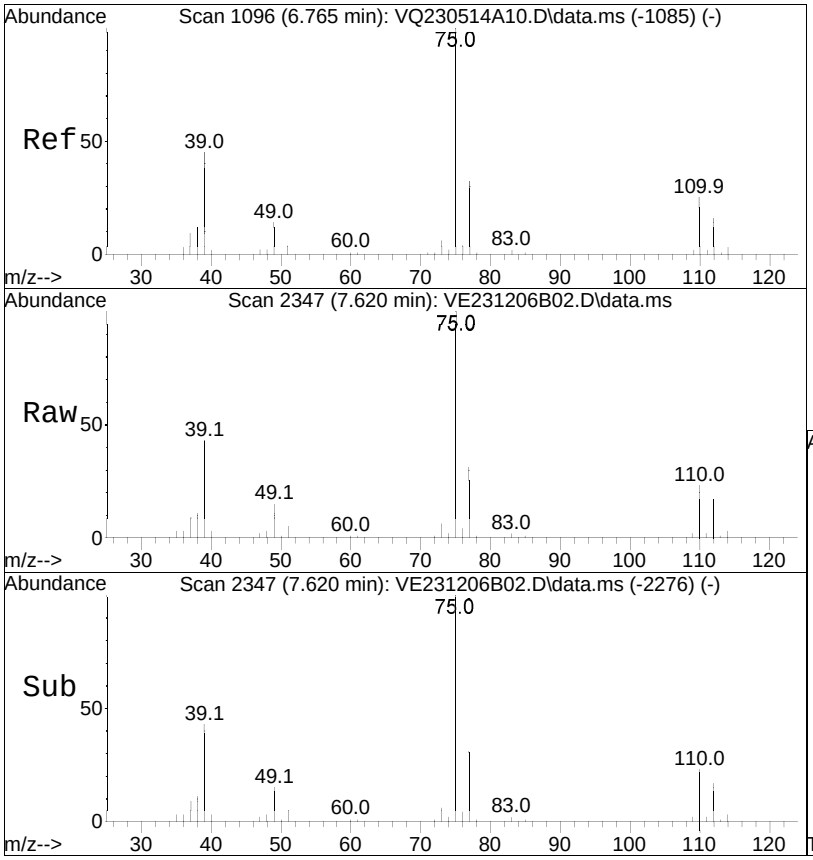


#61
1,4-Dioxane
Concen: 570.02 ug/L
RT: 7.136 min Scan# 2173
Delta R.T. 0.000 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 88 Resp: 21652

Ion	Ratio	Lower	Upper
88	100		
58	65.9	59.1	88.7
43	24.6	30.0	45.0#

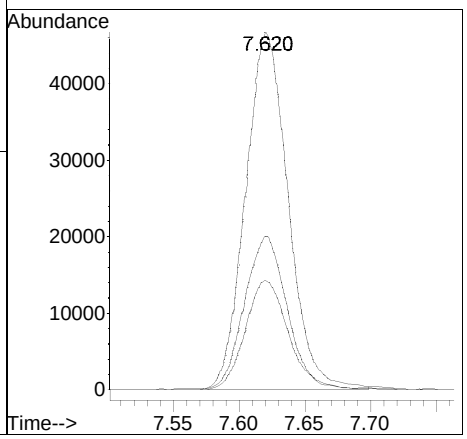


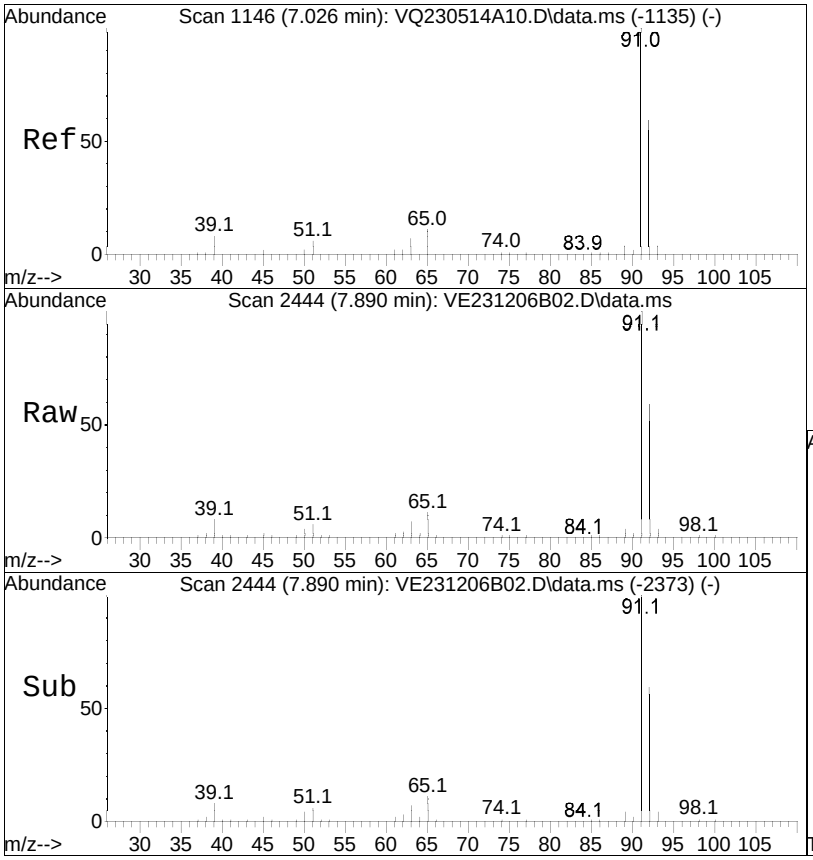


#62
cis-1,3-Dichloropropene
Concen: 10.76 ug/L
RT: 7.620 min Scan# 2347
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 75 Resp: 104518

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.0	37.6
39	42.0	50.6	75.8#

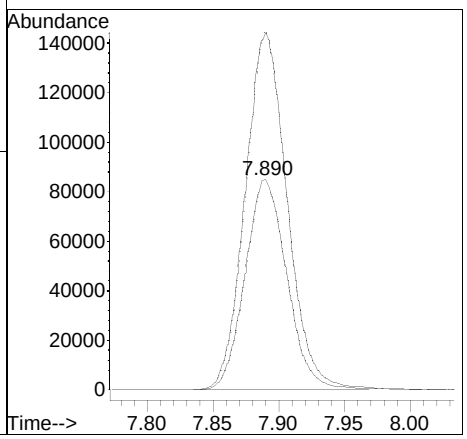


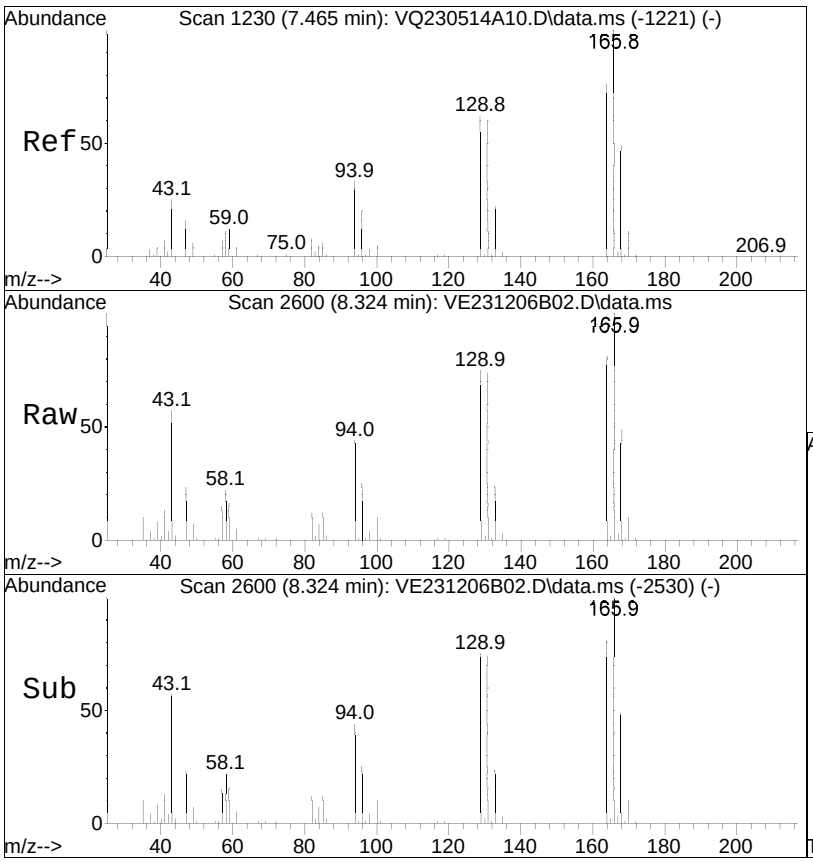


#65
Toluene
Concen: 11.27 ug/L
RT: 7.890 min Scan# 2444
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 92 Resp: 185885

Ion	Ratio	Lower	Upper
92	100		
91	170.7	135.9	203.9

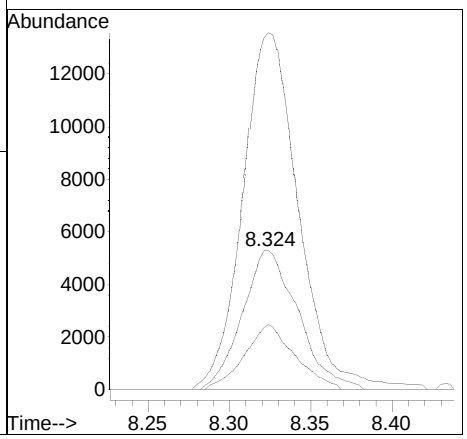


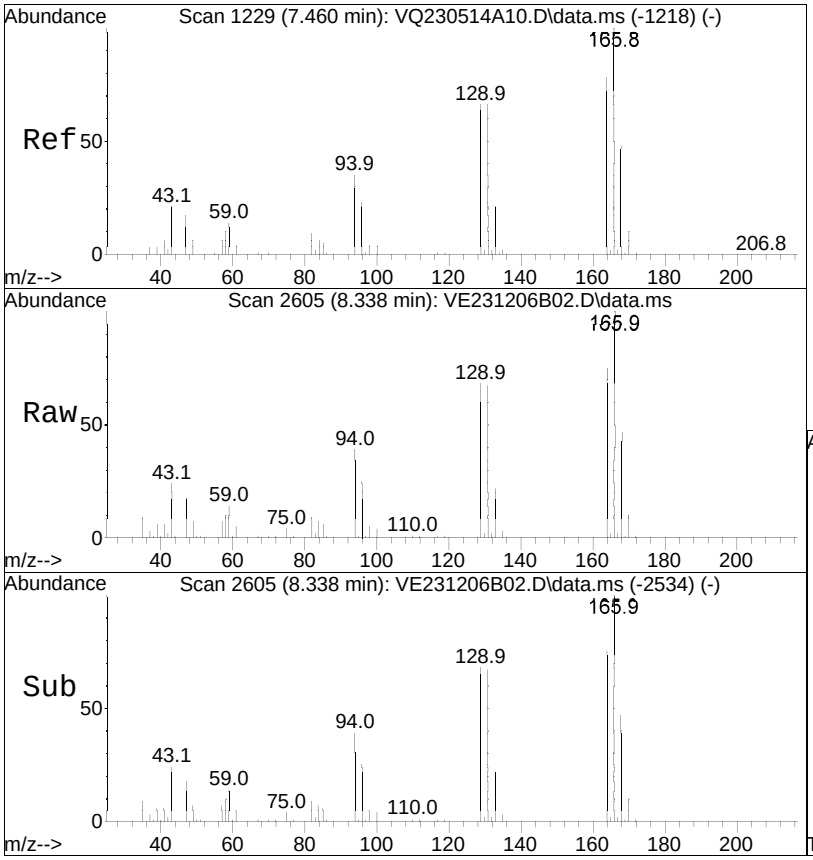


#66
4-Methyl-2-pentanone
Concen: 6.75 ug/L
RT: 8.324 min Scan# 2600
Delta R.T. -0.006 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 58 Resp: 12616

Ion	Ratio	Lower	Upper
58	100		
100	42.4	30.1	45.1
43	256.3	226.7	340.1

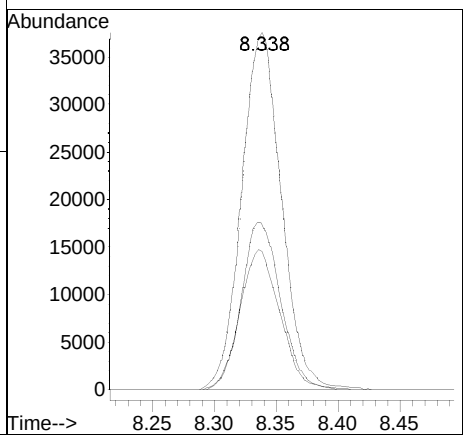


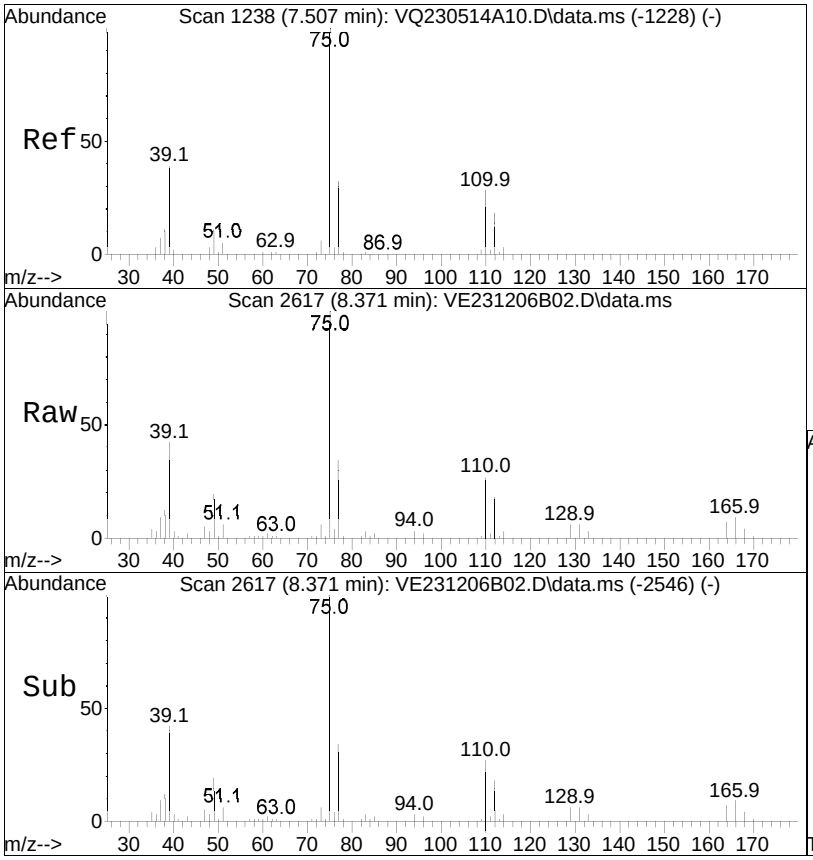


#67
Tetrachloroethene
Concen: 11.34 ug/L
RT: 8.338 min Scan# 2605
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:166 Resp: 83994

Ion	Ratio	Lower	Upper
166	100		
168	46.6	28.0	68.0
94	39.7	27.8	67.8

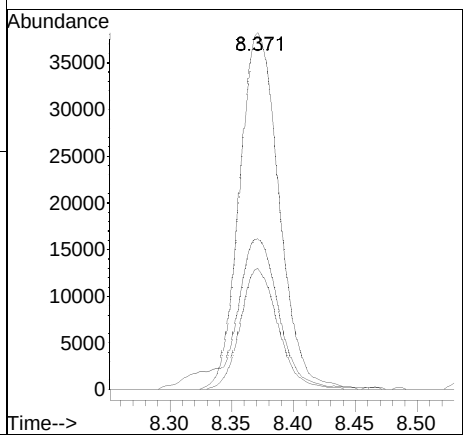


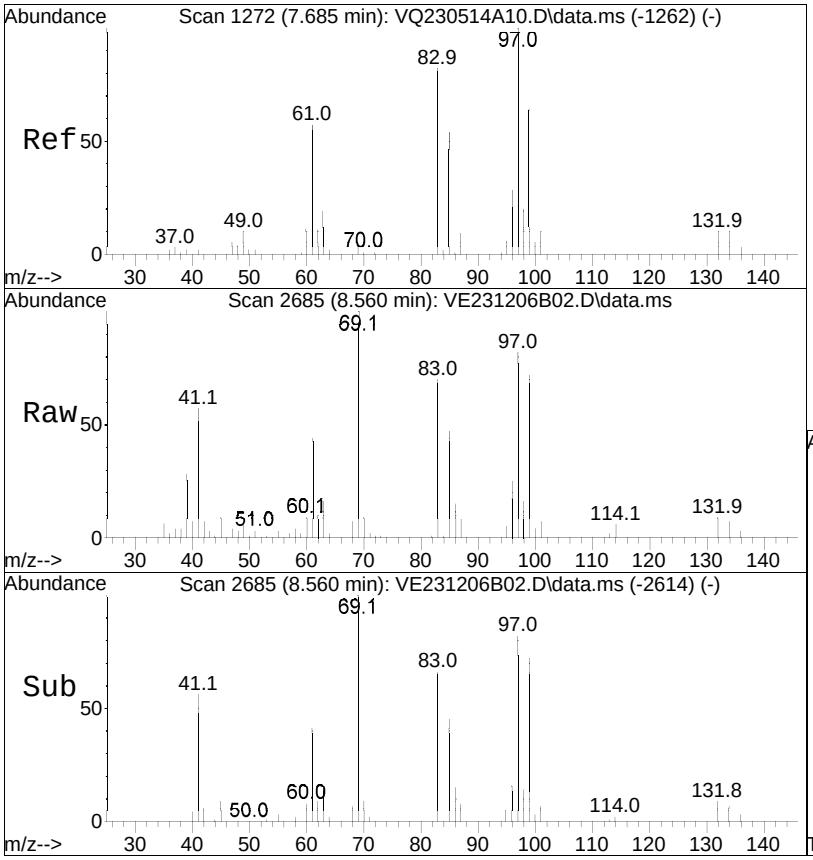


#69
trans-1,3-Dichloropropene
Concen: 10.16 ug/L
RT: 8.371 min Scan# 2617
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 75 Resp: 84834

Ion	Ratio	Lower	Upper
75	100		
77	32.4	11.4	51.4
39	47.3	44.3	84.3

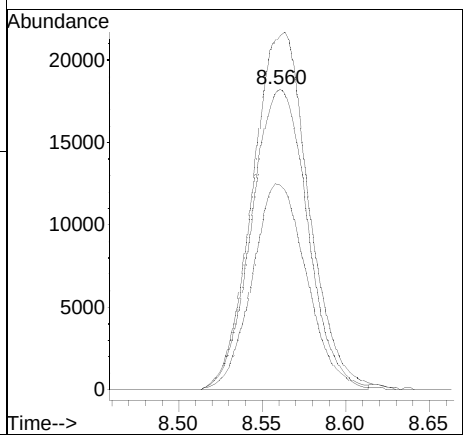


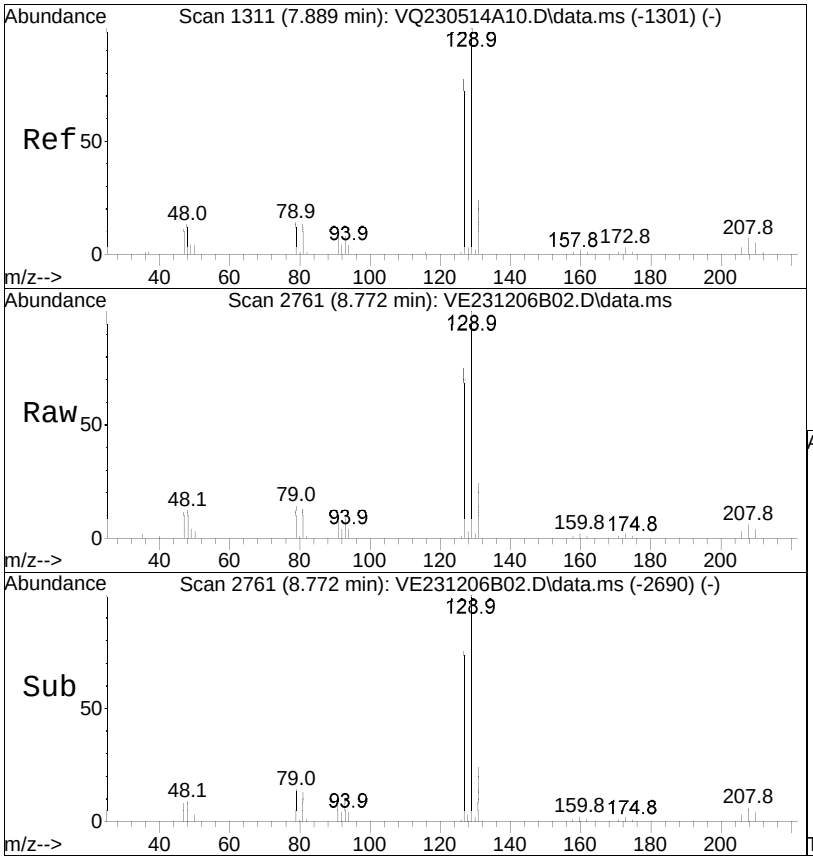


#72
1,1,2-Trichloroethane
Concen: 10.08 ug/L
RT: 8.560 min Scan# 2685
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 83 Resp: 42256

Ion	Ratio	Lower	Upper
83	100		
97	120.2	99.2	139.2
85	67.1	48.7	88.7

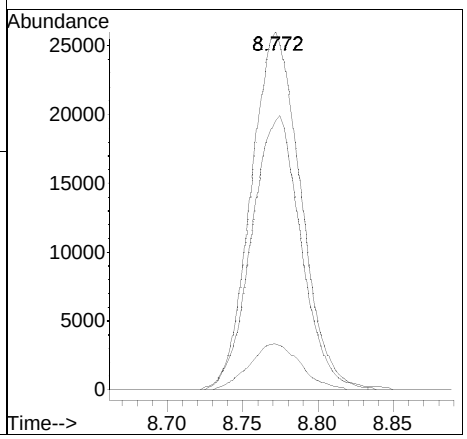


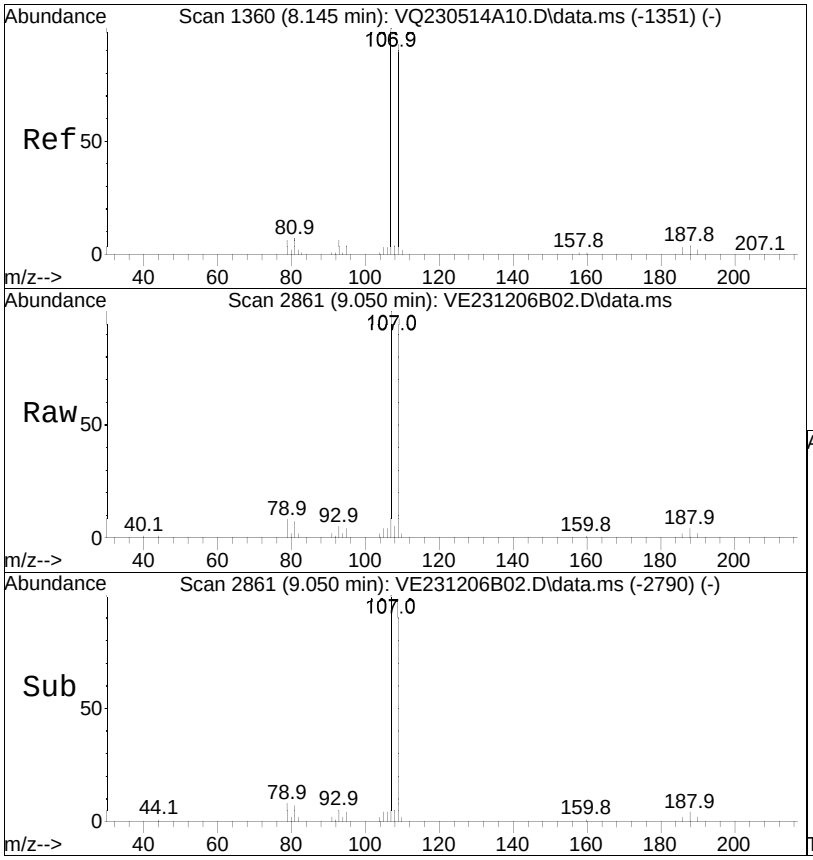


#73
Chlorodibromomethane
Concen: 9.99 ug/L
RT: 8.772 min Scan# 2761
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:129 Resp: 59106

Ion	Ratio	Lower	Upper
129	100		
81	13.4	0.0	36.2
127	76.4	58.0	98.0

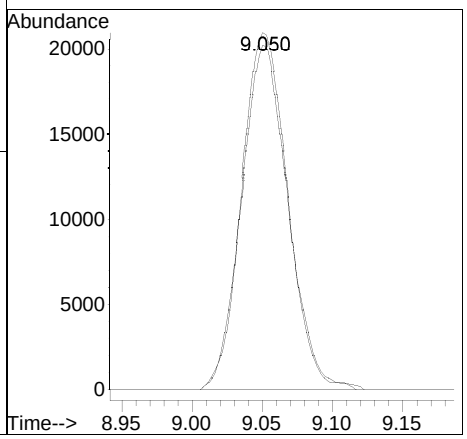


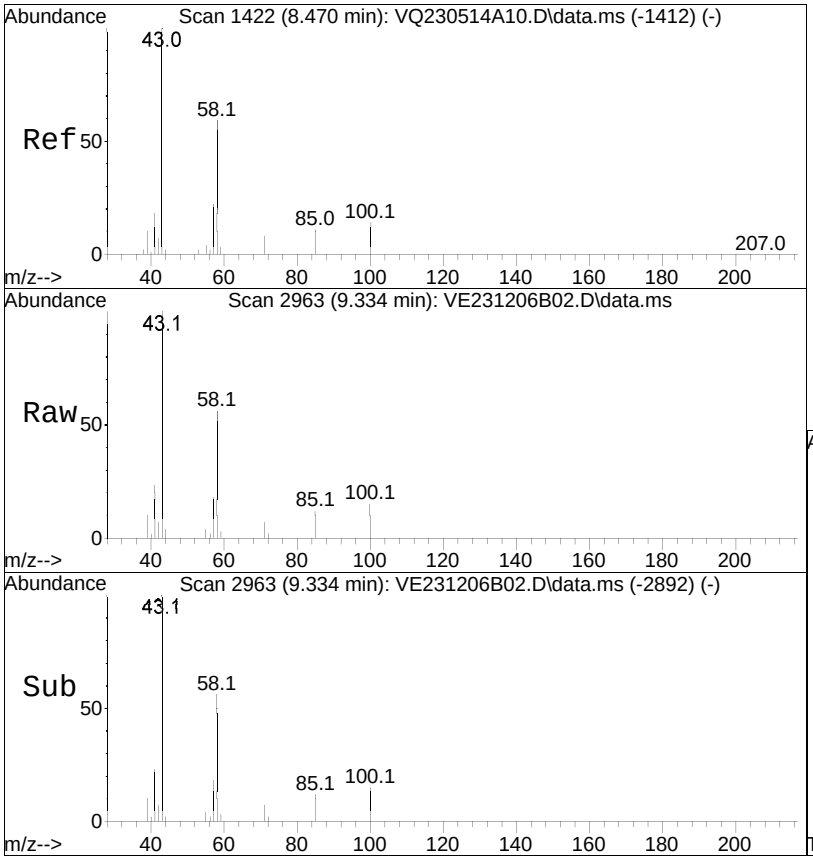


#75
1,2-Dibromoethane
Concen: 10.03 ug/L
RT: 9.050 min Scan# 2861
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:107 Resp: 48355

Ion	Ratio	Lower	Upper
107	100		
109	94.7	75.7	113.5

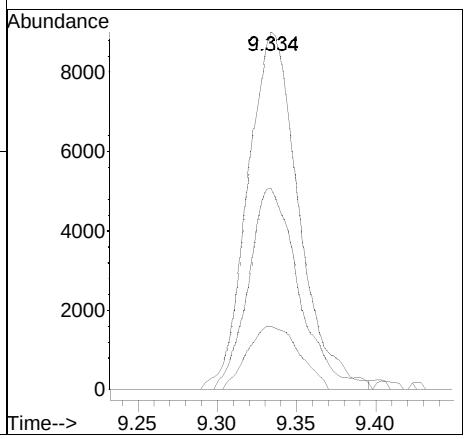


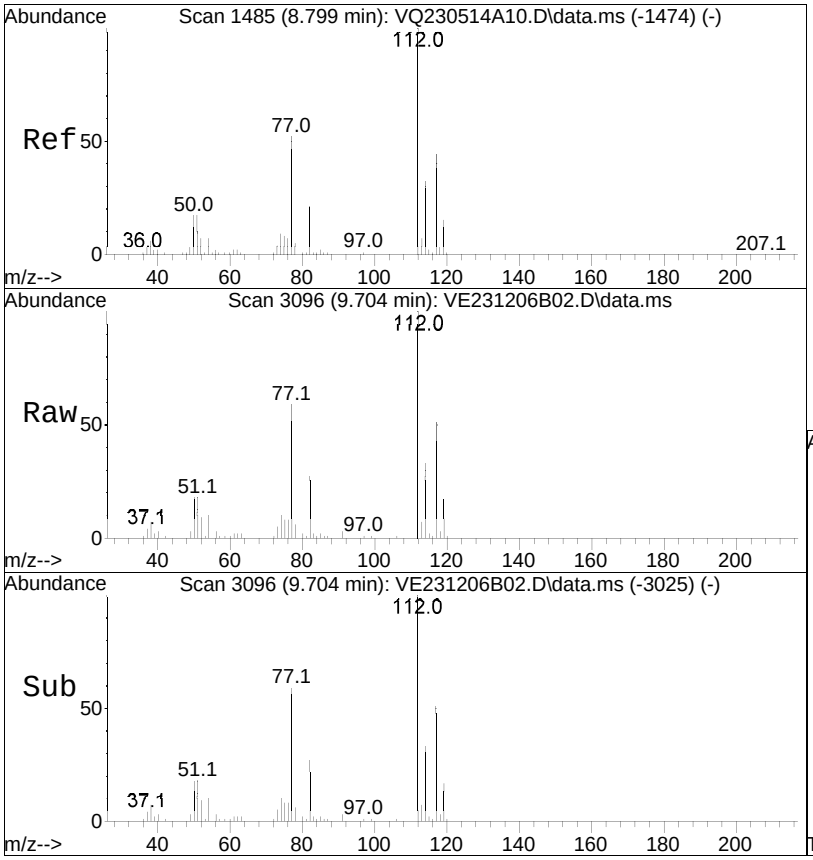


#77
2-Hexanone
Concen: 6.01 ug/L
RT: 9.334 min Scan# 2963
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 43 Resp: 19998

Ion	Ratio	Lower	Upper
43	100		
58	55.3	38.2	57.4
57	18.1	14.1	21.1

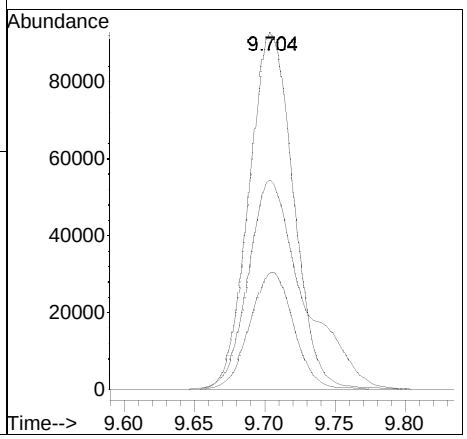


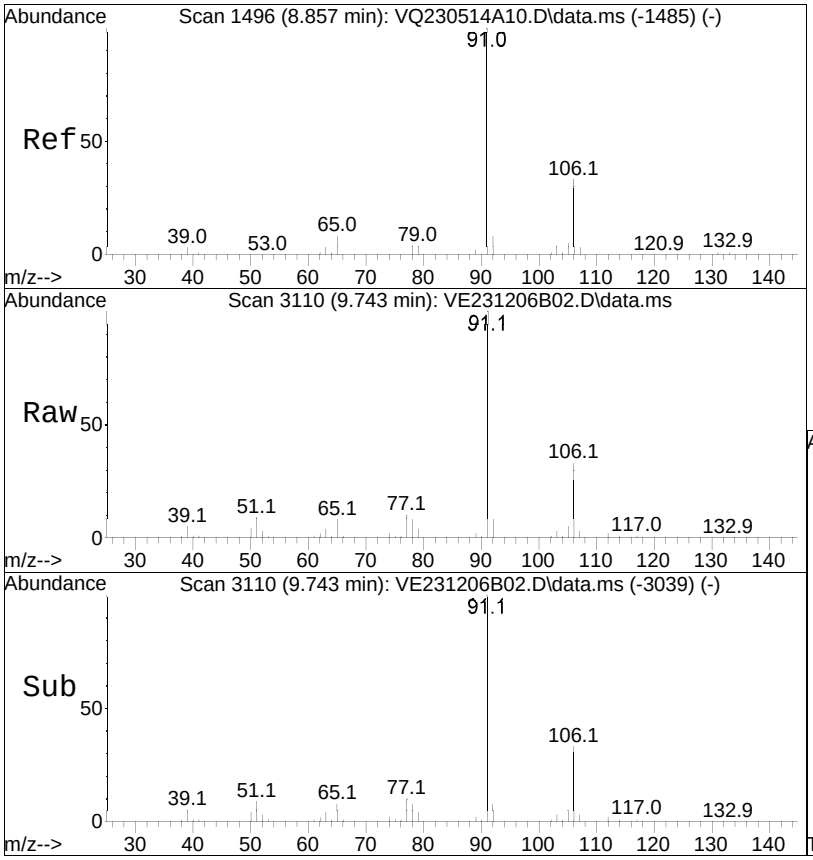


#78
Chlorobenzene
Concen: 11.24 ug/L
RT: 9.704 min Scan# 3096
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:112 Resp: 202943

Ion	Ratio	Lower	Upper
112	100		
77	73.8	50.7	76.1
114	32.7	25.6	38.4

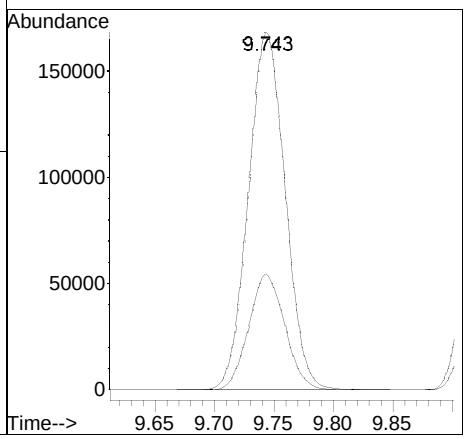


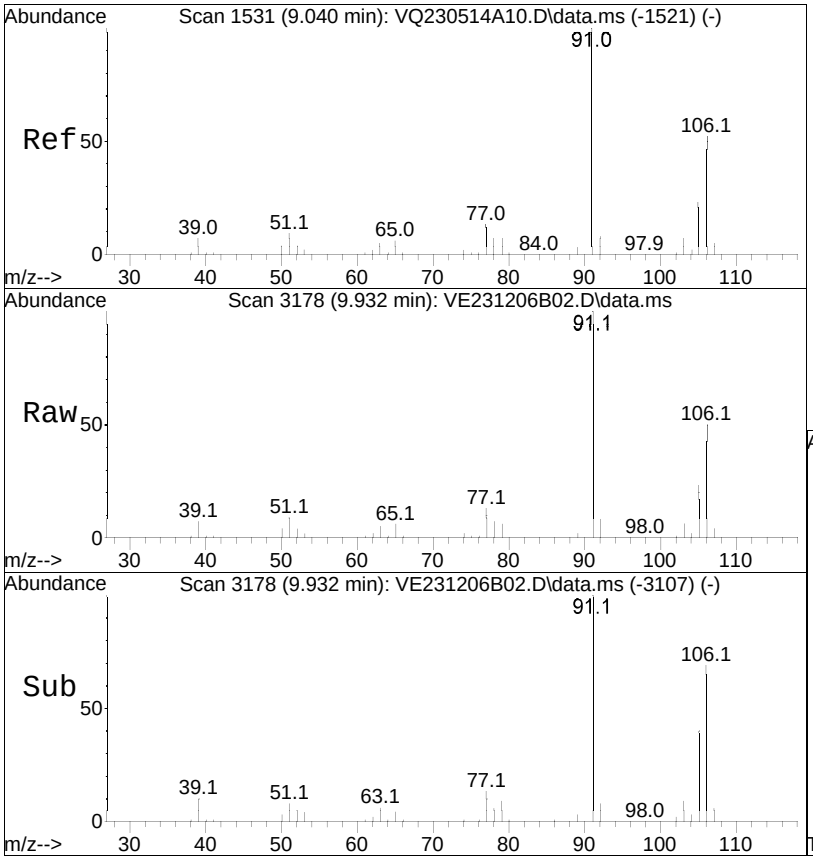


#79
Ethylbenzene
Concen: 11.31 ug/L
RT: 9.743 min Scan# 3110
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 91 Resp: 357929

Ion	Ratio	Lower	Upper
91	100		
106	32.1	24.6	36.8

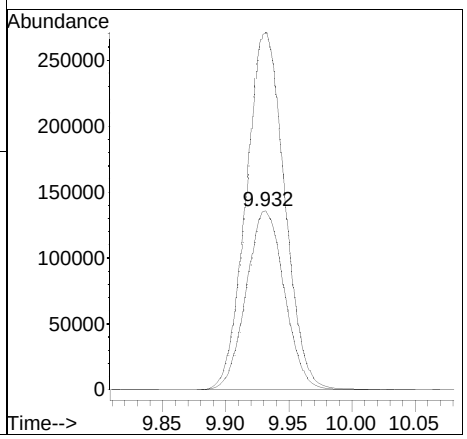


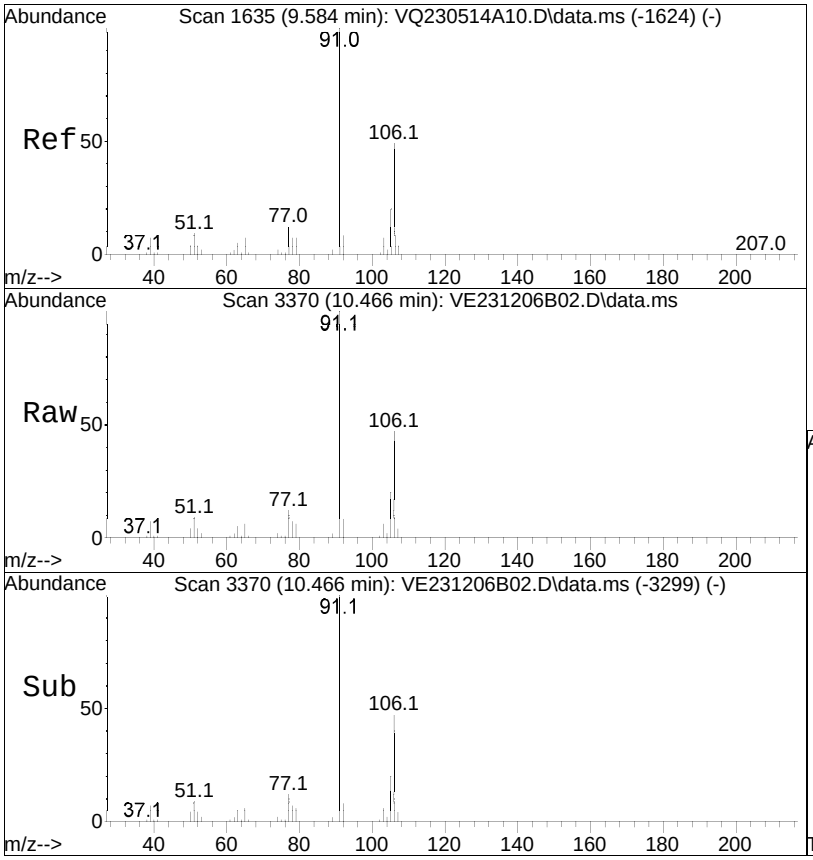


#81
p/m Xylene
Concen: 23.44 ug/L
RT: 9.932 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:106 Resp: 283701

Ion	Ratio	Lower	Upper
106	100		
91	200.3	165.5	248.3

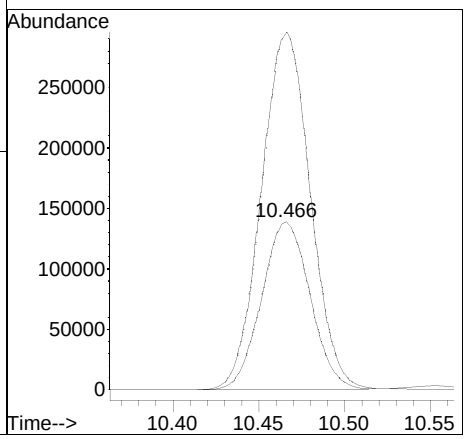


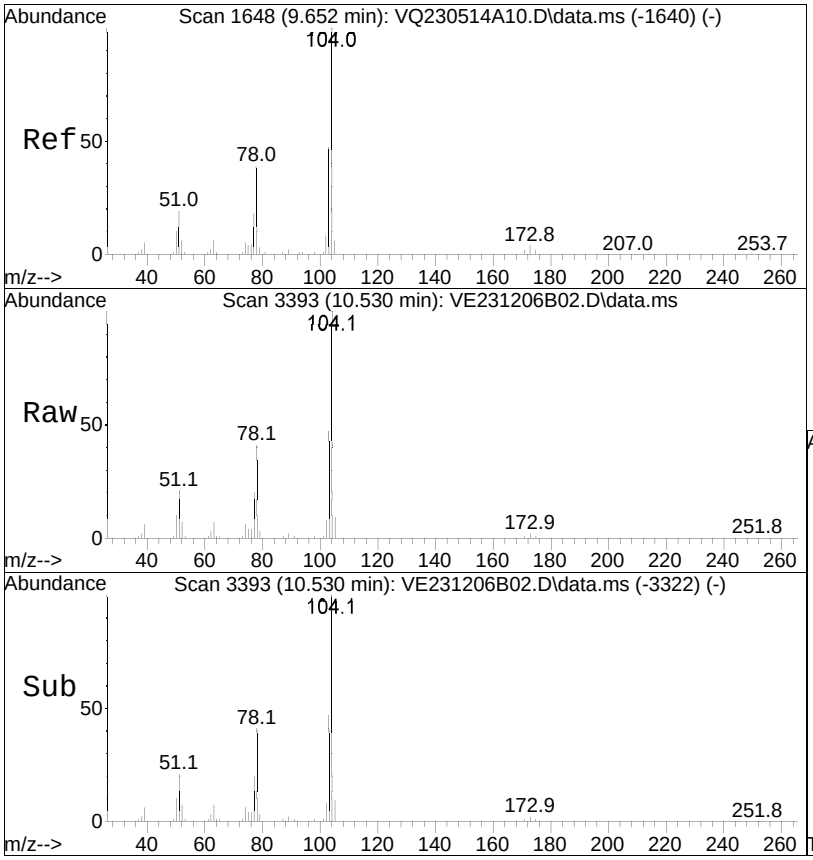


#82
o Xylene
Concen: 23.29 ug/L
RT: 10.466 min Scan# 3370
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:106 Resp: 271962

Ion	Ratio	Lower	Upper
106	100		
91	214.5	176.5	264.7

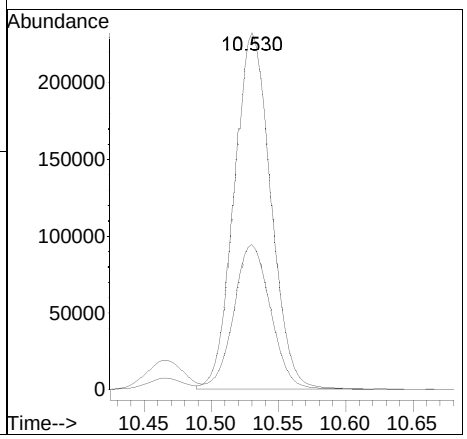


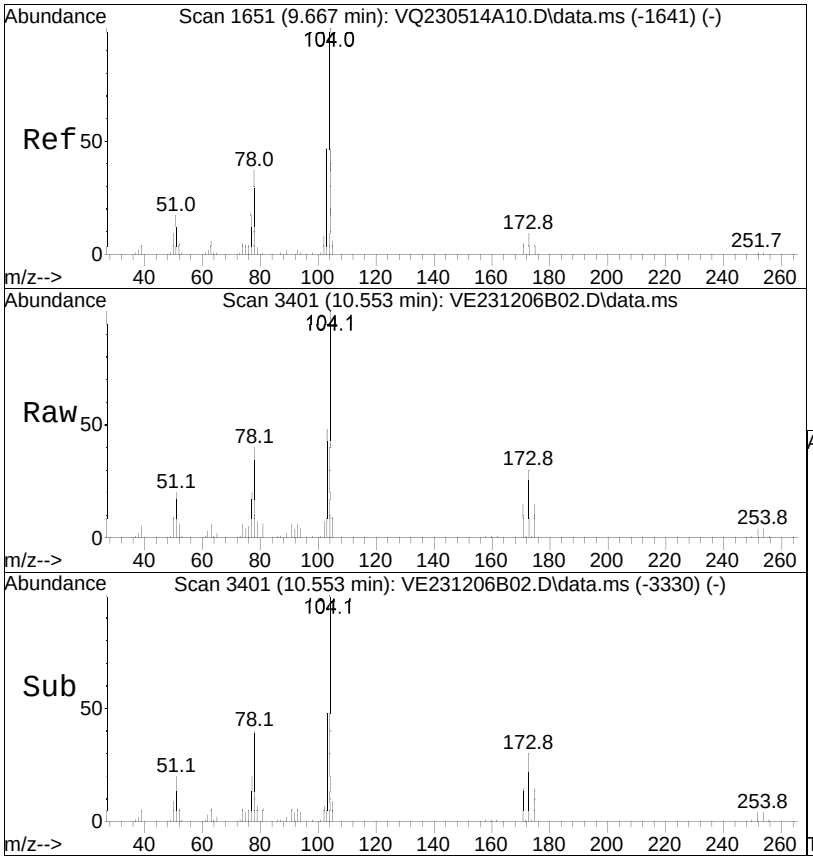


#83
Styrene
Concen: 23.69 ug/L
RT: 10.530 min Scan# 3393
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:104 Resp: 438295

Ion	Ratio	Lower	Upper
104	100		
78	41.1	37.5	56.3

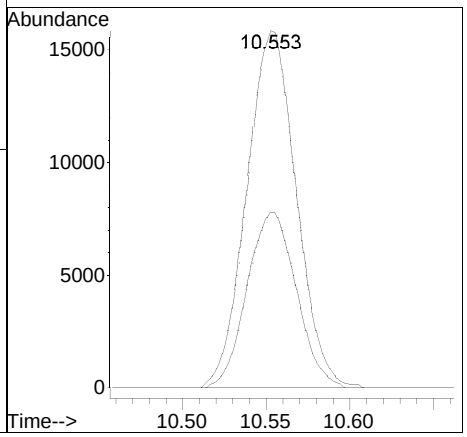


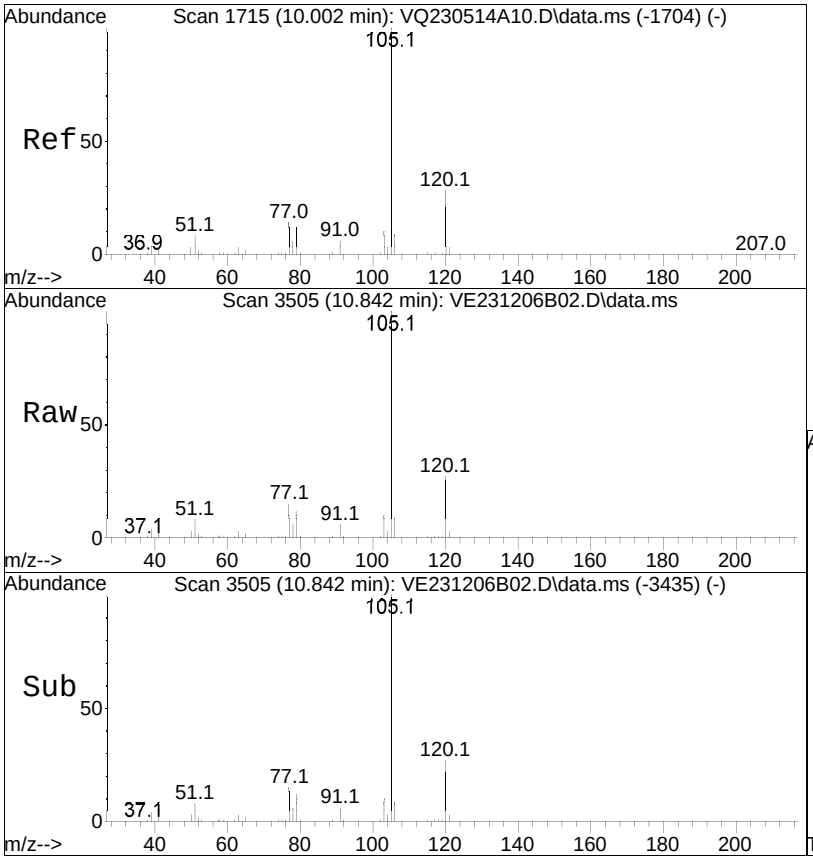


#85
Bromoform
Concen: 9.20 ug/L
RT: 10.553 min Scan# 3401
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:173 Resp: 32591

Ion	Ratio	Lower	Upper
173	100		
175	48.9	29.0	69.0

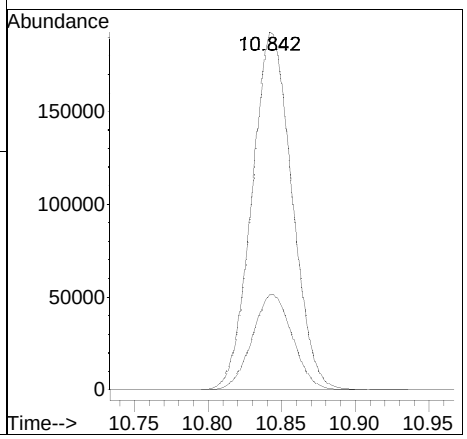


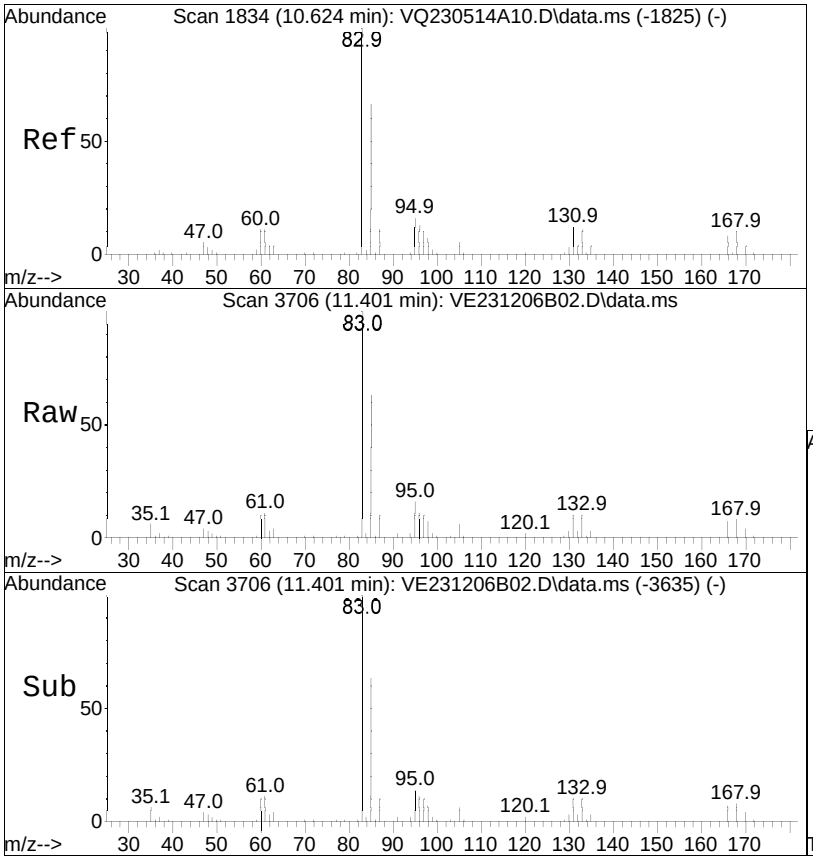


#87
Isopropylbenzene
Concen: 10.98 ug/L
RT: 10.842 min Scan# 3505
Delta R.T. -0.005 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:105 Resp: 360658

Ion	Ratio	Lower	Upper
105	100		
120	27.0	6.5	46.5

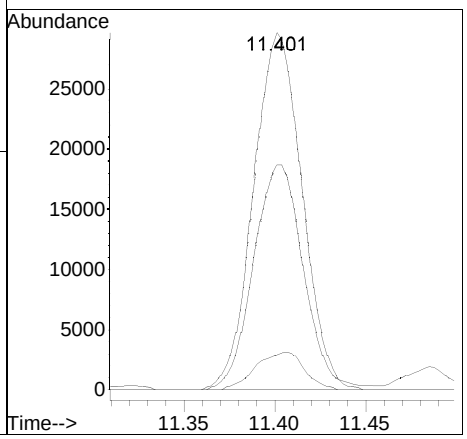


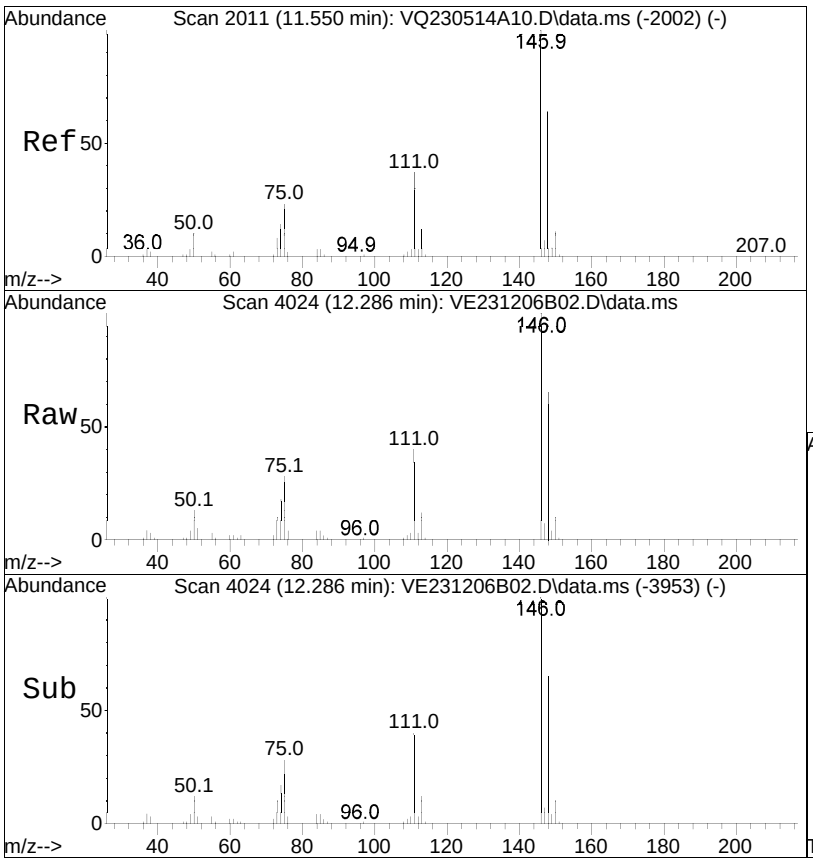


#92
1,1,2,2-Tetrachloroethane
Concen: 10.52 ug/L
RT: 11.401 min Scan# 3706
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion: 83 Resp: 54841

Ion	Ratio	Lower	Upper
83	100		
131	10.6	0.0	31.0
85	65.0	45.4	85.4

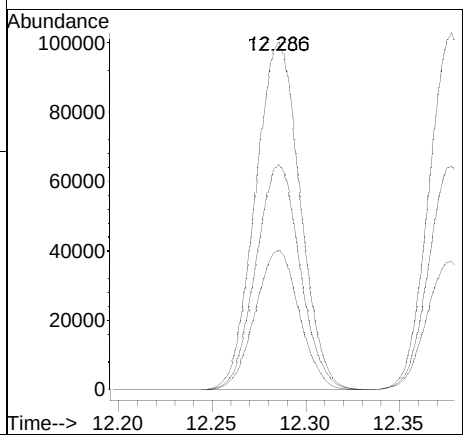


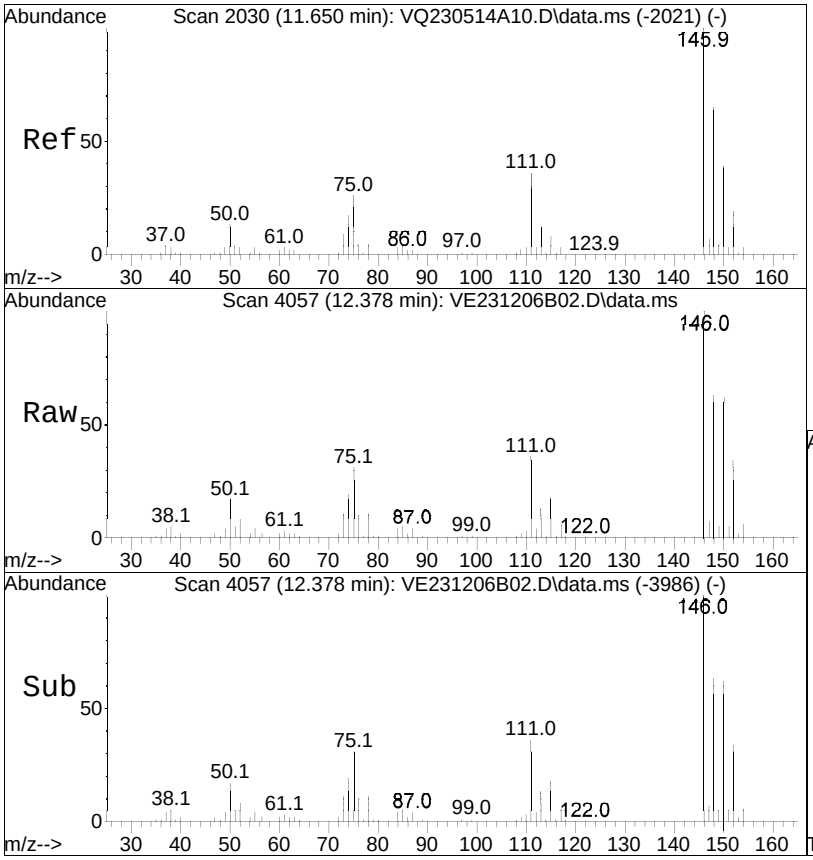


#105
1,3-Dichlorobenzene
Concen: 10.75 ug/L
RT: 12.286 min Scan# 4024
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:146 Resp: 166739

Ion	Ratio	Lower	Upper
146	100		
111	39.5	27.0	56.0
148	63.8	41.2	85.6

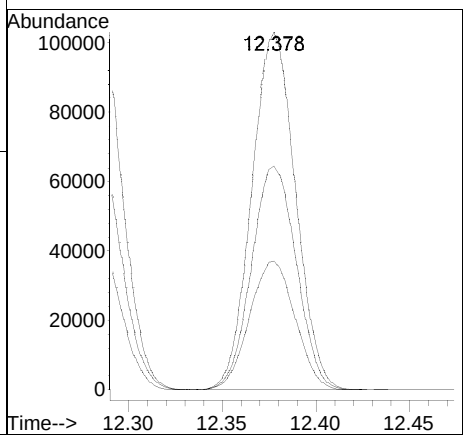


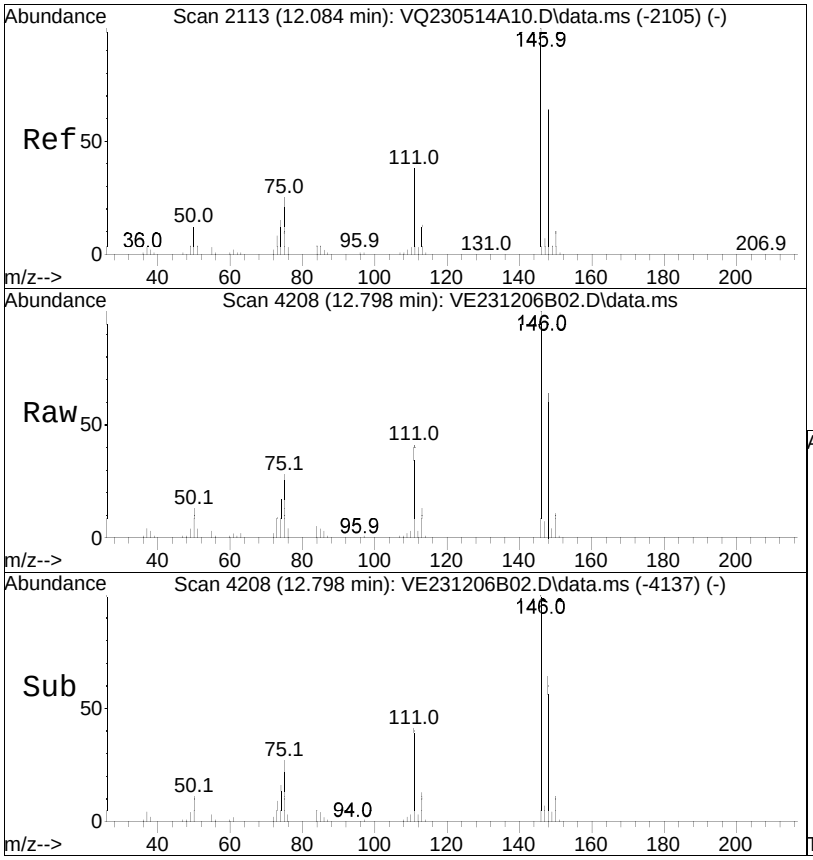


#106
1,4-Dichlorobenzene
Concen: 10.76 ug/L
RT: 12.378 min Scan# 4057
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:146 Resp: 167238

Ion	Ratio	Lower	Upper
146	100		
111	37.6	32.3	48.5
148	64.2	51.0	76.6

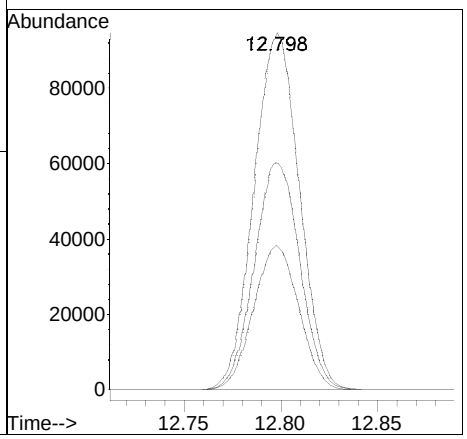


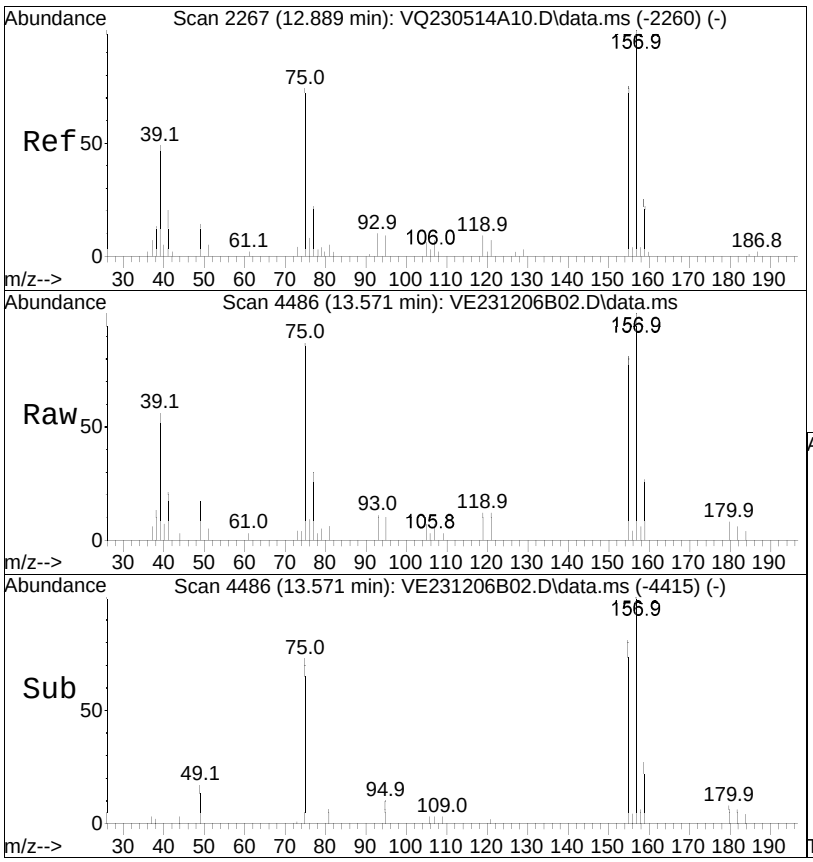


#109
1,2-Dichlorobenzene
Concen: 10.70 ug/L
RT: 12.798 min Scan# 4208
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:146 Resp: 153833

Ion	Ratio	Lower	Upper
146	100		
111	40.5	27.7	57.5
148	63.6	41.3	85.7

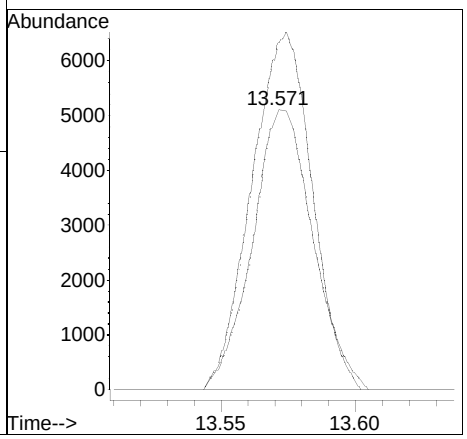


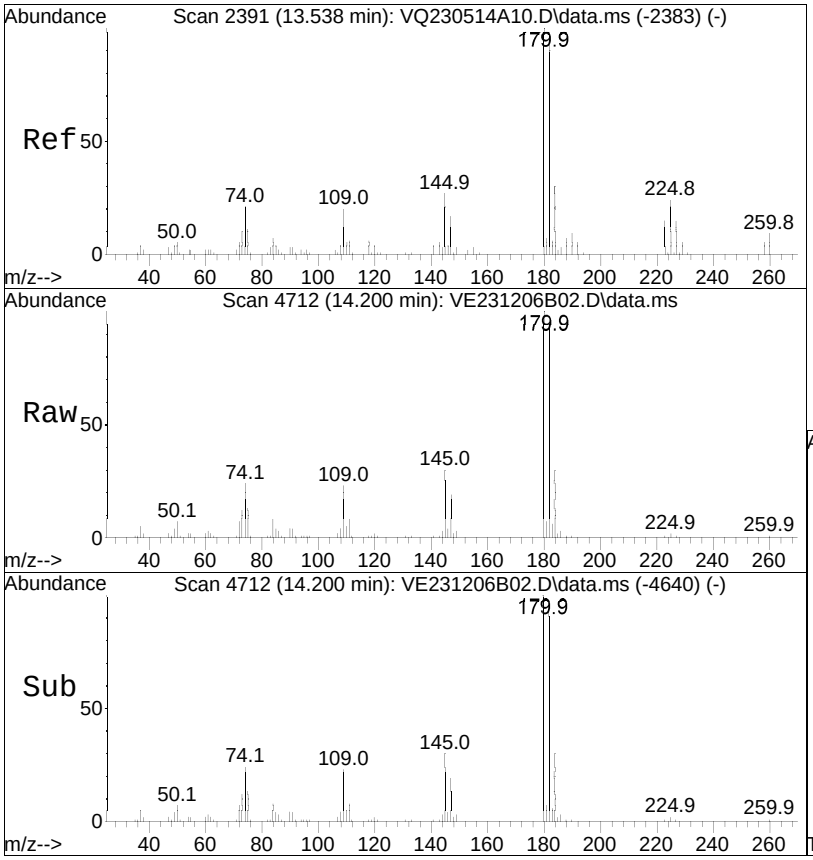


#111
1,2-Dibromo-3-chloropropane
Concen: 9.53 ug/L
RT: 13.571 min Scan# 4486
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:155 Resp: 7892

Ion	Ratio	Lower	Upper
155	100		
157	129.6	100.1	150.1

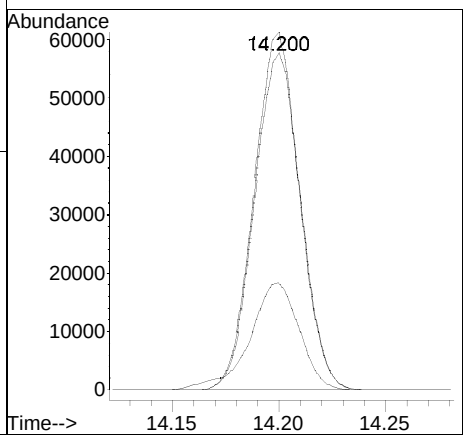


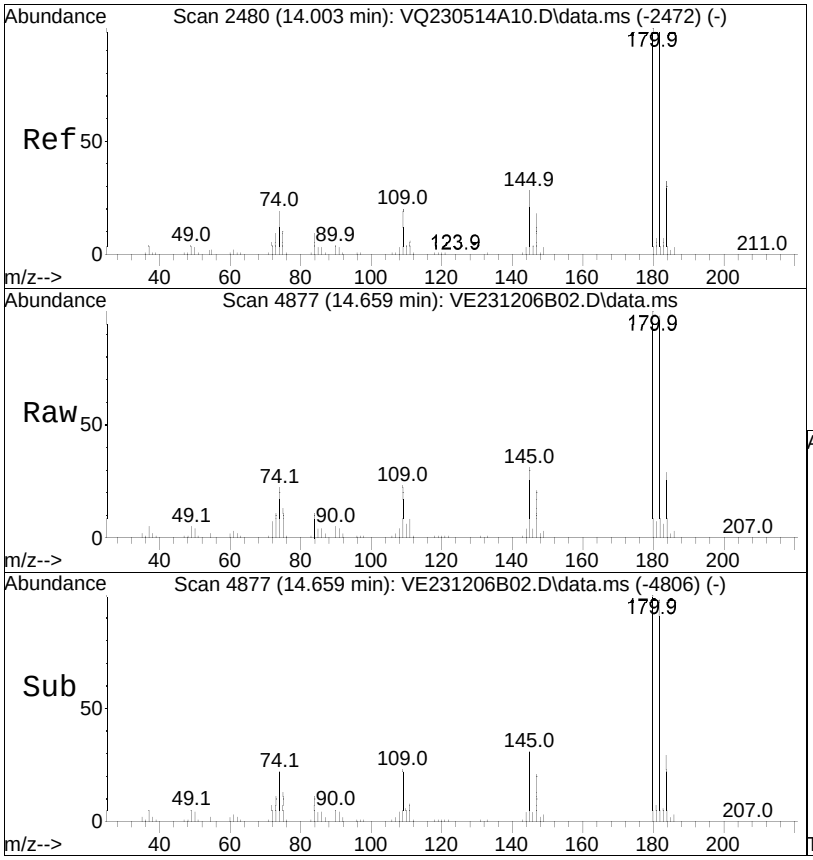


#114
1,2,4-Trichlorobenzene
Concen: 10.36 ug/L
RT: 14.200 min Scan# 4712
Delta R.T. 0.000 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:180 Resp: 90691

Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.0	114.0
145	32.5	28.4	42.6

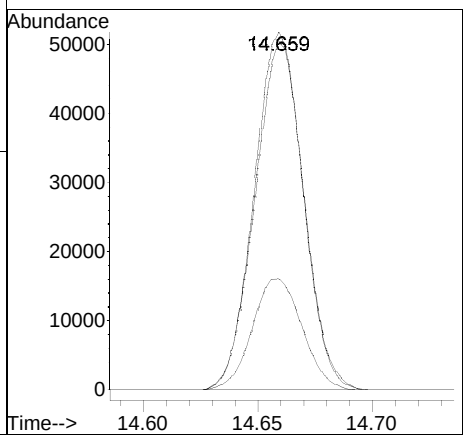




#116
1,2,3-Trichlorobenzene
Concen: 10.07 ug/L
RT: 14.659 min Scan# 4877
Delta R.T. -0.003 min
Lab File: VE231206B02.D
Acq: 6 Dec 2023 9:45 am

Tgt Ion:180 Resp: 76821

Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.5	114.7
145	31.7	26.6	39.8

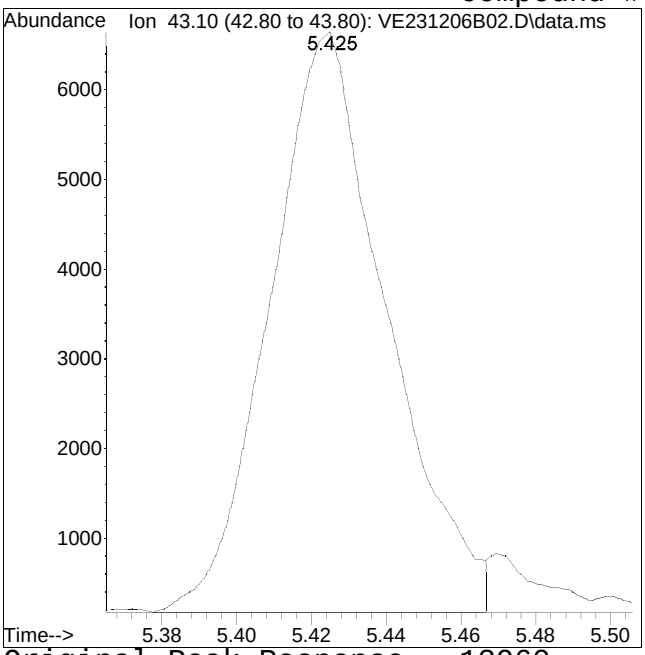


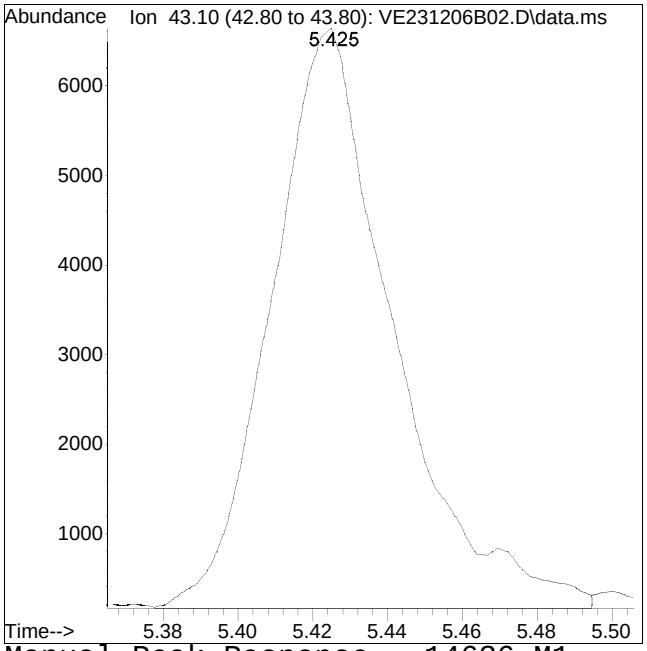
Manual Integration Report

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B02.D
Date Inj'd : 12/6/2023 9:45 am
Sample : WG1860843-3,31,10,10

QMethod : Elaine_231127N_8260.m
Operator : ELAINE:PID
Instrument : Elaine
Quant Date : 12/6/2023 10:50 am

Compound #42: 2-Butanone





Original Peak Response = 13960 Manual Peak Response = 14636 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A02.D
Acq On : 7 Dec 2023 6:55 am
Operator : ELAINE:MJV
Sample : WG1861020-4,31,10,10
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 08:12:47 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231207A\VE231207A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	280812	10.000	ug/L	0.00
Standard Area 1 = 294846			Recovery = 95.24%			
63) Chlorobenzene-d5	9.682	117	253579	10.000	ug/L	0.00
Standard Area 1 = 260022			Recovery = 97.52%			
84) 1,4-Dichlorobenzene-d4	12.361	152	148363	10.000	ug/L	0.00
Standard Area 1 = 151851			Recovery = 97.70%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	74145	10.577	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.77%			
47) 1,2-Dichloroethane-d4	5.839	65	73353	9.266	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.66%			
64) Toluene-d8	7.832	98	286436	9.840	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.40%			
88) 4-Bromofluorobenzene	11.159	95	106404	9.480	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.655	85	45665	6.559	ug/L	97
3) Chloromethane	1.853	50	54727	6.871	ug/L	97
4) Vinyl chloride	1.930	62	60660	8.387	ug/L	99
5) Bromomethane	2.250	94	24289	10.761	ug/L	98
6) Chloroethane	2.373	64	37268	10.058	ug/L	95
7) Trichlorofluoromethane	2.517	101	88264	12.018	ug/L	98
10) 1,1-Dichloroethene	3.018	96	53585	11.427	ug/L	81
11) Carbon disulfide	3.049	76	166769	11.218	ug/L	98
12) Freon-113	3.057	101	62067	11.900	ug/L	100
15) Methylene chloride	3.589	84	65572	11.201	ug/L	87
17) Acetone	3.625	43	10405	7.445	ug/L #	87
18) trans-1,2-Dichloroethene	3.742	96	59794	11.440	ug/L	87
19) Methyl acetate	3.747	43	23225	7.041	ug/L	95
21) Methyl tert-butyl ether	3.842	73	134707	10.610	ug/L	94
25) 1,1-Dichloroethane	4.337	63	116329	10.312	ug/L	98
30) cis-1,2-Dichloroethene	4.863	96	69922	11.659	ug/L	84
33) Bromochloromethane	5.055	128	31704	12.160	ug/L	88
34) Cyclohexane	5.063	56	102833	8.053	ug/L	91
35) Chloroform	5.127	83	111130	11.691	ug/L	95
37) Carbon tetrachloride	5.266	117	85433	12.002	ug/L	98

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A02.D
Acq On : 7 Dec 2023 6:55 am
Operator : ELAINE:MJV
Sample : WG1861020-4,31,10,10
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 08:12:47 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231207A\VE231207A01.D
Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	5.333	97	98599	11.557	ug/L		96
42) 2-Butanone	5.425	43	15145	7.591	ug/L	#	73
45) Benzene	5.703	78	256408	11.566	ug/L		94
48) 1,2-Dichloroethane	5.909	62	69619	9.483	ug/L		98
51) Methyl cyclohexane	6.299	83	102923	10.572	ug/L		90
52) Trichloroethene	6.304	95	63214	11.207	ug/L		98
55) 1,2-Dichloropropane	6.855	63	60067	9.371	ug/L		96
58) Bromodichloromethane	6.925	83	78954	11.073	ug/L		98
61) 1,4-Dioxane	7.133	88	17960	542.478	ug/L	#	85
62) cis-1,3-Dichloropropene	7.620	75	90654	10.707	ug/L	#	84
65) Toluene	7.890	92	160832	11.154	ug/L		99
66) 4-Methyl-2-pentanone	8.324	58	10843	6.634	ug/L	#	87
67) Tetrachloroethene	8.338	166	69403	10.726	ug/L		95
69) trans-1,3-Dichloropropene	8.371	75	76509	10.484	ug/L	#	81
72) 1,1,2-Trichloroethane	8.560	83	37866	10.331	ug/L		98
73) Chlorodibromomethane	8.772	129	52455	10.143	ug/L		99
75) 1,2-Dibromoethane	9.053	107	42753	10.143	ug/L		99
77) 2-Hexanone	9.334	43	18442	6.346	ug/L		96
78) Chlorobenzene	9.704	112	175991	11.148	ug/L		90
79) Ethylbenzene	9.743	91	306527	11.079	ug/L		99
81) p/m Xylene	9.932	106	239869	22.679	ug/L		97
82) o Xylene	10.466	106	232668	22.797	ug/L		96
83) Styrene	10.530	104	376460	23.278	ug/L		93
85) Bromoform	10.553	173	29171	9.346	ug/L		99
87) Isopropylbenzene	10.845	105	303985	10.507	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.401	83	47244	10.291	ug/L		96
105) 1,3-Dichlorobenzene	12.286	146	146328	10.715	ug/L		99
106) 1,4-Dichlorobenzene	12.378	146	146752	10.726	ug/L		99
109) 1,2-Dichlorobenzene	12.798	146	133744	10.559	ug/L		98
111) 1,2-Dibromo-3-chloropr...	13.574	155	6973	9.557	ug/L		92
114) 1,2,4-Trichlorobenzene	14.200	180	74963	9.720	ug/L		98
116) 1,2,3-Trichlorobenzene	14.659	180	65803	9.791	ug/L		97

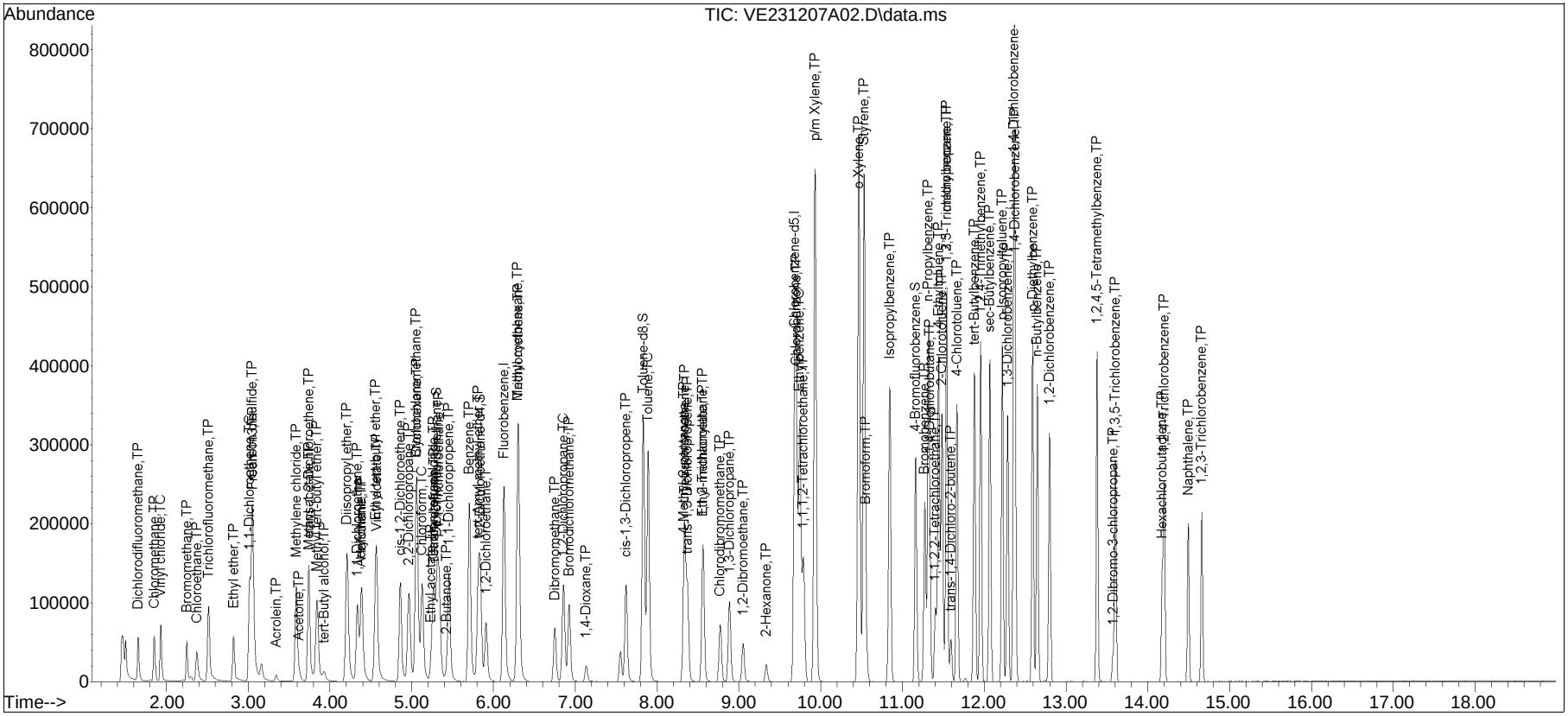
(#) = qualifier out of range (m) = manual integration (+) = signals summed

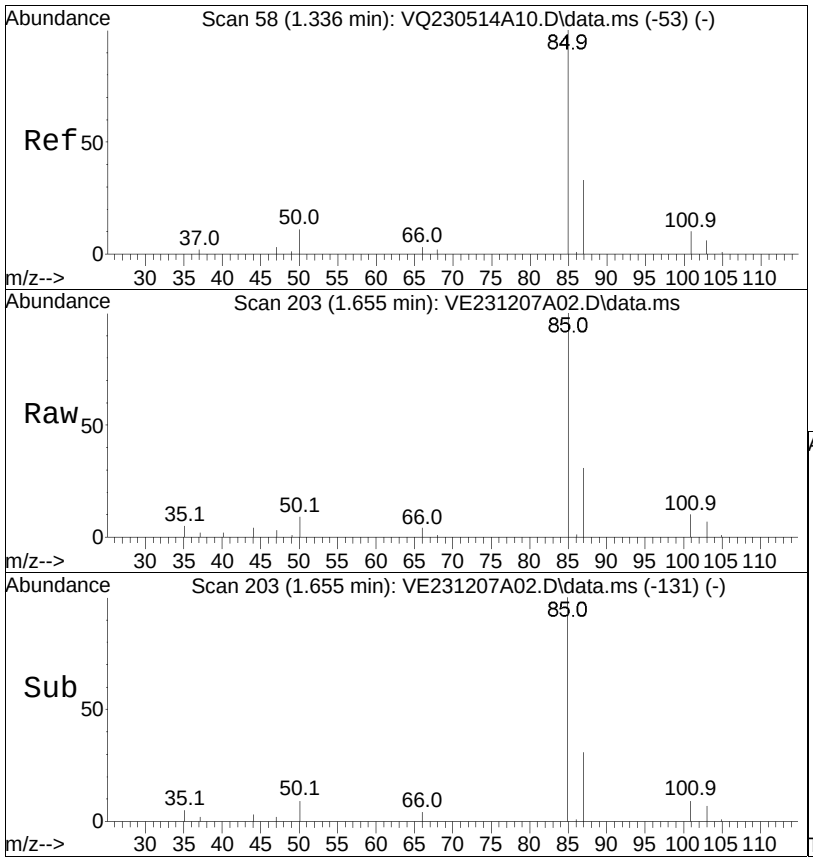
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231207A\
Data File : VE231207A02.D
Acq On : 7 Dec 2023 6:55 am
Operator : ELAINE:MJV
Sample : WG1861020-4,31,10,10
Misc : WG1861020,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 07 08:12:47 2023
Quant Method : K:\Elaine\2023\231207A\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-Curve-2CEVE-IODO - Curve-2CEVE-IODO•

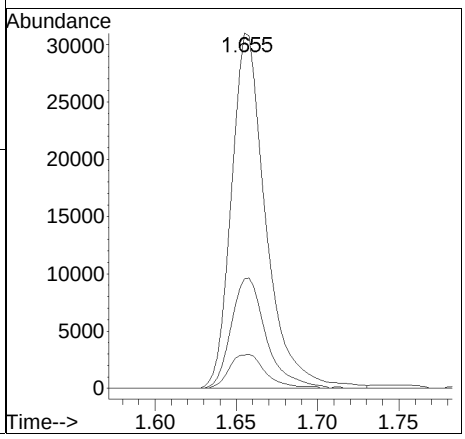


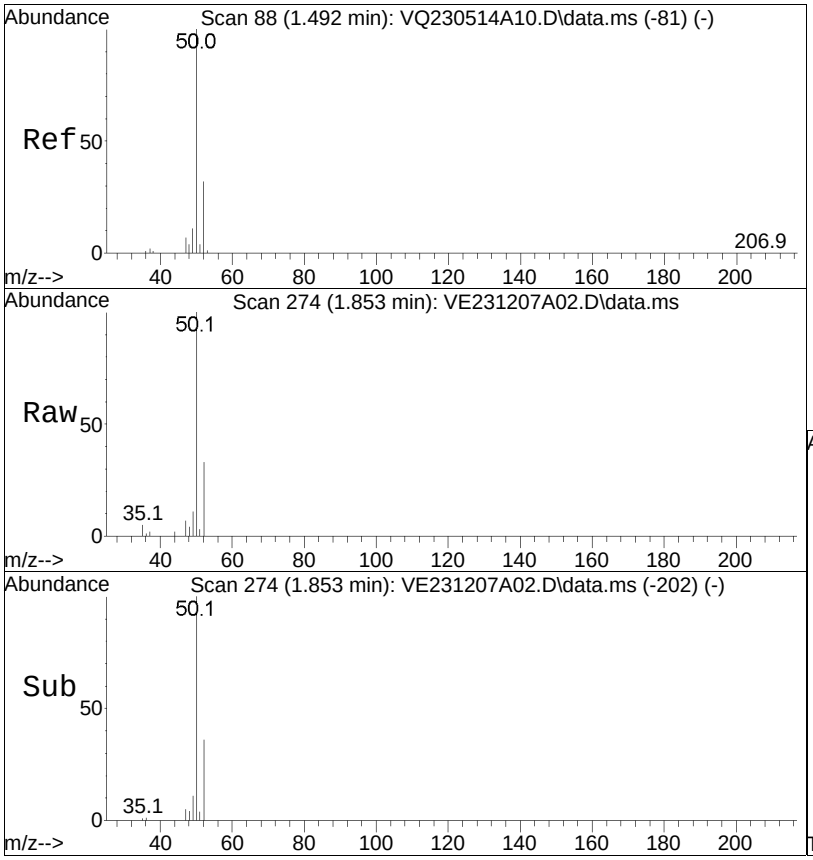


#2
Dichlorodifluoromethane
Concen: 6.56 ug/L
RT: 1.655 min Scan# 203
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 85 Resp: 45665

Ion	Ratio	Lower	Upper
85	100		
87	31.7	20.9	43.5
50	10.2	8.6	18.0

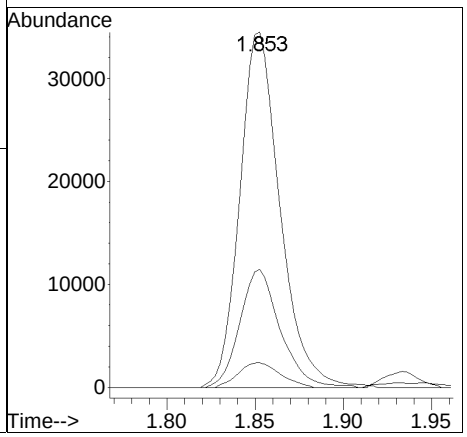


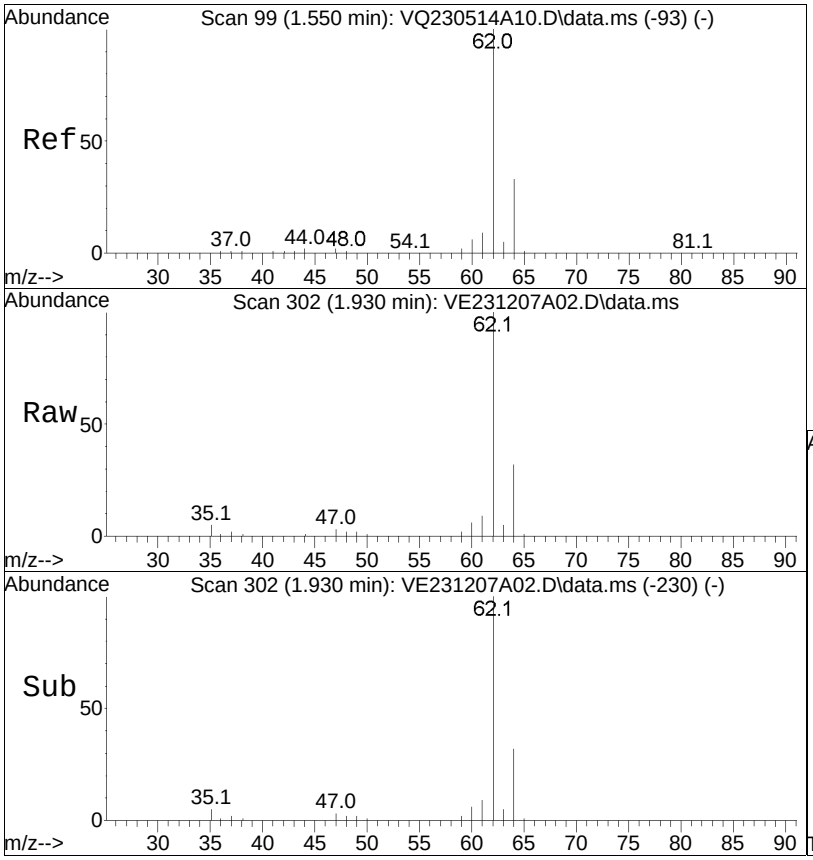


#3
Chloromethane
Concen: 6.87 ug/L
RT: 1.853 min Scan# 274
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 50 Resp: 54727

Ion	Ratio	Lower	Upper
50	100		
52	33.3	11.5	51.5
47	7.2	0.0	28.2

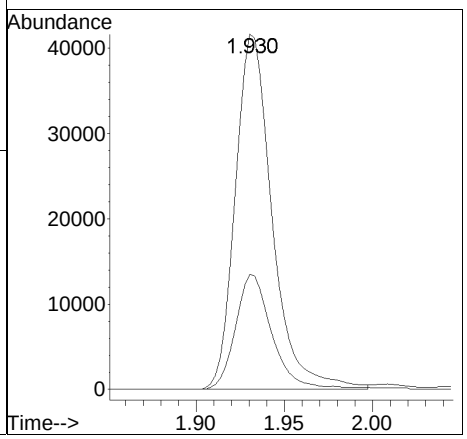


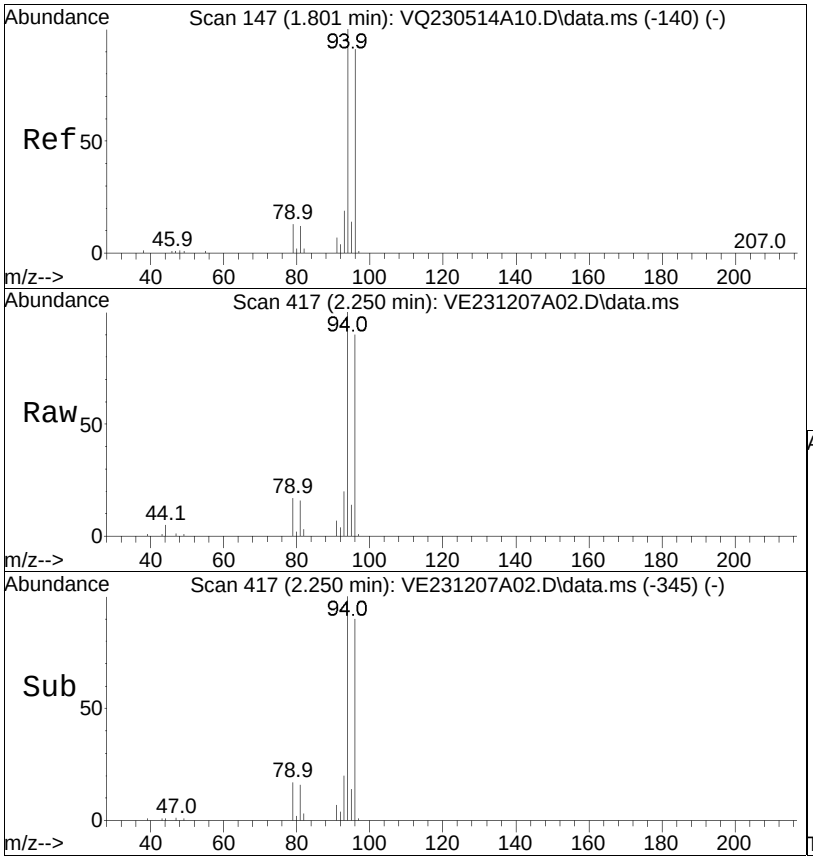


#4
Vinyl chloride
Concen: 8.39 ug/L
RT: 1.930 min Scan# 302
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 62 Resp: 60660

Ion	Ratio	Lower	Upper
62	100		
64	31.8	12.4	52.4

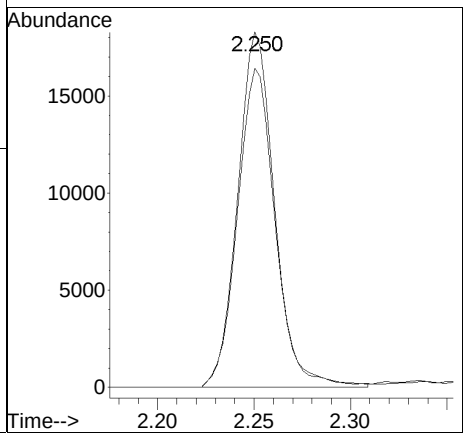


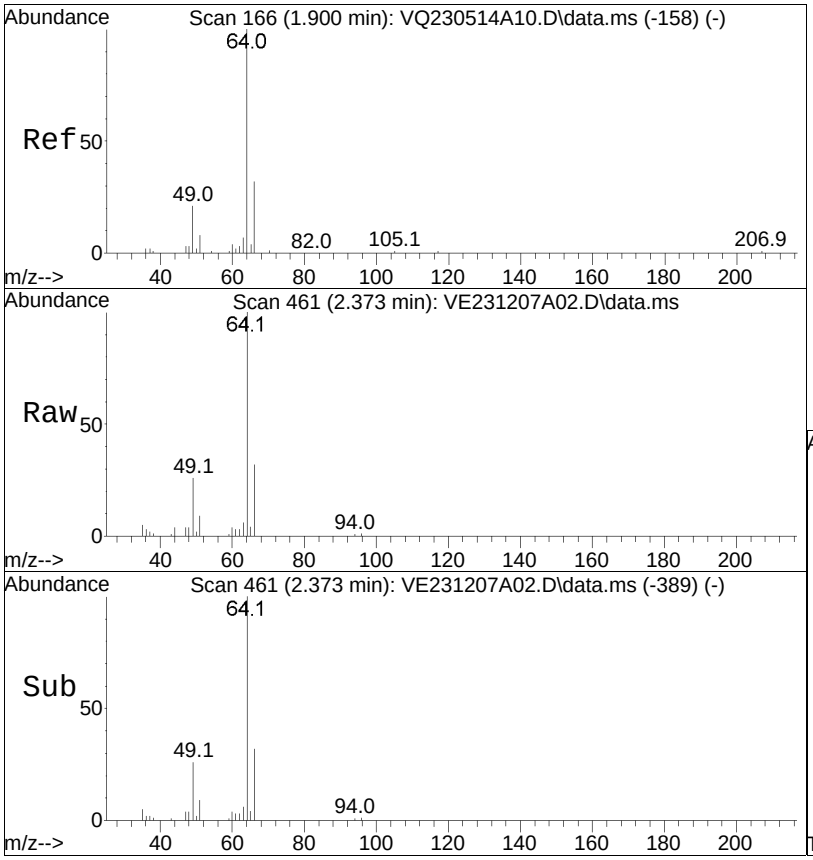


#5
Bromomethane
Concen: 10.76 ug/L
RT: 2.250 min Scan# 417
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 94 Resp: 24289

Ion	Ratio	Lower	Upper
94	100		
96	92.3	73.9	113.9

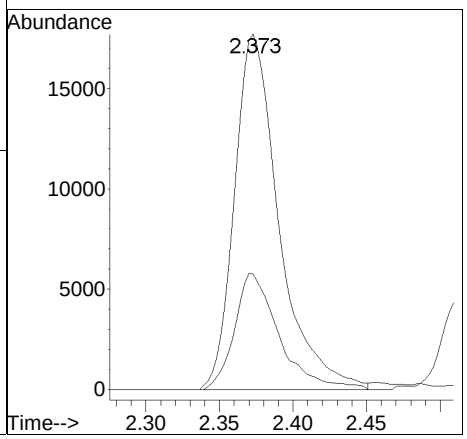


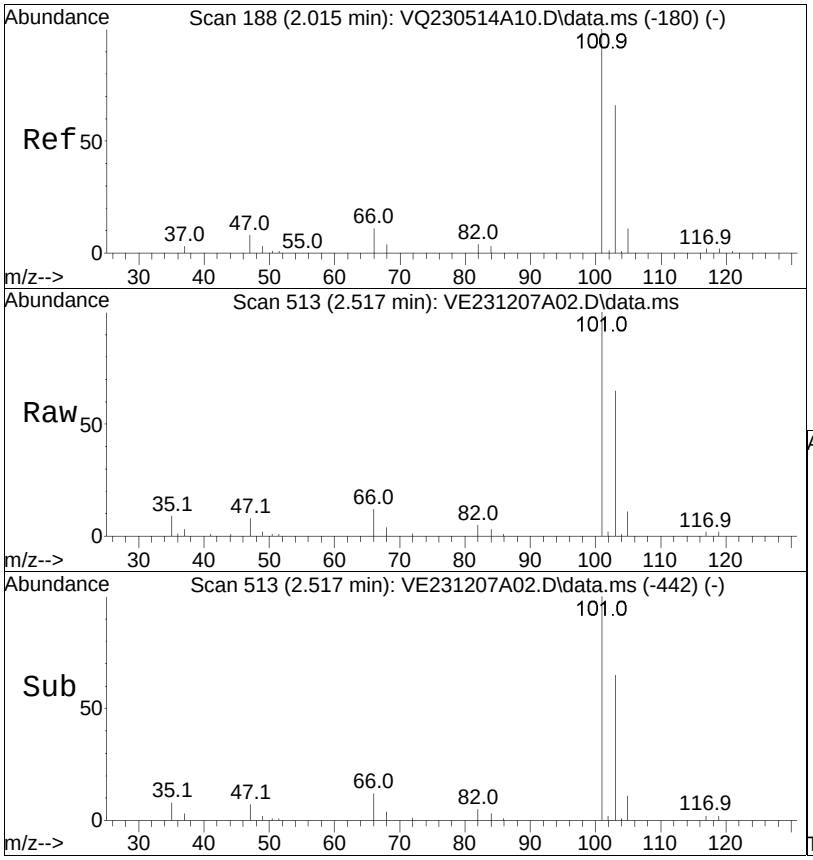


#6
Chloroethane
Concen: 10.06 ug/L
RT: 2.373 min Scan# 461
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 64 Resp: 37268

Ion	Ratio	Lower	Upper
64	100		
66	32.5	9.7	49.7

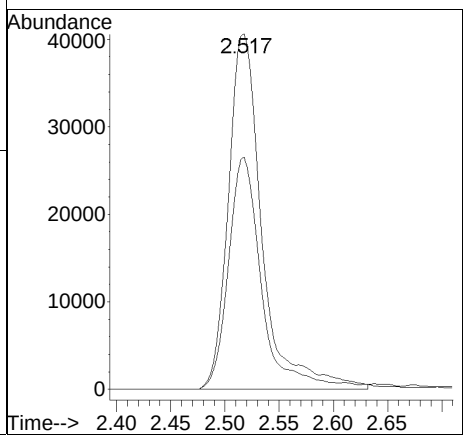


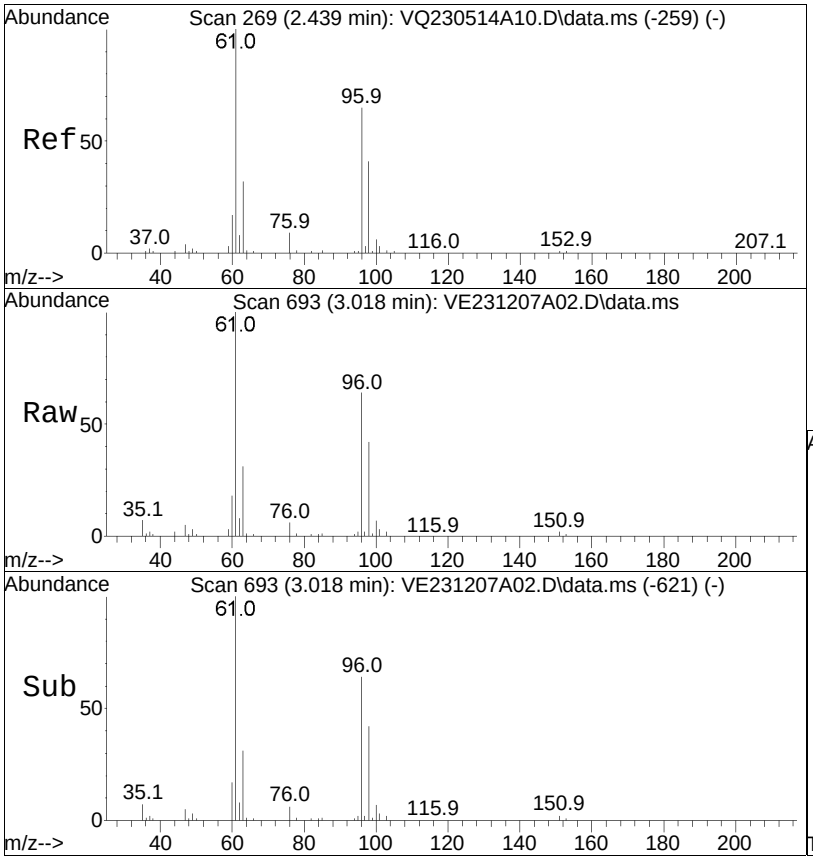


#7
Trichlorofluoromethane
Concen: 12.02 ug/L
RT: 2.517 min Scan# 513
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:101 Resp: 88264

Ion	Ratio	Lower	Upper
101	100		
103	63.5	52.2	78.2

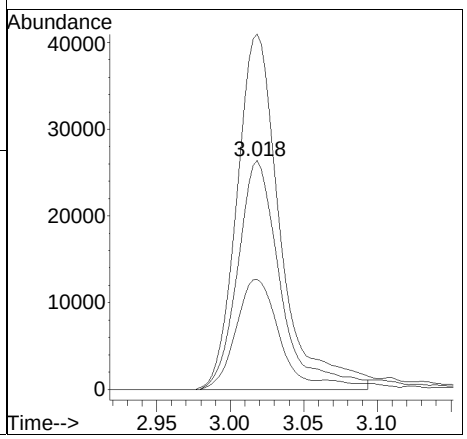


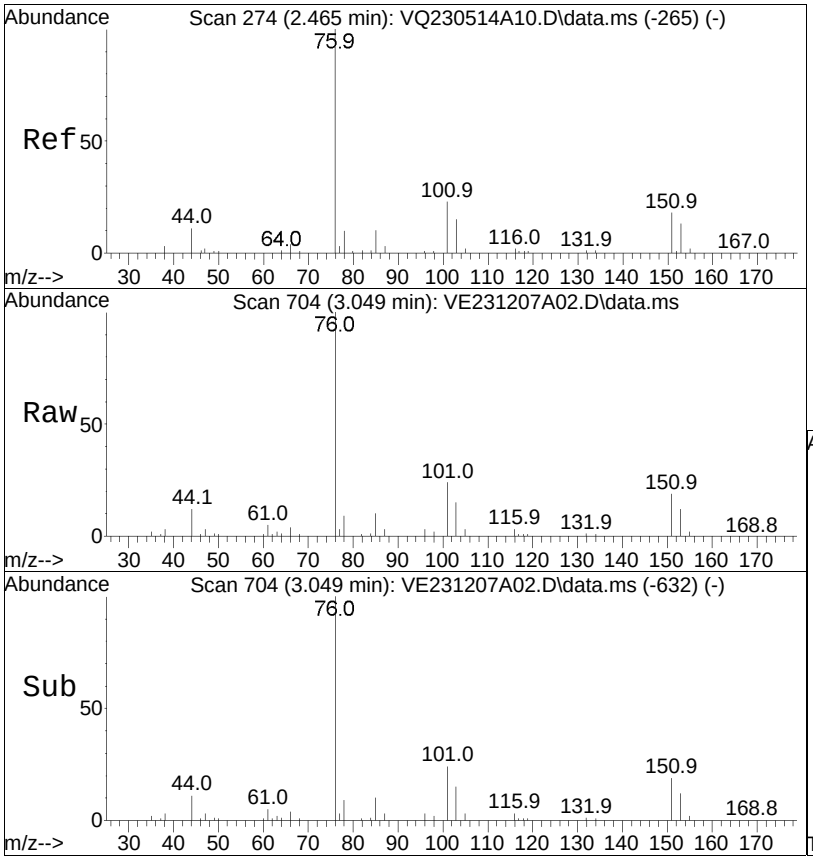


#10
1,1-Dichloroethene
Concen: 11.43 ug/L
RT: 3.018 min Scan# 693
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 96 Resp: 53585

Ion	Ratio	Lower	Upper
96	100		
61	158.3	149.7	224.5
63	47.1	46.8	70.2

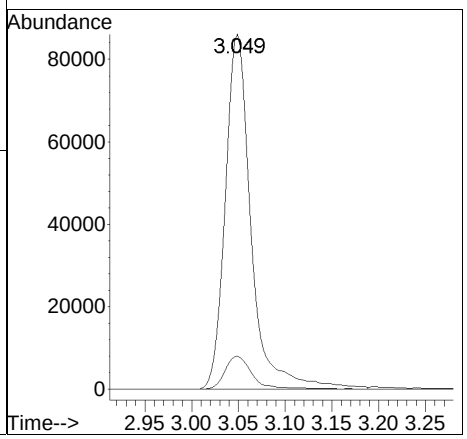


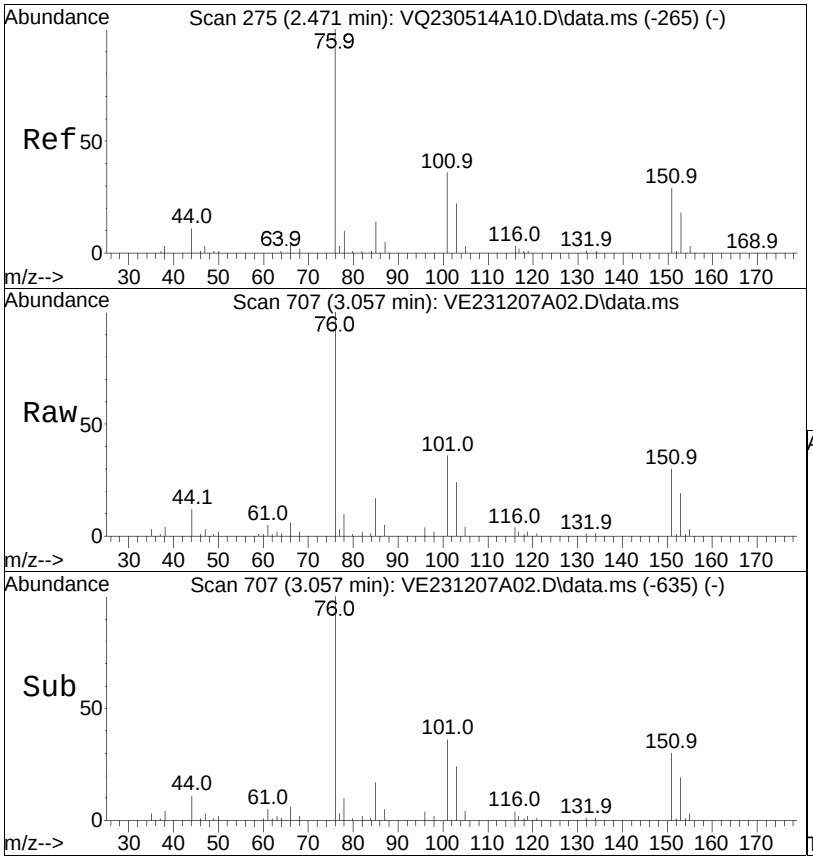


#11
Carbon disulfide
Concen: 11.22 ug/L
RT: 3.049 min Scan# 704
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 76 Resp: 166769

Ion	Ratio	Lower	Upper
76	100		
78	9.7	6.8	14.0

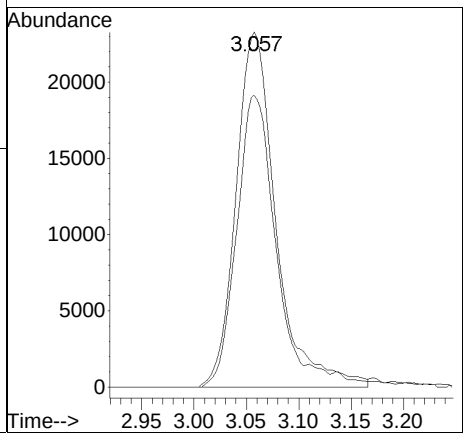


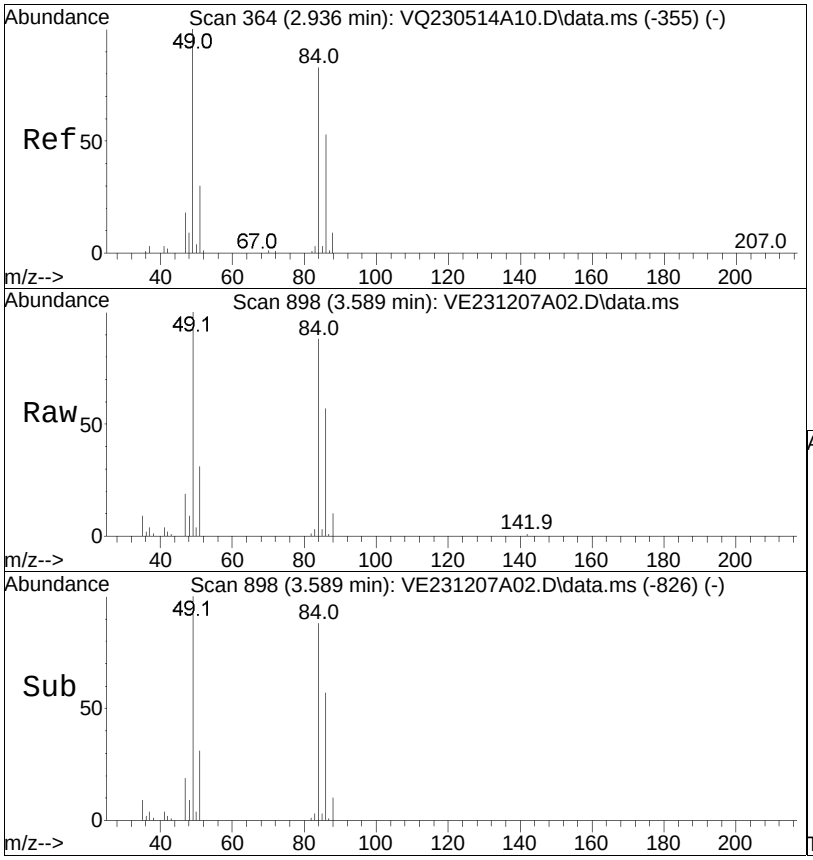


#12
Freon-113
Concen: 11.90 ug/L
RT: 3.057 min Scan# 707
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:101 Resp: 62067

Ion	Ratio	Lower	Upper
101	100		
151	79.7	63.6	95.4

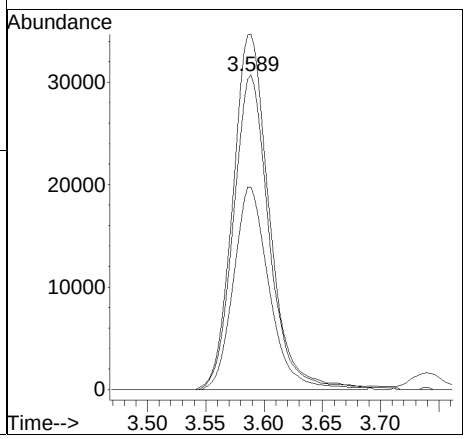


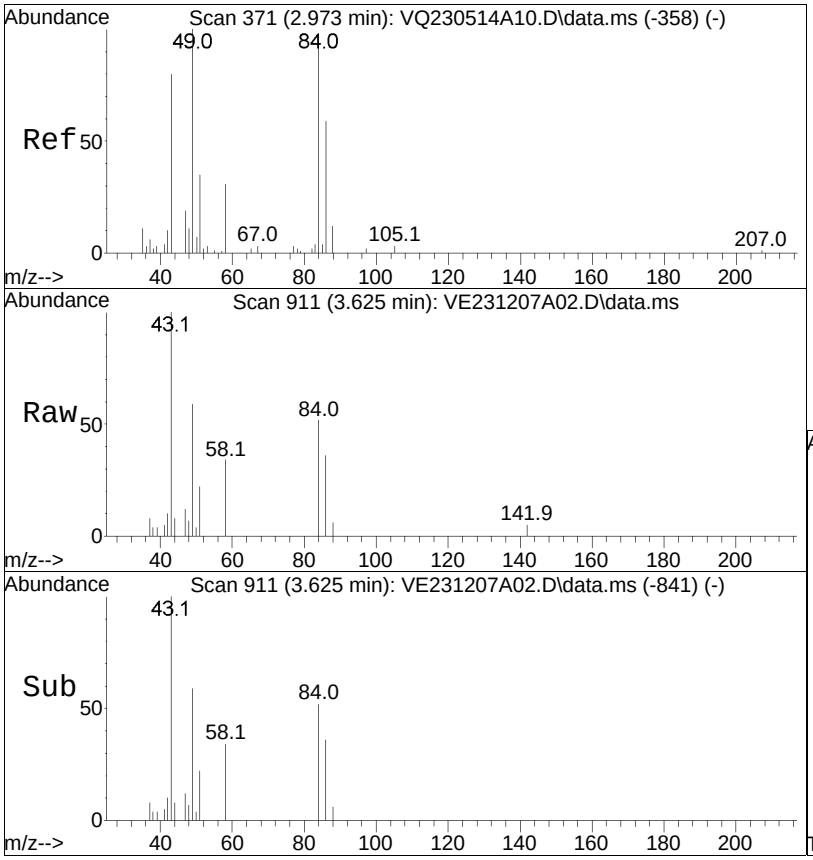


#15
Methylene chloride
Concen: 11.20 ug/L
RT: 3.589 min Scan# 898
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 84 Resp: 65572

Ion	Ratio	Lower	Upper
84	100		
86	64.1	41.0	85.2
49	114.0	88.1	183.1

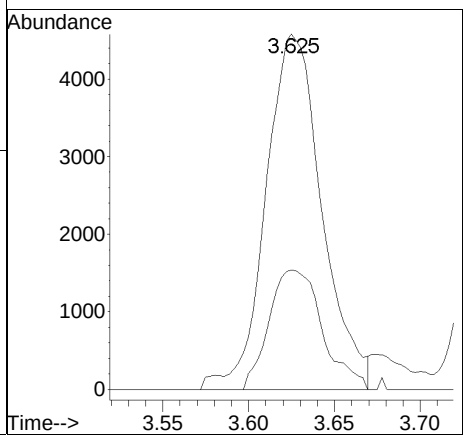


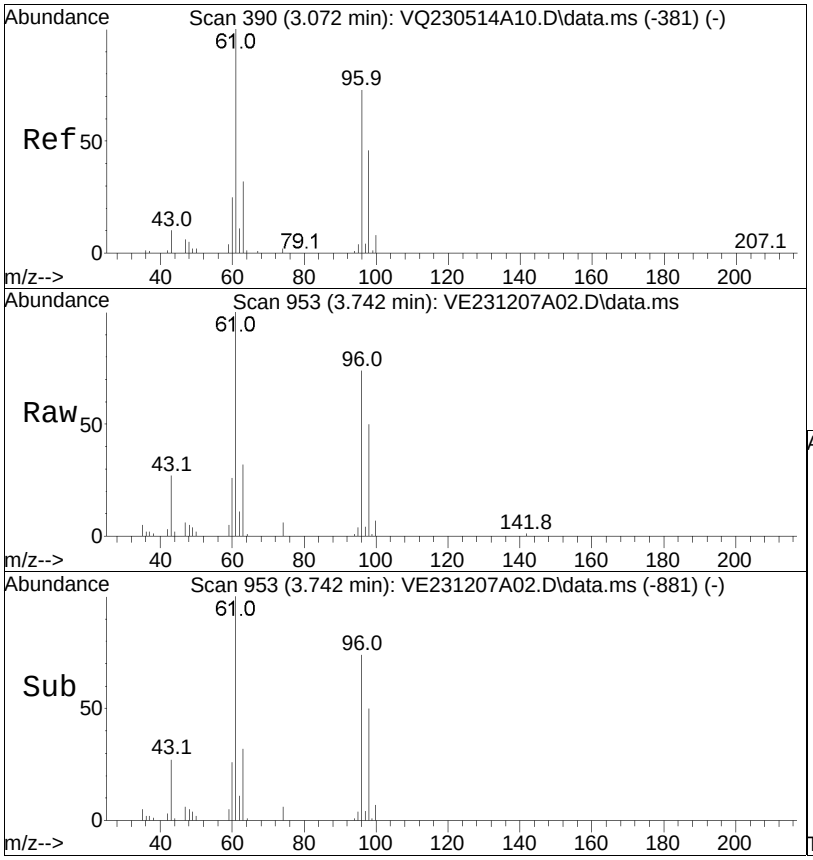


#17
Acetone
Concen: 7.44 ug/L
RT: 3.625 min Scan# 911
Delta R.T. -0.005 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 43 Resp: 10405

Ion	Ratio	Lower	Upper
43	100		
58	32.0	20.2	30.4#

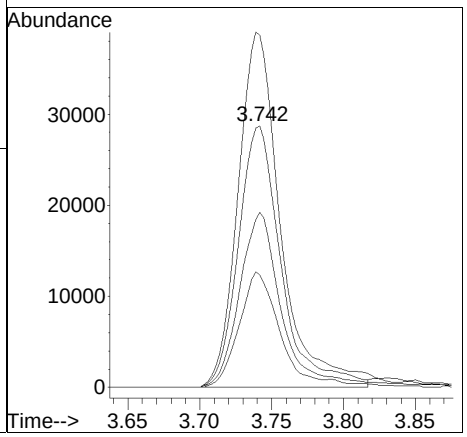


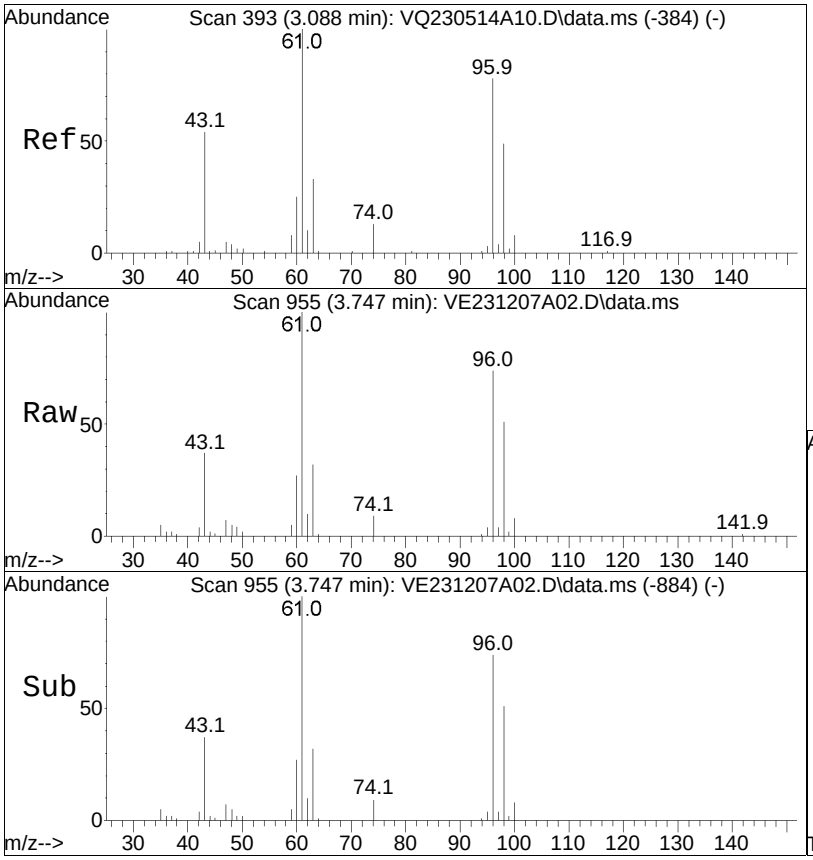


#18
trans-1,2-Dichloroethene
Concen: 11.44 ug/L
RT: 3.742 min Scan# 953
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 96 Resp: 59794

Ion	Ratio	Lower	Upper
96	100		
61	136.1	102.8	213.4
98	66.2	41.8	86.8
63	40.8	32.2	66.8

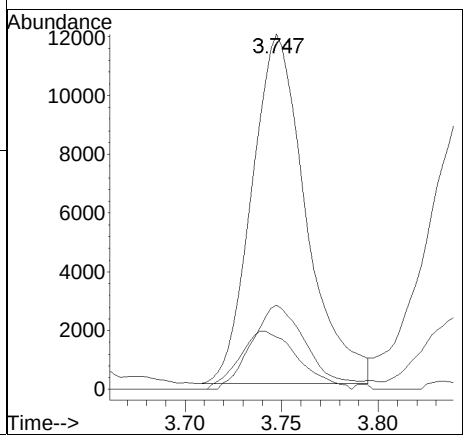


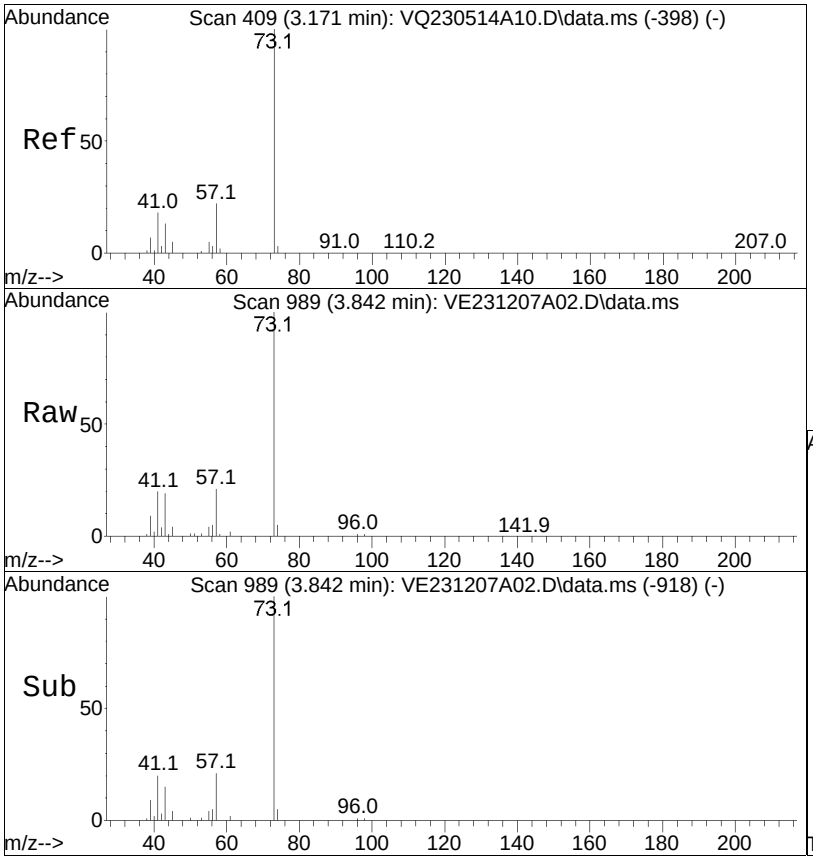


#19
Methyl acetate
Concen: 7.04 ug/L
RT: 3.747 min Scan# 955
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 43 Resp: 23225

Ion	Ratio	Lower	Upper
43	100		
74	24.6	16.6	24.8
59	18.1	13.9	20.9

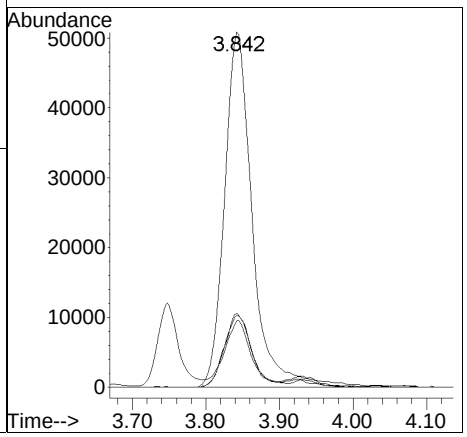


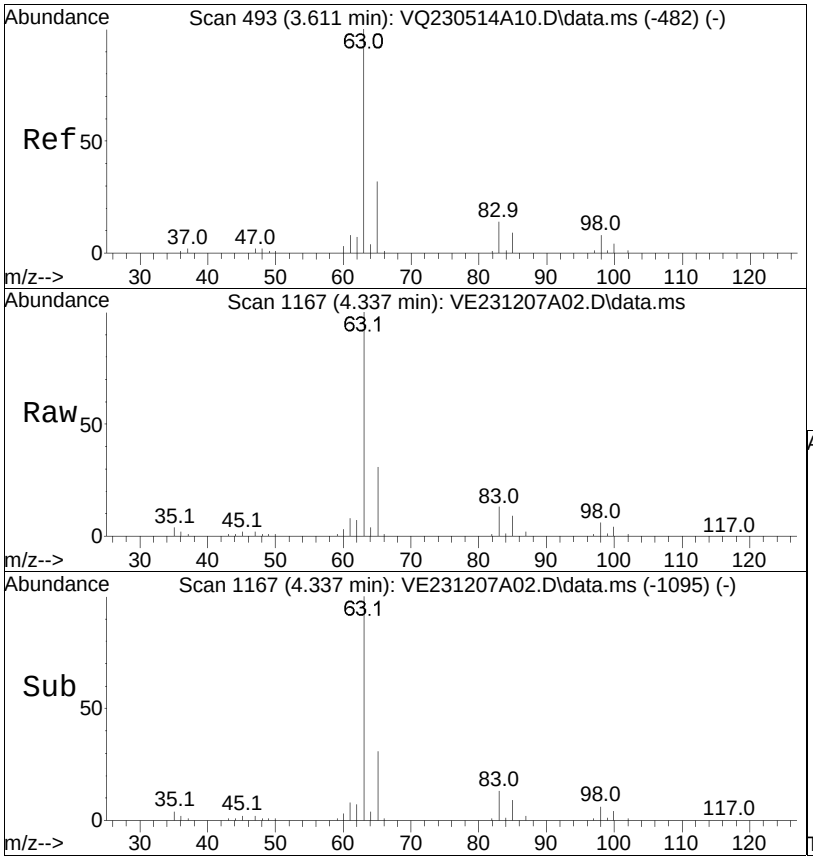


#21
Methyl tert-butyl ether
Concen: 10.61 ug/L
RT: 3.842 min Scan# 989
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 73 Resp: 134707

Ion	Ratio	Lower	Upper
73	100		
57	20.3	14.0	29.0
43	17.2	13.6	28.2
41	19.7	15.0	31.2

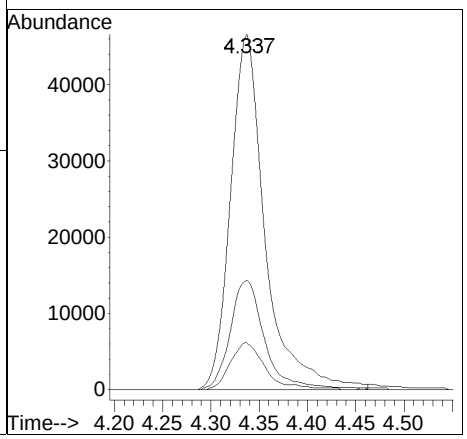


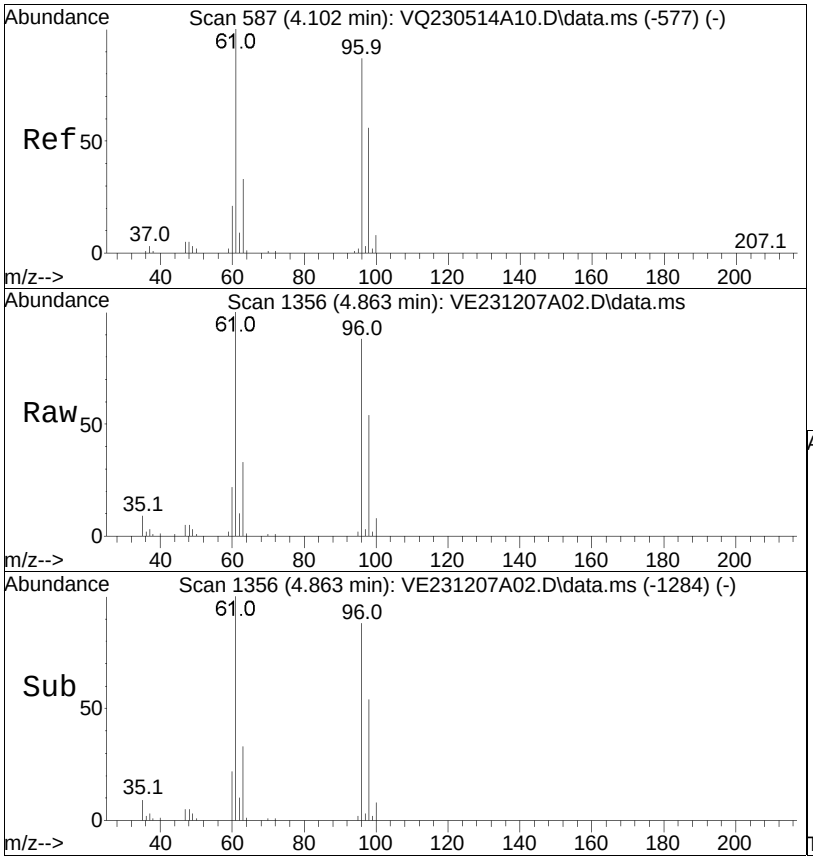


#25
1,1-Dichloroethane
Concen: 10.31 ug/L
RT: 4.337 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 63 Resp: 116329

Ion	Ratio	Lower	Upper
63	100		
65	30.4	11.5	51.5
83	12.4	0.0	32.7

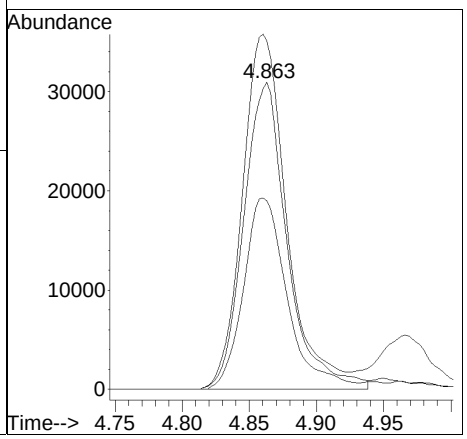


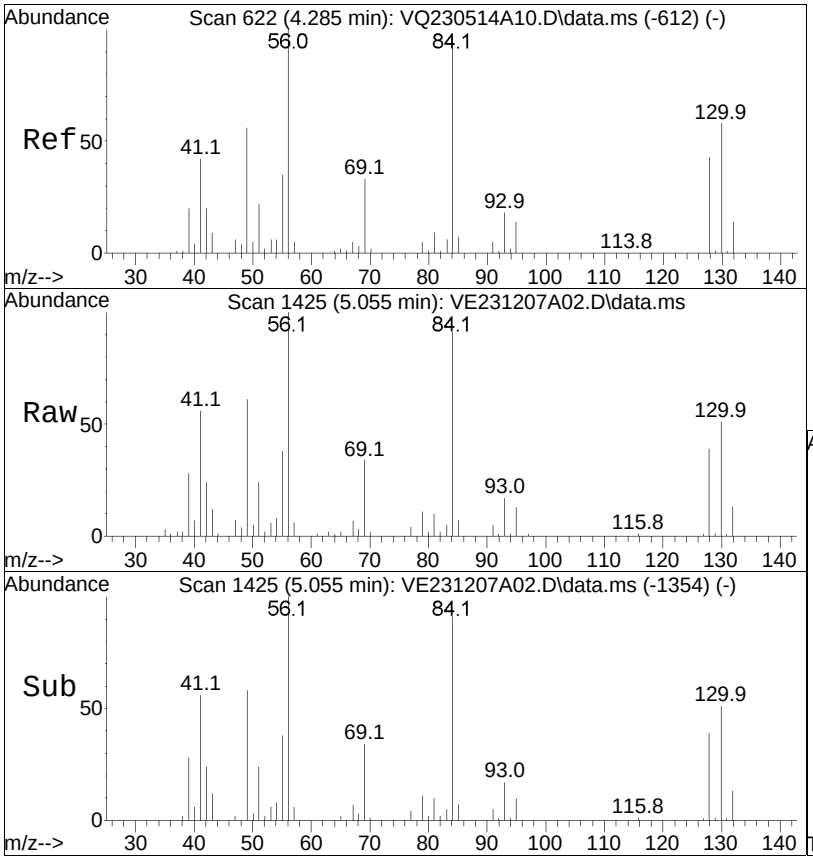


#30
cis-1,2-Dichloroethene
Concen: 11.66 ug/L
RT: 4.863 min Scan# 1356
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 96 Resp: 69922

Ion	Ratio	Lower	Upper
96	100		
61	117.2	115.3	172.9
98	62.8	51.8	77.8

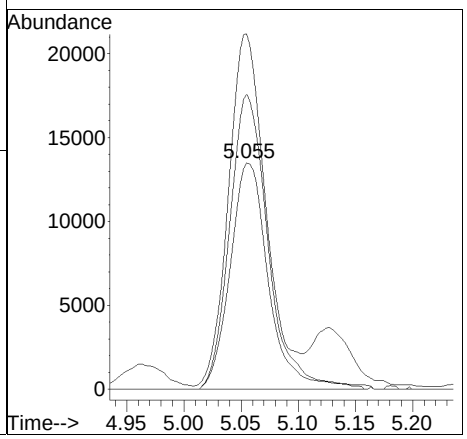


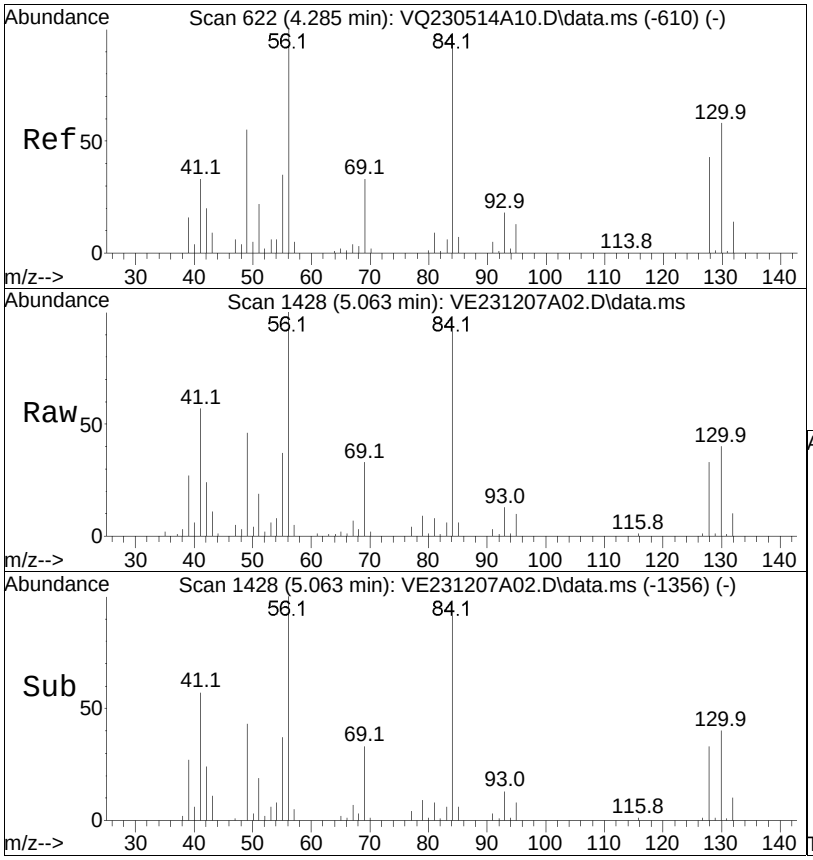


#33
Bromochloromethane
Concen: 12.16 ug/L
RT: 5.055 min Scan# 1425
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:128 Resp: 31704

Ion	Ratio	Lower	Upper
128	100		
49	151.5	143.3	214.9
130	130.1	102.7	154.1

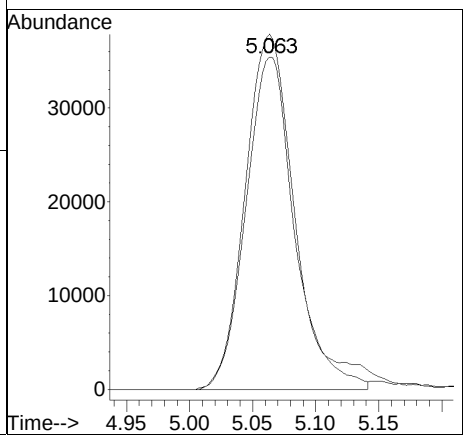


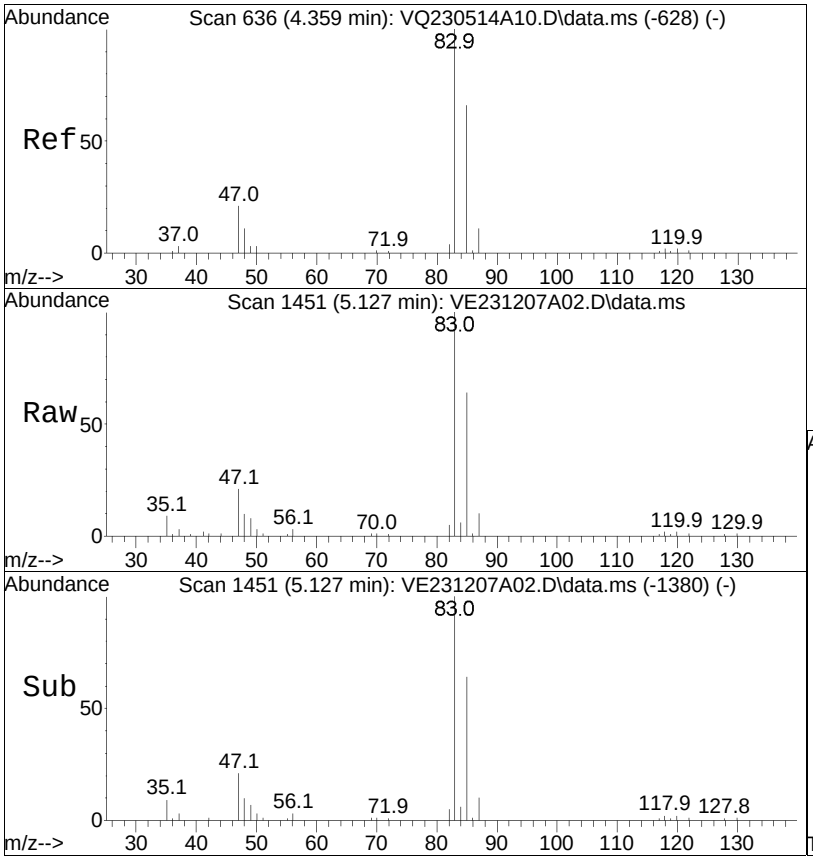


#34
Cyclohexane
Concen: 8.05 ug/L
RT: 5.063 min Scan# 1428
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 56 Resp: 102833

Ion	Ratio	Lower	Upper
56	100		
84	96.4	57.5	119.3

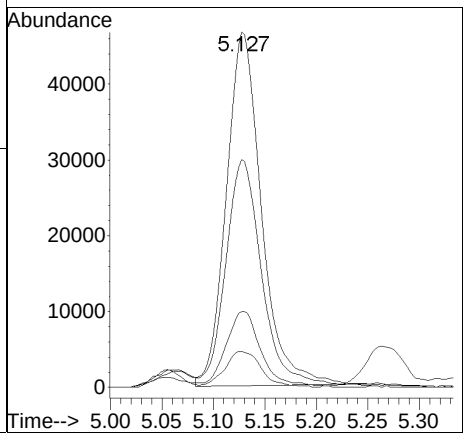


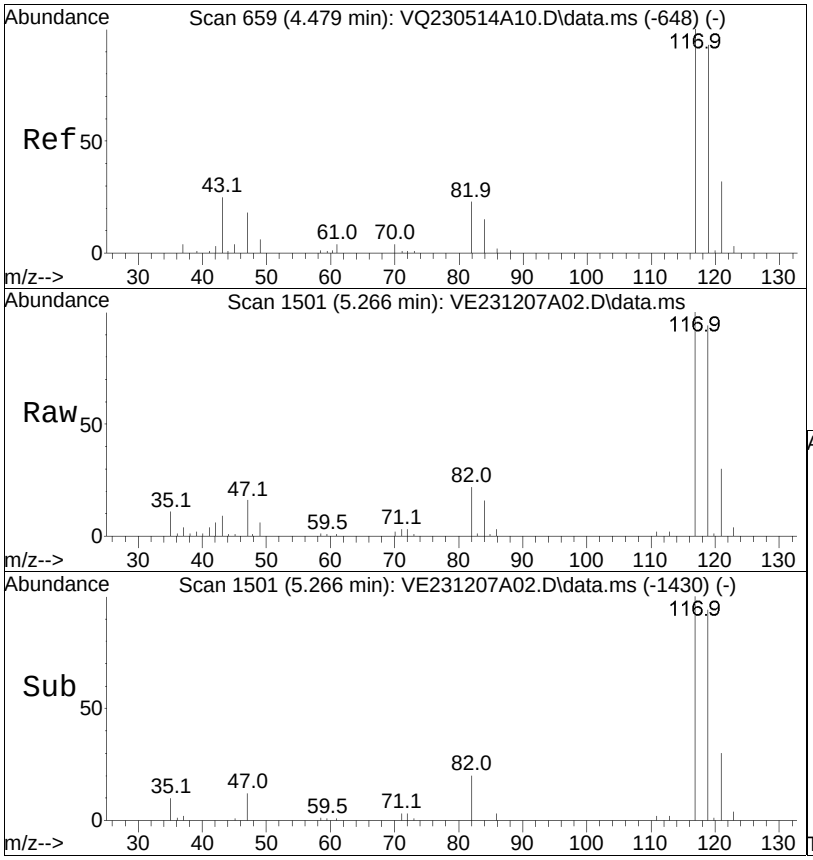


#35
Chloroform
Concen: 11.69 ug/L
RT: 5.127 min Scan# 1451
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 83 Resp: 111130

Ion	Ratio	Lower	Upper
83	100		
85	64.6	43.0	89.2
47	20.3	17.5	36.3
48	10.8	8.8	18.2

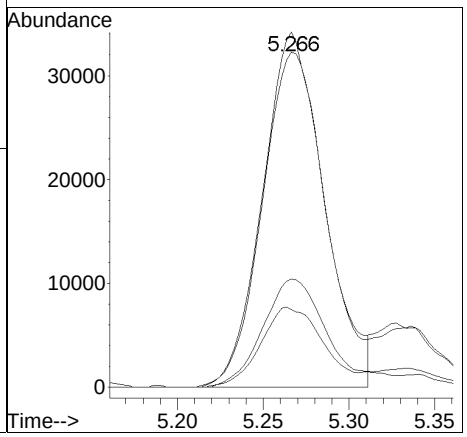


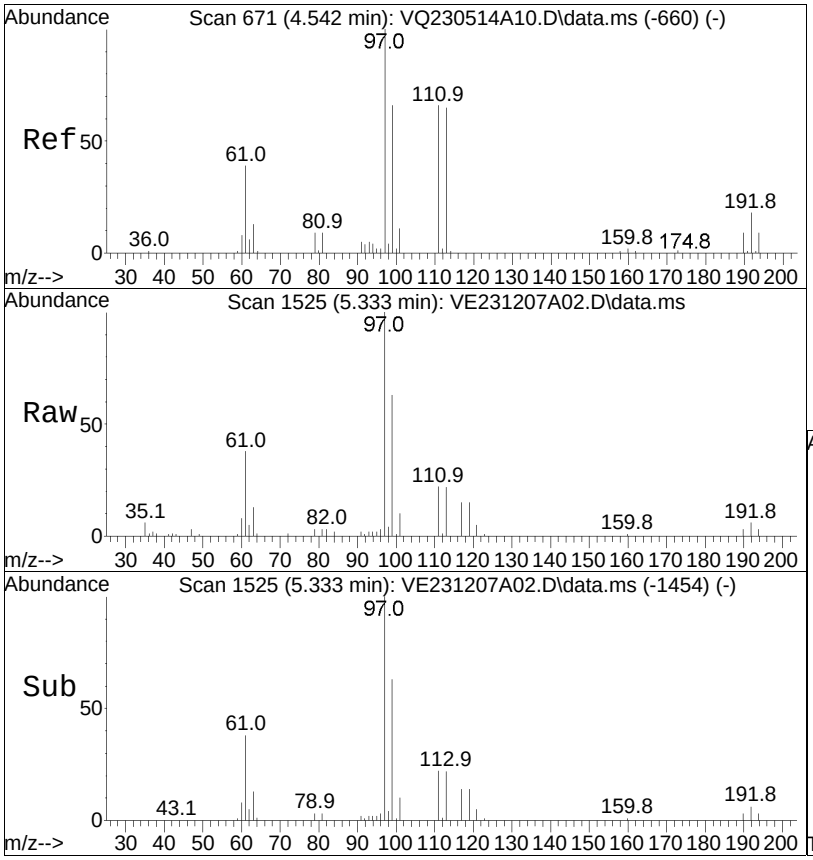


#37
Carbon tetrachloride
Concen: 12.00 ug/L
RT: 5.266 min Scan# 1501
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:117 Resp: 85433

Ion	Ratio	Lower	Upper
117	100		
119	97.0	63.2	131.2
121	31.4	20.3	42.3
82	23.0	18.1	37.7

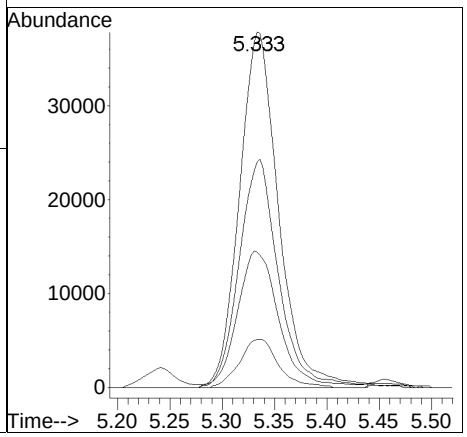


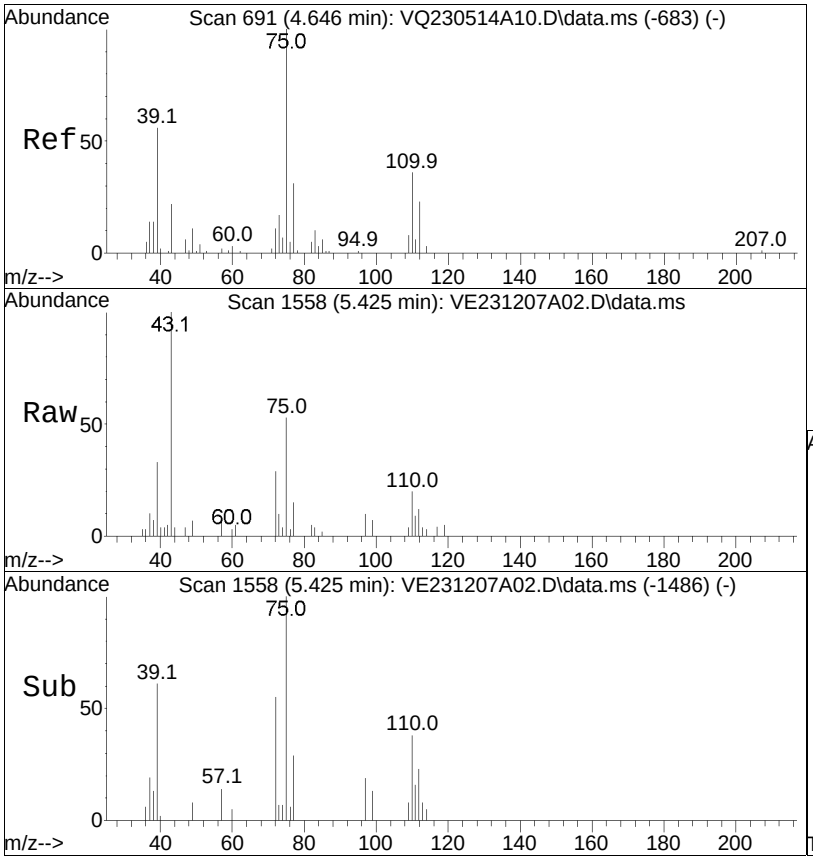


#40
1,1,1-Trichloroethane
Concen: 11.56 ug/L
RT: 5.333 min Scan# 1525
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 97 Resp: 98599

Ion	Ratio	Lower	Upper
97	100		
99	64.8	42.5	88.3
61	40.8	30.4	63.2
63	13.4	9.6	19.8

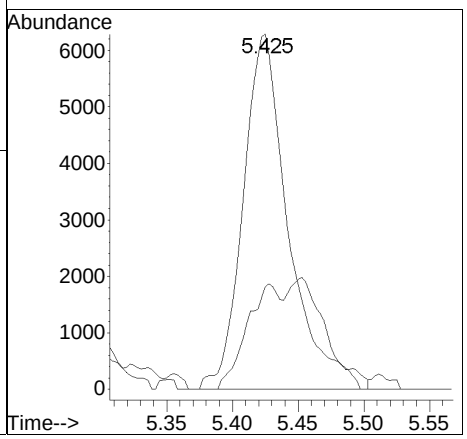


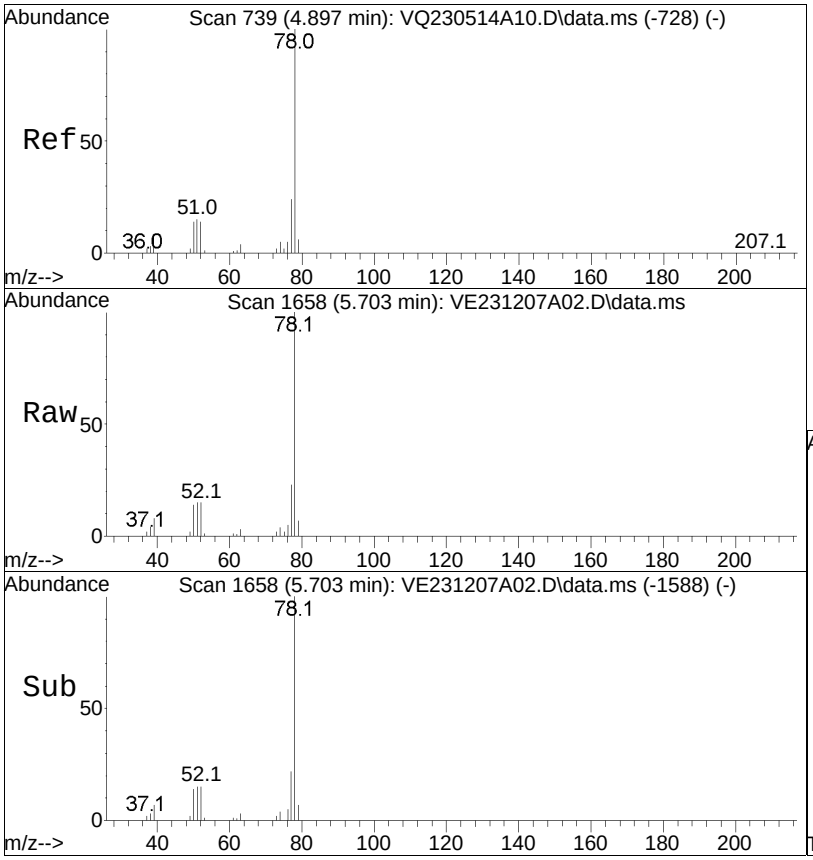


#42
2-Butanone
Concen: 7.59 ug/L
RT: 5.425 min Scan# 1558
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 43 Resp: 15145

Ion	Ratio	Lower	Upper
43	100		
72	22.7	31.2	46.8#

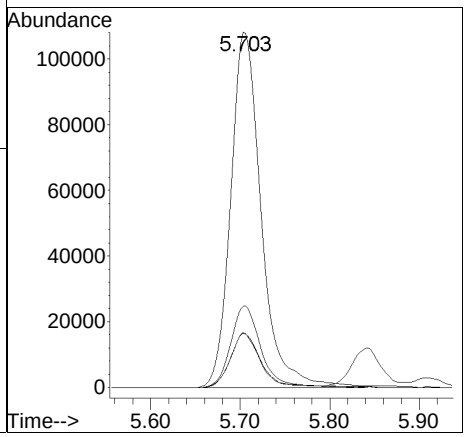


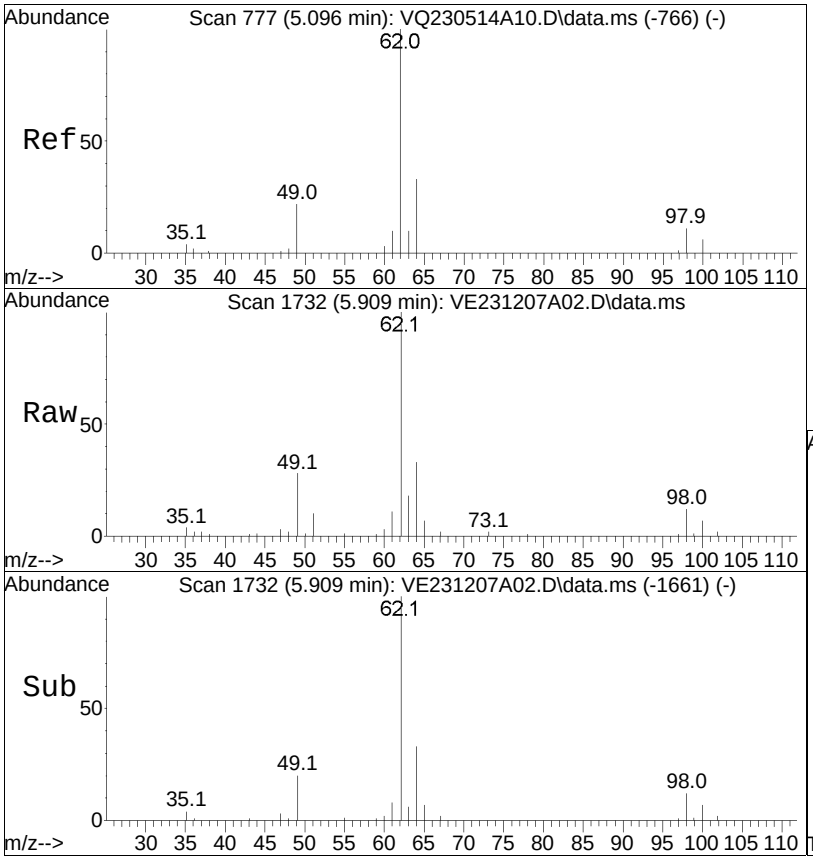


#45
Benzene
Concen: 11.57 ug/L
RT: 5.703 min Scan# 1658
Delta R.T. -0.005 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 78 Resp: 256408

Ion	Ratio	Lower	Upper
78	100		
77	22.5	15.9	33.1
51	15.0	12.3	25.5
52	15.0	11.3	23.5

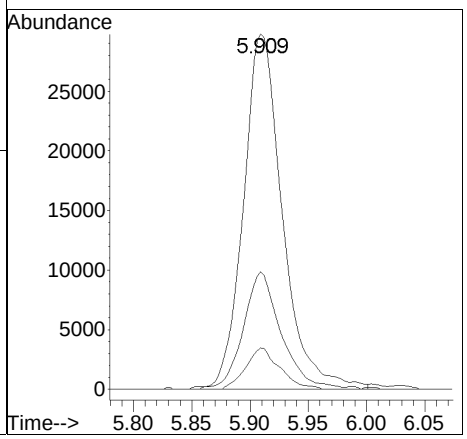


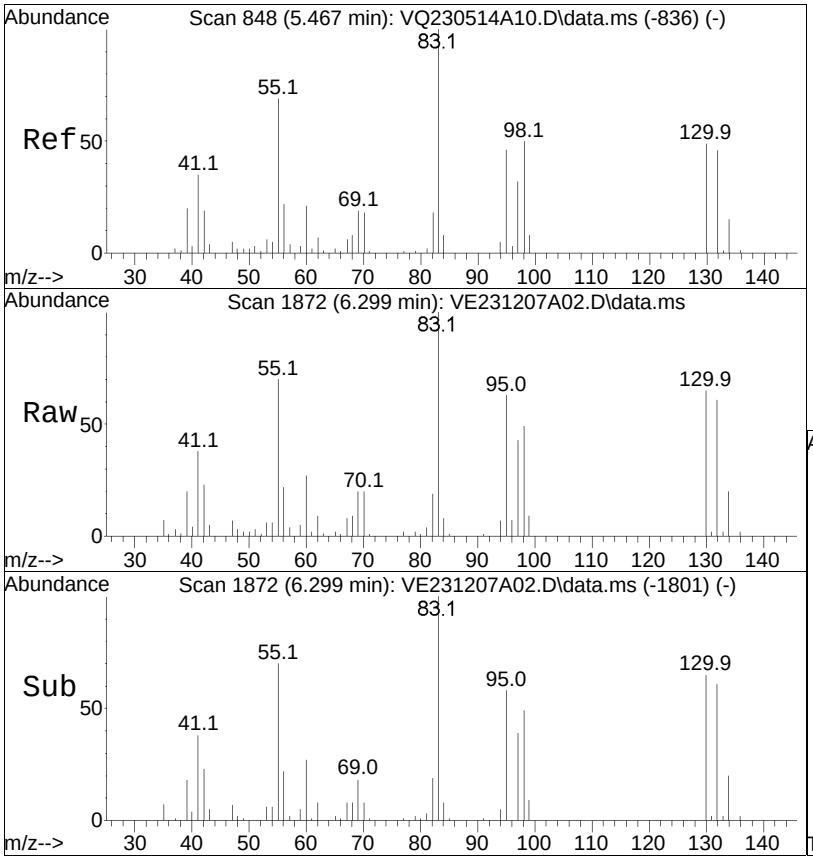


#48
1,2-Dichloroethane
Concen: 9.48 ug/L
RT: 5.909 min Scan# 1732
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 62 Resp: 69619

Ion	Ratio	Lower	Upper
62	100		
64	32.2	12.6	52.6
98	10.2	0.0	28.2

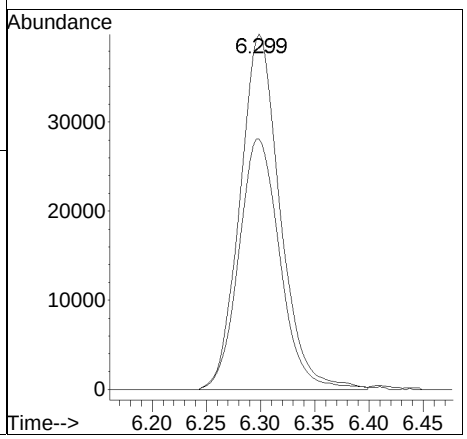


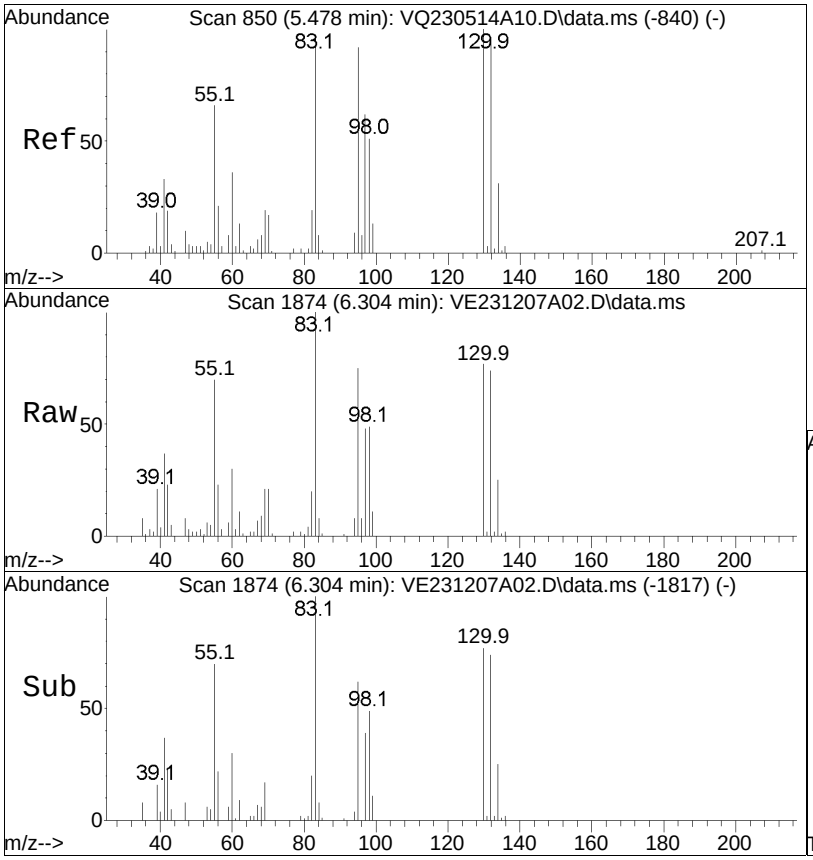


#51
Methyl cyclohexane
Concen: 10.57 ug/L
RT: 6.299 min Scan# 1872
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 83 Resp: 102923

Ion	Ratio	Lower	Upper
83	100		
55	72.2	65.0	97.6

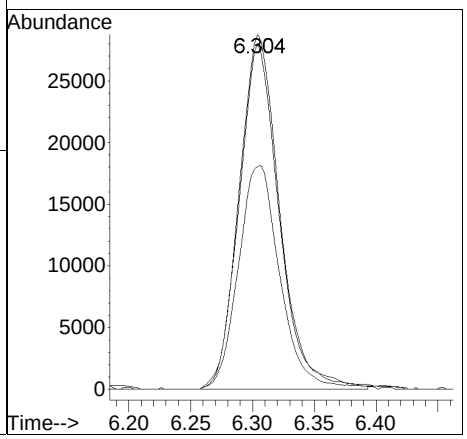


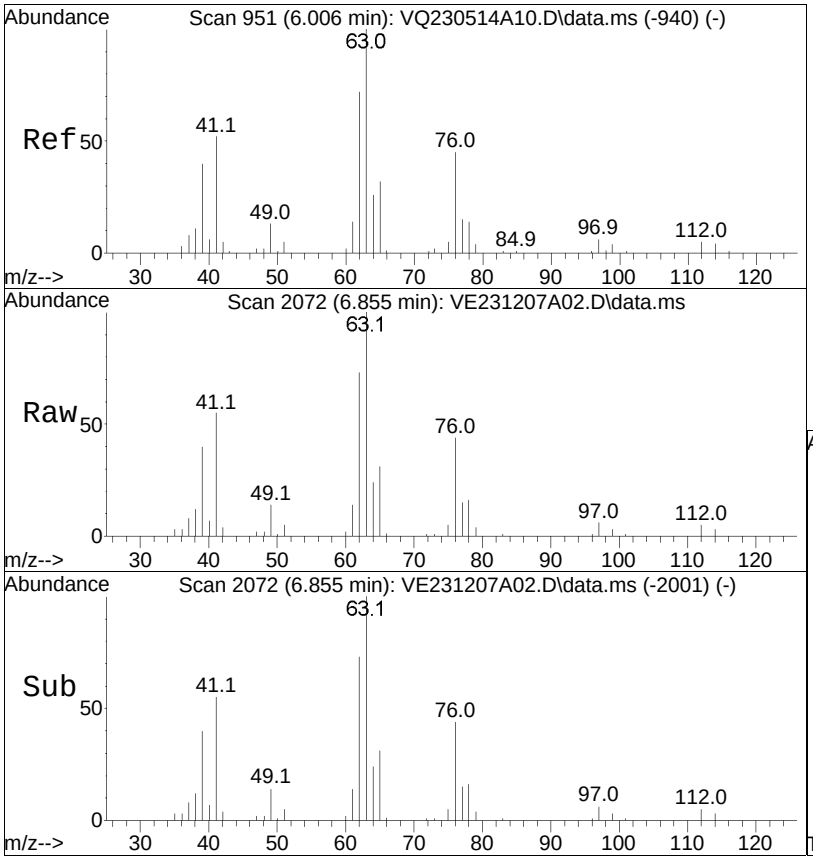


#52
Trichloroethene
Concen: 11.21 ug/L
RT: 6.304 min Scan# 1874
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 95 Resp: 63214

Ion	Ratio	Lower	Upper
95	100		
97	67.6	54.2	81.4
130	104.9	81.8	122.6

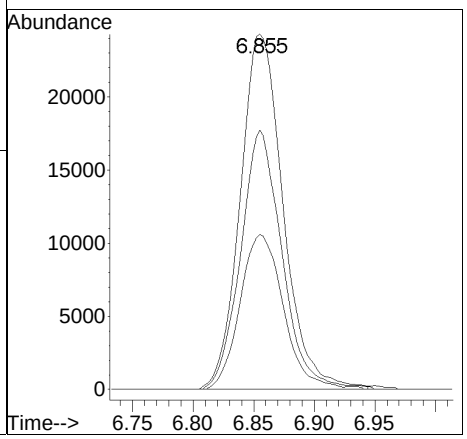


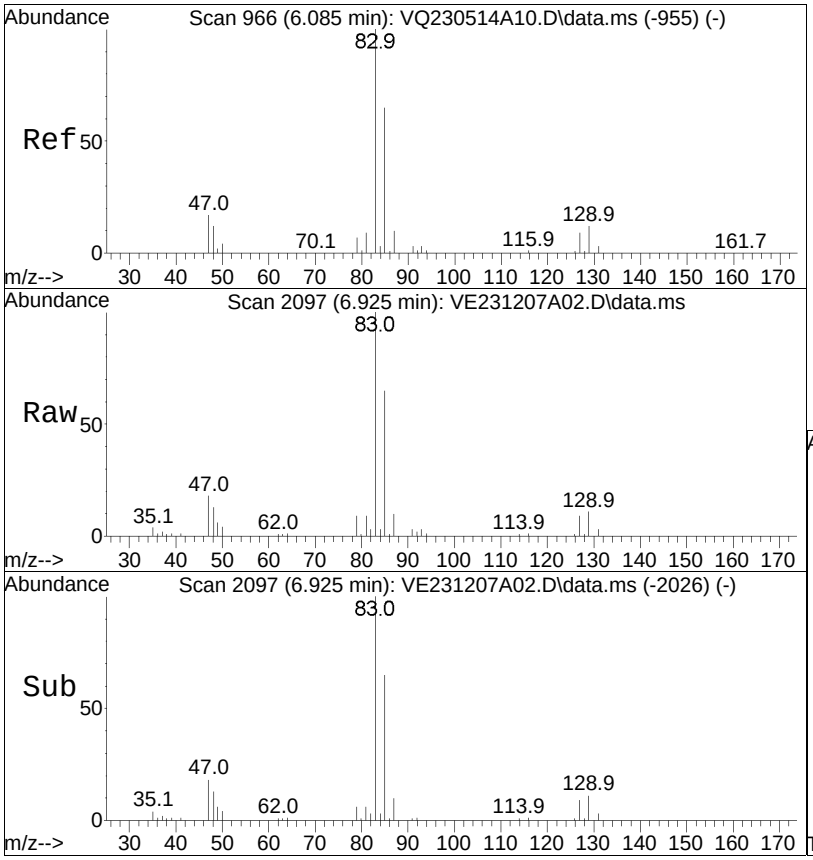


#55
1,2-Dichloropropane
Concen: 9.37 ug/L
RT: 6.855 min Scan# 2072
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 63 Resp: 60067

Ion	Ratio	Lower	Upper
63	100		
62	69.8	57.6	86.4
76	44.0	38.5	57.7

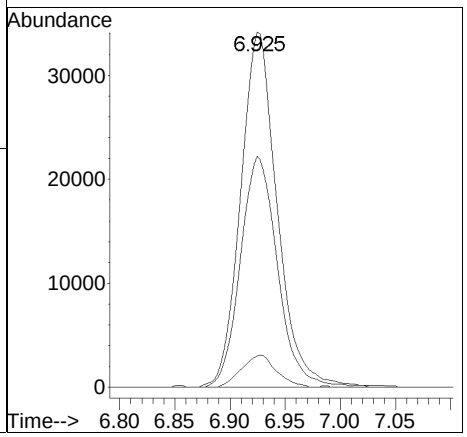


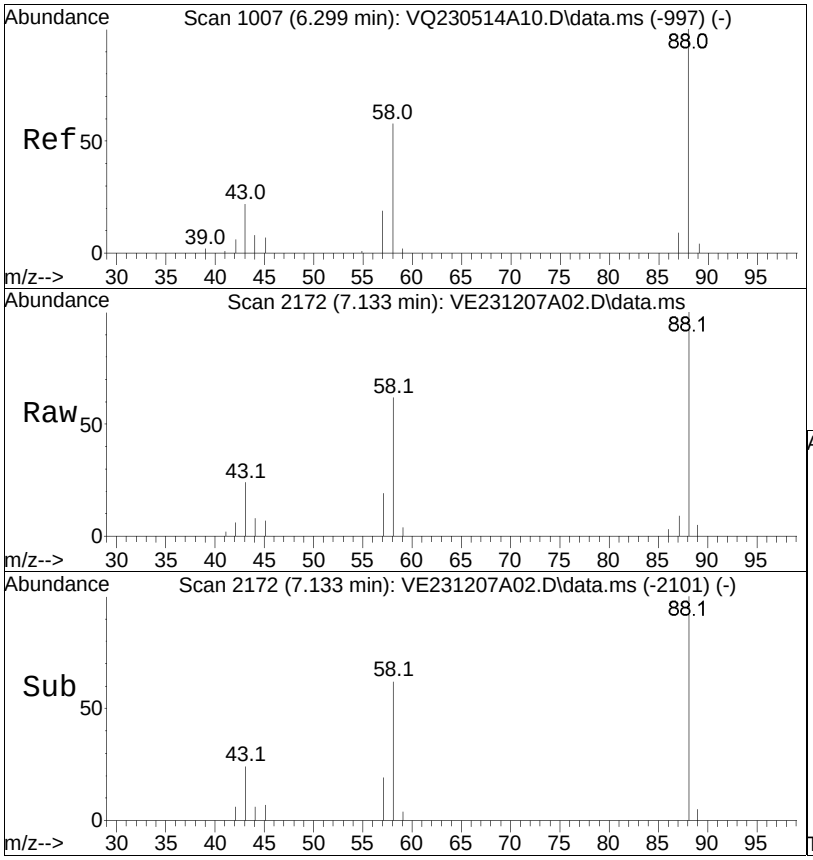


#58
Bromodichloromethane
Concen: 11.07 ug/L
RT: 6.925 min Scan# 2097
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 83 Resp: 78954

Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.4	77.2
127	8.7	6.9	10.3

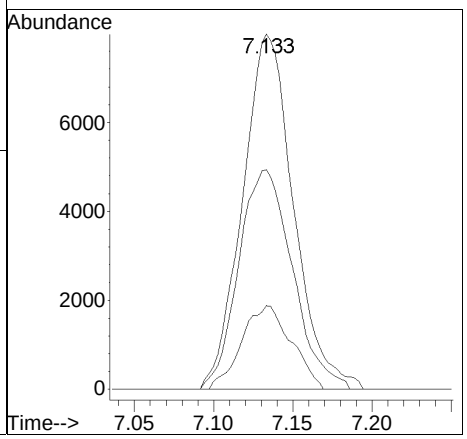


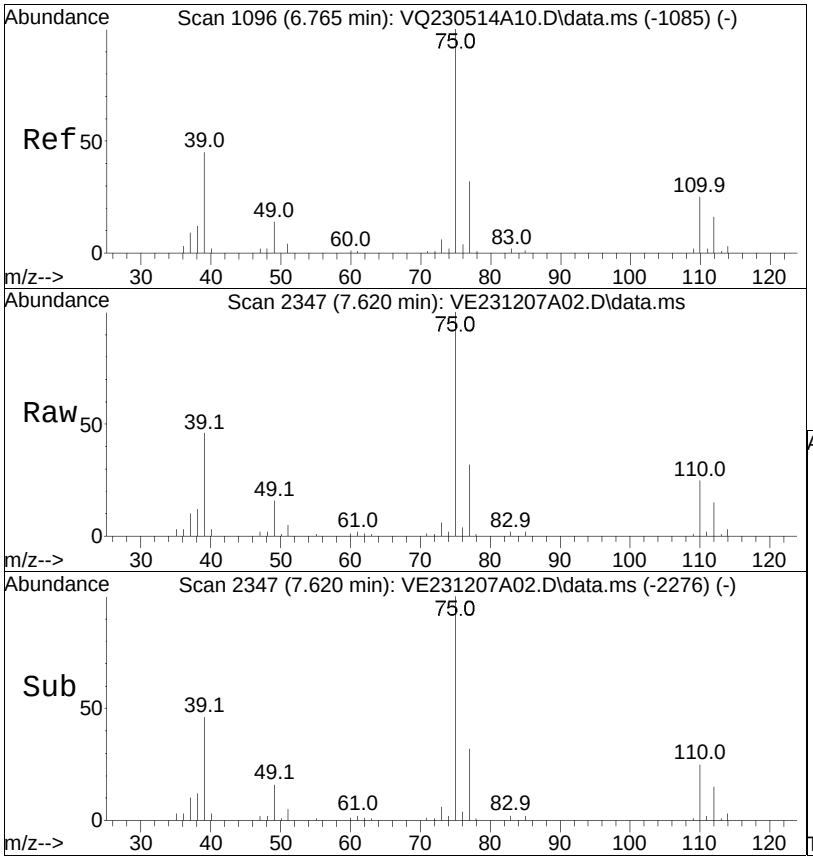


#61
1,4-Dioxane
Concen: 542.48 ug/L
RT: 7.133 min Scan# 2172
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 88 Resp: 17960

Ion	Ratio	Lower	Upper
88	100		
58	65.1	59.1	88.7
43	22.9	30.0	45.0#

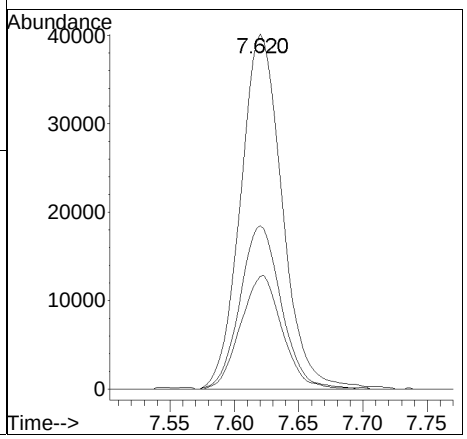


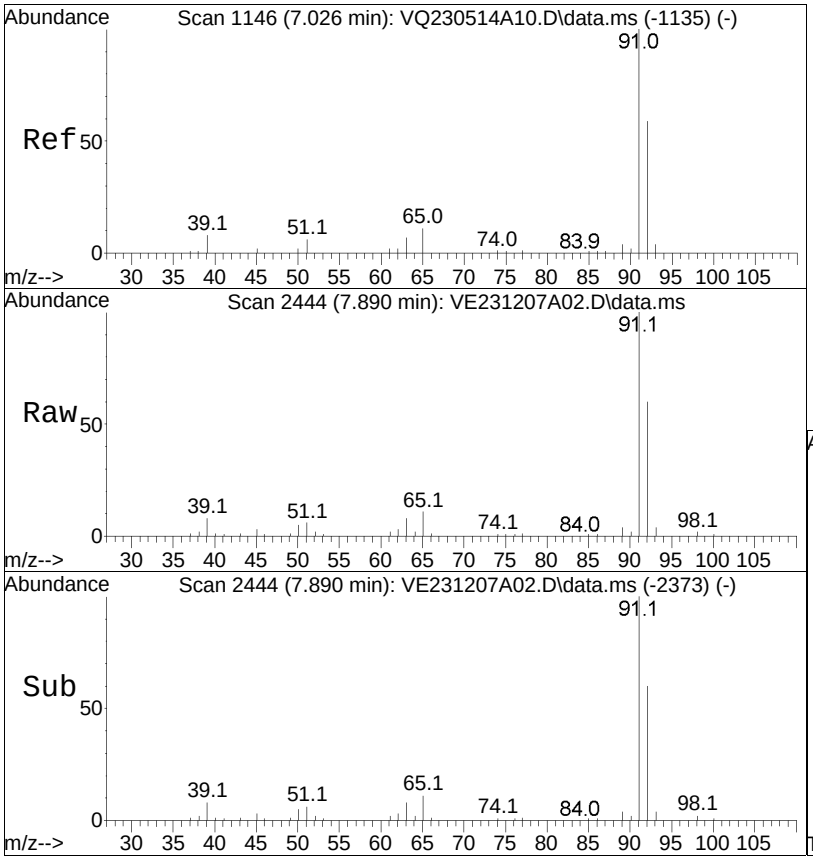


#62
cis-1,3-Dichloropropene
Concen: 10.71 ug/L
RT: 7.620 min Scan# 2347
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 75 Resp: 90654

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.0	37.6
39	45.7	50.6	75.8#

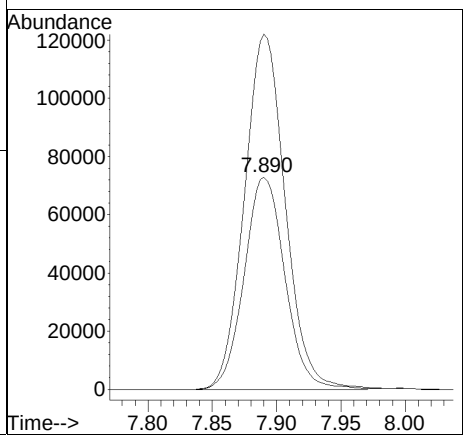


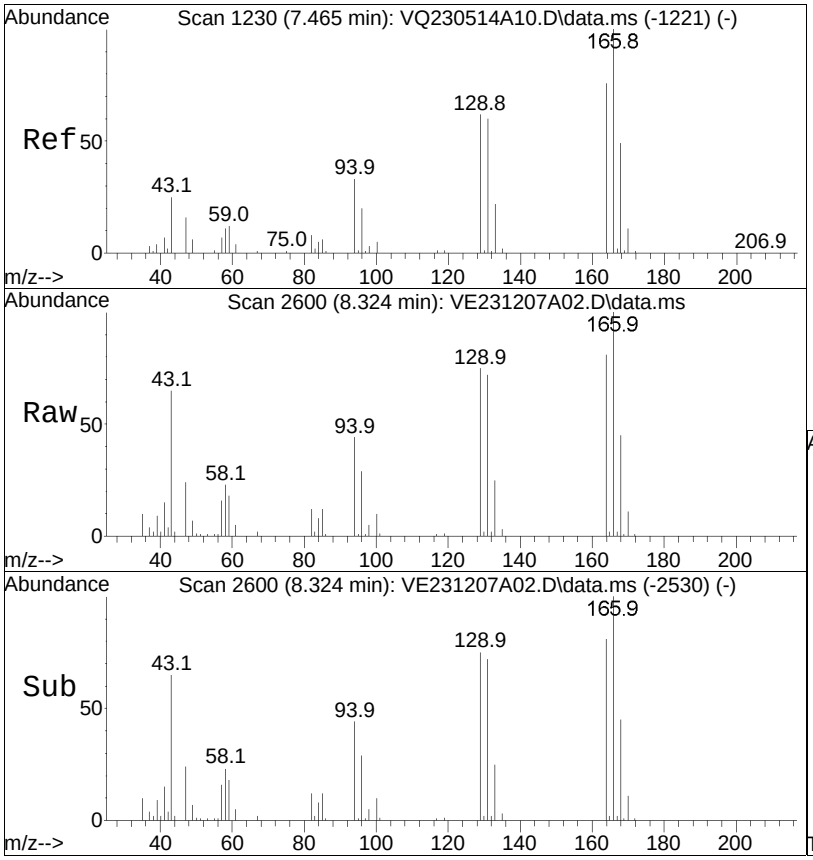


#65
Toluene
Concen: 11.15 ug/L
RT: 7.890 min Scan# 2444
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 92 Resp: 160832

Ion	Ratio	Lower	Upper
92	100		
91	167.9	135.9	203.9

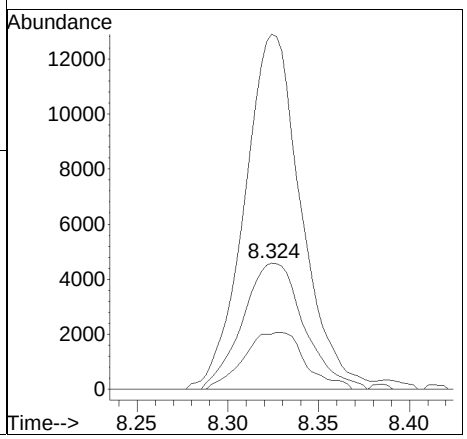


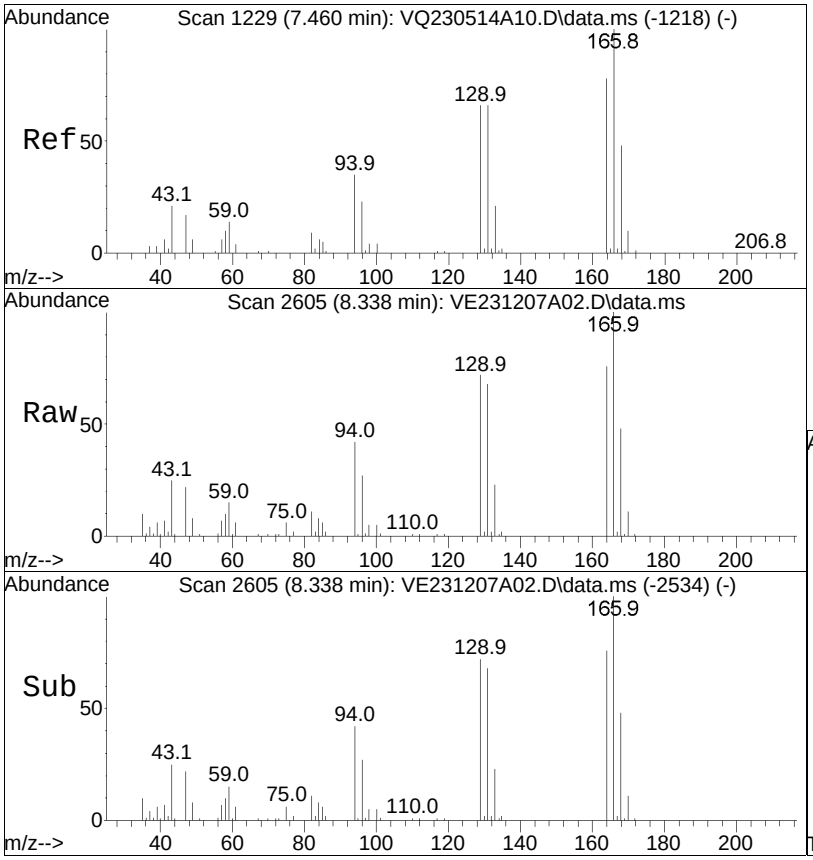


#66
4-Methyl-2-pentanone
Concen: 6.63 ug/L
RT: 8.324 min Scan# 2600
Delta R.T. -0.005 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 58 Resp: 10843

Ion	Ratio	Lower	Upper
58	100		
100	45.2	30.1	45.1#
43	258.8	226.7	340.1

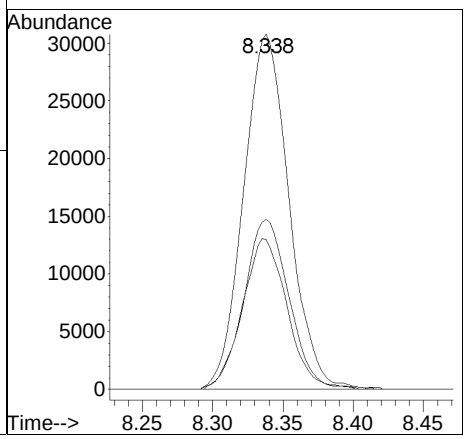


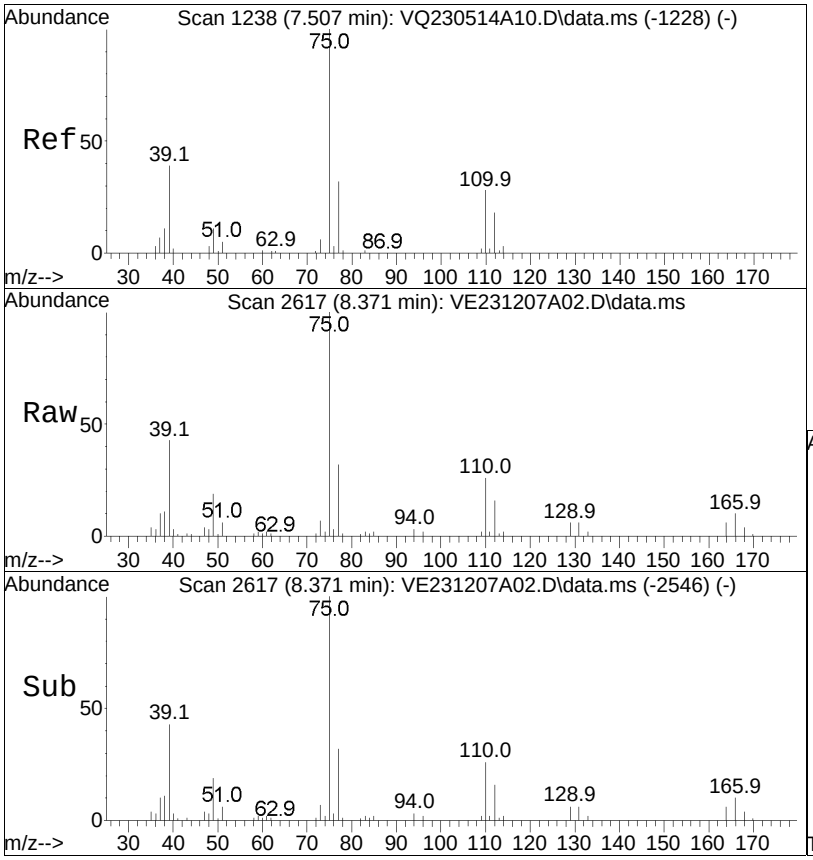


#67
Tetrachloroethene
Concen: 10.73 ug/L
RT: 8.338 min Scan# 2605
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:166 Resp: 69403

Ion	Ratio	Lower	Upper
166	100		
168	47.5	28.0	68.0
94	41.7	27.8	67.8

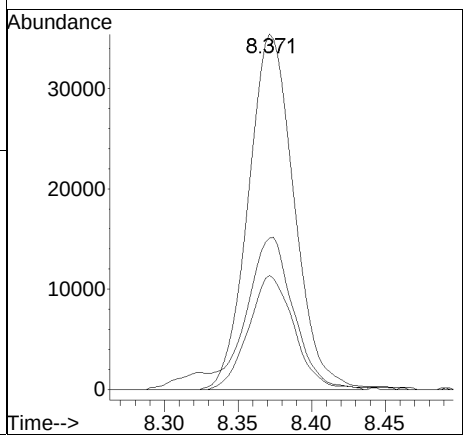


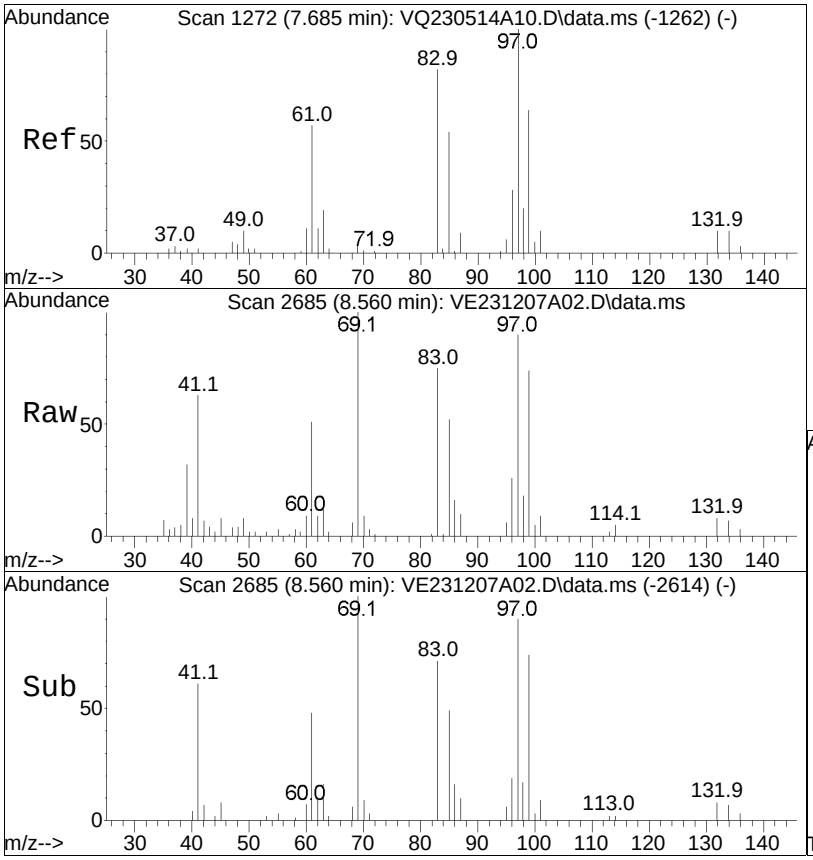


#69
trans-1,3-Dichloropropene
Concen: 10.48 ug/L
RT: 8.371 min Scan# 2617
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 75 Resp: 76509

Ion	Ratio	Lower	Upper
75	100		
77	31.9	11.4	51.4
39	42.3	44.3	84.3#

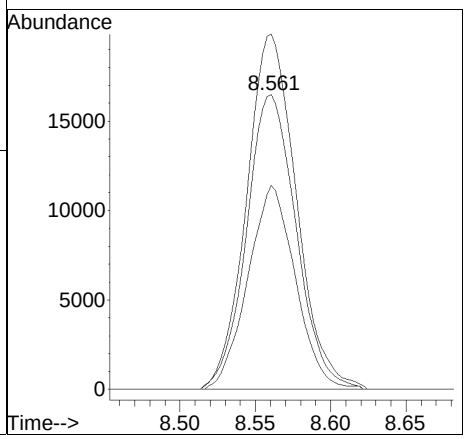


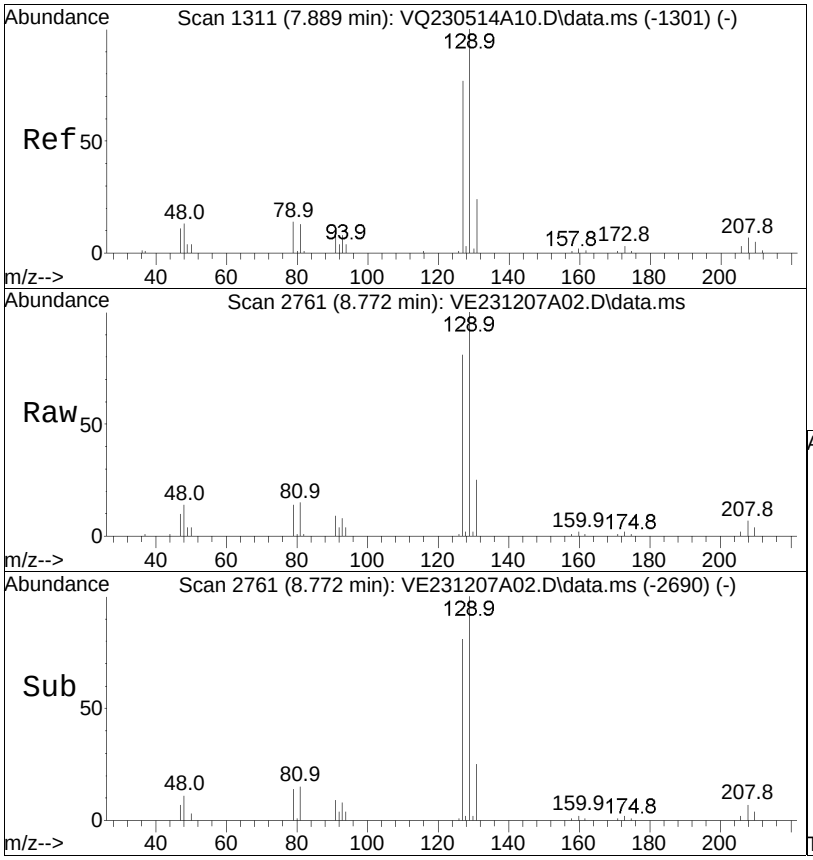


#72
1,1,2-Trichloroethane
Concen: 10.33 ug/L
RT: 8.560 min Scan# 2685
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 83 Resp: 37866

Ion	Ratio	Lower	Upper
83	100		
97	120.9	99.2	139.2
85	66.2	48.7	88.7

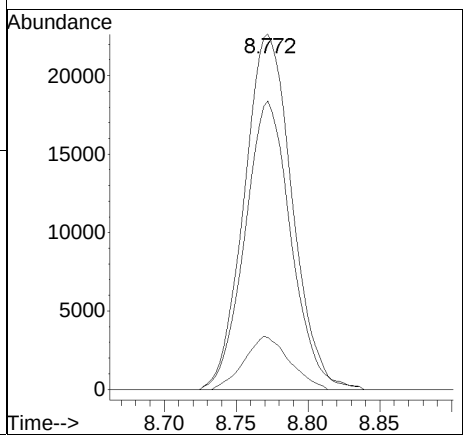


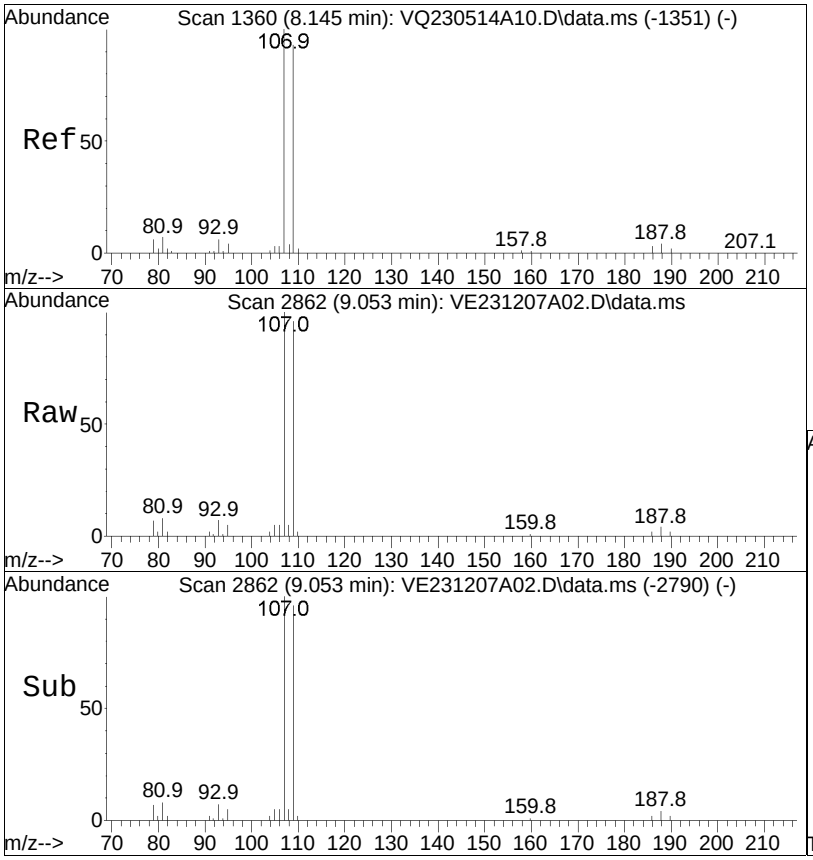


#73
Chlorodibromomethane
Concen: 10.14 ug/L
RT: 8.772 min Scan# 2761
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:129 Resp: 52455

Ion	Ratio	Lower	Upper
129	100		
81	14.1	0.0	36.2
127	78.3	58.0	98.0

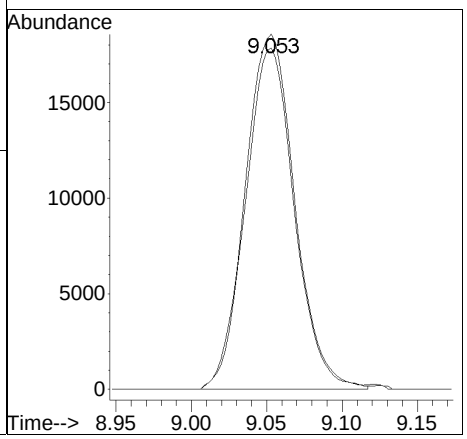


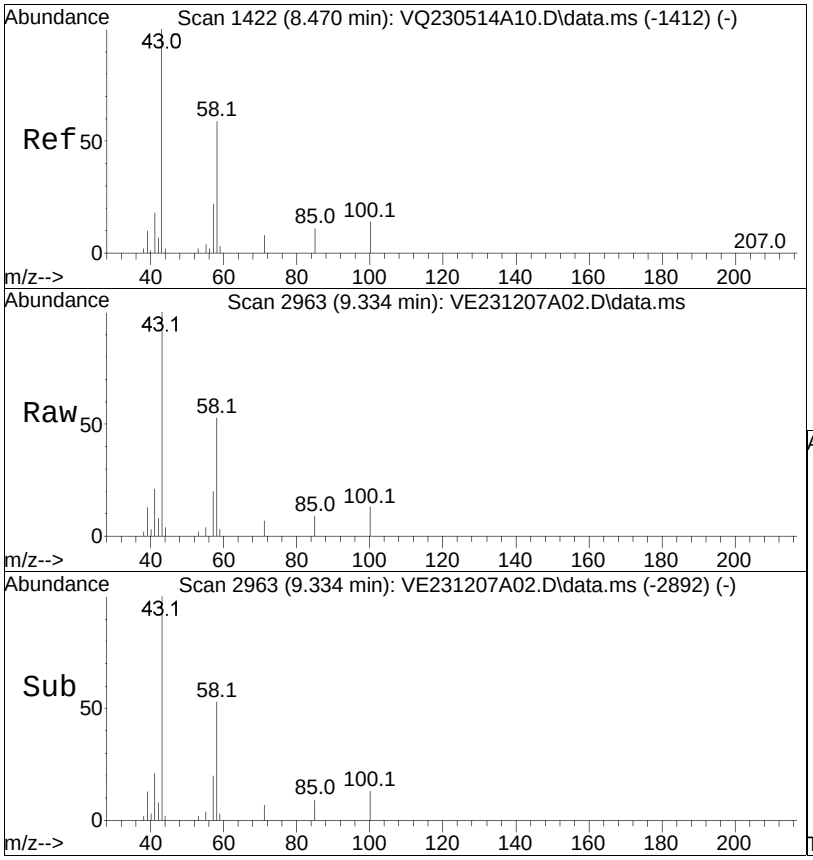


#75
1,2-Dibromoethane
Concen: 10.14 ug/L
RT: 9.053 min Scan# 2862
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:107 Resp: 42753

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.7	113.5

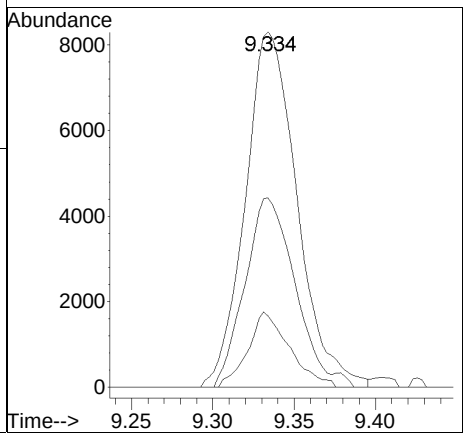


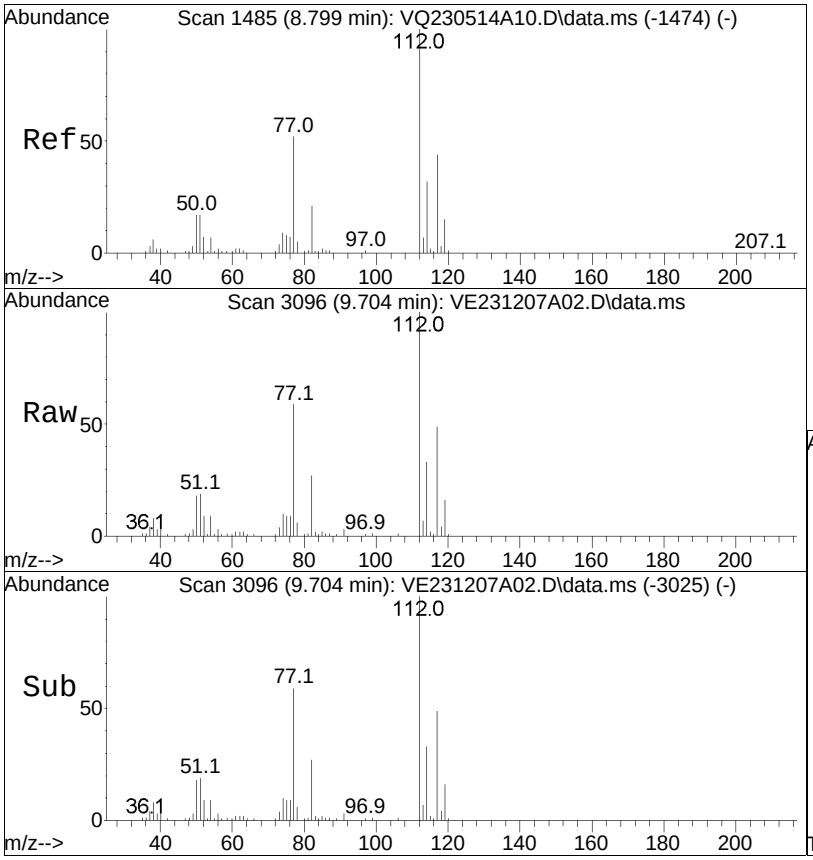


#77
2-Hexanone
Concen: 6.35 ug/L
RT: 9.334 min Scan# 2963
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 43 Resp: 18442

Ion	Ratio	Lower	Upper
43	100		
58	50.8	38.2	57.4
57	17.1	14.1	21.1

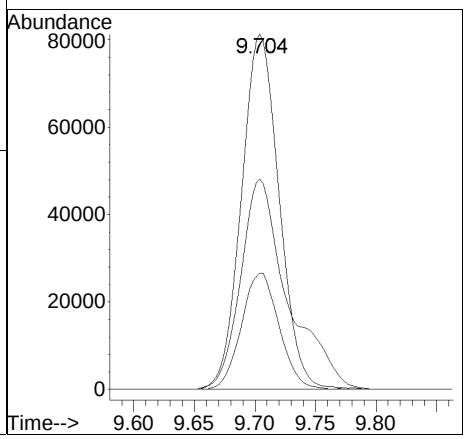


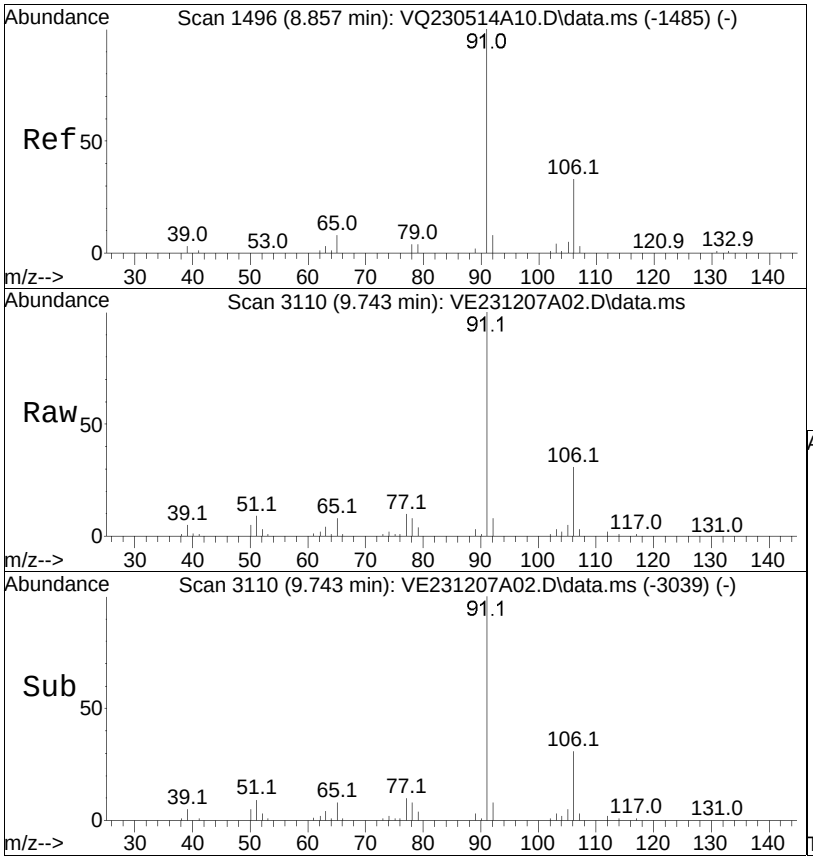


#78
Chlorobenzene
Concen: 11.15 ug/L
RT: 9.704 min Scan# 3096
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:112 Resp: 175991

Ion	Ratio	Lower	Upper
112	100		
77	74.2	50.7	76.1
114	32.8	25.6	38.4

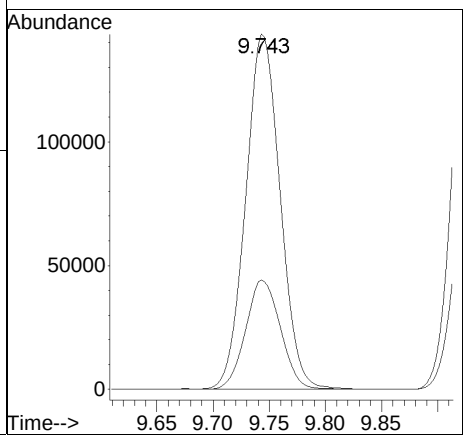


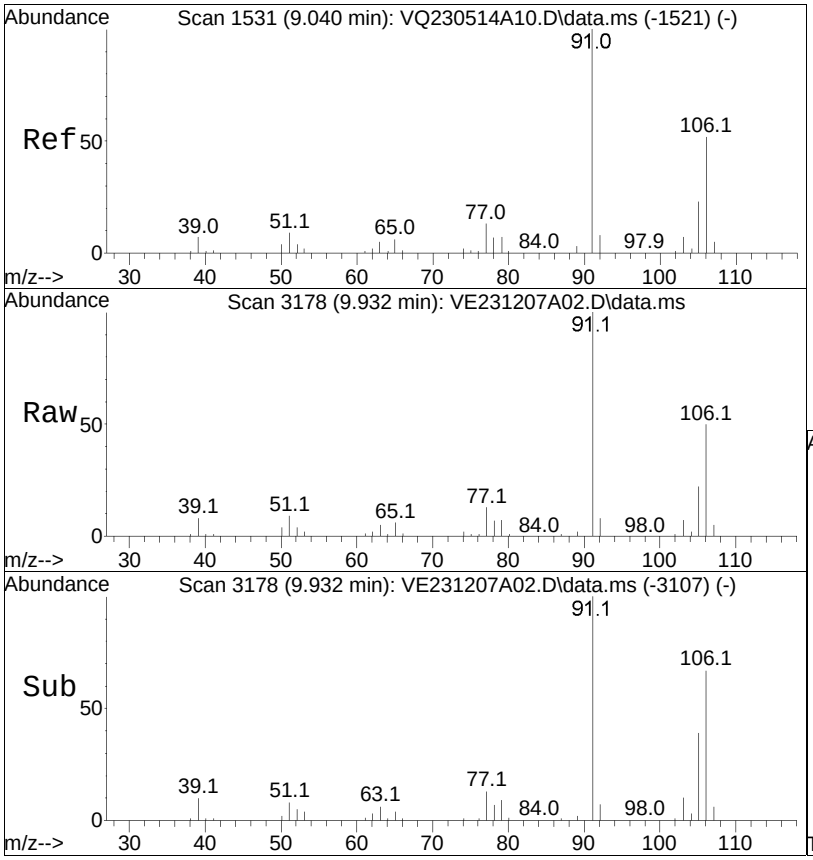


#79
Ethylbenzene
Concen: 11.08 ug/L
RT: 9.743 min Scan# 3110
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 91 Resp: 306527

Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.6	36.8

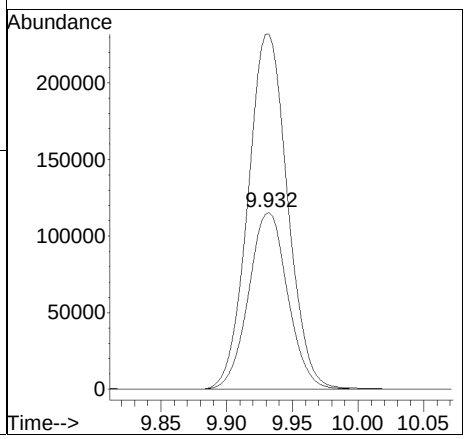


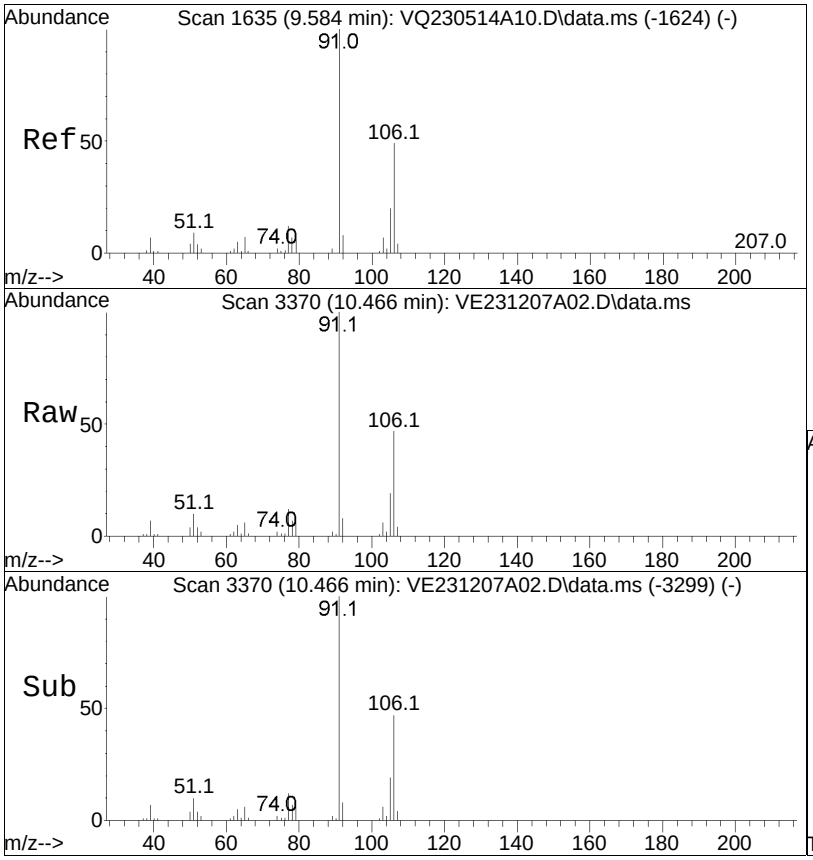


#81
p/m Xylene
Concen: 22.68 ug/L
RT: 9.932 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:106 Resp: 239869

Ion	Ratio	Lower	Upper
106	100		
91	202.6	165.5	248.3

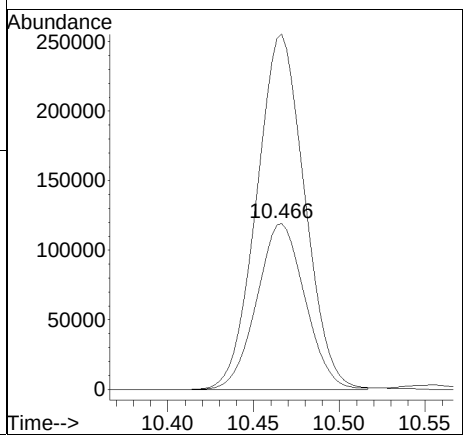


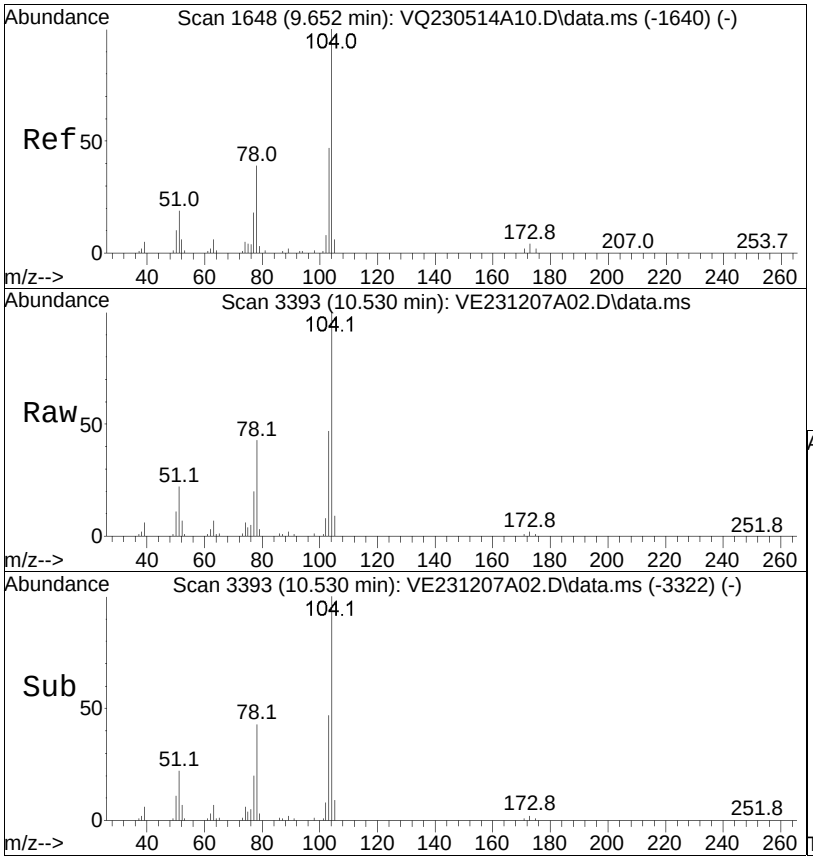


#82
o Xylene
Concen: 22.80 ug/L
RT: 10.466 min Scan# 3370
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:106 Resp: 232668

Ion	Ratio	Lower	Upper
106	100		
91	213.5	176.5	264.7

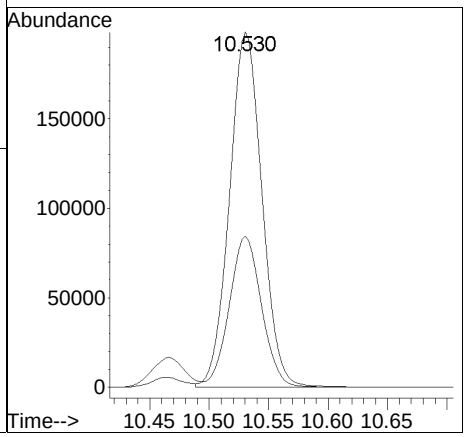


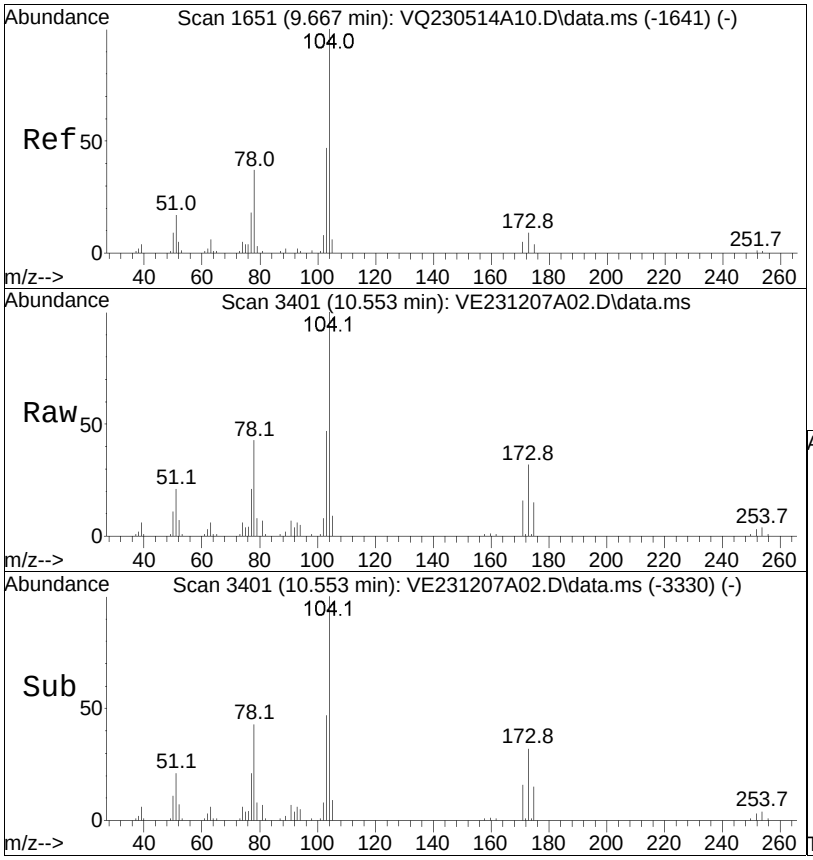


#83
Styrene
Concen: 23.28 ug/L
RT: 10.530 min Scan# 3393
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:104 Resp: 376460

Ion	Ratio	Lower	Upper
104	100		
78	42.5	37.5	56.3

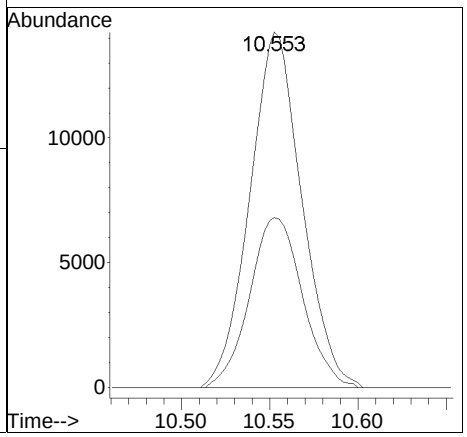


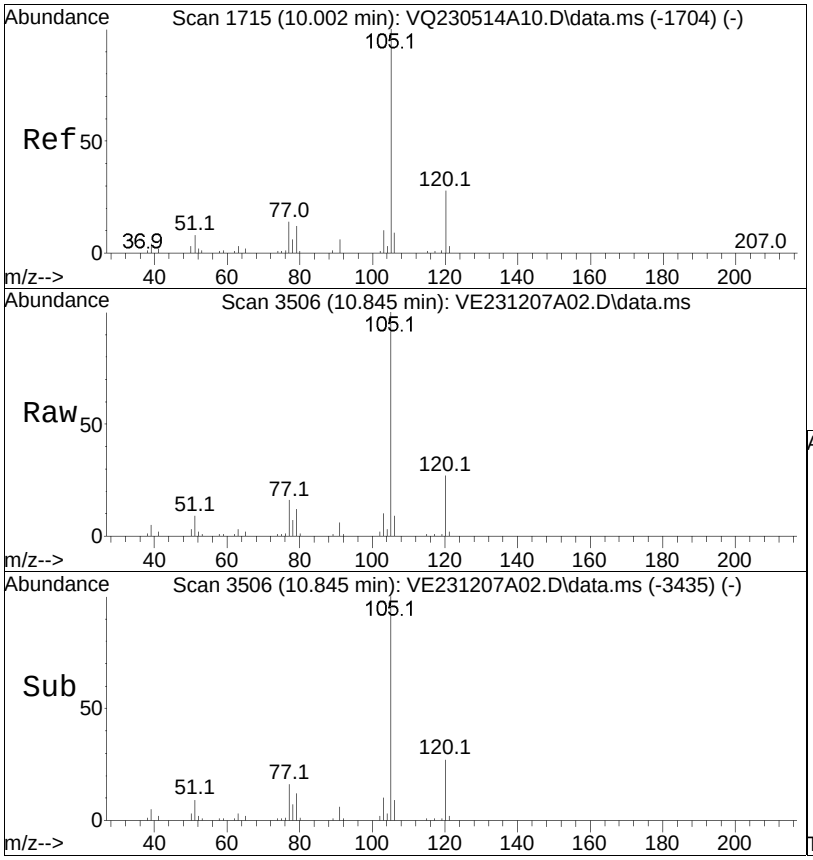


#85
Bromoform
Concen: 9.35 ug/L
RT: 10.553 min Scan# 3401
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:173 Resp: 29171

Ion	Ratio	Lower	Upper
173	100		
175	48.6	29.0	69.0

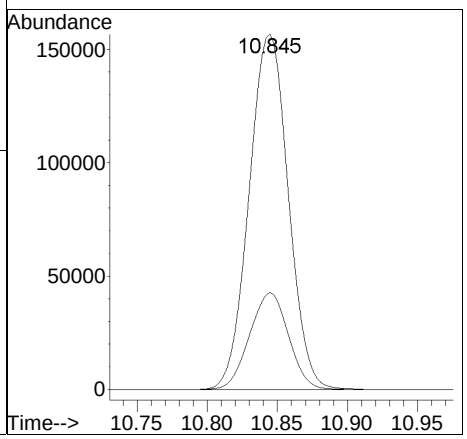


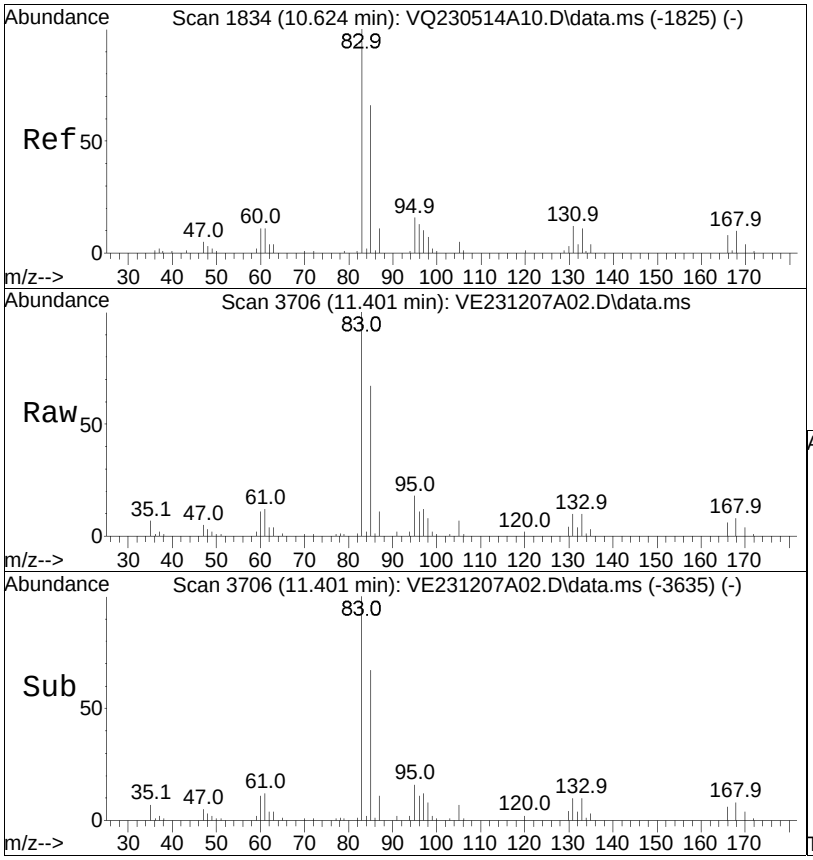


#87
Isopropylbenzene
Concen: 10.51 ug/L
RT: 10.845 min Scan# 3506
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:105 Resp: 303985

Ion	Ratio	Lower	Upper
105	100		
120	27.0	6.5	46.5

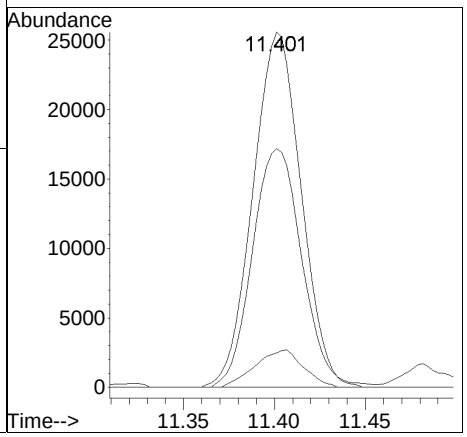


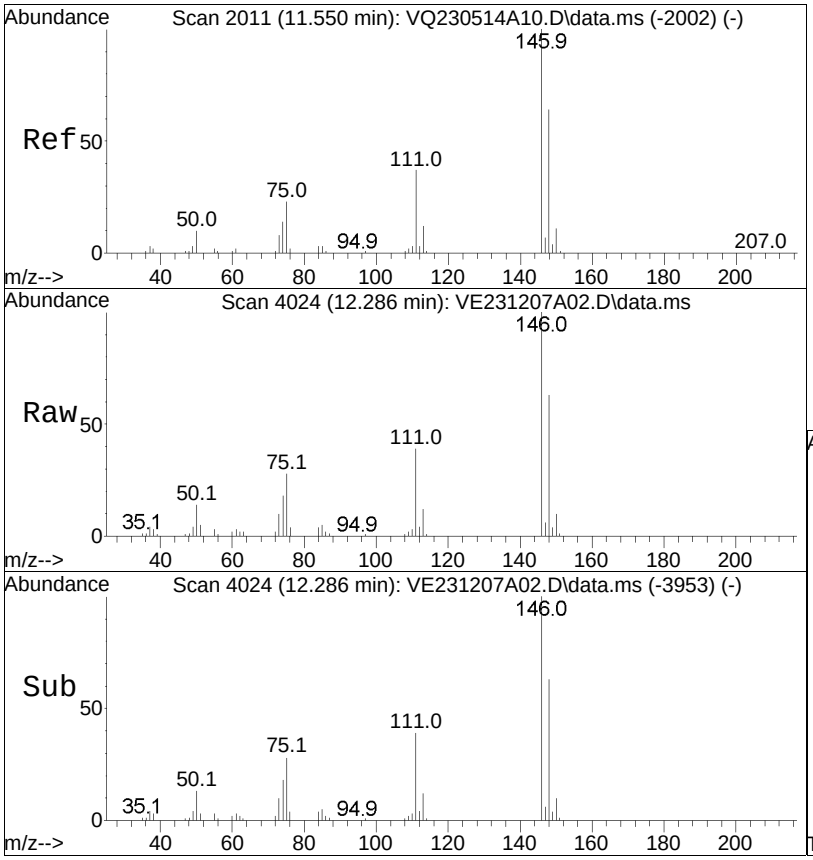


#92
1,1,2,2-Tetrachloroethane
Concen: 10.29 ug/L
RT: 11.401 min Scan# 3706
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion: 83 Resp: 47244

Ion	Ratio	Lower	Upper
83	100		
131	10.6	0.0	31.0
85	69.1	45.4	85.4

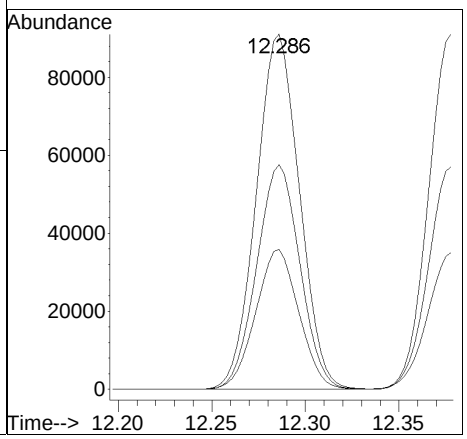


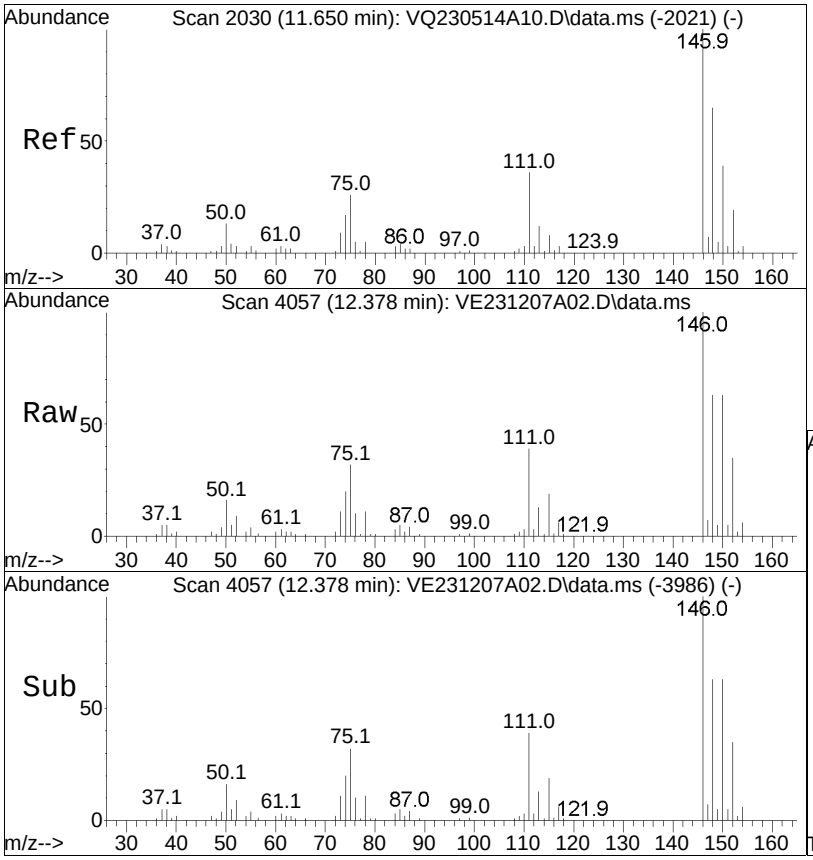


#105
1,3-Dichlorobenzene
Concen: 10.72 ug/L
RT: 12.286 min Scan# 4024
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:146 Resp: 146328

Ion	Ratio	Lower	Upper
146	100		
111	39.4	27.0	56.0
148	63.4	41.2	85.6

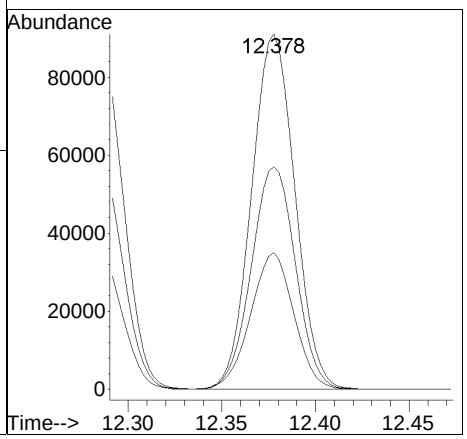


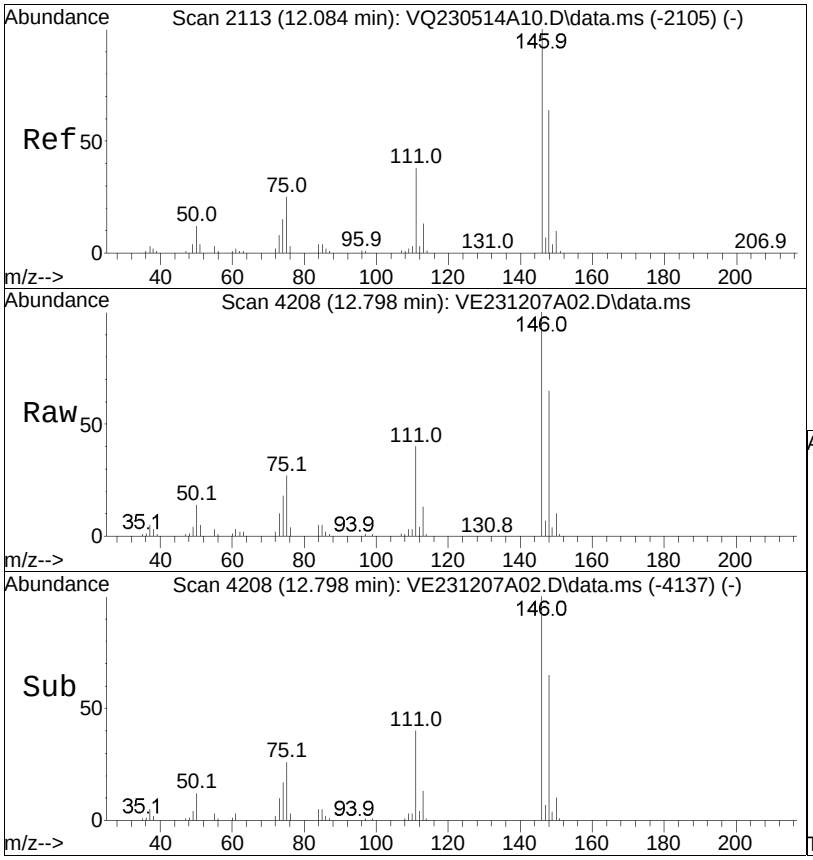


#106
1,4-Dichlorobenzene
Concen: 10.73 ug/L
RT: 12.378 min Scan# 4057
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:146 Resp: 146752

Ion	Ratio	Lower	Upper
146	100		
111	38.6	32.3	48.5
148	64.0	51.0	76.6

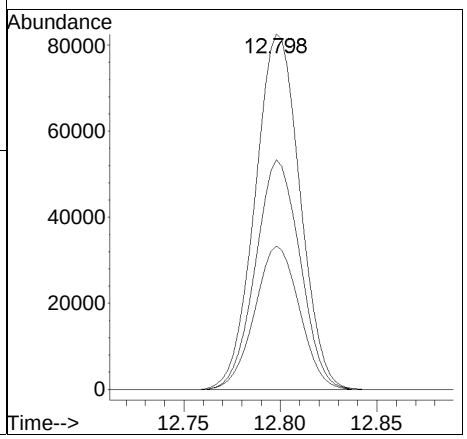


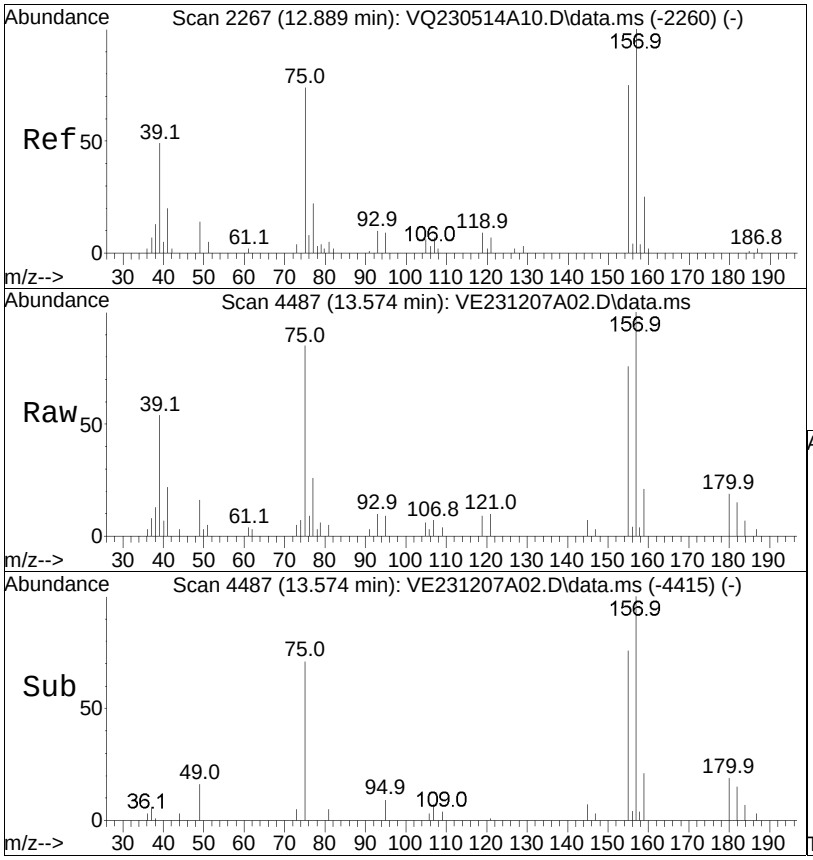


#109
1,2-Dichlorobenzene
Concen: 10.56 ug/L
RT: 12.798 min Scan# 4208
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:146 Resp: 133744

Ion	Ratio	Lower	Upper
146	100		
111	40.2	27.7	57.5
148	64.0	41.3	85.7

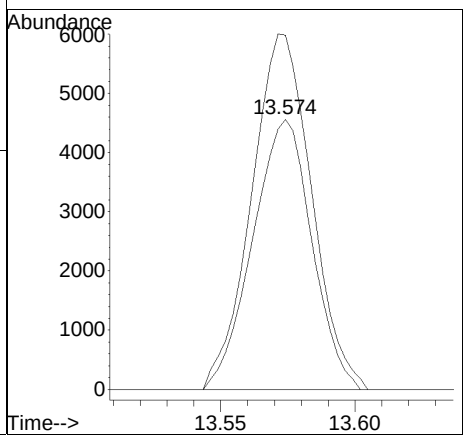


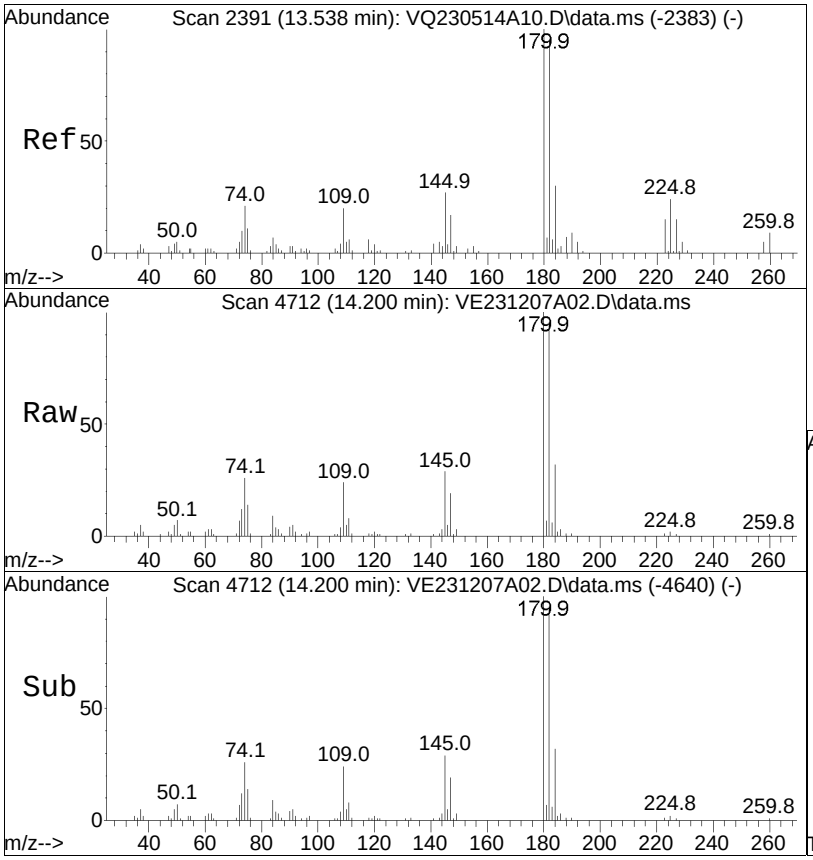


#111
1,2-Dibromo-3-chloropropane
Concen: 9.56 ug/L
RT: 13.574 min Scan# 4487
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:155 Resp: 6973

Ion	Ratio	Lower	Upper
155	100		
157	133.6	100.1	150.1

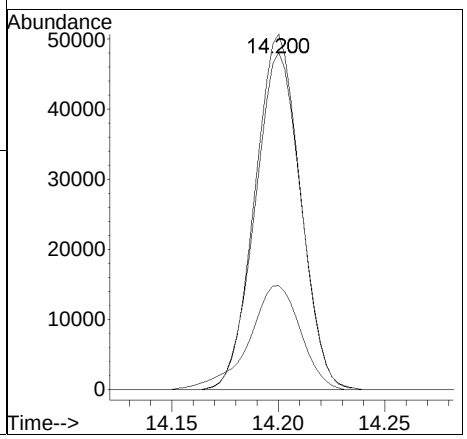


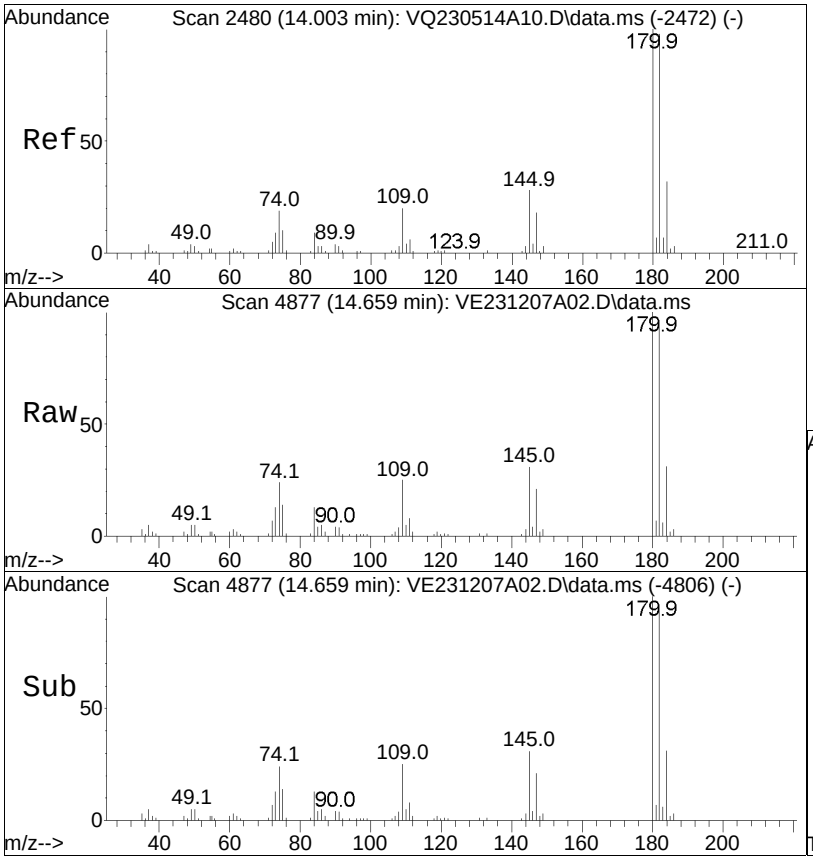


#114
1,2,4-Trichlorobenzene
Concen: 9.72 ug/L
RT: 14.200 min Scan# 4712
Delta R.T. 0.000 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:180 Resp: 74963

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.0	114.0
145	33.2	28.4	42.6

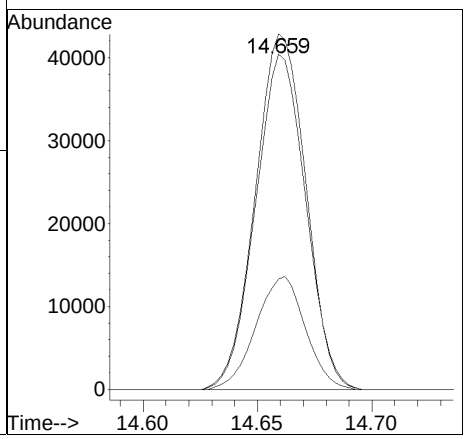




#116
1,2,3-Trichlorobenzene
Concen: 9.79 ug/L
RT: 14.659 min Scan# 4877
Delta R.T. -0.003 min
Lab File: VE231207A02.D
Acq: 7 Dec 2023 6:55 am

Tgt Ion:180 Resp: 65803

Ion	Ratio	Lower	Upper
180	100		
182	93.4	76.5	114.7
145	31.0	26.6	39.8



Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B03.D
Acq On : 6 Dec 2023 10:09 am
Operator : ELAINE:PID
Sample : WG1860843-4,31,10,10
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 11:38:50 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	326875	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 101.46%			
63) Chlorobenzene-d5	9.684	117	296461	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 102.18%			
84) 1,4-Dichlorobenzene-d4	12.364	152	172783	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 102.56%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	82939	10.164	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.64%			
47) 1,2-Dichloroethane-d4	5.839	65	80816	8.770	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.70%			
64) Toluene-d8	7.831	98	330496	9.711	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.11%			
88) 4-Bromofluorobenzene	11.162	95	123314	9.434	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.658	85	52998	6.539	ug/L	97
3) Chloromethane	1.850	50	58079	6.264	ug/L	98
4) Vinyl chloride	1.930	62	66364	7.883	ug/L	98
5) Bromomethane	2.250	94	23791	9.055	ug/L	99
6) Chloroethane	2.373	64	39133	9.073	ug/L	97
7) Trichlorofluoromethane	2.517	101	94678	11.075	ug/L	99
10) 1,1-Dichloroethene	3.018	96	62693	11.486	ug/L #	80
11) Carbon disulfide	3.049	76	187471	10.834	ug/L	99
12) Freon-113	3.057	101	67168	11.063	ug/L	93
15) Methylene chloride	3.588	84	72815	10.685	ug/L	87
17) Acetone	3.625	43	10913	6.708	ug/L #	89
18) trans-1,2-Dichloroethene	3.741	96	69401	11.406	ug/L	85
19) Methyl acetate	3.747	43	25857	6.734	ug/L	96
21) Methyl tert-butyl ether	3.842	73	154557	10.458	ug/L	92
25) 1,1-Dichloroethane	4.337	63	128176	9.761	ug/L	99
30) cis-1,2-Dichloroethene	4.863	96	80425	11.520	ug/L #	83
33) Bromochloromethane	5.057	128	36893	12.156	ug/L #	82
34) Cyclohexane	5.060	56	119795	8.060	ug/L	90
35) Chloroform	5.127	83	121896	11.017	ug/L	96
37) Carbon tetrachloride	5.269	117	94817	11.443	ug/L	98

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B03.D
Acq On : 6 Dec 2023 10:09 am
Operator : ELAINE:PID
Sample : WG1860843-4,31,10,10
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 11:38:50 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,1,1-Trichloroethane	5.333	97	112726	11.351	ug/L		94
42) 2-Butanone	5.422	43	15347	6.609	ug/L	#	72
45) Benzene	5.706	78	287136	11.127	ug/L		94
48) 1,2-Dichloroethane	5.912	62	76311	8.930	ug/L		98
51) Methyl cyclohexane	6.301	83	117919	10.405	ug/L		89
52) Trichloroethene	6.307	95	69196	10.539	ug/L		98
55) 1,2-Dichloropropane	6.858	63	68099	9.127	ug/L		96
58) Bromodichloromethane	6.924	83	87546	10.548	ug/L		99
61) 1,4-Dioxane	7.130	88	23056	598.265	ug/L	#	84
62) cis-1,3-Dichloropropene	7.620	75	103154	10.467	ug/L	#	83
65) Toluene	7.890	92	182935	10.852	ug/L		99
66) 4-Methyl-2-pentanone	8.321	58	12684	6.637	ug/L		89
67) Tetrachloroethene	8.338	166	81542	10.779	ug/L		94
69) trans-1,3-Dichloropropene	8.374	75	85898	10.068	ug/L	#	79
72) 1,1,2-Trichloroethane	8.560	83	43162	10.073	ug/L		98
73) Chlorodibromomethane	8.772	129	60171	9.952	ug/L		97
75) 1,2-Dibromoethane	9.053	107	48352	9.812	ug/L		98
77) 2-Hexanone	9.337	43	21141	6.223	ug/L		94
78) Chlorobenzene	9.704	112	202398	10.966	ug/L		91
79) Ethylbenzene	9.746	91	352566	10.899	ug/L		99
81) p/m Xylene	9.932	106	277410	22.435	ug/L		96
82) o Xylene	10.466	106	269992	22.627	ug/L		95
83) Styrene	10.530	104	433781	22.943	ug/L		91
85) Bromoform	10.555	173	33607	9.246	ug/L		96
87) Isopropylbenzene	10.845	105	353024	10.477	ug/L		99
92) 1,1,2,2-Tetrachloroethane	11.401	83	55553	10.391	ug/L		100
105) 1,3-Dichlorobenzene	12.286	146	167535	10.534	ug/L		98
106) 1,4-Dichlorobenzene	12.378	146	166588	10.455	ug/L		98
109) 1,2-Dichlorobenzene	12.798	146	151720	10.286	ug/L		98
111) 1,2-Dibromo-3-chloropr...	13.571	155	7841	9.228	ug/L		92
114) 1,2,4-Trichlorobenzene	14.200	180	86488	9.629	ug/L		98
116) 1,2,3-Trichlorobenzene	14.659	180	75440	9.638	ug/L		99

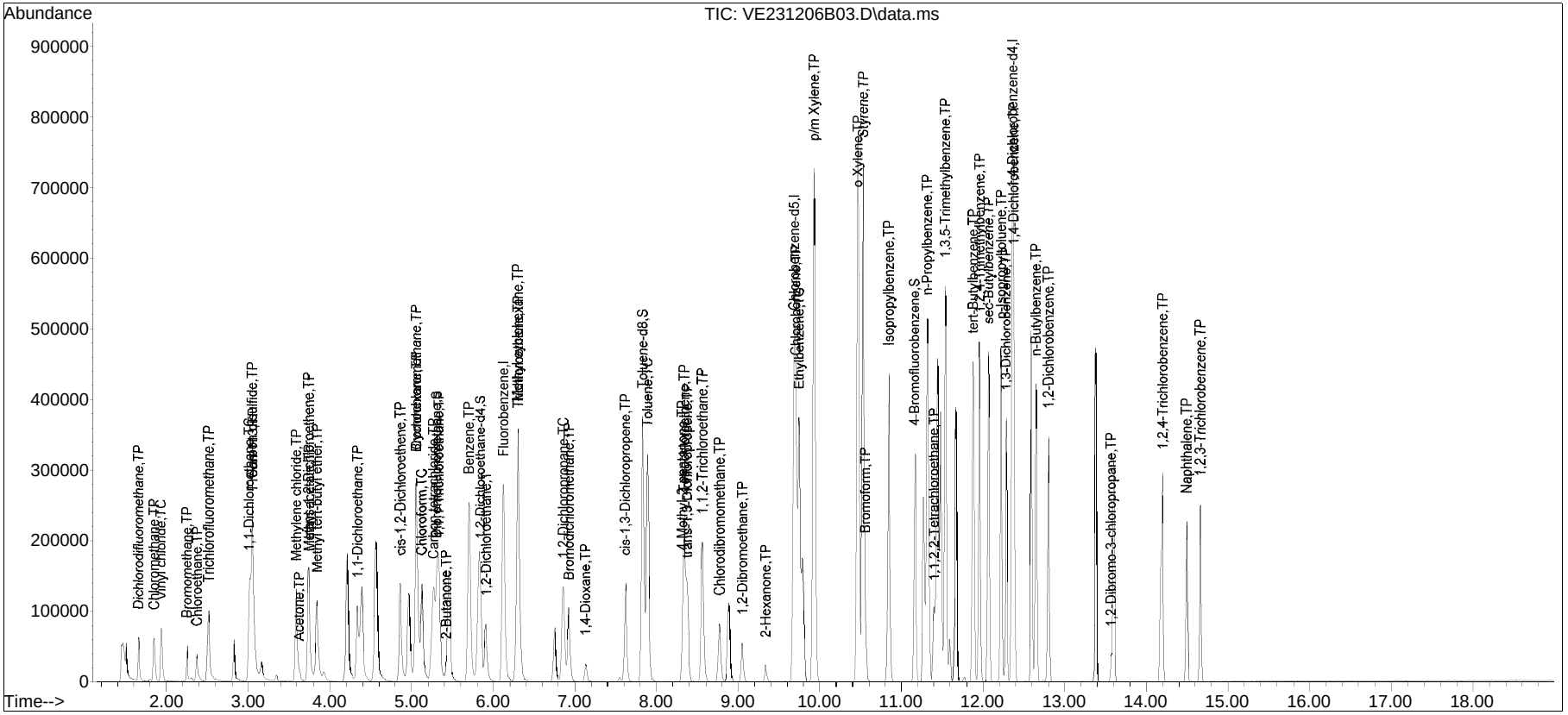
(#) = qualifier out of range (m) = manual integration (+) = signals summed

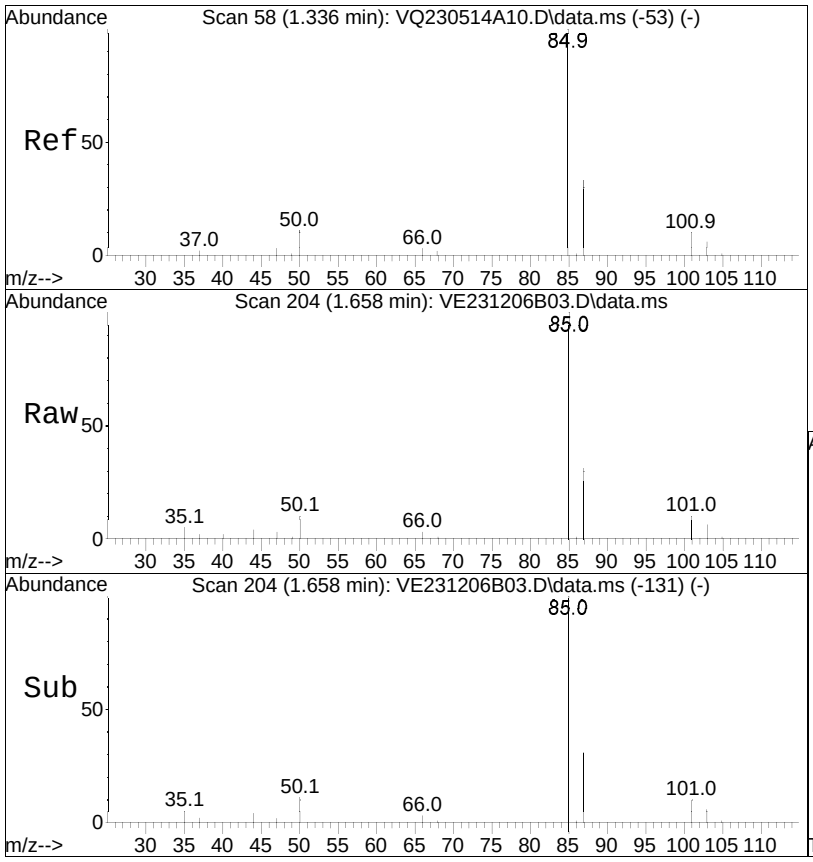
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B03.D
Acq On : 6 Dec 2023 10:09 am
Operator : ELAINE:PID
Sample : WG1860843-4,31,10,10
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 11:38:50 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

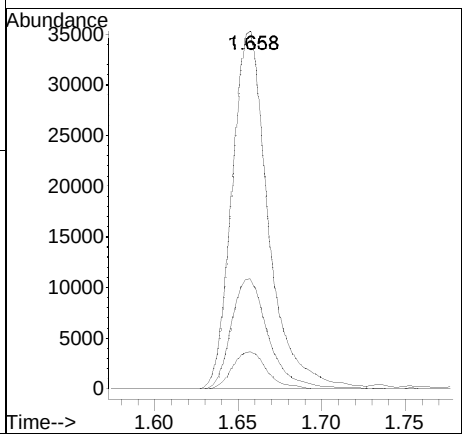


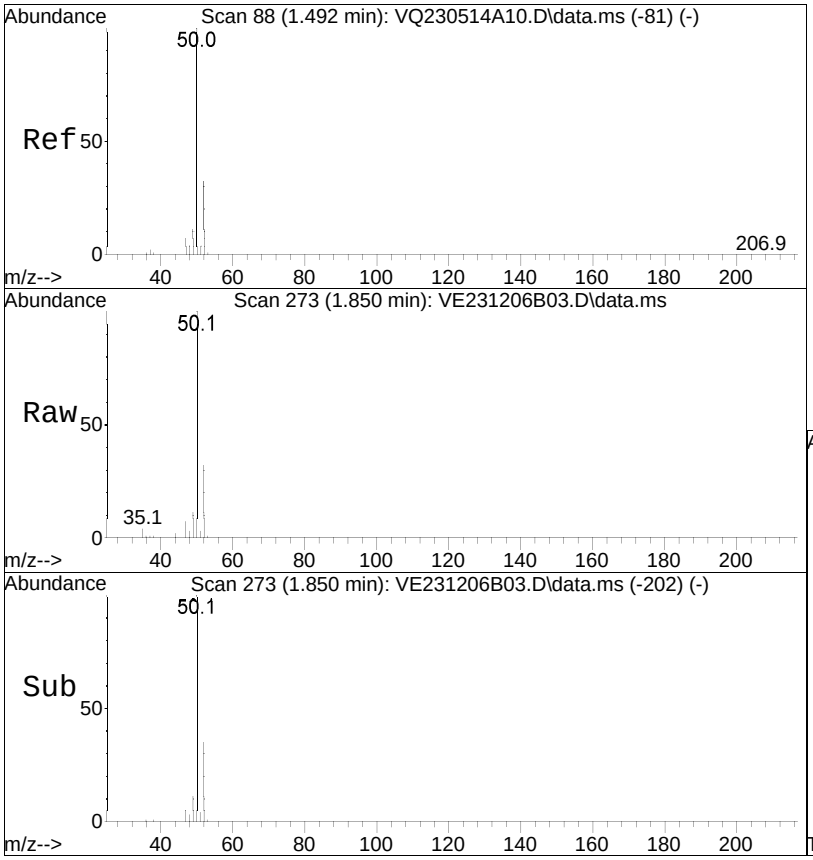


#2
Dichlorodifluoromethane
Concen: 6.54 ug/L
RT: 1.658 min Scan# 204
Delta R.T. 0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 85 Resp: 52998

Ion	Ratio	Lower	Upper
85	100		
87	31.7	20.9	43.5
50	10.0	8.6	18.0

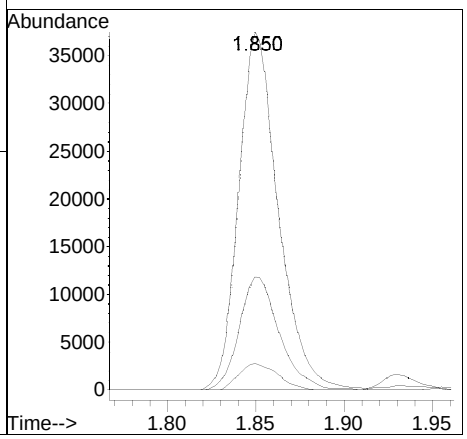


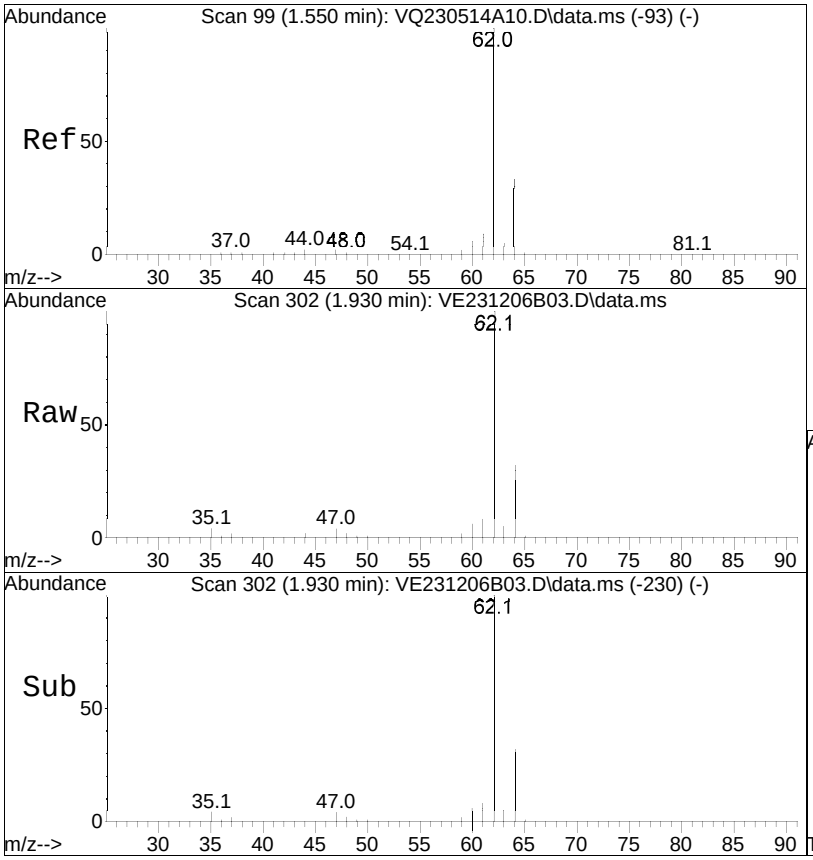


#3
Chloromethane
Concen: 6.26 ug/L
RT: 1.850 min Scan# 273
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 50 Resp: 58079

Ion	Ratio	Lower	Upper
50	100		
52	32.2	11.5	51.5
47	7.4	0.0	28.2

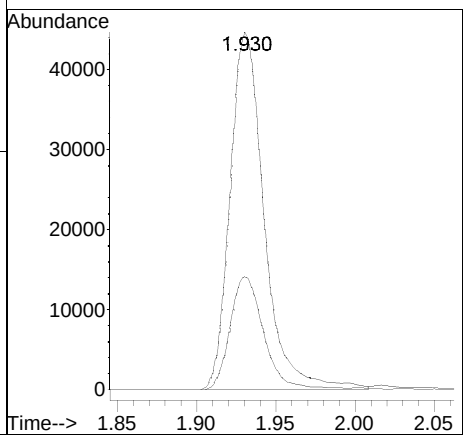


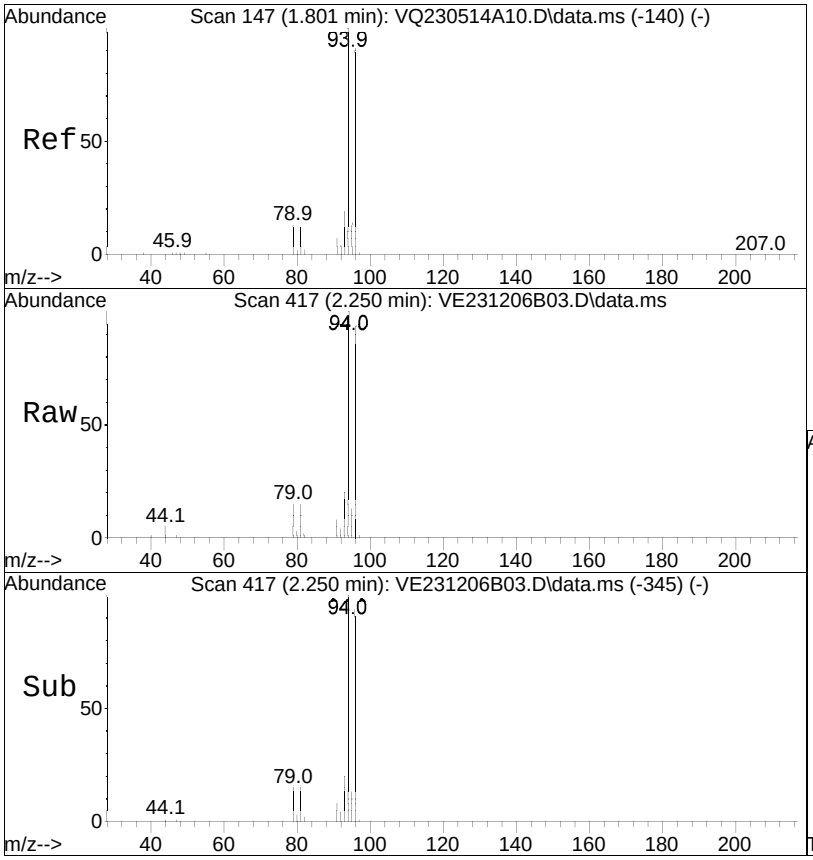


#4
Vinyl chloride
Concen: 7.88 ug/L
RT: 1.930 min Scan# 302
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 62 Resp: 66364

Ion	Ratio	Lower	Upper
62	100		
64	31.4	12.4	52.4

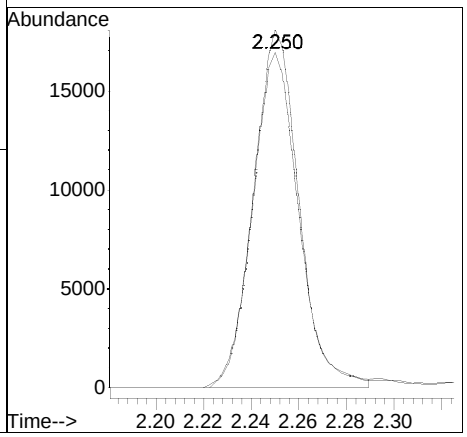


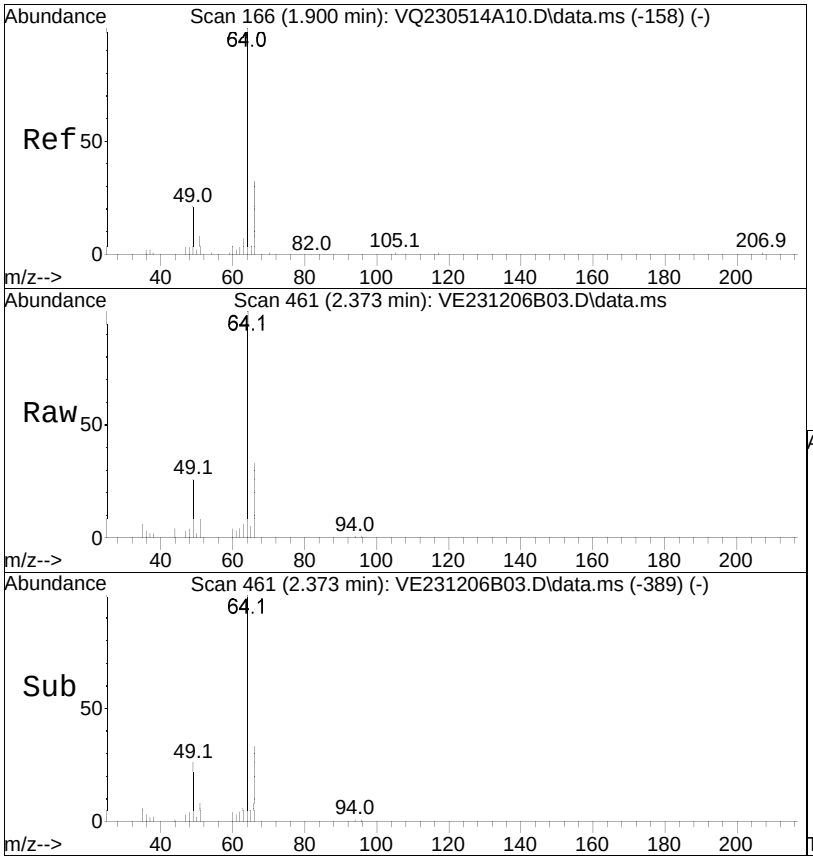


#5
Bromomethane
Concen: 9.06 ug/L
RT: 2.250 min Scan# 417
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 94 Resp: 23791

Ion	Ratio	Lower	Upper
94	100		
96	94.7	73.9	113.9

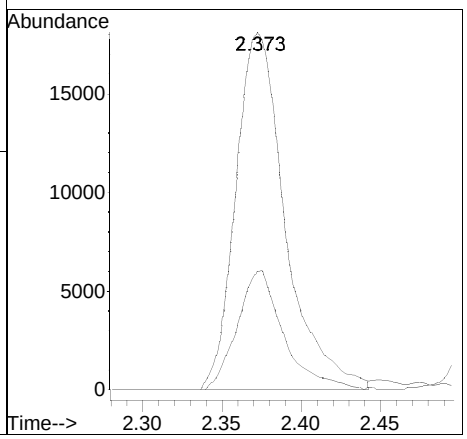


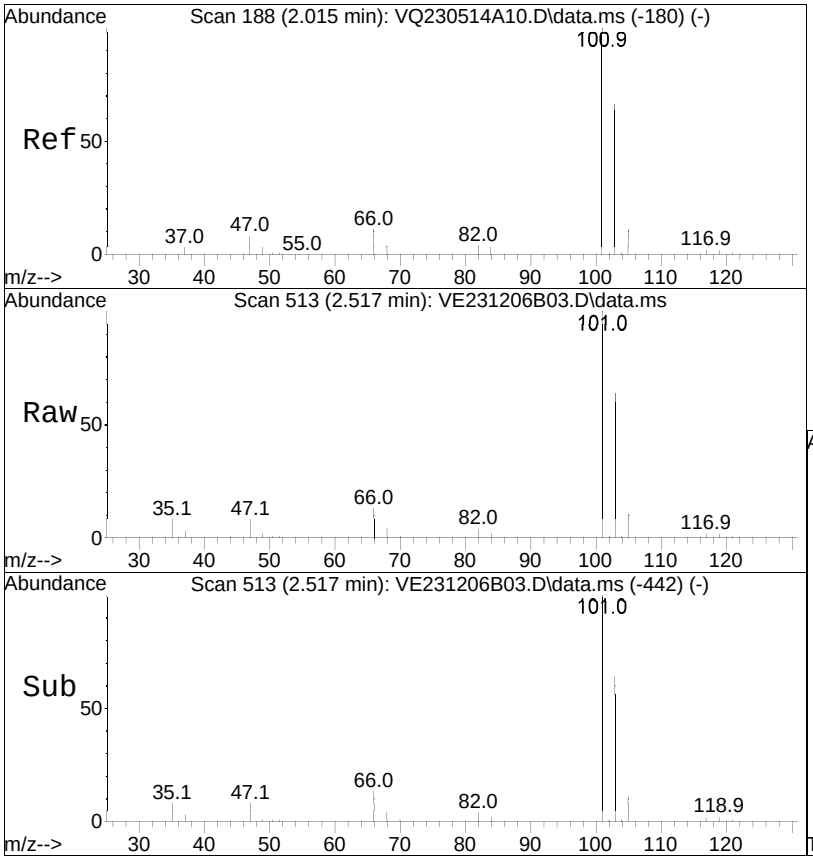


#6
Chloroethane
Concen: 9.07 ug/L
RT: 2.373 min Scan# 461
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 64 Resp: 39133

Ion	Ratio	Lower	Upper
64	100		
66	31.4	9.7	49.7

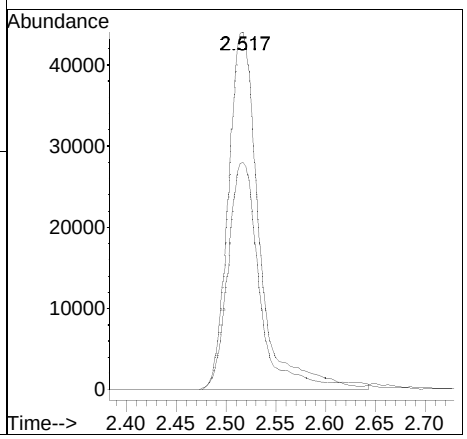


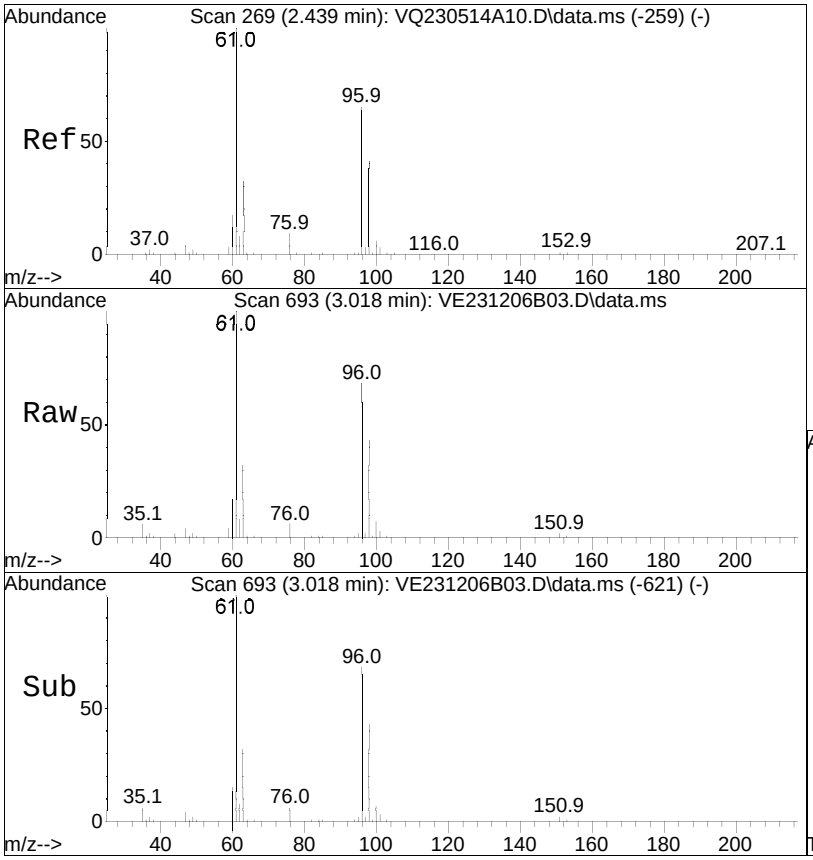


#7
Trichlorofluoromethane
Concen: 11.07 ug/L
RT: 2.517 min Scan# 513
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:101 Resp: 94678

Ion	Ratio	Lower	Upper
101	100		
103	64.2	52.2	78.2

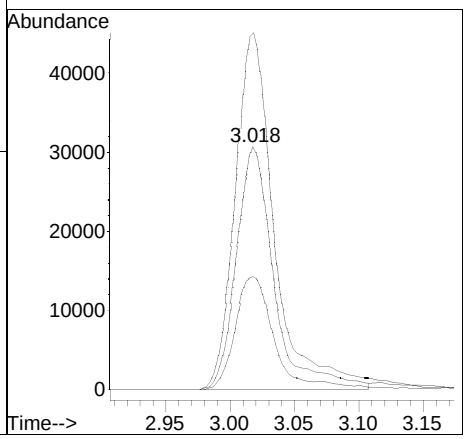


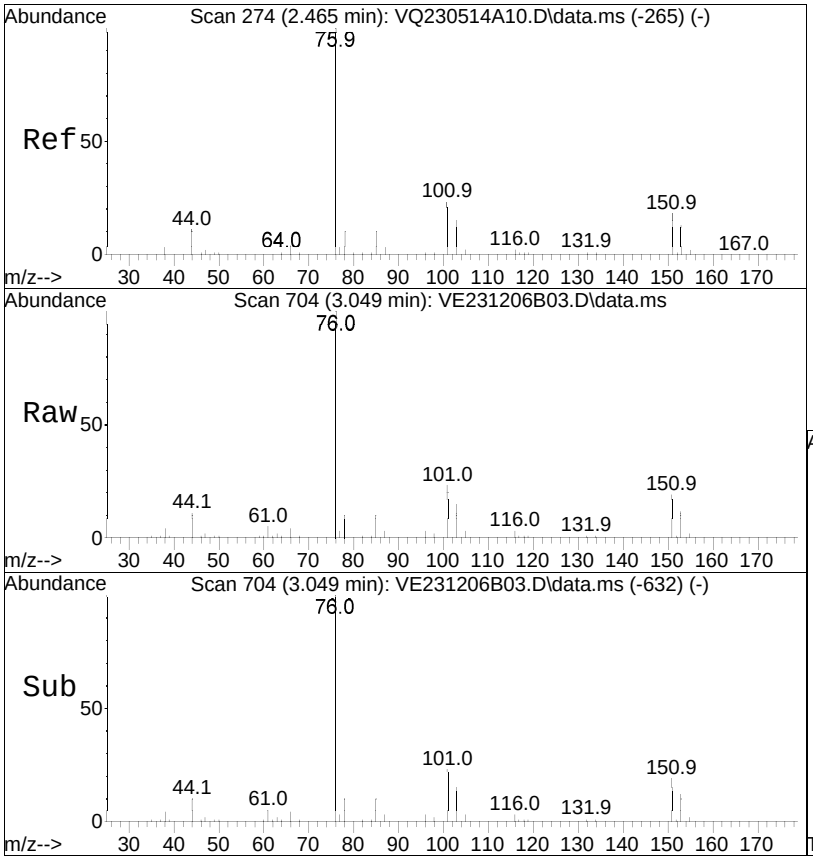


#10
1,1-Dichloroethene
Concen: 11.49 ug/L
RT: 3.018 min Scan# 693
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 96 Resp: 62693

Ion	Ratio	Lower	Upper
96	100		
61	156.9	149.7	224.5
63	45.8	46.8	70.2#

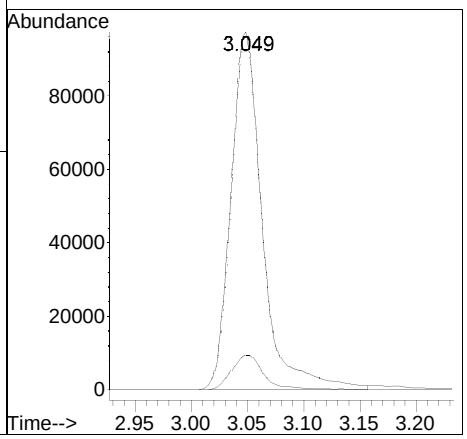


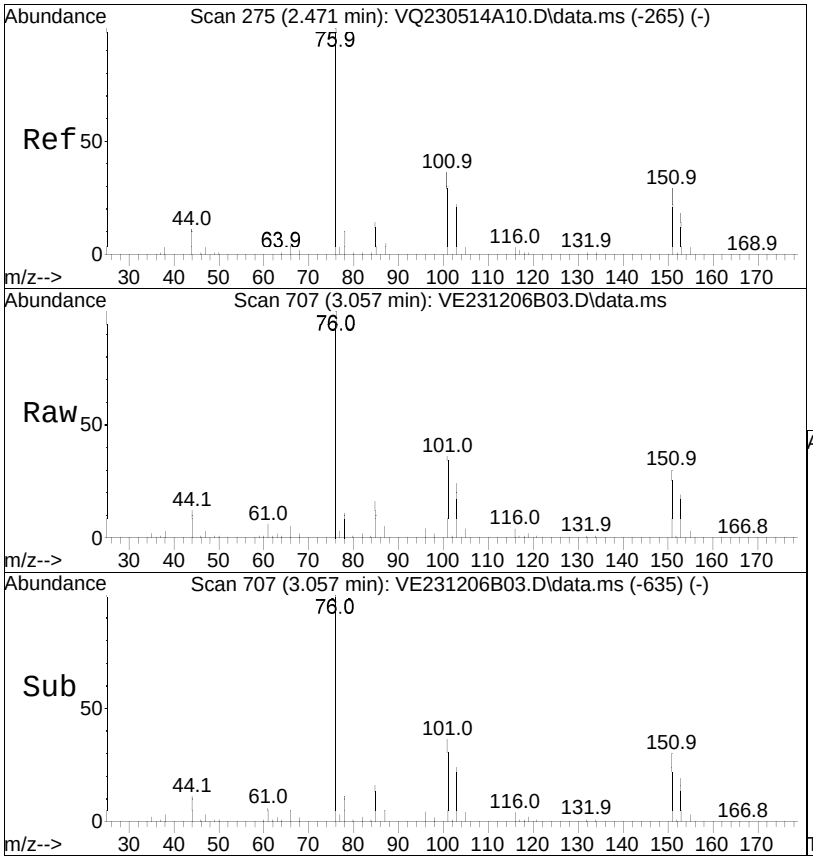


#11
Carbon disulfide
Concen: 10.83 ug/L
RT: 3.049 min Scan# 704
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 76 Resp: 187471

Ion	Ratio	Lower	Upper
76	100		
78	10.1	6.8	14.0

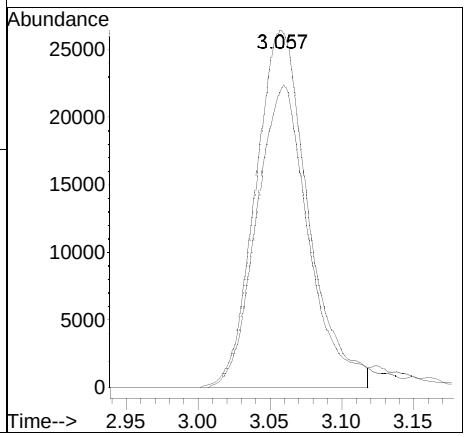


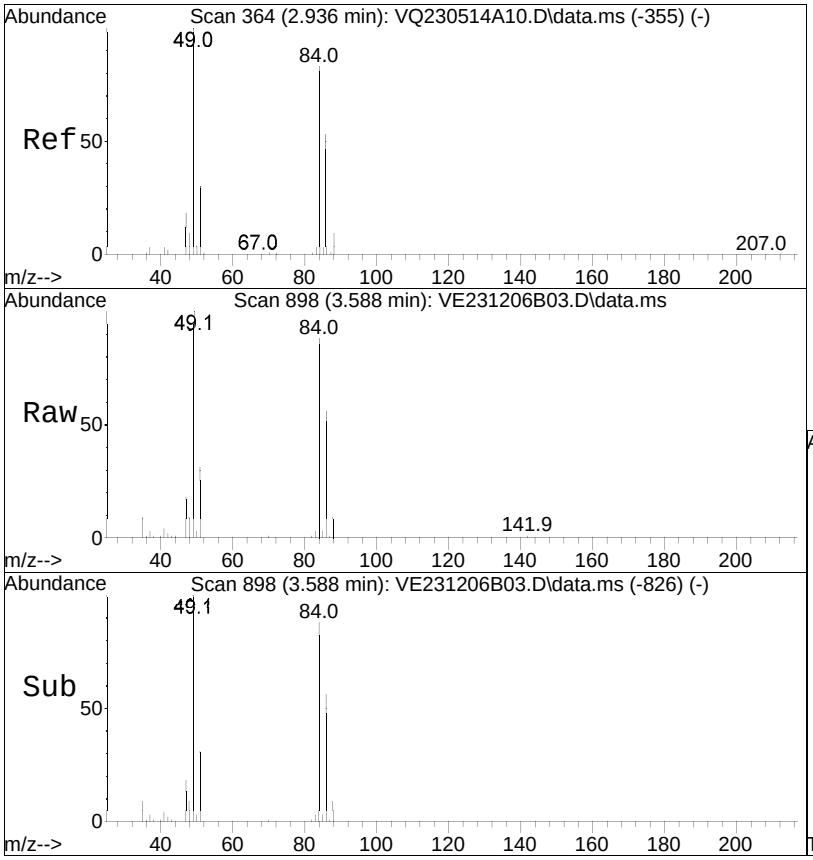


#12
Freon-113
Concen: 11.06 ug/L
RT: 3.057 min Scan# 707
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:101 Resp: 67168

Ion	Ratio	Lower	Upper
101	100		
151	85.9	63.6	95.4

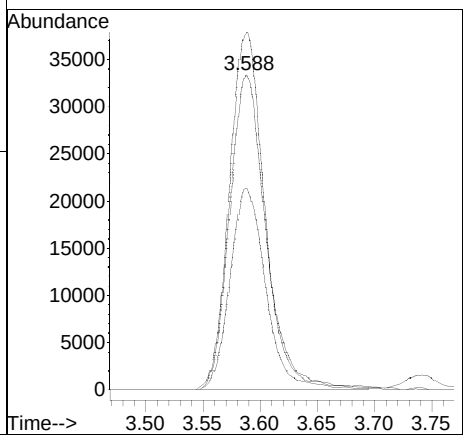


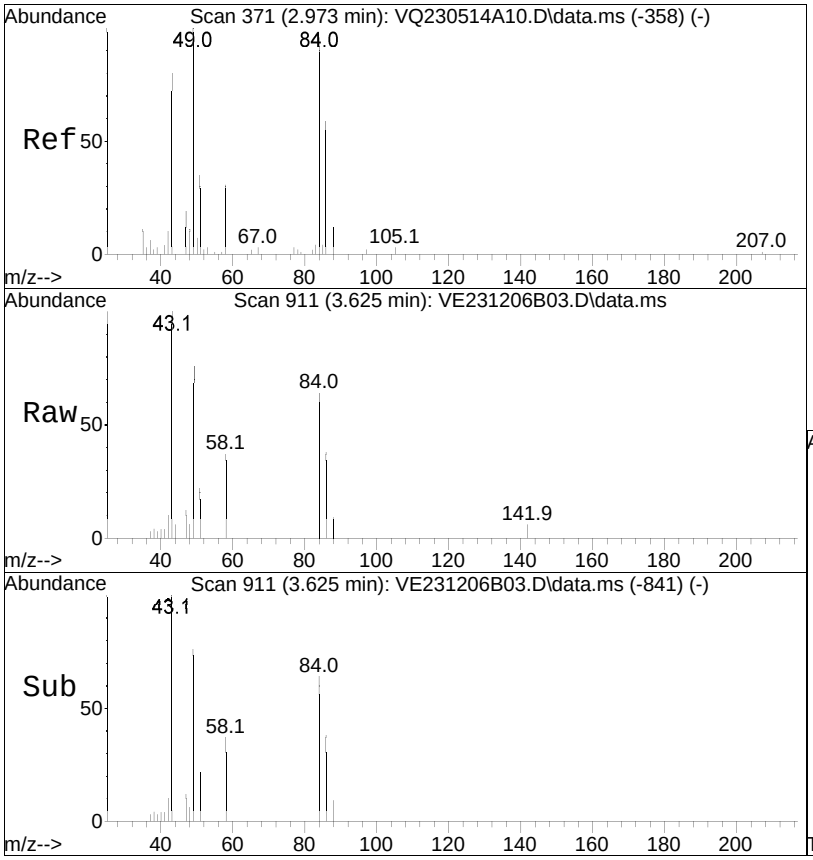


#15
Methylene chloride
Concen: 10.69 ug/L
RT: 3.588 min Scan# 898
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 84 Resp: 72815

Ion	Ratio	Lower	Upper
84	100		
86	63.1	41.0	85.2
49	112.4	88.1	183.1

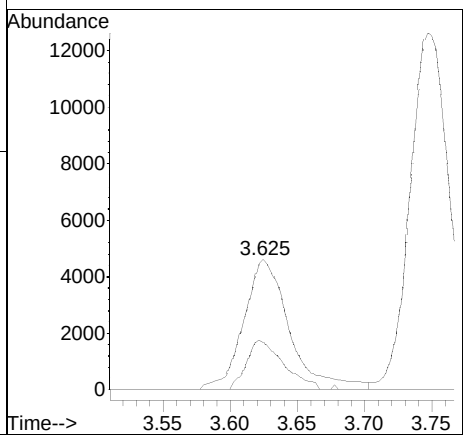


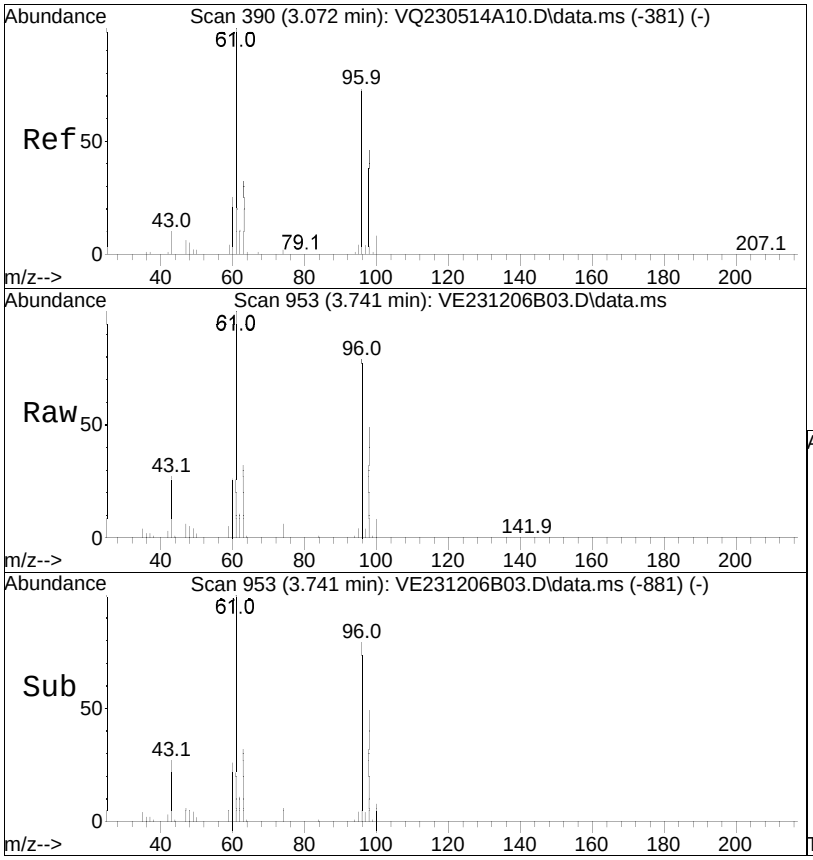


#17
Acetone
Concen: 6.71 ug/L
RT: 3.625 min Scan# 911
Delta R.T. -0.005 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 43 Resp: 10913

Ion	Ratio	Lower	Upper
43	100		
58	30.7	20.2	30.4#

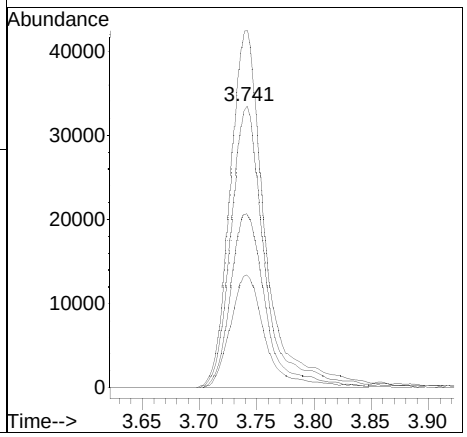


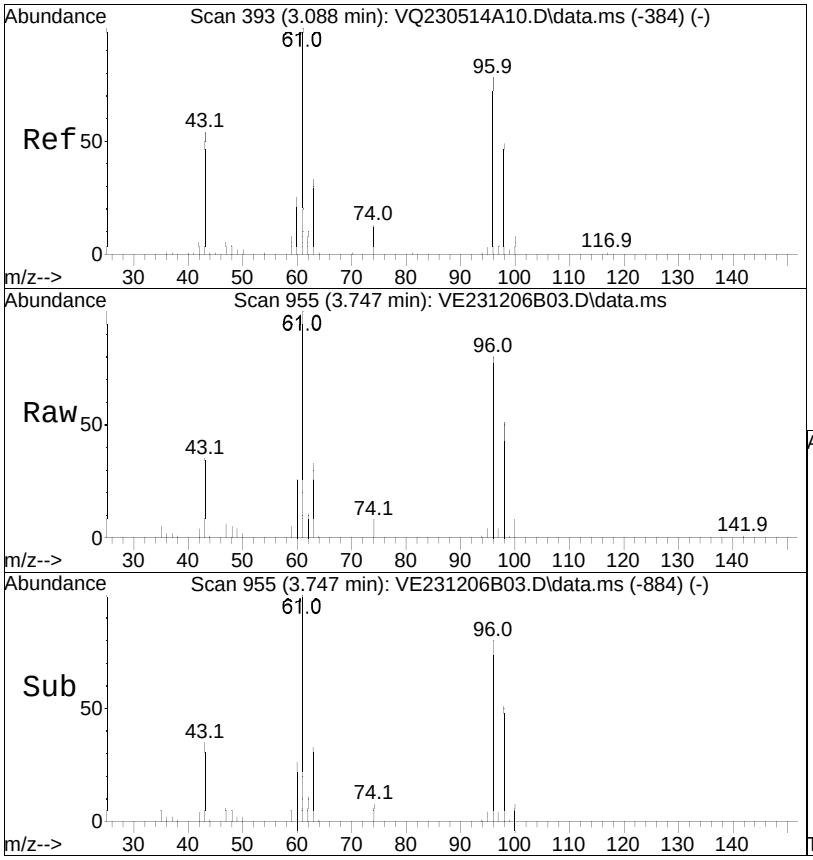


#18
trans-1,2-Dichloroethene
Concen: 11.41 ug/L
RT: 3.741 min Scan# 953
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 96 Resp: 69401

Ion	Ratio	Lower	Upper
96	100		
61	130.3	102.8	213.4
98	64.1	41.8	86.8
63	41.4	32.2	66.8

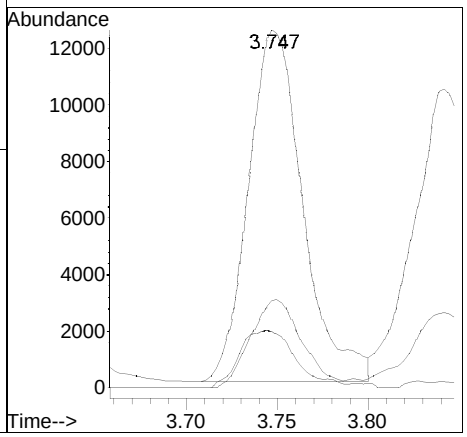


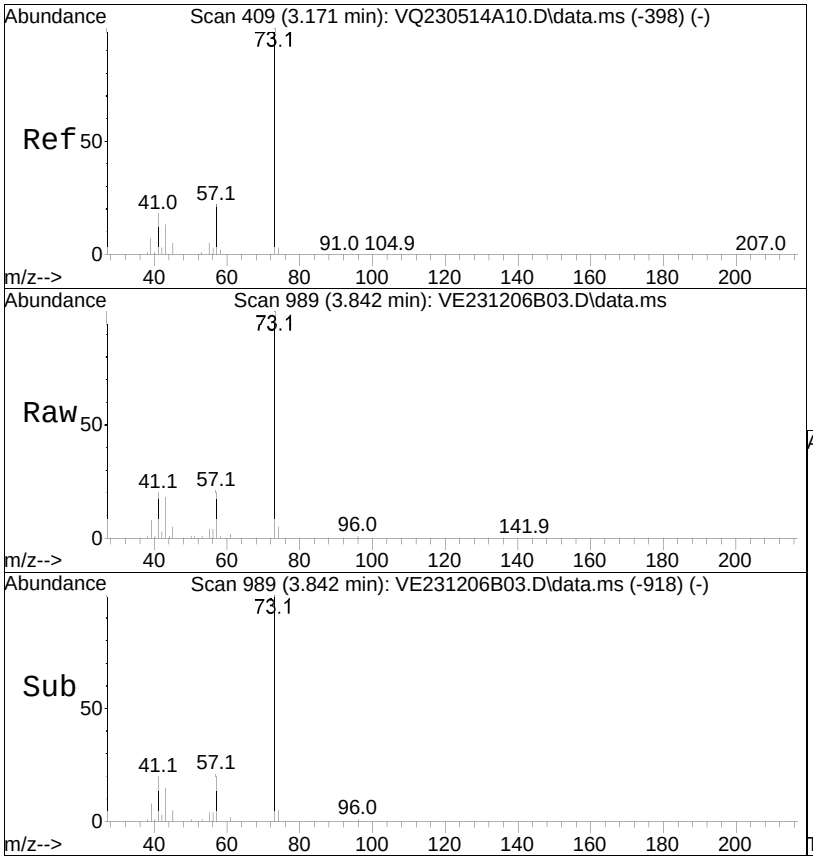


#19
Methyl acetate
Concen: 6.73 ug/L
RT: 3.747 min Scan# 955
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 43 Resp: 25857

Ion	Ratio	Lower	Upper
43	100		
74	23.9	16.6	24.8
59	17.0	13.9	20.9

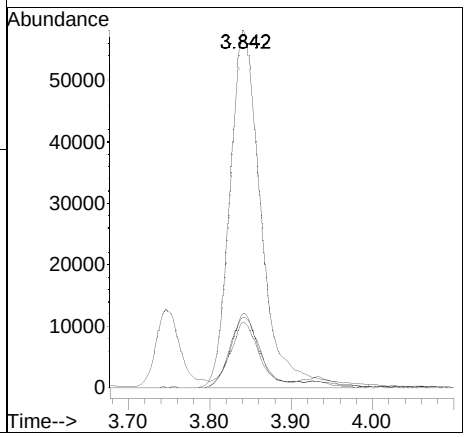


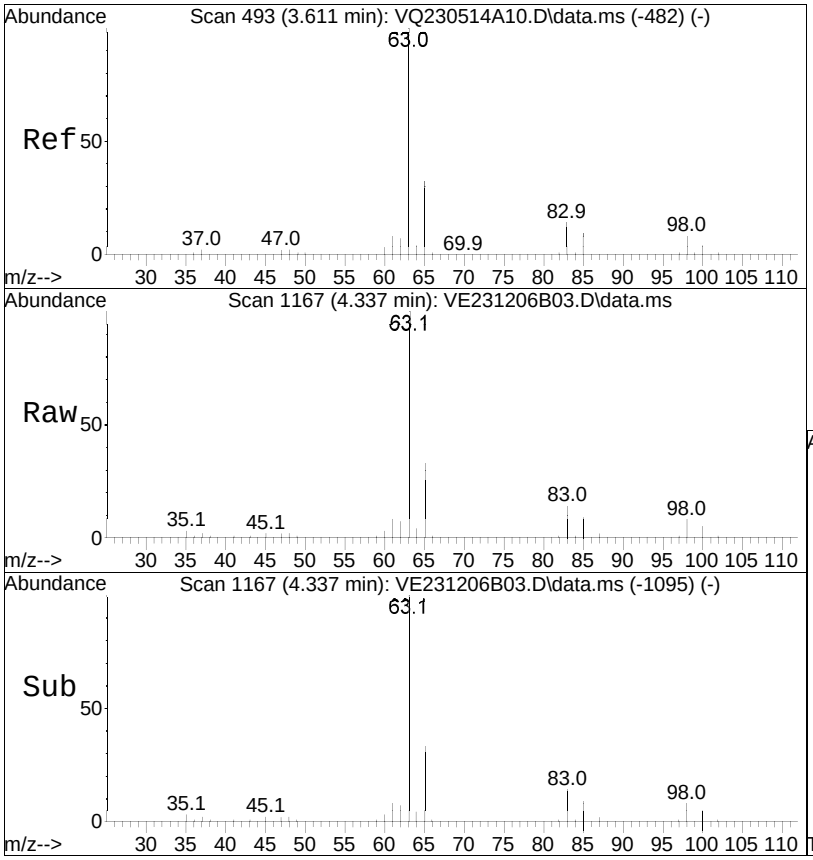


#21
Methyl tert-butyl ether
Concen: 10.46 ug/L
RT: 3.842 min Scan# 989
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 73 Resp: 154557

Ion	Ratio	Lower	Upper
73	100		
57	19.8	14.0	29.0
43	14.6	13.6	28.2
41	19.1	15.0	31.2

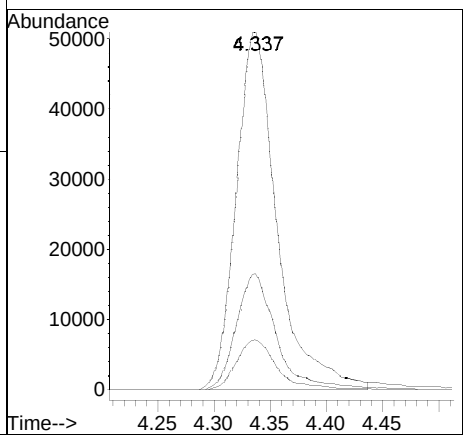


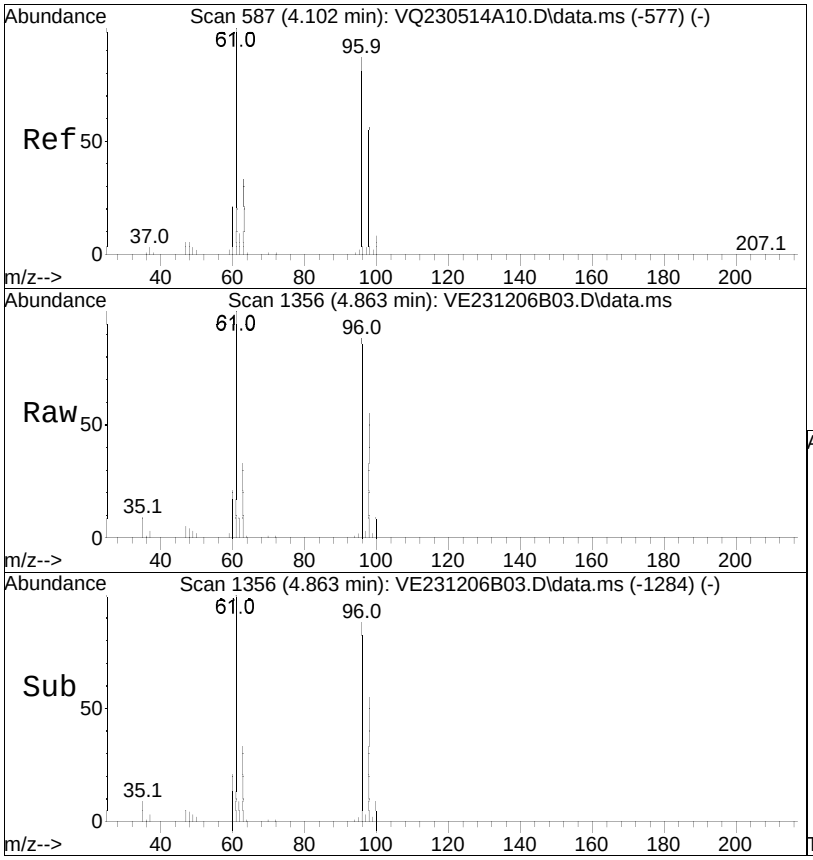


#25
1,1-Dichloroethane
Concen: 9.76 ug/L
RT: 4.337 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 63 Resp: 128176

Ion	Ratio	Lower	Upper
63	100		
65	31.8	11.5	51.5
83	13.8	0.0	32.7

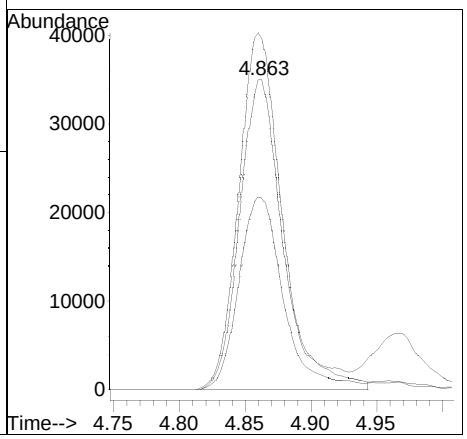


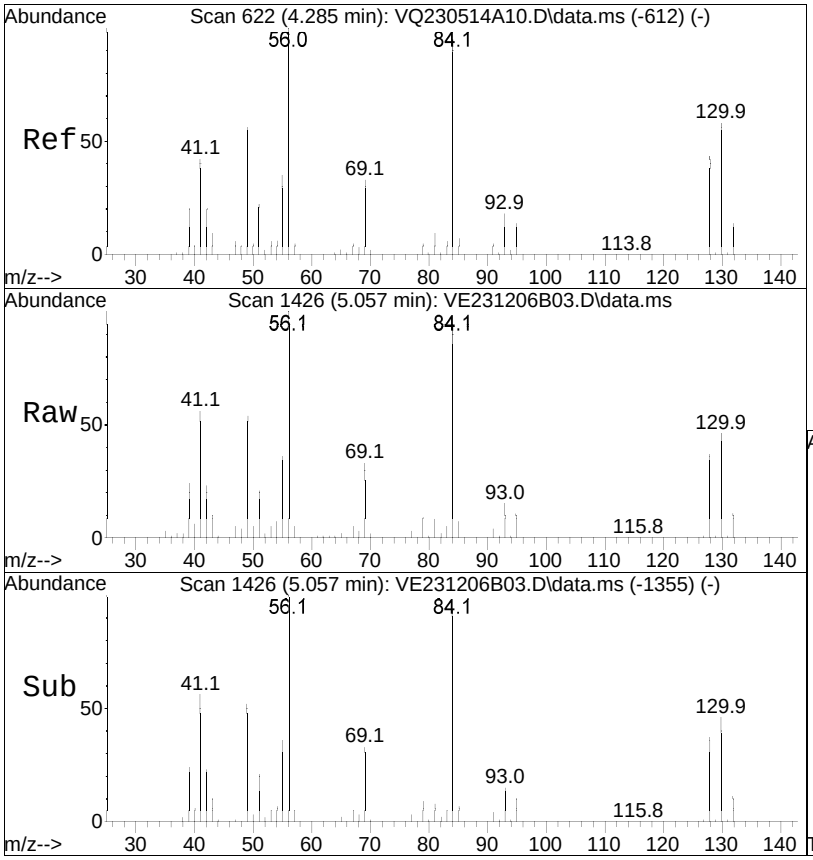


#30
cis-1,2-Dichloroethene
Concen: 11.52 ug/L
RT: 4.863 min Scan# 1356
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 96 Resp: 80425

Ion	Ratio	Lower	Upper
96	100		
61	115.0	115.3	172.9#
98	63.9	51.8	77.8

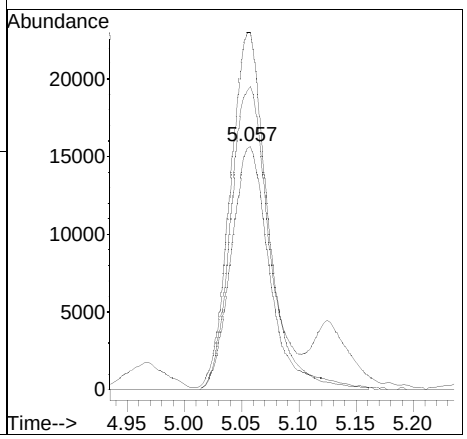


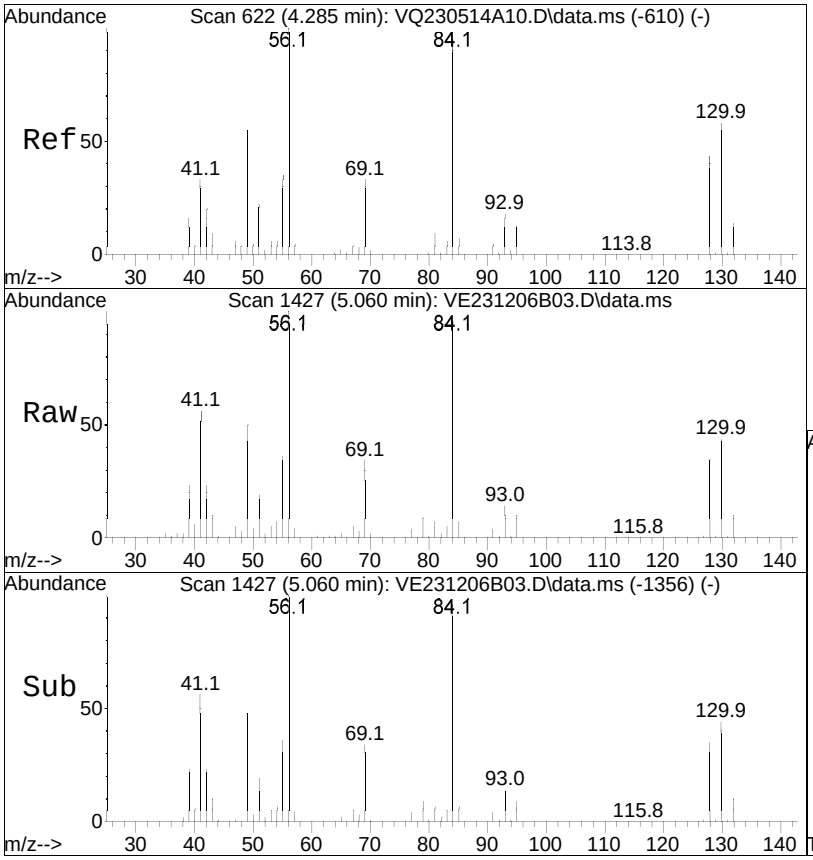


#33
Bromochloromethane
Concen: 12.16 ug/L
RT: 5.057 min Scan# 1426
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:128 Resp: 36893

Ion	Ratio	Lower	Upper
128	100		
49	137.9	143.3	214.9#
130	125.6	102.7	154.1

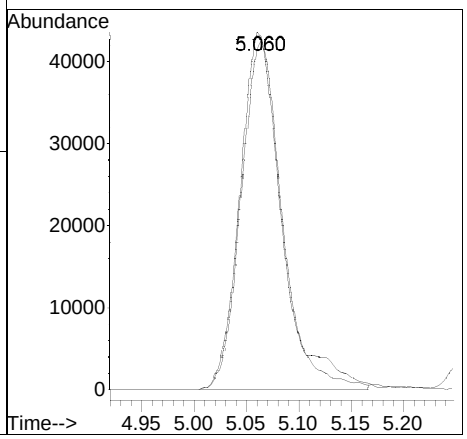


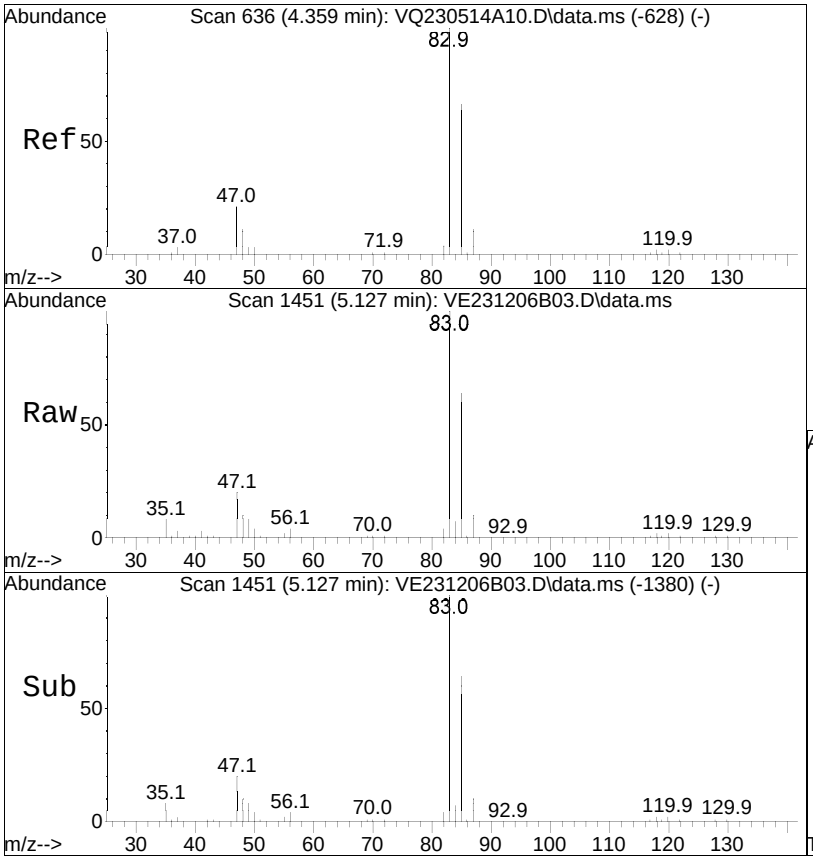


#34
Cyclohexane
Concen: 8.06 ug/L
RT: 5.060 min Scan# 1427
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 56 Resp: 119795

Ion	Ratio	Lower	Upper
56	100		
84	97.4	57.5	119.3

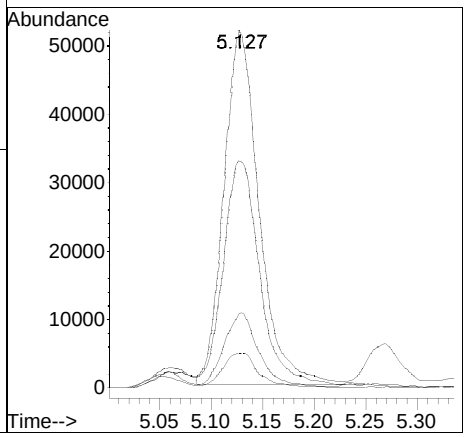


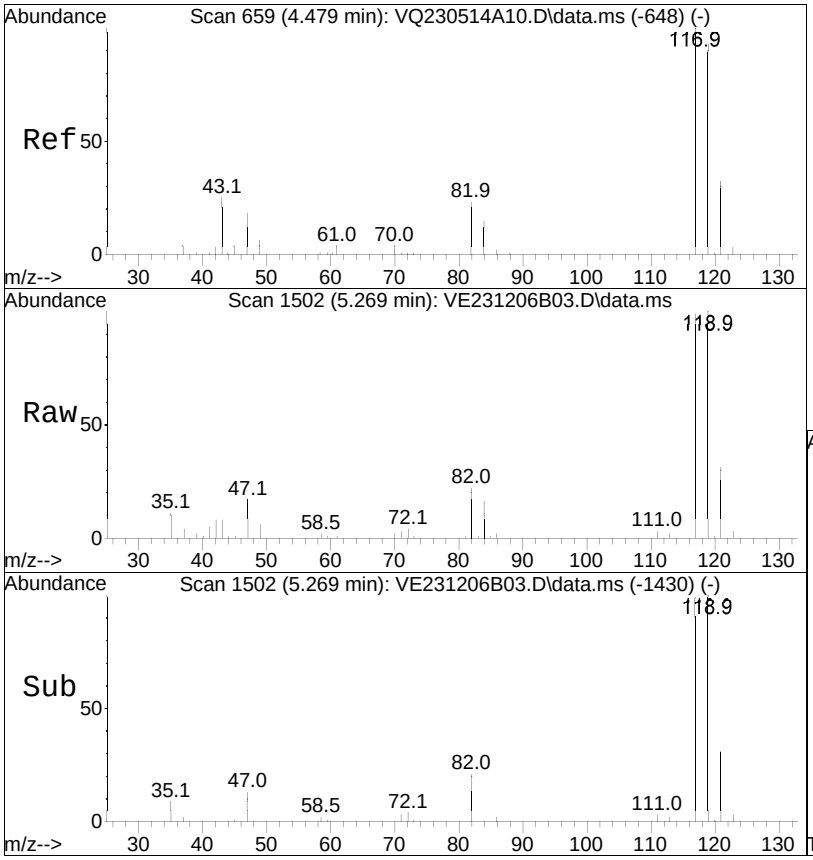


#35
Chloroform
Concen: 11.02 ug/L
RT: 5.127 min Scan# 1451
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 83 Resp: 121896

Ion	Ratio	Lower	Upper
83	100		
85	65.9	43.0	89.2
47	20.6	17.5	36.3
48	9.6	8.8	18.2

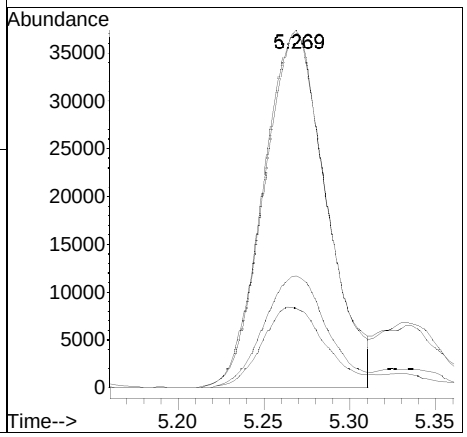


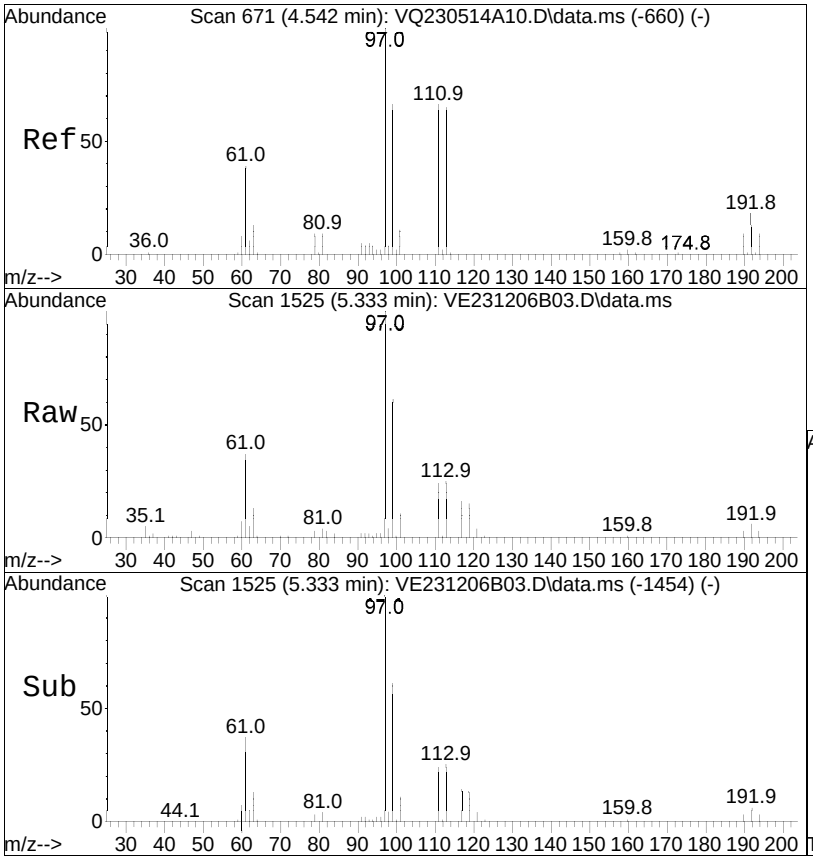


#37
Carbon tetrachloride
Concen: 11.44 ug/L
RT: 5.269 min Scan# 1502
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:117 Resp: 94817

Ion	Ratio	Lower	Upper
117	100		
119	98.3	63.2	131.2
121	31.8	20.3	42.3
82	23.7	18.1	37.7

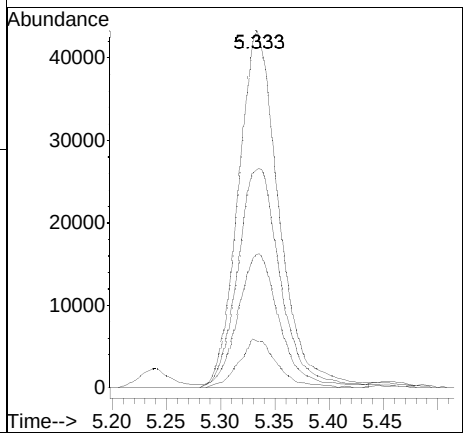


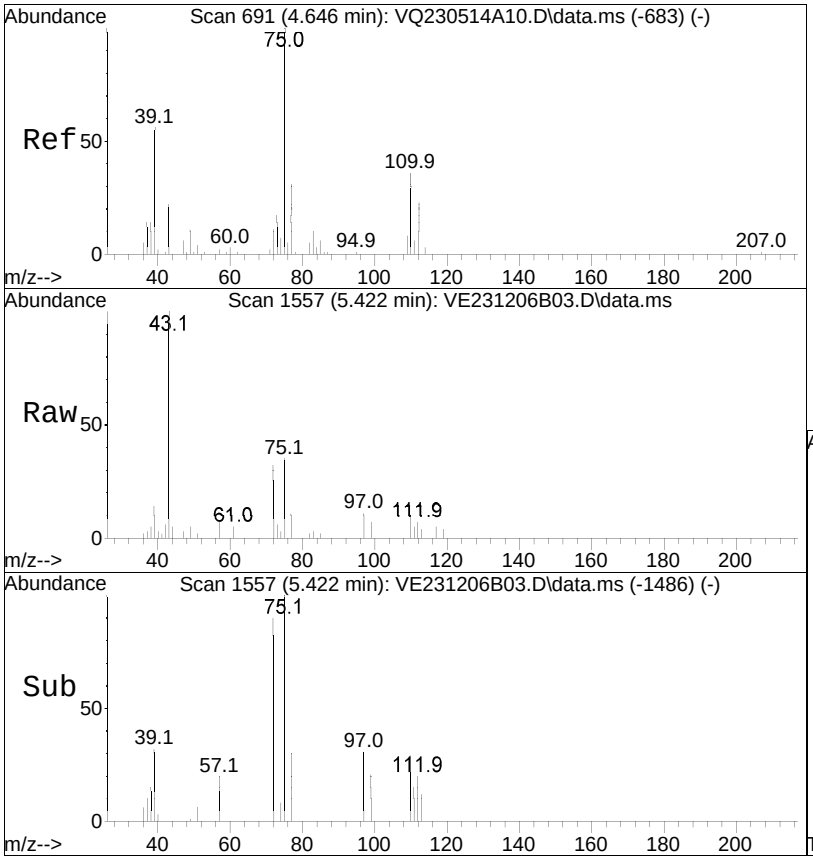


#40
1,1,1-Trichloroethane
Concen: 11.35 ug/L
RT: 5.333 min Scan# 1525
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 97 Resp: 112726

Ion	Ratio	Lower	Upper
97	100		
99	64.5	42.5	88.3
61	37.9	30.4	63.2
63	12.9	9.6	19.8

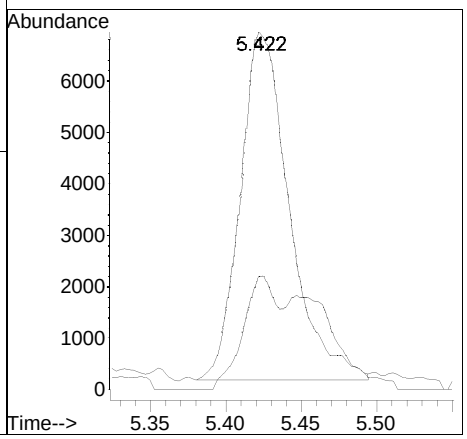


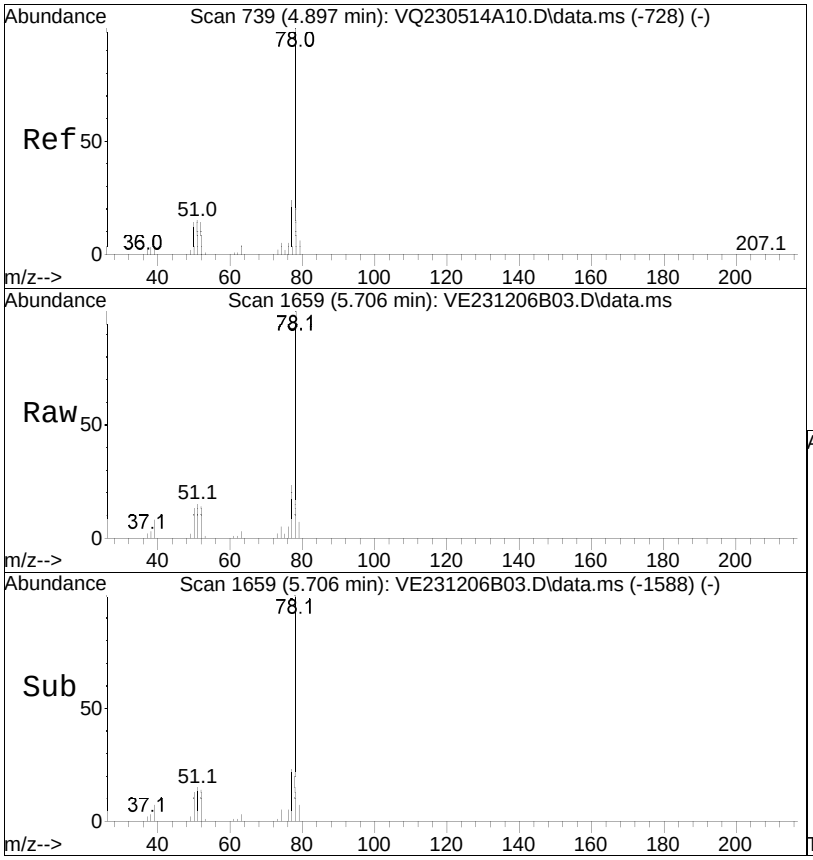


#42
2-Butanone
Concen: 6.61 ug/L
RT: 5.422 min Scan# 1557
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 43 Resp: 15347

Ion	Ratio	Lower	Upper
43	100		
72	22.1	31.2	46.8#

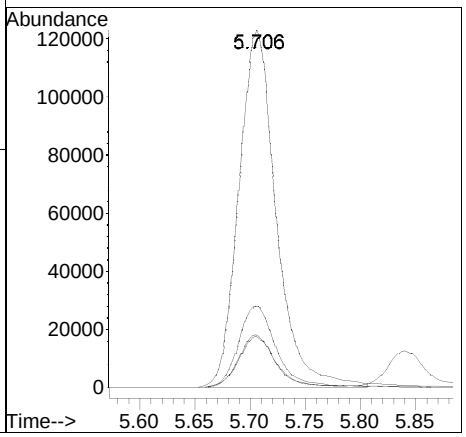


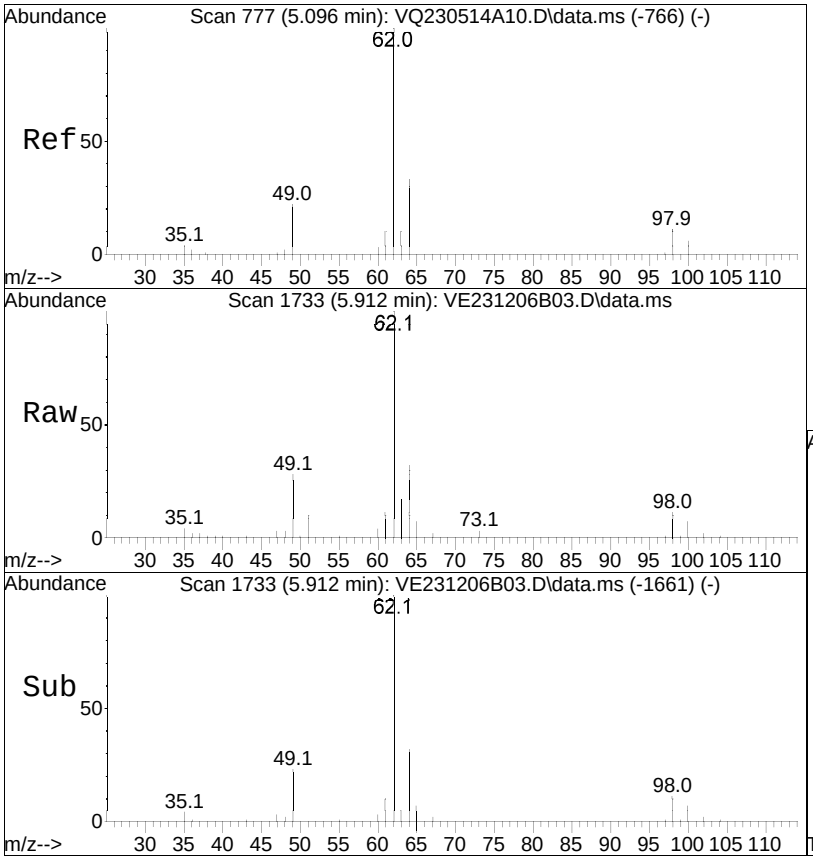


#45
Benzene
Concen: 11.13 ug/L
RT: 5.706 min Scan# 1659
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 78 Resp: 287136

Ion	Ratio	Lower	Upper
78	100		
77	23.0	15.9	33.1
51	14.9	12.3	25.5
52	14.4	11.3	23.5

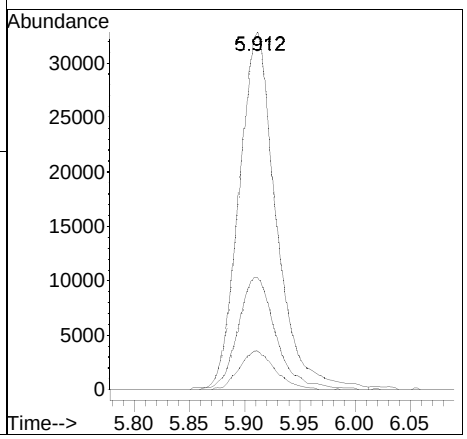


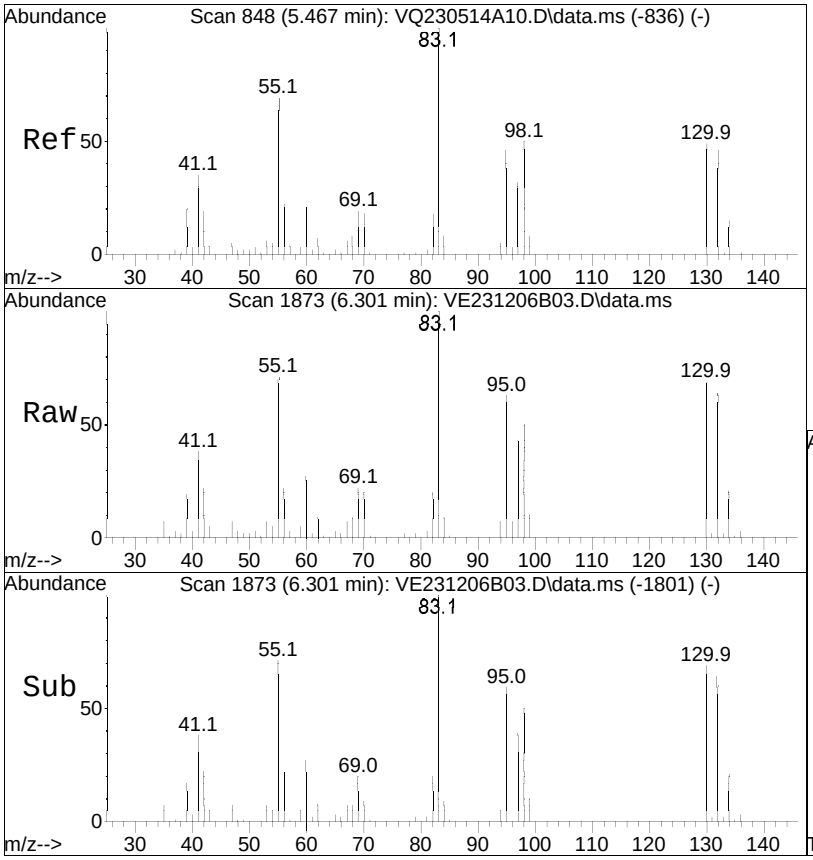


#48
1,2-Dichloroethane
Concen: 8.93 ug/L
RT: 5.912 min Scan# 1733
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 62 Resp: 76311

Ion	Ratio	Lower	Upper
62	100		
64	32.3	12.6	52.6
98	10.7	0.0	28.2

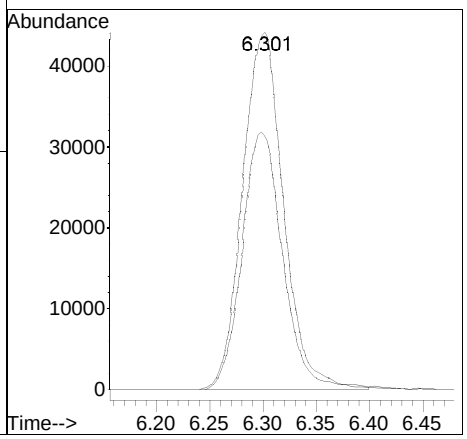


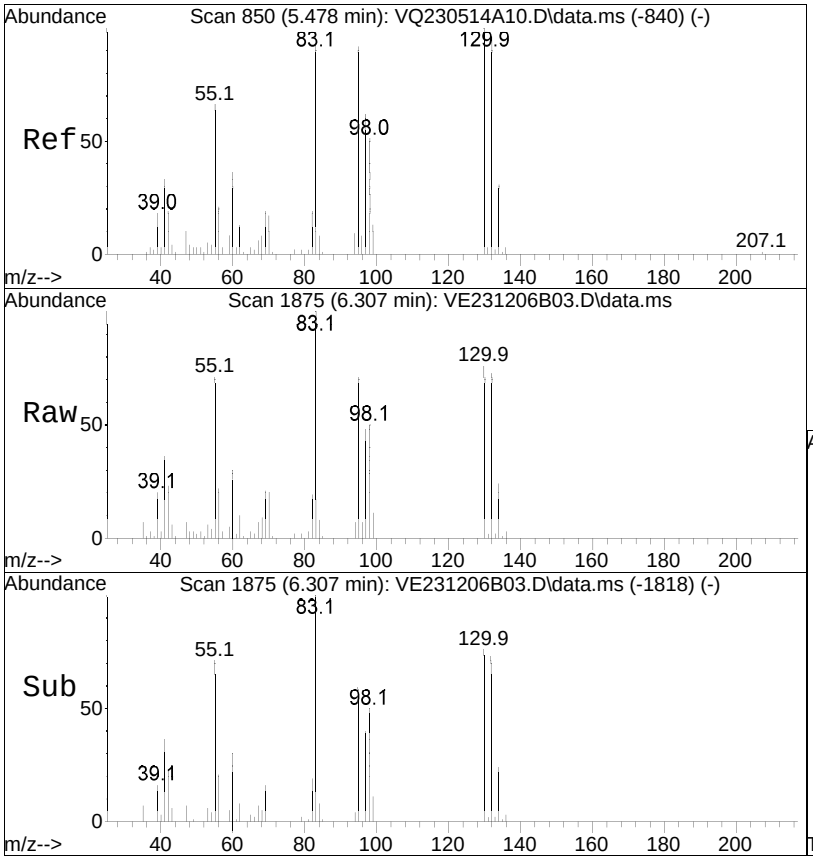


#51
Methyl cyclohexane
Concen: 10.41 ug/L
RT: 6.301 min Scan# 1873
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 83 Resp: 117919

Ion	Ratio	Lower	Upper
83	100		
55	71.6	65.0	97.6

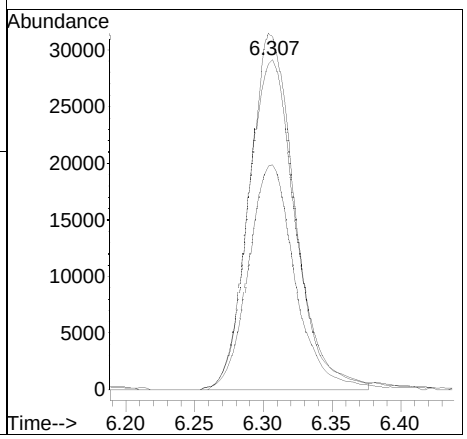


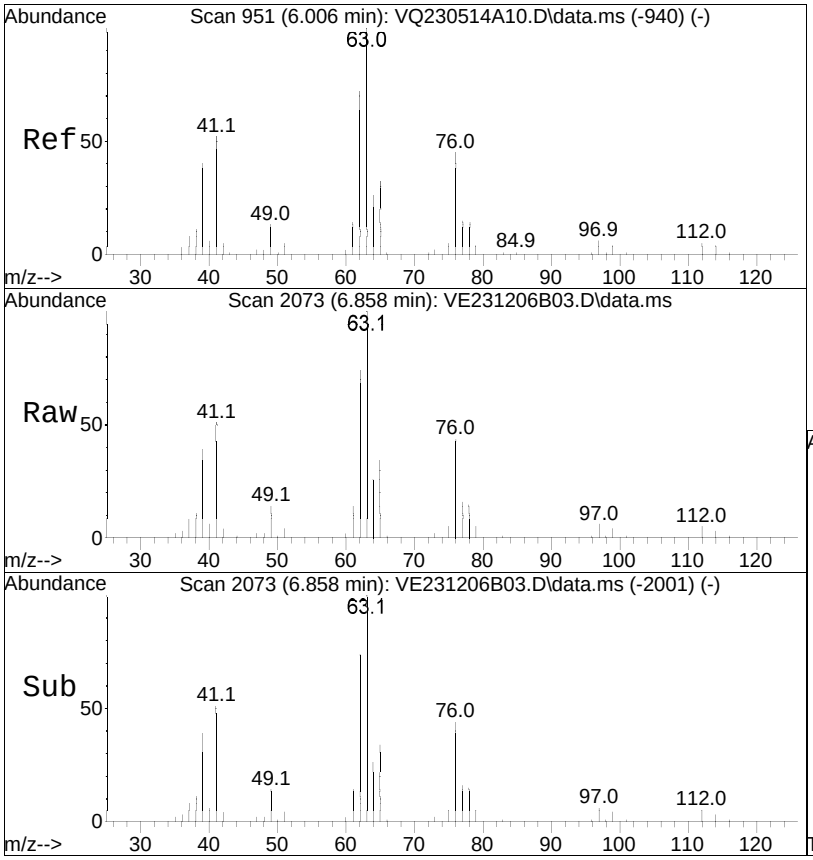


#52
Trichloroethene
Concen: 10.54 ug/L
RT: 6.307 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 95 Resp: 69196

Ion	Ratio	Lower	Upper
95	100		
97	68.0	54.2	81.4
130	105.8	81.8	122.6

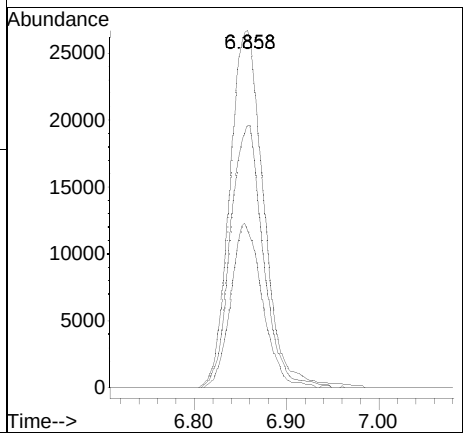


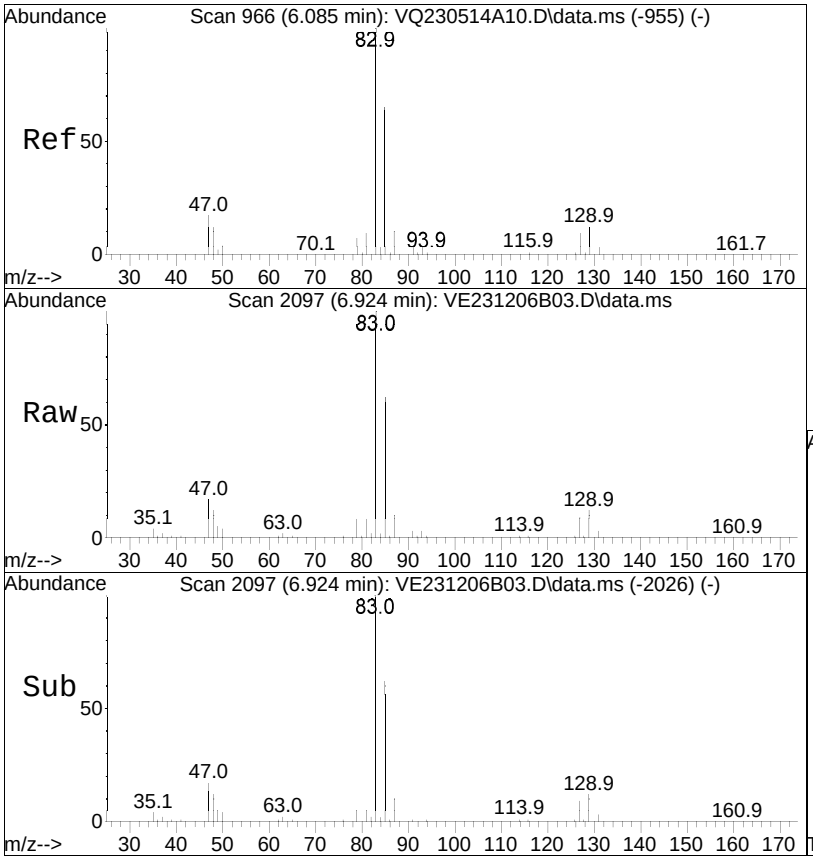


#55
1,2-Dichloropropane
Concen: 9.13 ug/L
RT: 6.858 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 63 Resp: 68099

Ion	Ratio	Lower	Upper
63	100		
62	71.0	57.6	86.4
76	42.8	38.5	57.7

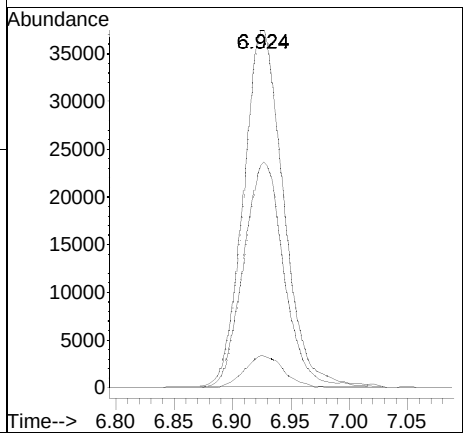


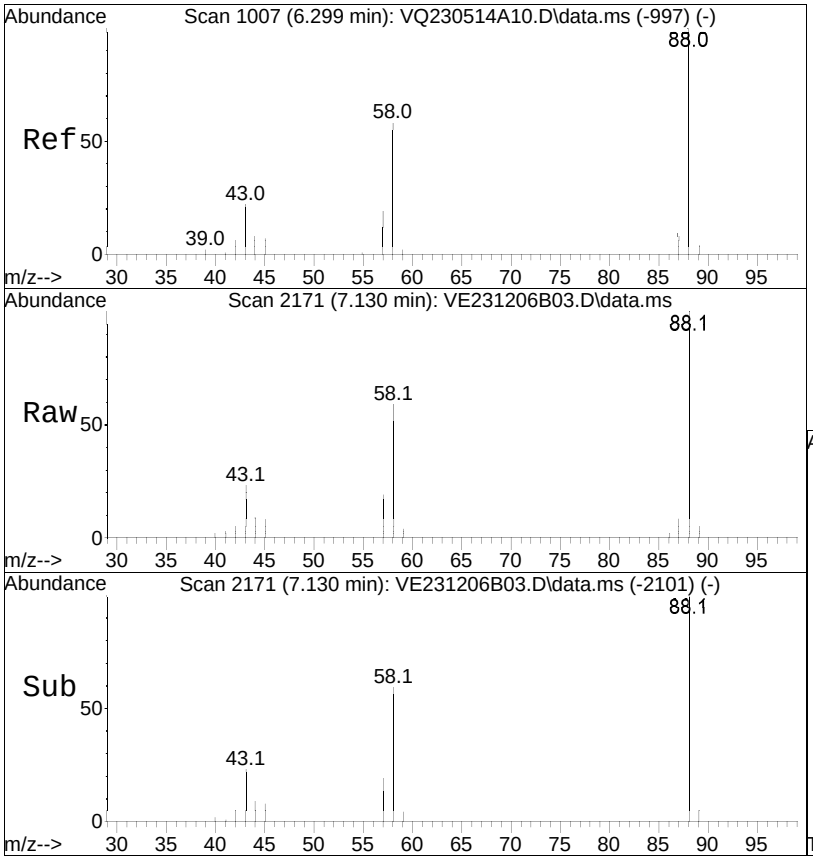


#58
Bromodichloromethane
Concen: 10.55 ug/L
RT: 6.924 min Scan# 2097
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 83 Resp: 87546

Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.4	77.2
127	9.0	6.9	10.3

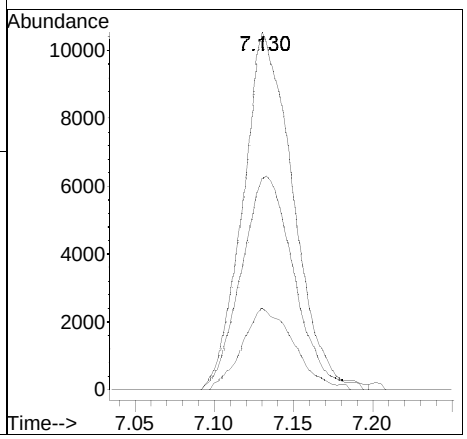


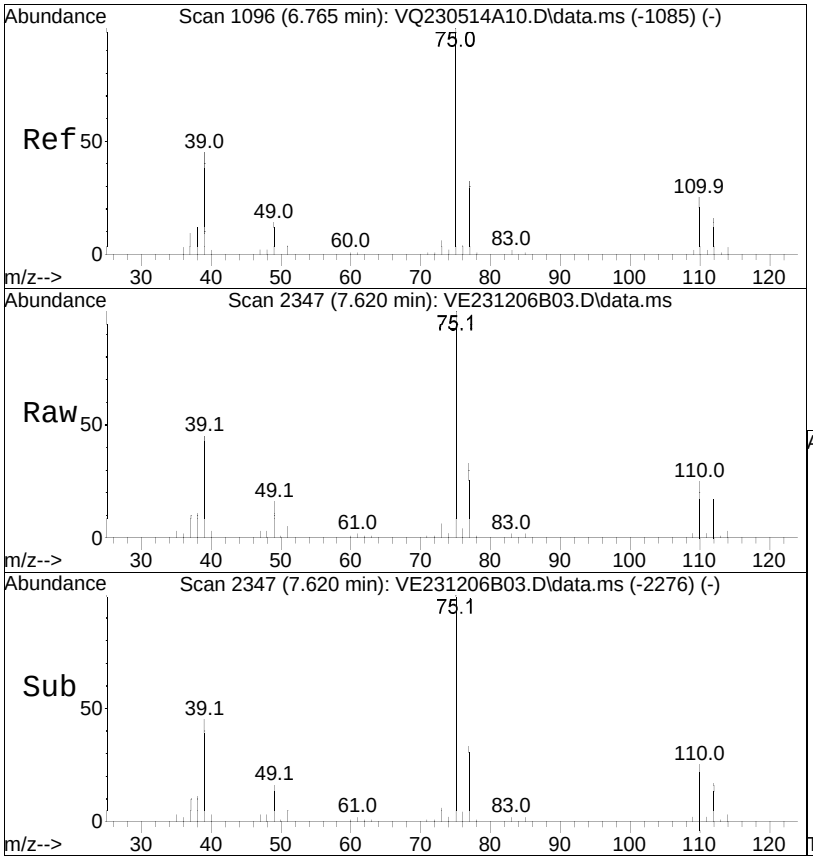


#61
1,4-Dioxane
Concen: 598.26 ug/L
RT: 7.130 min Scan# 2171
Delta R.T. -0.006 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 88 Resp: 23056

Ion	Ratio	Lower	Upper
88	100		
58	63.0	59.1	88.7
43	23.8	30.0	45.0#

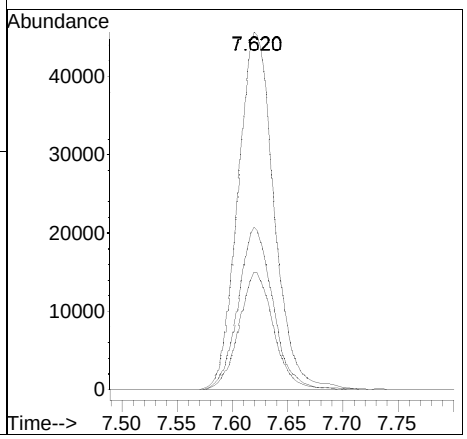


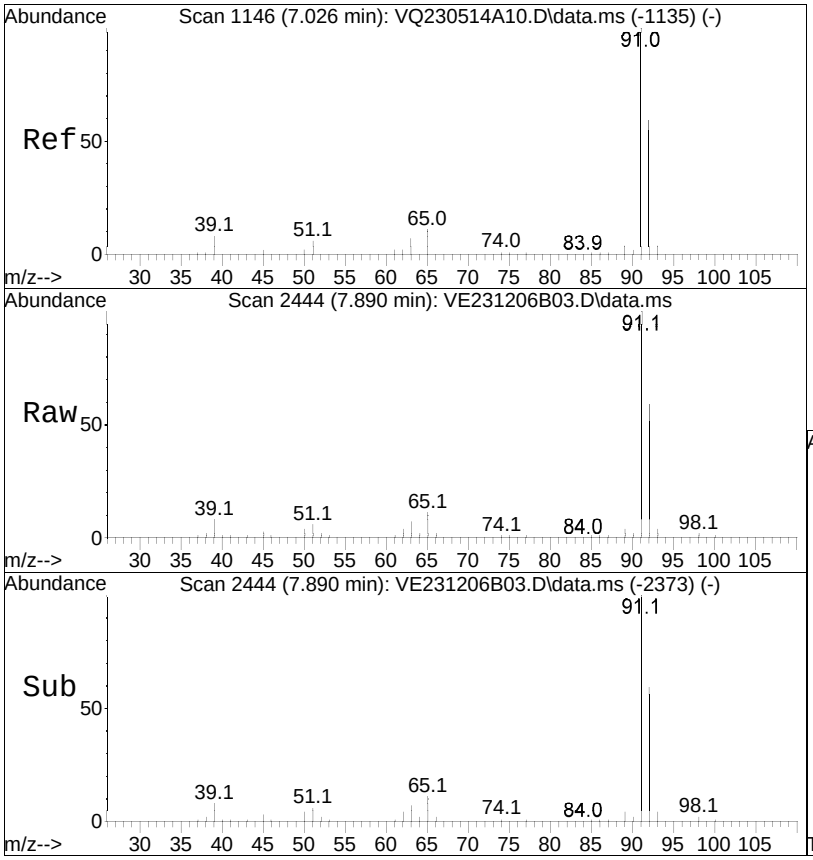


#62
cis-1,3-Dichloropropene
Concen: 10.47 ug/L
RT: 7.620 min Scan# 2347
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 75 Resp: 103154

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.0	37.6
39	43.9	50.6	75.8#

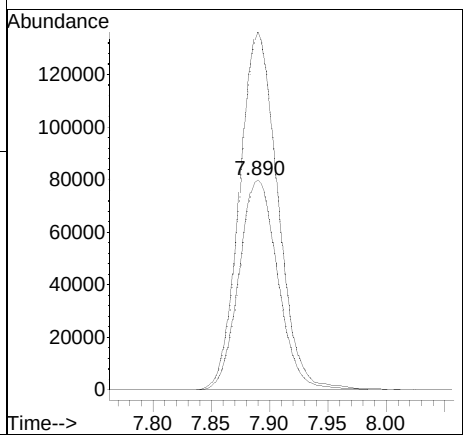


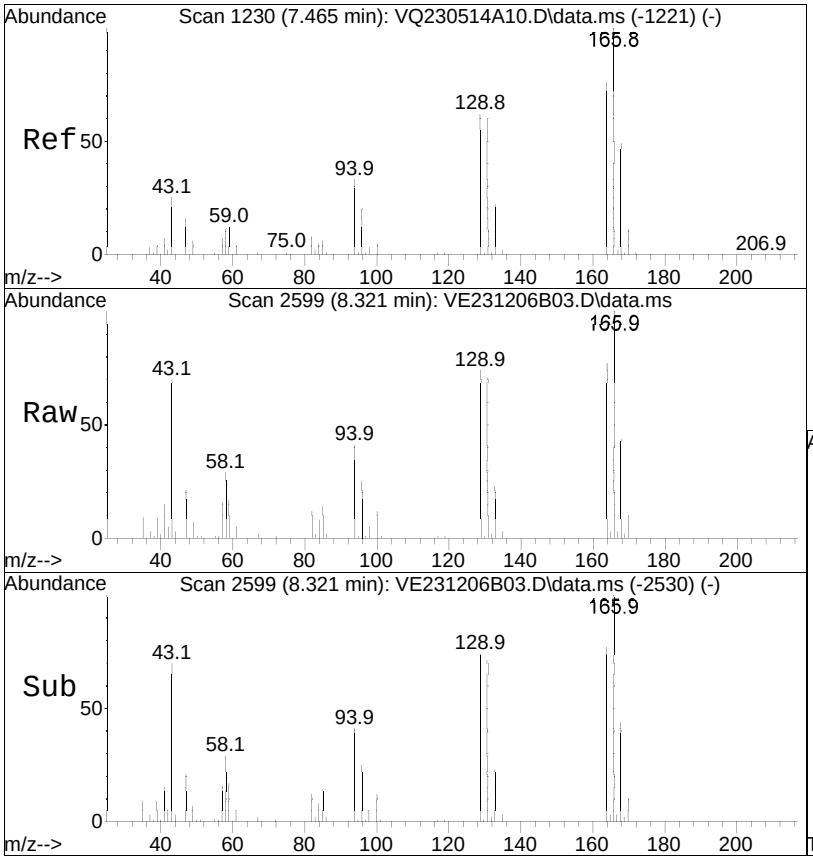


#65
Toluene
Concen: 10.85 ug/L
RT: 7.890 min Scan# 2444
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 92 Resp: 182935

Ion	Ratio	Lower	Upper
92	100		
91	168.0	135.9	203.9

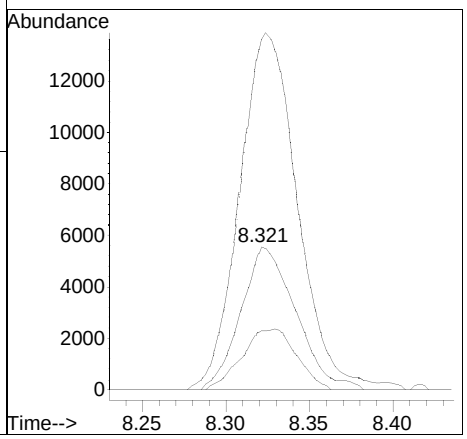


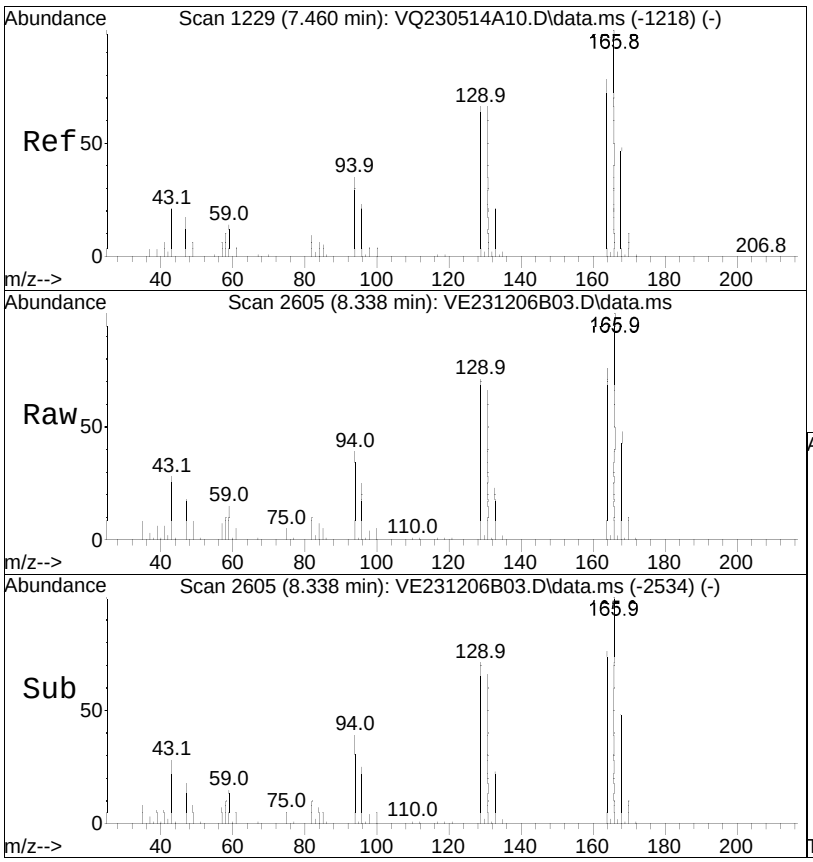


#66
4-Methyl-2-pentanone
Concen: 6.64 ug/L
RT: 8.321 min Scan# 2599
Delta R.T. -0.008 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 58 Resp: 12684

Ion	Ratio	Lower	Upper
58	100		
100	42.3	30.1	45.1
43	262.2	226.7	340.1

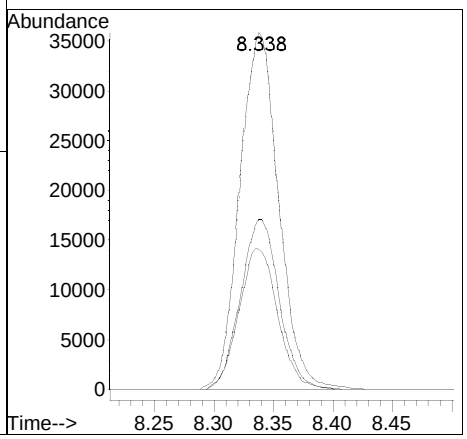


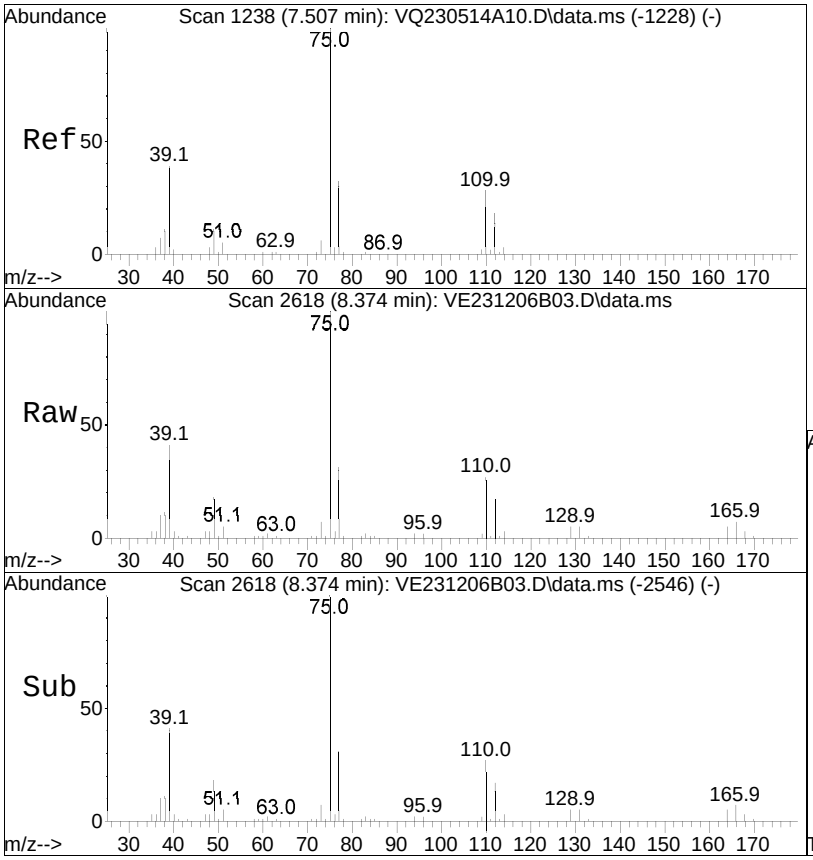


#67
Tetrachloroethene
Concen: 10.78 ug/L
RT: 8.338 min Scan# 2605
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:166 Resp: 81542

Ion	Ratio	Lower	Upper
166	100		
168	47.7	28.0	68.0
94	39.7	27.8	67.8

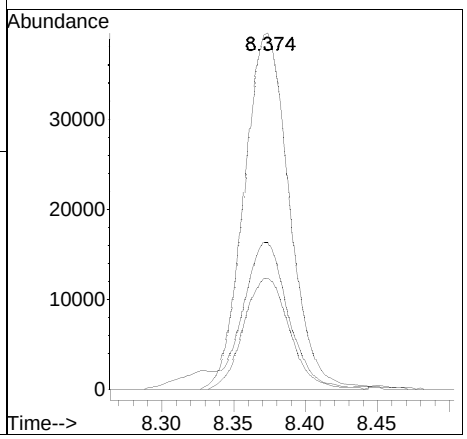


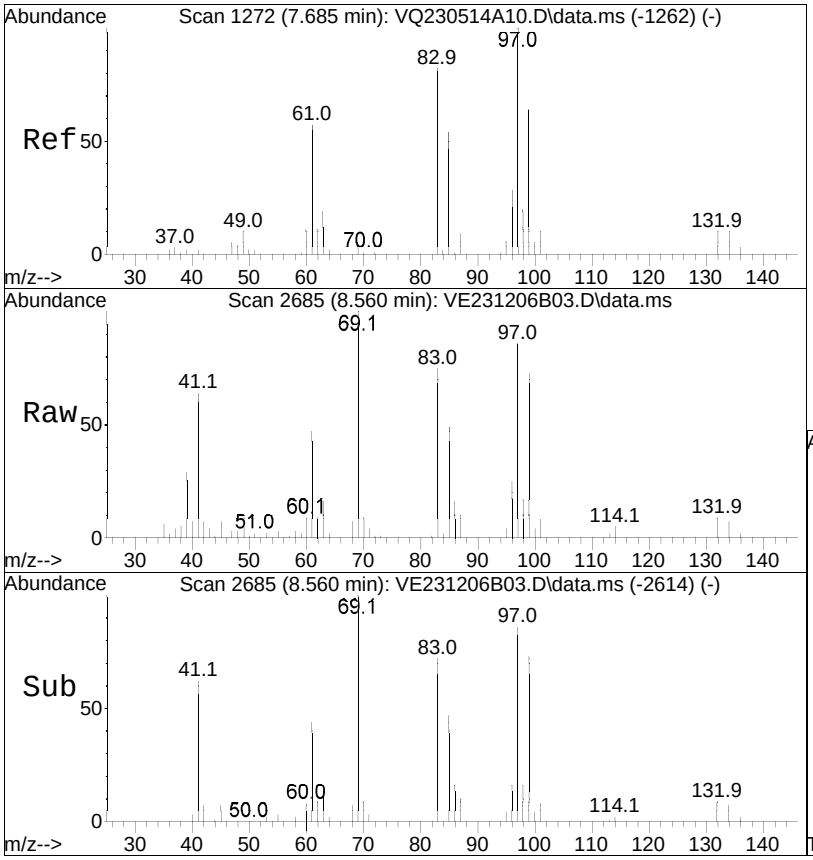


#69
trans-1,3-Dichloropropene
Concen: 10.07 ug/L
RT: 8.374 min Scan# 2618
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 75 Resp: 85898

Ion	Ratio	Lower	Upper
75	100		
77	31.9	11.4	51.4
39	40.3	44.3	84.3#

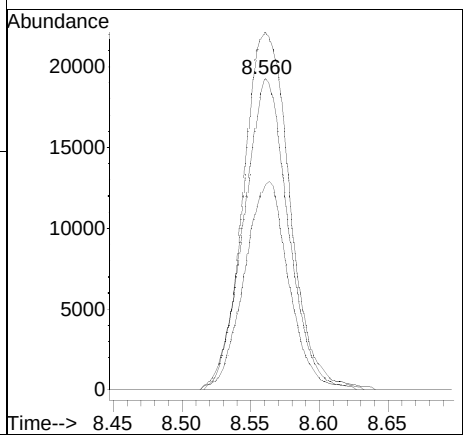


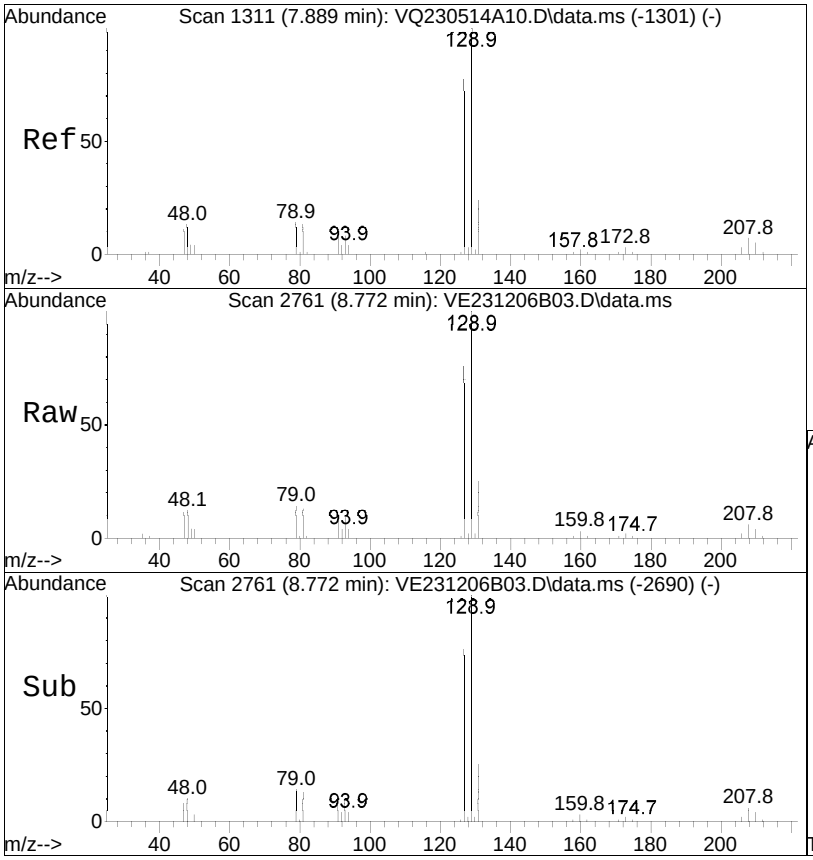


#72
1,1,2-Trichloroethane
Concen: 10.07 ug/L
RT: 8.560 min Scan# 2685
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 83 Resp: 43162

Ion	Ratio	Lower	Upper
83	100		
97	120.8	99.2	139.2
85	67.0	48.7	88.7

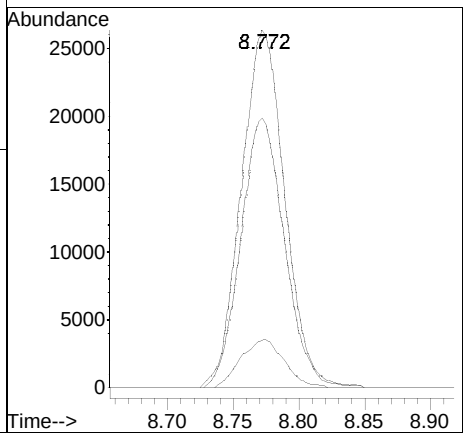


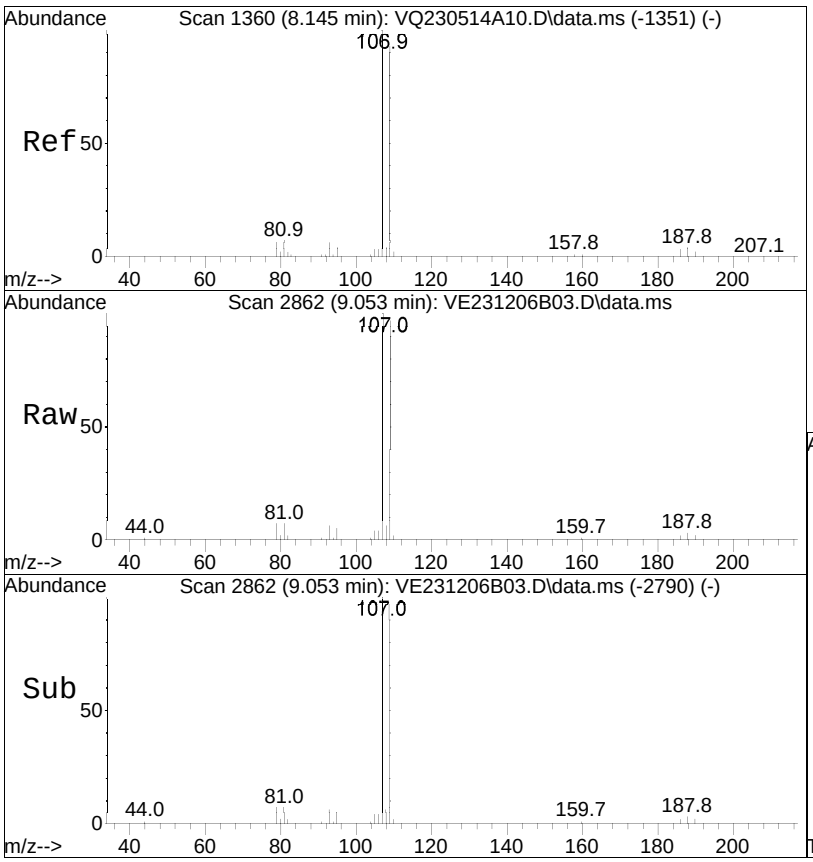


#73
Chlorodibromomethane
Concen: 9.95 ug/L
RT: 8.772 min Scan# 2761
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:129 Resp: 60171

Ion	Ratio	Lower	Upper
129	100		
81	13.7	0.0	36.2
127	75.5	58.0	98.0

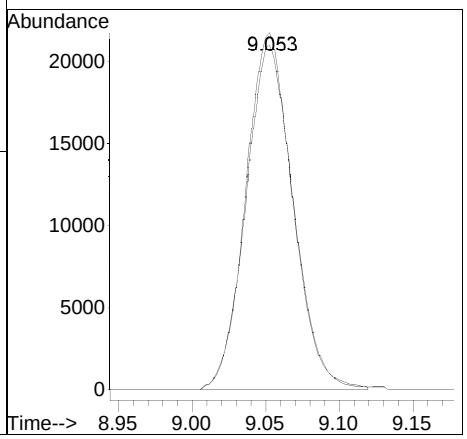


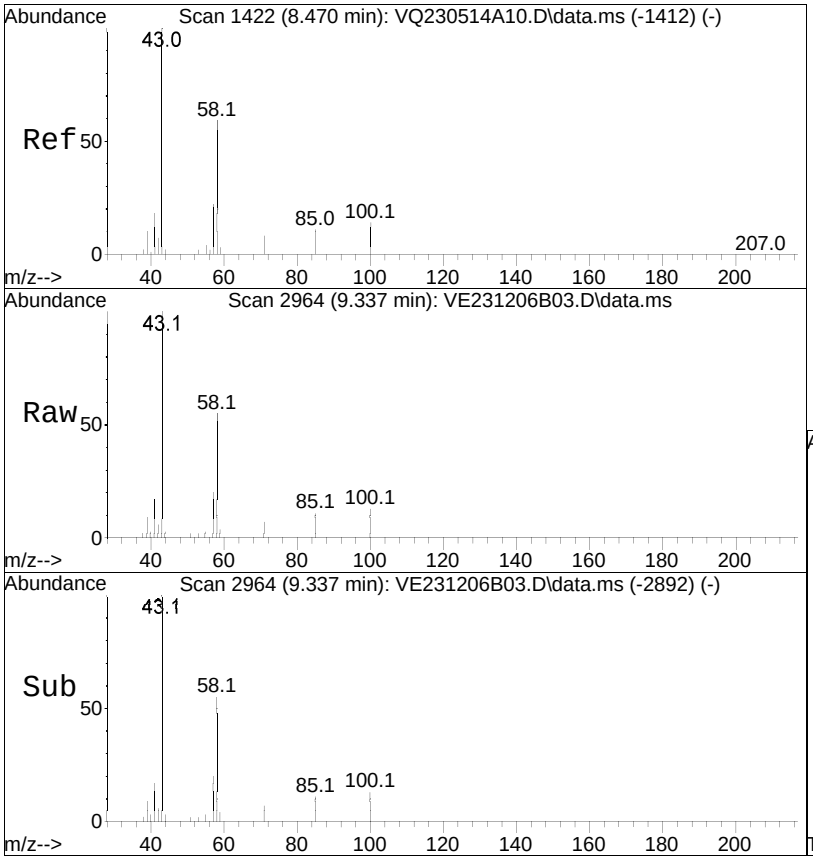


#75
1,2-Dibromoethane
Concen: 9.81 ug/L
RT: 9.053 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:107 Resp: 48352

Ion	Ratio	Lower	Upper
107	100		
109	96.8	75.7	113.5

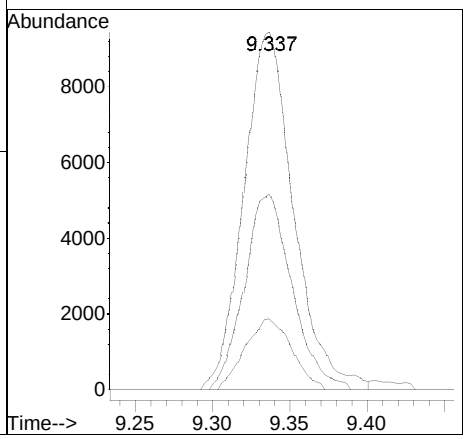


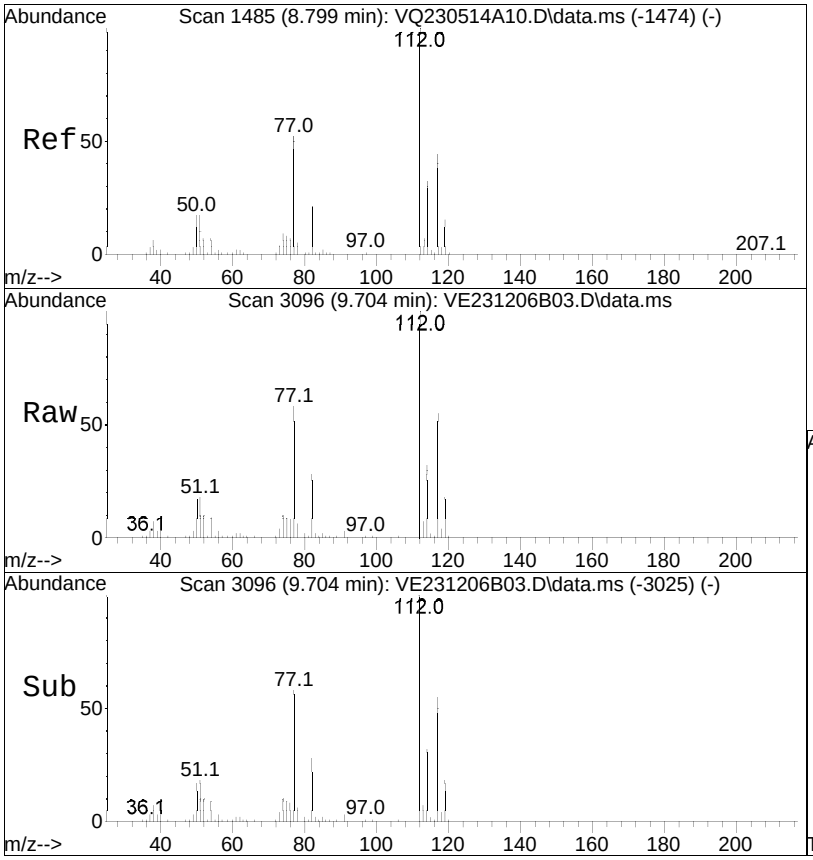


#77
2-Hexanone
Concen: 6.22 ug/L
RT: 9.337 min Scan# 2964
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 43 Resp: 21141

Ion	Ratio	Lower	Upper
43	100		
58	52.4	38.2	57.4
57	18.6	14.1	21.1

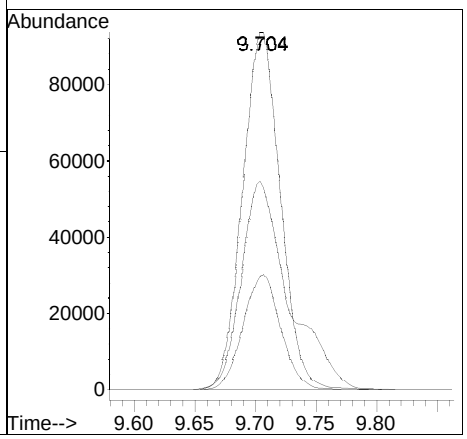


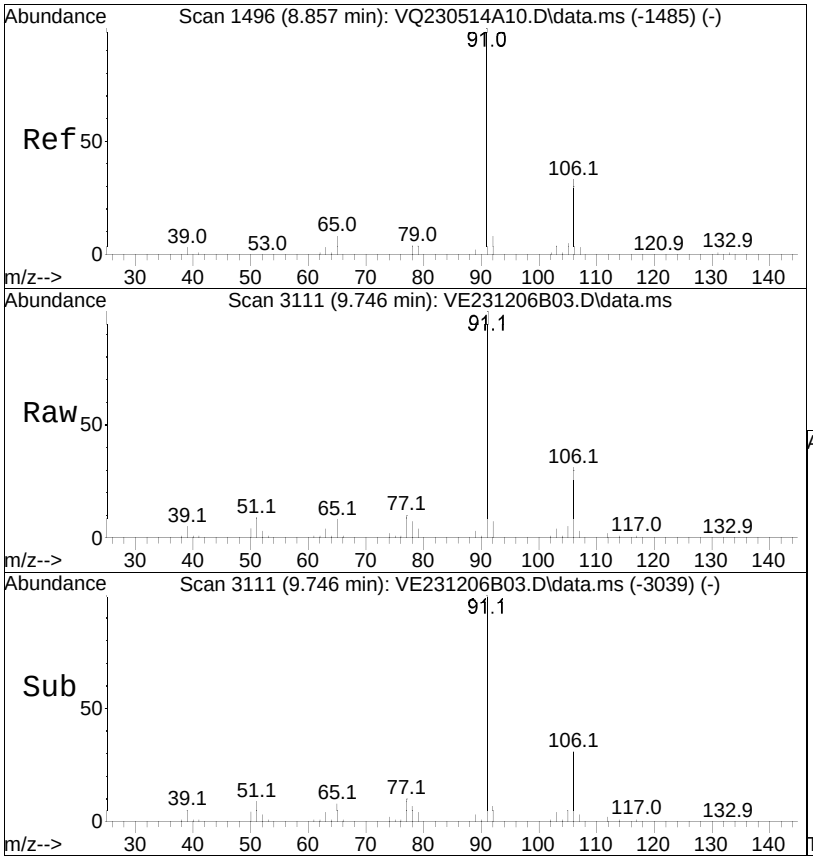


#78
Chlorobenzene
Concen: 10.97 ug/L
RT: 9.704 min Scan# 3096
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:112 Resp: 202398

Ion	Ratio	Lower	Upper
112	100		
77	73.2	50.7	76.1
114	32.3	25.6	38.4

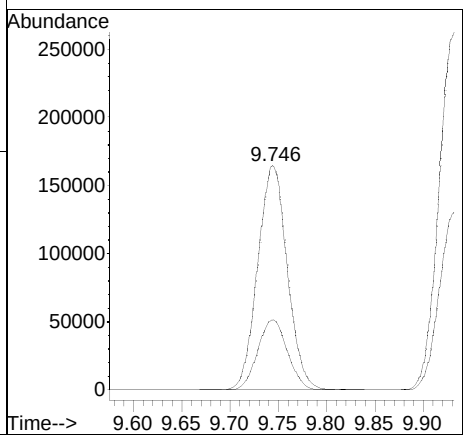


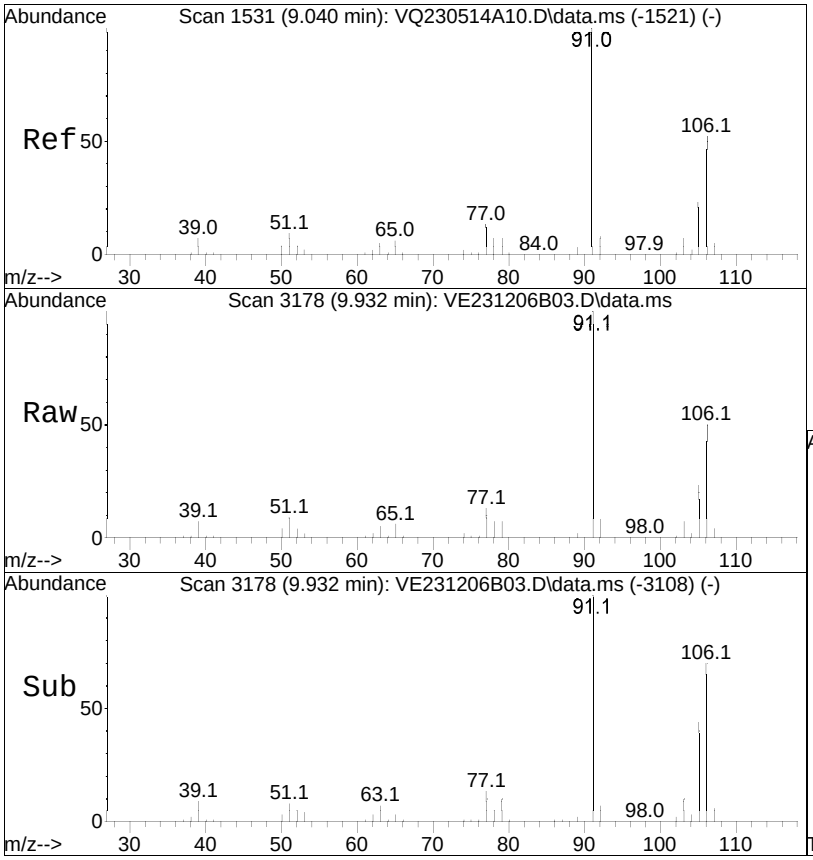


#79
Ethylbenzene
Concen: 10.90 ug/L
RT: 9.746 min Scan# 3111
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 91 Resp: 352566

Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.6	36.8

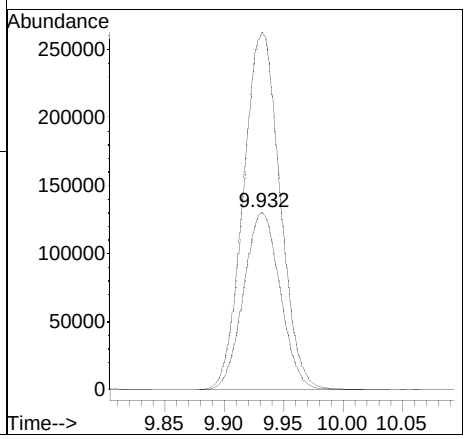


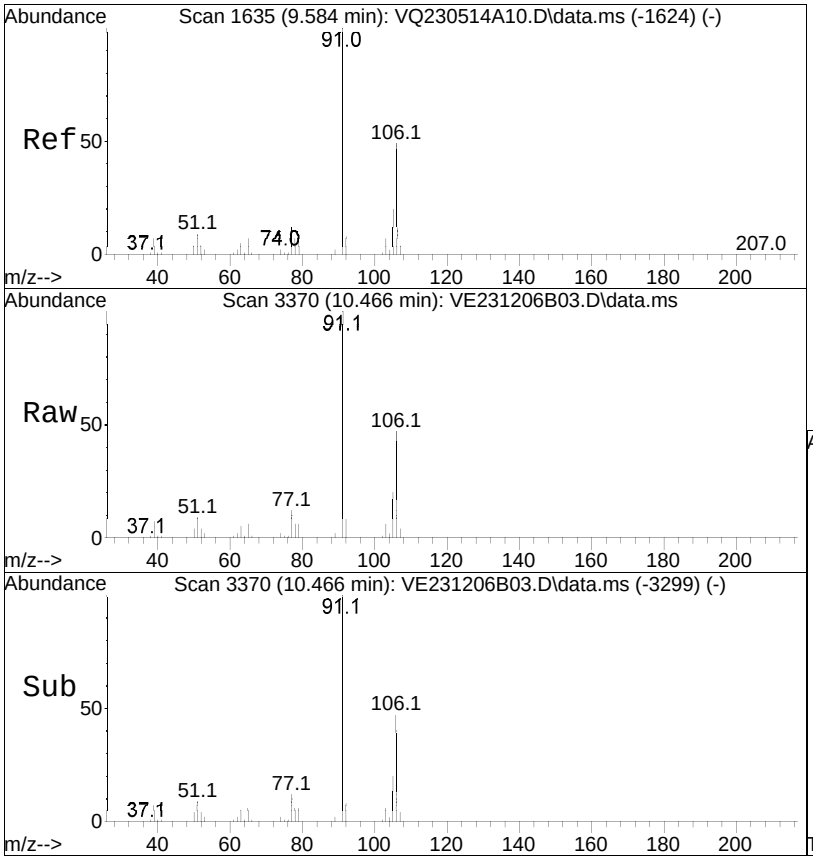


#81
p/m Xylene
Concen: 22.43 ug/L
RT: 9.932 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:106 Resp: 277410

Ion	Ratio	Lower	Upper
106	100		
91	201.2	165.5	248.3

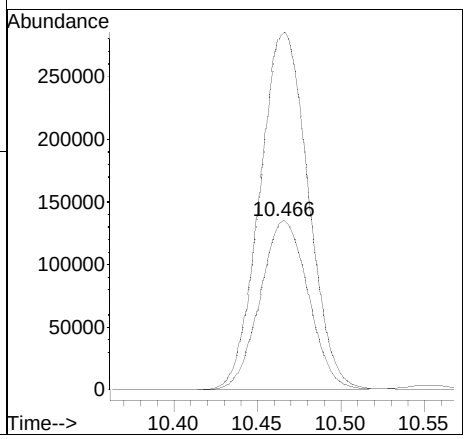


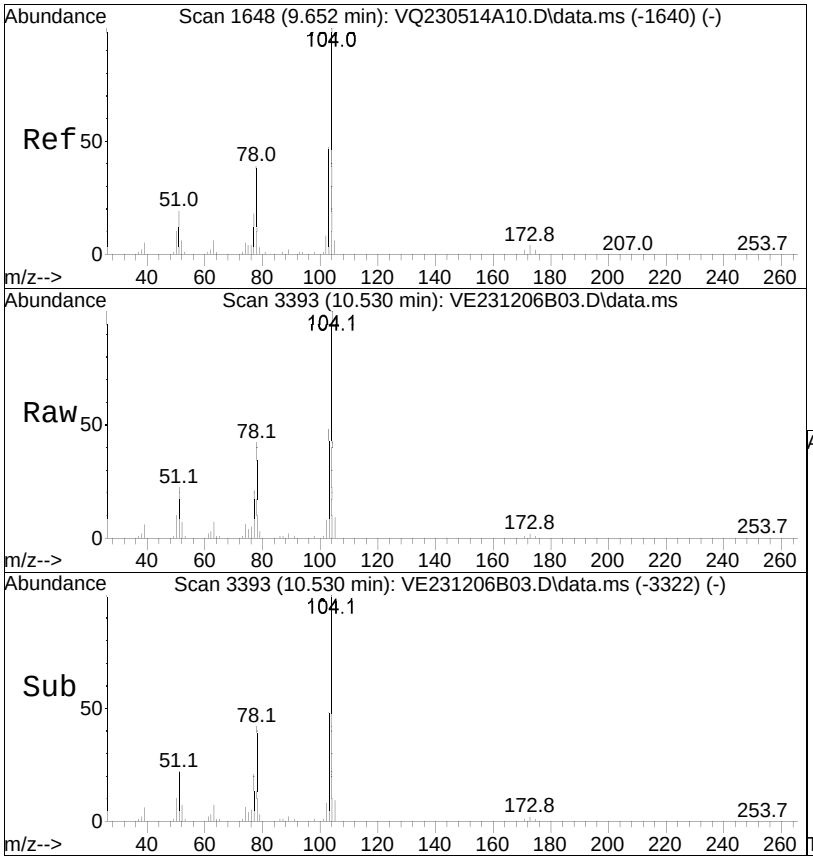


#82
o Xylene
Concen: 22.63 ug/L
RT: 10.466 min Scan# 3370
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:106 Resp: 269992

Ion	Ratio	Lower	Upper
106	100		
91	212.0	176.5	264.7

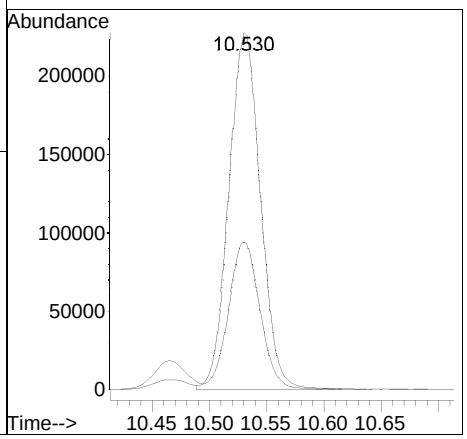


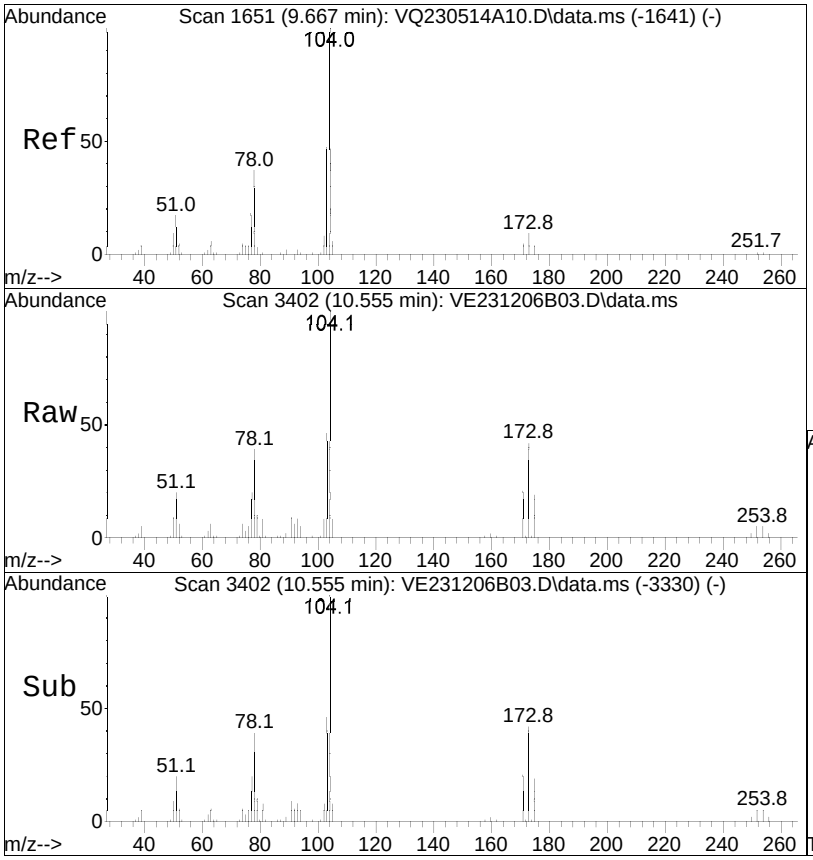


#83
Styrene
Concen: 22.94 ug/L
RT: 10.530 min Scan# 3393
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:104 Resp: 433781

Ion	Ratio	Lower	Upper
104	100		
78	41.1	37.5	56.3

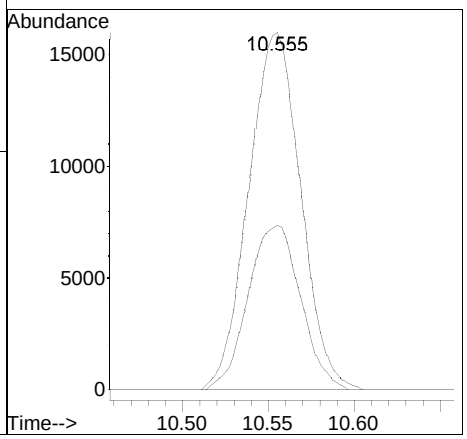


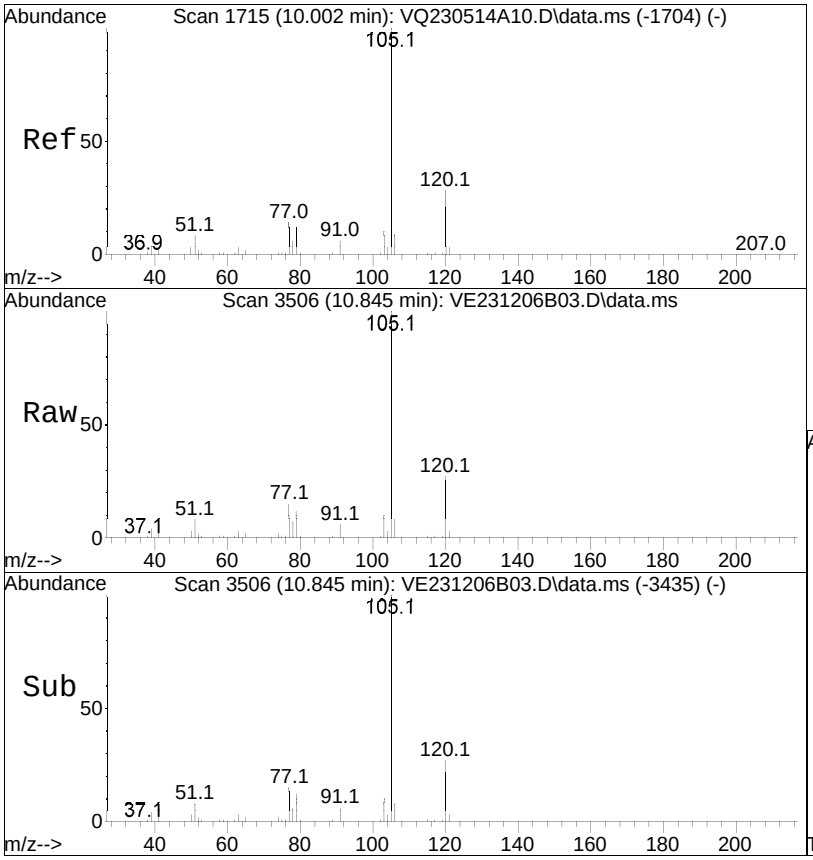


#85
Bromoform
Concen: 9.25 ug/L
RT: 10.555 min Scan# 3402
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:173 Resp: 33607

Ion	Ratio	Lower	Upper
173	100		
175	46.5	29.0	69.0

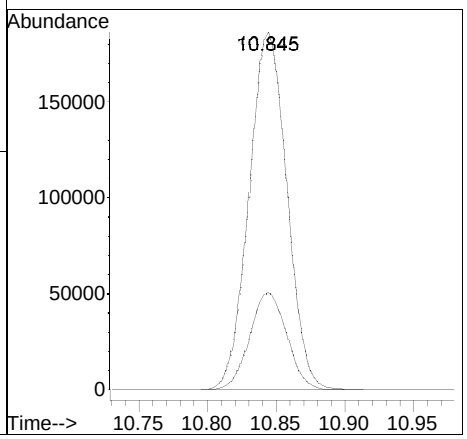


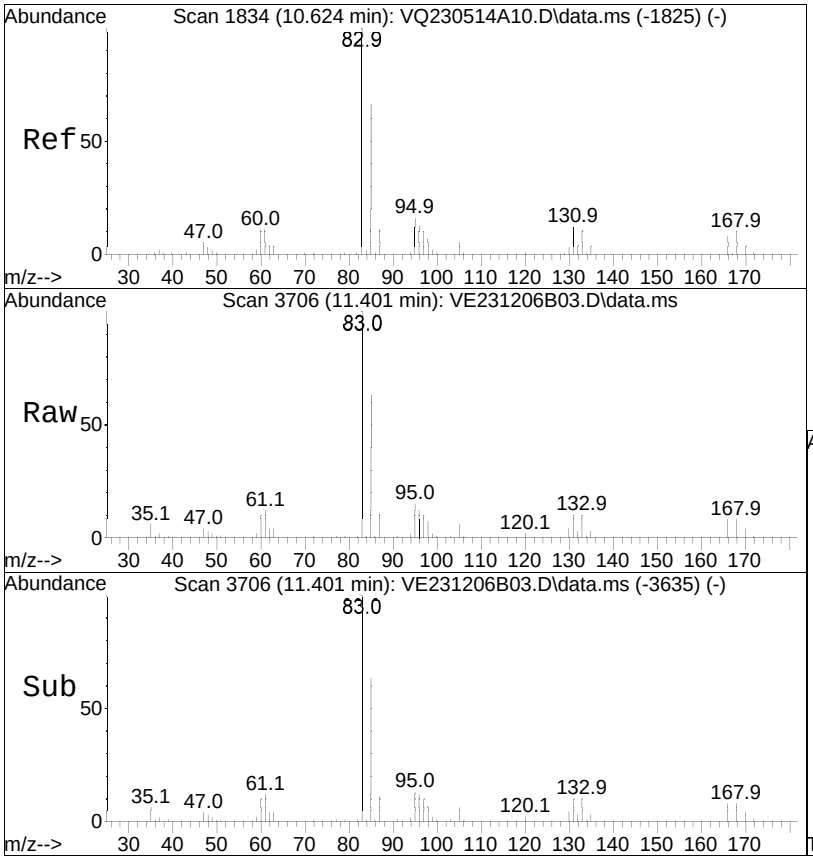


#87
Isopropylbenzene
Concen: 10.48 ug/L
RT: 10.845 min Scan# 3506
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:105 Resp: 353024

Ion	Ratio	Lower	Upper
105	100		
120	26.9	6.5	46.5

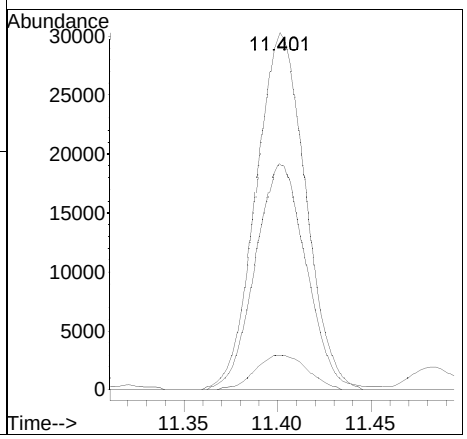


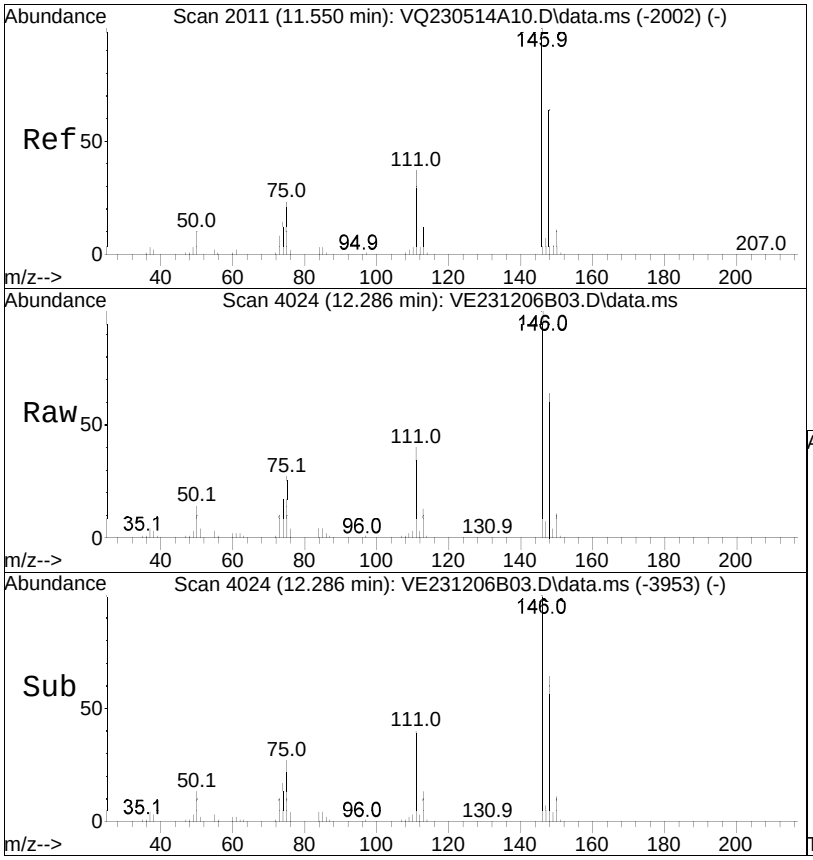


#92
1,1,2,2-Tetrachloroethane
Concen: 10.39 ug/L
RT: 11.401 min Scan# 3706
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion: 83 Resp: 55553

Ion	Ratio	Lower	Upper
83	100		
131	10.3	0.0	31.0
85	65.2	45.4	85.4

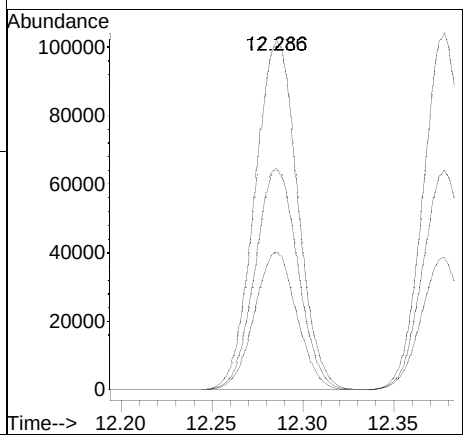


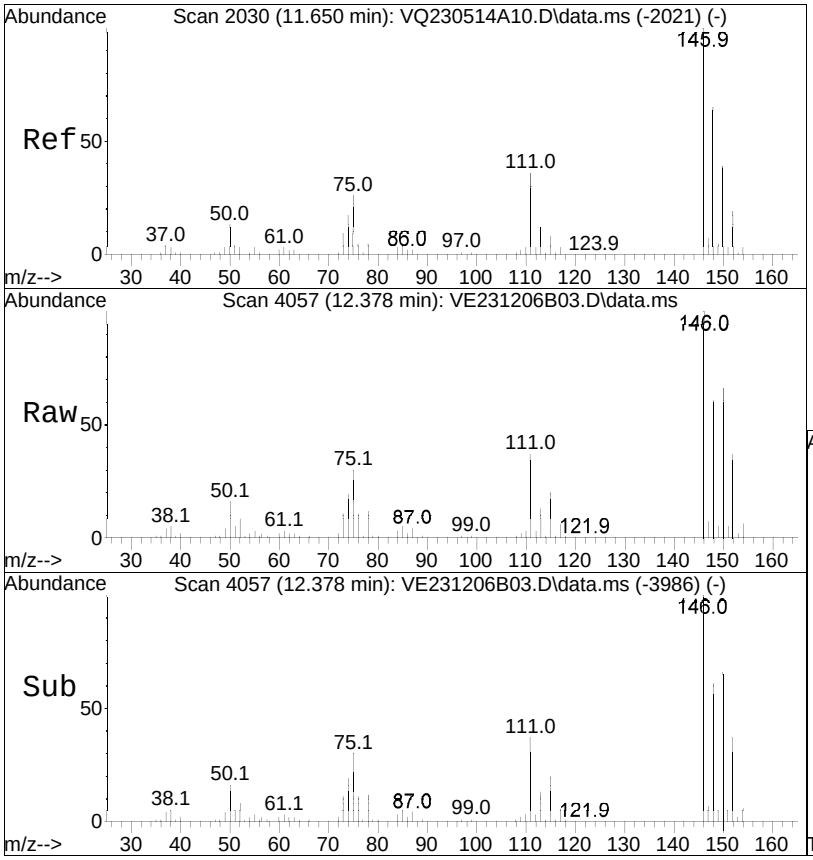


#105
1,3-Dichlorobenzene
Concen: 10.53 ug/L
RT: 12.286 min Scan# 4024
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:146 Resp: 167535

Ion	Ratio	Lower	Upper
146	100		
111	38.8	27.0	56.0
148	63.0	41.2	85.6

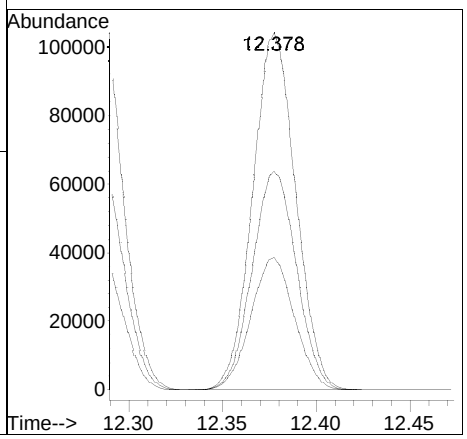


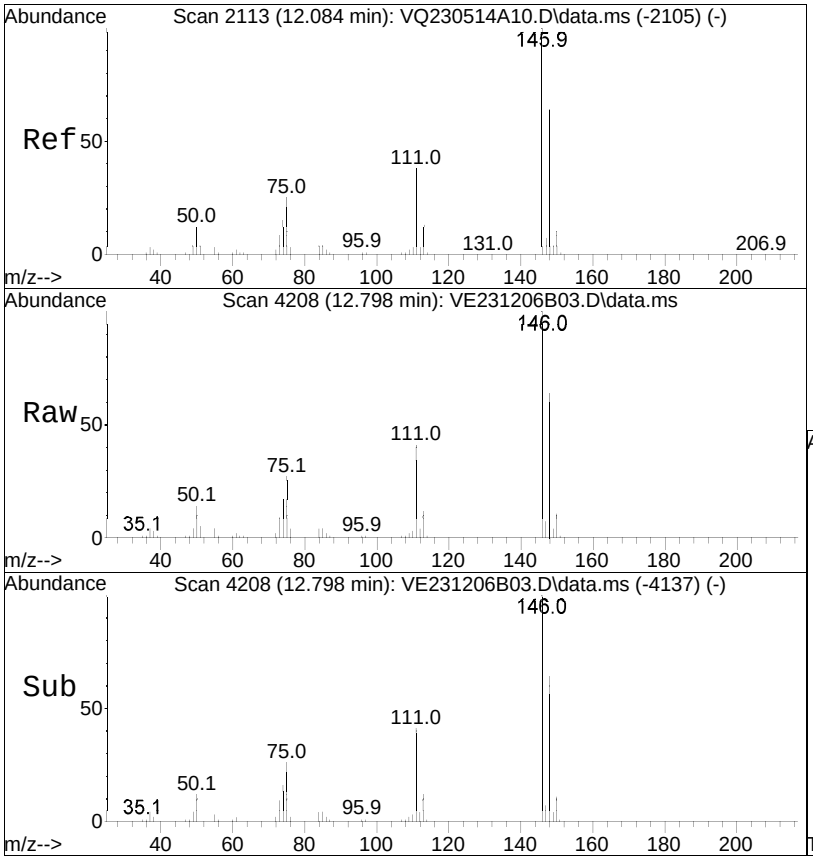


#106
1,4-Dichlorobenzene
Concen: 10.46 ug/L
RT: 12.378 min Scan# 4057
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:146 Resp: 166588

Ion	Ratio	Lower	Upper
146	100		
111	37.8	32.3	48.5
148	63.0	51.0	76.6

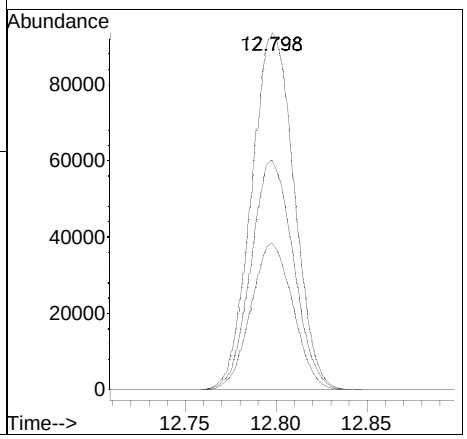


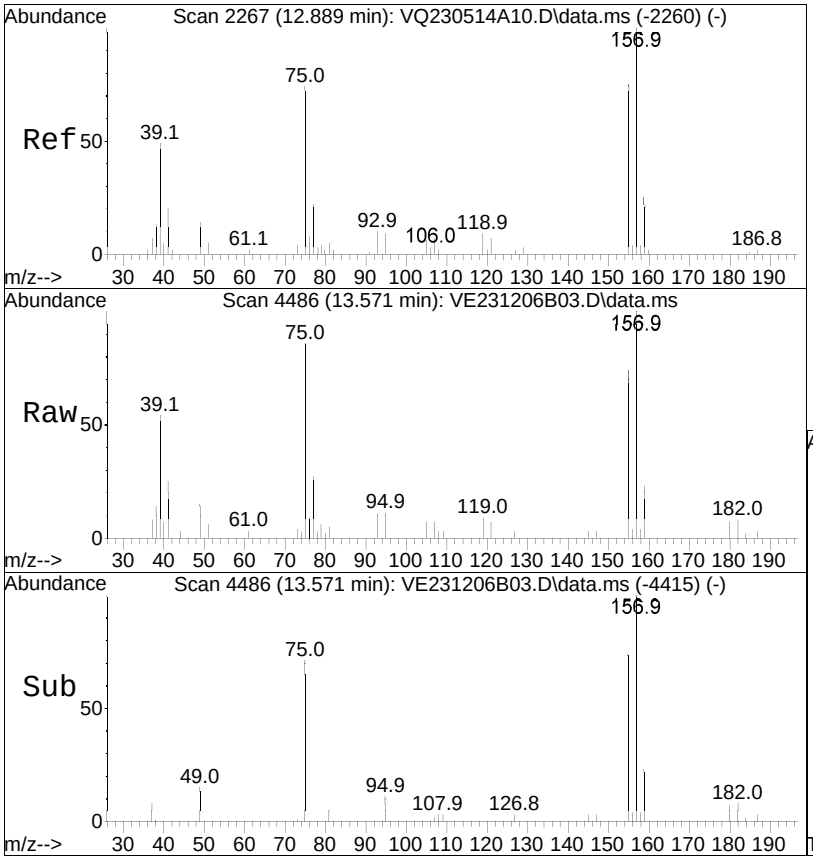


#109
1,2-Dichlorobenzene
Concen: 10.29 ug/L
RT: 12.798 min Scan# 4208
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:146 Resp: 151720

Ion	Ratio	Lower	Upper
146	100		
111	40.6	27.7	57.5
148	63.9	41.3	85.7

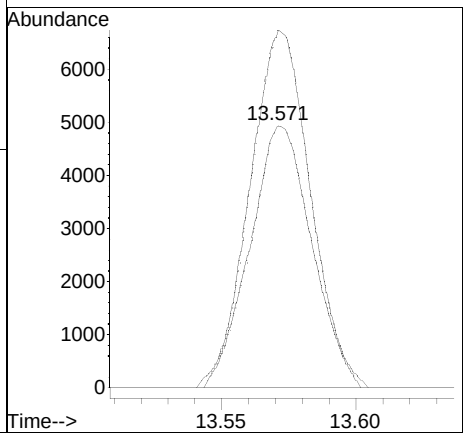


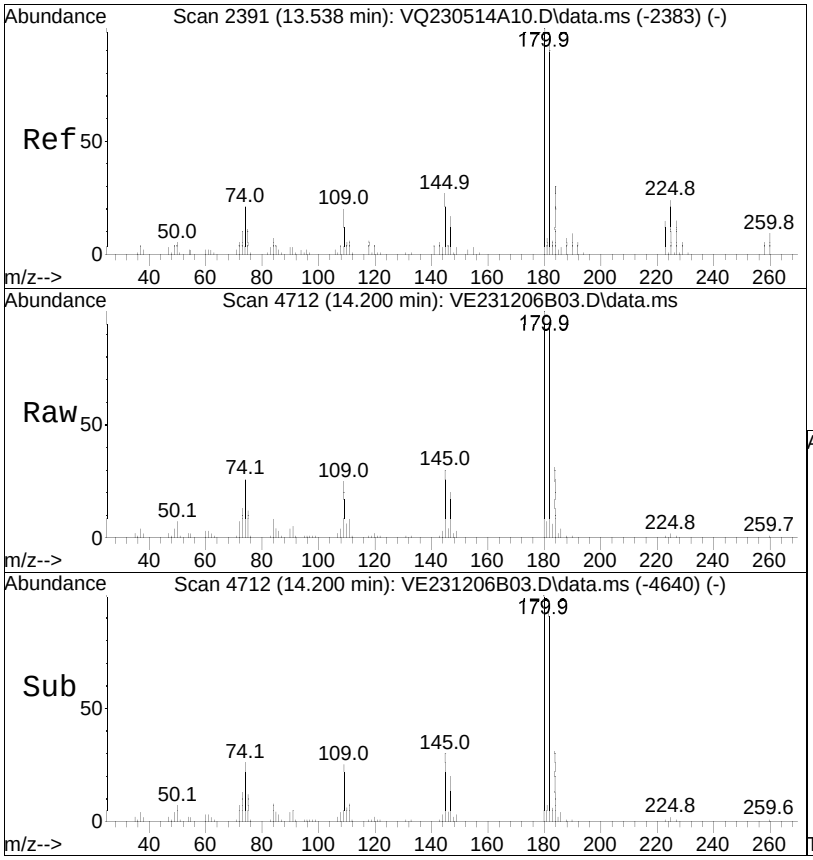


#111
1,2-Dibromo-3-chloropropane
Concen: 9.23 ug/L
RT: 13.571 min Scan# 4486
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:155 Resp: 7841

Ion	Ratio	Lower	Upper
155	100		
157	133.8	100.1	150.1

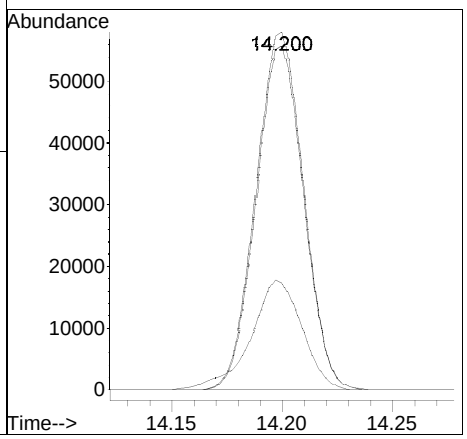


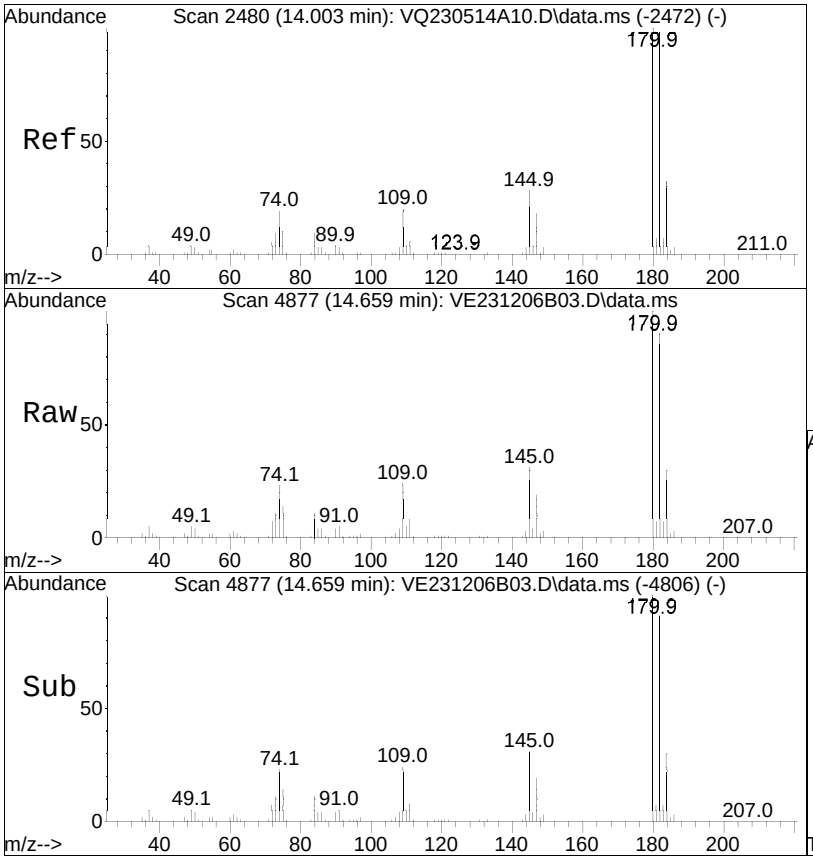


#114
1,2,4-Trichlorobenzene
Concen: 9.63 ug/L
RT: 14.200 min Scan# 4712
Delta R.T. -0.000 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:180 Resp: 86488

Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.0	114.0
145	33.0	28.4	42.6

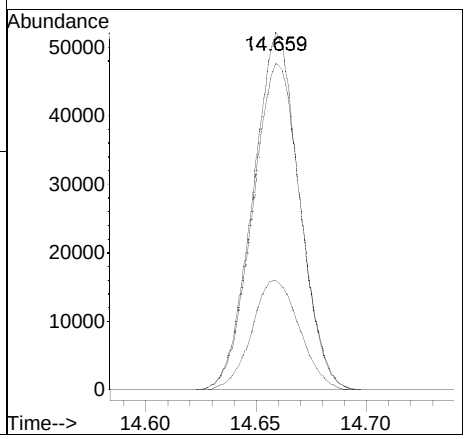




#116
1,2,3-Trichlorobenzene
Concen: 9.64 ug/L
RT: 14.659 min Scan# 4877
Delta R.T. -0.003 min
Lab File: VE231206B03.D
Acq: 6 Dec 2023 10:09 am

Tgt Ion:180 Resp: 75440

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.5	114.7
145	31.7	26.6	39.8



Manual Integration Report

Data Path	: K:\Elaine\2023\231206B\	QMethod	: Elaine_231127N_8260.m
Data File	: VE231206B03.D	Operator	: ELAINE:PID
Date Inj'd	: 12/6/2023 10:09 am	Instrument	: Elaine
Sample	: WG1860843-4,31,10,10	Quant Date	: 12/6/2023 11:38 am

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B25.D
Acq On : 6 Dec 2023 7:08 pm
Operator : ELAINE:MJV
Sample : WG1860843-6,31,10,10,,A1
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 20:22:10 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	257219	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 79.84%			
63) Chlorobenzene-d5	9.684	117	234385	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 80.78%			
84) 1,4-Dichlorobenzene-d4	12.364	152	144658	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 85.86%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	68604	10.684	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.84%			
47) 1,2-Dichloroethane-d4	5.842	65	68570	9.456	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.56%			
64) Toluene-d8	7.831	98	263182	9.781	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.81%			
88) 4-Bromofluorobenzene	11.162	95	98995	9.046	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.658	85	41079	6.441	ug/L	97
3) Chloromethane	1.852	50	48690	6.673	ug/L	99
4) Vinyl chloride	1.930	62	57867	8.735	ug/L	99
5) Bromomethane	2.250	94	21519	10.408	ug/L	99
6) Chloroethane	2.373	64	35043	10.325	ug/L	94
7) Trichlorofluoromethane	2.517	101	76301	11.342	ug/L	96
10) 1,1-Dichloroethene	3.018	96	51410	11.969	ug/L	79
11) Carbon disulfide	3.049	76	155415	11.413	ug/L	99
12) Freon-113	3.060	101	51705	10.823	ug/L	100
15) Methylene chloride	3.588	84	60873	11.352	ug/L	87
17) Acetone	3.633	43	9051	7.070	ug/L #	72
18) trans-1,2-Dichloroethene	3.744	96	53933	11.265	ug/L	91
19) Methyl acetate	3.747	43	18478	6.116	ug/L #	93
21) Methyl tert-butyl ether	3.844	73	114984	9.887	ug/L	96
25) 1,1-Dichloroethane	4.337	63	105144	10.176	ug/L	99
30) cis-1,2-Dichloroethene	4.863	96	62576	11.391	ug/L	87
33) Bromochloromethane	5.057	128	29131	12.197	ug/L	86
34) Cyclohexane	5.063	56	82689	7.070	ug/L	95
35) Chloroform	5.130	83	114157	13.111	ug/L	96
37) Carbon tetrachloride	5.266	117	78337	12.015	ug/L	98

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B25.D
Acq On : 6 Dec 2023 7:08 pm
Operator : ELAINE:MJV
Sample : WG1860843-6,31,10,10,,A1
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 20:22:10 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40)	1,1,1-Trichloroethane	5.336	97	92757	11.870	ug/L		93
42)	2-Butanone	5.425	43	12369	6.769	ug/L	#	67
45)	Benzene	5.706	78	233982	11.522	ug/L		94
48)	1,2-Dichloroethane	5.912	62	62809	9.340	ug/L		96
51)	Methyl cyclohexane	6.298	83	77746	8.718	ug/L		89
52)	Trichloroethene	6.307	95	55654	10.772	ug/L		98
55)	1,2-Dichloropropane	6.855	63	54432	9.271	ug/L		97
58)	Bromodichloromethane	6.924	83	70752	10.833	ug/L		98
61)	1,4-Dioxane	7.133	88	15974	526.747	ug/L	#	87
62)	cis-1,3-Dichloropropene	7.623	75	75328	9.713	ug/L	#	85
65)	Toluene	7.893	92	142195	10.669	ug/L		99
66)	4-Methyl-2-pentanone	8.327	58	9308	6.161	ug/L		89
67)	Tetrachloroethene	8.338	166	61027	10.204	ug/L		96
69)	trans-1,3-Dichloropropene	8.374	75	64850	9.614	ug/L		83
72)	1,1,2-Trichloroethane	8.560	83	34388	10.151	ug/L		97
73)	Chlorodibromomethane	8.772	129	47393	9.914	ug/L		99
75)	1,2-Dibromoethane	9.053	107	38582	9.903	ug/L		98
77)	2-Hexanone	9.339	43	14361	5.347	ug/L		92
78)	Chlorobenzene	9.707	112	156799	10.746	ug/L		91
79)	Ethylbenzene	9.746	91	269286	10.530	ug/L		98
81)	p/m Xylene	9.932	106	211381	21.622	ug/L		96
82)	o Xylene	10.466	106	205255	21.758	ug/L		96
83)	Styrene	10.530	104	333115	22.285	ug/L		93
85)	Bromoform	10.552	173	26652	8.758	ug/L		99
87)	Isopropylbenzene	10.845	105	263876	9.354	ug/L		99
92)	1,1,2,2-Tetrachloroethane	11.404	83	45296	10.119	ug/L		97
105)	1,3-Dichlorobenzene	12.286	146	129575	9.731	ug/L		98
106)	1,4-Dichlorobenzene	12.378	146	128968	9.668	ug/L		99
109)	1,2-Dichlorobenzene	12.798	146	117495	9.514	ug/L		99
111)	1,2-Dibromo-3-chloropr...	13.571	155	6453	9.071	ug/L		98
114)	1,2,4-Trichlorobenzene	14.200	180	63554	8.452	ug/L		96
116)	1,2,3-Trichlorobenzene	14.662	180	56358	8.600	ug/L		99

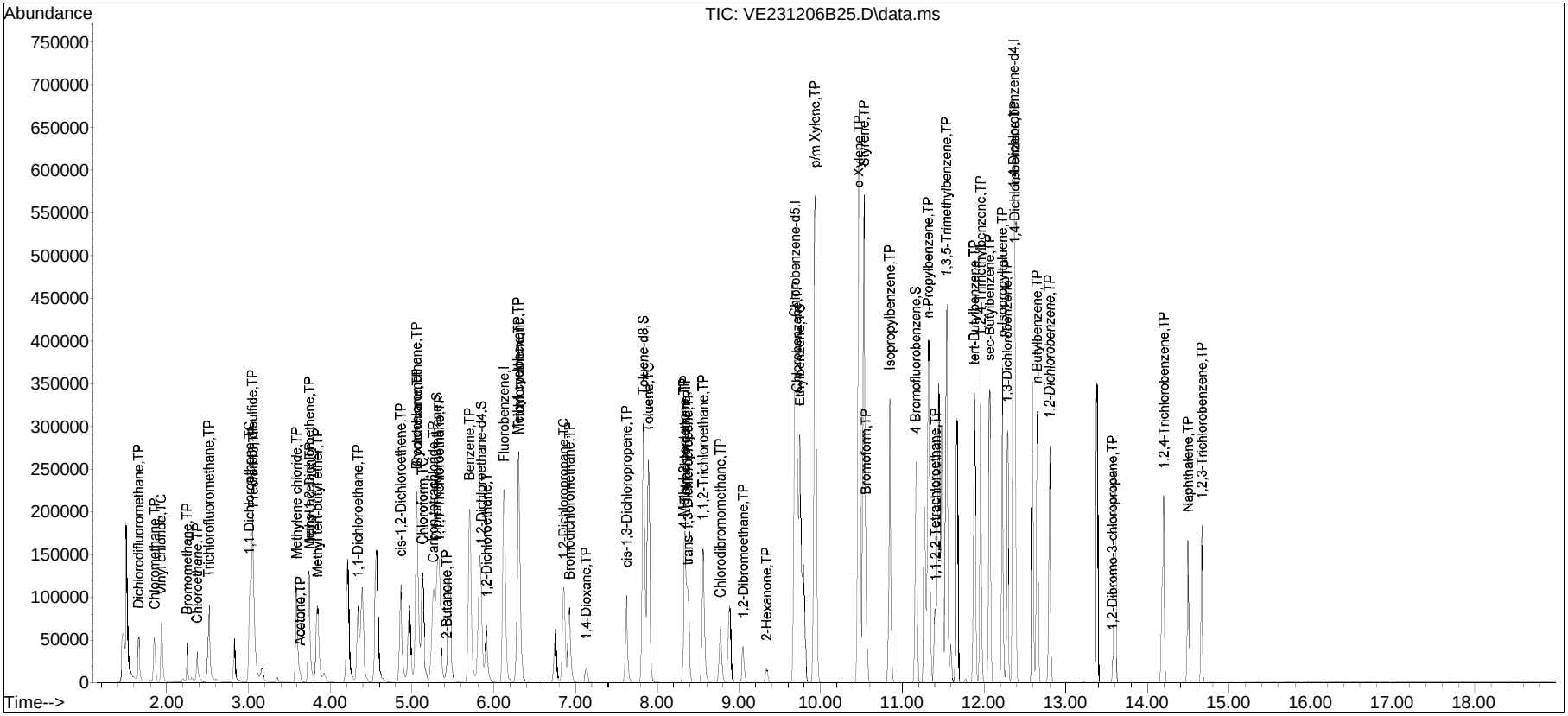
(#) = qualifier out of range (m) = manual integration (+) = signals summed

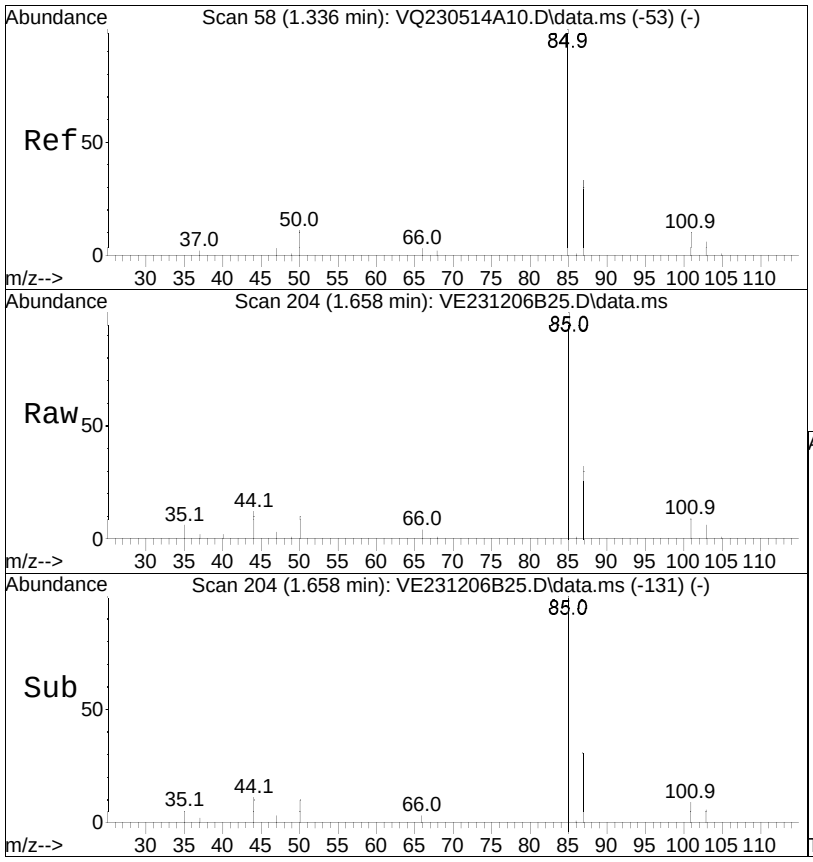
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B25.D
Acq On : 6 Dec 2023 7:08 pm
Operator : ELAINE:MJV
Sample : WG1860843-6,31,10,10,,A1
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 20:22:10 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

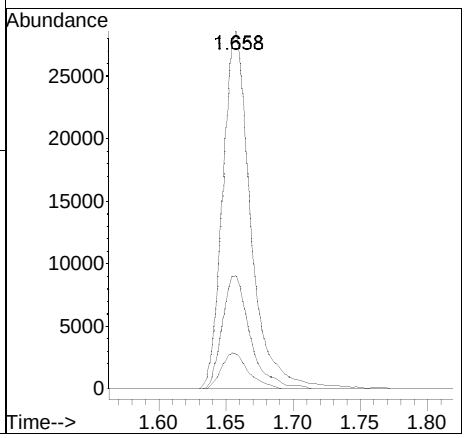


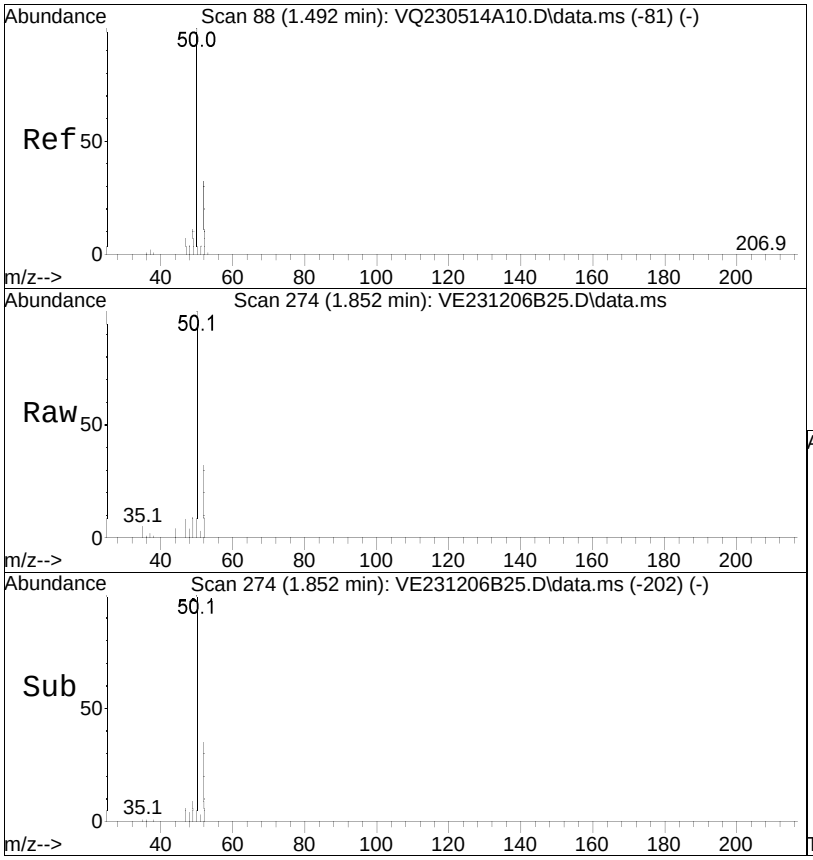


#2
Dichlorodifluoromethane
Concen: 6.44 ug/L
RT: 1.658 min Scan# 204
Delta R.T. 0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 85 Resp: 41079

Ion	Ratio	Lower	Upper
85	100		
87	31.7	20.9	43.5
50	9.9	8.6	18.0

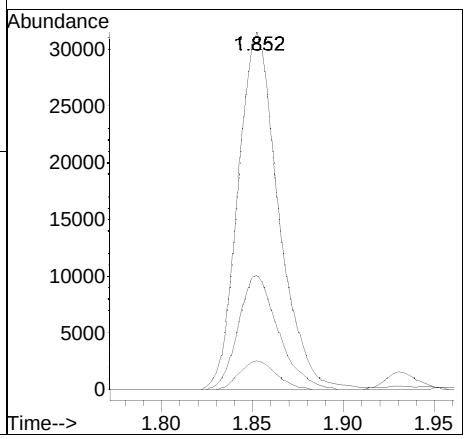


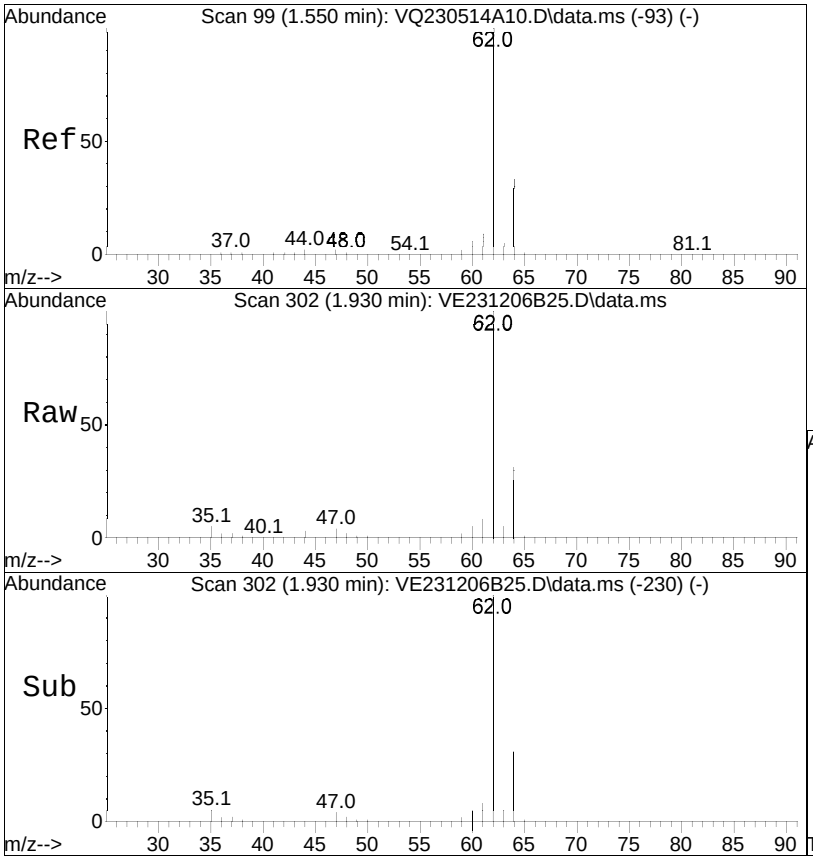


#3
Chloromethane
Concen: 6.67 ug/L
RT: 1.852 min Scan# 274
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 50 Resp: 48690

Ion	Ratio	Lower	Upper
50	100		
52	31.9	11.5	51.5
47	7.5	0.0	28.2

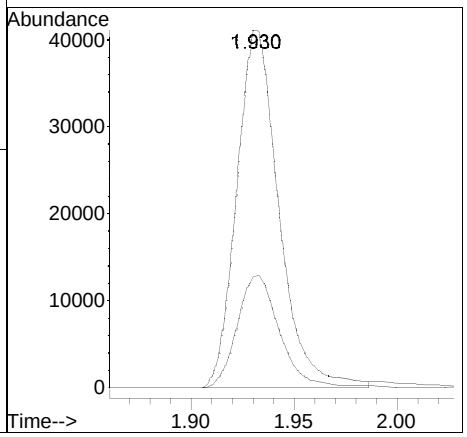


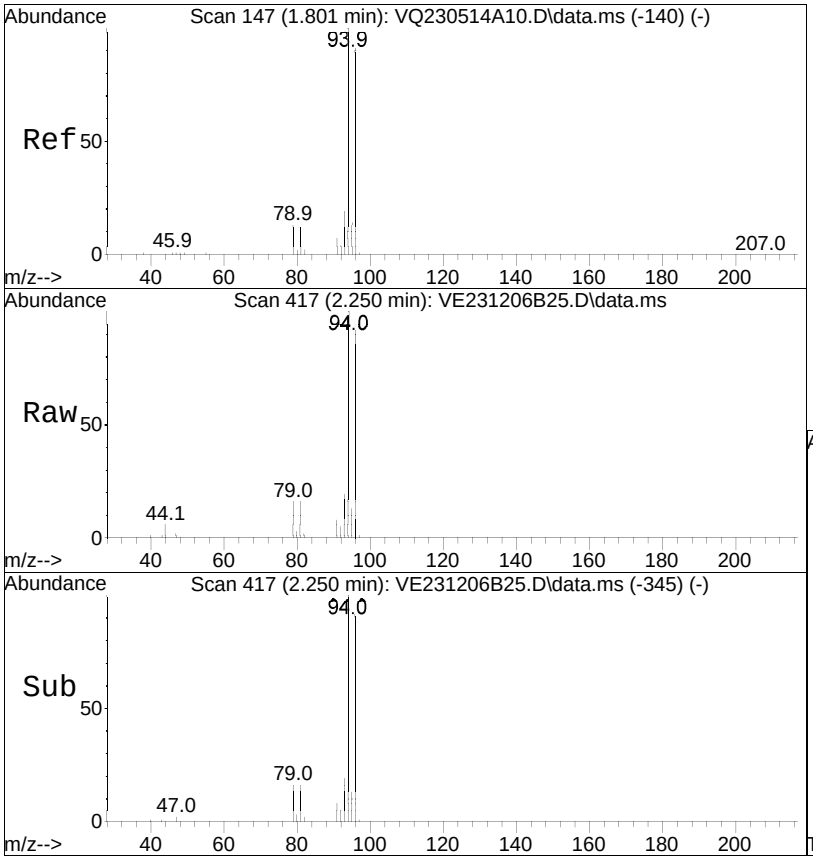


#4
Vinyl chloride
Concen: 8.73 ug/L
RT: 1.930 min Scan# 302
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 62 Resp: 57867

Ion	Ratio	Lower	Upper
62	100		
64	31.6	12.4	52.4

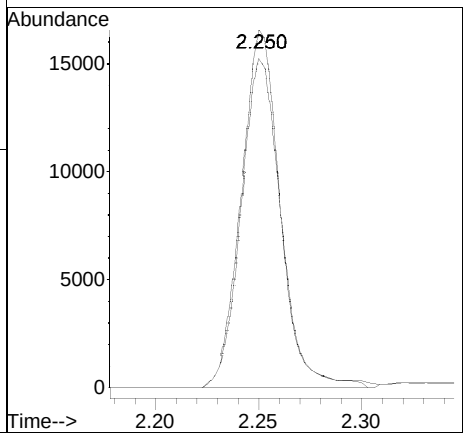


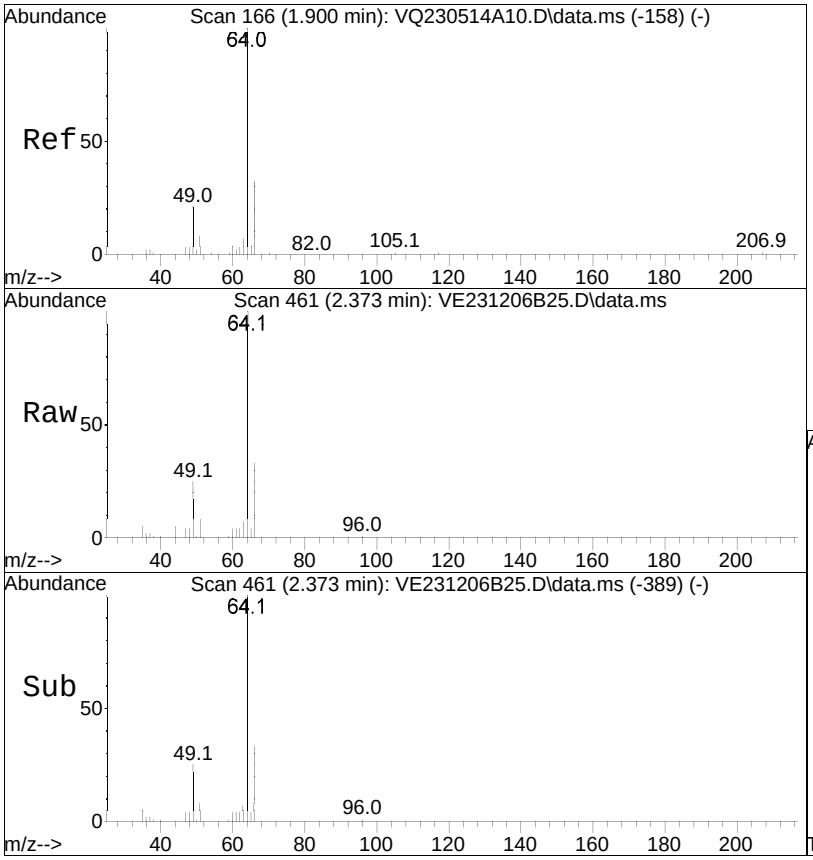


#5
Bromomethane
Concen: 10.41 ug/L
RT: 2.250 min Scan# 417
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 94 Resp: 21519

Ion	Ratio	Lower	Upper
94	100		
96	94.9	73.9	113.9

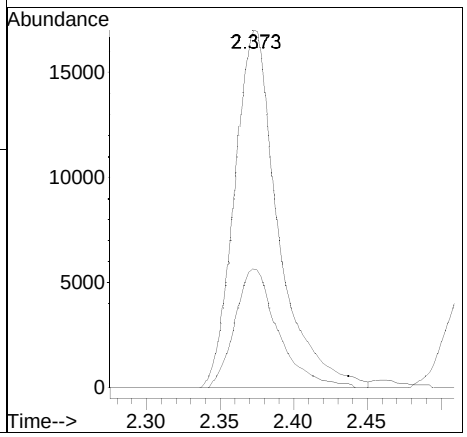


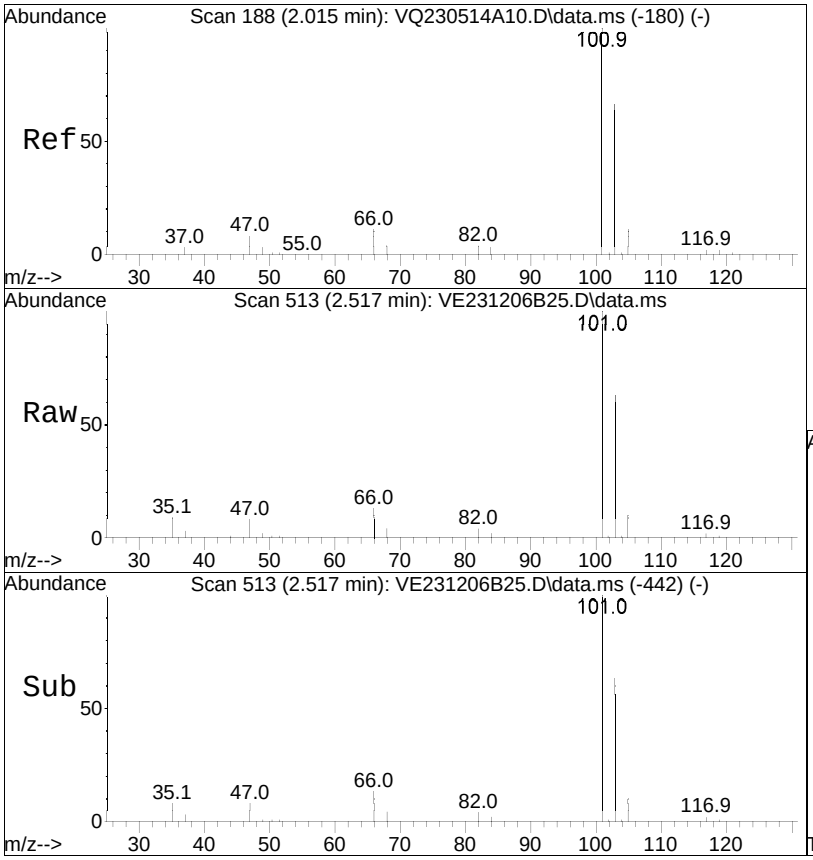


#6
Chloroethane
Concen: 10.32 ug/L
RT: 2.373 min Scan# 461
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 64 Resp: 35043

Ion	Ratio	Lower	Upper
64	100		
66	33.2	9.7	49.7

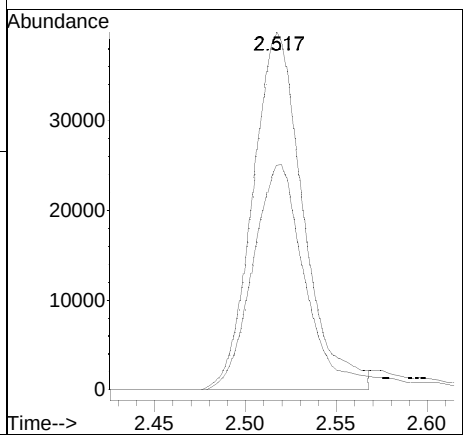


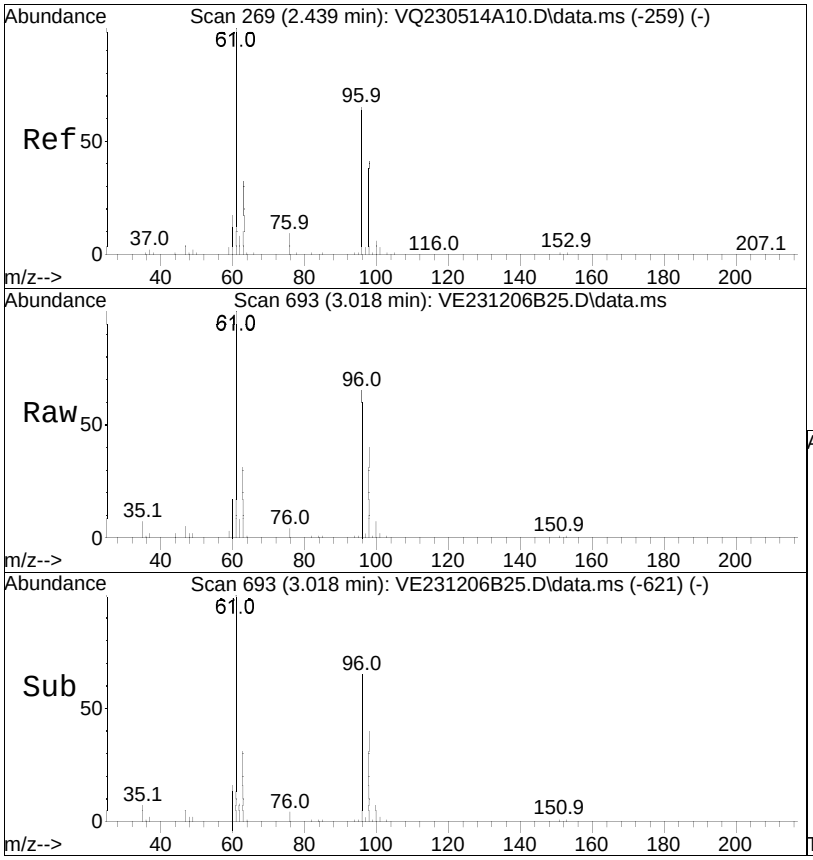


#7
Trichlorofluoromethane
Concen: 11.34 ug/L
RT: 2.517 min Scan# 513
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:101 Resp: 76301

Ion	Ratio	Lower	Upper
101	100		
103	68.4	52.2	78.2

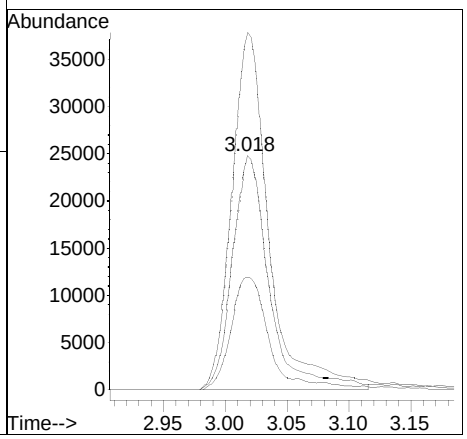


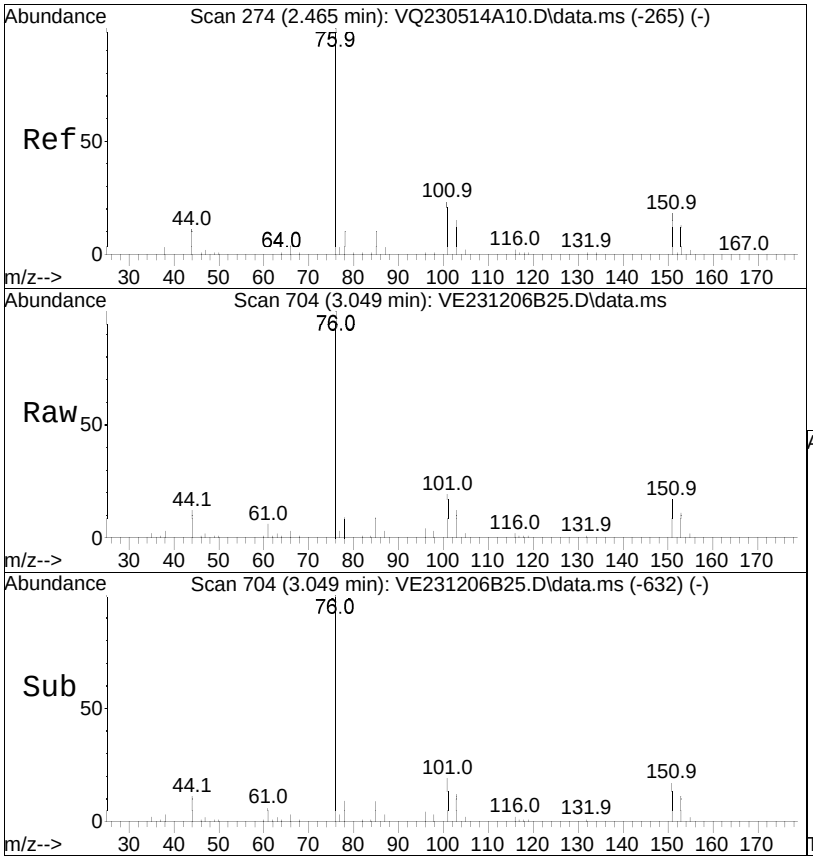


#10
1,1-Dichloroethene
Concen: 11.97 ug/L
RT: 3.018 min Scan# 693
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 96 Resp: 51410

Ion	Ratio	Lower	Upper
96	100		
61	154.4	149.7	224.5
63	47.9	46.8	70.2

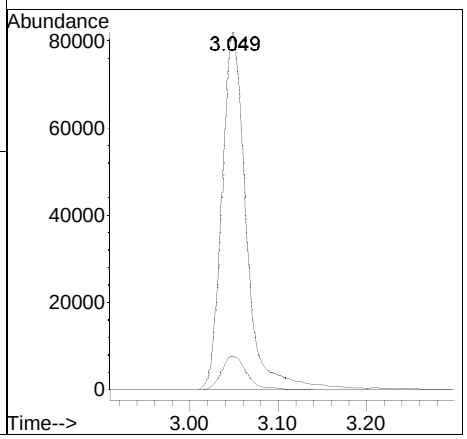


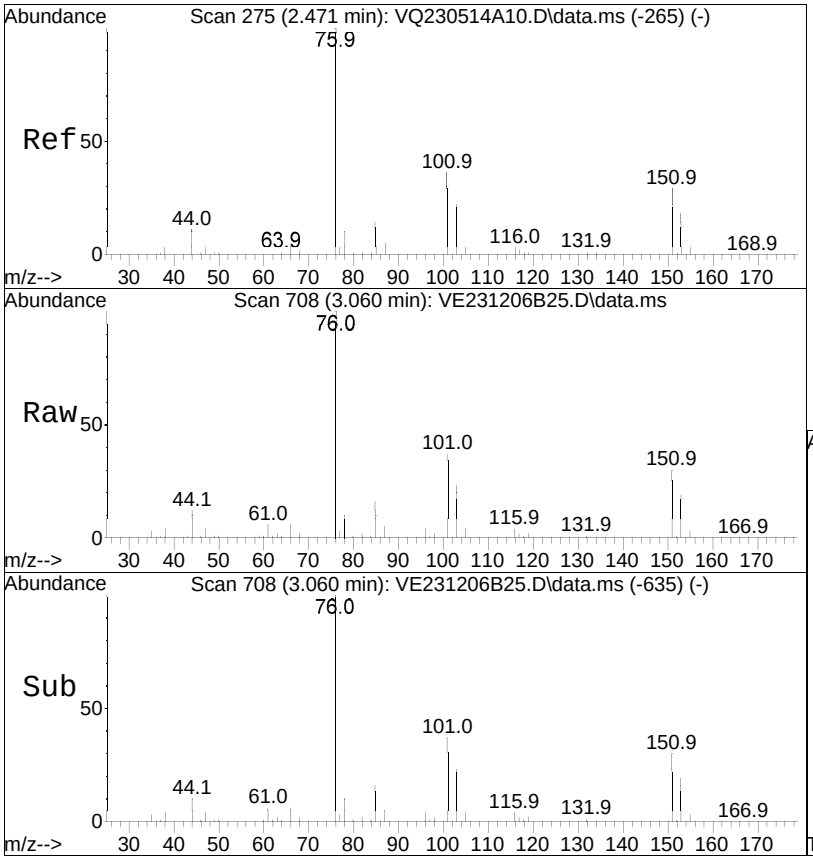


#11
Carbon disulfide
Concen: 11.41 ug/L
RT: 3.049 min Scan# 704
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 76 Resp: 155415

Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.8	14.0

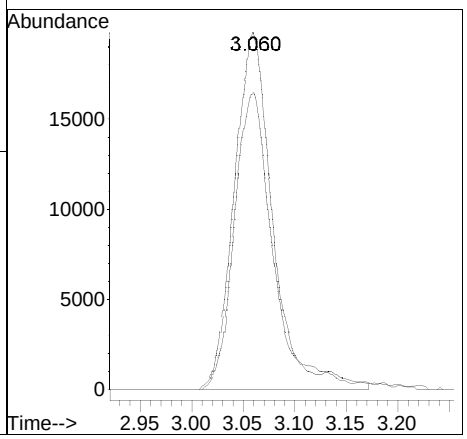


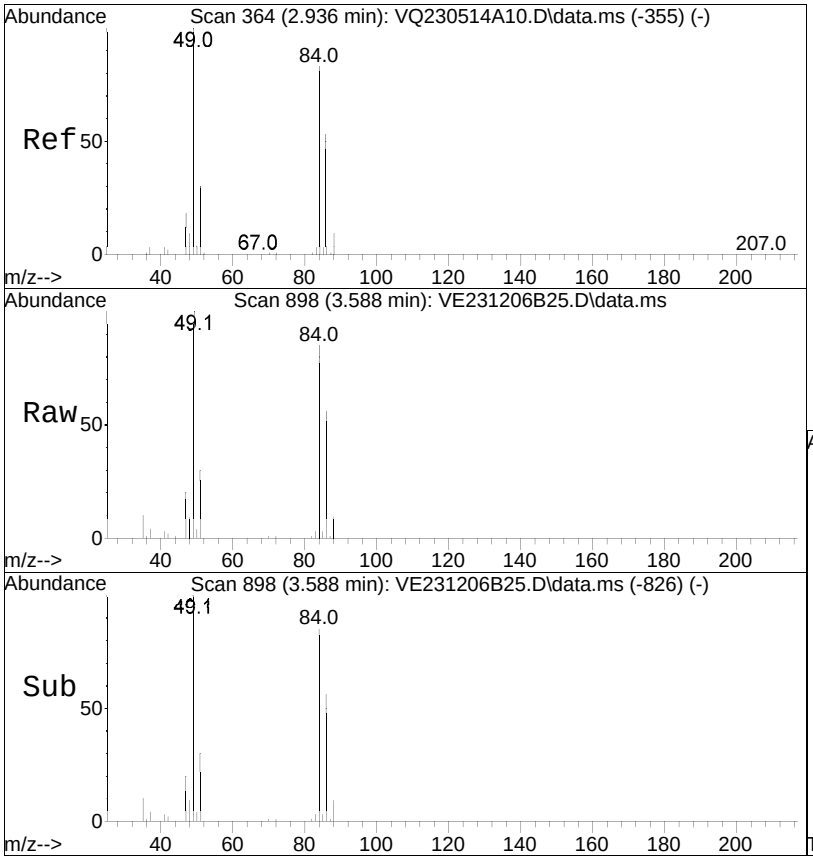


#12
Freon-113
Concen: 10.82 ug/L
RT: 3.060 min Scan# 708
Delta R.T. 0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:101 Resp: 51705

Ion	Ratio	Lower	Upper
101	100		
151	79.5	63.6	95.4

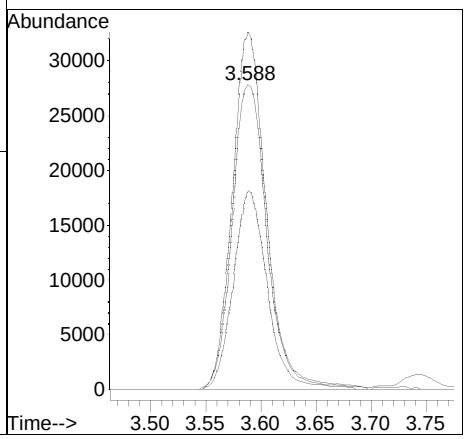


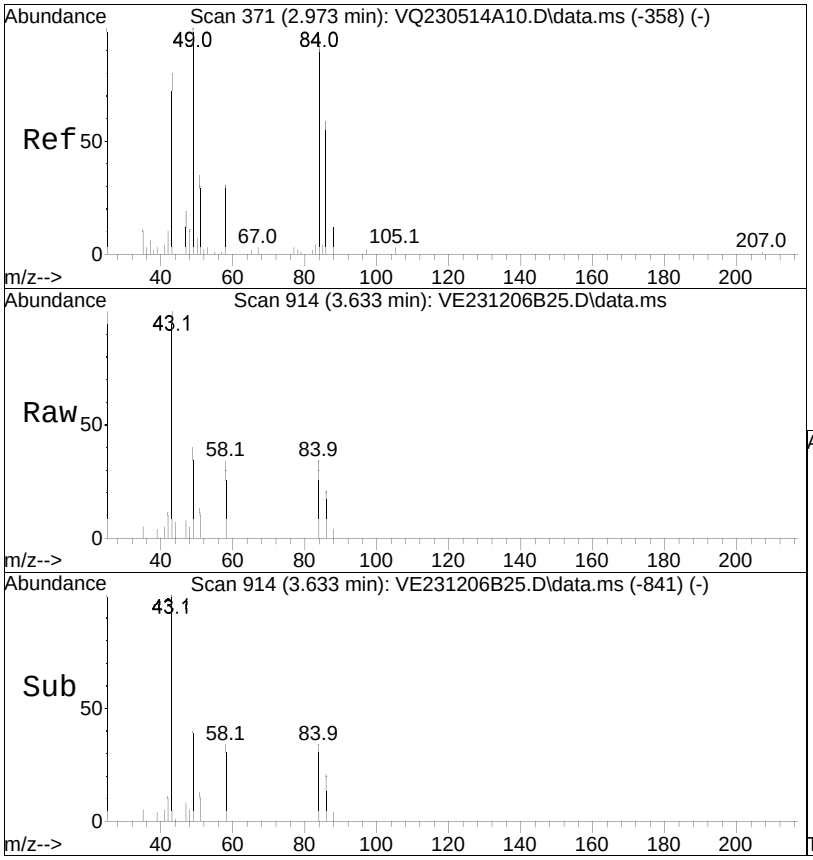


#15
Methylene chloride
Concen: 11.35 ug/L
RT: 3.588 min Scan# 898
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 84 Resp: 60873

Ion	Ratio	Lower	Upper
84	100		
86	63.9	41.0	85.2
49	114.2	88.1	183.1

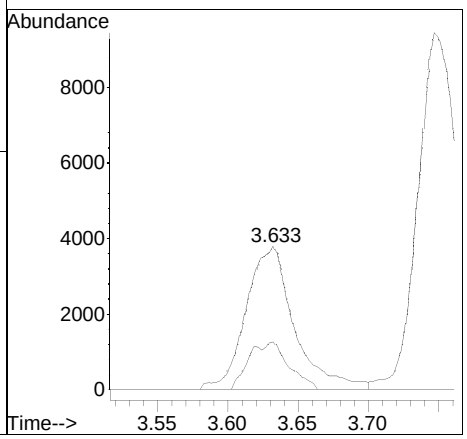


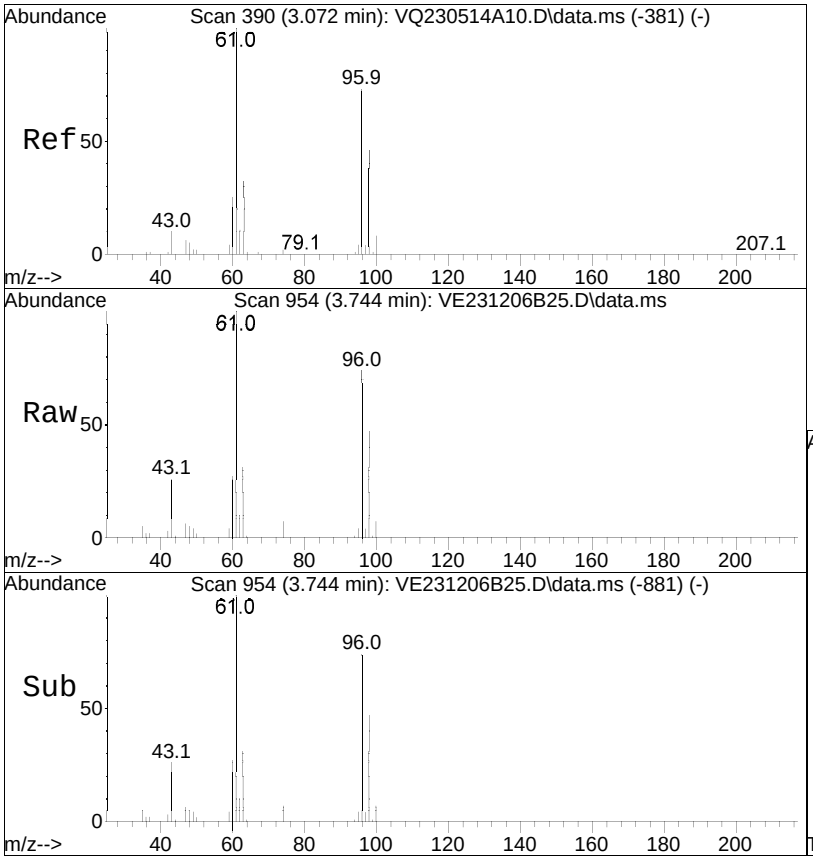


#17
Acetone
Concen: 7.07 ug/L
RT: 3.633 min Scan# 914
Delta R.T. 0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 43 Resp: 9051

Ion	Ratio	Lower	Upper
43	100		
58	11.2	20.2	30.4#

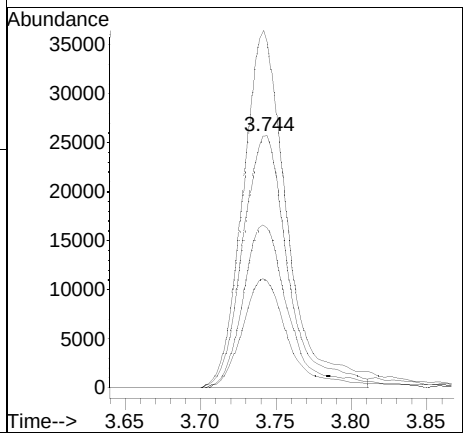


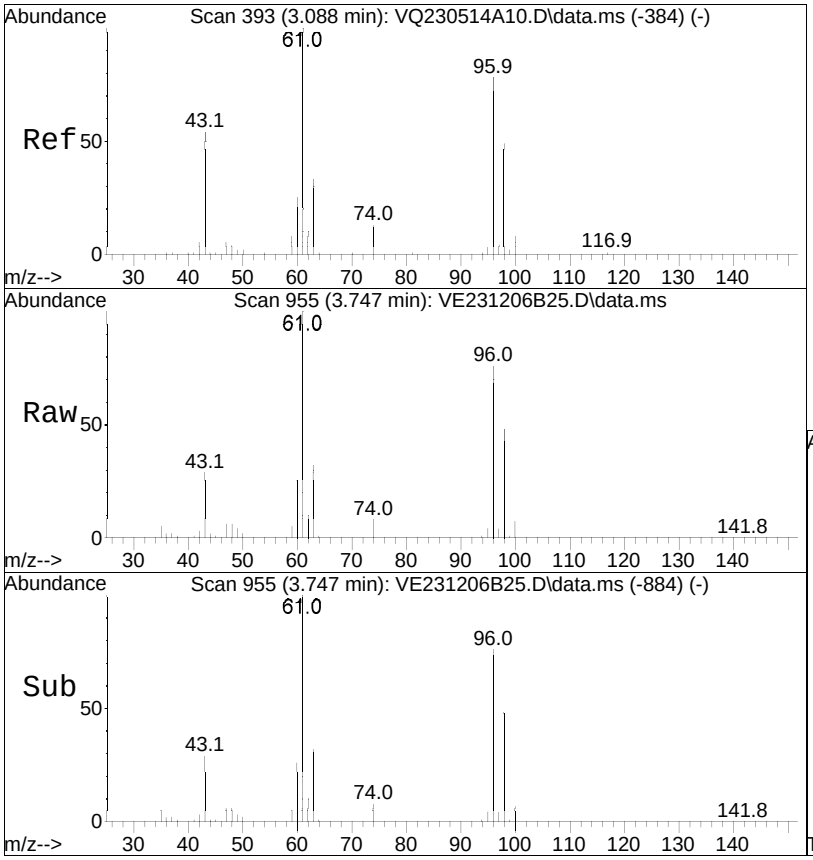


#18
trans-1,2-Dichloroethene
Concen: 11.26 ug/L
RT: 3.744 min Scan# 954
Delta R.T. 0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 96 Resp: 53933

Ion	Ratio	Lower	Upper
96	100		
61	141.3	102.8	213.4
98	64.8	41.8	86.8
63	44.7	32.2	66.8

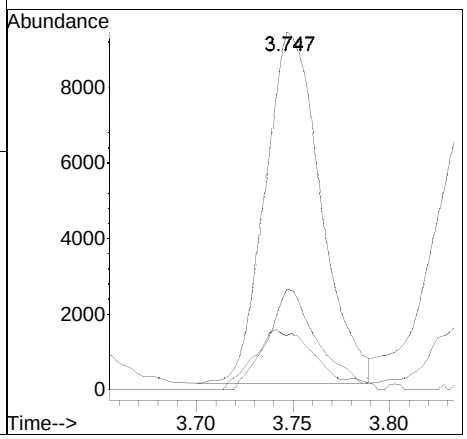


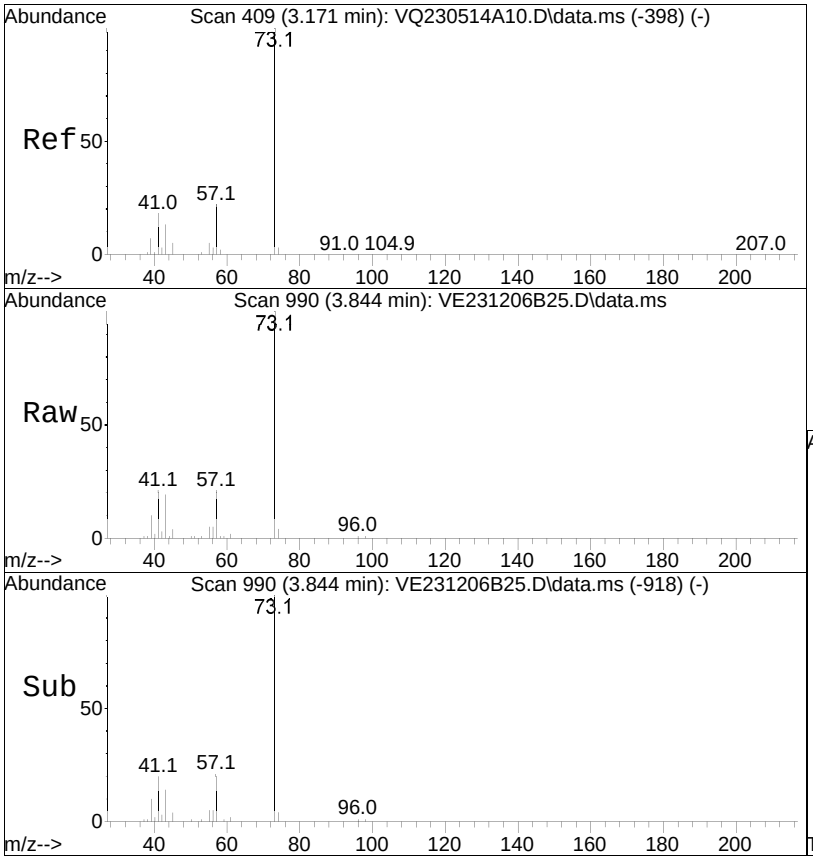


#19
Methyl acetate
Concen: 6.12 ug/L
RT: 3.747 min Scan# 955
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 43 Resp: 18478

Ion	Ratio	Lower	Upper
43	100		
74	26.0	16.6	24.8#
59	18.5	13.9	20.9

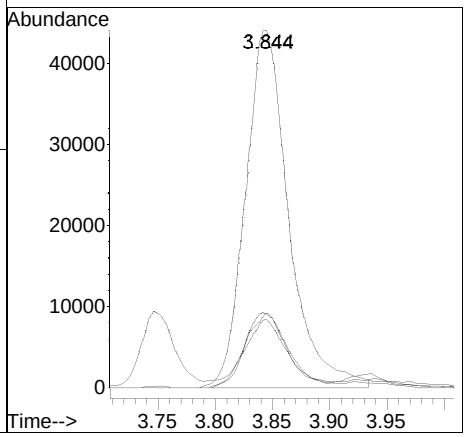


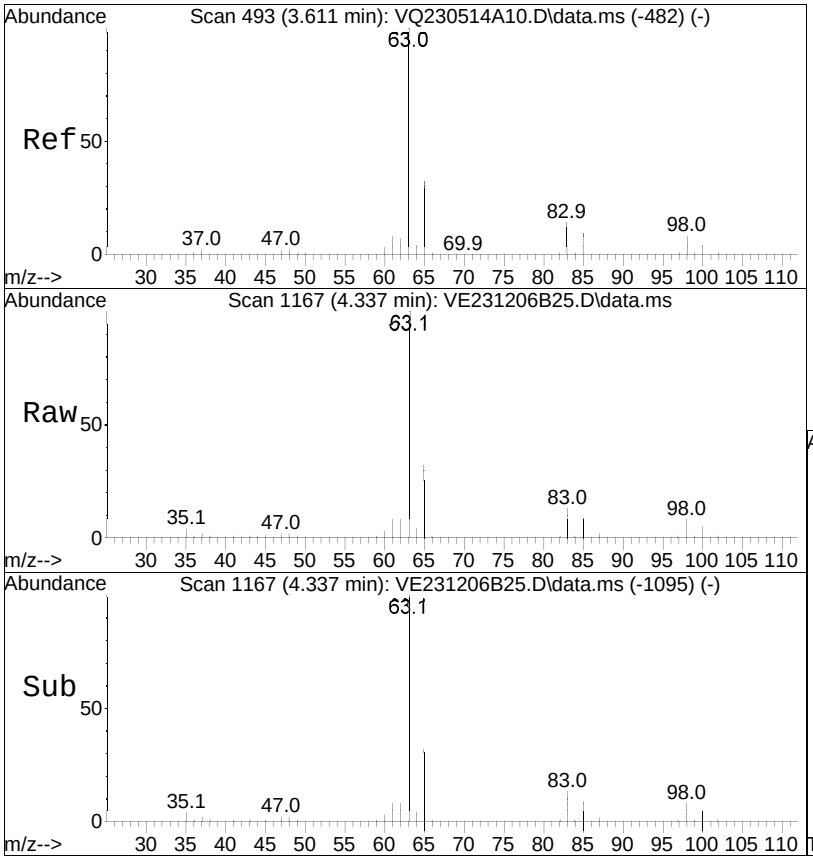


#21
Methyl tert-butyl ether
Concen: 9.89 ug/L
RT: 3.844 min Scan# 990
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 73 Resp: 114984

Ion	Ratio	Lower	Upper
73	100		
57	20.5	14.0	29.0
43	16.8	13.6	28.2
41	21.8	15.0	31.2

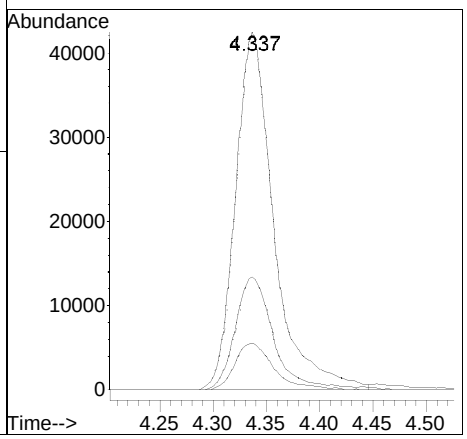


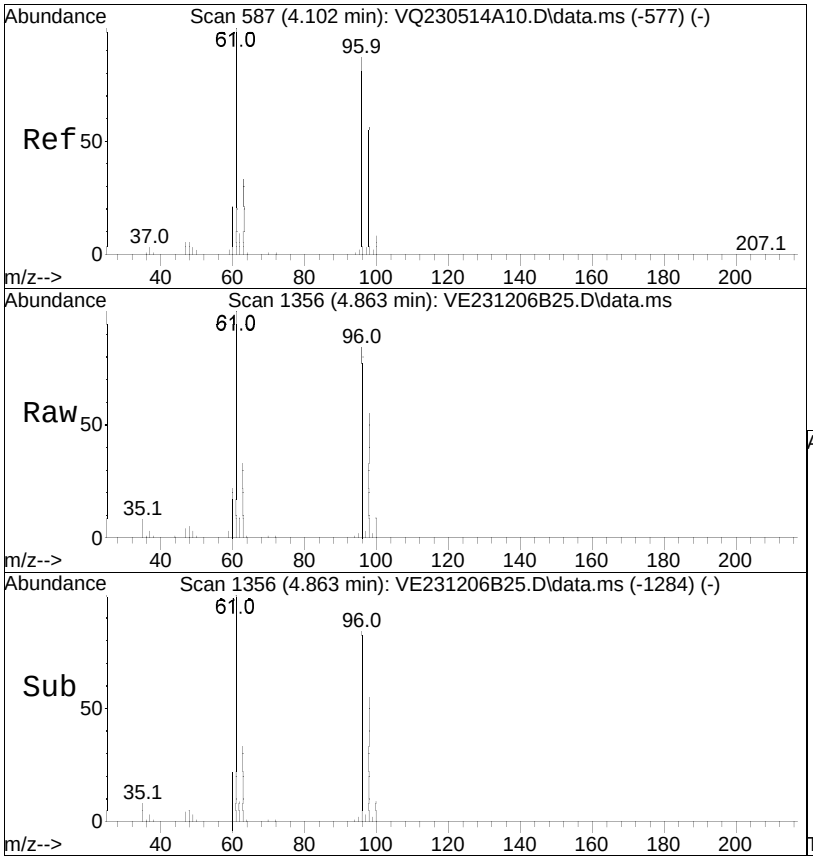


#25
1,1-Dichloroethane
Concen: 10.18 ug/L
RT: 4.337 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 63 Resp: 105144

Ion	Ratio	Lower	Upper
63	100		
65	31.6	11.5	51.5
83	13.3	0.0	32.7

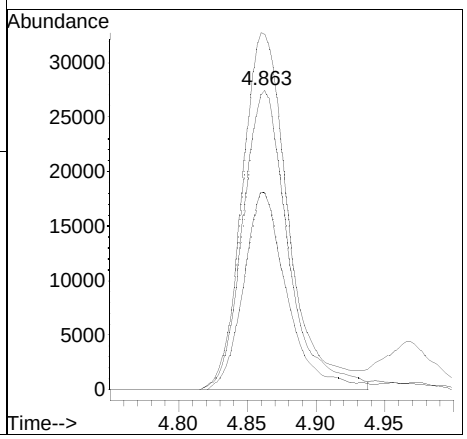


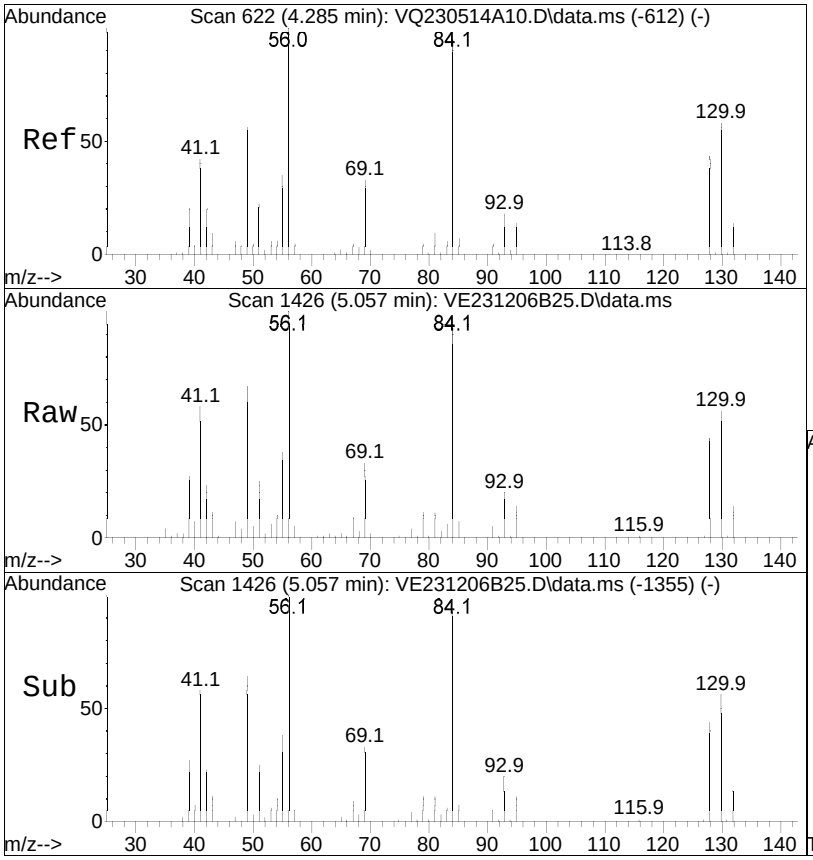


#30
cis-1,2-Dichloroethene
Concen: 11.39 ug/L
RT: 4.863 min Scan# 1356
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 96 Resp: 62576

Ion	Ratio	Lower	Upper
96	100		
61	121.5	115.3	172.9
98	63.3	51.8	77.8

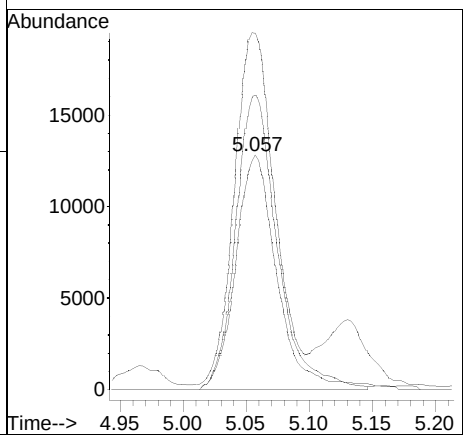


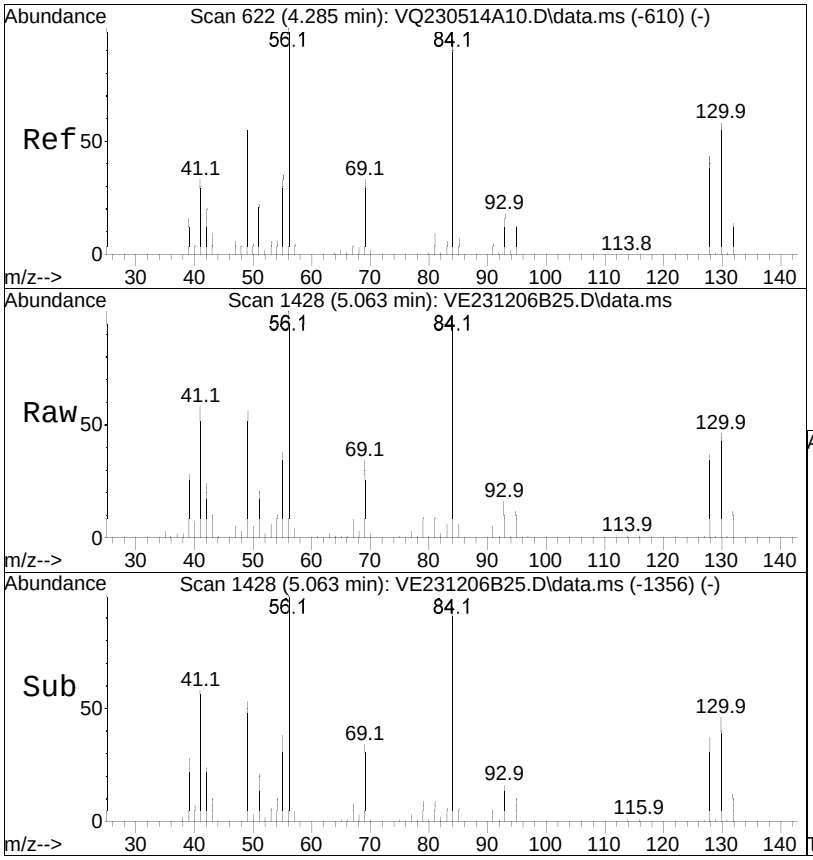


#33
Bromochloromethane
Concen: 12.20 ug/L
RT: 5.057 min Scan# 1426
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:128 Resp: 29131

Ion	Ratio	Lower	Upper
128	100		
49	145.4	143.3	214.9
130	127.7	102.7	154.1

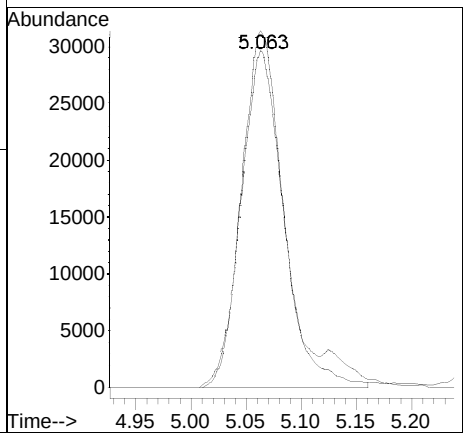


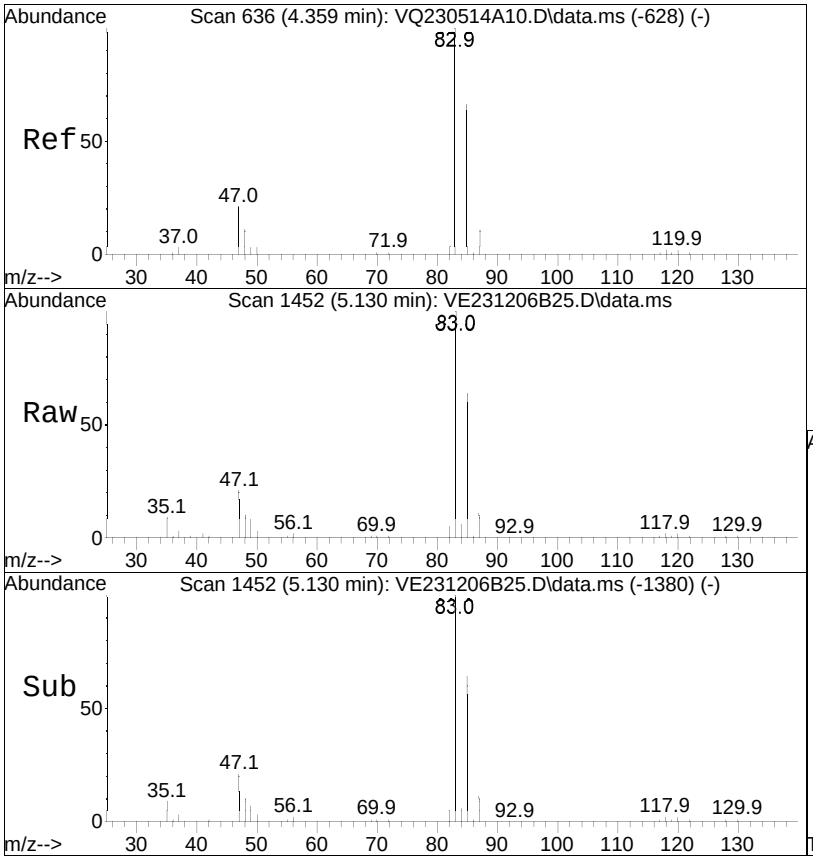


#34
Cyclohexane
Concen: 7.07 ug/L
RT: 5.063 min Scan# 1428
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 56 Resp: 82689

Ion	Ratio	Lower	Upper
56	100		
84	93.1	57.5	119.3

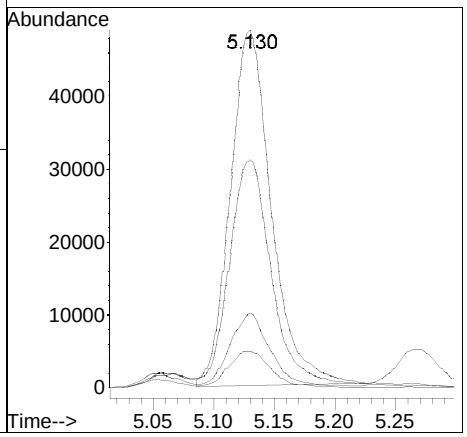


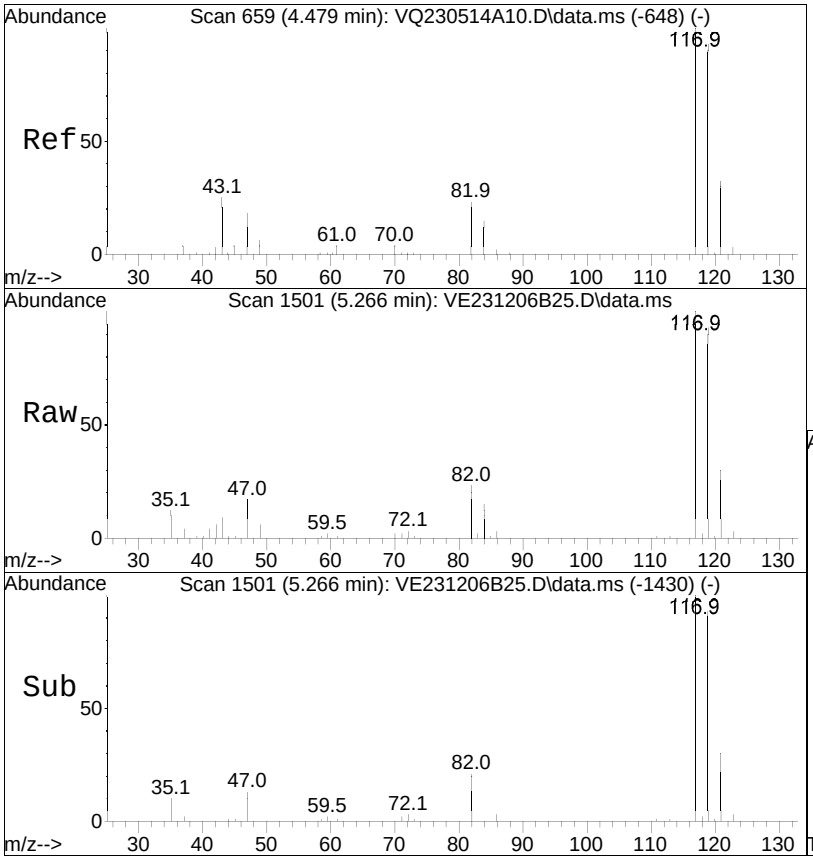


#35
Chloroform
Concen: 13.11 ug/L
RT: 5.130 min Scan# 1452
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 83 Resp: 114157

Ion	Ratio	Lower	Upper
83	100		
85	66.1	43.0	89.2
47	19.7	17.5	36.3
48	10.4	8.8	18.2

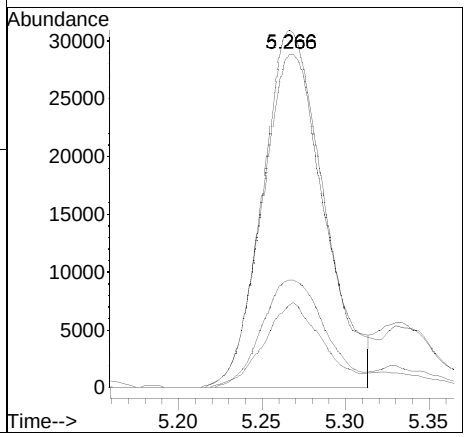


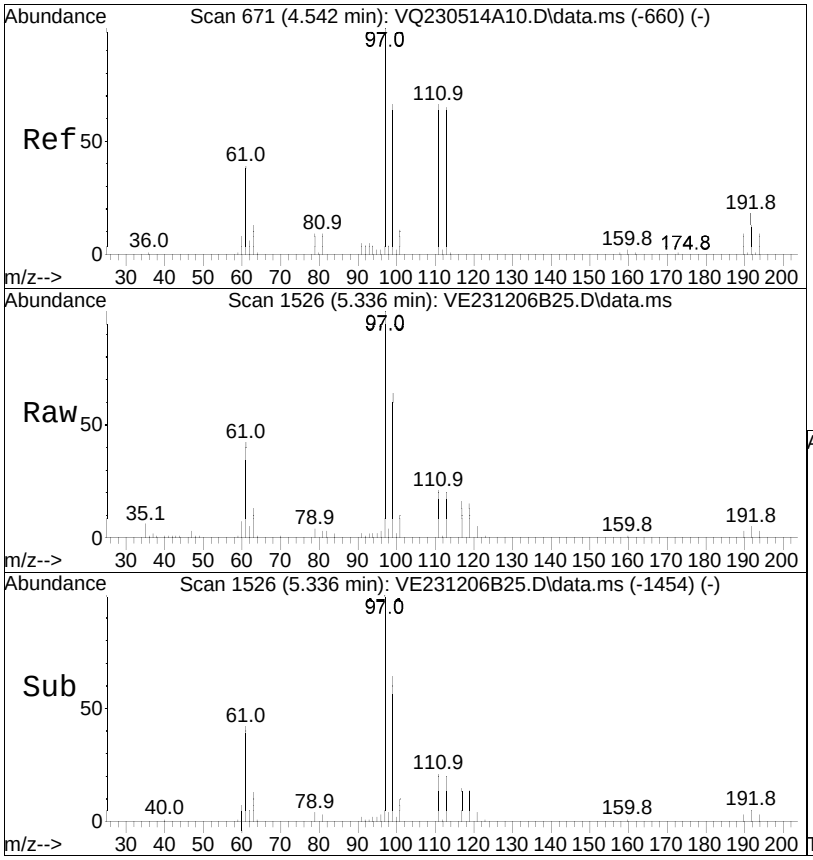


#37
Carbon tetrachloride
Concen: 12.01 ug/L
RT: 5.266 min Scan# 1501
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:117 Resp: 78337

Ion	Ratio	Lower	Upper
117	100		
119	97.3	63.2	131.2
121	31.3	20.3	42.3
82	23.2	18.1	37.7

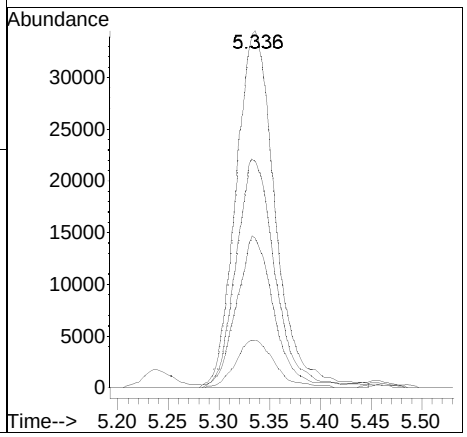


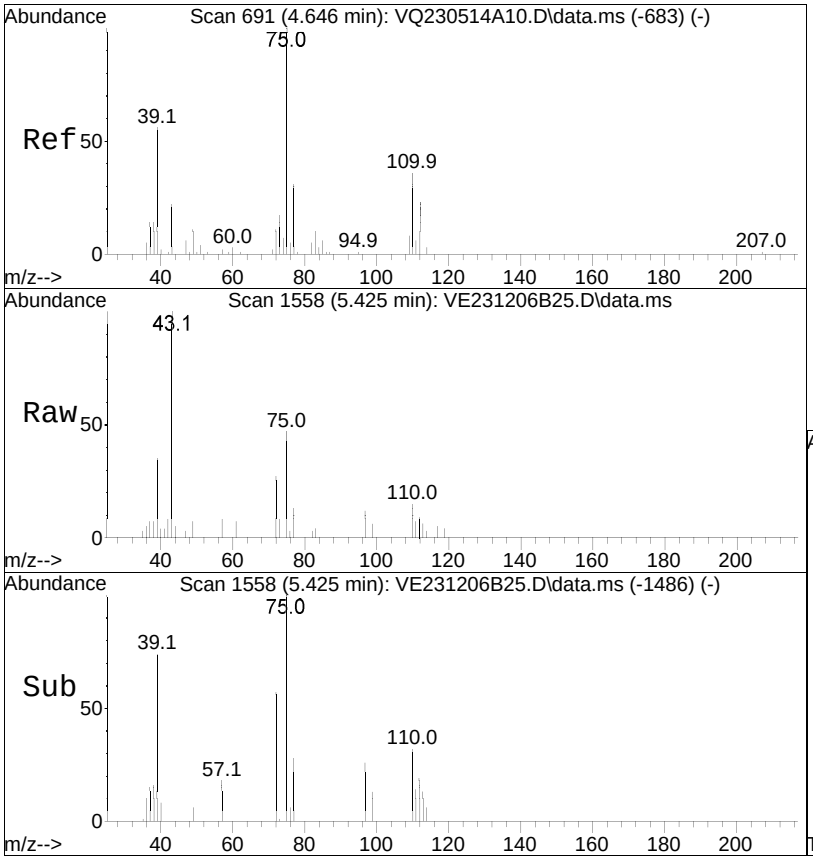


#40
1,1,1-Trichloroethane
Concen: 11.87 ug/L
RT: 5.336 min Scan# 1526
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 97 Resp: 92757

Ion	Ratio	Lower	Upper
97	100		
99	63.1	42.5	88.3
61	38.3	30.4	63.2
63	13.3	9.6	19.8

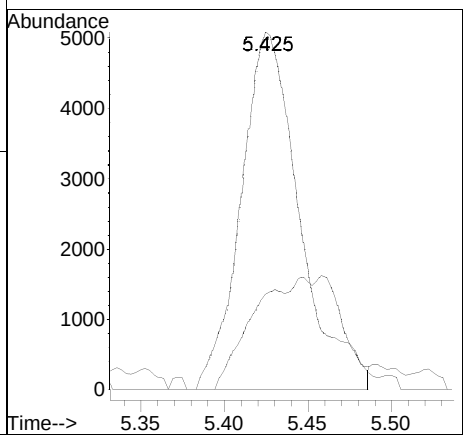


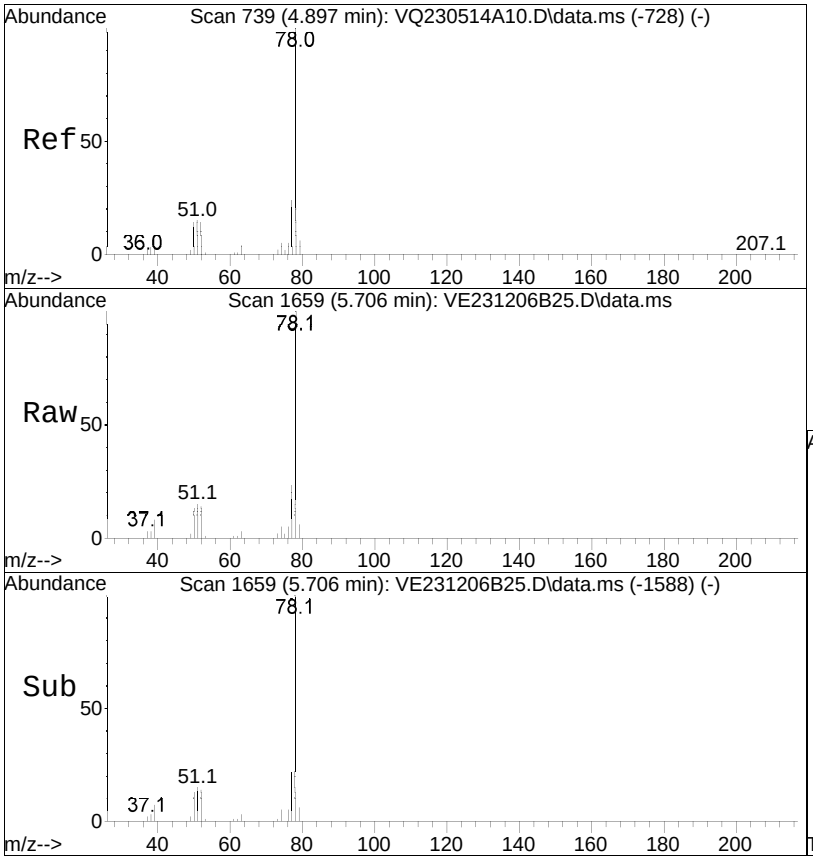


#42
2-Butanone
Concen: 6.77 ug/L
RT: 5.425 min Scan# 1558
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 43 Resp: 12369

Ion	Ratio	Lower	Upper
43	100		
72	19.1	31.2	46.8#

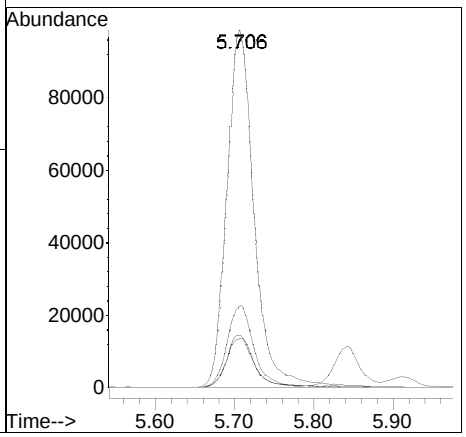


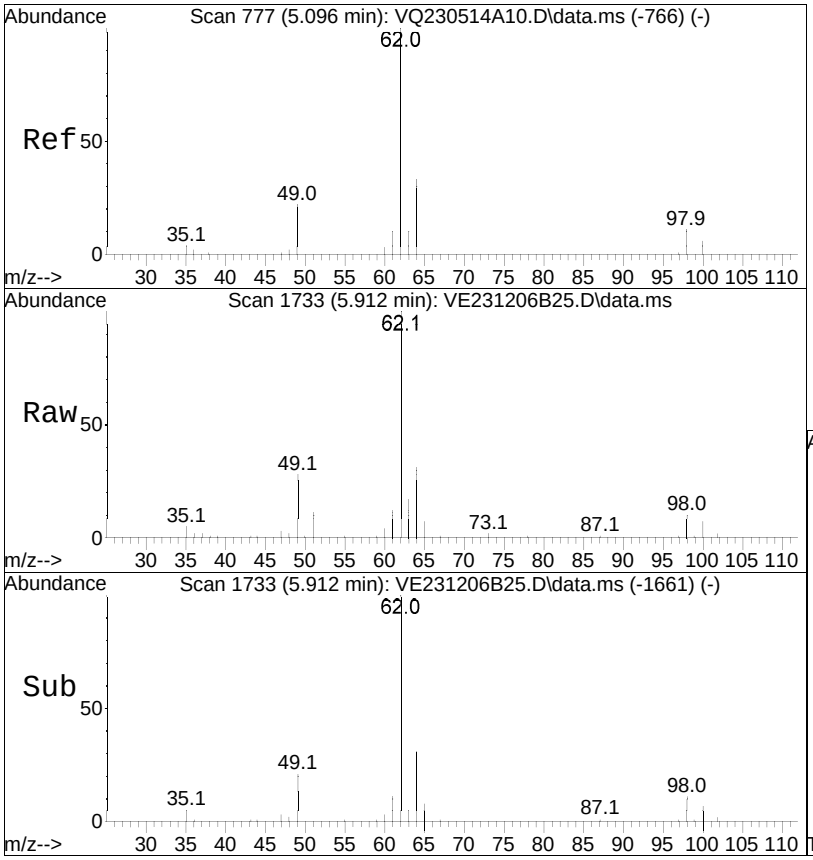


#45
Benzene
Concen: 11.52 ug/L
RT: 5.706 min Scan# 1659
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 78 Resp: 233982

Ion	Ratio	Lower	Upper
78	100		
77	22.8	15.9	33.1
51	14.6	12.3	25.5
52	14.4	11.3	23.5

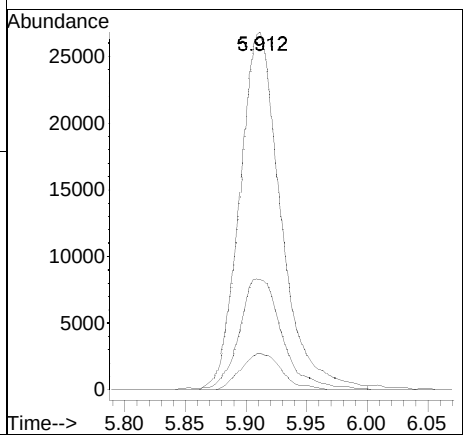


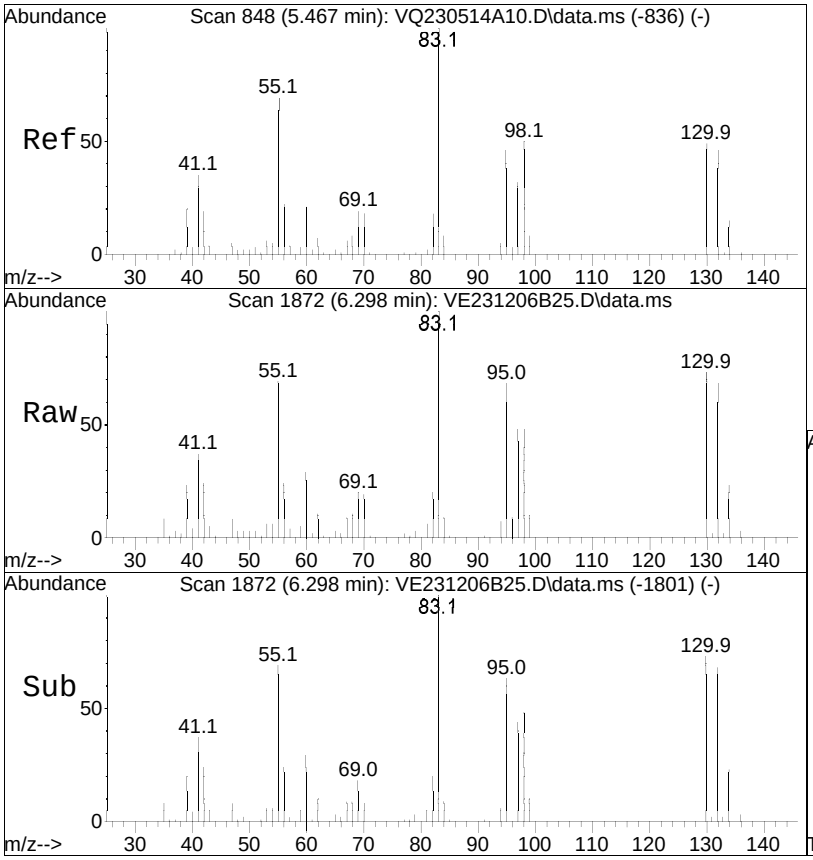


#48
1,2-Dichloroethane
Concen: 9.34 ug/L
RT: 5.912 min Scan# 1733
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 62 Resp: 62809

Ion	Ratio	Lower	Upper
62	100		
64	30.5	12.6	52.6
98	10.4	0.0	28.2

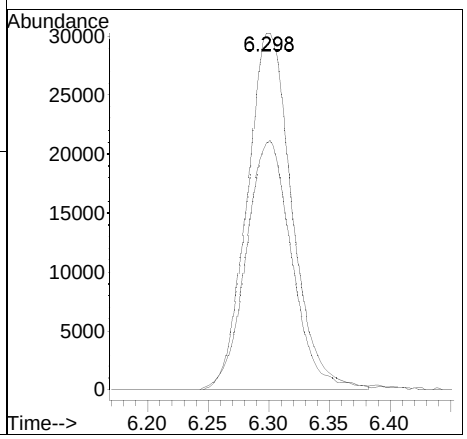


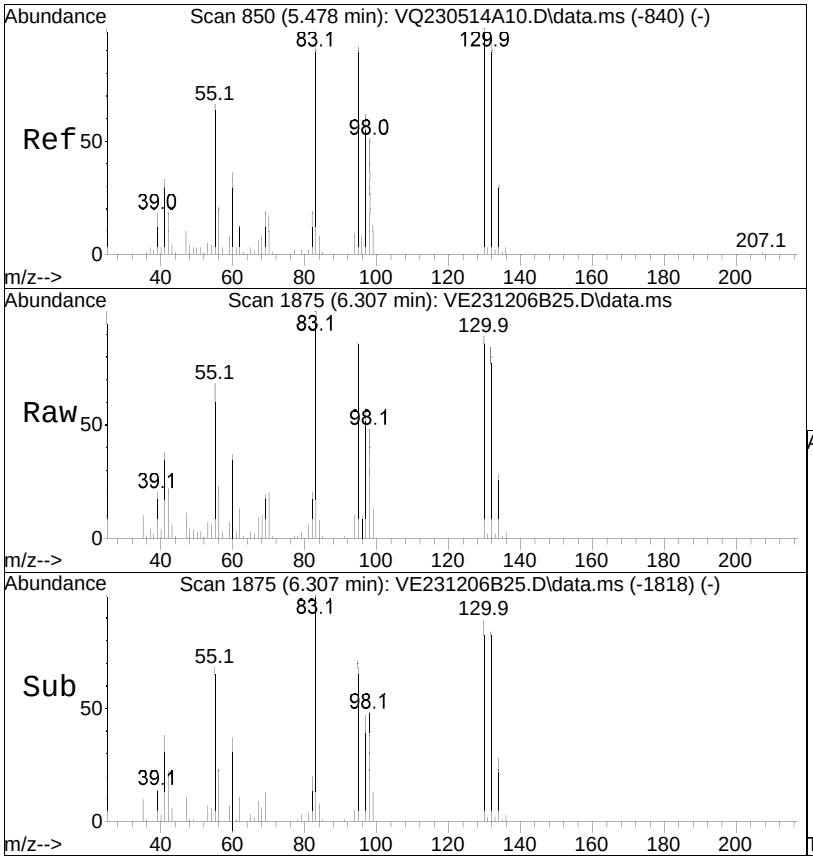


#51
Methyl cyclohexane
Concen: 8.72 ug/L
RT: 6.298 min Scan# 1872
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 83 Resp: 77746

Ion	Ratio	Lower	Upper
83	100		
55	71.2	65.0	97.6

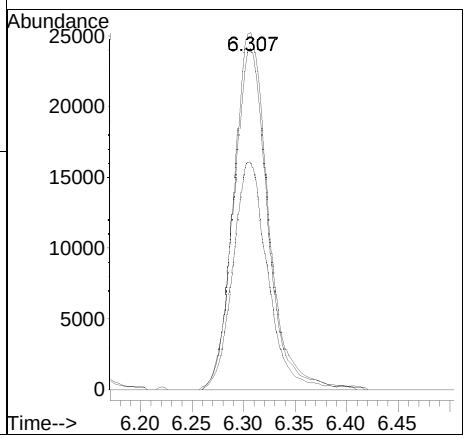


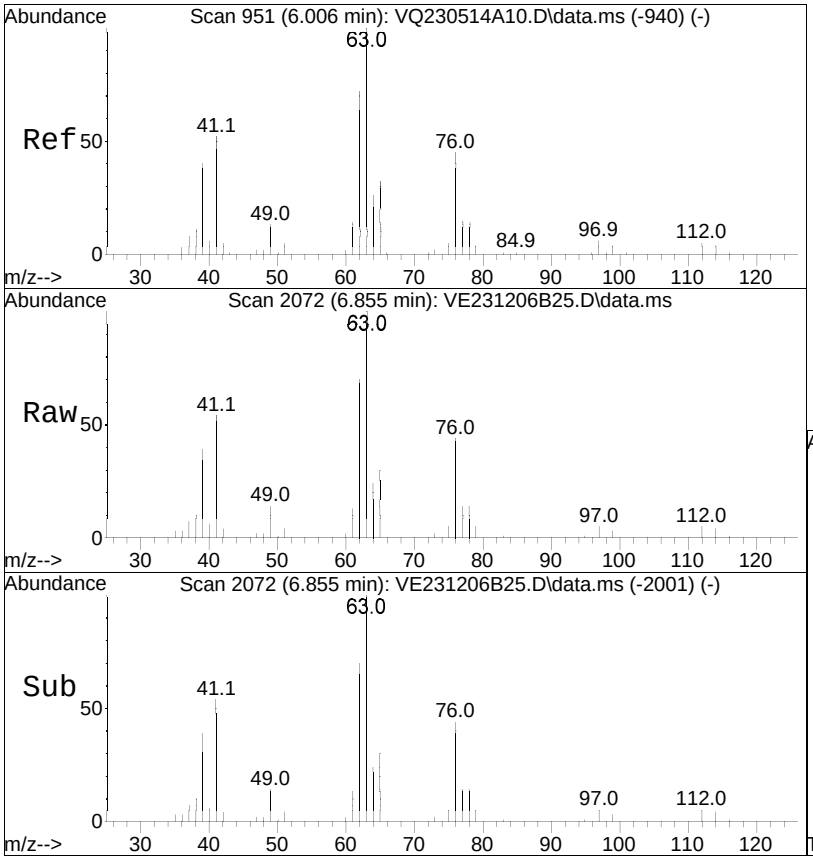


#52
Trichloroethene
Concen: 10.77 ug/L
RT: 6.307 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 95 Resp: 55654

Ion	Ratio	Lower	Upper
95	100		
97	67.8	54.2	81.4
130	105.5	81.8	122.6

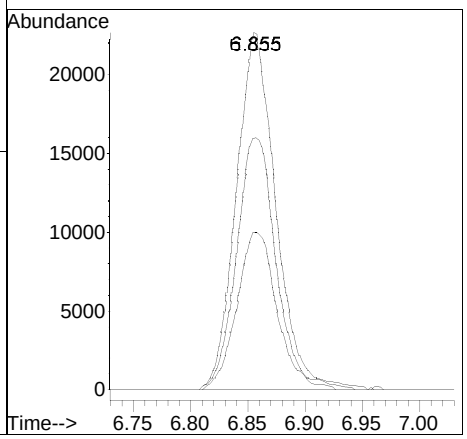


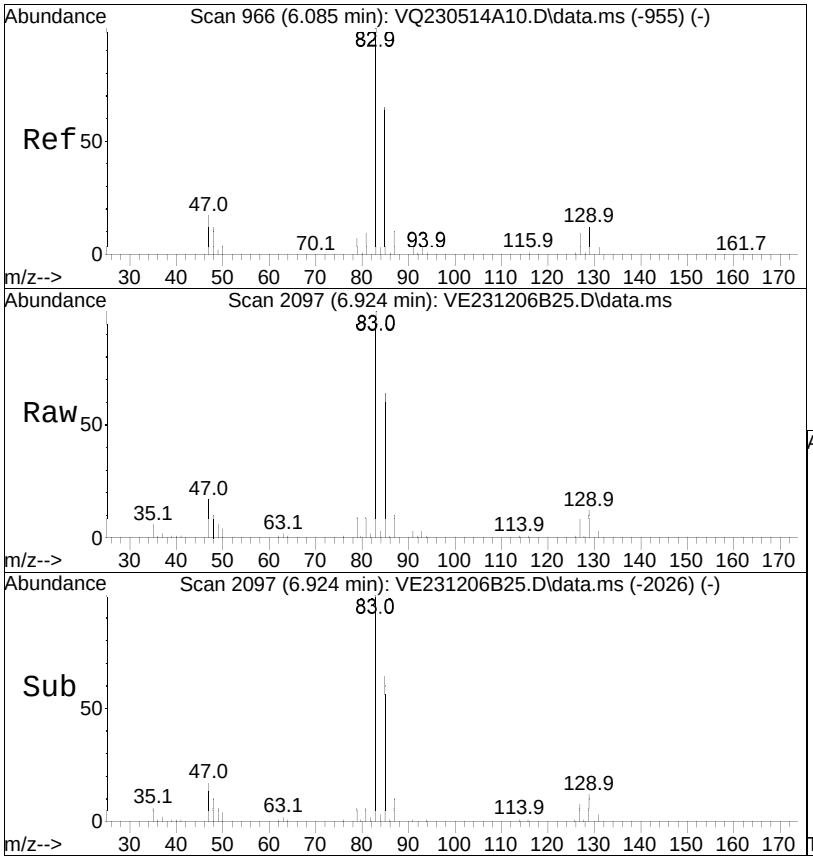


#55
1,2-Dichloropropane
Concen: 9.27 ug/L
RT: 6.855 min Scan# 2072
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 63 Resp: 54432

Ion	Ratio	Lower	Upper
63	100		
62	70.9	57.6	86.4
76	45.0	38.5	57.7

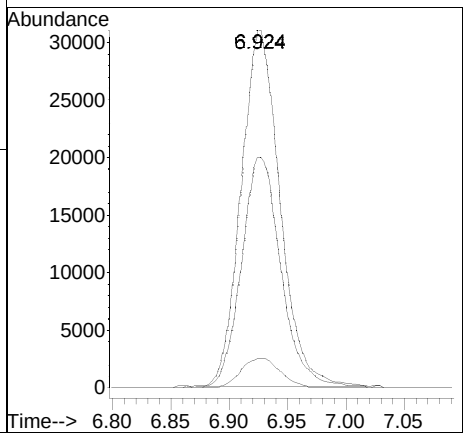


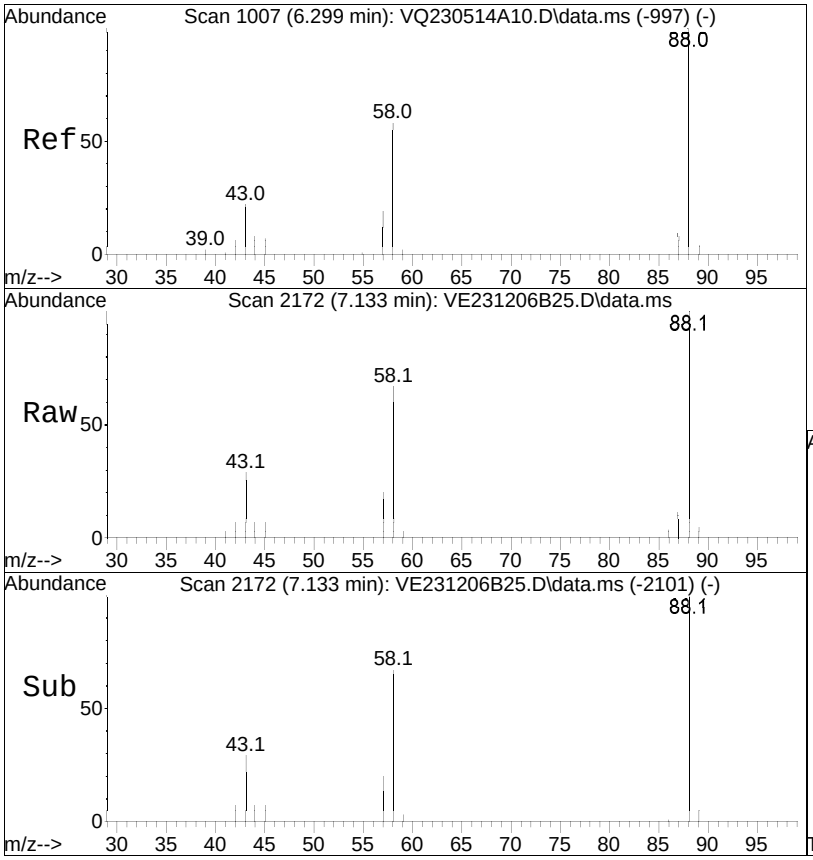


#58
Bromodichloromethane
Concen: 10.83 ug/L
RT: 6.924 min Scan# 2097
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 83 Resp: 70752

Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.4	77.2
127	8.7	6.9	10.3

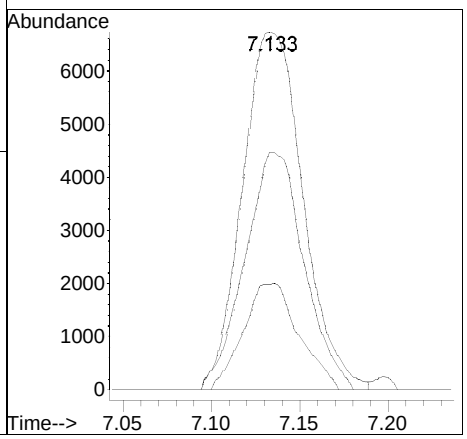


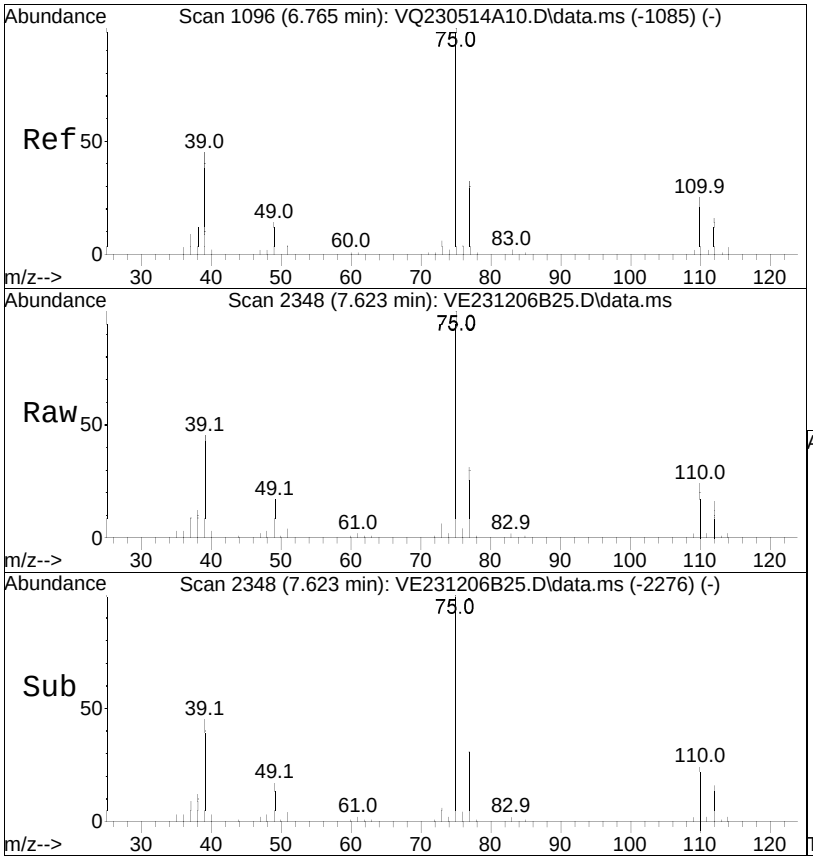


#61
1,4-Dioxane
Concen: 526.75 ug/L
RT: 7.133 min Scan# 2172
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 88 Resp: 15974

Ion	Ratio	Lower	Upper
88	100		
58	64.9	59.1	88.7
43	27.3	30.0	45.0#

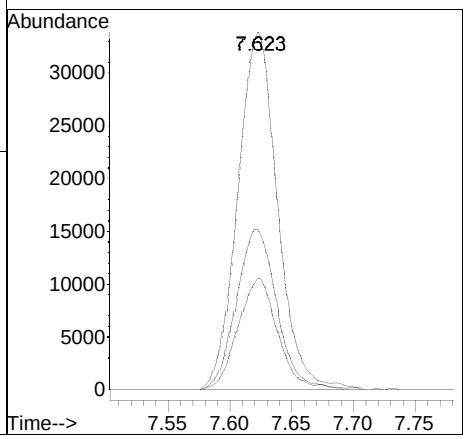


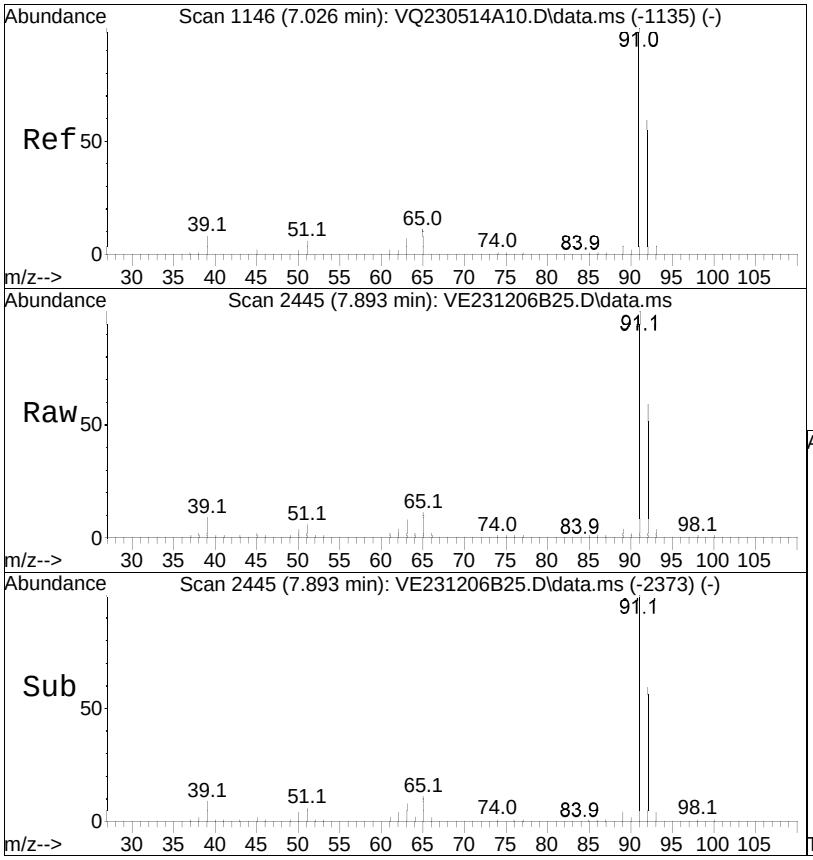


#62
cis-1,3-Dichloropropene
Concen: 9.71 ug/L
RT: 7.623 min Scan# 2348
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 75 Resp: 75328

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6
39	45.8	50.6	75.8#

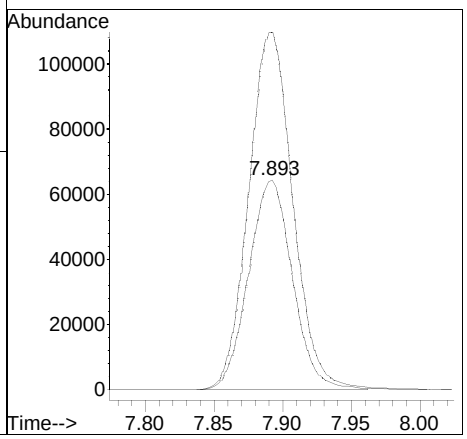


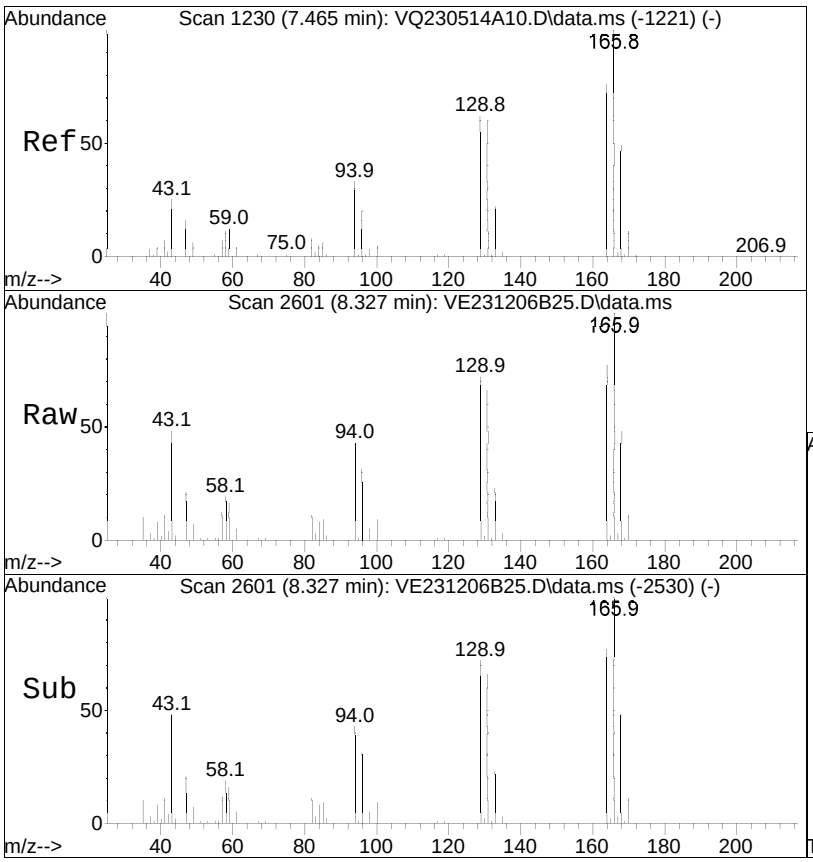


#65
Toluene
Concen: 10.67 ug/L
RT: 7.893 min Scan# 2445
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 92 Resp: 142195

Ion	Ratio	Lower	Upper
92	100		
91	170.7	135.9	203.9

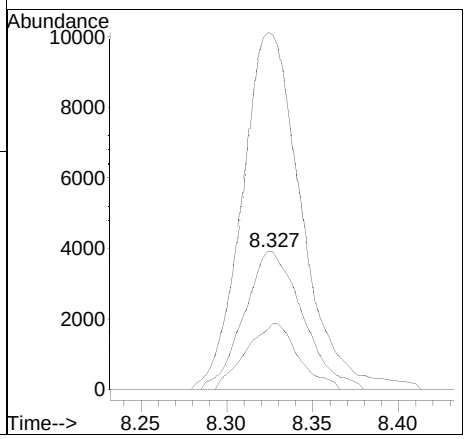


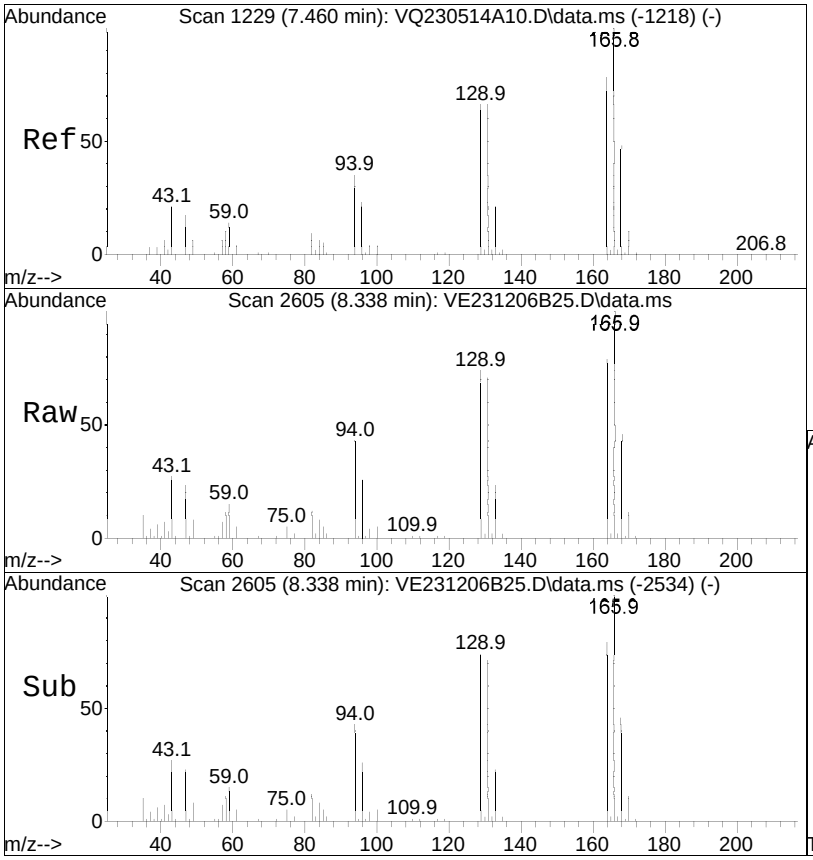


#66
4-Methyl-2-pentanone
Concen: 6.16 ug/L
RT: 8.327 min Scan# 2601
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 58 Resp: 9308

Ion	Ratio	Lower	Upper
58	100		
100	42.9	30.1	45.1
43	261.6	226.7	340.1

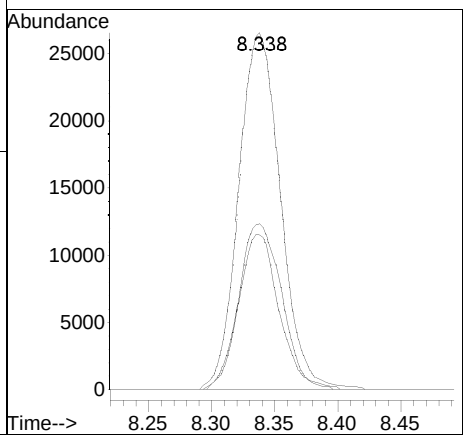


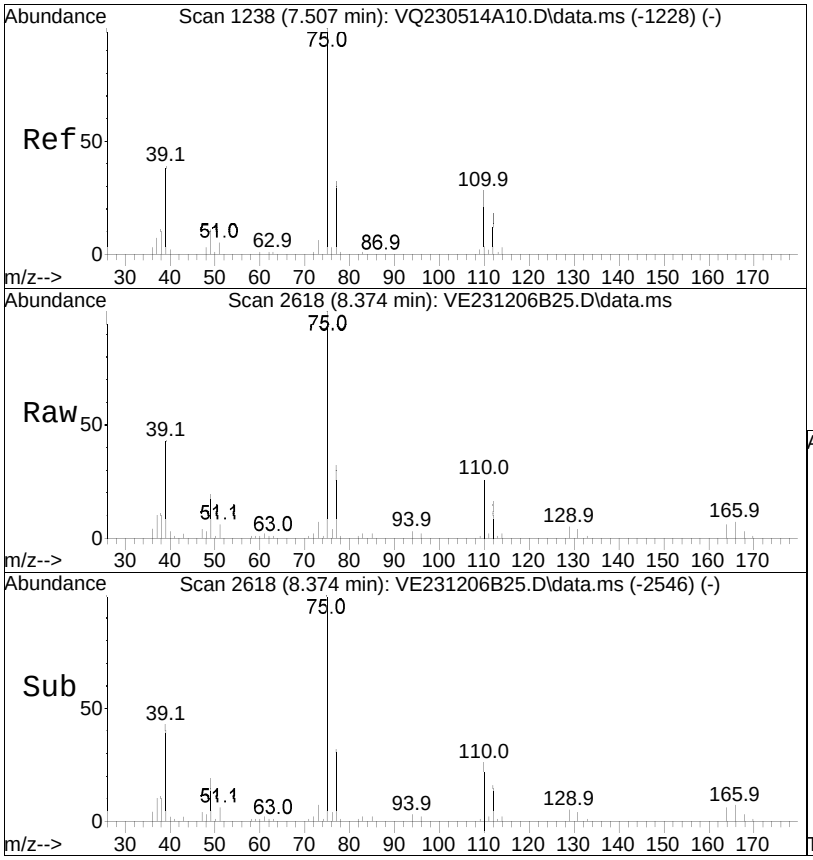


#67
Tetrachloroethene
Concen: 10.20 ug/L
RT: 8.338 min Scan# 2605
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:166 Resp: 61027

Ion	Ratio	Lower	Upper
166	100		
168	48.2	28.0	68.0
94	42.0	27.8	67.8

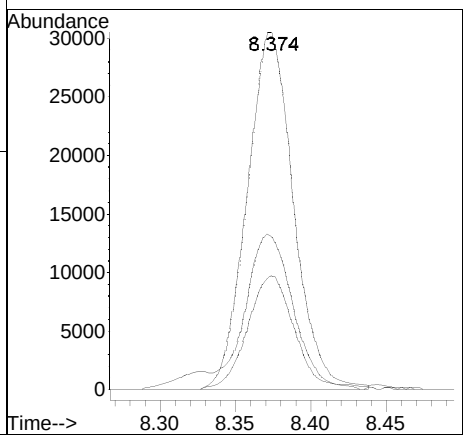


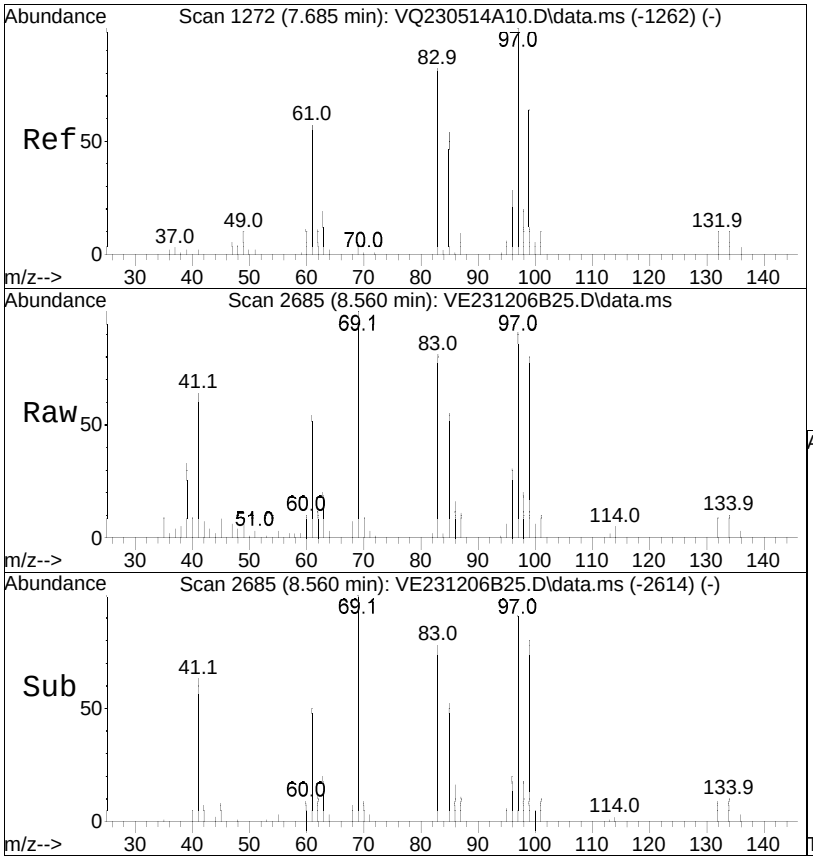


#69
trans-1,3-Dichloropropene
Concen: 9.61 ug/L
RT: 8.374 min Scan# 2618
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 75 Resp: 64850

Ion	Ratio	Lower	Upper
75	100		
77	32.2	11.4	51.4
39	45.2	44.3	84.3

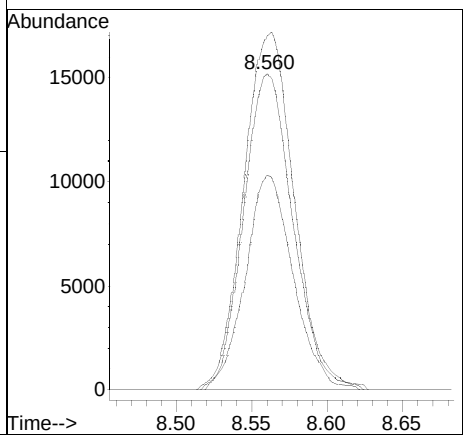


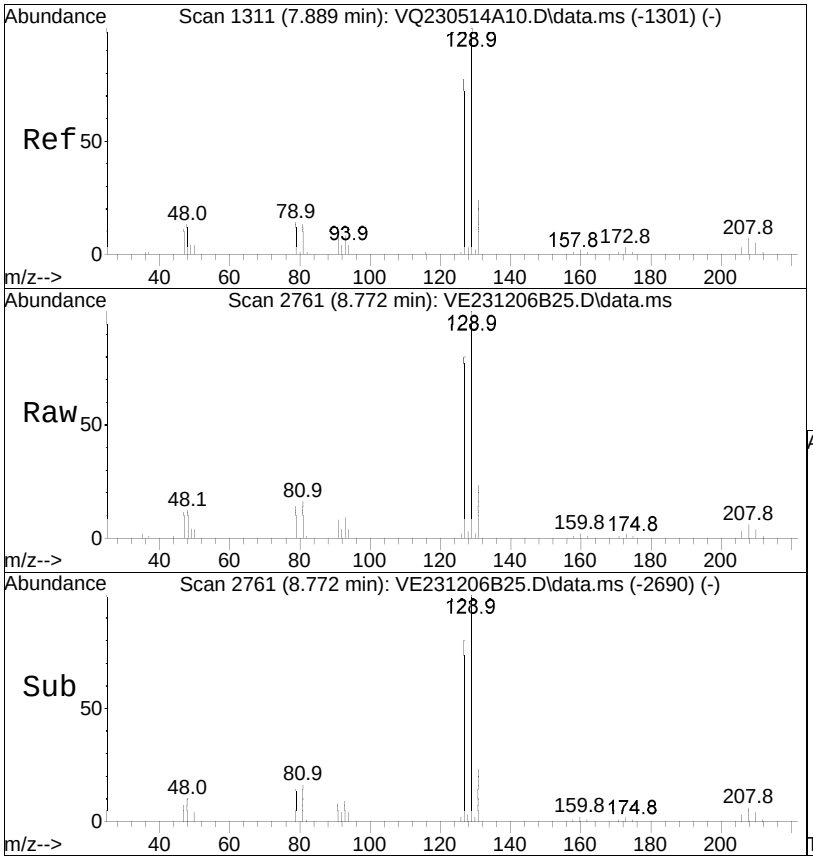


#72
1,1,2-Trichloroethane
Concen: 10.15 ug/L
RT: 8.560 min Scan# 2685
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 83 Resp: 34388

Ion	Ratio	Lower	Upper
83	100		
97	116.3	99.2	139.2
85	66.1	48.7	88.7

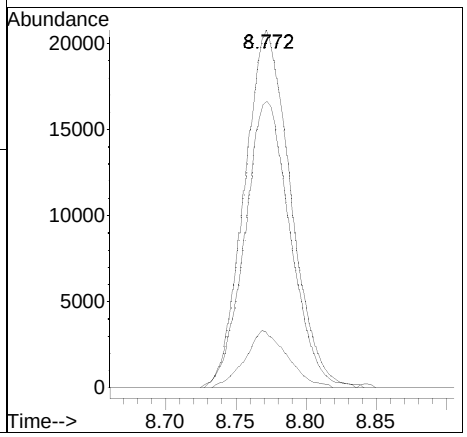


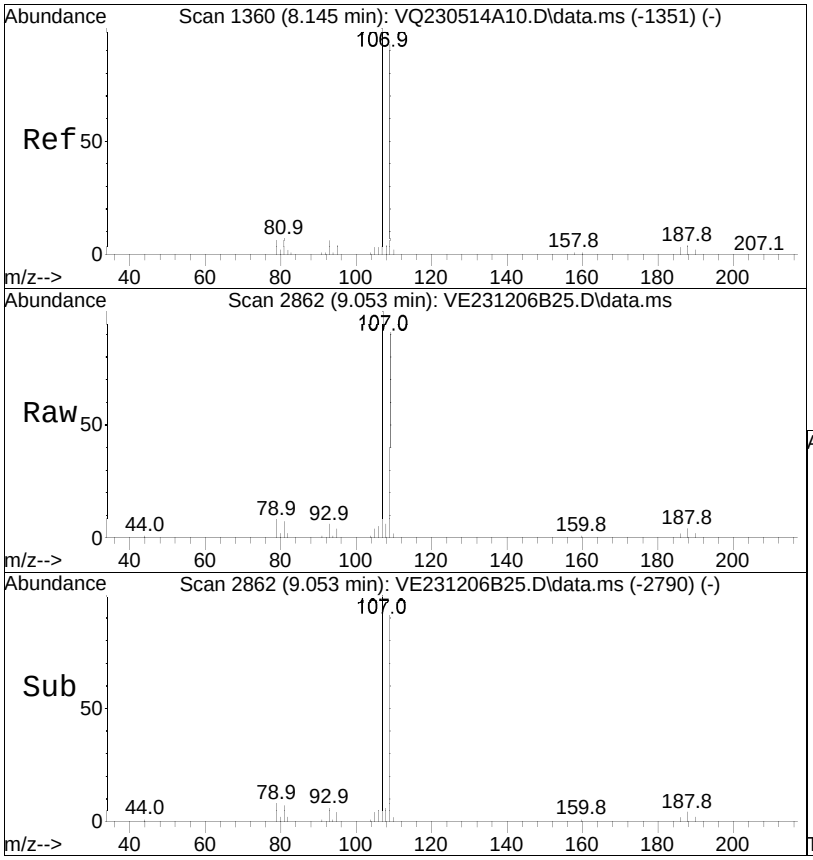


#73
Chlorodibromomethane
Concen: 9.91 ug/L
RT: 8.772 min Scan# 2761
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:129 Resp: 47393

Ion	Ratio	Lower	Upper
129	100		
81	14.7	0.0	36.2
127	78.5	58.0	98.0

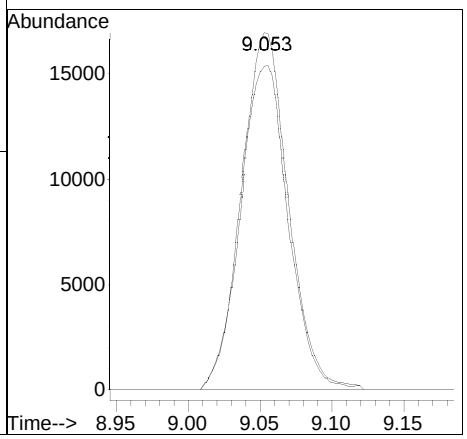


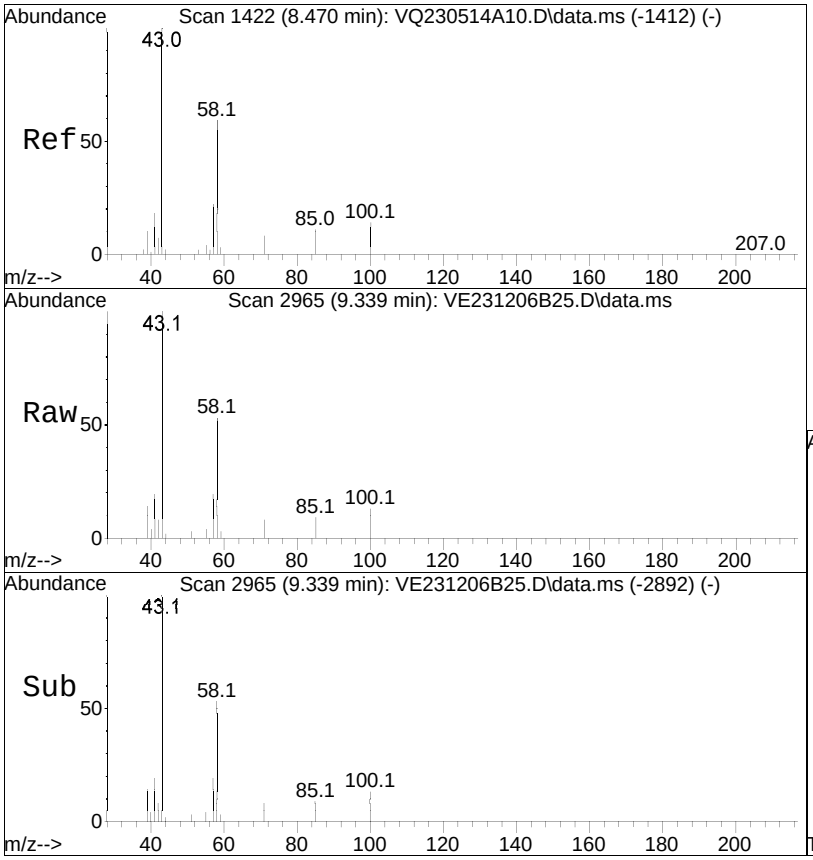


#75
1,2-Dibromoethane
Concen: 9.90 ug/L
RT: 9.053 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:107 Resp: 38582

Ion	Ratio	Lower	Upper
107	100		
109	92.3	75.7	113.5

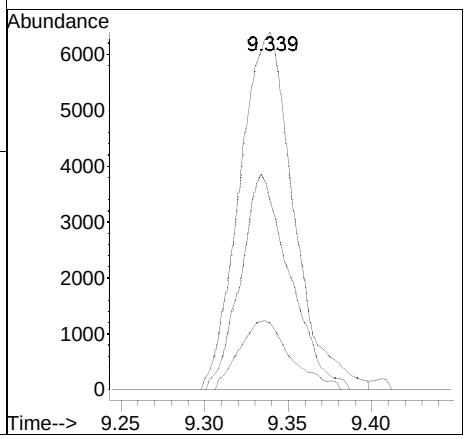


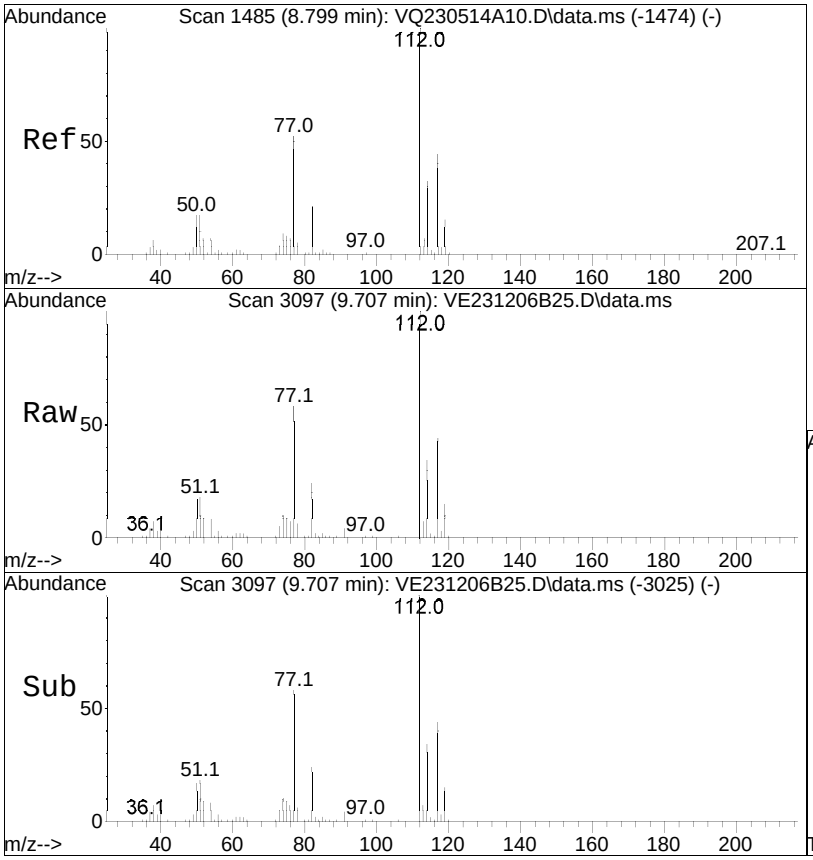


#77
2-Hexanone
Concen: 5.35 ug/L
RT: 9.339 min Scan# 2965
Delta R.T. 0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 43 Resp: 14361

Ion	Ratio	Lower	Upper
43	100		
58	55.0	38.2	57.4
57	18.5	14.1	21.1

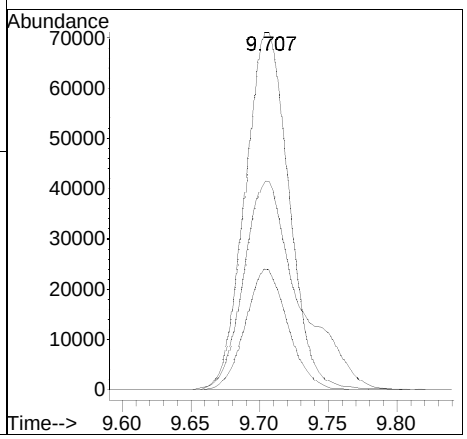


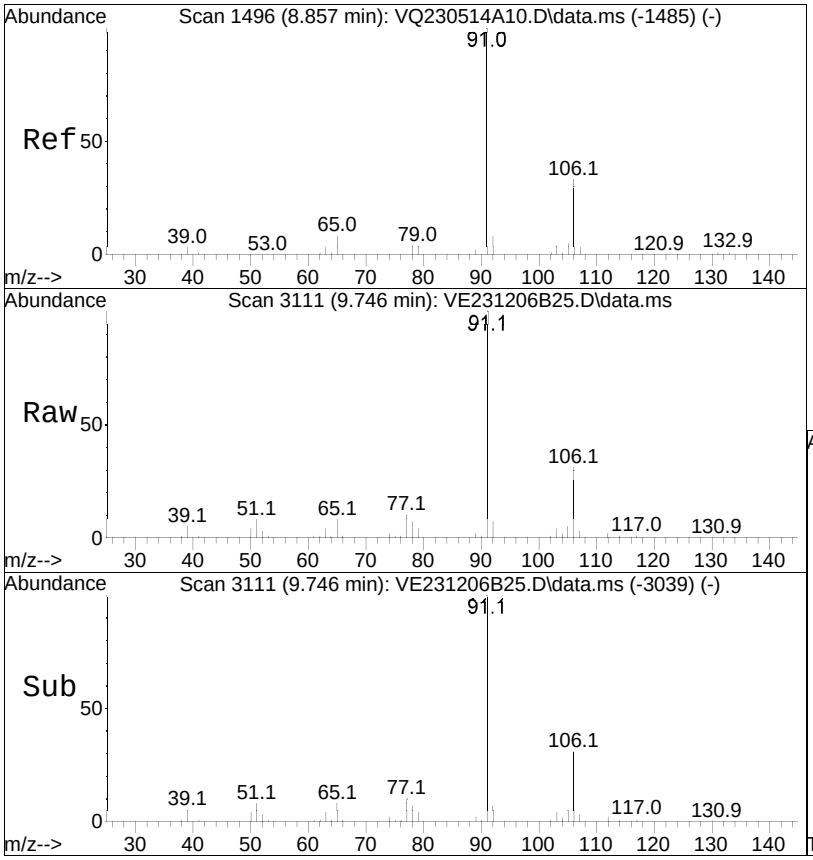


#78
Chlorobenzene
Concen: 10.75 ug/L
RT: 9.707 min Scan# 3097
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:112 Resp: 156799

Ion	Ratio	Lower	Upper
112	100		
77	73.8	50.7	76.1
114	32.8	25.6	38.4

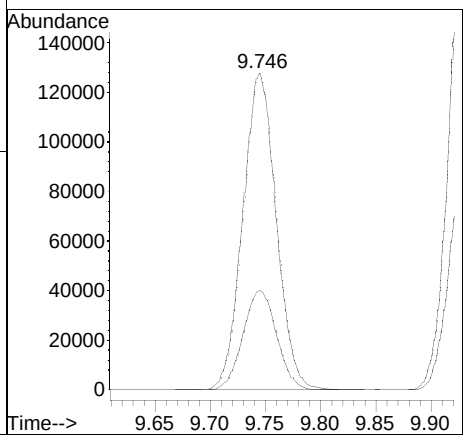


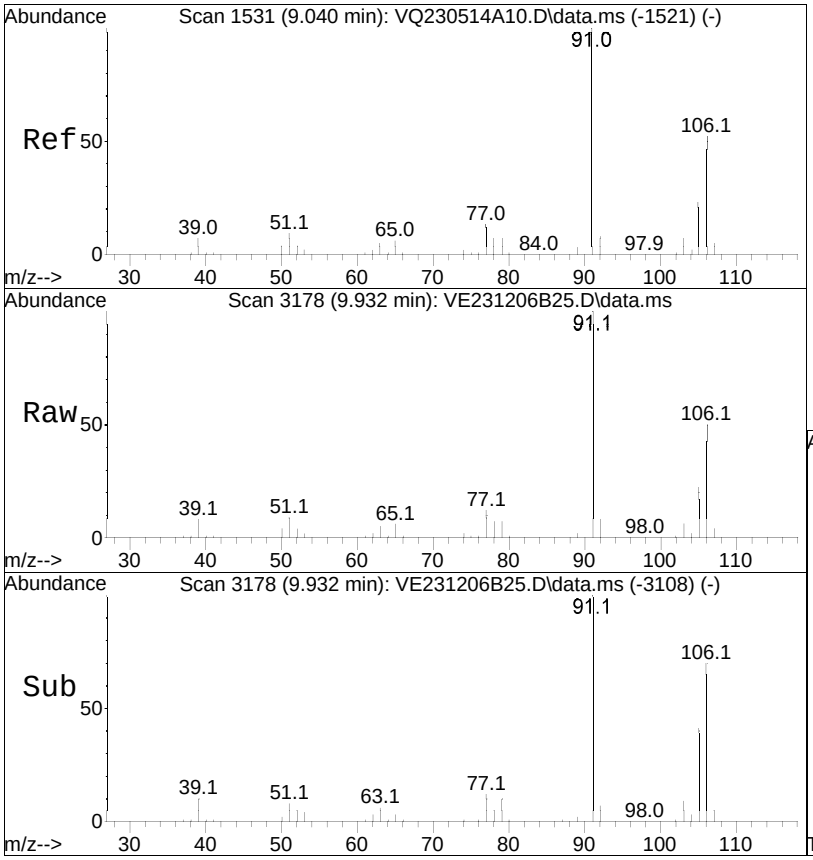


#79
Ethylbenzene
Concen: 10.53 ug/L
RT: 9.746 min Scan# 3111
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 91 Resp: 269286

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.6	36.8

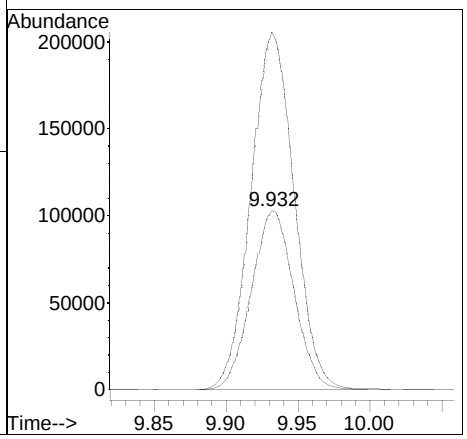


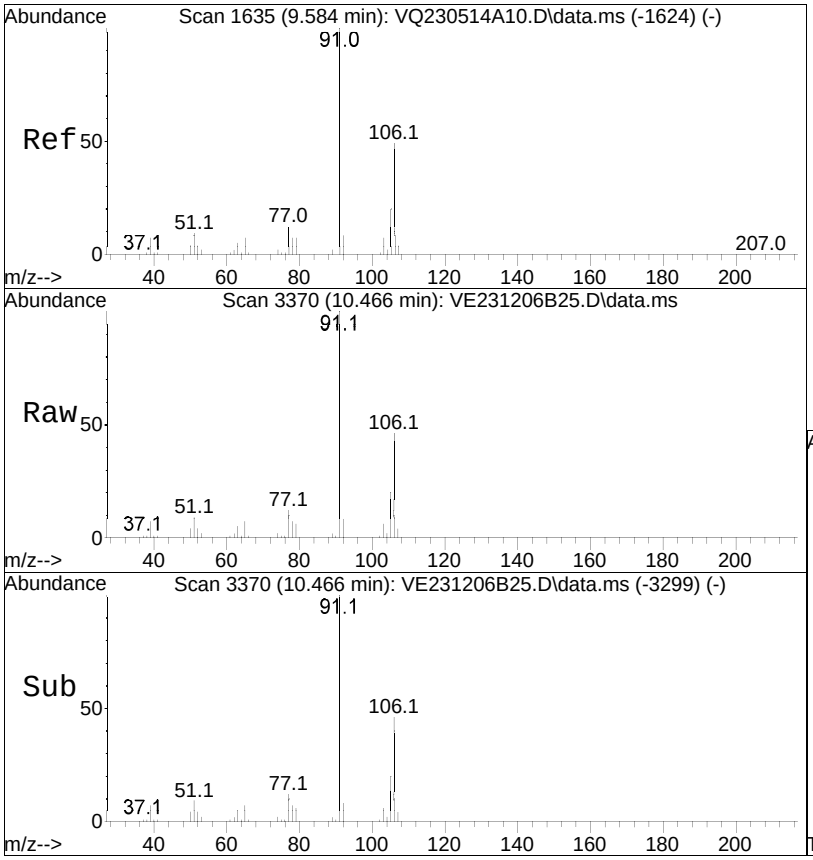


#81
p/m Xylene
Concen: 21.62 ug/L
RT: 9.932 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:106 Resp: 211381

Ion	Ratio	Lower	Upper
106	100		
91	201.4	165.5	248.3

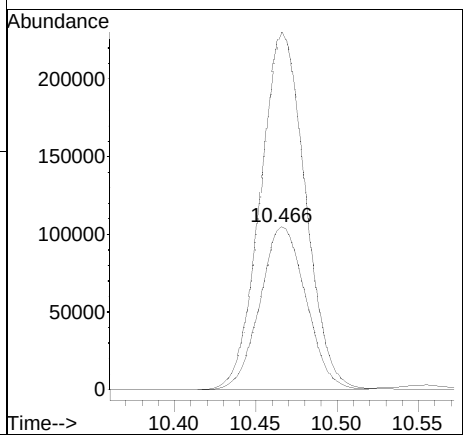


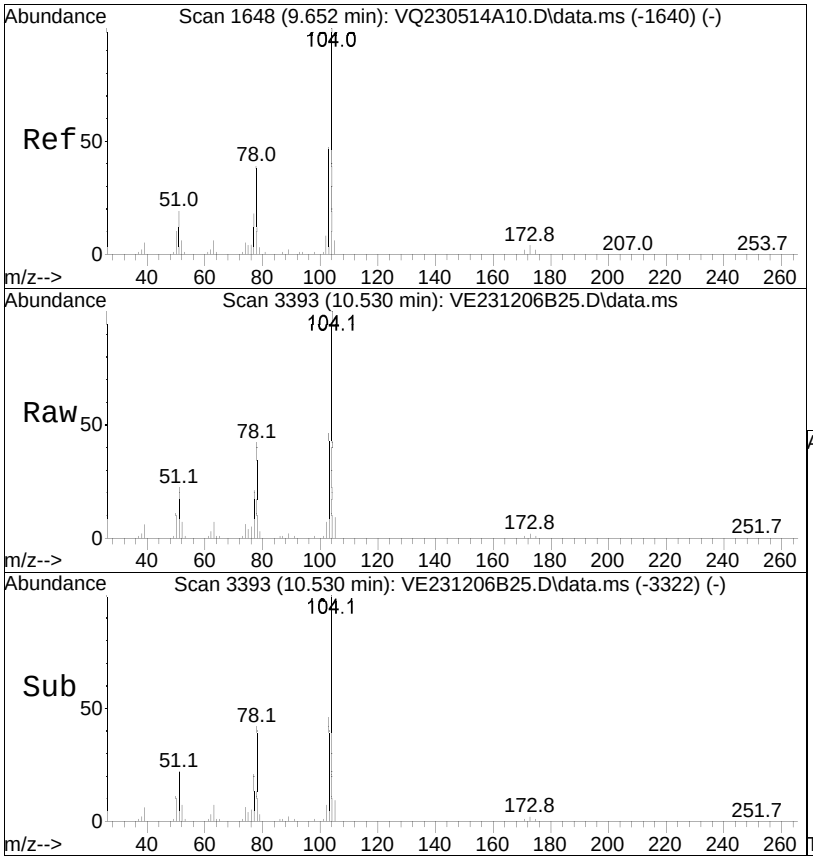


#82
o Xylene
Concen: 21.76 ug/L
RT: 10.466 min Scan# 3370
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:106 Resp: 205255

Ion	Ratio	Lower	Upper
106	100		
91	214.3	176.5	264.7

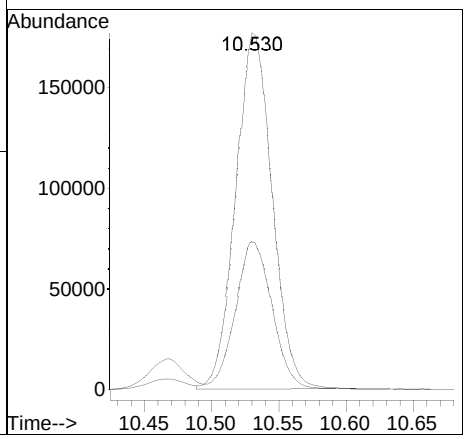


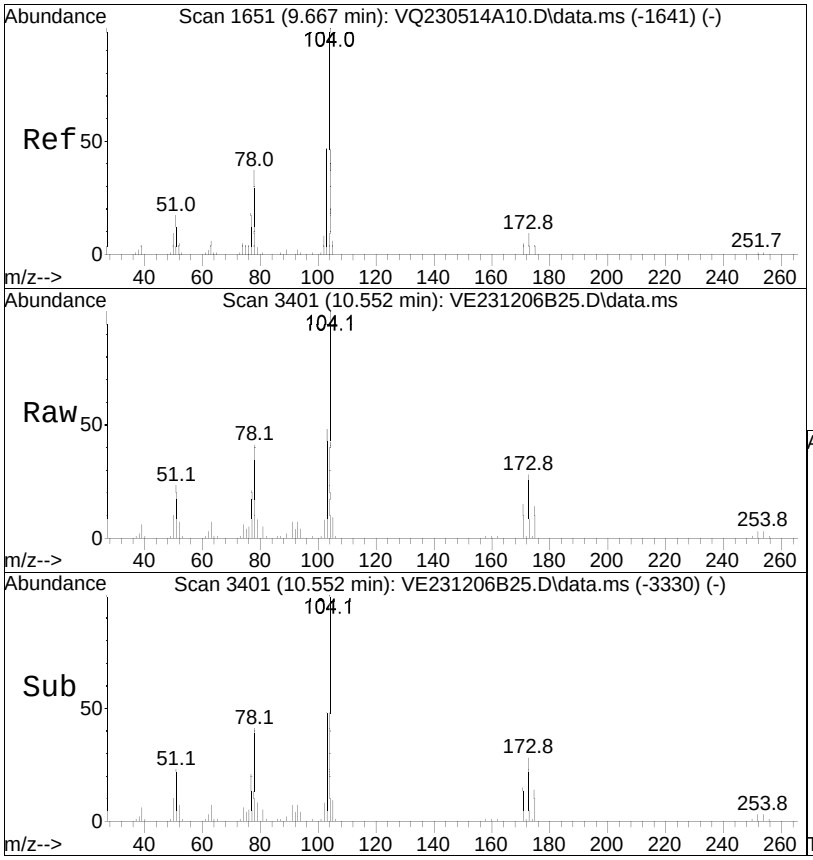


#83
Styrene
Concen: 22.28 ug/L
RT: 10.530 min Scan# 3393
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:104 Resp: 333115

Ion	Ratio	Lower	Upper
104	100		
78	42.1	37.5	56.3

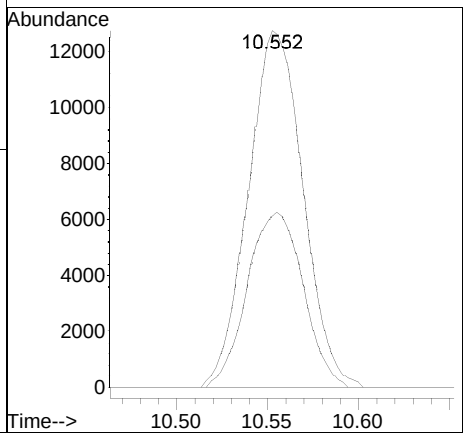


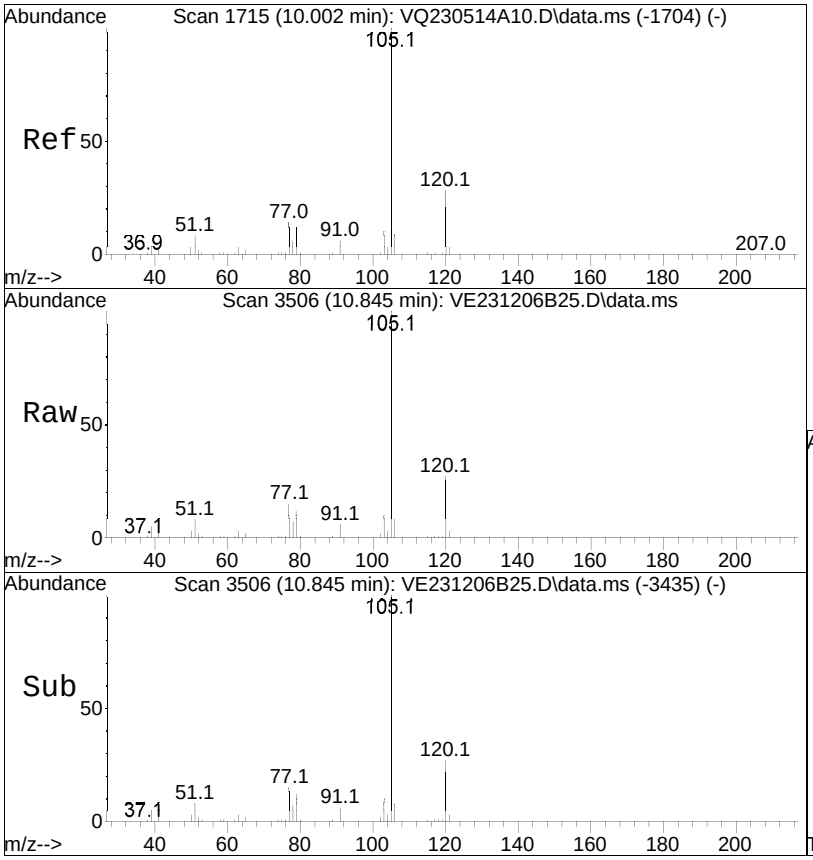


#85
Bromoform
Concen: 8.76 ug/L
RT: 10.552 min Scan# 3401
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:173 Resp: 26652

Ion	Ratio	Lower	Upper
173	100		
175	50.0	29.0	69.0

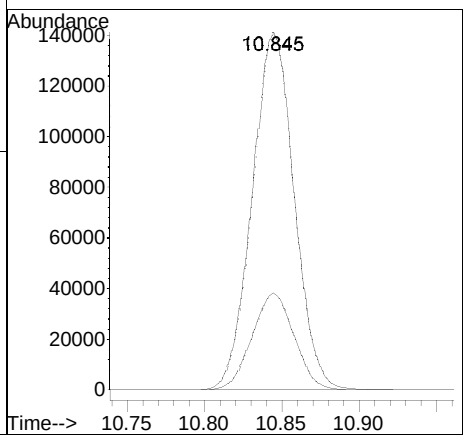


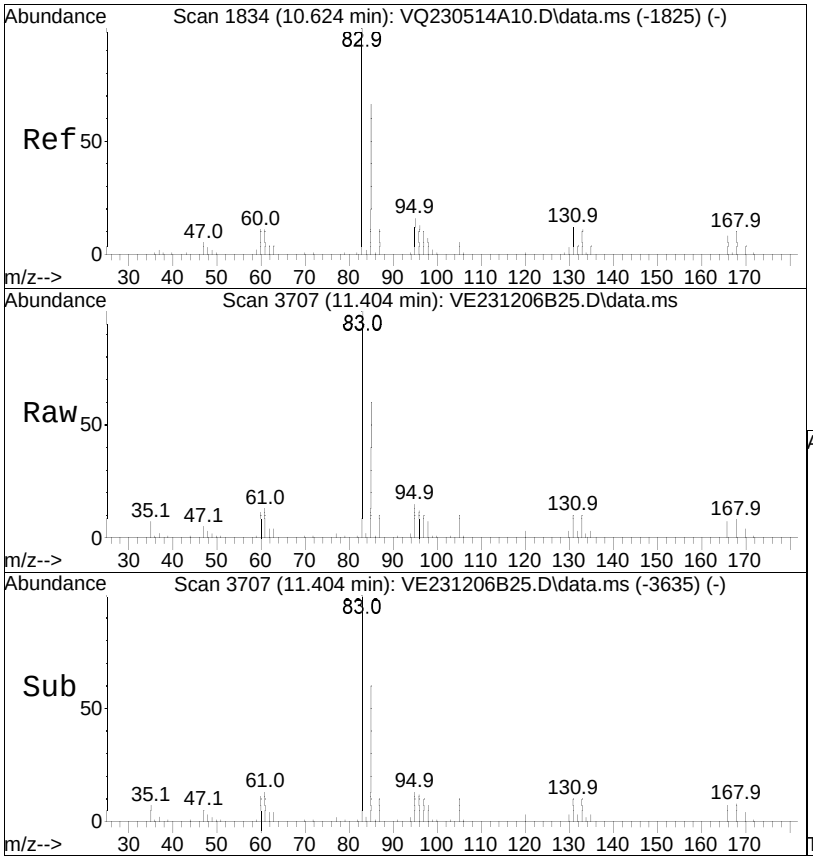


#87
Isopropylbenzene
Concen: 9.35 ug/L
RT: 10.845 min Scan# 3506
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:105 Resp: 263876

Ion	Ratio	Lower	Upper
105	100		
120	27.1	6.5	46.5

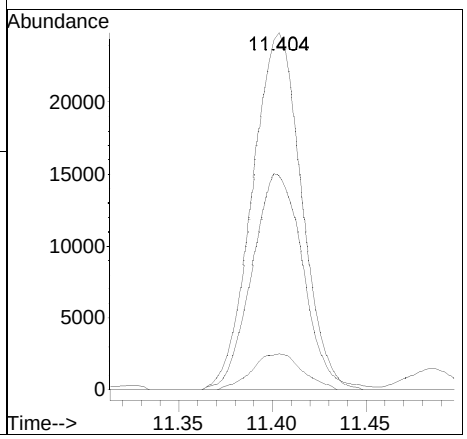


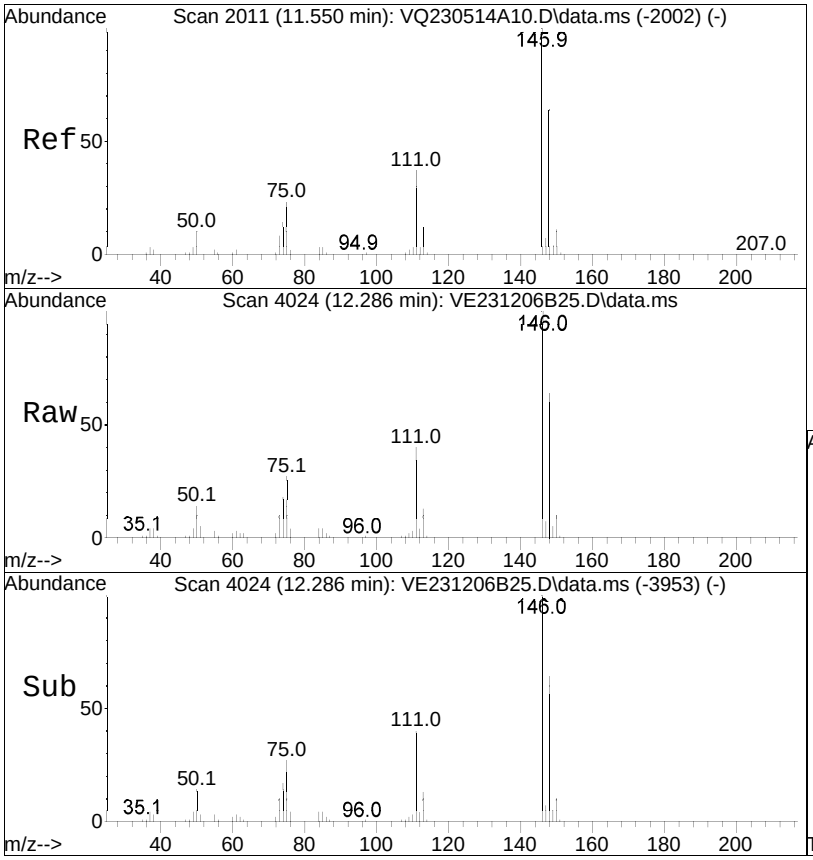


#92
1,1,2,2-Tetrachloroethane
Concen: 10.12 ug/L
RT: 11.404 min Scan# 3707
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion: 83 Resp: 45296

Ion	Ratio	Lower	Upper
83	100		
131	10.5	0.0	31.0
85	63.1	45.4	85.4

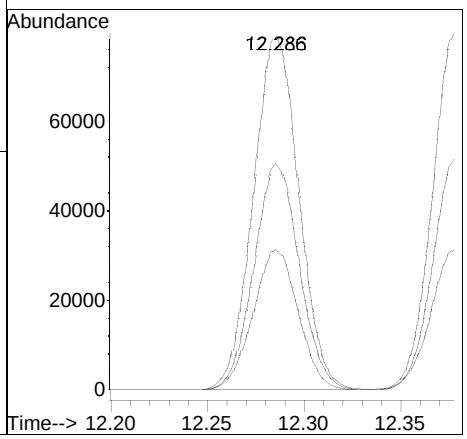


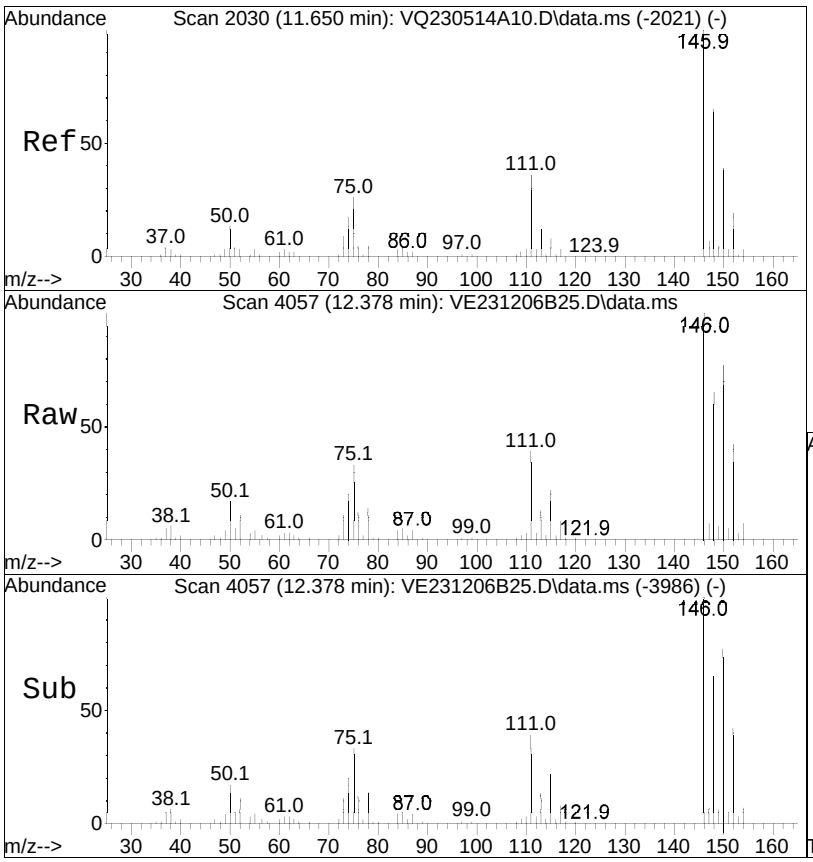


#105
1,3-Dichlorobenzene
Concen: 9.73 ug/L
RT: 12.286 min Scan# 4024
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:146 Resp: 129575

Ion	Ratio	Lower	Upper
146	100		
111	39.3	27.0	56.0
148	63.7	41.2	85.6

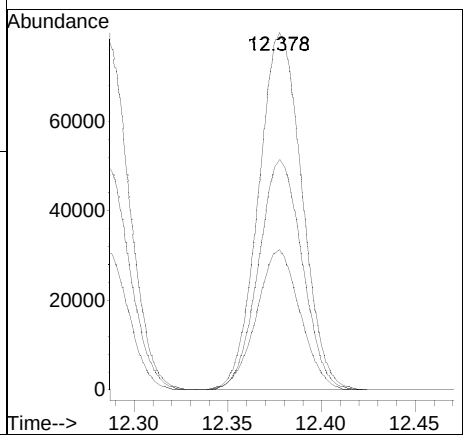


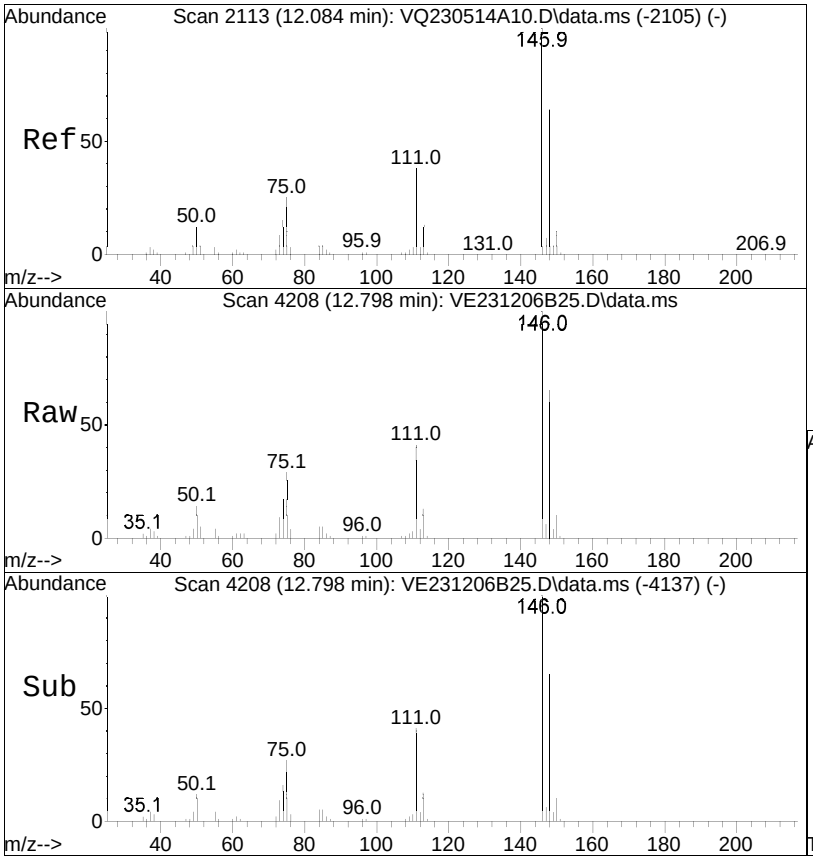


#106
1,4-Dichlorobenzene
Concen: 9.67 ug/L
RT: 12.378 min Scan# 4057
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:146 Resp: 128968

Ion	Ratio	Lower	Upper
146	100		
111	39.4	32.3	48.5
148	64.6	51.0	76.6

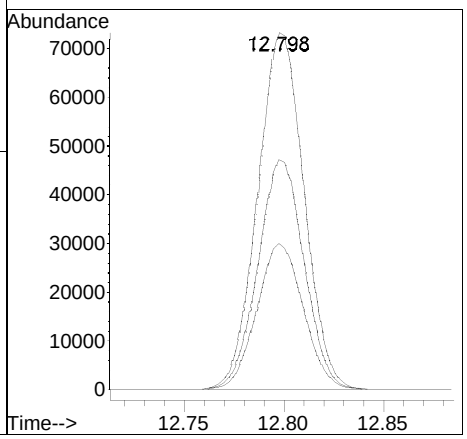


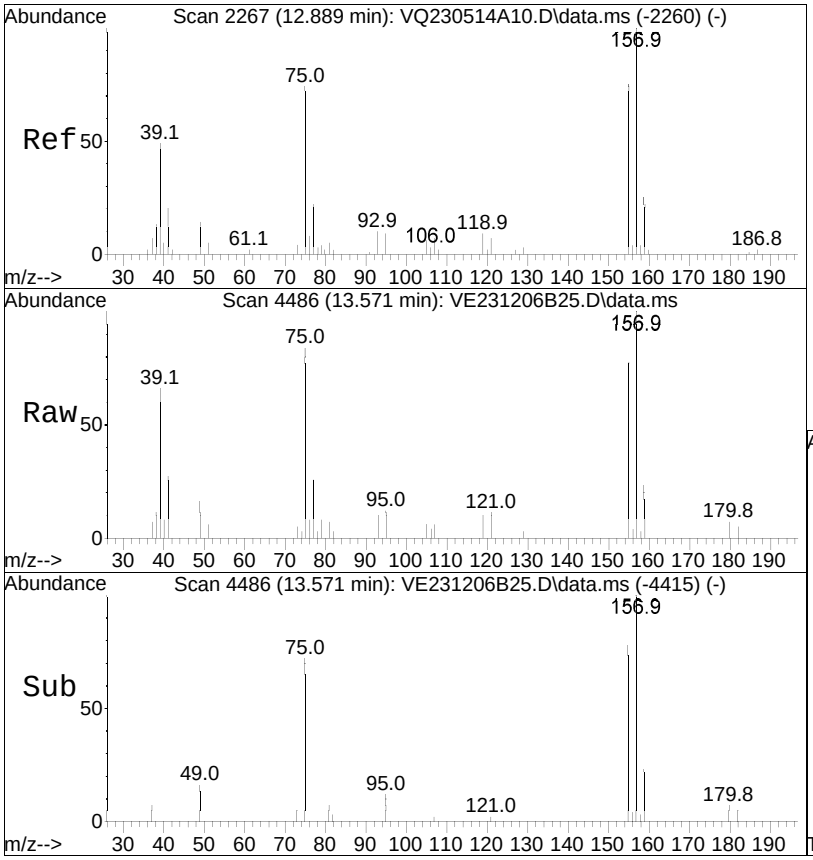


#109
1,2-Dichlorobenzene
Concen: 9.51 ug/L
RT: 12.798 min Scan# 4208
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:146 Resp: 117495

Ion	Ratio	Lower	Upper
146	100		
111	41.2	27.7	57.5
148	64.3	41.3	85.7

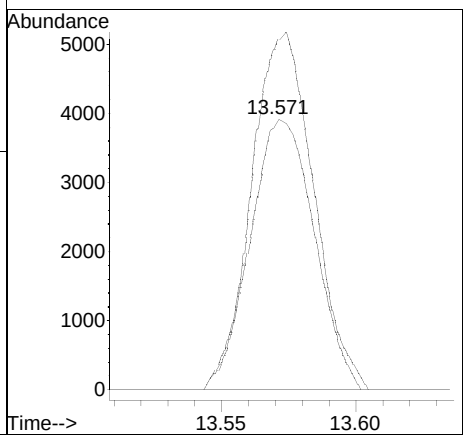


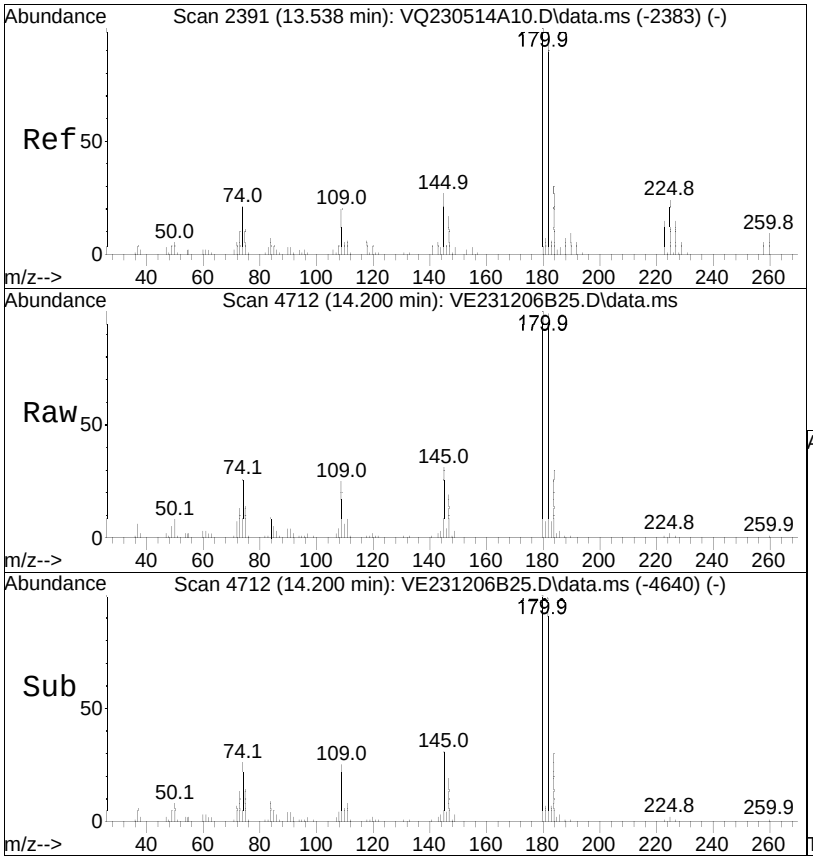


#111
1,2-Dibromo-3-chloropropane
Concen: 9.07 ug/L
RT: 13.571 min Scan# 4486
Delta R.T. -0.003 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:155 Resp: 6453

Ion	Ratio	Lower	Upper
155	100		
157	127.9	100.1	150.1

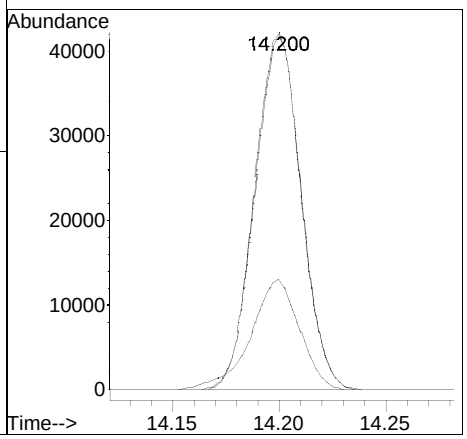


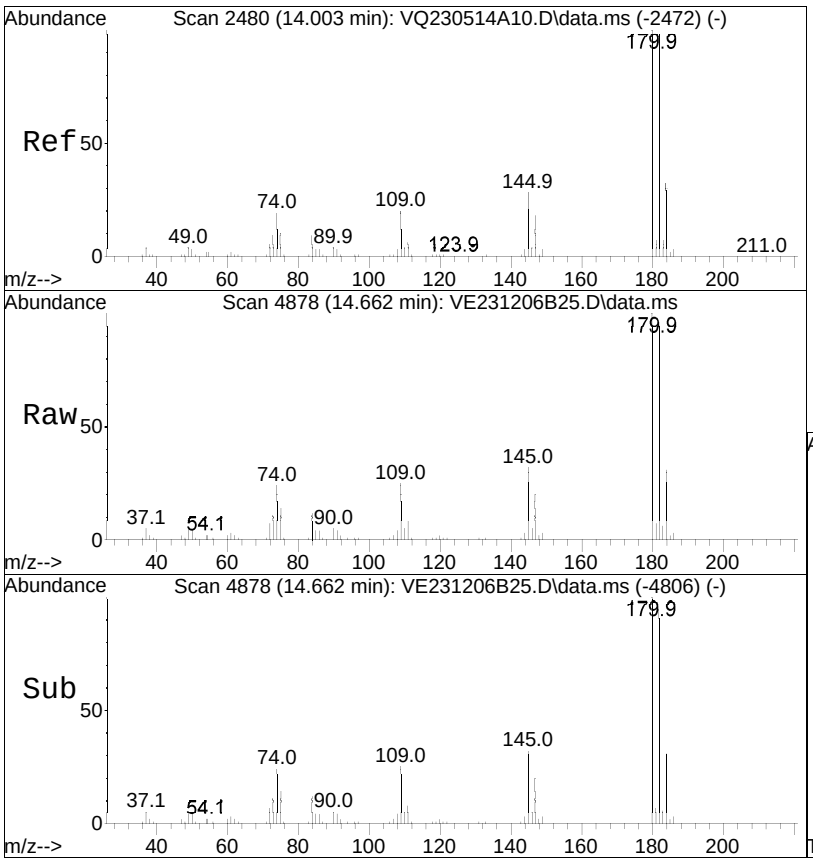


#114
1,2,4-Trichlorobenzene
Concen: 8.45 ug/L
RT: 14.200 min Scan# 4712
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:180 Resp: 63554

Ion	Ratio	Lower	Upper
180	100		
182	98.0	76.0	114.0
145	32.5	28.4	42.6

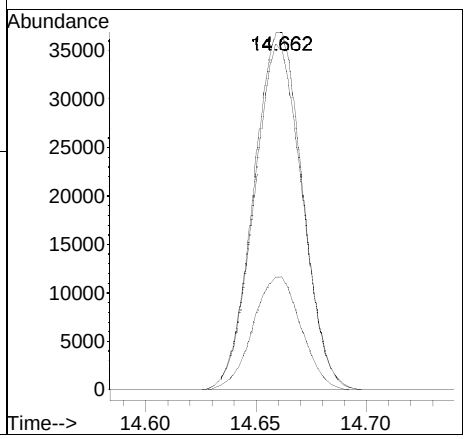




#116
1,2,3-Trichlorobenzene
Concen: 8.60 ug/L
RT: 14.662 min Scan# 4878
Delta R.T. -0.000 min
Lab File: VE231206B25.D
Acq: 6 Dec 2023 7:08 pm

Tgt Ion:180 Resp: 56358

Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.5	114.7
145	31.3	26.6	39.8



Manual Integration Report

Data Path	: K:\Elaine\2023\231206B\	QMethod	: Elaine_231127N_8260.m
Data File	: VE231206B25.D	Operator	: ELAINE:MJV
Date Inj'd	: 12/6/2023 7:08 pm	Instrument	: Elaine
Sample	: WG1860843-6,31,10,10,,A1	Quant Date	: 12/6/2023 8:22 pm

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

Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B26.D
Acq On : 6 Dec 2023 7:33 pm
Operator : ELAINE:MJV
Sample : WG1860843-7,31,10,10,,A2
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 20:22:15 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.129	96	264500	10.000	ug/L	0.00
Standard Area 1 = 322183			Recovery = 82.10%			
63) Chlorobenzene-d5	9.684	117	241138	10.000	ug/L	0.00
Standard Area 1 = 290149			Recovery = 83.11%			
84) 1,4-Dichlorobenzene-d4	12.364	152	144490	10.000	ug/L	0.00
Standard Area 1 = 168478			Recovery = 85.76%			
System Monitoring Compounds						
39) Dibromofluoromethane	5.308	113	69452	10.519	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.19%			
47) 1,2-Dichloroethane-d4	5.842	65	69536	9.325	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.25%			
64) Toluene-d8	7.831	98	269796	9.746	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.46%			
88) 4-Bromofluorobenzene	11.162	95	100233	9.170	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.658	85	43375	6.614	ug/L	97
3) Chloromethane	1.852	50	49816	6.640	ug/L	99
4) Vinyl chloride	1.933	62	58024	8.517	ug/L	98
5) Bromomethane	2.250	94	23839	11.213	ug/L	99
6) Chloroethane	2.375	64	35103	10.058	ug/L	94
7) Trichlorofluoromethane	2.517	101	86055	12.440	ug/L	100
10) 1,1-Dichloroethene	3.018	96	52829	11.961	ug/L	81
11) Carbon disulfide	3.049	76	159918	11.421	ug/L	98
12) Freon-113	3.060	101	57993	11.805	ug/L	97
15) Methylene chloride	3.588	84	59571	10.803	ug/L	89
17) Acetone	3.625	43	8997	6.834	ug/L #	82
18) trans-1,2-Dichloroethene	3.741	96	52478	10.659	ug/L	89
19) Methyl acetate	3.747	43	20654	6.648	ug/L	98
21) Methyl tert-butyl ether	3.844	73	118423	9.902	ug/L	96
25) 1,1-Dichloroethane	4.337	63	109222	10.279	ug/L	99
30) cis-1,2-Dichloroethene	4.863	96	64194	11.364	ug/L	85
33) Bromochloromethane	5.058	128	29783	12.127	ug/L	88
34) Cyclohexane	5.063	56	94482	7.856	ug/L	92
35) Chloroform	5.130	83	116623	13.026	ug/L	95
37) Carbon tetrachloride	5.266	117	82520	12.308	ug/L	96

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B26.D
Acq On : 6 Dec 2023 7:33 pm
Operator : ELAINE:MJV
Sample : WG1860843-7,31,10,10,,A2
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 20:22:15 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\Elaine\2023\231206B\VE231206B02.D
Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40)	1,1,1-Trichloroethane	5.336	97	95764	11.917	ug/L		94
42)	2-Butanone	5.422	43	11636	6.192	ug/L		93
45)	Benzene	5.706	78	236034	11.303	ug/L		94
48)	1,2-Dichloroethane	5.912	62	64146	9.276	ug/L		96
51)	Methyl cyclohexane	6.298	83	87460	9.537	ug/L		88
52)	Trichloroethene	6.307	95	56723	10.676	ug/L		97
55)	1,2-Dichloropropane	6.858	63	55479	9.189	ug/L		96
58)	Bromodichloromethane	6.927	83	73738	10.979	ug/L		99
61)	1,4-Dioxane	7.133	88	16841	540.049	ug/L	#	88
62)	cis-1,3-Dichloropropene	7.623	75	78100	9.793	ug/L	#	85
65)	Toluene	7.893	92	148066	10.799	ug/L		99
66)	4-Methyl-2-pentanone	8.327	58	9852	6.338	ug/L		86
67)	Tetrachloroethene	8.338	166	64382	10.463	ug/L		96
69)	trans-1,3-Dichloropropene	8.374	75	67275	9.694	ug/L		86
72)	1,1,2-Trichloroethane	8.560	83	35111	10.074	ug/L		98
73)	Chlorodibromomethane	8.775	129	48418	9.845	ug/L		99
75)	1,2-Dibromoethane	9.053	107	38981	9.726	ug/L		100
77)	2-Hexanone	9.334	43	15612	5.650	ug/L		95
78)	Chlorobenzene	9.704	112	160941	10.721	ug/L		90
79)	Ethylbenzene	9.746	91	279588	10.626	ug/L		98
81)	p/m Xylene	9.932	106	222177	22.090	ug/L		94
82)	o Xylene	10.466	106	214961	22.148	ug/L		94
83)	Styrene	10.530	104	342392	22.264	ug/L		92
85)	Bromoform	10.555	173	27054	8.901	ug/L		99
87)	Isopropylbenzene	10.845	105	279473	9.918	ug/L		99
92)	1,1,2,2-Tetrachloroethane	11.401	83	46663	10.437	ug/L		99
105)	1,3-Dichlorobenzene	12.286	146	134959	10.148	ug/L		98
106)	1,4-Dichlorobenzene	12.378	146	133166	9.994	ug/L		98
109)	1,2-Dichlorobenzene	12.798	146	124035	10.055	ug/L		98
111)	1,2-Dibromo-3-chloropr...	13.574	155	6557	9.228	ug/L		98
114)	1,2,4-Trichlorobenzene	14.200	180	67363	8.968	ug/L		98
116)	1,2,3-Trichlorobenzene	14.659	180	59833	9.141	ug/L		98

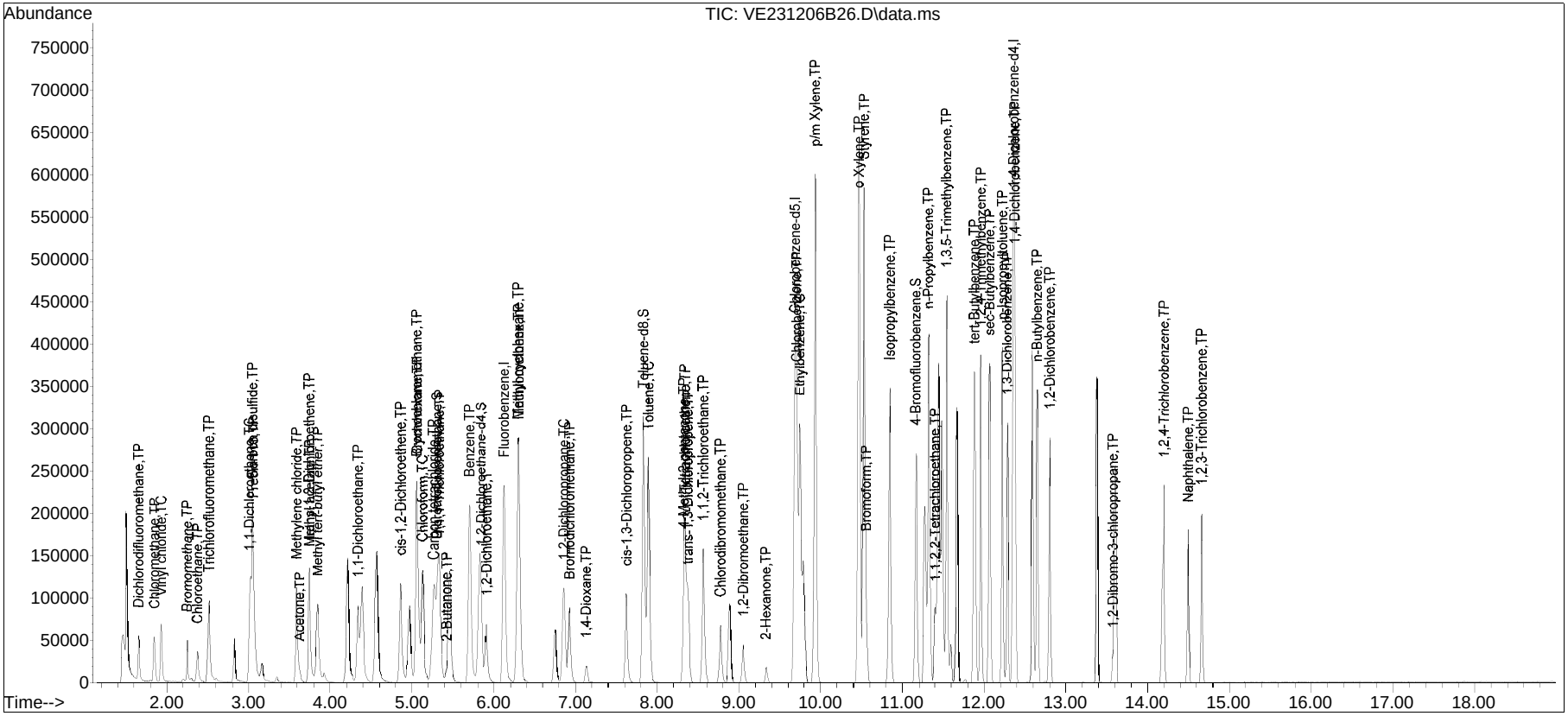
(#) = qualifier out of range (m) = manual integration (+) = signals summed

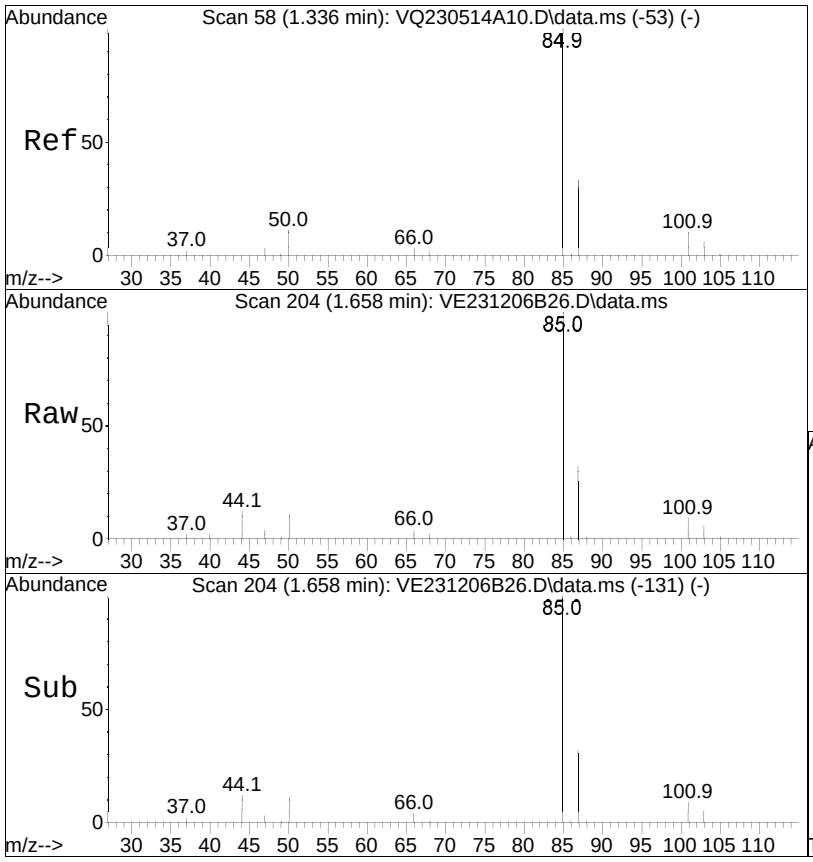
Quantitation Report (QT Reviewed)

Data Path : K:\Elaine\2023\231206B\
Data File : VE231206B26.D
Acq On : 6 Dec 2023 7:33 pm
Operator : ELAINE:MJV
Sample : WG1860843-7,31,10,10,,A2
Misc : WG1860843,ICAL20595
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 20:22:15 2023
Quant Method : K:\Elaine\2023\231206B\Elaine_231127N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Nov 28 12:13:41 2023
Response via : Initial Calibration

Sub List : 8260-NY_R2 - NYSOM01.2 + NYSTARS206B02.D•

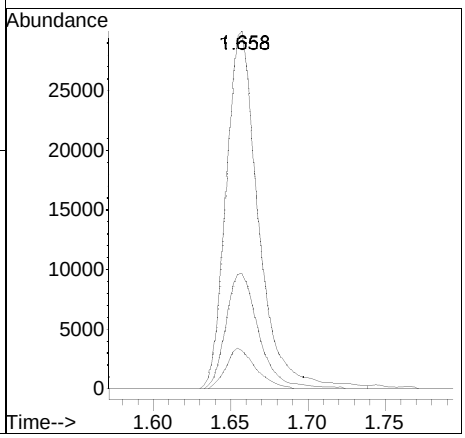


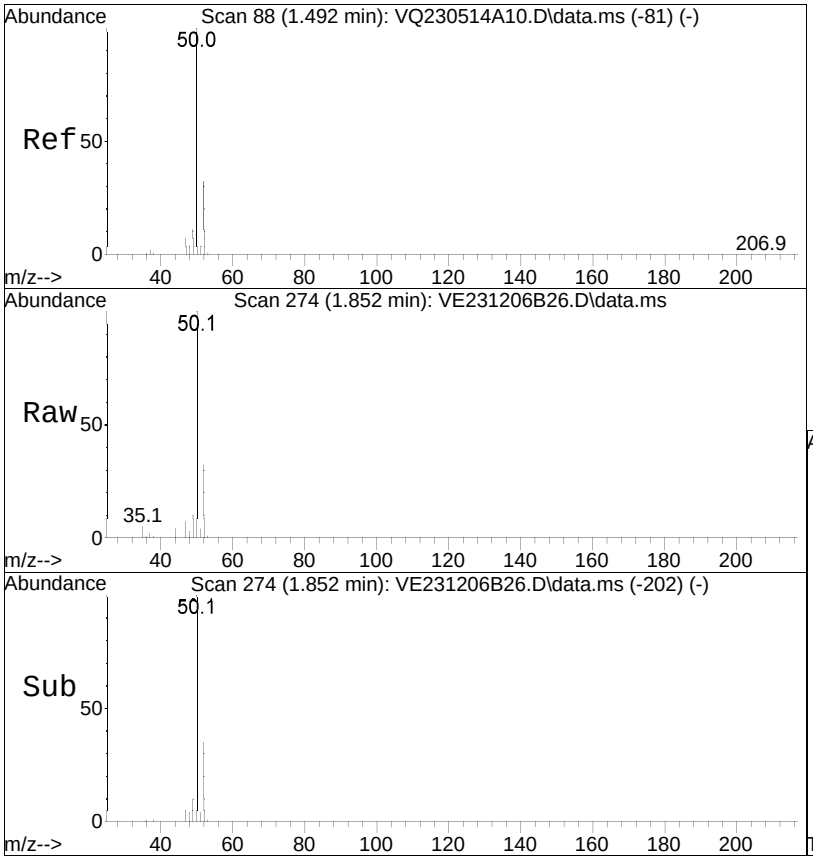


#2
Dichlorodifluoromethane
Concen: 6.61 ug/L
RT: 1.658 min Scan# 204
Delta R.T. 0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 85 Resp: 43375

Ion	Ratio	Lower	Upper
85	100		
87	33.0	20.9	43.5
50	10.6	8.6	18.0

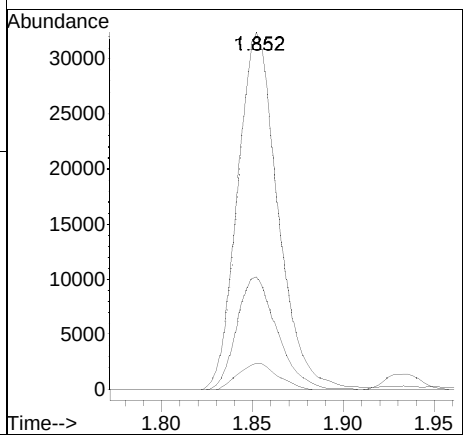


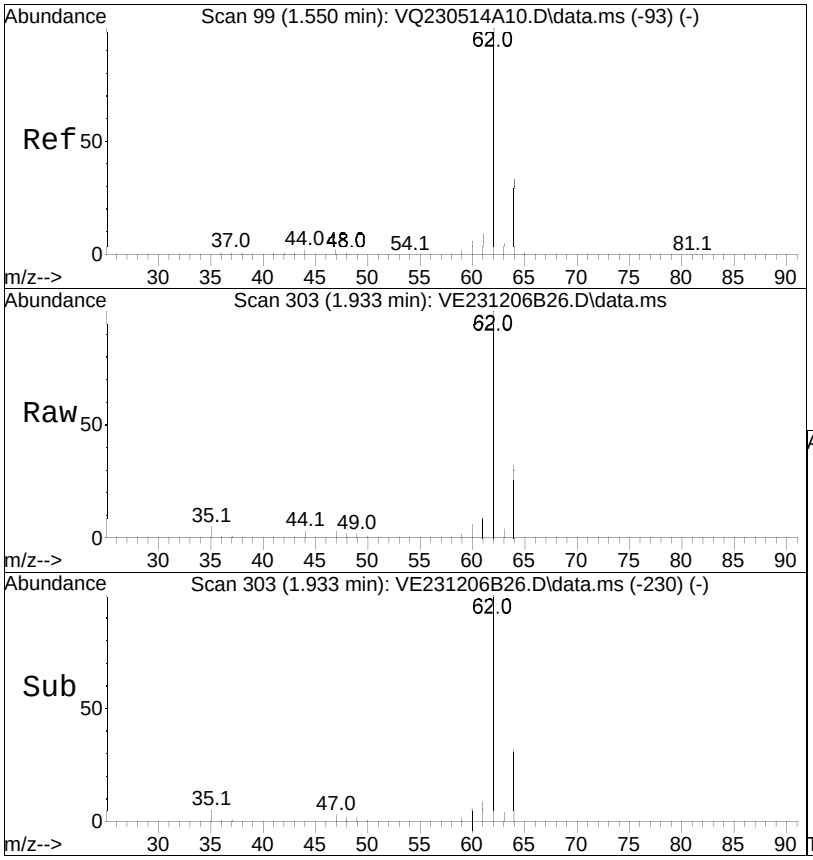


#3
Chloromethane
Concen: 6.64 ug/L
RT: 1.852 min Scan# 274
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 50 Resp: 49816

Ion	Ratio	Lower	Upper
50	100		
52	31.9	11.5	51.5
47	7.4	0.0	28.2

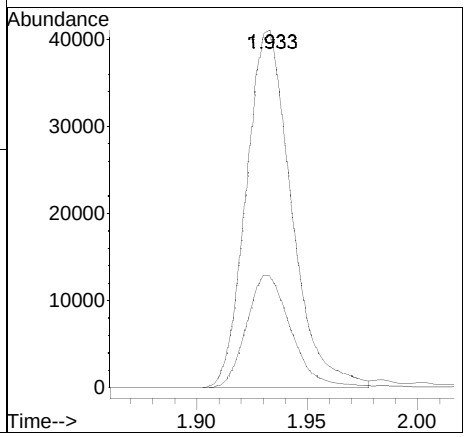


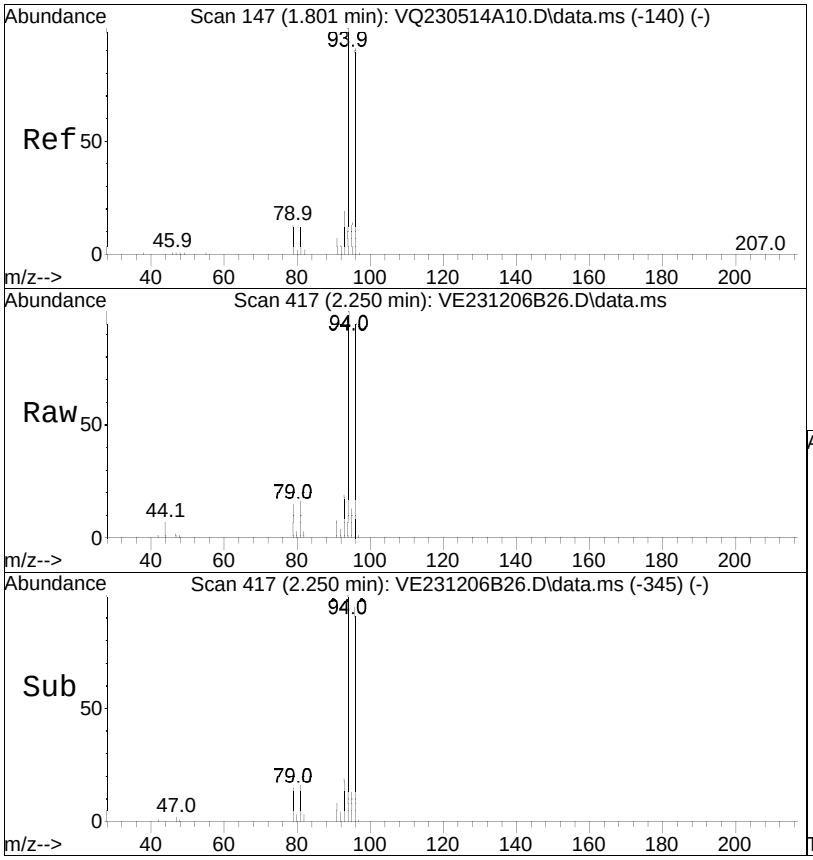


#4
Vinyl chloride
Concen: 8.52 ug/L
RT: 1.933 min Scan# 303
Delta R.T. 0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 62 Resp: 58024

Ion	Ratio	Lower	Upper
62	100		
64	31.3	12.4	52.4

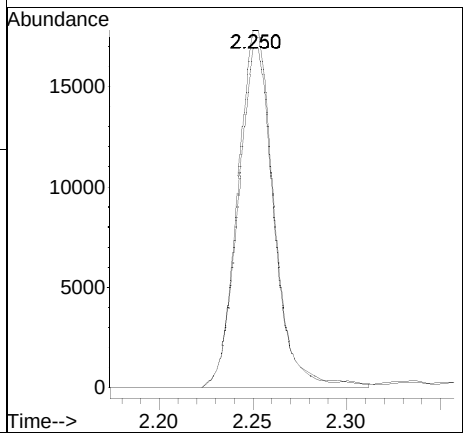


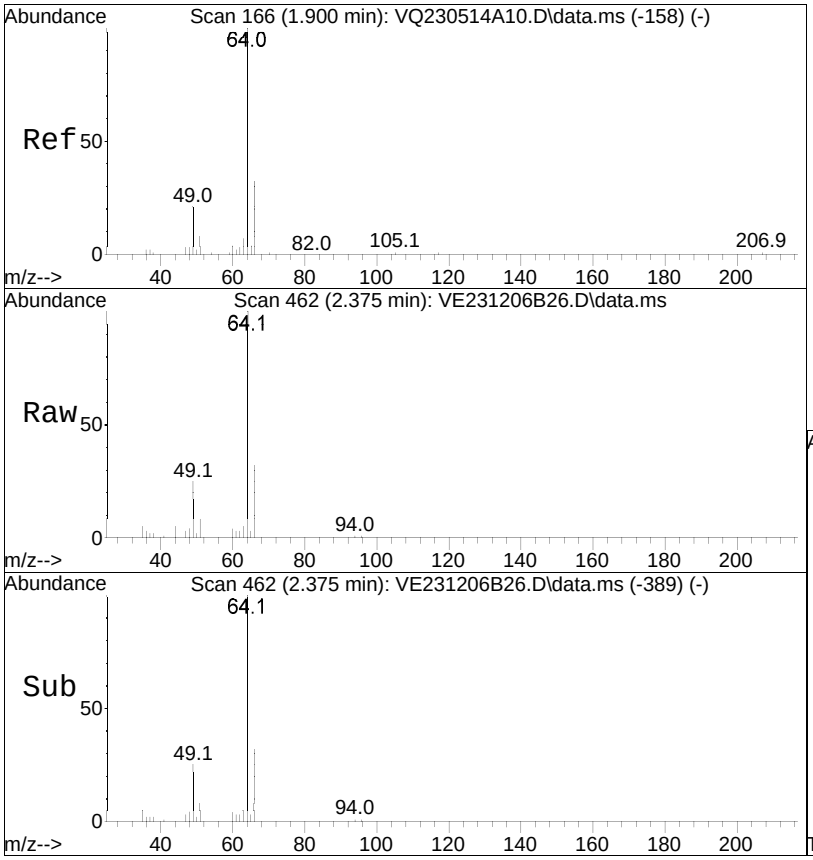


#5
Bromomethane
Concen: 11.21 ug/L
RT: 2.250 min Scan# 417
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 94 Resp: 23839

Ion	Ratio	Lower	Upper
94	100		
96	92.6	73.9	113.9

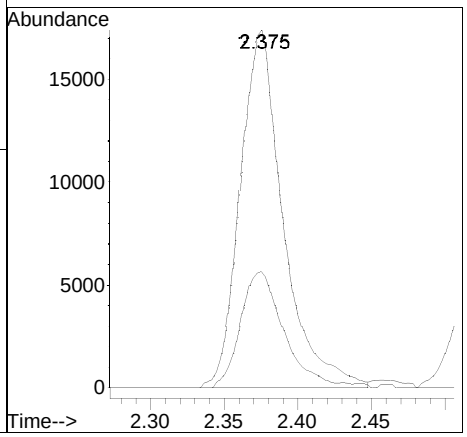


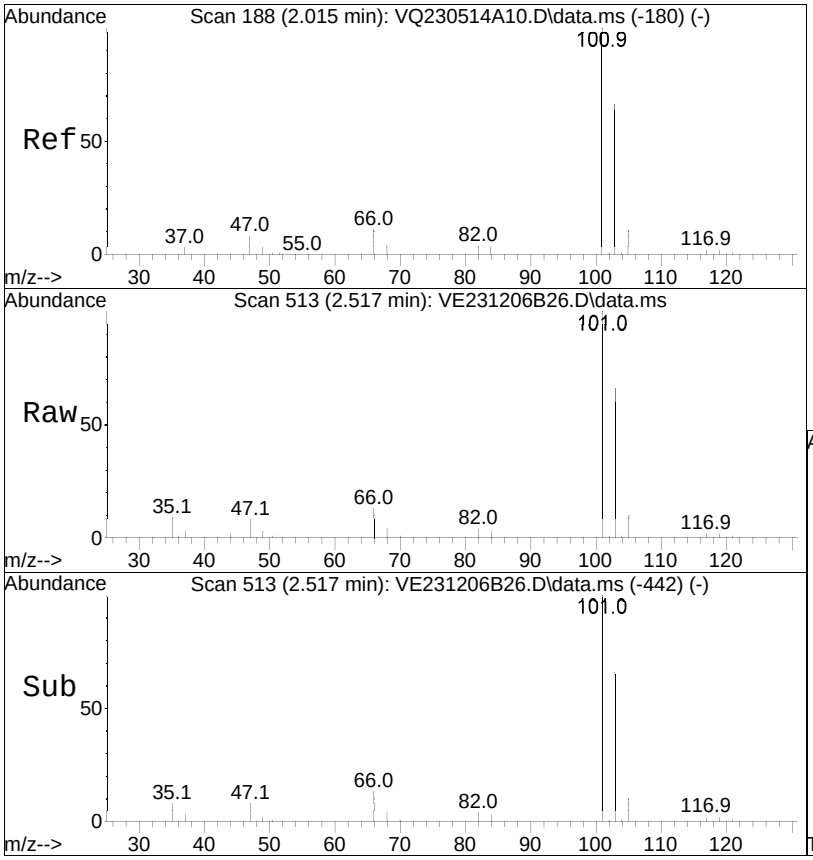


#6
Chloroethane
Concen: 10.06 ug/L
RT: 2.375 min Scan# 462
Delta R.T. 0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 64 Resp: 35103

Ion	Ratio	Lower	Upper
64	100		
66	33.0	9.7	49.7

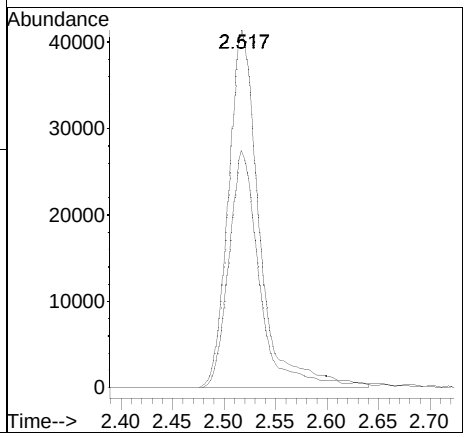


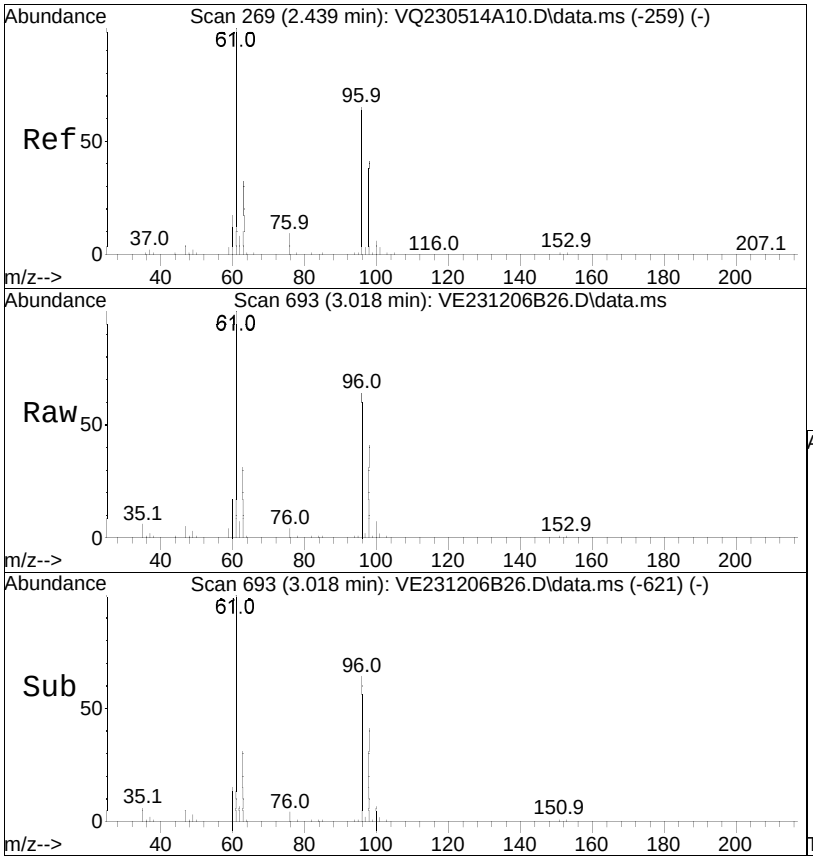


#7
Trichlorofluoromethane
Concen: 12.44 ug/L
RT: 2.517 min Scan# 513
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:101 Resp: 86055

Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.2	78.2

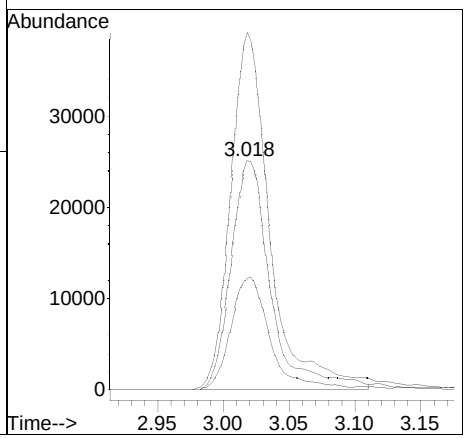


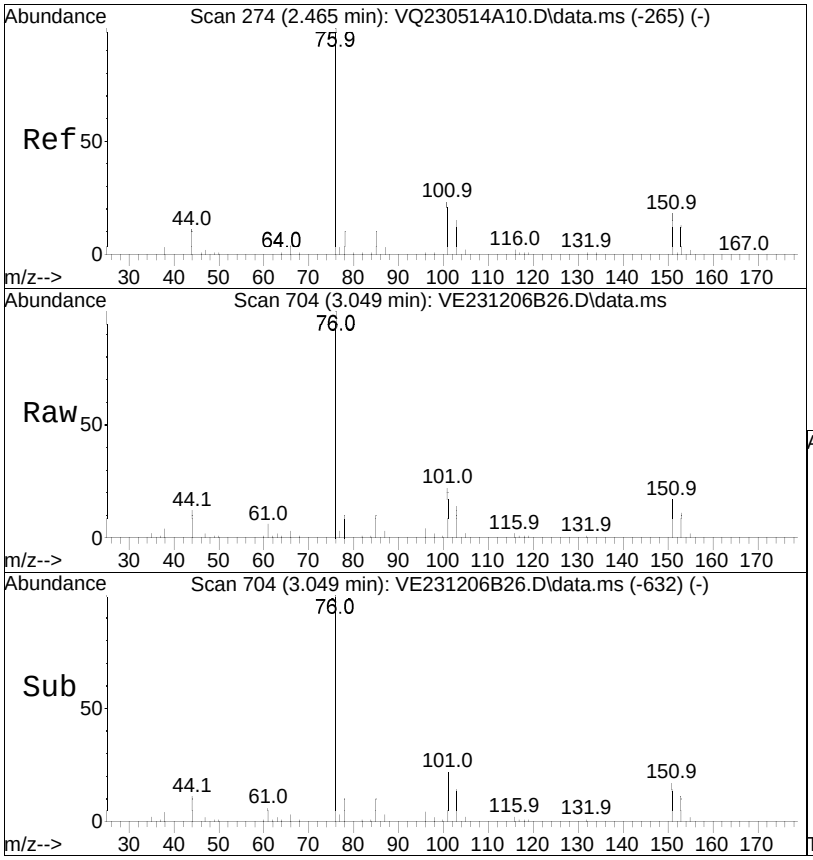


#10
1,1-Dichloroethene
Concen: 11.96 ug/L
RT: 3.018 min Scan# 693
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 96 Resp: 52829

Ion	Ratio	Lower	Upper
96	100		
61	156.8	149.7	224.5
63	48.8	46.8	70.2

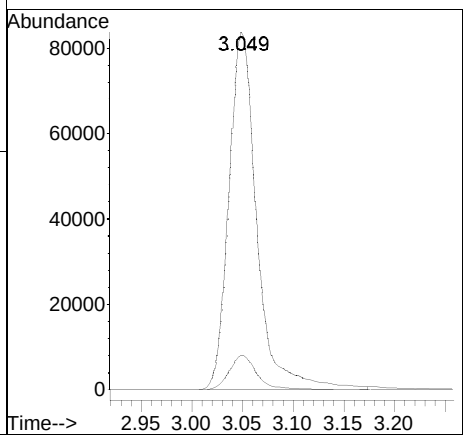


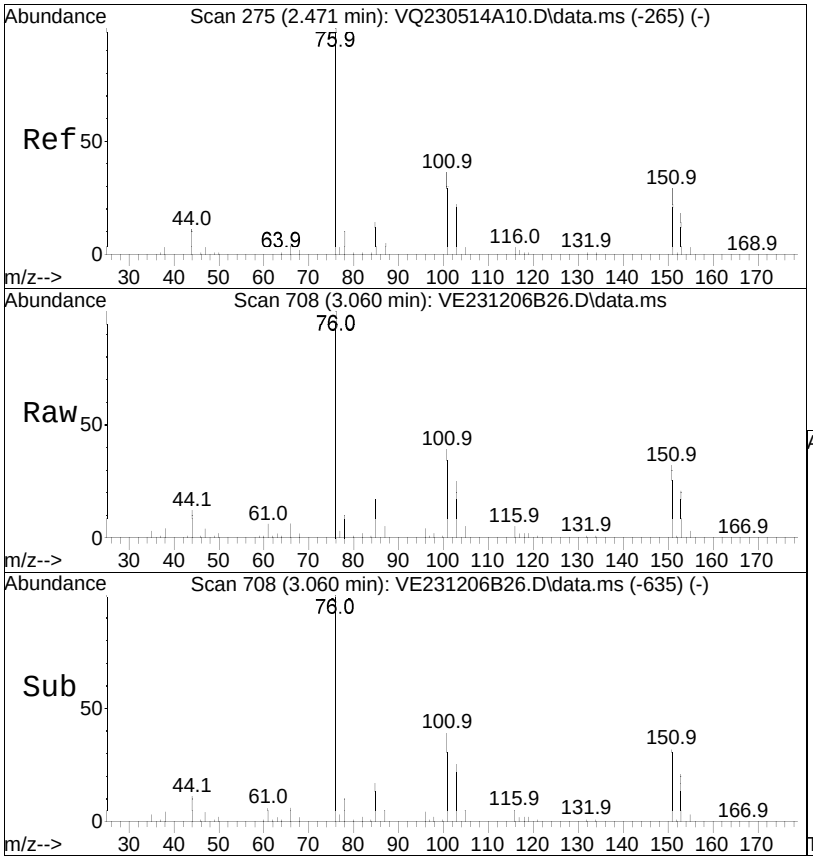


#11
Carbon disulfide
Concen: 11.42 ug/L
RT: 3.049 min Scan# 704
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 76 Resp: 159918

Ion	Ratio	Lower	Upper
76	100		
78	9.6	6.8	14.0

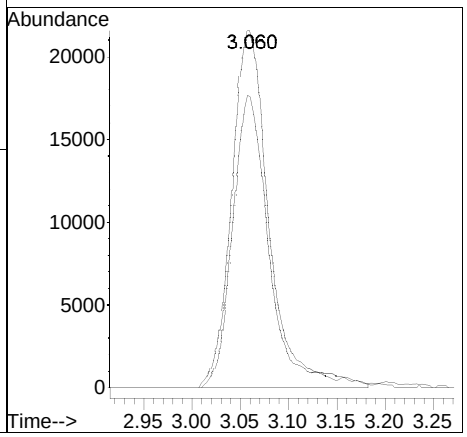


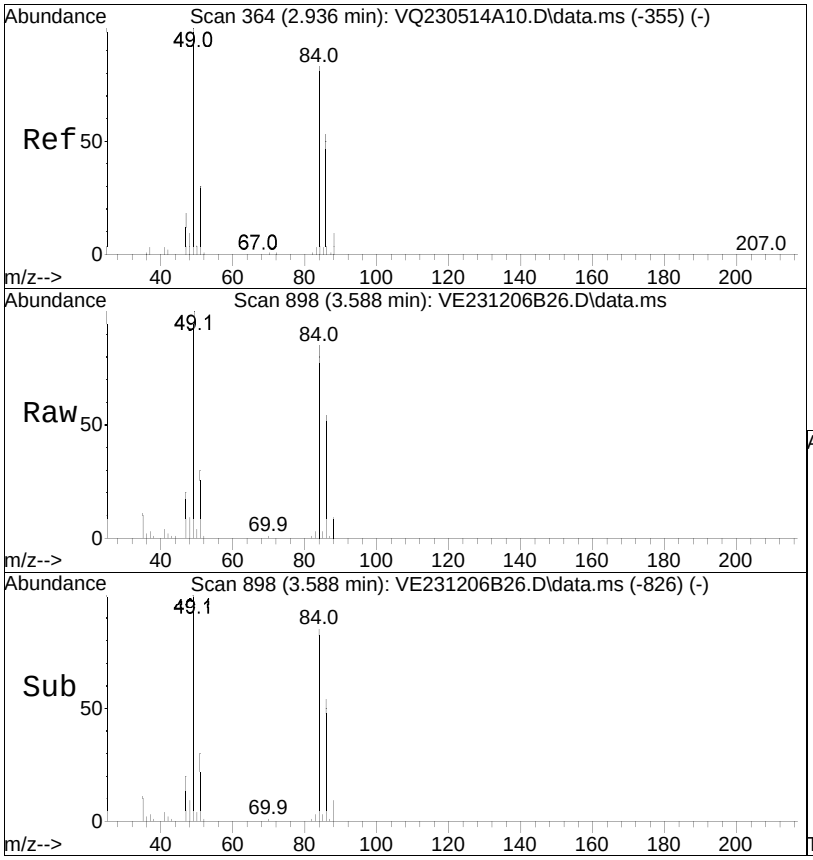


#12
Freon-113
Concen: 11.80 ug/L
RT: 3.060 min Scan# 708
Delta R.T. 0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:101 Resp: 57993

Ion	Ratio	Lower	Upper
101	100		
151	76.5	63.6	95.4

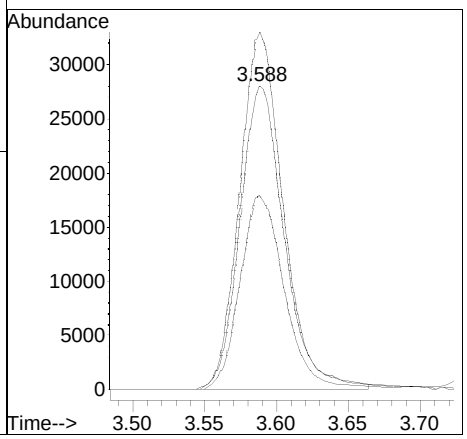


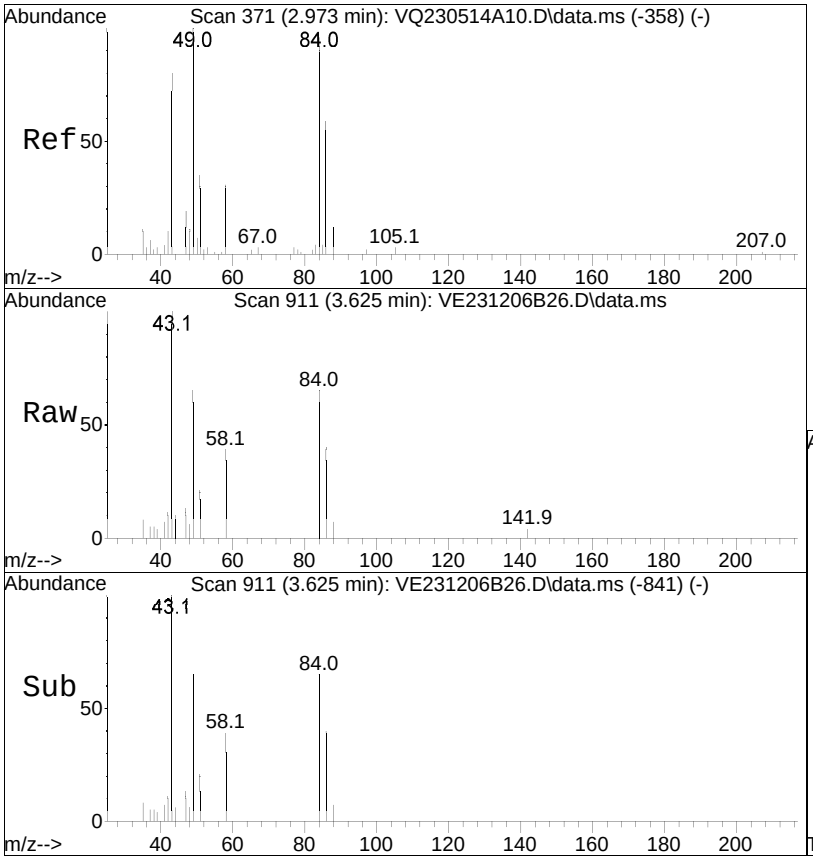


#15
Methylene chloride
Concen: 10.80 ug/L
RT: 3.588 min Scan# 898
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 84 Resp: 59571

Ion	Ratio	Lower	Upper
84	100		
86	64.4	41.0	85.2
49	116.4	88.1	183.1

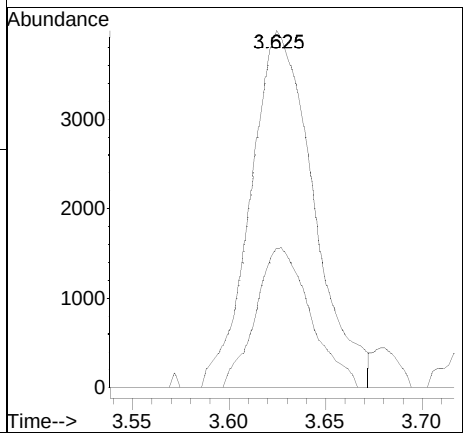


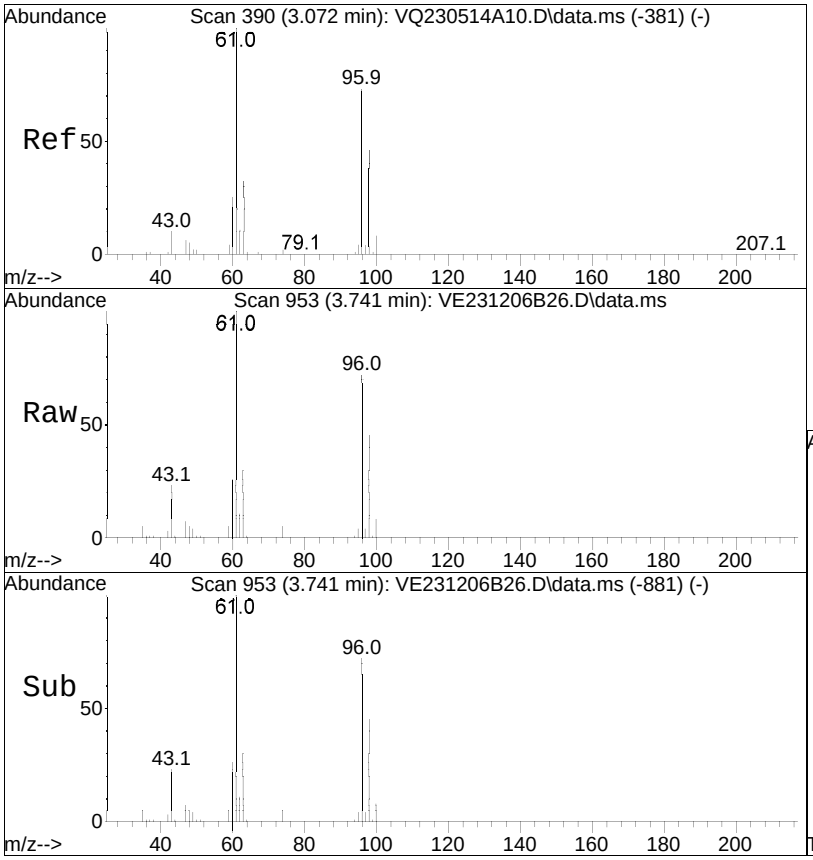


#17
Acetone
Concen: 6.83 ug/L
RT: 3.625 min Scan# 911
Delta R.T. -0.005 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 43 Resp: 8997

Ion	Ratio	Lower	Upper
43	100		
58	34.3	20.2	30.4#

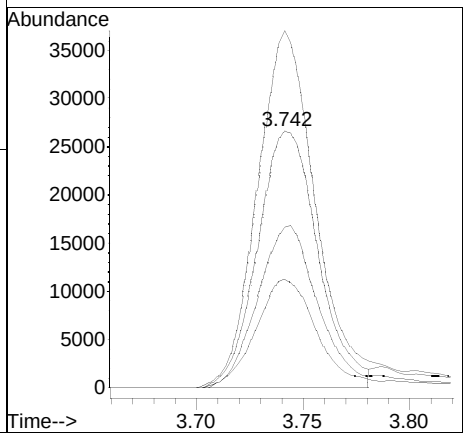


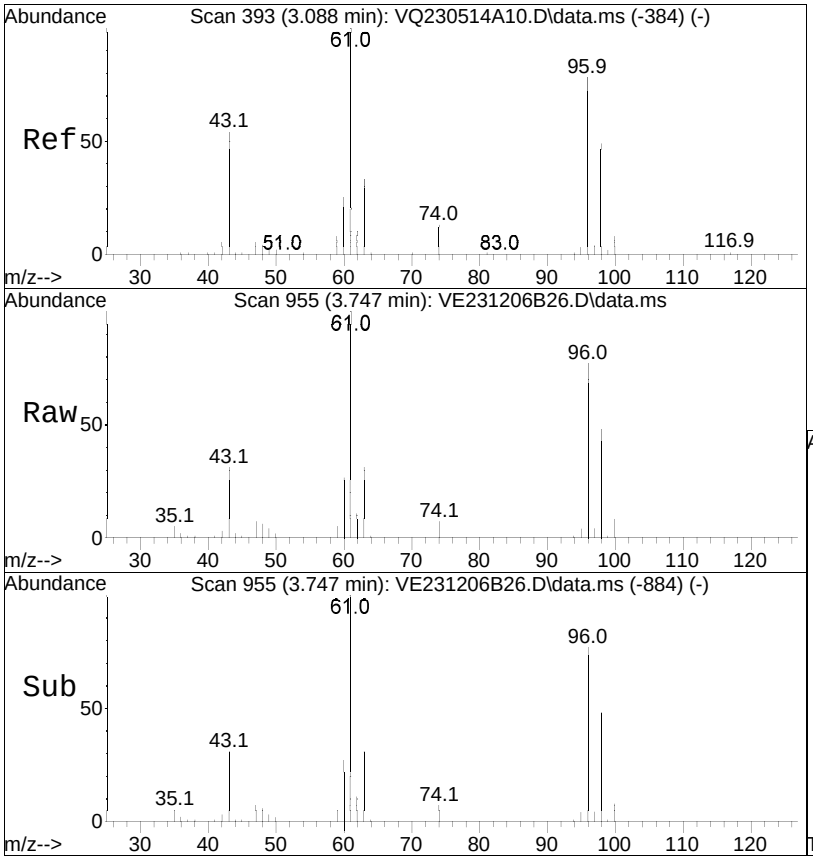


#18
trans-1,2-Dichloroethene
Concen: 10.66 ug/L
RT: 3.741 min Scan# 953
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 96 Resp: 52478

Ion	Ratio	Lower	Upper
96	100		
61	136.9	102.8	213.4
98	62.8	41.8	86.8
63	45.5	32.2	66.8

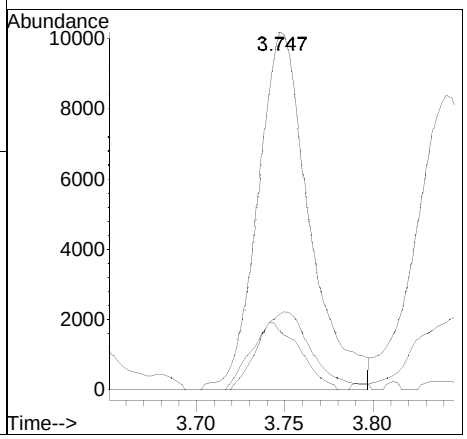


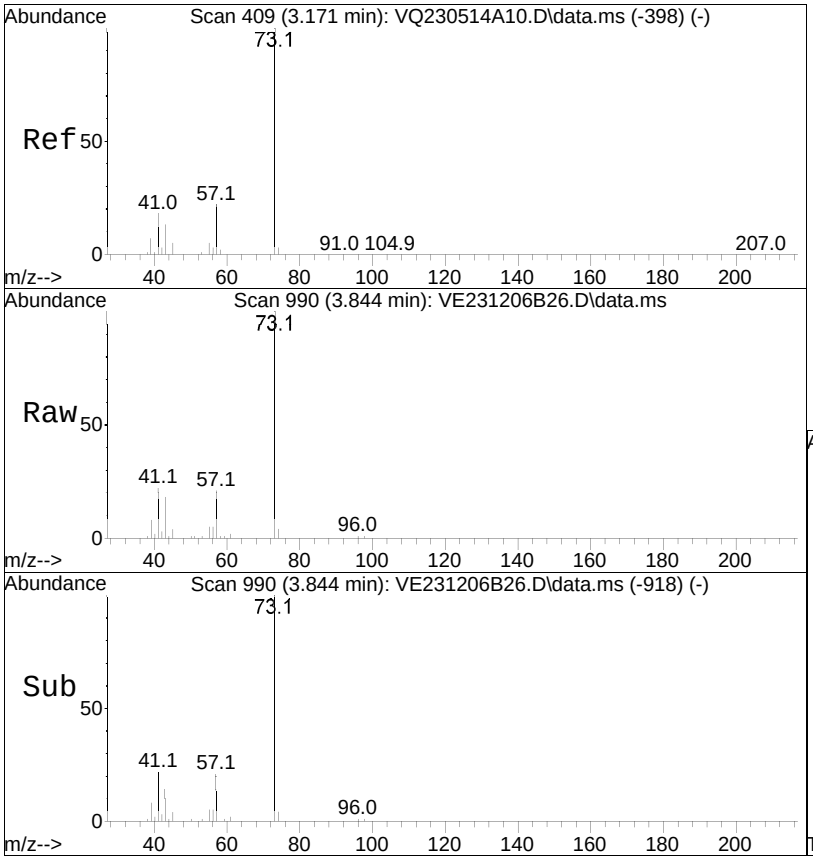


#19
Methyl acetate
Concen: 6.65 ug/L
RT: 3.747 min Scan# 955
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 43 Resp: 20654

Ion	Ratio	Lower	Upper
43	100		
74	22.4	16.6	24.8
59	17.8	13.9	20.9

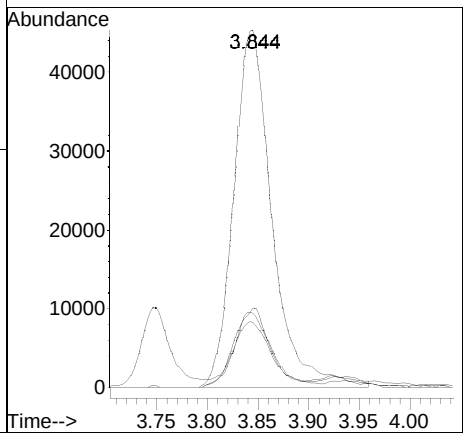


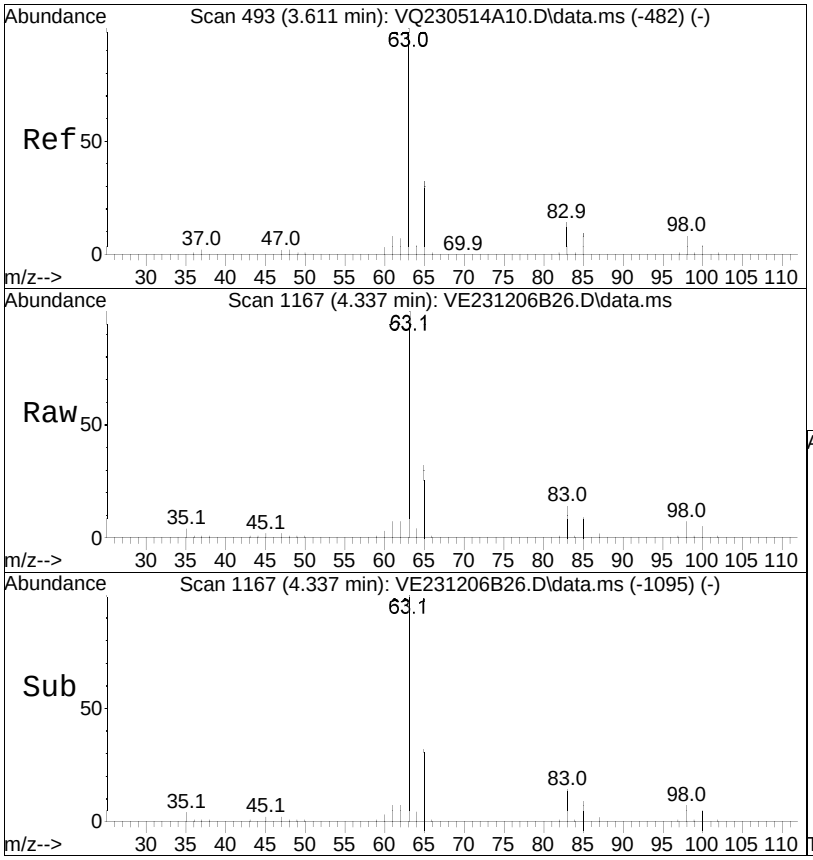


#21
Methyl tert-butyl ether
Concen: 9.90 ug/L
RT: 3.844 min Scan# 990
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 73 Resp: 118423

Ion	Ratio	Lower	Upper
73	100		
57	20.5	14.0	29.0
43	18.4	13.6	28.2
41	21.4	15.0	31.2

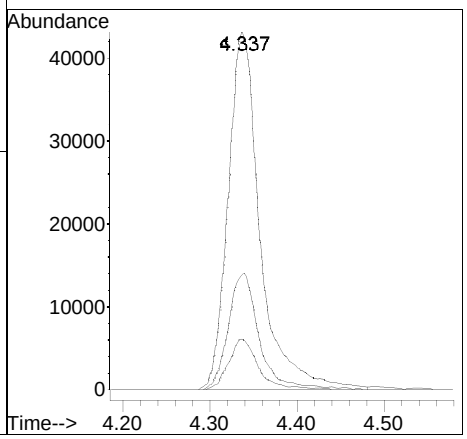


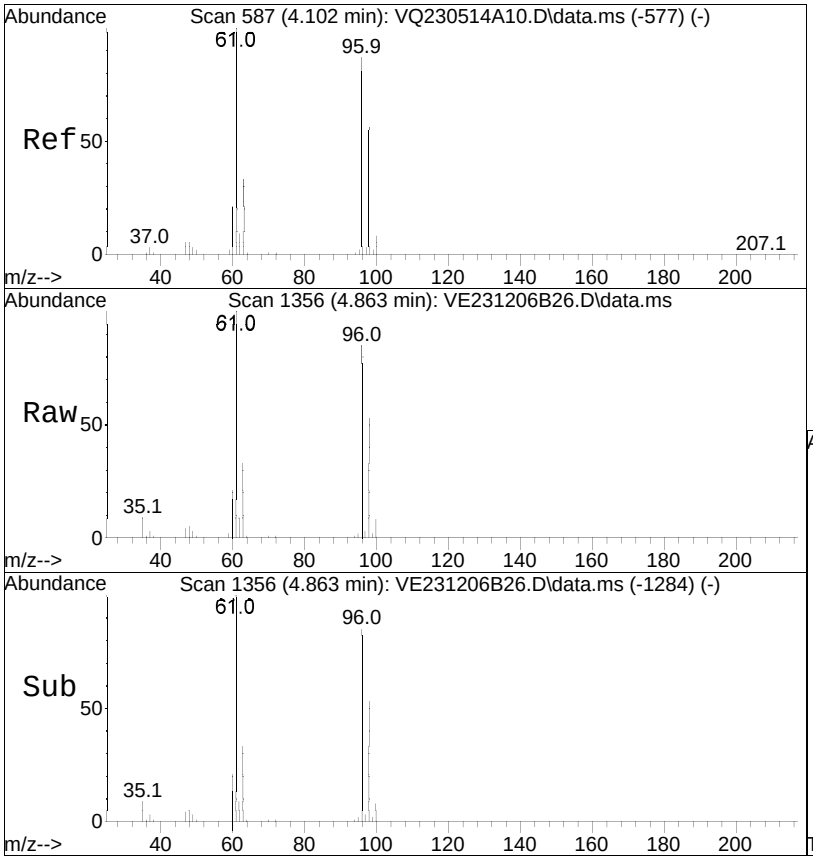


#25
1,1-Dichloroethane
Concen: 10.28 ug/L
RT: 4.337 min Scan# 1167
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 63 Resp: 109222

Ion	Ratio	Lower	Upper
63	100		
65	30.7	11.5	51.5
83	12.8	0.0	32.7

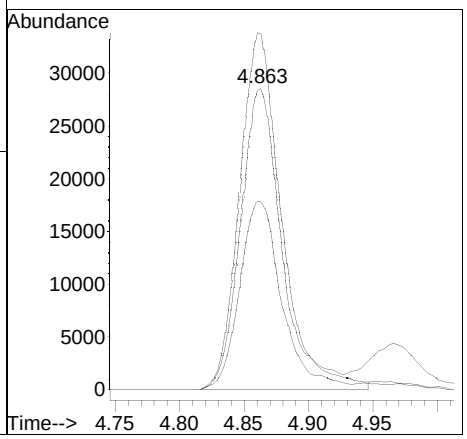


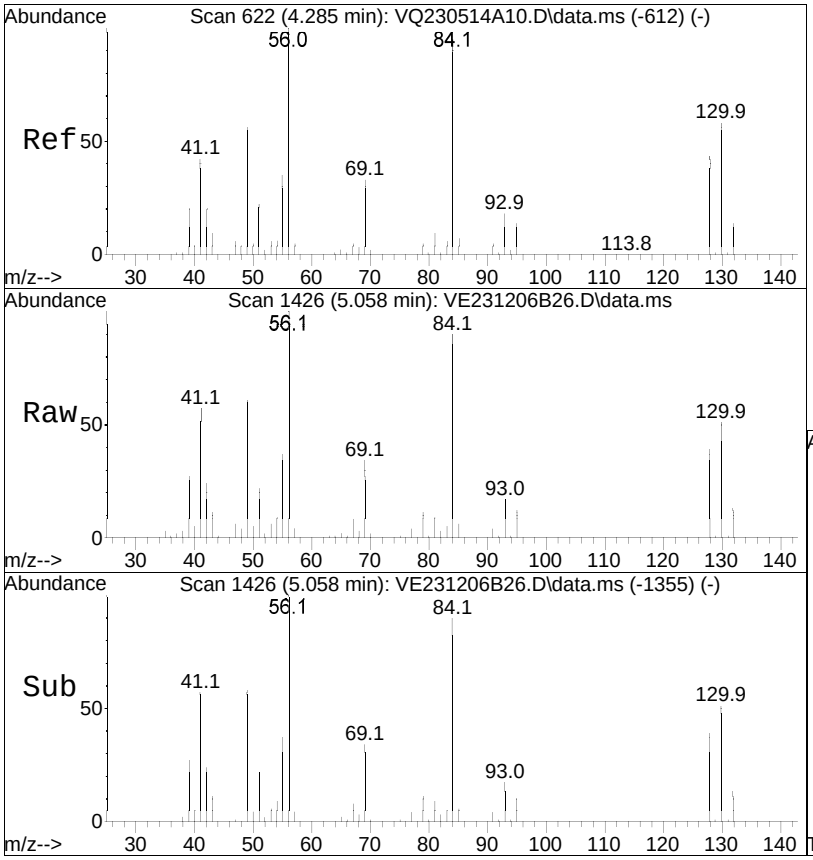


#30
cis-1,2-Dichloroethene
Concen: 11.36 ug/L
RT: 4.863 min Scan# 1356
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 96 Resp: 64194

Ion	Ratio	Lower	Upper
96	100		
61	117.9	115.3	172.9
98	63.5	51.8	77.8

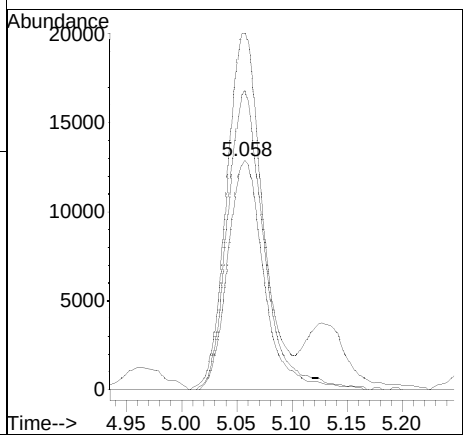


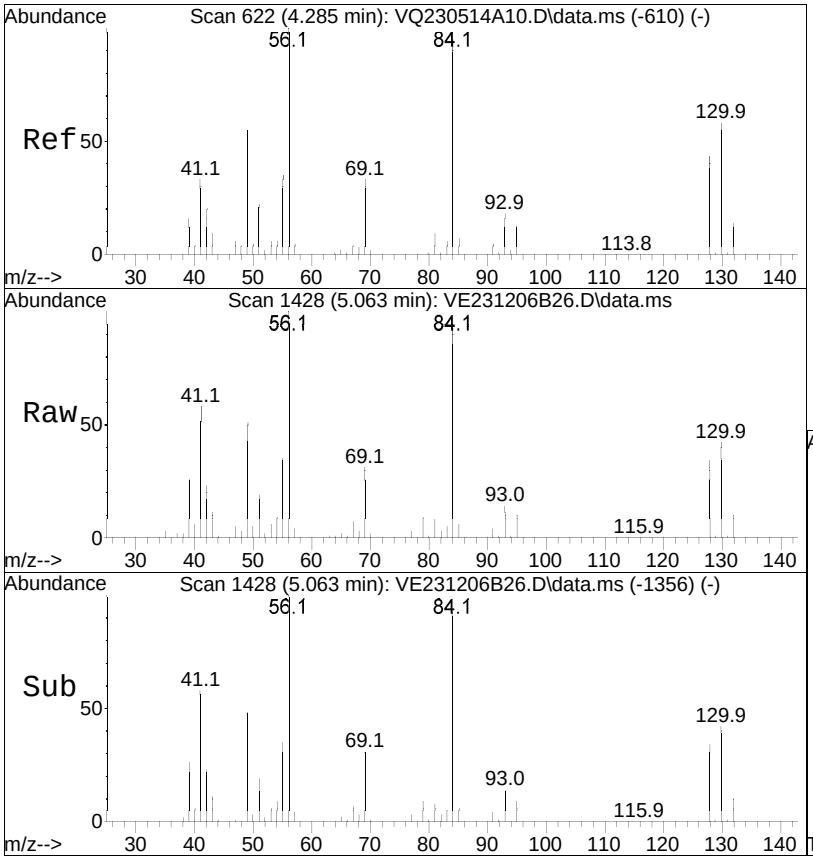


#33
Bromochloromethane
Concen: 12.13 ug/L
RT: 5.058 min Scan# 1426
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:128 Resp: 29783

Ion	Ratio	Lower	Upper
128	100		
49	151.1	143.3	214.9
130	129.7	102.7	154.1

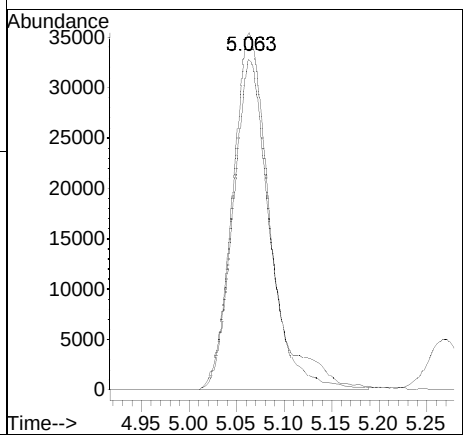


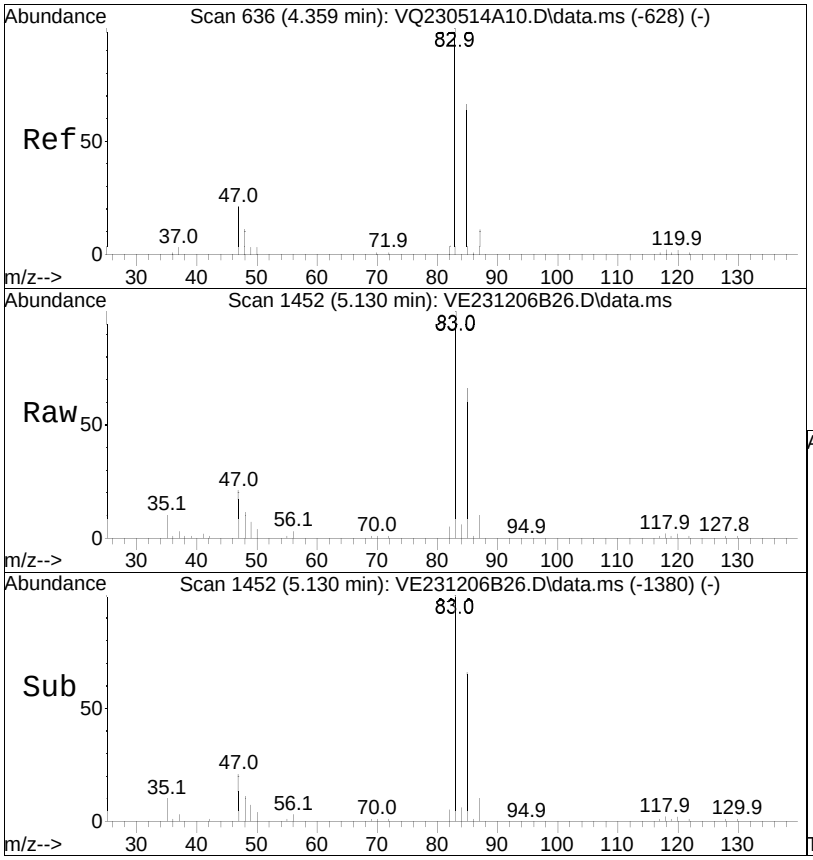


#34
Cyclohexane
Concen: 7.86 ug/L
RT: 5.063 min Scan# 1428
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 56 Resp: 94482

Ion	Ratio	Lower	Upper
56	100		
84	96.0	57.5	119.3

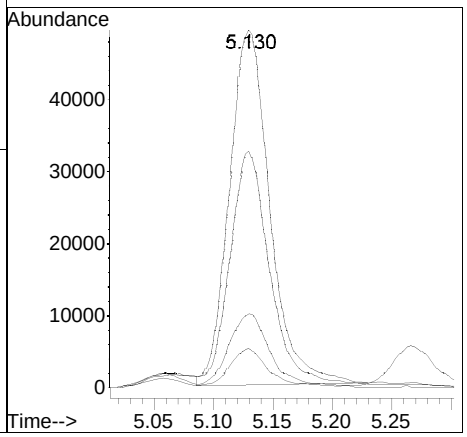


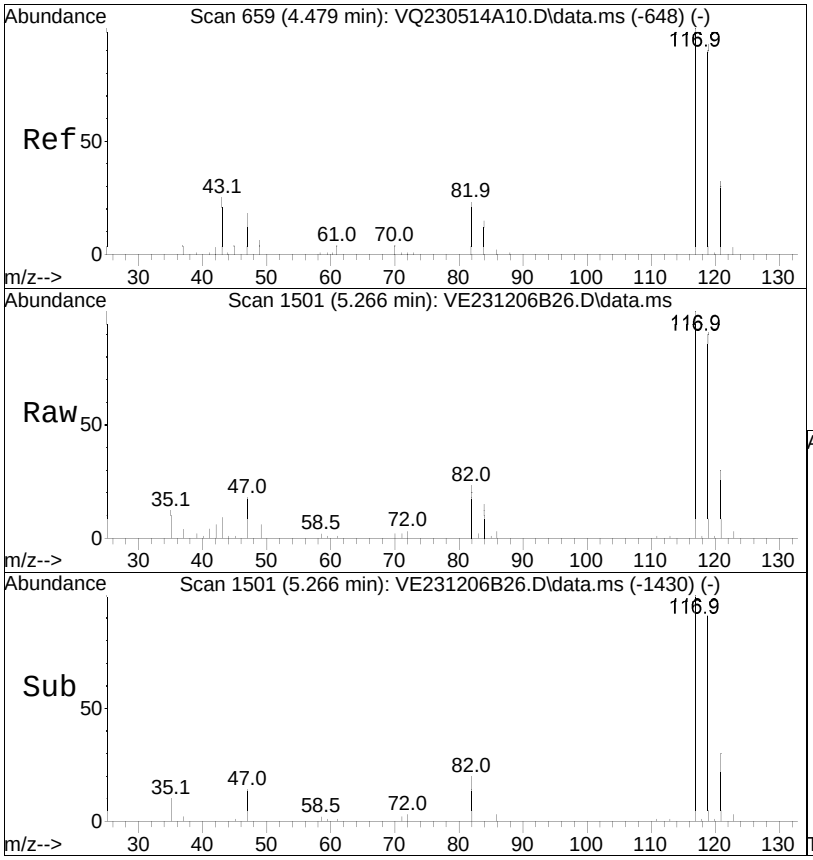


#35
Chloroform
Concen: 13.03 ug/L
RT: 5.130 min Scan# 1452
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 83 Resp: 116623

Ion	Ratio	Lower	Upper
83	100		
85	64.8	43.0	89.2
47	20.3	17.5	36.3
48	10.3	8.8	18.2

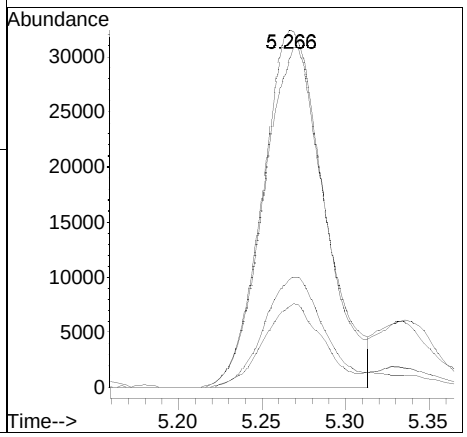


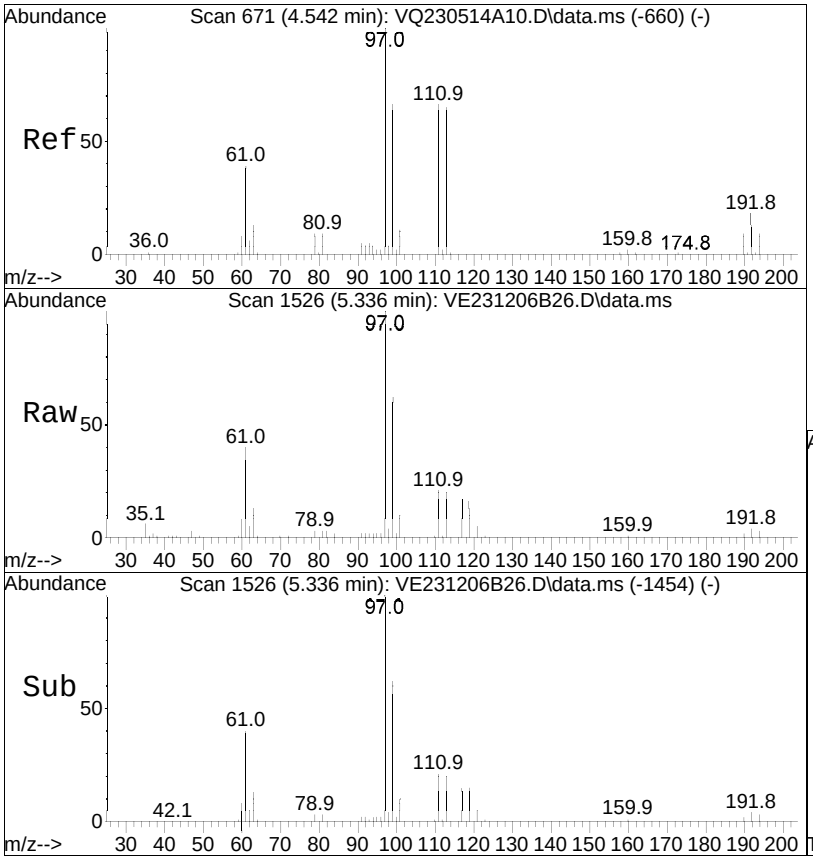


#37
Carbon tetrachloride
Concen: 12.31 ug/L
RT: 5.266 min Scan# 1501
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:117 Resp: 82520

Ion	Ratio	Lower	Upper
117	100		
119	94.1	63.2	131.2
121	30.4	20.3	42.3
82	23.0	18.1	37.7

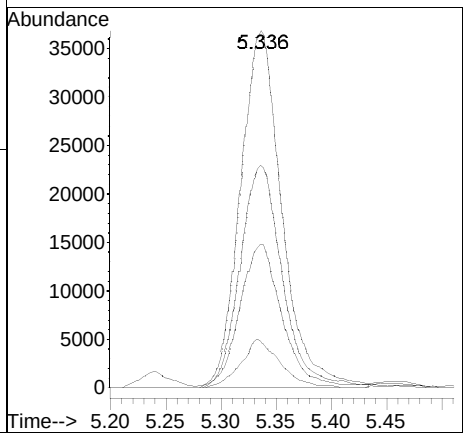


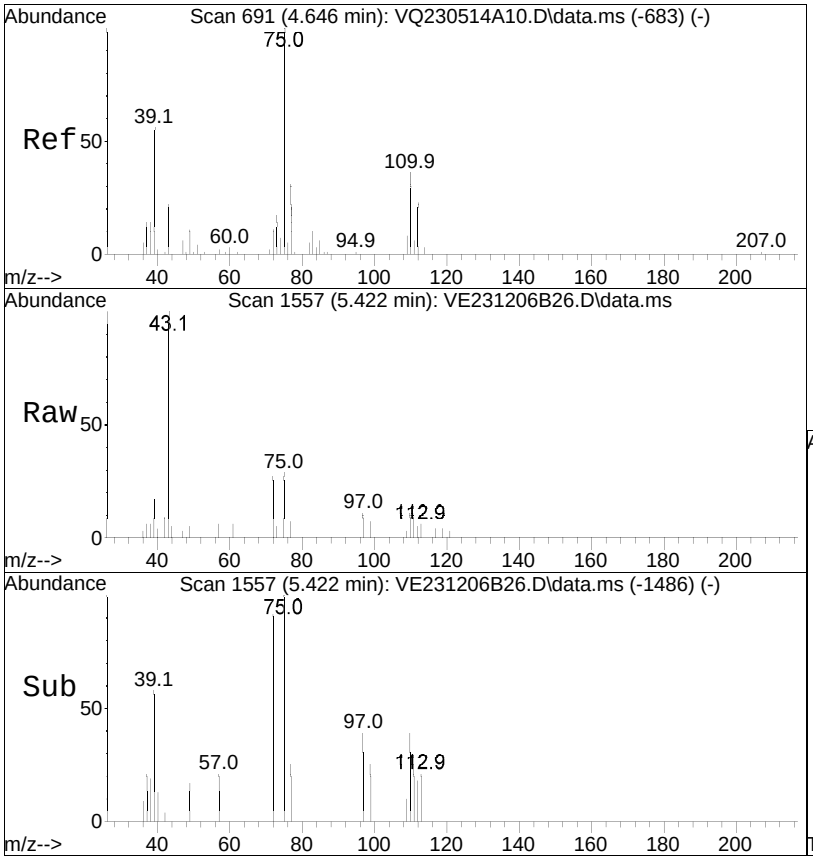


#40
1,1,1-Trichloroethane
Concen: 11.92 ug/L
RT: 5.336 min Scan# 1526
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 97 Resp: 95764

Ion	Ratio	Lower	Upper
97	100		
99	63.4	42.5	88.3
61	39.8	30.4	63.2
63	12.9	9.6	19.8

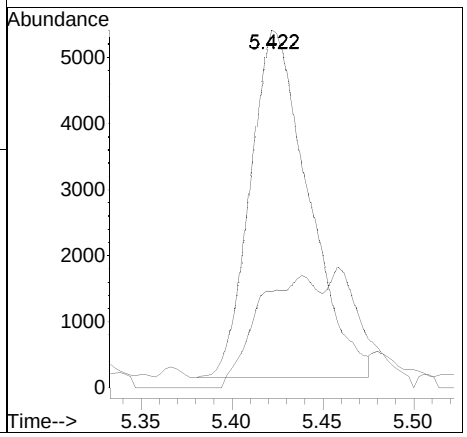


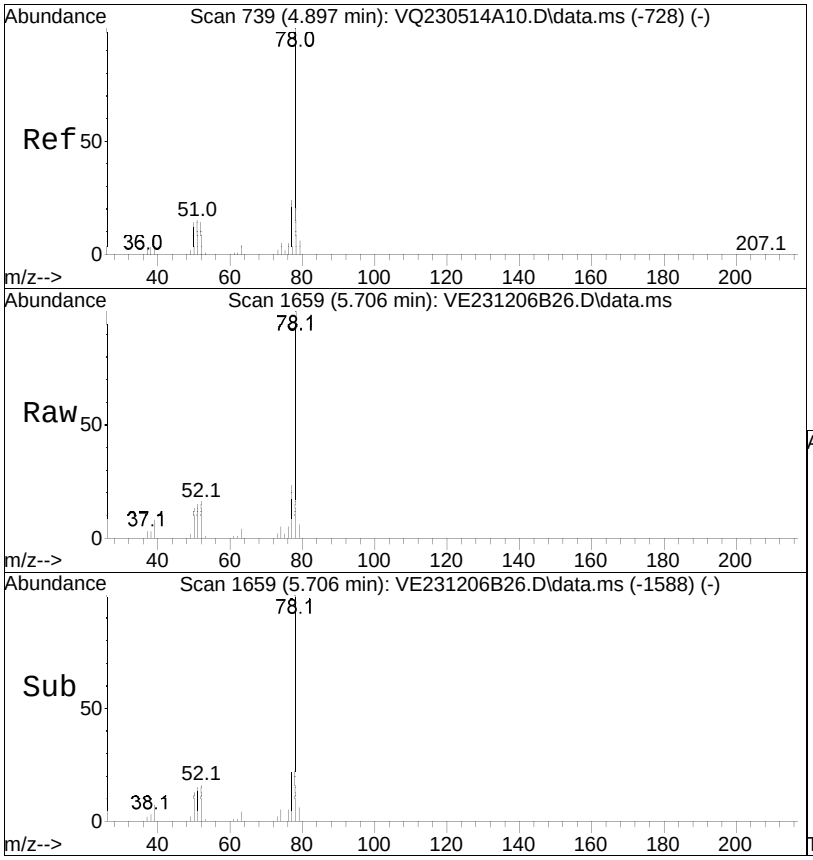


#42
2-Butanone
Concen: 6.19 ug/L
RT: 5.422 min Scan# 1557
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 43 Resp: 11636

Ion	Ratio	Lower	Upper
43	100		
72	34.5	31.2	46.8

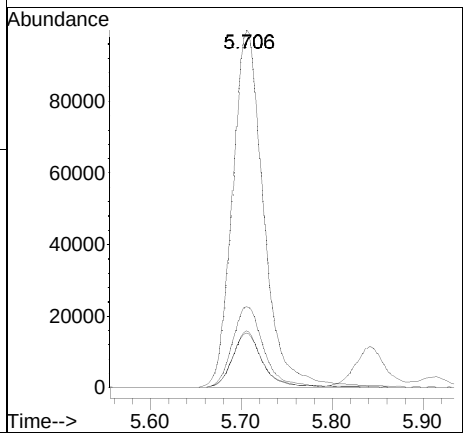


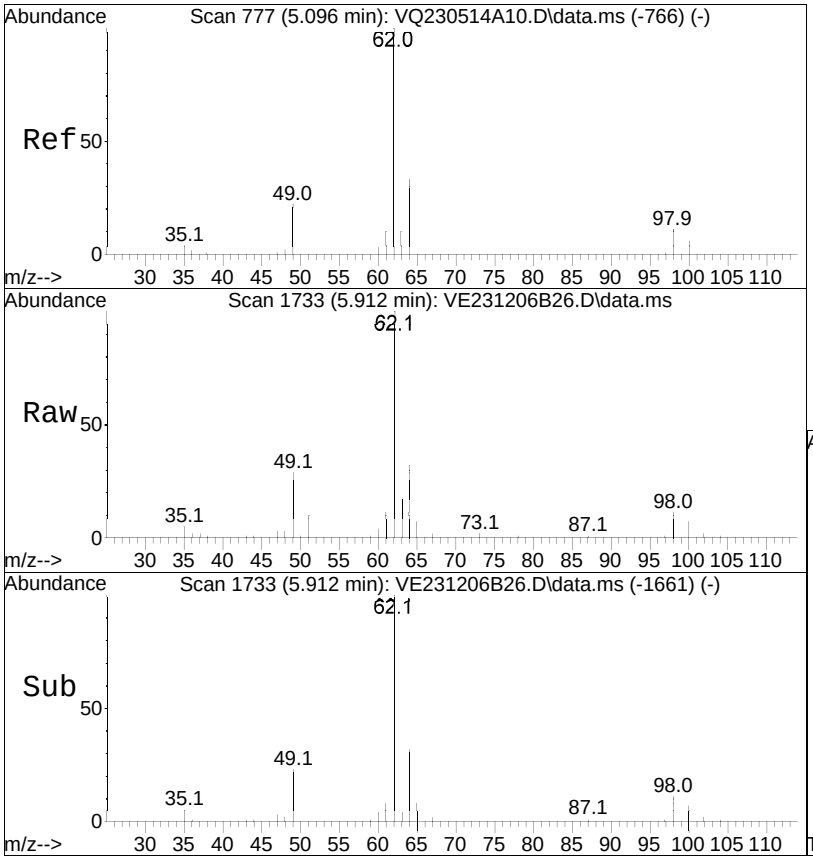


#45
Benzene
Concen: 11.30 ug/L
RT: 5.706 min Scan# 1659
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 78 Resp: 236034

Ion	Ratio	Lower	Upper
78	100		
77	22.9	15.9	33.1
51	14.7	12.3	25.5
52	14.9	11.3	23.5

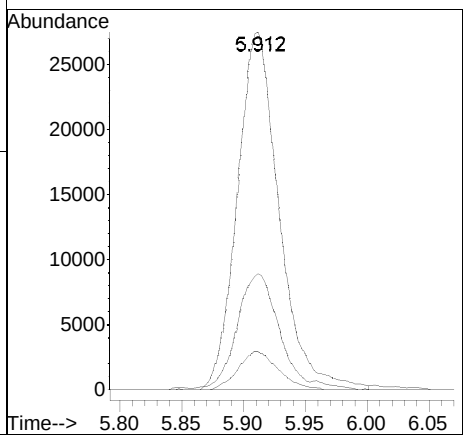


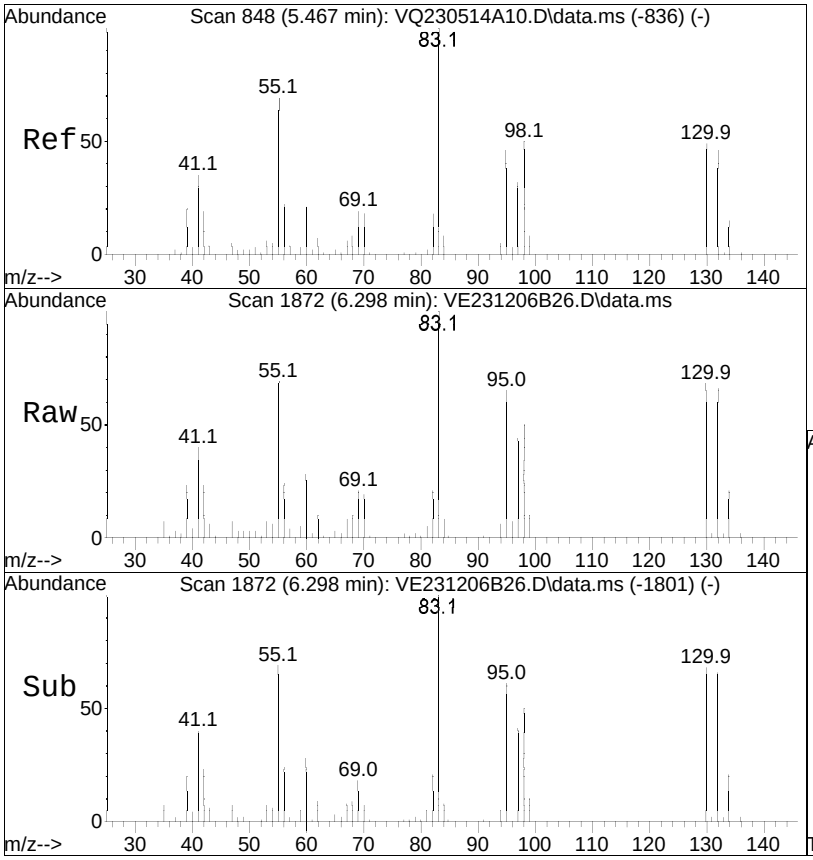


#48
1,2-Dichloroethane
Concen: 9.28 ug/L
RT: 5.912 min Scan# 1733
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 62 Resp: 64146

Ion	Ratio	Lower	Upper
62	100		
64	30.9	12.6	52.6
98	10.5	0.0	28.2

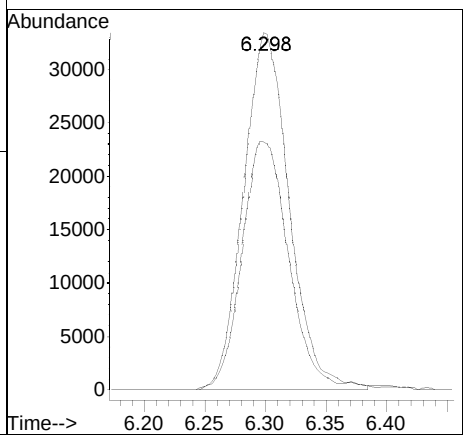


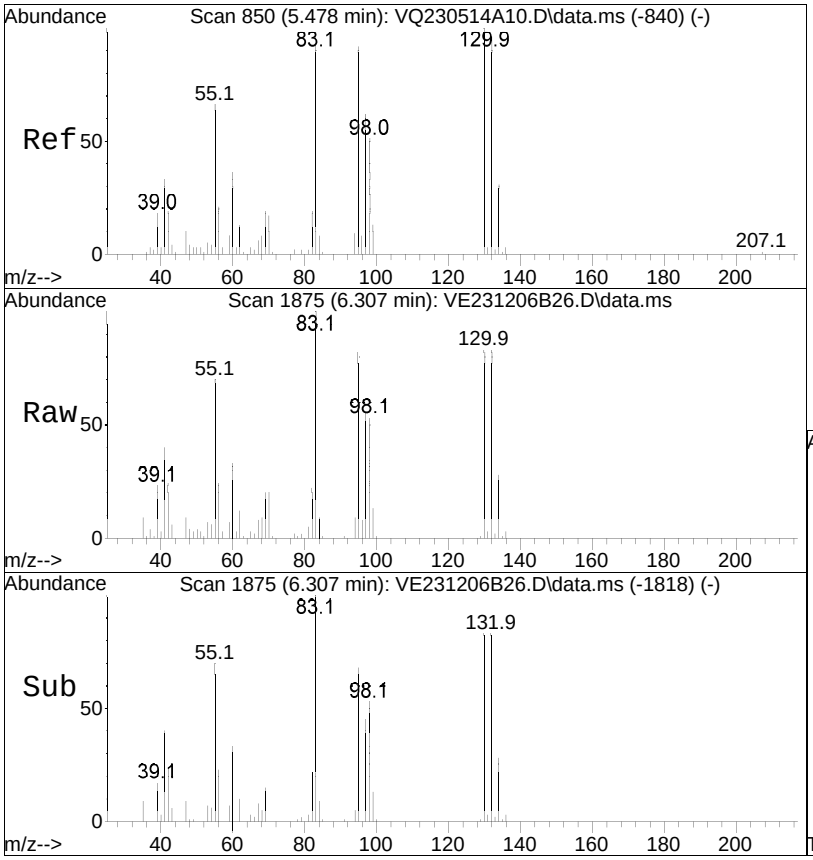


#51
Methyl cyclohexane
Concen: 9.54 ug/L
RT: 6.298 min Scan# 1872
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 83 Resp: 87460

Ion	Ratio	Lower	Upper
83	100		
55	70.6	65.0	97.6

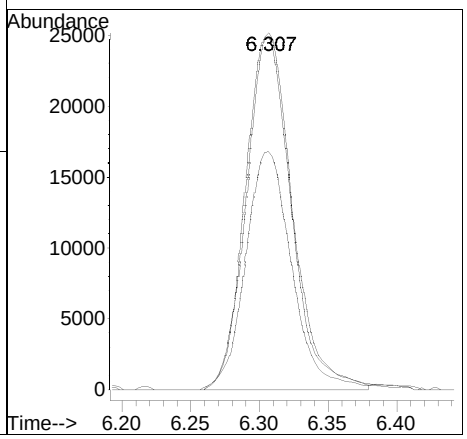


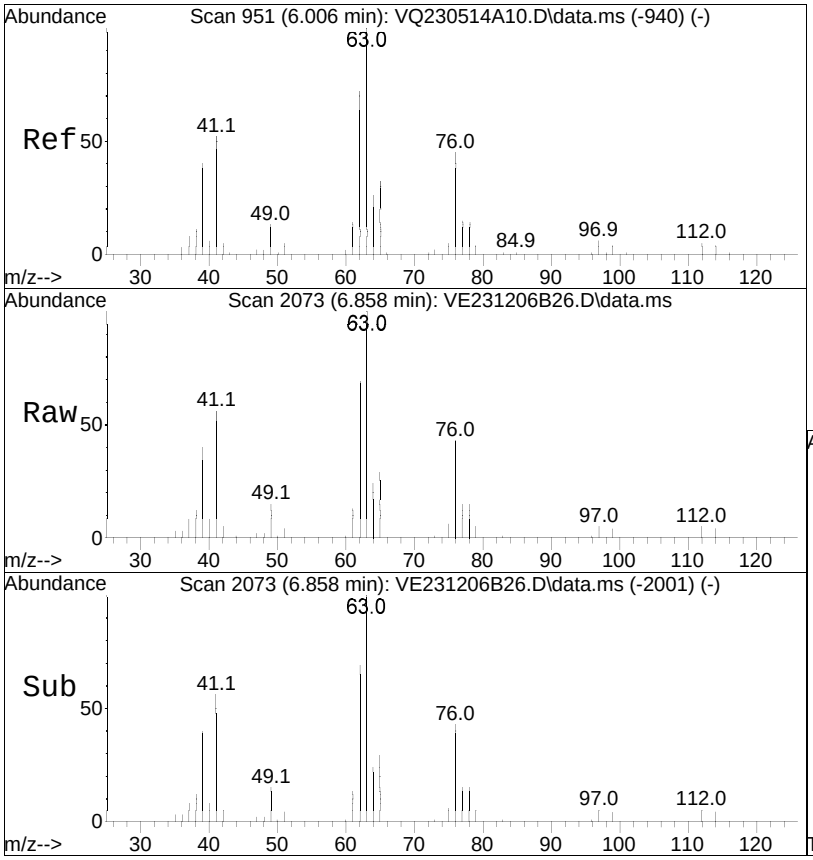


#52
Trichloroethene
Concen: 10.68 ug/L
RT: 6.307 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 95 Resp: 56723

Ion	Ratio	Lower	Upper
95	100		
97	69.5	54.2	81.4
130	105.5	81.8	122.6

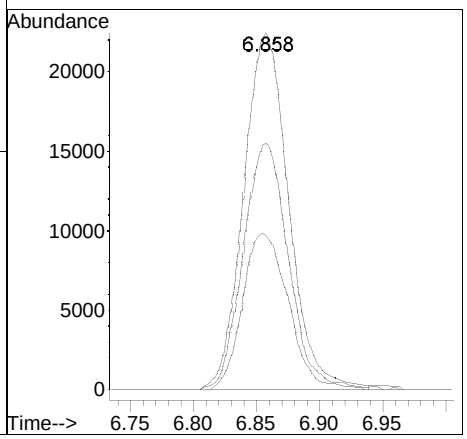


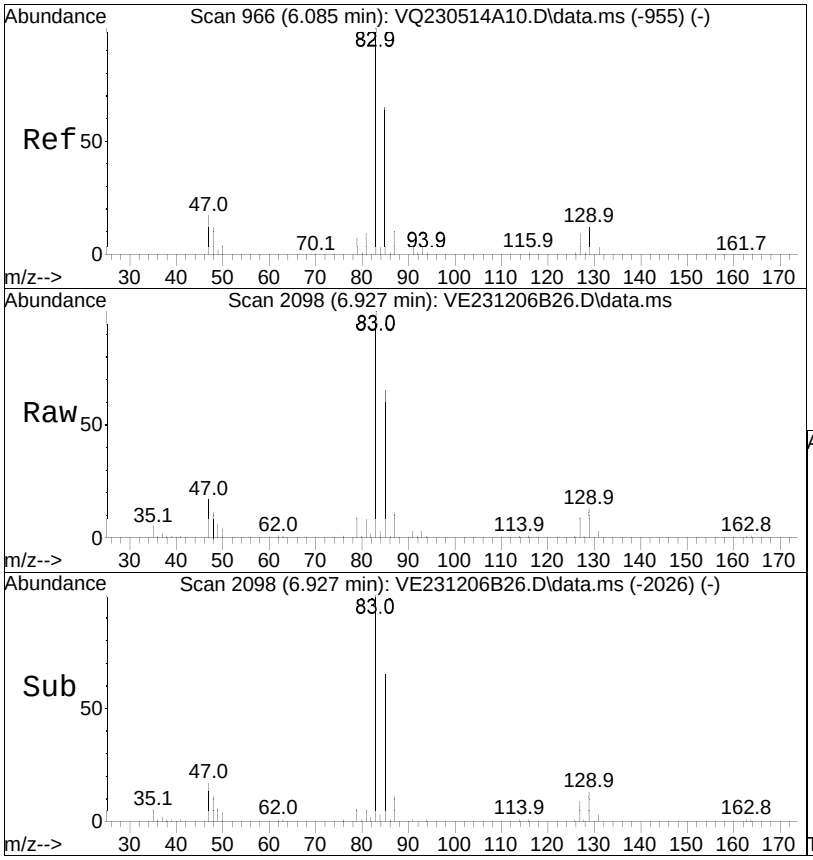


#55
1,2-Dichloropropane
Concen: 9.19 ug/L
RT: 6.858 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 63 Resp: 55479

Ion	Ratio	Lower	Upper
63	100		
62	69.3	57.6	86.4
76	44.8	38.5	57.7

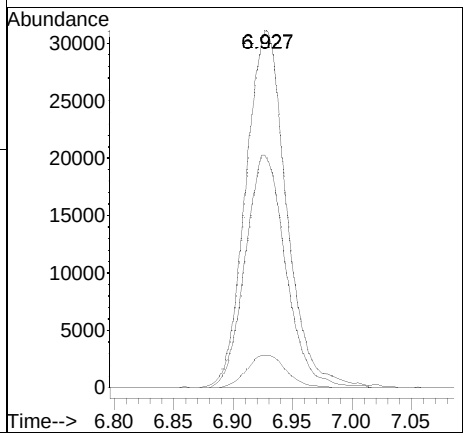


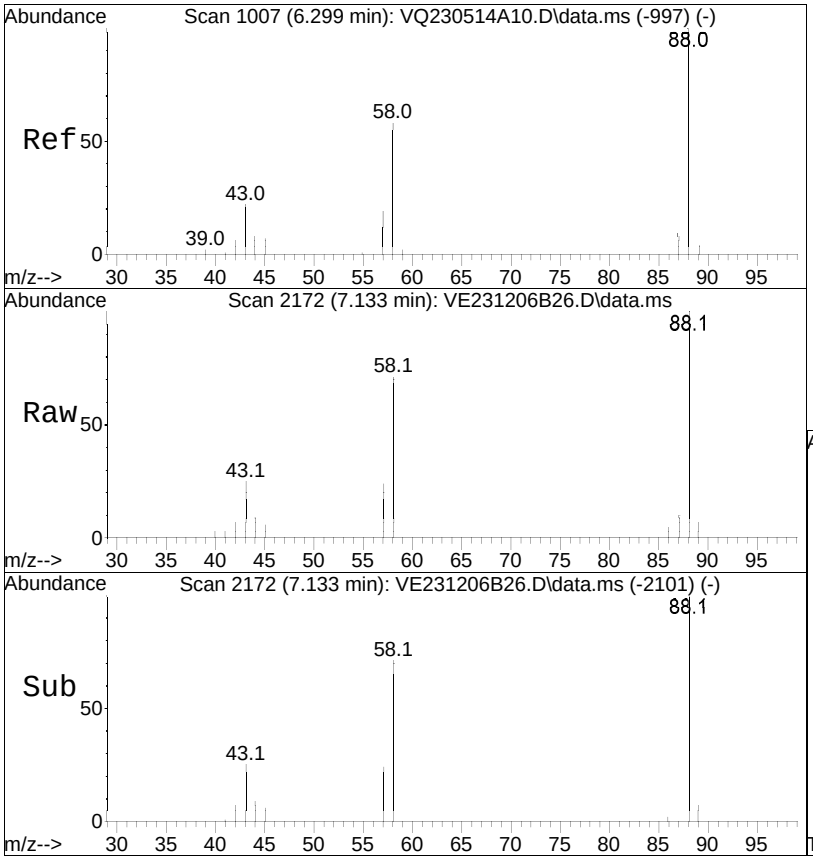


#58
Bromodichloromethane
Concen: 10.98 ug/L
RT: 6.927 min Scan# 2098
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 83 Resp: 73738

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.4	77.2
127	9.1	6.9	10.3

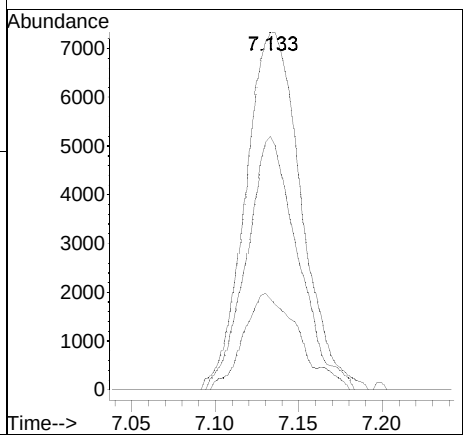


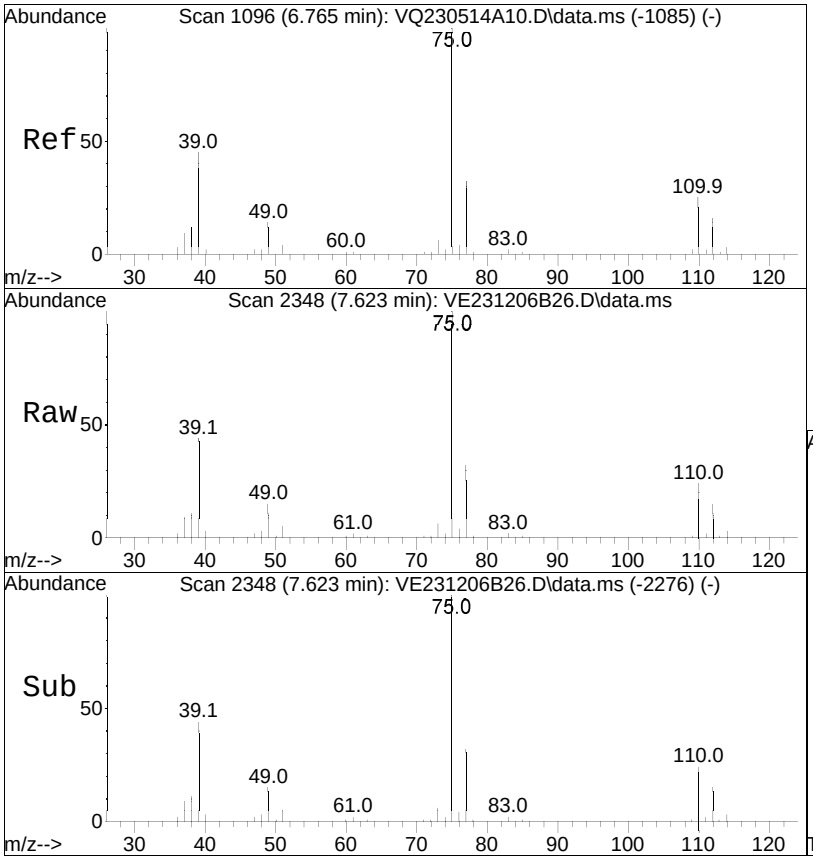


#61
1,4-Dioxane
Concen: 540.05 ug/L
RT: 7.133 min Scan# 2172
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 88 Resp: 16841

Ion	Ratio	Lower	Upper
88	100		
58	65.6	59.1	88.7
43	26.9	30.0	45.0#

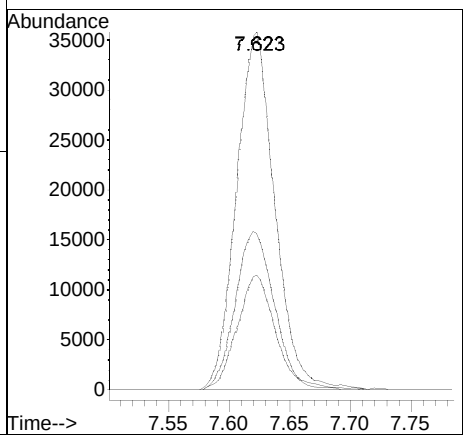


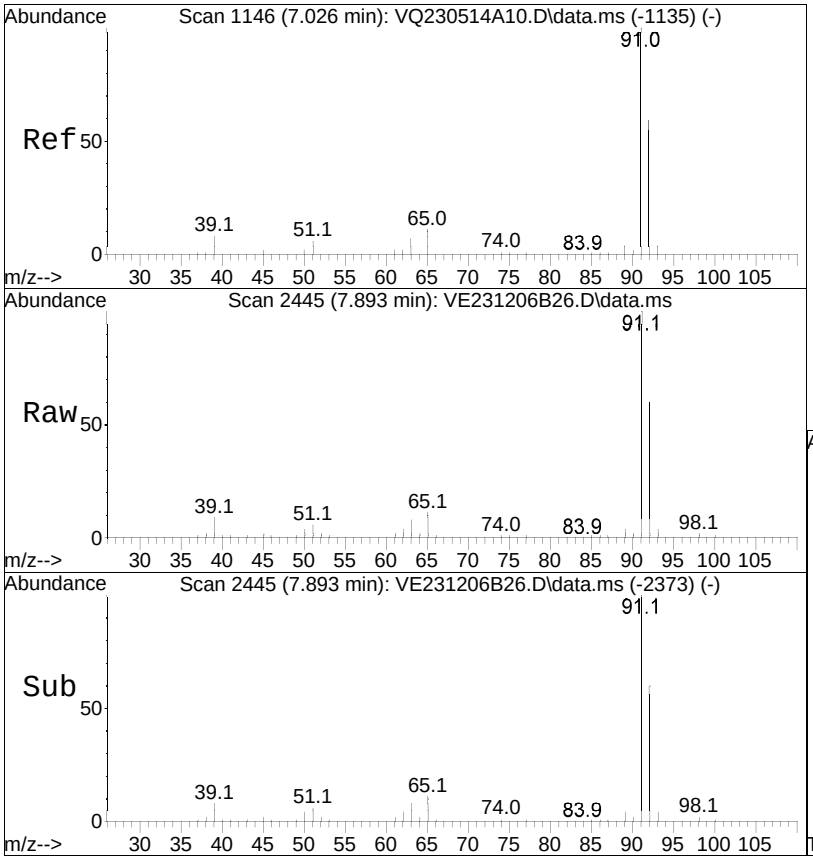


#62
cis-1,3-Dichloropropene
Concen: 9.79 ug/L
RT: 7.623 min Scan# 2348
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 75 Resp: 78100

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.0	37.6
39	45.7	50.6	75.8#

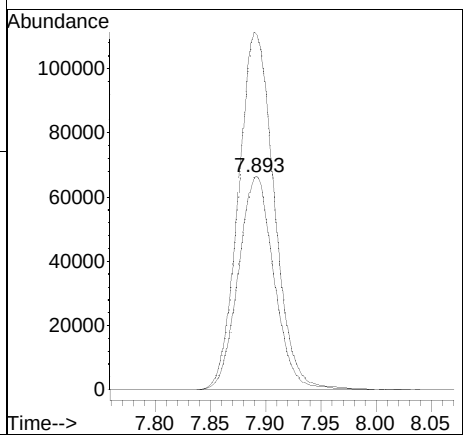


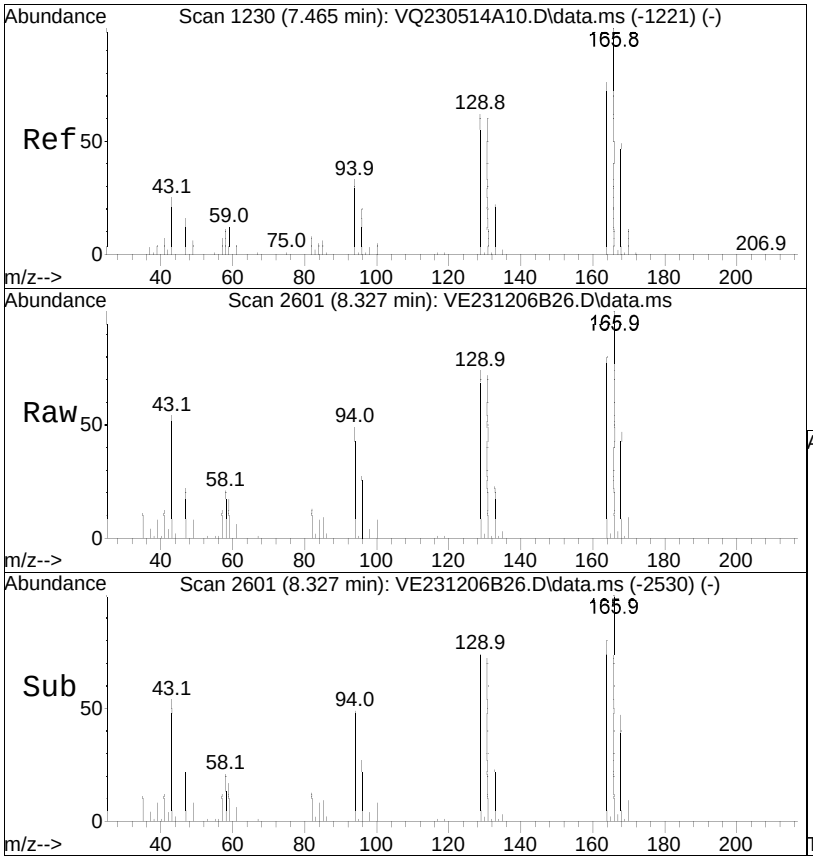


#65
Toluene
Concen: 10.80 ug/L
RT: 7.893 min Scan# 2445
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 92 Resp: 148066

Ion	Ratio	Lower	Upper
92	100		
91	167.9	135.9	203.9

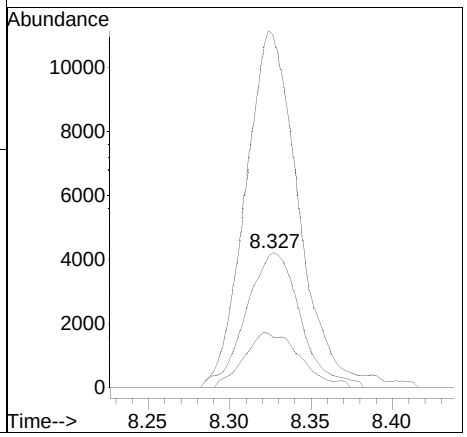


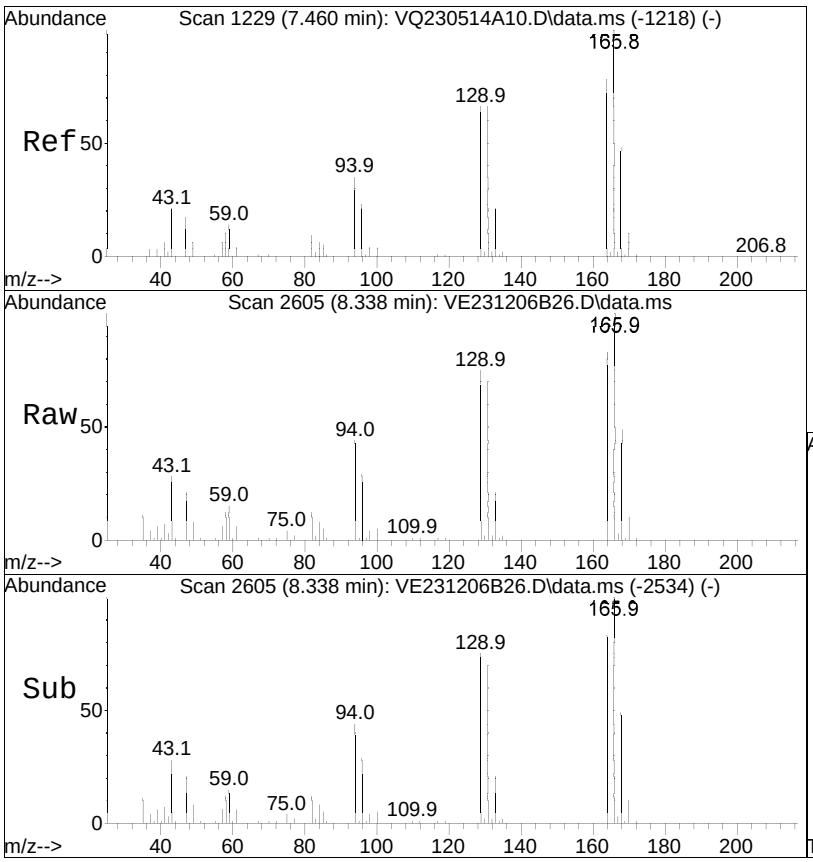


#66
4-Methyl-2-pentanone
Concen: 6.34 ug/L
RT: 8.327 min Scan# 2601
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 58 Resp: 9852

Ion	Ratio	Lower	Upper
58	100		
100	41.9	30.1	45.1
43	254.4	226.7	340.1

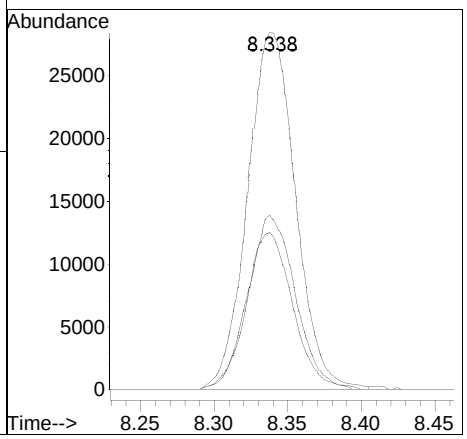


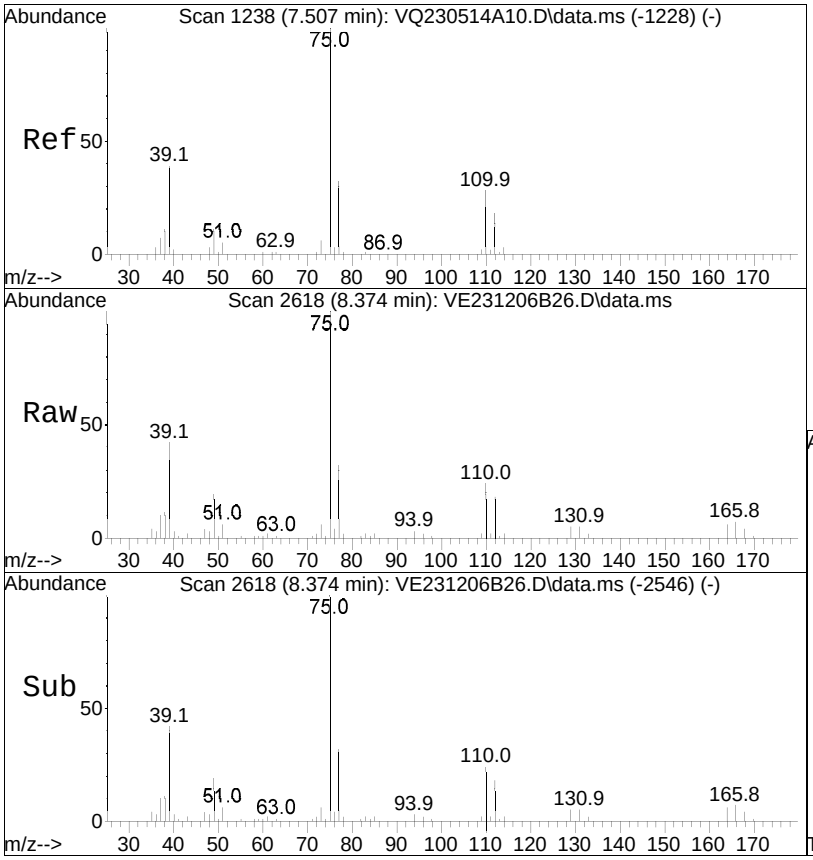


#67
Tetrachloroethene
Concen: 10.46 ug/L
RT: 8.338 min Scan# 2605
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:166 Resp: 64382

Ion	Ratio	Lower	Upper
166	100		
168	48.5	28.0	68.0
94	42.8	27.8	67.8

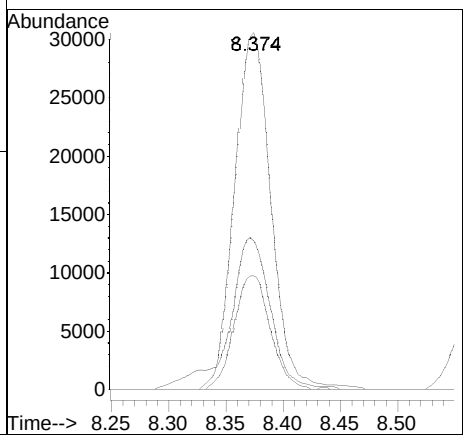


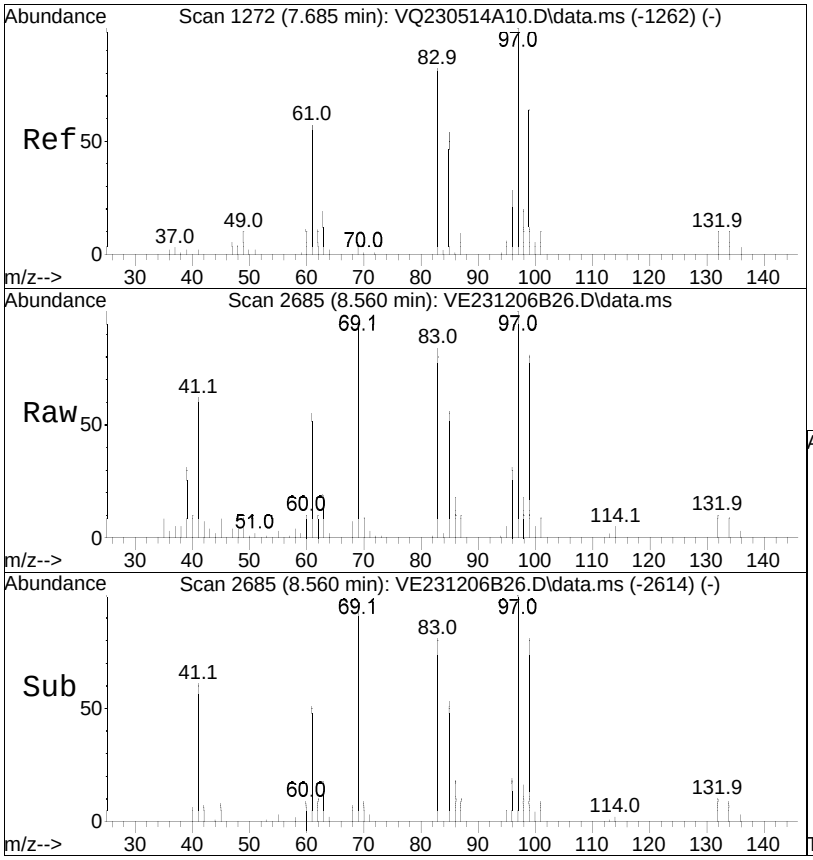


#69
trans-1,3-Dichloropropene
Concen: 9.69 ug/L
RT: 8.374 min Scan# 2618
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 75 Resp: 67275

Ion	Ratio	Lower	Upper
75	100		
77	31.8	11.4	51.4
39	48.2	44.3	84.3

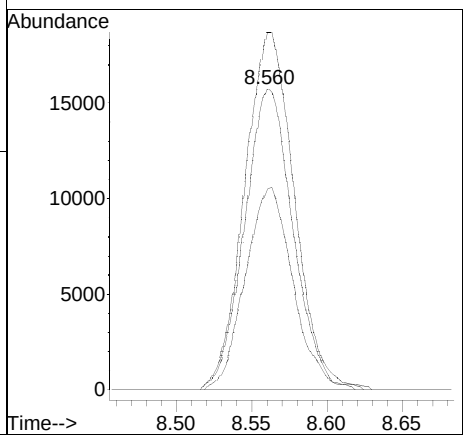


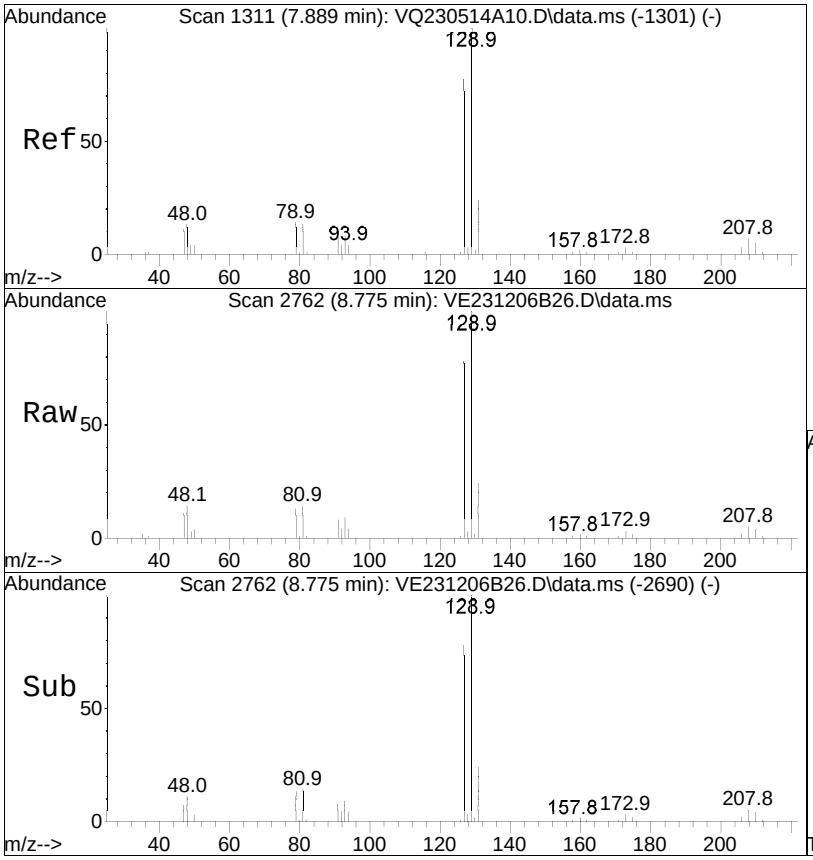


#72
1,1,2-Trichloroethane
Concen: 10.07 ug/L
RT: 8.560 min Scan# 2685
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 83 Resp: 35111

Ion	Ratio	Lower	Upper
83	100		
97	121.4	99.2	139.2
85	66.1	48.7	88.7

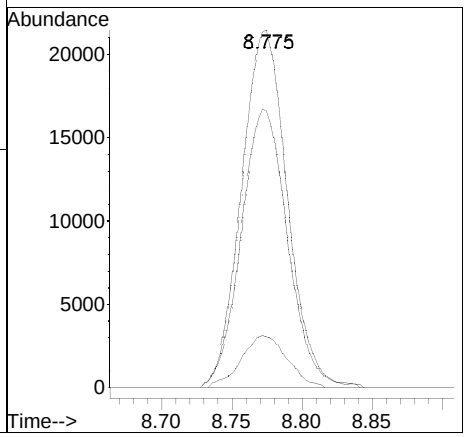


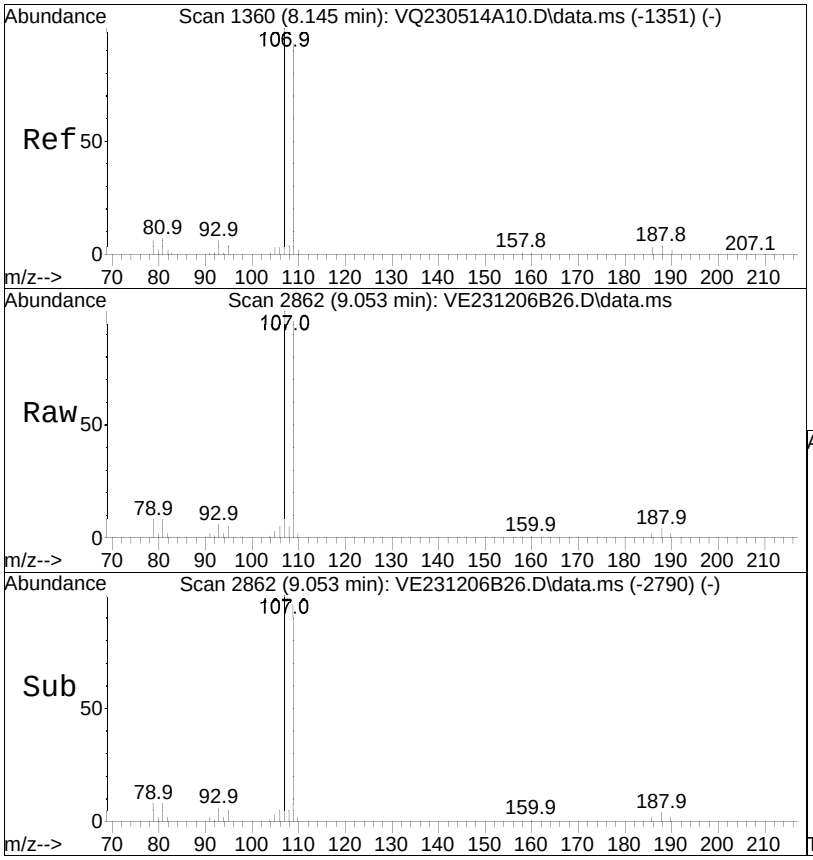


#73
Chlorodibromomethane
Concen: 9.85 ug/L
RT: 8.775 min Scan# 2762
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:129 Resp: 48418

Ion	Ratio	Lower	Upper
129	100		
81	14.8	0.0	36.2
127	78.8	58.0	98.0

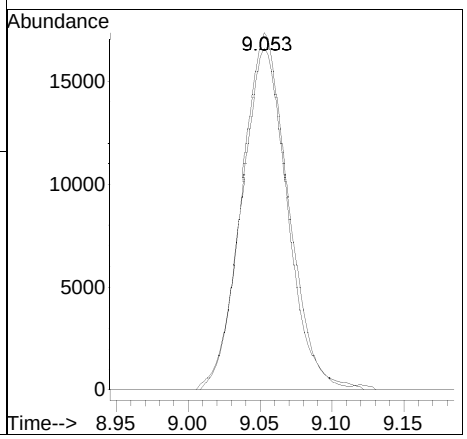


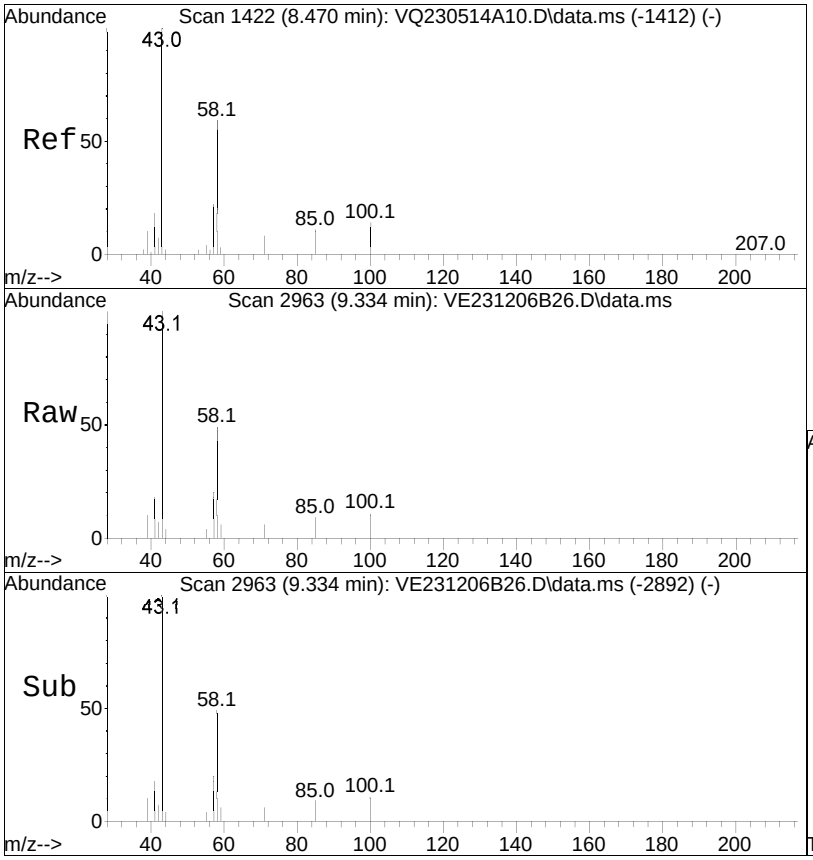


#75
1,2-Dibromoethane
Concen: 9.73 ug/L
RT: 9.053 min Scan# 2862
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:107 Resp: 38981

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.7	113.5

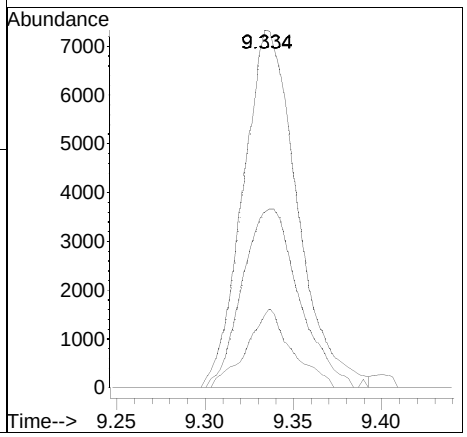


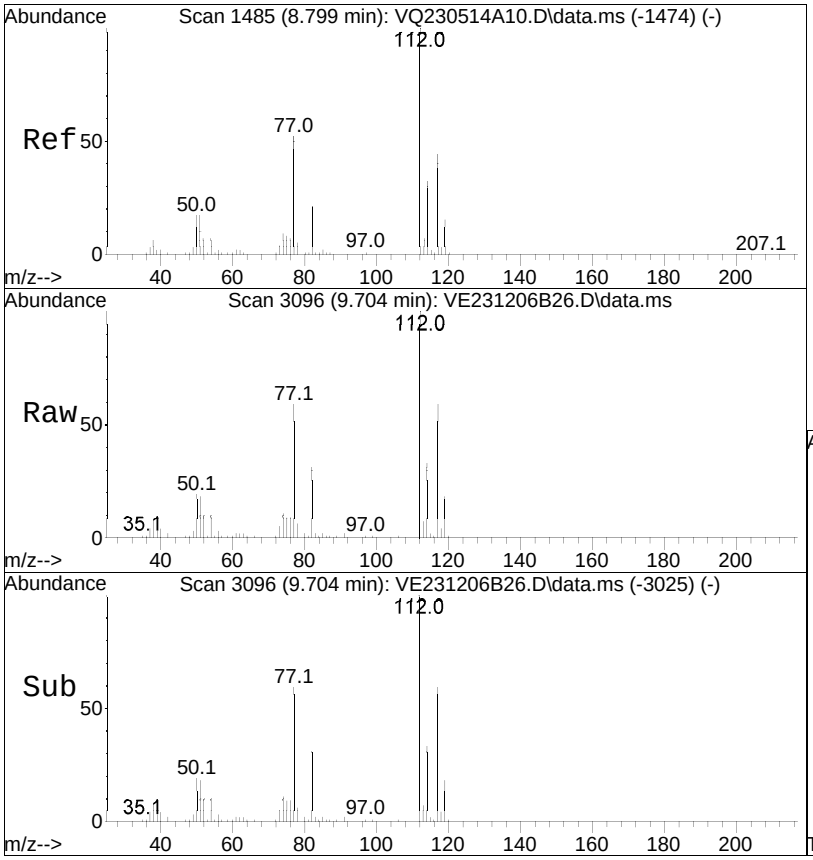


#77
2-Hexanone
Concen: 5.65 ug/L
RT: 9.334 min Scan# 2963
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 43 Resp: 15612

Ion	Ratio	Lower	Upper
43	100		
58	52.1	38.2	57.4
57	18.5	14.1	21.1

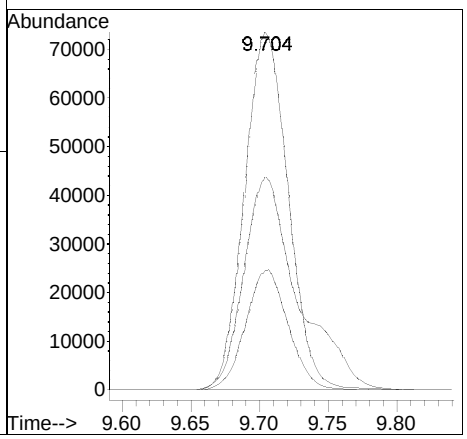


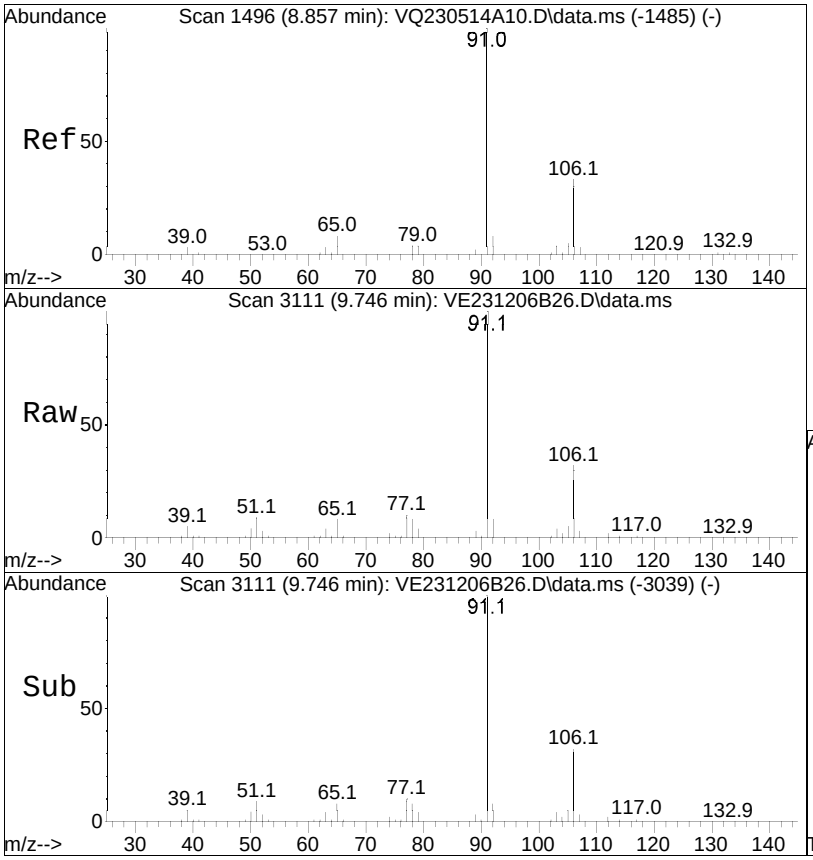


#78
Chlorobenzene
Concen: 10.72 ug/L
RT: 9.704 min Scan# 3096
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:112 Resp: 160941

Ion	Ratio	Lower	Upper
112	100		
77	74.3	50.7	76.1
114	32.9	25.6	38.4

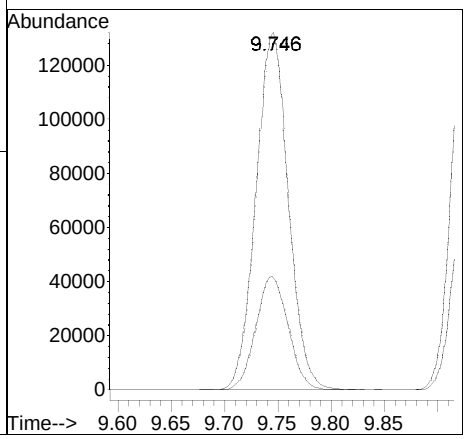


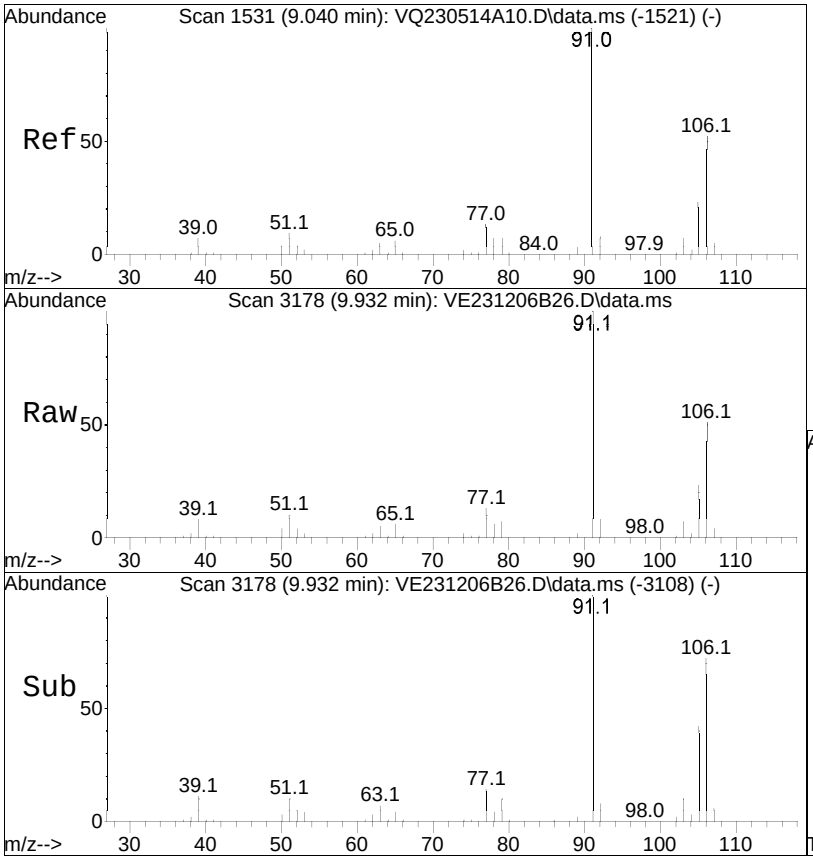


#79
Ethylbenzene
Concen: 10.63 ug/L
RT: 9.746 min Scan# 3111
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 91 Resp: 279588

Ion	Ratio	Lower	Upper
91	100		
106	31.8	24.6	36.8

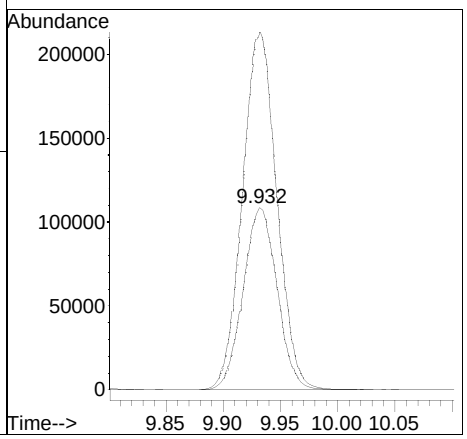


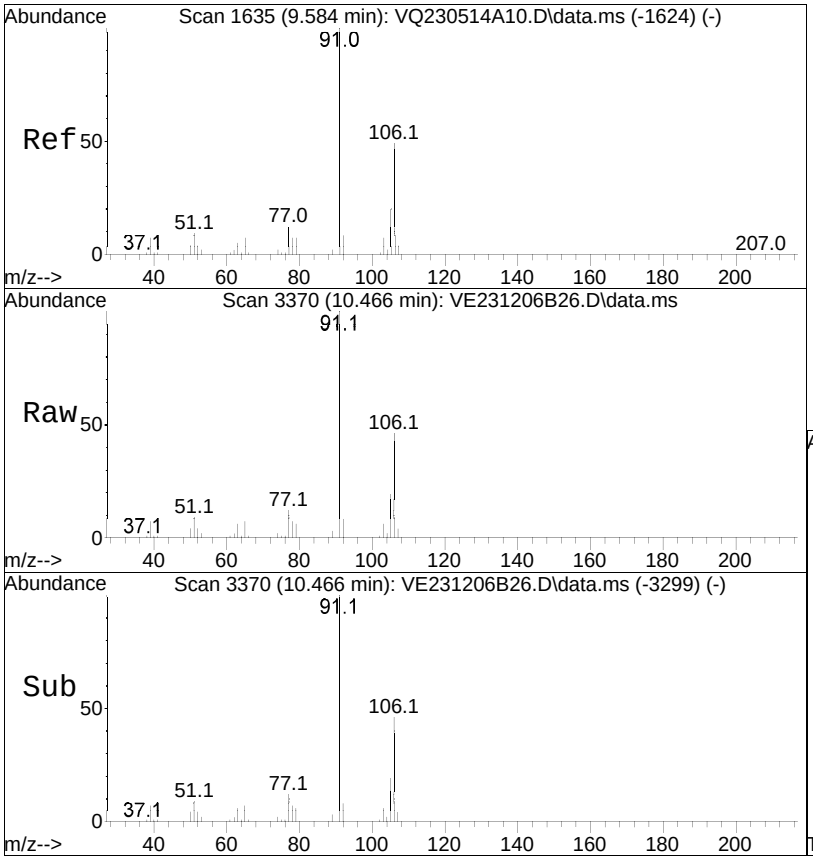


#81
p/m Xylene
Concen: 22.09 ug/L
RT: 9.932 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:106 Resp: 222177

Ion	Ratio	Lower	Upper
106	100		
91	197.9	165.5	248.3

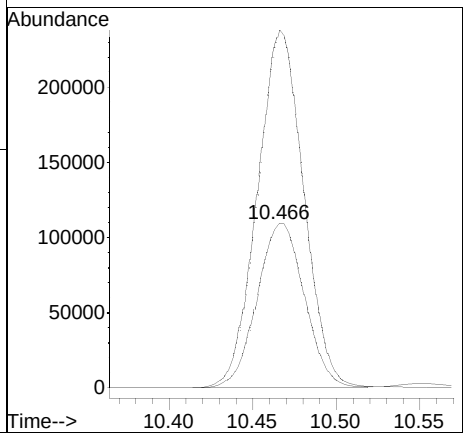


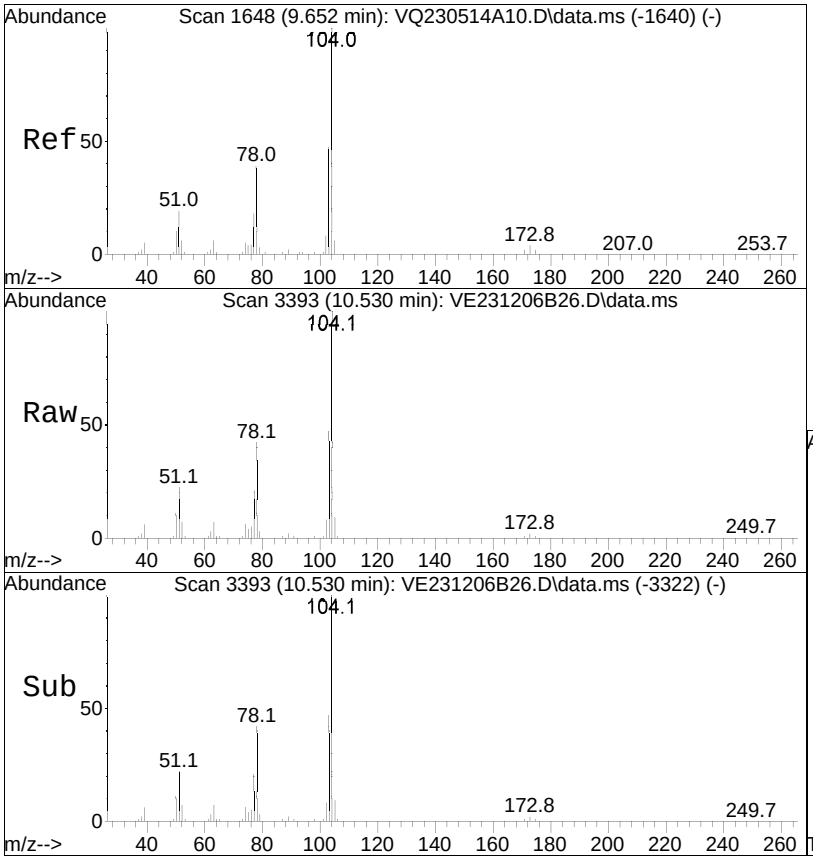


#82
o Xylene
Concen: 22.15 ug/L
RT: 10.466 min Scan# 3370
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:106 Resp: 214961

Ion	Ratio	Lower	Upper
106	100		
91	211.6	176.5	264.7

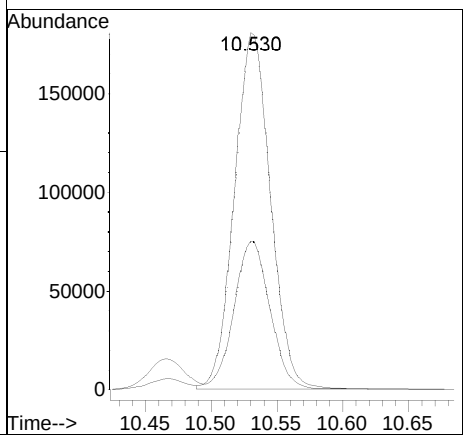


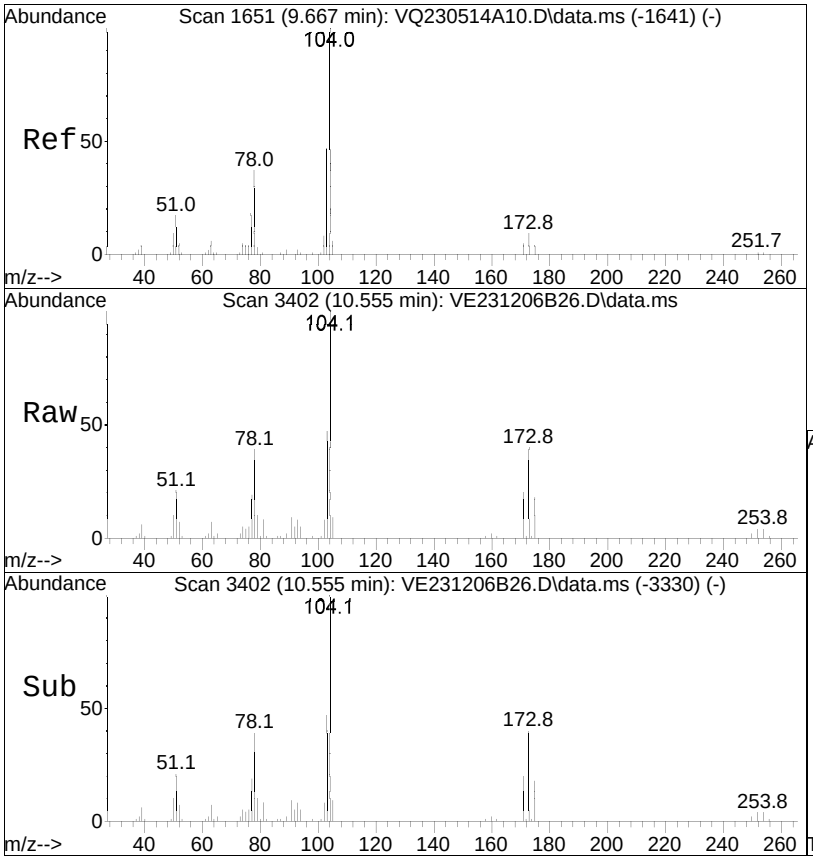


#83
Styrene
Concen: 22.26 ug/L
RT: 10.530 min Scan# 3393
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:104 Resp: 342392

Ion	Ratio	Lower	Upper
104	100		
78	41.6	37.5	56.3

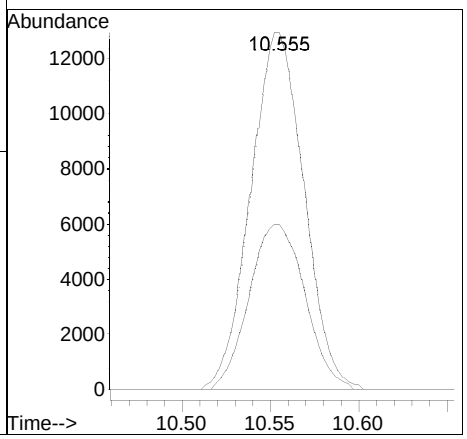


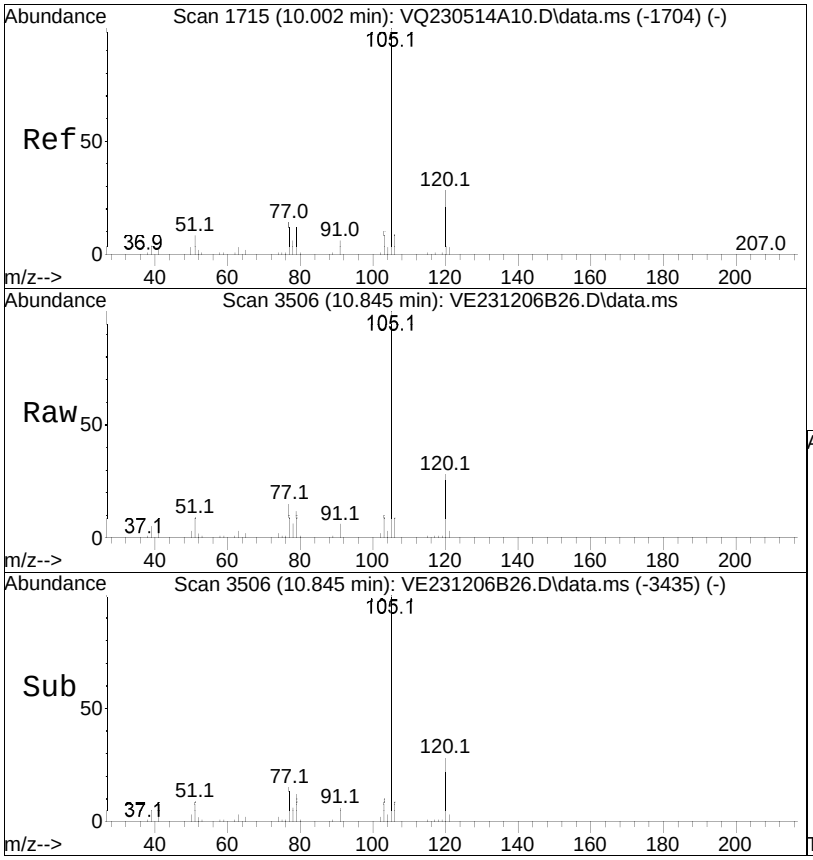


#85
Bromoform
Concen: 8.90 ug/L
RT: 10.555 min Scan# 3402
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:173 Resp: 27054

Ion	Ratio	Lower	Upper
173	100		
175	48.6	29.0	69.0

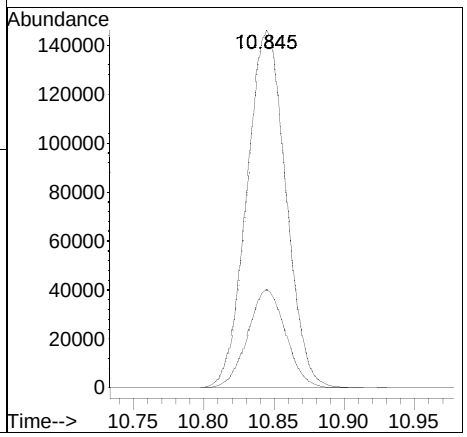


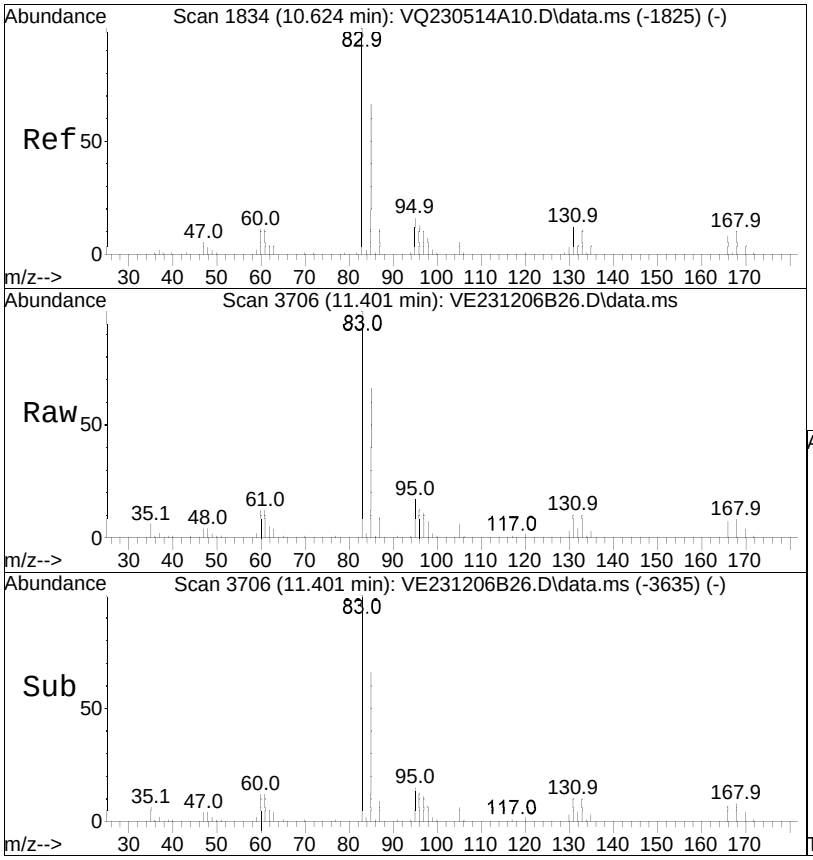


#87
Isopropylbenzene
Concen: 9.92 ug/L
RT: 10.845 min Scan# 3506
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:105 Resp: 279473

Ion	Ratio	Lower	Upper
105	100		
120	26.9	6.5	46.5

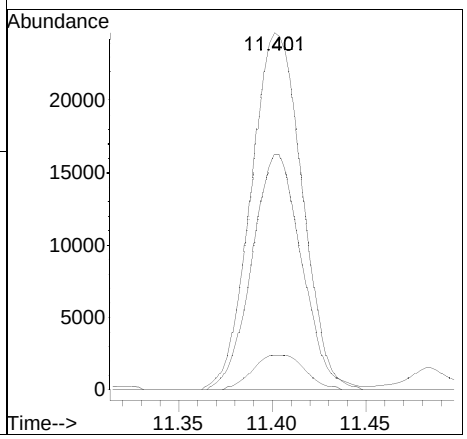


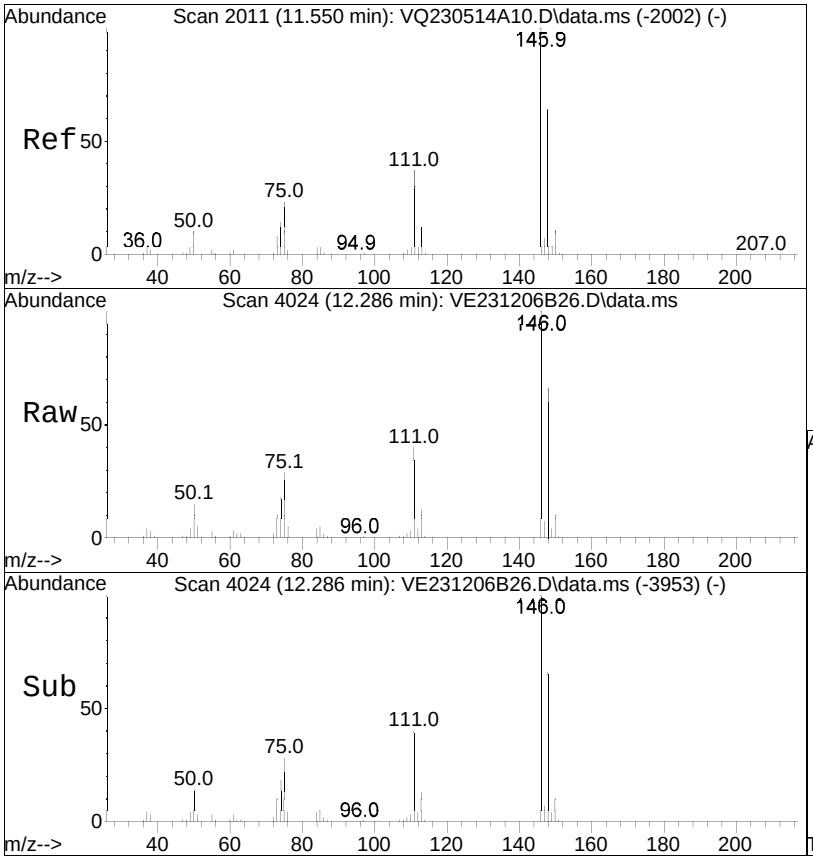


#92
1,1,2,2-Tetrachloroethane
Concen: 10.44 ug/L
RT: 11.401 min Scan# 3706
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion: 83 Resp: 46663

Ion	Ratio	Lower	Upper
83	100		
131	10.0	0.0	31.0
85	64.5	45.4	85.4

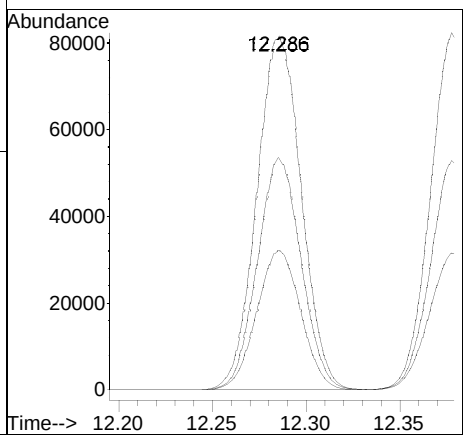


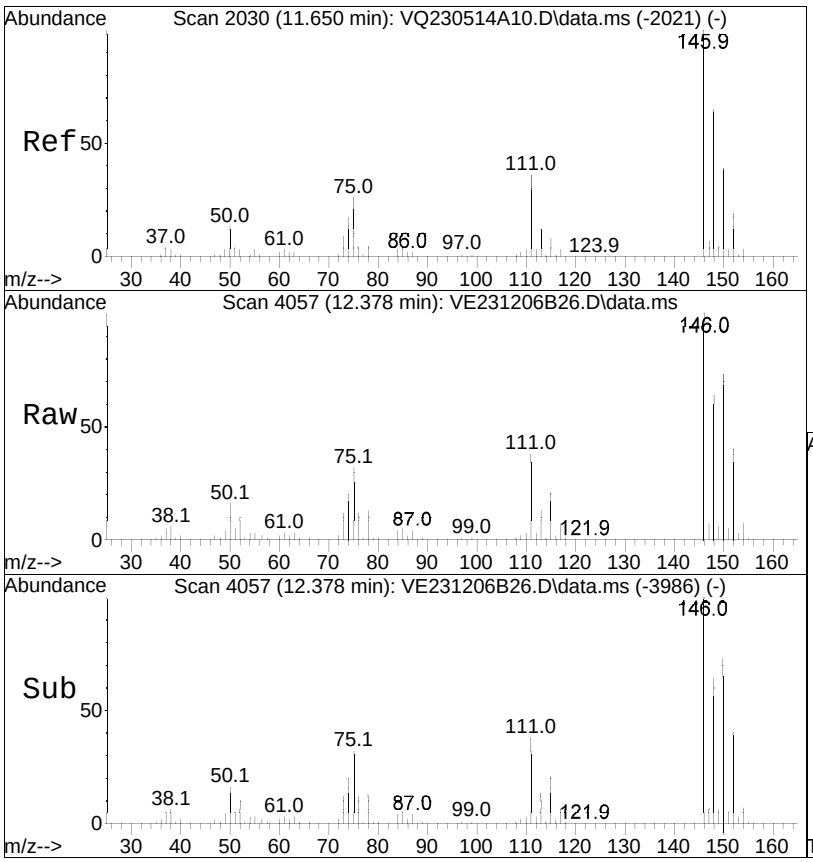


#105
1,3-Dichlorobenzene
Concen: 10.15 ug/L
RT: 12.286 min Scan# 4024
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:146 Resp: 134959

Ion	Ratio	Lower	Upper
146	100		
111	38.9	27.0	56.0
148	64.4	41.2	85.6

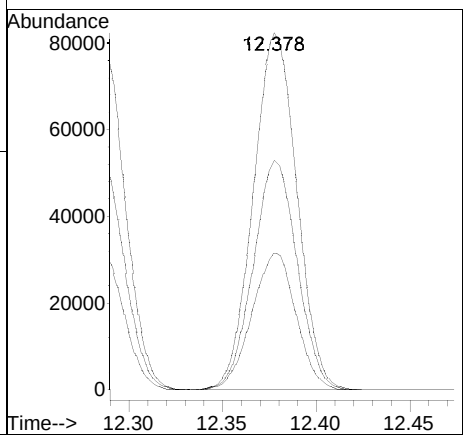


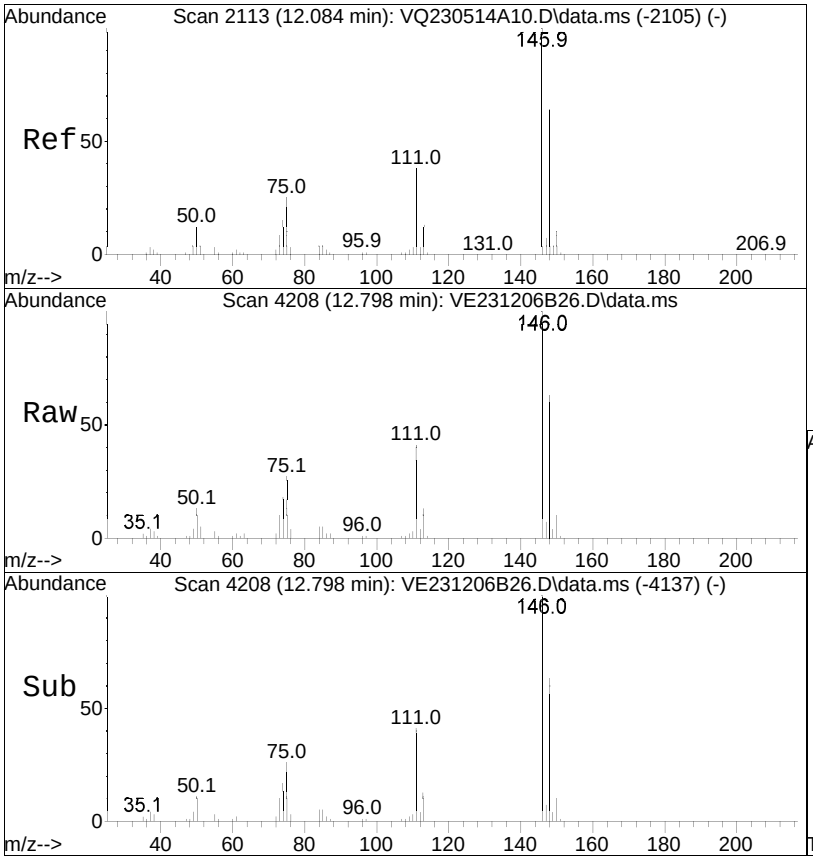


#106
1,4-Dichlorobenzene
Concen: 9.99 ug/L
RT: 12.378 min Scan# 4057
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:146 Resp: 133166

Ion	Ratio	Lower	Upper
146	100		
111	38.8	32.3	48.5
148	64.9	51.0	76.6

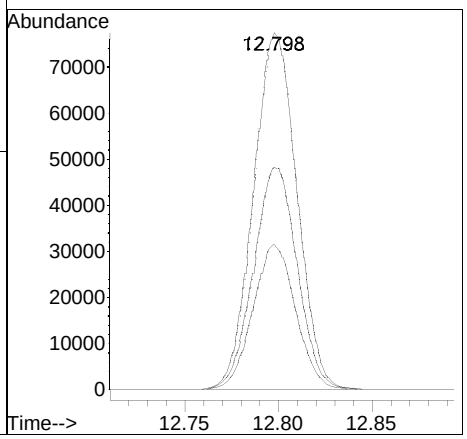


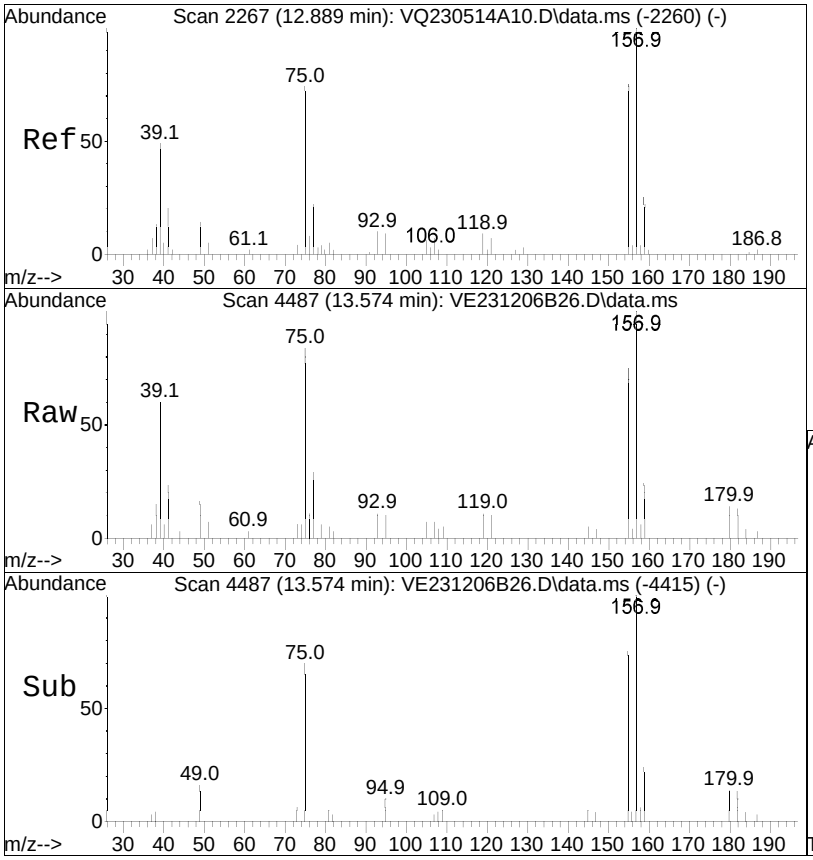


#109
1,2-Dichlorobenzene
Concen: 10.06 ug/L
RT: 12.798 min Scan# 4208
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:146 Resp: 124035

Ion	Ratio	Lower	Upper
146	100		
111	40.1	27.7	57.5
148	62.6	41.3	85.7

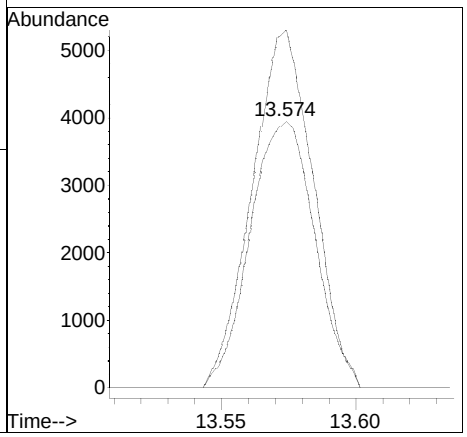


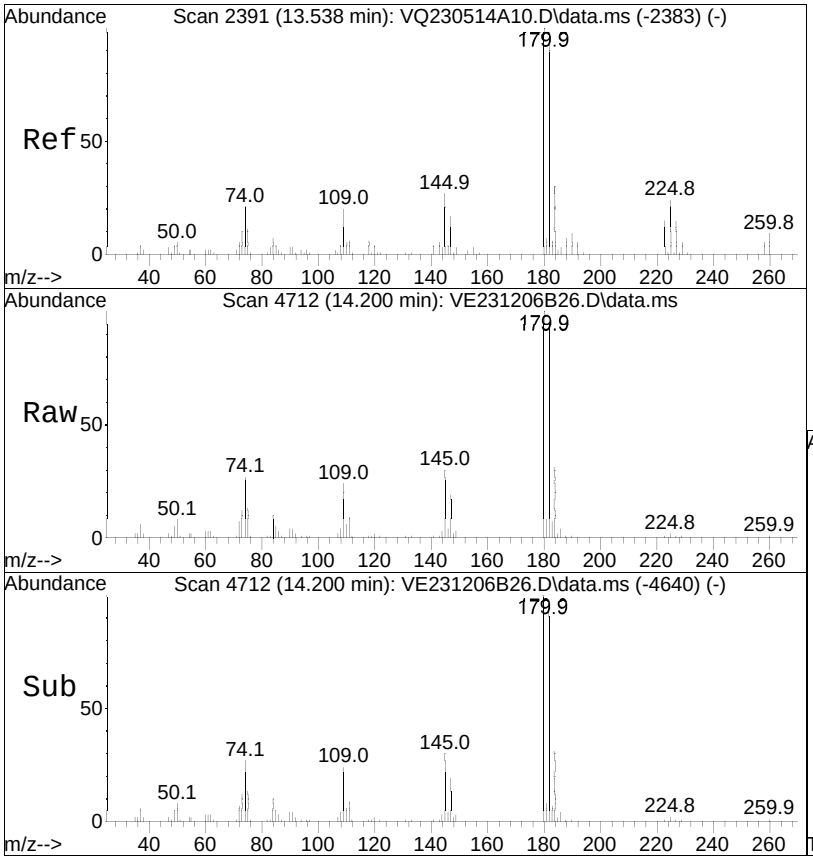


#111
1,2-Dibromo-3-chloropropane
Concen: 9.23 ug/L
RT: 13.574 min Scan# 4487
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:155 Resp: 6557

Ion	Ratio	Lower	Upper
155	100		
157	127.3	100.1	150.1

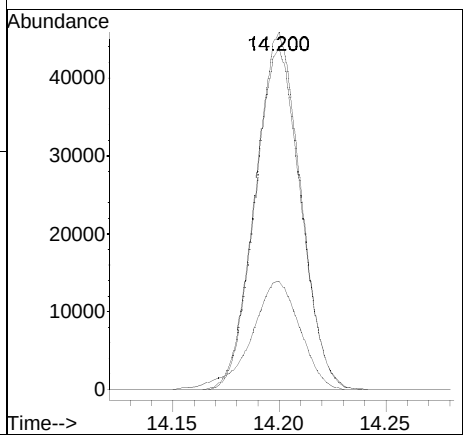


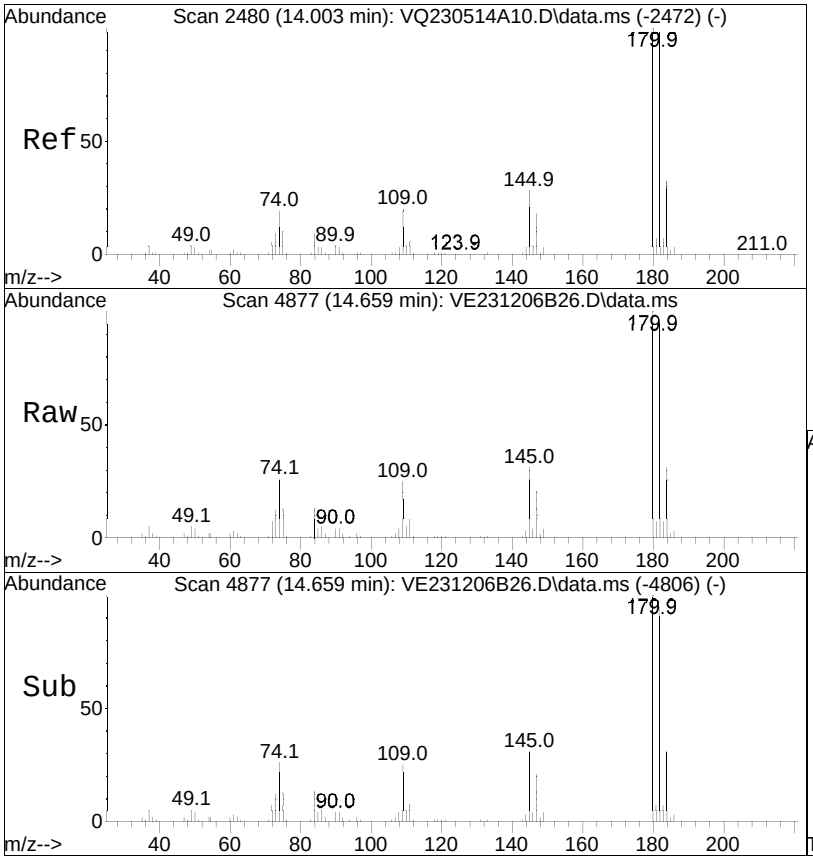


#114
1,2,4-Trichlorobenzene
Concen: 8.97 ug/L
RT: 14.200 min Scan# 4712
Delta R.T. -0.000 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:180 Resp: 67363

Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.0	114.0
145	33.0	28.4	42.6

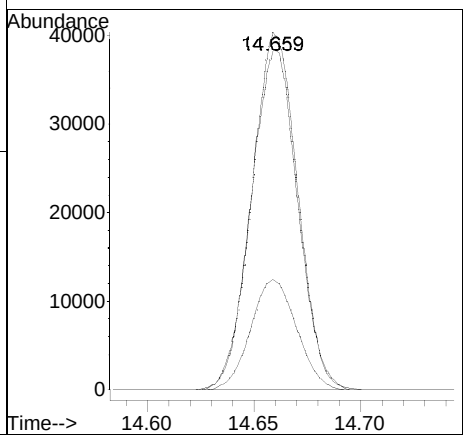




#116
1,2,3-Trichlorobenzene
Concen: 9.14 ug/L
RT: 14.659 min Scan# 4877
Delta R.T. -0.003 min
Lab File: VE231206B26.D
Acq: 6 Dec 2023 7:33 pm

Tgt Ion:180 Resp: 59833

Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.5	114.7
145	31.0	26.6	39.8



Manual Integration Report

Data Path	: K:\Elaine\2023\231206B\	QMethod	: Elaine_231127N_8260.m
Data File	: VE231206B26.D	Operator	: ELAINE:MJV
Date Inj'd	: 12/6/2023 7:33 pm	Instrument	: Elaine
Sample	: WG1860843-7,31,10,10,,A2	Quant Date	: 12/6/2023 8:22 pm

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

Calculation of Volatile Organic Compounds

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

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

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

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

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 07 2023, 11:33 am

Work Group: WG1860843 for Department: 31 GC/MS - Volatiles

Created: 07-DEC-23 Due: Operator: mjv

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2370783-01	MW-1S	S	NYTCL-8260-R2	WATER	DONE	U	1213	1207	S0	Vial-B
L2370783-02	MW-2S	S	NYTCL-8260-R2	WATER	DONE	U	1213	1207	S0	Vial-B
L2370783-03	MW-3S	S	NYTCL-8260-R2	WATER	DONE	U	1213	1207	S0	Vial-B
L2370783-04	MW-4D	S	NYTCL-8260-R2	WATER	DONE	U	1213	1207	S0	Vial-B
L2370783-05	MW-5S	S	NYTCL-8260-R2	WATER	DONE	U	1213	1207	S0	Vial-B
L2370783-06	MW-6D	S	NYTCL-8260-R2	WATER	DONE	U	1213	1207	S0	Vial-B
L2370783-07	MW-7S	S	NYTCL-8260-R2	WATER	DONE	U	1213	1207	S0	Vial-B
L2370783-08	MW-8S	S	NYTCL-8260-R2	WATER	DONE	U	1213	1207	S0	Vial-B
L2370783-09	DUP	S	NYTCL-8260-R2	WATER	DONE	U	1213	1207	S0	Vial-B
L2370783-11	EB	S	NYTCL-8260-R2	WATER	DONE	U	1213	1207	S0	Vial-B
L2371040-01	MW-1	S	NYTCL-8260-R2	WATER	DONE	U	1213	1207	S0	Vial-B
L2371040-02	MW-2	S	NYTCL-8260-R2	WATER	DONE	U	1212	1207	S0	Vial-B
L2371040-03	MW-3	S	NYTCL-8260-R2	WATER	DONE	U	1212	1207	S0	Vial-B
L2371040-04	MW-4	S	NYTCL-8260-R2	WATER	DONE	U	1212	1207	S0	Vial-B
L2371040-05	DUP	S	NYTCL-8260-R2	WATER	DONE	U	1212	1207	S0	Vial-B
L2371040-06	EQUIPMENT BLANK	S	NYTCL-8260-R2	WATER	DONE	U	1212	1207	S0	Vial-B
L2371040-07	TRIP BLANK	S	NYTCL-8260-R2	WATER	DONE	U	1212	1207	S0	Vial-B
WG1860843-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1860843-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1860843-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DONE	U				
WG1860843-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DONE	U				
WG1860843-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DONE	U				
WG1860843-6	Matrix Spike	S	NYTCL-8260-R2	WATER	DONE	U				
WG1860843-7	Matrix Spike Duplica	S	NYTCL-8260-R2	WATER	DONE	U				
WG1860843-8	Matrix Spike	S	NYTCL-8260-R2	WATER	DONE	U				
WG1860843-9	Matrix Spike Duplica	S	NYTCL-8260-R2	WATER	DONE	U				

Comments:

WG1860843-4	WG1860843-3
WG1860843-6	L2370783-04
WG1860843-7	L2370783-04
WG1860843-8	L2371040-03
WG1860843-9	L2371040-03

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 07 2023, 11:33 am

Work Group: WG1861020 for Department: 31 GC/MS - Volatiles

Created: 07-DEC-23 Due: Operator: mjv

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2370774-03	FB01_113023	S	NYTCL-8260	WATER	DONE	U	1214	1207	S0	Vial-B
L2370774-06	TB01_113023	S	NYTCL-8260	WATER	DONE	U	1214	1207	S0	Vial-B
L2370783-12	TRIP BLANK	S	NYTCL-8260-R2	WATER	DONE	U	1213	1207	S0	Vial-B
L2372059-05	TRIP BLANK	S	NYCP51-8260	WATER	DONE	U	1218	1207	3A	Vial-B
WG1861020-1	MS BFB Tune Standard	S	NYTCL-8260	WATER	DONE	U				
WG1861020-1	MS BFB Tune Standard	S	NYCP51-8260	WATER	DONE	U				
WG1861020-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1861020-2	Continuing Calibrati	S	NYCP51-8260	WATER	DONE	U				
WG1861020-2	Continuing Calibrati	S	NYTCL-8260	WATER	DONE	U				
WG1861020-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1861020-3	Laboratory Control S	S	NYTCL-8260	WATER	DONE	U				
WG1861020-3	Laboratory Control S	S	NYCP51-8260	WATER	DACQ	U				
WG1861020-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1861020-4	LCS Duplicate	S	NYTCL-8260	WATER	DONE	U				
WG1861020-4	LCS Duplicate	S	NYCP51-8260	WATER	DACQ	U				
WG1861020-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DACQ	U				
WG1861020-5	Laboratory Method Bl	S	NYTCL-8260	WATER	DONE	U				
WG1861020-5	Laboratory Method Bl	S	NYCP51-8260	WATER	DACQ	U				
WG1861020-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DACQ	U				

Comments:

WG1861020-4 WG1861020-3

				Method	
Inst:	Elaine	BFB:	V10060	GC:	8260_LUMIN
Initials:	MAG	IS/SS:	V10069	Autosampler:	8260water10mL
Date:	**11/27/23**	ICAL:	V10085C,V10086	Concentrator:	8260water10mL
Run:	**P**	ICV:	V10064, V10095, V10096, V10083, V10081, V10082	QC:	Seq:

Vial	DATA FILE	SAMPLE	
1	VE231127PBF1	BFB TUNE	
1	VE231127PBF2	BFB TUNE	
2	VE231127PBF3	BFB TUNE	
3	VE231127P01	BLK	
4	VE231127P02	BLK	
5	VE231127P03	I8260STD0.19PPB	
6	VE231127P04	I8260STD0.19PPB	
7	VE231127P05	I8260STD0.5PPB	
8	VE231127P06	I8260STD0.5PPB	
9	VE231127P07	I8260STD2PPB	
10	VE231127P08	I8260STD2PPB	
11	VE231127P09	I8260STD10PPB	
12	VE231127P10	I8260STD30PPB	
13	VE231127P11	I8260STD80PPB	
14	VE231127P12	I8260STD120PPB	
15	VE231127P13	I8260STD200PPB	
16	VE231127P14	BLK	
17	VE231127P15	BLK	
18	VE231127P16	BLK	
19	VE231127P17	BLK	
20	VE231127P18	C8260STD10PPB	
21	VE231127P19	C8260STD10PPB	
22	VE231127P20	BLK	
23	VE231127P21	BLK	
24	VE231127P22	BLK	

Method

Inst: Elaine BFB: V10060 GC: 8260_LUMIN

Initials: PID IS/SS: V10069 Autosampler: 8260water10mL

Date: **12/06/23** ICAL: V10085B,V10111 Concentrator: 8260water10mL

Run: **B** QC: _____ Seq: _____

Vial	DATA FILE	SAMPLE			
1	VE231206BBF1	BFB TUNE	09:07		
1	VE231206B01	8260 CCAL	QC FAILS		
2	VE231206B02	8260 CCAL	LCS		
3	VE231206B03	8260 CCAL	LCSD		
4	VE231206B04	BLK			
5	VE231206B05	METHOD BLK			
6	VE231206B06	L2370783-01,31,10,10,,A		NY/R2	pH<2
7	VE231206B07	L2370783-02,31,10,10,,A		NY/R2	pH<2
8	VE231206B08	L2371559-01R,31,10,10,,C,R3A		NJ/BENZ/TBA/MTBE	pH<2
9	VE231206B09	d STD BENZ			
10	VE231206B10	L2370783-03,31,10,10,,A		NY/R2	pH<2
11	VE231206B11	L2370783-04,31,10,10,,A		NY/R2	pH<2
12	VE231206B12	L2370783-05,31,10,10,,A		NY/R2	pH<2
13	VE231206B13	L2370783-06,31,10,10,,A		NY/R2	pH<2
14	VE231206B14	L2370783-07,31,10,10,,A		NY/R2	pH<2
15	VE231206B15	L2370783-08,31,10,10,,A		NY/R2	pH<2
16	VE231206B16	L2370783-09,31,10,10,,A		NY/R2	pH<2
17	VE231206B17	L2370783-11,31,10,10,,A		NY/R2	pH<2
18	VE231206B18	L2371040-01,31,10,10,,A		NY/R2	pH<2
19	VE231206B19	L2371040-02,31,10,10,,A		NY/R2	pH<2
20	VE231206B20	L2371040-03,31,10,10,,A		NY/R2	pH<2
21	VE231206B21	L2371040-04,31,10,10,,A		NY/R2	pH<2
22	VE231206B22	L2371040-05,31,10,10,,A		NY/R2	pH<2
23	VE231206B23	L2371040-06,31,10,10,,A		NY/R2	pH<2
24	VE231206B24	L2371040-07,31,10,10,,A		NY/R2 TB	pH<2
25	VE231206B25	L2370783-04MS,31,10,10,,A1		NY/R2	pH<2
26	VE231206B26	L2370783-04MSD,31,10,10,,A2		NY/R2	pH<2
27	VE231206B27	L2371040-03MS,31,10,10,,A1		NY/R2	pH<2
28	VE231206B28	L2371040-03MSD,31,10,10,,A2		NY/R2	pH<2
29	VE231206B29	HSTD			
30	VE231206B30	BLK			
31	VE231206B31	BLK			

Method

Inst: Elaine BFB: V10060 GC: 8260_LUMIN

Initials: MJV IS/SS: V10069 Autosampler: 8260water10mL

Date: **12/07/23** ICAL: V10085B,V10111 Concentrator: 8260water10mL

Run: **A** QC: _____ Seq: _____

Vial	DATA FILE	SAMPLE			
1	VE231207ABF1	BFB TUNE 06:13			
1	VE231207A01	8260 CCAL LCS			
2	VE231207A02	8260 CCAL LCSD			
3	VE231207A03	8260 CCAL			
4	VE231207A04	BLK			
5	VE231207A05	METHOD BLK			
6	VE231207A06	L2370783-12,31,10,10,,A	NY/R2	TB	pH<2
7	VE231207A07	L2372059-05,31,10,10,,A,R3A	NY CP-51	TB	pH<2
8	VE231207A08	L2370774-03,31,10,10,,A	NY CURVE	FB	pH<2
9	VE231207A09	L2370774-06,31,10,10,,A	NY CURVE	TB	pH<2
10	VE231207A10	L2370593-01,31,10,10,,C	NJ/15	SED	pH<2
11	VE231207A11	d STD BENZ			
12	VE231207A12	L2370781-14,31,10,10,,C	NY/R2		
13	VE231207A13	L2370562-03,31,10,10,,C	NJ/15		
14	VE231207A14	L2370562-02D,31,4.0,10,,C	NJ/15	FOAM	pH<2
15	VE231207A15	L2370781-14MS,31,10,10,,C1	NY/R2		
16	VE231207A16	L2370781-14MSD,31,10,10,,C2	NY/R2		
17	VE231207A17	L2371086-04MS,31,10,10,,C1	NJ/15		
18	VE231207A18	L2371086-04MSD,31,10,10,,B1	NJ/15		
19	VE231207A19	d STD BENZ			
20	VE231207A20	L2371111-13,31,10,10,,A	PA SHORT	TB	
21	VE231207A21	L2370852-09,31,10,10,,A,R3E	PA 8260		
22	VE231207A22	L2371135-06,31,10,10,,A	NY/R2	TB	
23	VE231207A23	L2371135-01,31,10,10,,A	NY/R2	SED A+C	pH>2
24	VE231207A24	L2371135-07,31,10.0,10,,A	NY/R2		
25	VE231207A25	L2371135-02,31,10,10,,A	NY/R2		
26	VE231207A26	L2371135-03,31,10,10,,A	NY/R2		
27	VE231207A27	L2371135-04,31,10,10,,A	NY/R2		
28	VE231207A28	L2371135-05,31,10,10,,A	NY/R2		
29	VE231207A29	d STD BENZ			
30	VE231207A30	BLK			
31	VE231207A31	BLK			

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1859049-2 **Analysis Date** : 12/06/23 17:30	**File ID**	: 59049-2
LCSD Sample ID	: WG1859049-3 **Analysis Date** : 12/06/23 17:56	**File ID**	: 59049-3

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Bis(2-chloroethyl)ether	18	11.	63		18	10.	58		8	40-140	30
3,3'-Dichlorobenzidine	18	11.	60		18	9.6	53		12	40-140	30
2,4-Dinitrotoluene	18	11.	59		18	9.9	54		9	48-143	30
2,6-Dinitrotoluene	18	11.	62		18	10.	56		10	40-140	30
4-Chlorophenyl phenyl ether	18	12.	65		18	11.	59		10	40-140	30
4-Bromophenyl phenyl ether	18	12.	67		18	11.	60		11	40-140	30
Bis(2-chloroisopropyl)ether	18	9.8	54		18	9.0	50		8	40-140	30
Bis(2-chloroethoxy)methane	18	11.	62		18	10.	58		7	40-140	30
Hexachlorocyclopentadiene	18	7.0	39	Q	18	6.4	35	Q	11	40-140	30
Isophorone	18	12.	64		18	10.	58		10	40-140	30
Nitrobenzene	18	11.	63		18	10.	56		12	40-140	30
NDPA/DPA	18	12.	67		18	11.	60		11	40-140	30
n-Nitrosodi-n-propylamine	18	12.	64		18	10.	58		10	29-132	30
Bis(2-ethylhexyl)phthalate	18	13.	70		18	11.	60		15	40-140	30
Butyl benzyl phthalate	18	12.	65		18	10.	57		13	40-140	30
Di-n-butylphthalate	18	11.	62		18	10.	55		12	40-140	30
Di-n-octylphthalate	18	12.	67		18	11.	60		11	40-140	30
Diethyl phthalate	18	11.	63		18	10.	58		8	40-140	30
Dimethyl phthalate	18	11.	62		18	10.	57		8	40-140	30
Biphenyl	18	12.	68		18	11.	61		11	40-140	30
4-Chloroaniline	18	6.9	38	Q	18	5.9	32	Q	17	40-140	30
2-Nitroaniline	18	12.	66		18	11.	60		10	52-143	30
3-Nitroaniline	18	9.8	54		18	9.2	50		8	25-145	30
4-Nitroaniline	18	11.	63		18	10.	58		8	51-143	30
Dibenzofuran	18	12.	67		18	11.	61		9	40-140	30
1,2,4,5-Tetrachlorobenzene	18	13.	70		18	12.	63		11	2-134	30

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client : Alpha Geoscience **Lab Number** : L2370783
Project Name : HUNTINGTON READY MIX **Project Number** : 20116
Matrix (Level) : WATER (LOW)
LCS Sample ID : WG1859049-2 **Analysis Date** : 12/06/23 17:30 **File ID** : 59049-2
LCSD Sample ID : WG1859049-3 **Analysis Date** : 12/06/23 17:56 **File ID** : 59049-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acetophenone	18	12.	68	18	11.	62	9	39-129	30
2,4,6-Trichlorophenol	18	13.	72	18	11.	63	13	30-130	30
p-Chloro-m-cresol	18	12.	66	18	10.	58	13	23-97	30
2-Chlorophenol	18	12.	65	18	11.	59	10	27-123	30
2,4-Dichlorophenol	18	12.	67	18	11.	62	8	30-130	30
2,4-Dimethylphenol	18	8.6	47	18	7.7	42	11	30-130	30
2-Nitrophenol	18	12.	65	18	11.	60	8	30-130	30
4-Nitrophenol	18	8.0	44	18	7.4	41	7	10-80	30
2,4-Dinitrophenol	18	7.6	42	18	7.9	44	5	20-130	30
4,6-Dinitro-o-cresol	18	8.6	47	18	8.5	47	0	20-164	30
Phenol	18	9.8	54	18	8.7	48	12	12-110	30
2-Methylphenol	18	12.	64	18	11.	59	8	30-130	30
3-Methylphenol/4-Methylphenol	18	12.	64	18	10.	56	13	30-130	30
2,4,5-Trichlorophenol	18	12.	69	18	11.	61	12	30-130	30
Carbazole	18	11.	62	18	10.	56	10	55-144	30
Atrazine	18	13.	70	18	11.	60	15	40-140	30
Benzaldehyde	18	13.	69	18	12.	64	8	40-140	30
Caprolactam	18	4.2	23	18	3.9	21	9	10-130	30
2,3,4,6-Tetrachlorophenol	18	12.	67	18	11.	60	11	40-140	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2370783-04	**Analysis Date**	: 12/05/23 03:48
Matrix Spike	: WG1859049-4	**MS Analysis Date**	: 12/05/23 03:01
Matrix Spike Dup	: WG1859049-5	**MSD Analysis Date**	: 12/05/23 03:24

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Bis(2-chloroethyl)ether	ND	18.2	14.	77	18.2	15.	83	7	40-140	30
3,3'-Dichlorobenzidine	ND	18.2	11.	61	18.2	11.	61	0	40-140	30
2,4-Dinitrotoluene	ND	18.2	17.	94	18.2	17.	94	0	48-143	30
2,6-Dinitrotoluene	ND	18.2	16.	88	18.2	17.	94	6	40-140	30
4-Chlorophenyl phenyl ether	ND	18.2	13.	72	18.2	14.	77	7	40-140	30
4-Bromophenyl phenyl ether	ND	18.2	14.	77	18.2	14.	77	0	40-140	30
Bis(2-chloroisopropyl)ether	ND	18.2	16.	88	18.2	17.	94	6	40-140	30
Bis(2-chloroethoxy)methane	ND	18.2	15.	83	18.2	16.	88	6	40-140	30
Hexachlorocyclopentadiene	ND	18.2	9.3J	51	18.2	10.J	55	7	40-140	30
Isophorone	ND	18.2	14.	77	18.2	15.	83	7	40-140	30
Nitrobenzene	ND	18.2	16.	88	18.2	17.	94	6	40-140	30
NDPA/DPA	ND	18.2	14.	77	18.2	14.	77	0	40-140	30
n-Nitrosodi-n-propylamine	ND	18.2	15.	83	18.2	16.	88	6	29-132	30
Bis(2-ethylhexyl)phthalate	ND	18.2	20.	110	18.2	20.	110	0	40-140	30
Butyl benzyl phthalate	ND	18.2	18.	99	18.2	18.	99	0	40-140	30
Di-n-butylphthalate	ND	18.2	16.	88	18.2	16.	88	0	40-140	30
Di-n-octylphthalate	ND	18.2	20.	110	18.2	19.	100	5	40-140	30
Diethyl phthalate	ND	18.2	16.	88	18.2	16.	88	0	40-140	30
Dimethyl phthalate	ND	18.2	15.	83	18.2	16.	88	6	40-140	30
Biphenyl	ND	18.2	14.	77	18.2	14.	77	0	40-140	30
4-Chloroaniline	ND	18.2	11.	61	18.2	9.6	53	14	40-140	30
2-Nitroaniline	ND	18.2	18.	99	18.2	18.	99	0	52-143	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2370783-04	**Analysis Date**	: 12/05/23 03:48
Matrix Spike	: WG1859049-4	**MS Analysis Date**	: 12/05/23 03:01
Matrix Spike Dup	: WG1859049-5	**MSD Analysis Date**	: 12/05/23 03:24

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
3-Nitroaniline	ND	18.2	14.	77		18.2	14.	77	0	25-145	30
4-Nitroaniline	ND	18.2	16.	88		18.2	16.	88	0	51-143	30
Dibenzofuran	ND	18.2	14.	77		18.2	14.	77	0	40-140	30
1,2,4,5-Tetrachlorobenzene	ND	18.2	12.	66		18.2	13.	72	8	2-134	30
Acetophenone	ND	18.2	13.	72		18.2	14.	77	7	39-129	30
2,4,6-Trichlorophenol	ND	18.2	15.	83		18.2	16.	88	6	30-130	30
p-Chloro-m-cresol	ND	18.2	16.	88		18.2	16.	88	0	23-97	30
2-Chlorophenol	ND	18.2	14.	77		18.2	15.	83	7	27-123	30
2,4-Dichlorophenol	ND	18.2	15.	83		18.2	15.	83	0	30-130	30
2,4-Dimethylphenol	ND	18.2	7.2	40		18.2	6.0	33	18	30-130	30
2-Nitrophenol	ND	18.2	18.	99		18.2	19.	100	5	30-130	30
4-Nitrophenol	ND	18.2	18.	99	Q	18.2	18.	99	Q 0	10-80	30
2,4-Dinitrophenol	ND	18.2	20.	110		18.2	20.	110	0	20-130	30
4,6-Dinitro-o-cresol	ND	18.2	21.	120		18.2	20.	110	5	20-164	30
Phenol	ND	18.2	12.	66		18.2	12.	66	0	12-110	30
2-Methylphenol	ND	18.2	13.	72		18.2	13.	72	0	30-130	30
3-Methylphenol/4-Methylphenol	ND	18.2	14.	77		18.2	14.	77	0	30-130	30
2,4,5-Trichlorophenol	ND	18.2	15.	83		18.2	16.	88	6	30-130	30
Carbazole	ND	18.2	15.	83		18.2	15.	83	0	55-144	30
Atrazine	ND	18.2	18.	99		18.2	19.	100	5	40-140	30
Benzaldehyde	ND	18.2	16.	88		18.2	17.	94	6	40-140	30
Caprolactam	ND	18.2	9.4J	52		18.2	9.4J	52	0	10-130	30

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2370783-04	**Analysis Date**	: 12/05/23 03:48
Matrix Spike	: WG1859049-4	**MS Analysis Date**	: 12/05/23 03:01
Matrix Spike Dup	: WG1859049-5	**MSD Analysis Date**	: 12/05/23 03:24

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
2,3,4,6-Tetrachlorophenol	ND	18.2	15.	83	18.2	15.	83	0	40-140	30

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIX

Lab Number: L2370783
Project Number: 20116
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-1S (L2370783-01)	65	55	78	68	73	67	0
MW-2S (L2370783-02)	63	61	96	83	57	79	0
MW-3S (L2370783-03)	46	43	69	60	40	58	0
MW-4D (L2370783-04)	55	48	69	60	43	60	0
MW-5S (L2370783-05)	48	40	62	56	49	59	0
MW-6D (L2370783-06)	53	42	64	56	55	57	0
MW-7S (L2370783-07)	46	37	60	50	50	51	0
MW-8S (L2370783-08)	54	44	65	57	62	56	0
DUP (L2370783-09)	46	38	59	54	53	55	0
EB (L2370783-11)	51	49	79	69	48	75	0
WG1859049-1BLANK	51	51	71	76	50	77	0
WG1859049-2LCS	61	53	66	66	63	65	0
WG1859049-3LCSD	54	46	57	57	55	55	0
MW-4DMS	76	66	92	76	83	76	0
MW-4DMSD	79	71	95	80	80	77	0

QC LIMITS

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

*** Values outside of QC limits**

Method Blank Summary
Form 4
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1859049-1	**Lab File ID**	: 859049-1
Instrument ID	: SV107	**Extraction Date**	: 12/02/23
Matrix	: WATER	**Analysis Date**	: 12/04/23 23:19
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
MW-1S	L2370783-01	12/05/23 01:49
MW-2S	L2370783-02	12/05/23 02:13
MW-3S	L2370783-03	12/05/23 02:37
MW-4DMS	WG1859049-4	12/05/23 03:01
MW-4DMSD	WG1859049-5	12/05/23 03:24
MW-4D	L2370783-04	12/05/23 03:48
MW-5S	L2370783-05	12/05/23 04:12
MW-6D	L2370783-06	12/05/23 04:36
MW-7S	L2370783-07	12/05/23 05:00
MW-8S	L2370783-08	12/05/23 05:24
DUP	L2370783-09	12/05/23 05:47
EB	L2370783-11	12/05/23 06:11
WG1859049-2LCS	WG1859049-2	12/06/23 17:30
WG1859049-3LCSD	WG1859049-3	12/06/23 17:56

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV106	**Analysis Date**	: 09/02/23 11:50
Tune Standard	: R1737141-35	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	39.7
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	52.7
197	Less than 2.0% of mass 198	0.2
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	24.2
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	16.4
442	Base Peak, or >50% of mass 198	74.7
443	15.0 - 24.0% of mass 442	14.3 (19.1)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL10	R1737141-2	ABNL10	09/02/23 12:13
ABNL9	R1737141-10	ABNL9	09/02/23 12:37
ABNL8	R1737141-9	ABNL8	09/02/23 13:01
ABNL7	R1737141-8	ABNL7	09/02/23 13:24
ABNL6	R1737141-7	ABNL6	09/02/23 13:48
ABNL5	R1737141-6	ABNL5	09/02/23 14:12
ABNL4	R1737141-5	ABNL4	09/02/23 14:36
ABNL3	R1737141-4	ABNL3	09/02/23 14:59
ABNL2	R1737141-3	ABNL2	09/02/23 15:23
ABNL1	R1737141-1	ABNL1	09/02/23 15:47
AP9L10	R1737141-22	AP9L10	09/02/23 16:10
AP9L9	R1737141-30	AP9L9	09/02/23 16:34
AP9L8	R1737141-29	AP9L8	09/02/23 16:58
AP9L7	R1737141-28	AP9L7	09/02/23 17:21
AP9L6	R1737141-27	AP9L6	09/02/23 17:45
AP9L5	R1737141-26	AP9L5	09/02/23 18:09
AP9L4	R1737141-25	AP9L4	09/02/23 18:32
AP9L3	R1737141-24	AP9L3	09/02/23 18:56
AP9L2	R1737141-23	AP9L2	09/02/23 19:20
AP9L1	R1737141-21	AP9L1	09/02/23 19:43
ABN ICV Quant Report	R1737141-31	ABNICV	09/02/23 20:07
AP9 ICV Quant Report	R1737141-33	AP9ICV	09/02/23 20:31

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV106	**Analysis Date**	: 09/02/23 20:54
Tune Standard	: R1737141-34	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.3
68	Less than 2.0% of mass 69	0.3 (.8)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	52.5
197	Less than 2.0% of mass 198	0.4
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	24.7
365	Greater than 1.0% of mass 198	3.1
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	79.3
443	15.0 - 24.0% of mass 442	14.7 (18.6)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL10	R1737141-11	ADPL10	09/02/23 21:18
ADPL9	R1737141-20	ADPL9	09/02/23 21:42
ADPL8	R1737141-19	ADPL8	09/02/23 22:05
ADPL7	R1737141-18	ADPL7	09/02/23 22:29
ADPL6	R1737141-16	ADPL6	09/02/23 22:53
ADPL5	R1737141-17	ADPL5	09/02/23 23:17
ADPL4	R1737141-14	ADPL4	09/02/23 23:40
ADPL3	R1737141-15	ADPL3	09/03/23 00:04
ADPL2	R1737141-12	ADPL2	09/03/23 00:28
ADPL1	R1737141-13	ADPL1	09/03/23 00:52
ADP ICV Quant Report	R1737141-32	ADPICV	09/03/23 01:15

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV106	**Analysis Date**	: 12/04/23 23:01
Tune Standard	: WG1859682-1	**Tune File ID**	: DEG1204na_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	45.3
68	Less than 2.0% of mass 69	0.7 (1.5)1
69		100
70	Less than 2.0% of mass 69	0.3 (.5)1
127	10.0 - 80.0% of Base Peak	58.2
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	24.1
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than 24% of mass 442	16.3
442	Base Peak, or >50% of mass 198	62.6
443	15.0 - 24.0% of mass 442	11.9 (18.9)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1859682-6TFACTOR-P	WG1859682-6	DEG1204NA	12/04/23 23:01
WG1859682-7TFACTOR-B	WG1859682-7	DEG1204NA	12/04/23 23:01
WG1859682-3CCAL	WG1859682-3	ABN1204NA	12/04/23 23:25
WG1859682-4CCAL	WG1859682-4	AP91204NA	12/04/23 23:49
WG1859682-5CCAL	WG1859682-5	ADP1204NA	12/05/23 00:13
MW-1S	L2370783-01	70783-01	12/05/23 01:49
MW-2S	L2370783-02	70783-02	12/05/23 02:13
MW-3S	L2370783-03	70783-03	12/05/23 02:37
WG1859049-4MS	WG1859049-4	859049-4	12/05/23 03:01
WG1859049-5MSD	WG1859049-5	859049-5	12/05/23 03:24
MW-4D	L2370783-04	70783-04	12/05/23 03:48
MW-5S	L2370783-05	70783-05	12/05/23 04:12
MW-6D	L2370783-06	70783-06	12/05/23 04:36
MW-7S	L2370783-07	70783-07	12/05/23 05:00
MW-8S	L2370783-08	70783-08	12/05/23 05:24
DUP	L2370783-09	70783-09	12/05/23 05:47
EB	L2370783-11	70783-11	12/05/23 06:11

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 10/25/23 23:57
Tune Standard	: R1757549-1	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	49.7
68	Less than 2.0% of mass 69	0.7 (1.8)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	50.9
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	20
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than 24% of mass 442	16.9
442	Base Peak, or >50% of mass 198	66.4
443	15.0 - 24.0% of mass 442	13.1 (19.7)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL10	R1757549-5	ABNL10	10/26/23 00:22
ABNL9	R1757549-14	ABNL9	10/26/23 00:48
ABNL7	R1757549-12	ABNL7	10/26/23 01:39
ABNL6	R1757549-10	ABNL6	10/26/23 02:04
ABNL5	R1757549-9	ABNL5	10/26/23 02:30
ABNL4	R1757549-8	ABNL4	10/26/23 02:56
ABNL3	R1757549-6	ABNL3	10/26/23 03:21
ABNL2	R1757549-7	ABNL2	10/26/23 03:47
ABNL1	R1757549-4	ABNL1	10/26/23 04:13
AP9L10	R1757549-25	AP9L10	10/26/23 04:39
AP9L9	R1757549-33	AP9L9	10/26/23 05:04
AP9L8	R1757549-32	AP9L8	10/26/23 05:30
AP9L7	R1757549-31	AP9L7	10/26/23 05:56
AP9L6	R1757549-30	AP9L6	10/26/23 06:21
AP9L5	R1757549-28	AP9L5	10/26/23 06:47
AP9L4	R1757549-29	AP9L4	10/26/23 07:13
AP9L3	R1757549-27	AP9L3	10/26/23 07:39
AP9L2	R1757549-26	AP9L2	10/26/23 08:04
AP9L1	R1757549-23	AP9L1	10/26/23 08:30
AP9 ICV Quant Report	R1757549-36	AP9ICV	10/26/23 09:21

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 10/26/23 09:47
Tune Standard	: R1757549-2	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	50.5
68	Less than 2.0% of mass 69	0.7 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	51
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	20.2
365	Greater than 1.0% of mass 198	2.1
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	66.4
443	15.0 - 24.0% of mass 442	13 (19.5)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL10	R1757549-16	ADPL10	10/26/23 10:13
ADPL9	R1757549-24	ADPL9	10/26/23 10:38
ADPL8	R1757549-21	ADPL8	10/26/23 11:04
ADPL7	R1757549-22	ADPL7	10/26/23 11:29
ADPL6	R1757549-19	ADPL6	10/26/23 11:55
ADPL5	R1757549-20	ADPL5	10/26/23 12:21
ADPL4	R1757549-17	ADPL4	10/26/23 12:46
ADPL3	R1757549-18	ADPL3	10/26/23 13:12
ADPL2	R1757549-15	ADPL2	10/26/23 13:38
ADPL1	R1757549-13	ADPL1	10/26/23 14:03
ADP ICV Quant Report	R1757549-35	ADPICV	10/26/23 14:29

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 10/27/23 13:20
Tune Standard	: R1757549-3	**Tune File ID**	: Tune3_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	47.8
68	Less than 2.0% of mass 69	0.6 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.1 (.2)1
127	10.0 - 80.0% of Base Peak	49.8
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	19.9
365	Greater than 1.0% of mass 198	2.4
441	Present, but less than 24% of mass 442	16.5
442	Base Peak, or >50% of mass 198	70.6
443	15.0 - 24.0% of mass 442	13.4 (19)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL8a	R1757549-11	ABNL8A	10/27/23 13:53
ABN ICV Quant Report	R1757549-34	ABNICVA	10/27/23 14:19

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 12/04/23 21:30
Tune Standard	: WG1859679-1	**Tune File ID**	: DEG1204n_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	37.3
68	Less than 2.0% of mass 69	0.6 (1.6)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	44.2
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	20.8
365	Greater than 1.0% of mass 198	2
441	Present, but less than 24% of mass 442	16.8
442	Base Peak, or >50% of mass 198	62.5
443	15.0 - 24.0% of mass 442	12.6 (20.2)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1859679-6TFACTOR-P	WG1859679-6	DEG1204N	12/04/23 21:30
WG1859679-7TFACTOR-B	WG1859679-7	DEG1204N	12/04/23 21:30
WG1859679-3CCAL	WG1859679-3	ABN1204N	12/04/23 21:57
WG1859679-4CCAL	WG1859679-4	AP91204N	12/04/23 22:24
WG1859679-5CCAL	WG1859679-5	ADP1204N	12/04/23 22:51
WG1859049-1BLANK	WG1859049-1	859049-1	12/04/23 23:19

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 12/06/23 06:38
Tune Standard	: WG1860349-1	**Tune File ID**	: DEG1206_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	36.9
68	Less than 2.0% of mass 69	0.6 (1.8)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	45.2
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	20.8
365	Greater than 1.0% of mass 198	2
441	Present, but less than 24% of mass 442	17
442	Base Peak, or >50% of mass 198	58.5
443	15.0 - 24.0% of mass 442	11.6 (19.9)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1860349-6TFACTOR-B	WG1860349-6	DEG1206	12/06/23 06:38
WG1860349-7TFACTOR-P	WG1860349-7	DEG1206	12/06/23 06:38
WG1860349-3CCAL	WG1860349-3	ABN1206	12/06/23 07:03
WG1860349-4CCAL	WG1860349-4	AP91206	12/06/23 07:29
WG1860349-5CCAL	WG1860349-5	ADP1206	12/06/23 07:55
WG1859049-2LCS	WG1859049-2	59049-2	12/06/23 17:30
WG1859049-3LCSD	WG1859049-3	59049-3	12/06/23 17:56

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 12/04/23 21:57:00
Sample No	: WG1859679-3	**Lab File ID**	: ABN1204N

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1859679-3	27149	6.46	99405	7.88	58166	9.63
Upper Limit	54298	6.96	198810	8.38	116332	10.13
Lower Limit	13575	5.96	49703	7.38	29083	9.13
Sample ID						
WG1859679-4 CCAL	28381	6.46	108091	7.88	61634	9.63
WG1859679-5 CCAL	26791	6.46	-	-	56085	9.63
WG1859049-1 BLANK	32925	6.46	124790	7.88	71457	9.63

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 12/04/23 21:57:00
Sample No	: WG1859679-3	**Lab File ID**	: ABN1204N

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1859679-3	124583	11.07	118560	13.69	119507	15.15
Upper Limit	249166	11.57	237120	14.19	239014	15.65
Lower Limit	62292	10.57	59280	13.19	59754	14.65
Sample ID						
WG1859679-4 CCAL	135758	11.07	-	-	-	-
WG1859679-5 CCAL	125576	11.07	-	-	-	-
WG1859049-1 BLANK	154184	11.07	124949	13.69	121284	15.15

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV106	**Analysis Date**	: 12/04/23 23:25:00
Sample No	: WG1859682-3	**Lab File ID**	: ABN1204NA

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1859682-3	35534	5.53	137007	7.09	78857	8.86
Upper Limit	71068	6.03	274014	7.59	157714	9.36
Lower Limit	17767	5.03	68504	6.59	39429	8.36
Sample ID						
WG1859682-4 CCAL	42220	5.53	169210	7.09	97131	8.86
WG1859682-5 CCAL	44154	5.53	-	-	100748	8.86
MW-1S	42932	5.53	162600	7.09	91684	8.86
MW-2S	42701	5.53	160085	7.09	90126	8.86
MW-3S	43171	5.53	163367	7.09	94256	8.86
MW-4D MS	37013	5.53	137502	7.09	78087	8.86
MW-4D MSD	37542	5.53	137343	7.09	79052	8.86
MW-4D	34311	5.53	134257	7.09	75173	8.86
MW-5S	33892	5.53	121812	7.09	67462	8.86
MW-6D	33689	5.53	130039	7.09	71574	8.86
MW-7S	37157	5.53	137738	7.09	77694	8.86
MW-8S	44723	5.53	172531	7.09	98940	8.86
DUP	30585	5.53	114344	7.09	63707	8.86
EB	31298	5.53	115179	7.09	61464	8.86

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV106	**Analysis Date**	: 12/04/23 23:25:00
Sample No	: WG1859682-3	**Lab File ID**	: ABN1204NA

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1859682-3	155365	10.27	136847	12.81	150903	14.20
Upper Limit	310730	10.77	273694	13.31	301806	14.70
Lower Limit	77683	9.77	68424	12.31	75452	13.70
Sample ID						
WG1859682-4 CCAL	199002	10.27	-	-	-	-
WG1859682-5 CCAL	209251	10.27	-	-	-	-
MW-1S	178787	10.27	162294	12.81	177502	14.20
MW-2S	171852	10.27	147960	12.81	157686	14.20
MW-3S	177486	10.27	148303	12.81	162105	14.20
MW-4D MS	151221	10.27	119000	12.81	131949	14.20
MW-4D MSD	150748	10.27	120351	12.81	124031	14.20
MW-4D	142090	10.27	116240	12.81	129685	14.20
MW-5S	129653	10.27	114682	12.81	129645	14.20
MW-6D	138906	10.27	119351	12.81	129592	14.20
MW-7S	146637	10.27	128488	12.81	141651	14.20
MW-8S	199425	10.27	170379	12.81	182556	14.20
DUP	123469	10.27	104886	12.81	120175	14.20
EB	118006	10.27	100006	12.81	113316	14.20

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 12/06/23 07:03:00
Sample No	: WG1860349-3	**Lab File ID**	: ABN1206

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1860349-3	27238	6.43	101480	7.85	59826	9.61
Upper Limit	54476	6.93	202960	8.35	119652	10.11
Lower Limit	13619	5.93	50740	7.35	29913	9.11
Sample ID						
WG1860349-4 CCAL	28172	6.43	105283	7.85	58558	9.61
WG1860349-5 CCAL	32258	6.43	-	-	65135	9.61
WG1859049-2 LCS	26866	6.43	100956	7.86	59344	9.61
WG1859049-3 LCSD	29934	6.43	112531	7.86	65274	9.61

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV107	**Analysis Date**	: 12/06/23 07:03:00
Sample No	: WG1860349-3	**Lab File ID**	: ABN1206

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1860349-3	118224	11.05	99775	13.67	100806	15.13
Upper Limit	236448	11.55	199550	14.17	201612	15.63
Lower Limit	59112	10.55	49888	13.17	50403	14.63
Sample ID						
WG1860349-4 CCAL	117355	11.05	-	-	-	-
WG1860349-5 CCAL	127858	11.05	-	-	-	-
WG1859049-2 LCS	120371	11.05	92523	13.67	95807	15.13
WG1859049-3 LCSD	128929	11.05	100109	13.67	101566	15.13

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	1.06	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.581	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.69	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.884	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.538	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.636	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.642	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.463	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	0.854	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.382	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.368	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.81	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.653	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.795	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.632	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	1.75	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	1.49	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.6	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	0.606	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.44	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.657	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.669	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.656	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.65	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.771	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.51	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.18	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.58	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.39	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	4.3	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	4.44	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.767	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.447	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.814	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.816	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.828	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.59	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.79	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.77	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	1.05	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.992	ug/l	40-140	30	40-140	30	30			

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

ABN Extractables - EPA 8270E (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	2	0.452	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.943	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.704	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.635	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.482	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.647	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.595	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	0.519	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	0.574	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	0.581	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.823	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.677	ug/l	40-140	30	40-140	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.524	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	0.494	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.406	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.405	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	0.527	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	1.1	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	0.463	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.14	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	3.55	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	5.42	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	1.95	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	1.3	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	1.1	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	0.55	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	0.381	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.698	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.759	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	0.905	ug/l	10-66	30	10-66	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50			
Benzidine	92-87-5	551.1	181.028	ug/kg	10-66	50	10-66	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50			
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50			
Azobenzene	122-66-7	167	16.032	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50			

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

ABN Extractables - EPA 8270E (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	21.71	ug/kg	37-127	50	37-127	50	50			
Aniline	62-53-3	200.4	78.824	ug/kg	40-140	50	40-140	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
1-Methylnaphthalene	90-12-0	167	19.372	ug/kg	26-130	50	26-130	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
n-Nitrosodimethylamine	62-75-9	334	32.064	ug/kg	22-100	50	22-100	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
P-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130.	50	30-130.	50	50			
3-Methylphenol/4-Methylphenol	106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
Pyridine	110-86-1	180.36	63.46	ug/kg	10-93	50	10-93	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 01:49
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-01	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 01:49
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-01	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 01:49
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-01	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 02:13
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-02	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 02:13
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-02	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 02:13
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-02	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 02:37
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-03	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 02:37
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-03	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 02:37
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-03	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 03:48
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-04	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-04	Date Collected	: 11/29/23 14:00
Client ID	: MW-4D	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 03:48
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 70783-04	Analyst	: SZ
Sample Amount	: 275 ml	Instrument ID	: SV106
Extraction Method	: EPA 3510C	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 03:48
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-04	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 04:12
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-05	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-05	Date Collected	: 11/29/23 15:30
Client ID	: MW-5S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 04:12
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 70783-05	Analyst	: SZ
Sample Amount	: 275 ml	Instrument ID	: SV106
Extraction Method	: EPA 3510C	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 04:12
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-05	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 04:36
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-06	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 04:36
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-06	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 04:36
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-06	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 05:00
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-07	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 05:00
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-07	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 05:00
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-07	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 05:24
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-08	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-08	Date Collected	: 11/29/23 16:40
Client ID	: MW-8S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 05:24
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 70783-08	Analyst	: SZ
Sample Amount	: 275 ml	Instrument ID	: SV106
Extraction Method	: EPA 3510C	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 05:24
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-08	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-09	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 05:47
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-09	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-09	Date Collected	: 11/29/23 00:00
Client ID	: DUP	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 05:47
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 70783-09	Analyst	: SZ
Sample Amount	: 275 ml	Instrument ID	: SV106
Extraction Method	: EPA 3510C	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-09	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 05:47
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-09	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-11	Date Collected	: 11/29/23 08:45
Client ID	: EB	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 06:11
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 70783-11	Analyst	: SZ
Sample Amount	: 275 ml	Instrument ID	: SV106
Extraction Method	: EPA 3510C	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-11	Date Collected	: 11/29/23 08:45
Client ID	: EB	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 06:11
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 70783-11	Analyst	: SZ
Sample Amount	: 275 ml	Instrument ID	: SV106
Extraction Method	: EPA 3510C	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-11	**Date Collected**	: 11/29/23 08:45
Client ID	: EB	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 06:11
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 70783-11	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV106
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: WG1859049-1	Date Collected	: NA
Client ID	: WG1859049-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/04/23 23:19
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8270E	Dilution Factor	: 1
Lab File ID	: 859049-1	Analyst	: SZ
Sample Amount	: 275 ml	Instrument ID	: SV107
Extraction Method	: EPA 3510C	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.50	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.6	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	1.2	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.93	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.49	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.38	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.53	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.50	U
77-47-4	Hexachlorocyclopentadiene	ND	20	0.69	U
78-59-1	Isophorone	ND	5.0	1.2	U
98-95-3	Nitrobenzene	ND	2.0	0.77	U
86-30-6	NDPA/DPA	ND	2.0	0.42	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.64	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.5	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.2	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.39	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.38	U
131-11-3	Dimethyl phthalate	ND	5.0	1.8	U
92-52-4	Biphenyl	ND	2.0	0.46	U
106-47-8	4-Chloroaniline	ND	5.0	1.1	U
88-74-4	2-Nitroaniline	ND	5.0	0.50	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859049-1	**Date Collected**	: NA
Client ID	: WG1859049-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/04/23 23:19
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 859049-1	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
99-09-2	3-Nitroaniline	ND	5.0	0.81	U
100-01-6	4-Nitroaniline	ND	5.0	0.80	U
132-64-9	Dibenzofuran	ND	2.0	0.50	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.44	U
98-86-2	Acetophenone	ND	5.0	0.53	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.61	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.35	U
95-57-8	2-Chlorophenol	ND	2.0	0.48	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.41	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.8	U
88-75-5	2-Nitrophenol	ND	10	0.85	U
100-02-7	4-Nitrophenol	ND	10	0.67	U
51-28-5	2,4-Dinitrophenol	ND	20	6.6	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	1.8	U
108-95-2	Phenol	ND	5.0	0.57	U
95-48-7	2-Methylphenol	ND	5.0	0.49	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	0.48	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.77	U
86-74-8	Carbazole	ND	2.0	0.49	U
1912-24-9	Atrazine	ND	10	0.76	U
100-52-7	Benzaldehyde	ND	5.0	0.53	U
105-60-2	Caprolactam	ND	10	3.3	U

Results Summary
Form 1
Semivolatile Organics by GC/MS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859049-1	**Date Collected**	: NA
Client ID	: WG1859049-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/04/23 23:19
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E	**Dilution Factor**	: 1
Lab File ID	: 859049-1	**Analyst**	: SZ
Sample Amount	: 275 ml	**Instrument ID**	: SV107
Extraction Method	: EPA 3510C	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.84	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-01.D
Acq On : 5 Dec 2023 1:49 am
Operator : SV106:sz
Sample : L2370783-01,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 06 16:37:57 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 02:09:09 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	5.528	152	42932	4.000	ug/ml		0.00
Standard Area 1 = 35534			Recovery = 120.82%				
27) IS2_1,4-Dichlorobenzen...	5.528	152	42932	4.000	ug/ml		0.00
Standard Area 3 = 42220			Recovery = 101.69%				
34) IS1_Naphthalene-d8	7.086	136	162600	4.000	ug/ml	#	0.00
Standard Area 1 = 137007			Recovery = 118.68%				
54) IS2_Naphthalene-d8	7.086	136	162600	4.000	ug/ml	#	0.00
Standard Area 3 = 169210			Recovery = 96.09%				
62) IS1_Acenaphthene-d10	8.857	164	91684	4.000	ug/ml		0.00
Standard Area 1 = 78857			Recovery = 116.27%				
82) IS2_Acenaphthene-d10	8.857	164	91684	4.000	ug/ml		0.00
Standard Area 3 = 97131			Recovery = 94.39%				
85) IS3_Acenaphthene-d10	8.857	164	91684	4.000	ug/ml		0.00
Standard Area 2 = 100748			Recovery = 91.00%				
87) IS1_Phenanthrene-d10	10.269	188	178787	4.000	ug/ml	#	0.00
Standard Area 1 = 155365			Recovery = 115.08%				
99) IS3_Phenanthrene-d10	10.269	188	178787	4.000	ug/ml	#	0.00
Standard Area 2 = 209251			Recovery = 85.44%				
103) IS1_Chrysene-d12	12.810	240	162294	4.000	ug/ml		0.00
Standard Area 1 = 136847			Recovery = 118.60%				
112) IS1_Perylene-d12	14.198	264	177502	4.000	ug/ml		0.00
Standard Area 1 = 150903			Recovery = 117.63%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.781	112	38706	3.233	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 64.66%				
7) Phenol-d6	5.163	99	42591	2.761	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 55.22%				
19) Nitrobenzene-d5	6.287	82	27364	1.957	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 78.28%				
45) 2-Fluorobiphenyl	8.239	172	52803	1.701	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 68.04%				
78) 2,4,6-Tribromophenol	9.622	330	15428	3.667	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 73.34%				
95) 4-Terphenyl-d14	11.845	244	65947	1.682	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 67.28%				

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-01.D
Acq On : 5 Dec 2023 1:49 am
Operator : SV106:sz
Sample : L2370783-01,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 06 16:37:57 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 02:09:09 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.	d	
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.	d	
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.	d	
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.	d	
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-01.D
Acq On : 5 Dec 2023 1:49 am
Operator : SV106:sz
Sample : L2370783-01,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 06 16:37:57 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 02:09:09 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	0.000		0	N.D.	d	
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	0.000		0	N.D.	d	
96)	Butyl benzyl phthalate	0.000		0	N.D.	d	
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
107)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

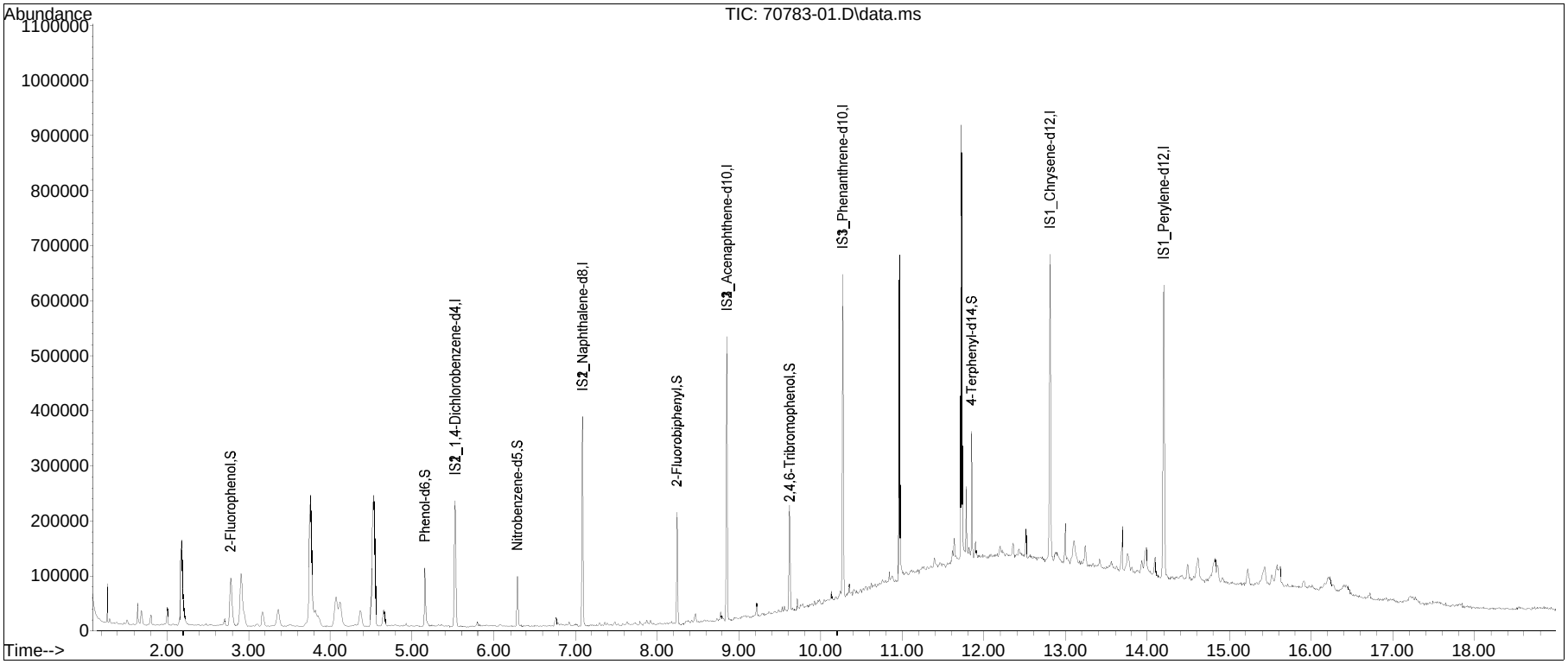
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-01.D
Acq On : 5 Dec 2023 1:49 am
Operator : SV106:sz
Sample : L2370783-01,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 06 16:37:57 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 02:09:09 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP91204na.D•



Manual Integration Report

Data Path	: I:\8270\SV106\231204nalvi\	QMethod	: FS230902SV106.m
Data File	: 70783-01.D	Operator	: SV106:sz
Date Inj'd	: 12/5/2023 1:49 am	Instrument	: SV 106
Sample	: L2370783-01,32,,ASK	Quant Date	: 12/5/2023 2:09 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-02.D
Acq On : 5 Dec 2023 2:13 am
Operator : SV106:sz
Sample : L2370783-02,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 06 16:38:30 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 02:33:24 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	5.528	152	42701	4.000	ug/ml		0.00
Standard Area 1 = 35534			Recovery = 120.17%				
27) IS2_1,4-Dichlorobenzen...	5.528	152	42701	4.000	ug/ml		0.00
Standard Area 3 = 42220			Recovery = 101.14%				
34) IS1_Naphthalene-d8	7.086	136	160085	4.000	ug/ml	#	0.00
Standard Area 1 = 137007			Recovery = 116.84%				
54) IS2_Naphthalene-d8	7.086	136	160085	4.000	ug/ml	#	0.00
Standard Area 3 = 169210			Recovery = 94.61%				
62) IS1_Acenaphthene-d10	8.857	164	90126	4.000	ug/ml		0.00
Standard Area 1 = 78857			Recovery = 114.29%				
82) IS2_Acenaphthene-d10	8.857	164	90126	4.000	ug/ml		0.00
Standard Area 3 = 97131			Recovery = 92.79%				
85) IS3_Acenaphthene-d10	8.857	164	90126	4.000	ug/ml		0.00
Standard Area 2 = 100748			Recovery = 89.46%				
87) IS1_Phenanthrene-d10	10.269	188	171852	4.000	ug/ml	#	0.00
Standard Area 1 = 155365			Recovery = 110.61%				
99) IS3_Phenanthrene-d10	10.269	188	171852	4.000	ug/ml	#	0.00
Standard Area 2 = 209251			Recovery = 82.13%				
103) IS1_Chrysene-d12	12.810	240	147960	4.000	ug/ml		0.00
Standard Area 1 = 136847			Recovery = 108.12%				
112) IS1_Perylene-d12	14.198	264	157686	4.000	ug/ml		0.00
Standard Area 1 = 150903			Recovery = 104.49%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.787	112	37544	3.153	ug/ml		0.01
Spiked Amount 5.000	Range 15 - 110		Recovery = 63.06%				
7) Phenol-d6	5.163	99	46777	3.049	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 60.98%				
19) Nitrobenzene-d5	6.286	82	33267	2.392	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 95.68%				
45) 2-Fluorobiphenyl	8.239	172	63280	2.071	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 82.84%				
78) 2,4,6-Tribromophenol	9.622	330	11880	2.873	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 57.46%				
95) 4-Terphenyl-d14	11.845	244	74794	1.984	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 79.36%				

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-02.D
Acq On : 5 Dec 2023 2:13 am
Operator : SV106:sz
Sample : L2370783-02,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 06 16:38:30 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 02:33:24 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-02.D
Acq On : 5 Dec 2023 2:13 am
Operator : SV106:sz
Sample : L2370783-02,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 06 16:38:30 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 02:33:24 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	0.000		0	N.D.	d	
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	0.000		0	N.D.	d	
96)	Butyl benzyl phthalate	0.000		0	N.D.		
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
107)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

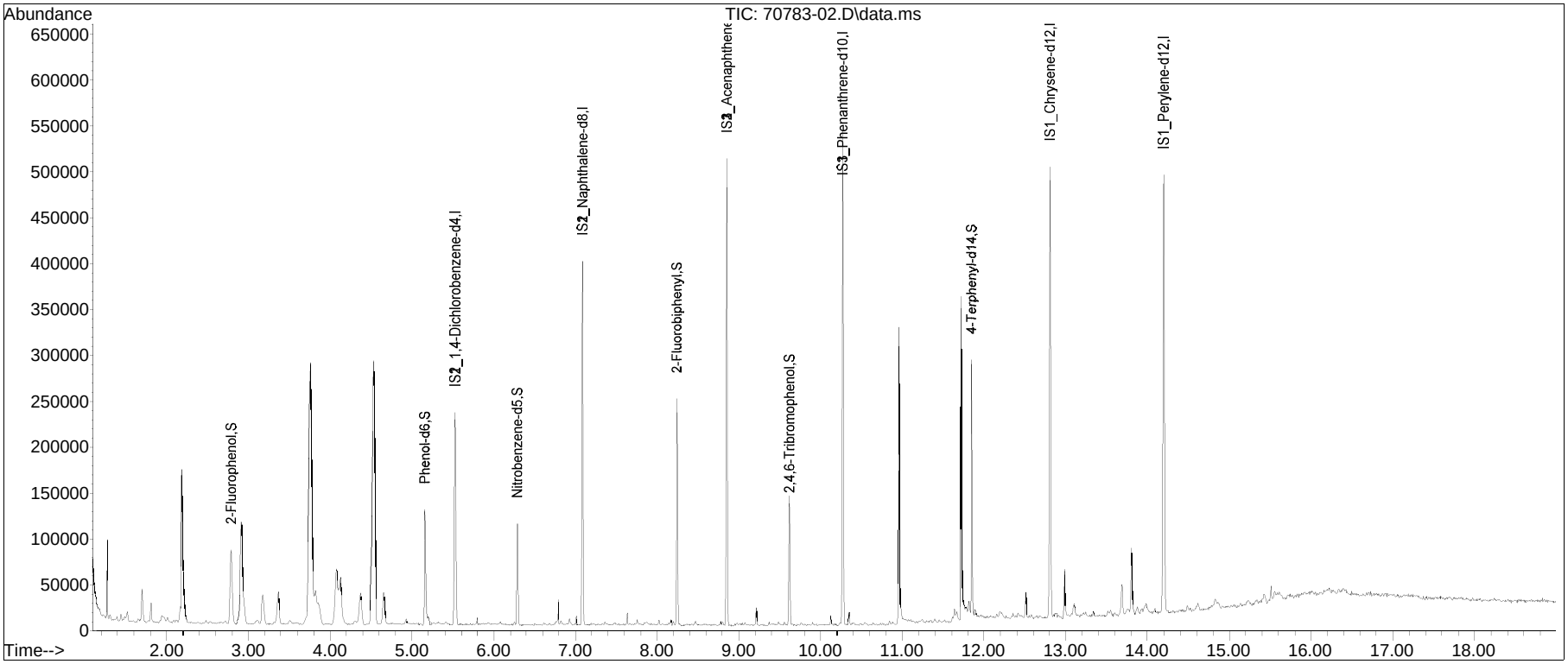
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-02.D
Acq On : 5 Dec 2023 2:13 am
Operator : SV106:sz
Sample : L2370783-02,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 06 16:38:30 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 02:33:24 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP91204na.D•



Manual Integration Report

Data Path	: I:\8270\SV106\231204nalvi\	QMethod	: FS230902SV106.m
Data File	: 70783-02.D	Operator	: SV106:sz
Date Inj'd	: 12/5/2023 2:13 am	Instrument	: SV 106
Sample	: L2370783-02,32,,ASK	Quant Date	: 12/5/2023 2:33 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-03.D
Acq On : 5 Dec 2023 2:37 am
Operator : SV106:sz
Sample : L2370783-03,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 16:39:02 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 02:57:07 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	5.528	152	43171	4.000	ug/ml		0.00
Standard Area 1 = 35534			Recovery = 121.49%				
27) IS2_1,4-Dichlorobenzen...	5.528	152	43171	4.000	ug/ml		0.00
Standard Area 3 = 42220			Recovery = 102.25%				
34) IS1_Naphthalene-d8	7.086	136	163367	4.000	ug/ml	#	0.00
Standard Area 1 = 137007			Recovery = 119.24%				
54) IS2_Naphthalene-d8	7.086	136	163367	4.000	ug/ml	#	0.00
Standard Area 3 = 169210			Recovery = 96.55%				
62) IS1_Acenaphthene-d10	8.857	164	94256	4.000	ug/ml		0.00
Standard Area 1 = 78857			Recovery = 119.53%				
82) IS2_Acenaphthene-d10	8.857	164	94256	4.000	ug/ml		0.00
Standard Area 3 = 97131			Recovery = 97.04%				
85) IS3_Acenaphthene-d10	8.857	164	94256	4.000	ug/ml		0.00
Standard Area 2 = 100748			Recovery = 93.56%				
87) IS1_Phenanthrene-d10	10.269	188	177486	4.000	ug/ml	#	0.00
Standard Area 1 = 155365			Recovery = 114.24%				
99) IS3_Phenanthrene-d10	10.269	188	177486	4.000	ug/ml	#	0.00
Standard Area 2 = 209251			Recovery = 84.82%				
103) IS1_Chrysene-d12	12.810	240	148303	4.000	ug/ml	#	0.00
Standard Area 1 = 136847			Recovery = 108.37%				
112) IS1_Perylene-d12	14.198	264	162105	4.000	ug/ml		0.00
Standard Area 1 = 150903			Recovery = 107.42%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.787	112	27694	2.300	ug/ml		0.01
Spiked Amount 5.000	Range 15 - 110		Recovery = 46.00%				
7) Phenol-d6	5.163	99	33029	2.129	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 42.58%				
19) Nitrobenzene-d5	6.287	82	24295	1.728	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 69.12%				
45) 2-Fluorobiphenyl	8.239	172	46392	1.488	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 59.52%				
78) 2,4,6-Tribromophenol	9.622	330	8614	1.992	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 39.84%				
95) 4-Terphenyl-d14	11.845	244	56057	1.440	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 57.60%				

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-03.D
Acq On : 5 Dec 2023 2:37 am
Operator : SV106:sz
Sample : L2370783-03,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 16:39:02 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 02:57:07 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-03.D
Acq On : 5 Dec 2023 2:37 am
Operator : SV106:sz
Sample : L2370783-03,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 16:39:02 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 02:57:07 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	0.000		0	N.D.		
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	0.000		0	N.D.	d	
96)	Butyl benzyl phthalate	0.000		0	N.D.		
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
107)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

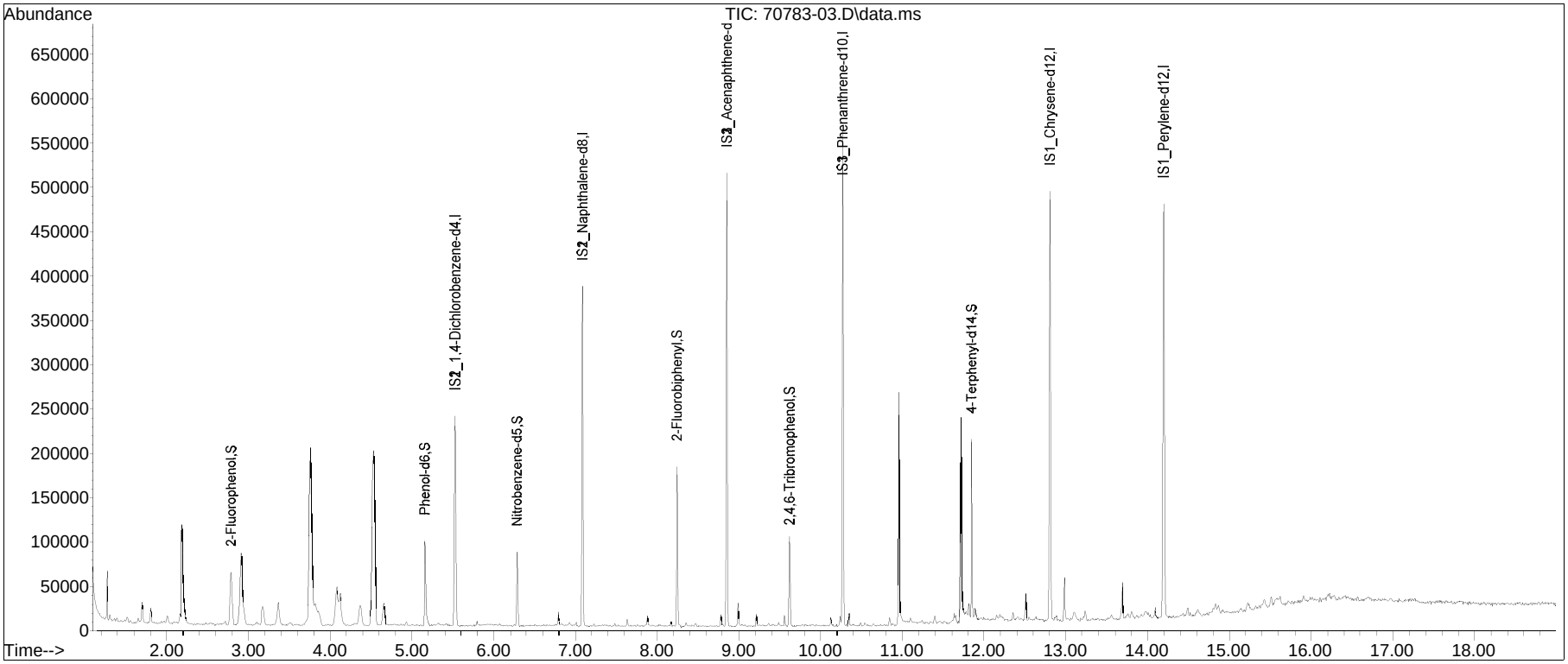
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-03.D
Acq On : 5 Dec 2023 2:37 am
Operator : SV106:sz
Sample : L2370783-03,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 16:39:02 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 02:57:07 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP91204na.D•



Manual Integration Report

Data Path	: I:\8270\SV106\231204nalvi\	QMethod	: FS230902SV106.m
Data File	: 70783-03.D	Operator	: SV106:sz
Date Inj'd	: 12/5/2023 2:37 am	Instrument	: SV 106
Sample	: L2370783-03,32,,ASK	Quant Date	: 12/5/2023 2:57 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-04.D
Acq On : 5 Dec 2023 3:48 am
Operator : SV106:sz
Sample : L2370783-04,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 06 16:39:26 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 04:10:08 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.528	152	34311	4.000	ug/ml	0.00
Standard Area 1 = 35534			Recovery = 96.56%			
27) IS2_1,4-Dichlorobenzen...	5.528	152	34311	4.000	ug/ml	0.00
Standard Area 3 = 42220			Recovery = 81.27%			
34) IS1_Naphthalene-d8	7.087	136	134257	4.000	ug/ml	# 0.00
Standard Area 1 = 137007			Recovery = 97.99%			
54) IS2_Naphthalene-d8	7.087	136	134257	4.000	ug/ml	# 0.00
Standard Area 3 = 169210			Recovery = 79.34%			
62) IS1_Acenaphthene-d10	8.857	164	75173	4.000	ug/ml	0.00
Standard Area 1 = 78857			Recovery = 95.33%			
82) IS2_Acenaphthene-d10	8.857	164	75173	4.000	ug/ml	0.00
Standard Area 3 = 97131			Recovery = 77.39%			
85) IS3_Acenaphthene-d10	8.857	164	75173	4.000	ug/ml	0.00
Standard Area 2 = 100748			Recovery = 74.61%			
87) IS1_Phenanthrene-d10	10.269	188	142090	4.000	ug/ml	# 0.00
Standard Area 1 = 155365			Recovery = 91.46%			
99) IS3_Phenanthrene-d10	10.269	188	142090	4.000	ug/ml	# 0.00
Standard Area 2 = 209251			Recovery = 67.90%			
103) IS1_Chrysene-d12	12.810	240	116240	4.000	ug/ml	# 0.00
Standard Area 1 = 136847			Recovery = 84.94%			
112) IS1_Perylene-d12	14.198	264	129685	4.000	ug/ml	0.00
Standard Area 1 = 150903			Recovery = 85.94%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.781	112	26492	2.769	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 55.38%			
7) Phenol-d6	5.163	99	29461	2.390	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 47.80%			
19) Nitrobenzene-d5	6.287	82	19362	1.732	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 69.28%			
45) 2-Fluorobiphenyl	8.239	172	38341	1.496	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 59.84%			
78) 2,4,6-Tribromophenol	9.622	330	7396	2.144	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 42.88%			
95) 4-Terphenyl-d14	11.845	244	46430	1.490	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 59.60%			

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-04.D
Acq On : 5 Dec 2023 3:48 am
Operator : SV106:sz
Sample : L2370783-04,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 06 16:39:26 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 04:10:08 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-04.D
Acq On : 5 Dec 2023 3:48 am
Operator : SV106:sz
Sample : L2370783-04,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 06 16:39:26 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 04:10:08 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) NDPA/DPA	0.000		0	N.D.		
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
96) Butyl benzyl phthalate	0.000		0	N.D.		
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	

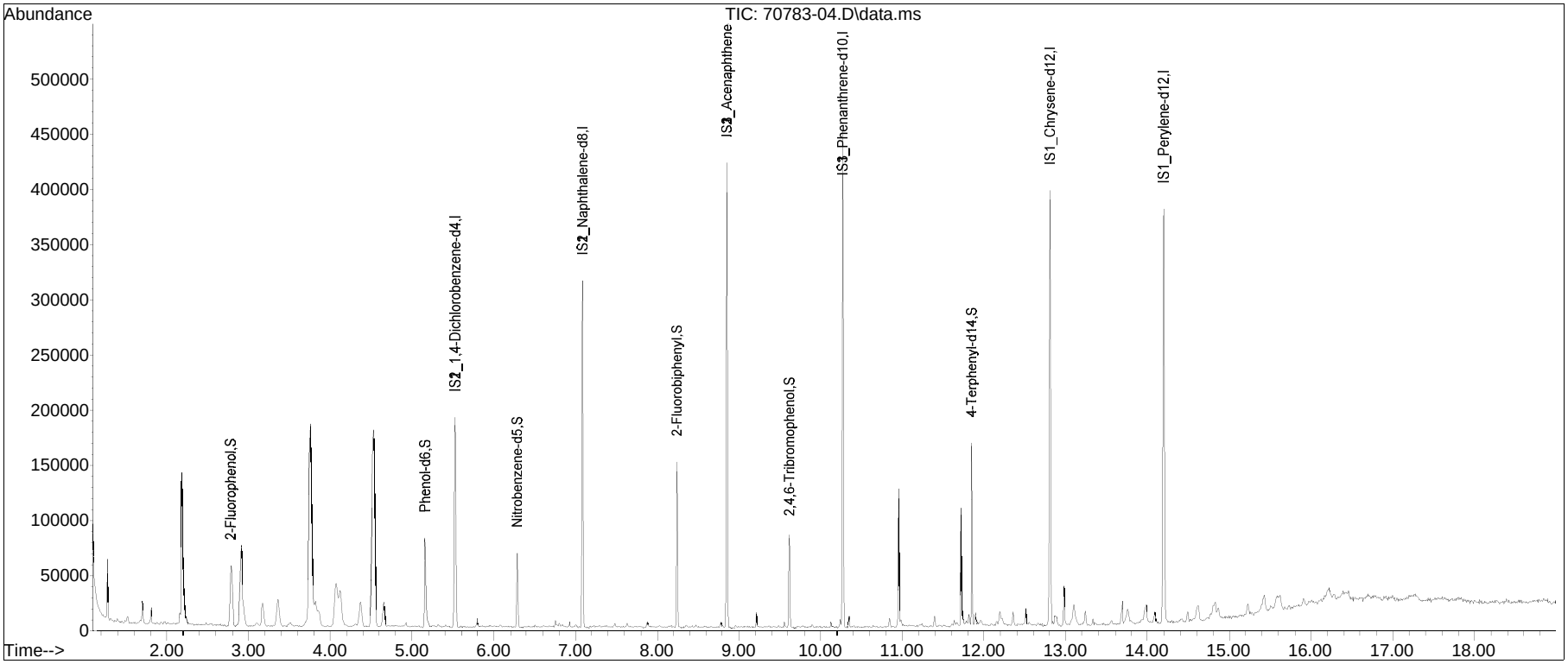
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-04.D
Acq On : 5 Dec 2023 3:48 am
Operator : SV106:sz
Sample : L2370783-04,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 06 16:39:26 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 04:10:08 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP91204na.D•



Manual Integration Report

Data Path	: I:\8270\SV106\231204nalvi\	QMethod	: FS230902SV106.m
Data File	: 70783-04.D	Operator	: SV106:sz
Date Inj'd	: 12/5/2023 3:48 am	Instrument	: SV 106
Sample	: L2370783-04,32,,ASK	Quant Date	: 12/5/2023 4:10 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-05.D
Acq On : 5 Dec 2023 4:12 am
Operator : SV106:sz
Sample : L2370783-05,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 06 16:39:47 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 04:32:35 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	5.528	152	33892	4.000	ug/ml		0.00
Standard Area 1 = 35534			Recovery = 95.38%				
27) IS2_1,4-Dichlorobenzen...	5.528	152	33892	4.000	ug/ml		0.00
Standard Area 3 = 42220			Recovery = 80.27%				
34) IS1_Naphthalene-d8	7.087	136	121812	4.000	ug/ml	#	0.00
Standard Area 1 = 137007			Recovery = 88.91%				
54) IS2_Naphthalene-d8	7.087	136	121812	4.000	ug/ml	#	0.00
Standard Area 3 = 169210			Recovery = 71.99%				
62) IS1_Acenaphthene-d10	8.857	164	67462	4.000	ug/ml		0.00
Standard Area 1 = 78857			Recovery = 85.55%				
82) IS2_Acenaphthene-d10	8.857	164	67462	4.000	ug/ml		0.00
Standard Area 3 = 97131			Recovery = 69.45%				
85) IS3_Acenaphthene-d10	8.857	164	67462	4.000	ug/ml		0.00
Standard Area 2 = 100748			Recovery = 66.96%				
87) IS1_Phenanthrene-d10	10.269	188	129653	4.000	ug/ml	#	0.00
Standard Area 1 = 155365			Recovery = 83.45%				
99) IS3_Phenanthrene-d10	10.269	188	129653	4.000	ug/ml	#	0.00
Standard Area 2 = 209251			Recovery = 61.96%				
103) IS1_Chrysene-d12	12.810	240	114682	4.000	ug/ml		0.00
Standard Area 1 = 136847			Recovery = 83.80%				
112) IS1_Perylene-d12	14.198	264	129645	4.000	ug/ml		0.00
Standard Area 1 = 150903			Recovery = 85.91%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.781	112	22693	2.401	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 48.02%				
7) Phenol-d6	5.163	99	24152	1.983	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 39.66%				
19) Nitrobenzene-d5	6.287	82	17068	1.546	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 61.84%				
45) 2-Fluorobiphenyl	8.239	172	32532	1.399	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 55.96%				
78) 2,4,6-Tribromophenol	9.622	330	7565	2.444	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 48.88%				
95) 4-Terphenyl-d14	11.845	244	42238	1.485	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 59.40%				

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-05.D
Acq On : 5 Dec 2023 4:12 am
Operator : SV106:sz
Sample : L2370783-05,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 06 16:39:47 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 04:32:35 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-05.D
Acq On : 5 Dec 2023 4:12 am
Operator : SV106:sz
Sample : L2370783-05,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 06 16:39:47 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 04:32:35 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	0.000		0	N.D.		
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	0.000		0	N.D.		
96)	Butyl benzyl phthalate	0.000		0	N.D.		
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
107)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

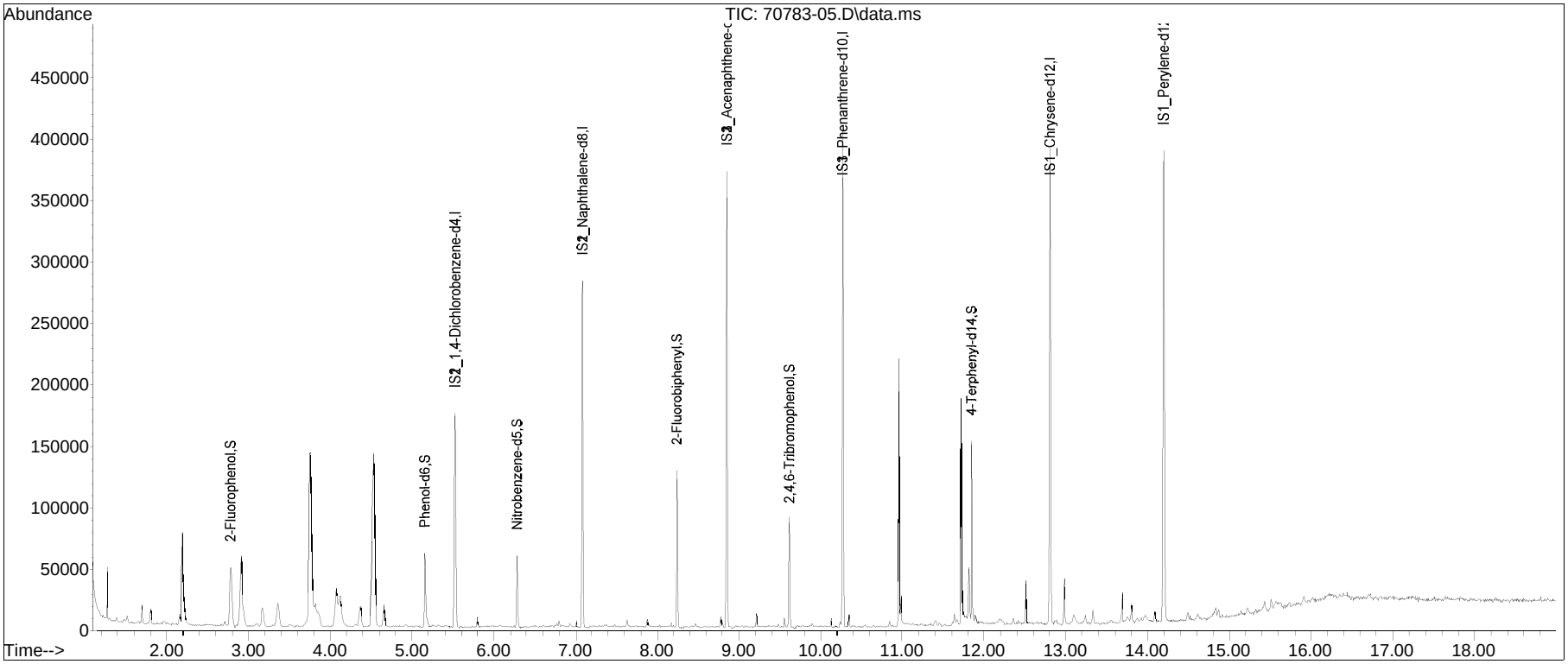
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-05.D
Acq On : 5 Dec 2023 4:12 am
Operator : SV106:sz
Sample : L2370783-05,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 06 16:39:47 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 04:32:35 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP91204na.D•



Manual Integration Report

Data Path	: I:\8270\SV106\231204nalvi\	QMethod	: FS230902SV106.m
Data File	: 70783-05.D	Operator	: SV106:sz
Date Inj'd	: 12/5/2023 4:12 am	Instrument	: SV 106
Sample	: L2370783-05,32,,ASK	Quant Date	: 12/5/2023 4:32 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-06.D
Acq On : 5 Dec 2023 4:36 am
Operator : SV106:sz
Sample : L2370783-06,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 06 16:40:12 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 04:56:26 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.528	152	33689	4.000	ug/ml	0.00
Standard Area 1 = 35534			Recovery = 94.81%			
27) IS2_1,4-Dichlorobenzen...	5.528	152	33689	4.000	ug/ml	0.00
Standard Area 3 = 42220			Recovery = 79.79%			
34) IS1_Naphthalene-d8	7.087	136	130039	4.000	ug/ml	# 0.00
Standard Area 1 = 137007			Recovery = 94.91%			
54) IS2_Naphthalene-d8	7.087	136	130039	4.000	ug/ml	# 0.00
Standard Area 3 = 169210			Recovery = 76.85%			
62) IS1_Acenaphthene-d10	8.857	164	71574	4.000	ug/ml	0.00
Standard Area 1 = 78857			Recovery = 90.76%			
82) IS2_Acenaphthene-d10	8.857	164	71574	4.000	ug/ml	0.00
Standard Area 3 = 97131			Recovery = 73.69%			
85) IS3_Acenaphthene-d10	8.857	164	71574	4.000	ug/ml	0.00
Standard Area 2 = 100748			Recovery = 71.04%			
87) IS1_Phenanthrene-d10	10.269	188	138906	4.000	ug/ml	# 0.00
Standard Area 1 = 155365			Recovery = 89.41%			
99) IS3_Phenanthrene-d10	10.269	188	138906	4.000	ug/ml	# 0.00
Standard Area 2 = 209251			Recovery = 66.38%			
103) IS1_Chrysene-d12	12.810	240	119351	4.000	ug/ml	# 0.00
Standard Area 1 = 136847			Recovery = 87.21%			
112) IS1_Perylene-d12	14.198	264	129592	4.000	ug/ml	0.00
Standard Area 1 = 150903			Recovery = 85.88%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.781	112	25088	2.670	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 53.40%			
7) Phenol-d6	5.163	99	25138	2.077	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 41.54%			
19) Nitrobenzene-d5	6.287	82	17651	1.608	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 64.32%			
45) 2-Fluorobiphenyl	8.239	172	34464	1.388	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 55.52%			
78) 2,4,6-Tribromophenol	9.622	330	8996	2.739	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 54.78%			
95) 4-Terphenyl-d14	11.845	244	43728	1.435	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 57.40%			

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-06.D
Acq On : 5 Dec 2023 4:36 am
Operator : SV106:sz
Sample : L2370783-06,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 06 16:40:12 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 04:56:26 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-06.D
Acq On : 5 Dec 2023 4:36 am
Operator : SV106:sz
Sample : L2370783-06,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 06 16:40:12 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 04:56:26 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	0.000		0	N.D.		
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	0.000		0	N.D.	d	
96)	Butyl benzyl phthalate	0.000		0	N.D.		
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
107)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

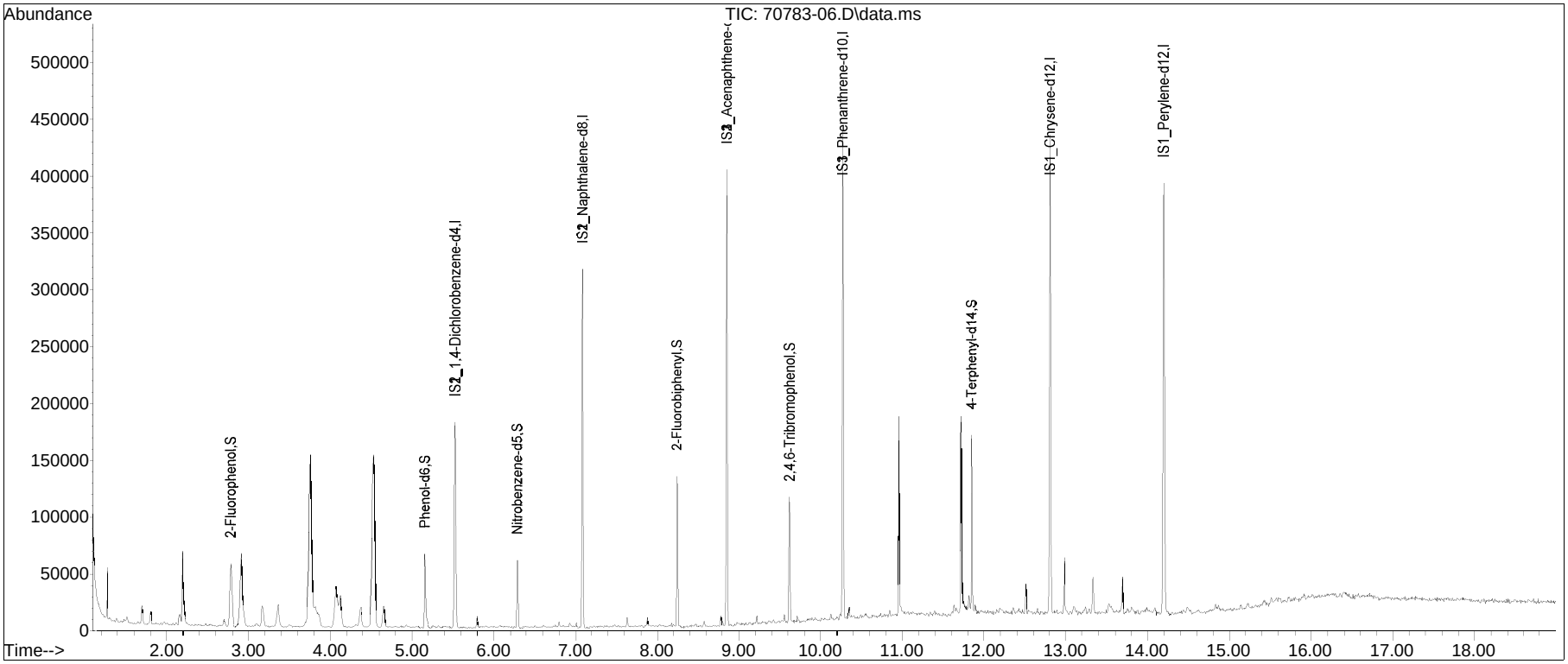
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-06.D
Acq On : 5 Dec 2023 4:36 am
Operator : SV106:sz
Sample : L2370783-06,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 06 16:40:12 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 04:56:26 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP91204na.D•



Manual Integration Report

Data Path	: I:\8270\SV106\231204nalvi\	QMethod	: FS230902SV106.m
Data File	: 70783-06.D	Operator	: SV106:sz
Date Inj'd	: 12/5/2023 4:36 am	Instrument	: SV 106
Sample	: L2370783-06,32,,ASK	Quant Date	: 12/5/2023 4:56 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-07.D
Acq On : 5 Dec 2023 5:00 am
Operator : SV106:sz
Sample : L2370783-07,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 06 16:40:35 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 05:20:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	5.528	152	37157	4.000	ug/ml		0.00
Standard Area 1 = 35534			Recovery = 104.57%				
27) IS2_1,4-Dichlorobenzen...	5.528	152	37157	4.000	ug/ml		0.00
Standard Area 3 = 42220			Recovery = 88.01%				
34) IS1_Naphthalene-d8	7.087	136	137738	4.000	ug/ml	#	0.00
Standard Area 1 = 137007			Recovery = 100.53%				
54) IS2_Naphthalene-d8	7.087	136	137738	4.000	ug/ml	#	0.00
Standard Area 3 = 169210			Recovery = 81.40%				
62) IS1_Acenaphthene-d10	8.857	164	77694	4.000	ug/ml		0.00
Standard Area 1 = 78857			Recovery = 98.53%				
82) IS2_Acenaphthene-d10	8.857	164	77694	4.000	ug/ml		0.00
Standard Area 3 = 97131			Recovery = 79.99%				
85) IS3_Acenaphthene-d10	8.857	164	77694	4.000	ug/ml		0.00
Standard Area 2 = 100748			Recovery = 77.12%				
87) IS1_Phenanthrene-d10	10.269	188	146637	4.000	ug/ml	#	0.00
Standard Area 1 = 155365			Recovery = 94.38%				
99) IS3_Phenanthrene-d10	10.269	188	146637	4.000	ug/ml	#	0.00
Standard Area 2 = 209251			Recovery = 70.08%				
103) IS1_Chrysene-d12	12.810	240	128488	4.000	ug/ml		0.00
Standard Area 1 = 136847			Recovery = 93.89%				
112) IS1_Perylene-d12	14.198	264	141651	4.000	ug/ml		0.00
Standard Area 1 = 150903			Recovery = 93.87%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.781	112	23952	2.311	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 46.22%				
7) Phenol-d6	5.163	99	24748	1.854	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 37.08%				
19) Nitrobenzene-d5	6.287	82	18081	1.494	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 59.76%				
45) 2-Fluorobiphenyl	8.239	172	32636	1.241	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 49.64%				
78) 2,4,6-Tribromophenol	9.622	330	8882	2.492	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 49.84%				
95) 4-Terphenyl-d14	11.851	244	40911	1.272	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 50.88%				

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-07.D
Acq On : 5 Dec 2023 5:00 am
Operator : SV106:sz
Sample : L2370783-07,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 06 16:40:35 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 05:20:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-07.D
Acq On : 5 Dec 2023 5:00 am
Operator : SV106:sz
Sample : L2370783-07,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 06 16:40:35 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 05:20:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	0.000		0	N.D.		
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	0.000		0	N.D.	d	
96)	Butyl benzyl phthalate	0.000		0	N.D.		
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
107)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

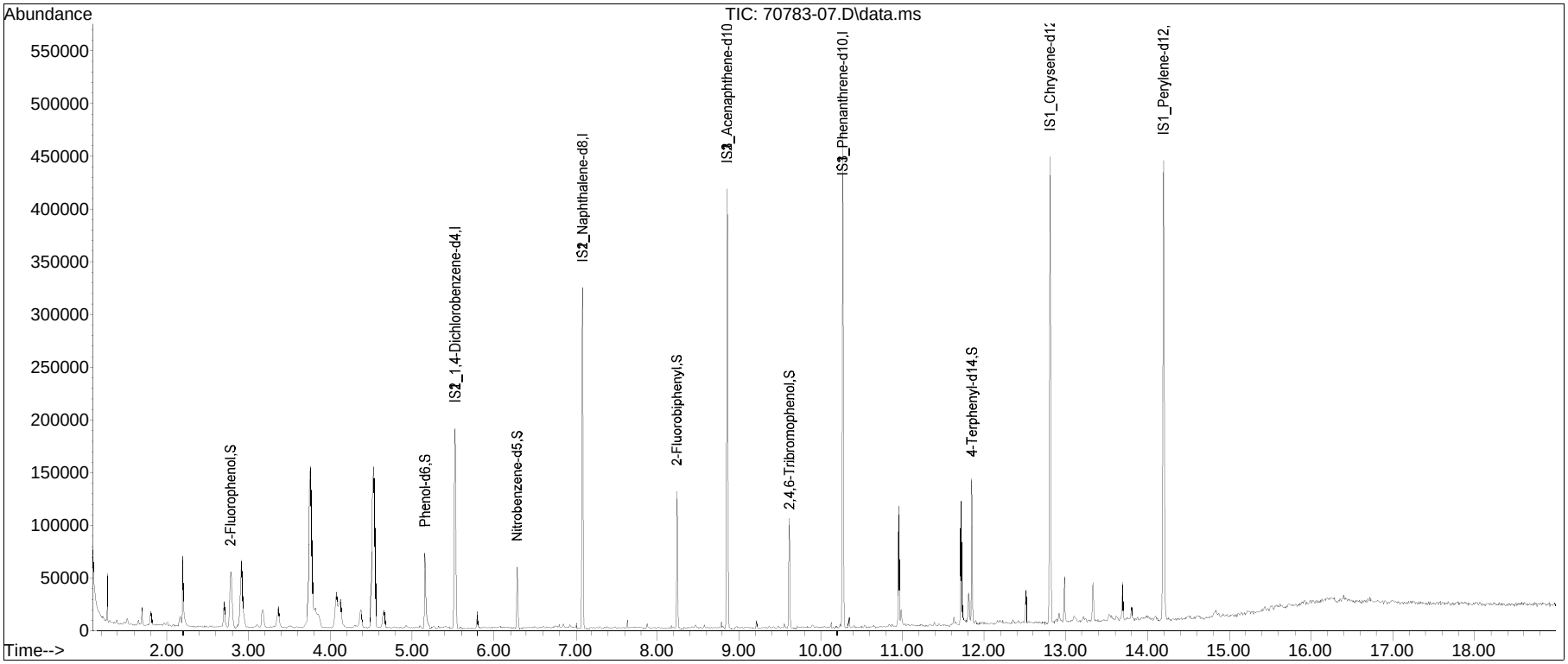
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-07.D
Acq On : 5 Dec 2023 5:00 am
Operator : SV106:sz
Sample : L2370783-07,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 06 16:40:35 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 05:20:27 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP91204na.D•



Manual Integration Report

Data Path	: I:\8270\SV106\231204nalvi\	QMethod	: FS230902SV106.m
Data File	: 70783-07.D	Operator	: SV106:sz
Date Inj'd	: 12/5/2023 5:00 am	Instrument	: SV 106
Sample	: L2370783-07,32,,ASK	Quant Date	: 12/5/2023 5:20 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-08.D
Acq On : 5 Dec 2023 5:24 am
Operator : SV106:sz
Sample : L2370783-08,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 06 16:41:10 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 05:44:06 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	5.528	152	44723	4.000	ug/ml		0.00
Standard Area 1 = 35534			Recovery = 125.86%				
27) IS2_1,4-Dichlorobenzen...	5.528	152	44723	4.000	ug/ml		0.00
Standard Area 3 = 42220			Recovery = 105.93%				
34) IS1_Naphthalene-d8	7.087	136	172531	4.000	ug/ml	#	0.00
Standard Area 1 = 137007			Recovery = 125.93%				
54) IS2_Naphthalene-d8	7.087	136	172531	4.000	ug/ml	#	0.00
Standard Area 3 = 169210			Recovery = 101.96%				
62) IS1_Acenaphthene-d10	8.857	164	98940	4.000	ug/ml		0.00
Standard Area 1 = 78857			Recovery = 125.47%				
82) IS2_Acenaphthene-d10	8.857	164	98940	4.000	ug/ml		0.00
Standard Area 3 = 97131			Recovery = 101.86%				
85) IS3_Acenaphthene-d10	8.857	164	98940	4.000	ug/ml		0.00
Standard Area 2 = 100748			Recovery = 98.21%				
87) IS1_Phenanthrene-d10	10.269	188	199425	4.000	ug/ml	#	0.00
Standard Area 1 = 155365			Recovery = 128.36%				
99) IS3_Phenanthrene-d10	10.269	188	199425	4.000	ug/ml	#	0.00
Standard Area 2 = 209251			Recovery = 95.30%				
103) IS1_Chrysene-d12	12.810	240	170379	4.000	ug/ml		0.00
Standard Area 1 = 136847			Recovery = 124.50%				
112) IS1_Perylene-d12	14.204	264	182556	4.000	ug/ml		0.00
Standard Area 1 = 150903			Recovery = 120.98%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.781	112	33477	2.684	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 53.68%				
7) Phenol-d6	5.163	99	35149	2.188	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 43.76%				
19) Nitrobenzene-d5	6.287	82	23734	1.629	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 65.16%				
45) 2-Fluorobiphenyl	8.239	172	46621	1.416	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 56.64%				
78) 2,4,6-Tribromophenol	9.622	330	14051	3.095	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 61.90%				
95) 4-Terphenyl-d14	11.851	244	60721	1.388	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 55.52%				

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-08.D
Acq On : 5 Dec 2023 5:24 am
Operator : SV106:sz
Sample : L2370783-08,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 06 16:41:10 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 05:44:06 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-08.D
Acq On : 5 Dec 2023 5:24 am
Operator : SV106:sz
Sample : L2370783-08,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 06 16:41:10 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 05:44:06 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	0.000		0	N.D.	d	
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	0.000		0	N.D.	d	
96)	Butyl benzyl phthalate	0.000		0	N.D.	d	
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
107)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

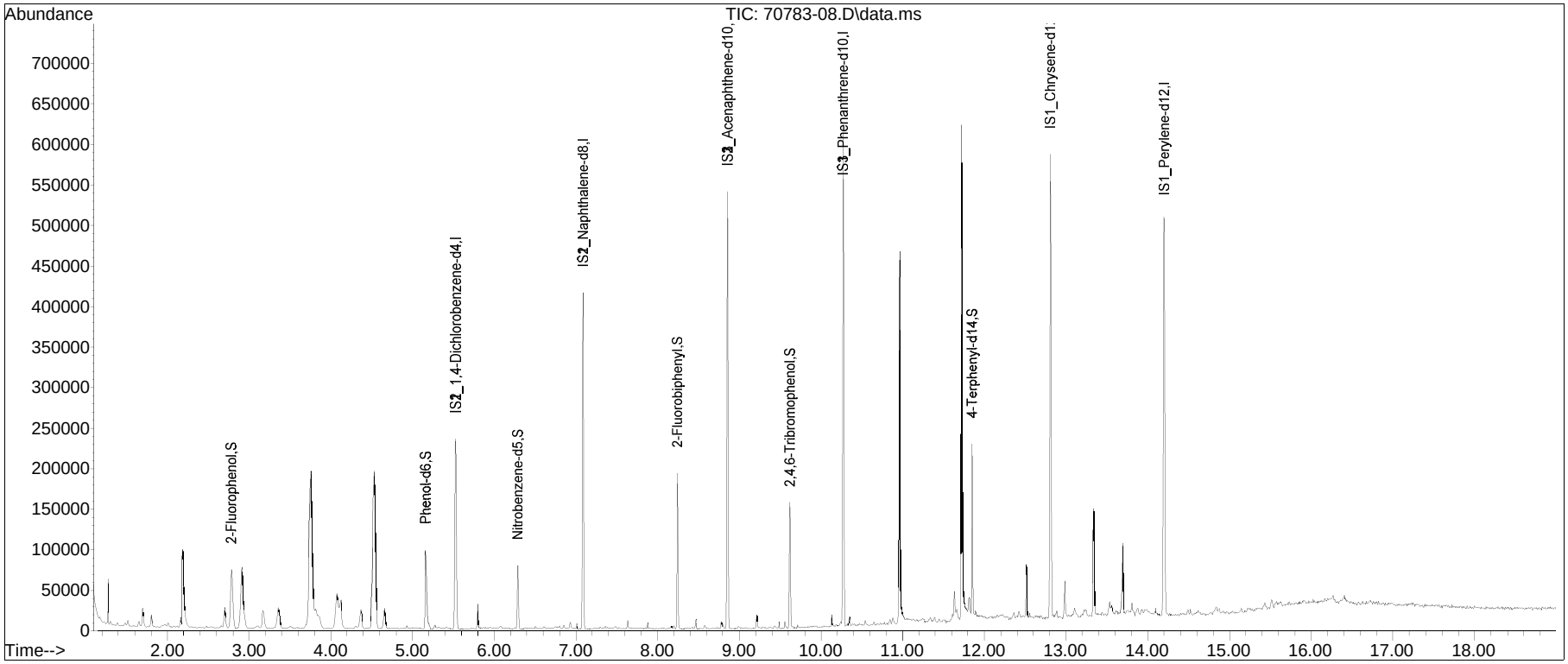
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-08.D
Acq On : 5 Dec 2023 5:24 am
Operator : SV106:sz
Sample : L2370783-08,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 06 16:41:10 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 05:44:06 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP91204na.D•



Manual Integration Report

Data Path	: I:\8270\SV106\231204nalvi\	QMethod	: FS230902SV106.m
Data File	: 70783-08.D	Operator	: SV106:sz
Date Inj'd	: 12/5/2023 5:24 am	Instrument	: SV 106
Sample	: L2370783-08,32,,ASK	Quant Date	: 12/5/2023 5:44 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-09.D
Acq On : 5 Dec 2023 5:47 am
Operator : SV106:sz
Sample : L2370783-09,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 06 16:41:34 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 06:07:37 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	5.528	152	30585	4.000	ug/ml		0.00
Standard Area 1 = 35534			Recovery = 86.07%				
27) IS2_1,4-Dichlorobenzen...	5.528	152	30585	4.000	ug/ml		0.00
Standard Area 3 = 42220			Recovery = 72.44%				
34) IS1_Naphthalene-d8	7.086	136	114344	4.000	ug/ml	#	0.00
Standard Area 1 = 137007			Recovery = 83.46%				
54) IS2_Naphthalene-d8	7.086	136	114344	4.000	ug/ml	#	0.00
Standard Area 3 = 169210			Recovery = 67.58%				
62) IS1_Acenaphthene-d10	8.857	164	63707	4.000	ug/ml		0.00
Standard Area 1 = 78857			Recovery = 80.79%				
82) IS2_Acenaphthene-d10	8.857	164	63707	4.000	ug/ml		0.00
Standard Area 3 = 97131			Recovery = 65.59%				
85) IS3_Acenaphthene-d10	8.857	164	63707	4.000	ug/ml		0.00
Standard Area 2 = 100748			Recovery = 63.23%				
87) IS1_Phenanthrene-d10	10.269	188	123469	4.000	ug/ml	#	0.00
Standard Area 1 = 155365			Recovery = 79.47%				
99) IS3_Phenanthrene-d10	10.269	188	123469	4.000	ug/ml	#	0.00
Standard Area 2 = 209251			Recovery = 59.01%				
103) IS1_Chrysene-d12	12.810	240	104886	4.000	ug/ml	#	0.00
Standard Area 1 = 136847			Recovery = 76.64%				
112) IS1_Perylene-d12	14.198	264	120175	4.000	ug/ml		0.00
Standard Area 1 = 150903			Recovery = 79.64%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.781	112	19779	2.319	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 46.38%				
7) Phenol-d6	5.163	99	20756	1.889	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 37.78%				
19) Nitrobenzene-d5	6.287	82	14808	1.486	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 59.44%				
45) 2-Fluorobiphenyl	8.239	172	29615	1.357	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 54.28%				
78) 2,4,6-Tribromophenol	9.622	330	7692	2.631	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 52.62%				
95) 4-Terphenyl-d14	11.845	244	37268	1.376	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 55.04%				

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-09.D
Acq On : 5 Dec 2023 5:47 am
Operator : SV106:sz
Sample : L2370783-09,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 06 16:41:34 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 06:07:37 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-09.D
Acq On : 5 Dec 2023 5:47 am
Operator : SV106:sz
Sample : L2370783-09,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 06 16:41:34 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 06:07:37 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	0.000		0	N.D.		
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	0.000		0	N.D.	d	
96)	Butyl benzyl phthalate	0.000		0	N.D.		
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
107)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

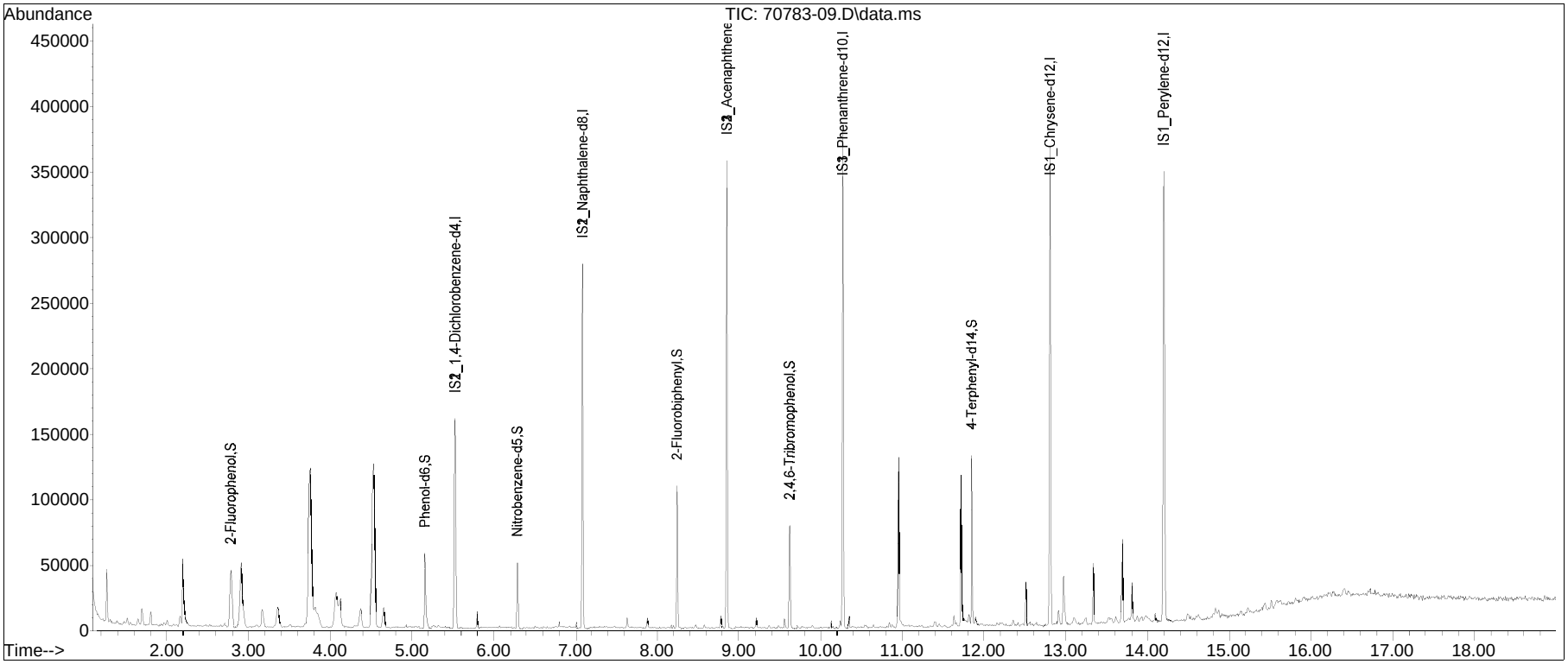
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-09.D
Acq On : 5 Dec 2023 5:47 am
Operator : SV106:sz
Sample : L2370783-09,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 06 16:41:34 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 06:07:37 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP91204na.D•



Manual Integration Report

Data Path	: I:\8270\SV106\231204nalvi\	QMethod	: FS230902SV106.m
Data File	: 70783-09.D	Operator	: SV106:sz
Date Inj'd	: 12/5/2023 5:47 am	Instrument	: SV 106
Sample	: L2370783-09,32,,ASK	Quant Date	: 12/5/2023 6:07 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-11.D
Acq On : 5 Dec 2023 6:11 am
Operator : SV106:sz
Sample : L2370783-11,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 06 16:42:01 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 06:31:48 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.528	152	31298	4.000	ug/ml	0.00
Standard Area 1 = 35534			Recovery = 88.08%			
27) IS2_1,4-Dichlorobenzen...	5.528	152	31298	4.000	ug/ml	0.00
Standard Area 3 = 42220			Recovery = 74.13%			
34) IS1_Naphthalene-d8	7.086	136	115179	4.000	ug/ml	# 0.00
Standard Area 1 = 137007			Recovery = 84.07%			
54) IS2_Naphthalene-d8	7.086	136	115179	4.000	ug/ml	# 0.00
Standard Area 3 = 169210			Recovery = 68.07%			
62) IS1_Acenaphthene-d10	8.857	164	61464	4.000	ug/ml	0.00
Standard Area 1 = 78857			Recovery = 77.94%			
82) IS2_Acenaphthene-d10	8.857	164	61464	4.000	ug/ml	0.00
Standard Area 3 = 97131			Recovery = 63.28%			
85) IS3_Acenaphthene-d10	8.857	164	61464	4.000	ug/ml	0.00
Standard Area 2 = 100748			Recovery = 61.01%			
87) IS1_Phenanthrene-d10	10.269	188	118006	4.000	ug/ml	# 0.00
Standard Area 1 = 155365			Recovery = 75.95%			
99) IS3_Phenanthrene-d10	10.269	188	118006	4.000	ug/ml	# 0.00
Standard Area 2 = 209251			Recovery = 56.39%			
103) IS1_Chrysene-d12	12.810	240	100006	4.000	ug/ml	# 0.00
Standard Area 1 = 136847			Recovery = 73.08%			
112) IS1_Perylene-d12	14.198	264	113316	4.000	ug/ml	0.00
Standard Area 1 = 150903			Recovery = 75.09%			
System Monitoring Compounds						
4) 2-Fluorophenol	2.781	112	22383	2.564	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 51.28%			
7) Phenol-d6	5.163	99	27512	2.447	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 48.94%			
19) Nitrobenzene-d5	6.286	82	20076	1.969	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 78.76%			
45) 2-Fluorobiphenyl	8.239	172	38101	1.733	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 69.32%			
78) 2,4,6-Tribromophenol	9.622	330	6769	2.400	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 48.00%			
95) 4-Terphenyl-d14	11.845	244	48675	1.881	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 75.24%			

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-11.D
Acq On : 5 Dec 2023 6:11 am
Operator : SV106:sz
Sample : L2370783-11,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 06 16:42:01 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 06:31:48 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.	d	
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.	d	
29) Acetophenone	0.000		0	N.D.	d	
37) 4-Chloroaniline	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-11.D
Acq On : 5 Dec 2023 6:11 am
Operator : SV106:sz
Sample : L2370783-11,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 06 16:42:01 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 06:31:48 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	0.000		0	N.D.		
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	0.000		0	N.D.	d	
96)	Butyl benzyl phthalate	0.000		0	N.D.		
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
107)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

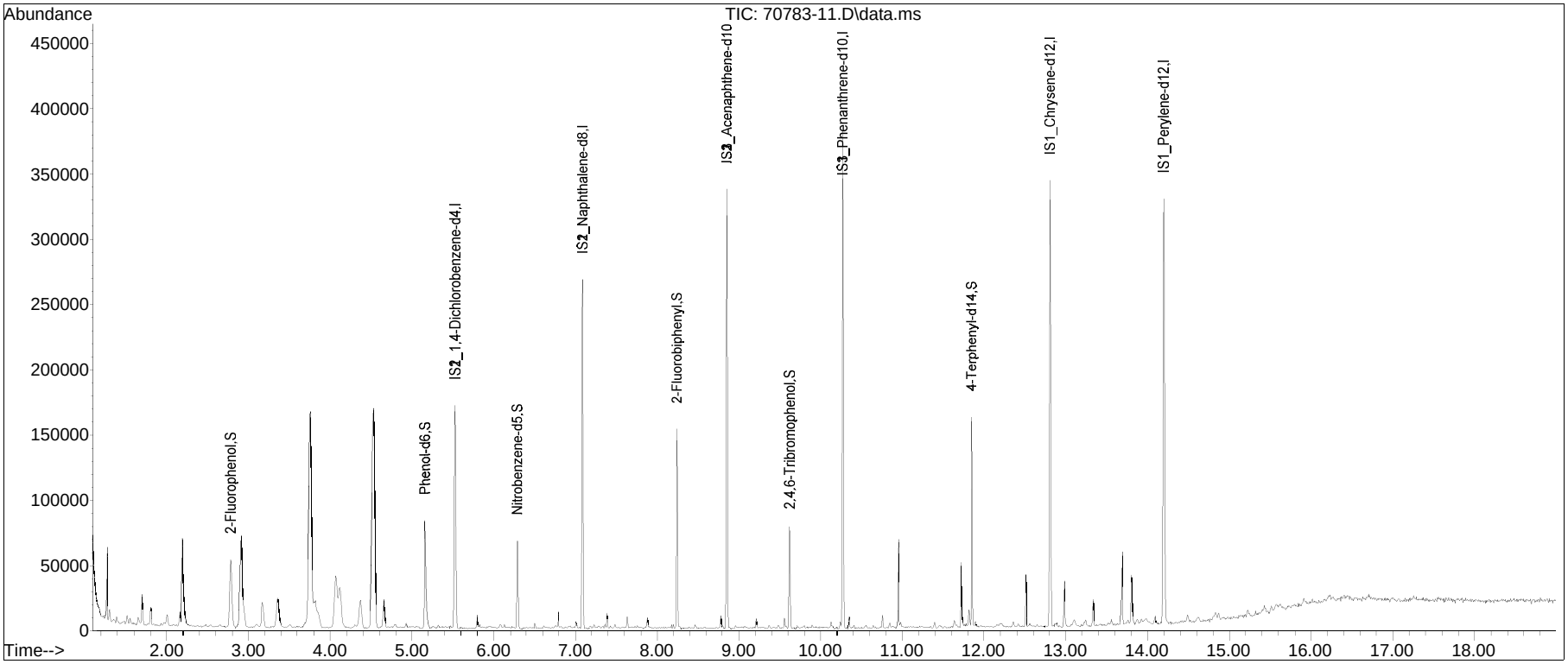
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 70783-11.D
Acq On : 5 Dec 2023 6:11 am
Operator : SV106:sz
Sample : L2370783-11,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 06 16:42:01 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 06:31:48 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP91204na.D•



Manual Integration Report

Data Path	: I:\8270\SV106\231204nalvi\	QMethod	: FS230902SV106.m
Data File	: 70783-11.D	Operator	: SV106:sz
Date Inj'd	: 12/5/2023 6:11 am	Instrument	: SV 106
Sample	: L2370783-11,32,,ASK	Quant Date	: 12/5/2023 6:31 am

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL20337**
Calibration dates	**: 09/02/23 12:13 09/03/23 00:52**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	t	N-Nitrosodimethylamine		0.648	0.703	0.681	0.660	0.622	0.719	0.685	0.676	0.702	0.677	4.47
3)	t	Pyridine	1.054	1.120	1.163	1.116	1.175	1.061	1.236	1.233	1.179	1.168	1.151	5.45
4)	S	2-Fluorophenol	1.088	1.096	1.126	1.083	1.108	0.995	1.181	1.182	1.146	1.151	1.116	4.99
5)	T	Aniline	1.838	1.833	1.964	1.902	1.868	1.720	2.000	1.918	1.903	1.985	1.893	4.42
6)	t	2-Chlorophenol	1.219	1.195	1.332	1.275	1.232	1.185	1.371	1.300	1.302	1.333	1.274	5.01
7)	S	Phenol-d6	1.324	1.450	1.447	1.418	1.415	1.329	1.552	1.459	1.466	1.513	1.437	4.96
8)	T	Phenol	1.574	1.402	1.560	1.504	1.542	1.373	1.603	1.551	1.523	1.579	1.521	5.01
9)	T	bis(2-Chloroethyl)ether	1.344	1.167	1.223	1.216	1.205	1.114	1.275	1.221	1.206	1.247	1.222	5.00
10)	T	1,3-Dichlorobenzene	1.513	1.406	1.544	1.452	1.452	1.343	1.510	1.469	1.451	1.468	1.461	3.91
11)	T	1,4-Dichlorobenzene	1.759	1.418	1.531	1.494	1.463	1.344	1.561	1.490	1.474	1.497	1.503	7.18
12)	T	1,2-Dichlorobenzene	1.543	1.424	1.464	1.456	1.374	1.288	1.496	1.422	1.403	1.441	1.431	4.84
13)	t	Benzyl alcohol	1.065	0.893	1.101	1.048	1.048	0.989	1.167	1.122	1.117	1.185	1.074	8.05
14)	T	bis(2-chloroisopropyl)ether	1.769	1.838	1.890	1.806	1.800	1.644	1.898	1.820	1.744	1.786	1.800	4.06
15)	T	2-Methylphenol	1.062	1.118	1.139	1.150	1.104	1.017	1.221	1.184	1.167	1.215	1.138	5.70
16)	T	Hexachloroethane	0.590	0.574	0.631	0.572	0.572	0.535	0.613	0.589	0.585	0.600	0.586	4.46
17)	T	n-Nitrosodi-n-propylamine	0.970	0.903	0.936	0.894	0.893	0.833	0.981	0.922	0.925	0.978	0.923	4.98
18)	T	3-Methylphenol/4-Methylphenol	1.065	1.100	1.213	1.221	1.177	1.092	1.292	1.238	1.227	1.309	1.193	7.02
19)	S	Nitrobenzene-d5	1.349	1.280	1.290	1.189	1.281	1.160	1.381	1.348	1.345	1.407	1.303	6.12
20)	T	Nitrobenzene	1.173	1.318	1.243	1.244	1.278	1.189	1.396	1.359	1.350	1.396	1.295	6.30
21)	T	Isophorone	2.439	2.405	2.498	2.425	2.467	2.235	2.627	2.531	2.491	2.660	2.478	4.81
22)	T	2-Nitrophenol	0.473	0.461	0.464	0.461	0.482	0.467	0.596	0.573	0.581	0.621	0.518	12.71
23)	T	2,4-Dimethylphenol	1.263	1.209	1.251	1.250	1.287	1.202	1.384	1.328	1.310	1.324	1.281	4.45
24)	T	bis(2-Chloroethoxy)methane	1.673	1.453	1.571	1.543	1.508	1.418	1.628	1.583	1.526	1.621	1.552	5.12
25)	T	2,4-Dichlorophenol	0.973	0.961	1.024	1.067	1.090	1.018	1.186	1.141	1.104	1.192	1.076	7.62
26)	T	1,2,4-Trichlorobenzene	1.228	1.215	1.287	1.261	1.240	1.103	1.291	1.244	1.212	1.268	1.235	4.36
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------											
28)	T	Benzaldehyde			1.071	0.918	0.885	1.299	0.926	0.801	0.740	0.787	0.928	19.58
29)	T	Acetophenone	2.251	1.920	1.957	1.826	1.903	2.587	1.898	1.810	1.883	1.906	1.994	12.10
30)	T	m-Toluidine			1.492	1.442	1.434	2.182	1.574	1.433	1.382	1.459	1.550	16.86
31)	T	2-Chloroaniline	1.889	1.484	1.696	1.521	1.557	2.203	1.625	1.546	1.579	1.606	1.670	13.12
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------											
33)	T	n-Decane	1.354	1.422	1.378	1.307	1.338	1.336	1.316	1.338	1.318	1.363	1.347	2.55
34)	I	IS1_Naphthalene-d8	----------ISTD----------											
35)	T	Naphthalene	1.046	0.979	1.049	1.016	0.962	0.894	1.038	1.026	1.019	1.055	1.008	4.98
36)	T	Benzoic Acid					0.154	0.161	0.230	0.246	0.255	0.273	*L	0.9982

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL20337**
Calibration dates	**: 09/02/23 12:13 09/03/23 00:52**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37)	T	4-Chloroaniline	0.147	0.112	0.132	0.134	0.127	0.119	0.142	0.136	0.133	0.138	0.132	7.98
38)	T	Hexachlorobutadiene	0.233	0.210	0.211	0.200	0.208	0.180	0.206	0.206	0.199	0.203	0.206	6.37
39)	T	p-Chloro-m-cresol	0.257	0.259	0.292	0.275	0.293	0.268	0.314	0.315	0.312	0.330	0.291	8.87
40)	T	2-Methylnaphthalene	0.631	0.635	0.683	0.650	0.622	0.571	0.661	0.653	0.641	0.673	0.642	4.86
41)	T	1-Methylnaphthalene	0.217	0.243	0.253	0.253	0.232	0.218	0.251	0.249	0.240	0.251	0.241	5.70
42)	T	Hexachlorocyclopentadiene	0.212	0.203	0.213	0.219	0.221	0.195	0.234	0.230	0.232	0.234	0.219	6.17
43)	T	2,4,6-Trichlorophenol	0.195	0.184	0.205	0.202	0.204	0.182	0.227	0.222	0.223	0.242	0.209	9.27
44)	T	2,4,5-Trichlorophenol	0.230	0.191	0.222	0.220	0.220	0.196	0.243	0.241	0.240	0.241	0.224	8.26
45)	S	2-Fluorobiphenyl	0.835	0.731	0.799	0.785	0.737	0.676	0.772	0.771	0.748	0.781	0.764	5.70
46)	T	2-Chloronaphthalene	0.685	0.640	0.719	0.682	0.665	0.597	0.684	0.674	0.658	0.687	0.669	4.89
47)	T	2-Nitroaniline			0.158	0.153	0.162	0.156	0.192	0.195	0.197	0.208	*L	0.9975
48)	T	1,4-Dinitrobenzene				0.069	0.069	0.061	0.083	0.085	0.089	0.096	*L	0.9958
49)	T	1,3-Dinitrobenzene				0.080	0.076	0.076	0.094	0.099	0.107	0.112	*L	0.9969
50)	T	Dimethyl phthalate	0.828	0.719	0.845	0.777	0.777	0.710	0.808	0.810	0.779	0.821	0.787	5.69
51)	T	Acenaphthylene	1.110	1.006	1.125	1.073	1.054	0.948	1.112	1.118	1.083	1.140	1.077	5.59
52)	T	2,6-Dinitrotoluene			0.129	0.136	0.133	0.126	0.159	0.161	0.159	0.167	*L	0.9978
53)	T	1,2-Dinitrobenzene				0.055	0.058	0.056	0.069	0.069	0.067	0.070	0.063	10.66
54)	I	IS2_Naphthalene-d8	----------ISTD----------											
55)	T	a-Terpineol	0.327	0.276	0.274	0.267	0.267	0.376	0.273	0.268	0.284	0.275	0.289	12.23
56)	T	3-Chloroaniline	0.150	0.143	0.153	0.145	0.145	0.202	0.148	0.139	0.140	0.138	0.150	12.50
57)	T	2,6-Dichlorophenol	0.269	0.249	0.244	0.254	0.263	0.378	0.272	0.270	0.285	0.282	0.277	13.72
58)	T	1-chloro-2-nitrobenzene	0.125	0.121	0.128	0.116	0.115	0.174	0.128	0.130	0.139	0.135	0.131	13.00
59)	T	Caprolactam	0.122	0.140	0.132	0.129	0.135	0.199	0.150	0.148	0.160	0.152	0.147	14.87
60)	T	1,2,4,5-Tetrachlorobenzene	0.383	0.370	0.337	0.334	0.319	0.446	0.323	0.316	0.332	0.321	0.348	11.76
61)	T	Biphenyl	0.951	0.858	0.839	0.798	0.794	1.117	0.800	0.785	0.813	0.802	0.856	12.19
62)	I	IS1_Acenaphthene-d10	----------ISTD----------											
63)	T	3-Nitroaniline		0.218	0.276	0.261	0.272	0.262	0.330	0.312	0.313	0.331	0.286	13.35
64)	T	Acenaphthene	1.245	1.152	1.174	1.130	1.082	0.999	1.158	1.107	1.095	1.164	1.131	5.82
65)	T	2,4-Dinitrophenol				0.094	0.110	0.108	0.137	0.138	0.155	0.165	*L	0.9965
66)	T	Dibenzofuran	1.692	1.754	1.791	1.672	1.656	1.509	1.750	1.672	1.669	1.738	1.690	4.63
67)	T	2,4-Dinitrotoluene			0.309	0.306	0.304	0.304	0.380	0.371	0.389	0.411	*L	0.9969
68)	T	4-Nitrophenol			0.234	0.230	0.243	0.226	0.283	0.277	0.285	0.309	*L	0.9963
69)	T	2,3,5,6-Tetrachlorophenol	0.295	0.260	0.324	0.326	0.326	0.298	0.359	0.347	0.349	0.367	0.325	10.18
70)	T	2,3,4,6-Tetrachlorophenol	0.349	0.297	0.356	0.307	0.333	0.306	0.369	0.347	0.344	0.363	0.337	7.51
71)	T	Diethyl phthalate	1.394	1.403	1.479	1.414	1.390	1.303	1.459	1.395	1.423	1.488	1.415	3.78
72)	T	Fluorene	1.342	1.330	1.403	1.298	1.306	1.208	1.405	1.344	1.329	1.388	1.336	4.38

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL20337**
Calibration dates	**: 09/02/23 12:13 09/03/23 00:52**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
73)	T	4-Chlorophenyl-phenylether	0.686	0.675	0.667	0.641	0.614	0.566	0.645	0.624	0.610	0.646	0.637	5.59
74)	T	4-Nitroaniline	0.230	0.257	0.293	0.286	0.295	0.277	0.303	0.303	0.316	0.329	0.289	9.99
75)	T	4,6-Dinitro-o-cresol				0.126	0.148	0.131	0.181	0.183	0.203	0.221	*L	0.9946
76)	T	NDPA/DPA	1.117	1.080	1.188	1.110	1.101	1.034	1.182	1.135	1.121	1.169	1.124	4.24
77)	T	Azobenzene	1.389	1.345	1.370	1.263	1.289	1.195	1.348	1.320	1.300	1.373	1.319	4.51
78)	S	2,4,6-Tribromophenol	0.157	0.167	0.185	0.176	0.170	0.170	0.197	0.198	0.201	0.215	0.184	10.14
79)	T	4-Bromophenyl-phenylether	0.407	0.386	0.399	0.346	0.357	0.332	0.375	0.367	0.362	0.379	0.371	6.24
80)	T	Hexachlorobenzene	0.509	0.443	0.462	0.418	0.409	0.375	0.431	0.415	0.415	0.440	0.432	8.29
81)	T	Pentachlorophenol			0.215	0.223	0.221	0.215	0.270	0.262	0.269	0.292	*L	0.9965
82)	I	IS2_Acenaphthene-d10	----------ISTD----------											
83)	T	Dichloran				0.106	0.112	0.170	0.134	0.139	0.168	0.161	*L	0.9968
84)	T	Pentachloronitrobenzene			0.127	0.121	0.141	0.221	0.165	0.165	0.183	0.177	*L	0.9980
85)	I	IS3_Acenaphthene-d10	----------ISTD----------											
86)	T	Atrazine	0.349	0.348	0.329	0.319	0.327	0.341	0.343	0.344	0.374	0.371	0.345	5.15
87)	I	IS1_Phenanthrene-d10	----------ISTD----------											
88)	T	Phenanthrene	1.156	1.108	1.102	1.068	1.103	0.974	1.096	1.069	1.087	1.130	1.089	4.45
89)	T	Anthracene	1.094	1.003	1.131	1.087	1.102	0.980	1.115	1.078	1.107	1.145	1.084	4.88
90)	T	Carbazole	0.877	0.956	1.011	1.020	0.994	0.914	1.023	1.006	1.049	1.058	0.991	5.86
91)	T	Di-n-butylphthalate	1.197	1.122	1.237	1.231	1.251	1.163	1.356	1.316	1.384	1.431	1.269	7.89
92)	T	Fluoranthene	1.161	1.071	1.171	1.161	1.161	1.044	1.213	1.191	1.219	1.254	1.165	5.52
93)	T	Benzidine	0.656	0.641	0.750	0.762	0.786	0.704	0.850	0.847	0.869	0.832	0.770	10.67
94)	T	Pyrene	1.204	1.183	1.265	1.248	1.228	1.103	1.271	1.240	1.272	1.315	1.233	4.79
95)	S	4-Terphenyl-d14	0.837	0.839	0.902	0.885	0.864	0.794	0.919	0.883	0.905	0.945	0.877	5.09
96)	T	Butyl benzyl phthalate			0.406	0.510	0.497	0.523	0.495	0.587	0.583	0.631	0.641	0.541	13.94
97)	I	IS2_Phenanthrene-d10	----------ISTD----------											
98)	T	Diphenamid	0.469	0.442	0.454	0.474	0.474	0.699	0.509	0.489	0.531	0.539	0.508	14.56
99)	I	IS3_Phenanthrene-d10	----------ISTD----------											
100)	T	n-Octadecane	0.468	0.466	0.443	0.422	0.457	0.467	0.456	0.469	0.466	0.483	0.460	3.67
101)	T	Parathion	0.091	0.089	0.084	0.078	0.085	0.085	0.093	0.101	0.112	0.120	0.094	14.22
102)	T	3,3'-Dimethylbenzidine				0.389	0.505	0.540	0.594	0.659	0.717	0.744	0.780	*L	0.9978
103)	I	IS1_Chrysene-d12	----------ISTD----------											
104)	T	Benzo[a]anthracene	1.463	1.326	1.375	1.250	1.283	1.188	1.340	1.321	1.331	1.377	1.326	5.66
105)	T	3,3'-Dichlorobenzidine	0.428	0.404	0.475	0.442	0.471	0.439	0.510	0.506	0.516	0.525	0.472	8.89
106)	T	Chrysene	1.392	1.242	1.284	1.202	1.205	1.095	1.258	1.210	1.203	1.216	1.231	6.11
107)	T	bis(2-Ethylhexyl)phthalate	0.726	0.750	0.902	0.872	0.879	0.827	0.990	0.965	0.973	1.003	0.889	11.02
108)	T	Di-n-octylphthalate	1.204	1.244	1.446	1.403	1.484	1.405	1.693	1.661	1.718	1.736	1.499	12.98

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV106**	**Ical Ref**	**: ICAL20337**
Calibration dates	**: 09/02/23 12:13 09/03/23 00:52**		

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D

L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
109) T	Benzo(b)fluoranthene	1.277	1.135	1.311	1.217	1.346	1.123	1.379	1.315	1.304	1.254	1.266	6.73
110) T	Benzo(k)fluoranthene	1.284	1.239	1.215	1.255	1.110	1.160	1.226	1.219	1.186	1.245	1.214	4.15
111) T	Benzo(a)pyrene	1.056	0.984	1.138	1.086	1.070	0.993	1.161	1.123	1.116	1.108	1.083	5.43
112) I	IS1_Perylene-d12	----------ISTD----------											
113) T	Indeno(1,2,3-cd)pyrene	0.916	0.838	0.921	0.920	0.887	0.832	0.993	0.979	1.058	1.000	0.935	7.81
114) T	Dibenzo[a,h]anthracene	0.899	0.918	0.990	0.974	0.975	0.921	1.091	1.064	1.090	1.073	0.999	7.49
115) T	Benzo(g,h,i)perylene	0.969	0.962	1.043	0.994	0.967	0.906	1.065	1.022	1.042	0.945	0.991	5.09

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL20485**
Calibration dates	**: 10/26/23 00:22 10/27/23 13:53**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =ABNL8a.D L9 =ABNL9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	t	N-Nitrosodimethylamine	0.608	0.629	0.736	0.751	0.720	0.682	0.785	0.809	0.757	0.805	0.728	9.57
3)	t	Pyridine	1.030	1.088	1.455	1.380	1.301	1.248	1.281	1.450	1.294	1.437	1.296	11.28
4)	S	2-Fluorophenol	0.887	0.903	1.048	1.073	1.069	1.057	1.159	1.208	1.163	1.231	1.080	10.82
5)	T	Aniline	1.511	1.548	1.793	1.794	1.807	1.756	1.936	1.946	1.911	2.014	1.802	9.19
6)	t	2-Chlorophenol	1.060	1.056	1.168	1.201	1.201	1.128	1.280	1.284	1.245	1.297	1.192	7.45
7)	S	Phenol-d6	1.287	1.127	1.330	1.325	1.326	1.303	1.453	1.496	1.435	1.514	1.360	8.59
8)	T	Phenol	1.245	1.277	1.420	1.487	1.445	1.401	1.584	1.589	1.538	1.594	1.458	8.61
9)	T	bis(2-Chloroethyl)ether	1.014	1.167	1.218	1.223	1.206	1.167	1.266	1.288	1.251	1.291	1.209	6.74
10)	T	1,3-Dichlorobenzene	1.316	1.423	1.454	1.529	1.438	1.335	1.483	1.465	1.456	1.477	1.438	4.56
11)	T	1,4-Dichlorobenzene	1.494	1.424	1.488	1.513	1.451	1.369	1.492	1.488	1.479	1.503	1.470	3.00
12)	T	1,2-Dichlorobenzene	1.389	1.419	1.413	1.442	1.308	1.320	1.412	1.408	1.410	1.459	1.398	3.46
13)	t	Benzyl alcohol	0.719	0.809	0.880	0.958	0.931	0.924	1.036	1.054	1.084	1.120	0.952	13.32
14)	T	bis(2-chloroisopropyl)ether	2.362	2.448	2.503	2.483	2.398	2.317	2.520	2.566	2.441	2.448	2.449	3.06
15)	T	2-Methylphenol	0.898	0.892	0.988	1.016	1.032	1.009	1.139	1.146	1.122	1.145	1.039	9.36
16)	T	Hexachloroethane	0.517	0.555	0.574	0.589	0.578	0.529	0.602	0.589	0.588	0.611	0.573	5.33
17)	T	n-Nitrosodi-n-propylamine		0.770	0.843	0.870	0.880	0.845	0.960	0.937	0.958	0.983	0.894	7.84
18)	T	3-Methylphenol/4-Methylphenol	0.990	0.989	1.040	1.087	1.111	1.071	1.218	1.232	1.199	1.238	1.118	8.75
19)	S	Nitrobenzene-d5	1.123	1.194	1.226	1.287	1.271	1.221	1.416	1.361	1.373	1.410	1.288	7.71
20)	T	Nitrobenzene	1.195	1.222	1.309	1.296	1.315	1.252	1.420	1.403	1.401	1.431	1.324	6.48
21)	T	Isophorone	2.170	2.019	2.145	2.228	2.217	2.226	2.554	2.526	2.555	2.584	2.322	9.01
22)	T	2-Nitrophenol				0.550	0.557	0.554	0.648	0.618	0.669	0.671	0.610	9.03
23)	T	2,4-Dimethylphenol		0.953	1.128	1.187	1.186	1.166	1.313	1.294	1.306	1.313	1.205	9.87
24)	T	bis(2-Chloroethoxy)methane		1.496	1.569	1.577	1.580	1.523	1.705	1.670	1.650	1.661	1.603	4.46
25)	T	2,4-Dichlorophenol		0.928	0.984	1.079	1.072	1.021	1.156	1.145	1.157	1.166	1.079	7.96
26)	T	1,2,4-Trichlorobenzene		1.255	1.298	1.308	1.244	1.146	1.301	1.271	1.295	1.284	1.267	3.96
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------											
28)	T	Benzaldehyde	0.697	0.794	0.841	0.982	0.912	0.985	1.010	1.013	1.023	1.033	0.929	12.38
29)	T	Acetophenone		1.574	1.440	1.691	1.589	1.710	1.843	1.775	1.796	1.826	1.694	8.00
30)	T	m-Toluidine		1.212	1.209	1.496	1.487	1.624	1.774	1.731	1.725	1.782	1.560	14.50
31)	T	2-Chloroaniline			1.268	1.440	1.368	1.527	1.576	1.565	1.572	1.571	1.486	7.82
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------											
33)	T	n-Decane	1.649	1.652	1.569	1.685	1.697	1.680	1.815	1.813	1.758	1.781	1.710	4.68
34)	I	IS1_Naphthalene-d8	----------ISTD----------											
35)	T	Naphthalene	1.002	0.963	1.037	1.017	1.009	0.963	1.005	1.011	1.005	1.031	1.004	2.44
36)	T	Benzoic Acid				0.130	0.152	0.170	0.220	0.212	0.256	0.267	*L	0.9957

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL20485**
Calibration dates	**: 10/26/23 00:22 10/27/23 13:53**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =ABNL8a.D L9 =ABNL9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37)	T	4-Chloroaniline	0.098	0.118	0.131	0.135	0.144	0.138	0.150	0.151	0.150	0.159	0.137	13.41
38)	T	Hexachlorobutadiene	0.187	0.220	0.210	0.199	0.190	0.190	0.199	0.189	0.200	0.206	0.199	5.32
39)	T	p-Chloro-m-cresol		0.216	0.249	0.269	0.270	0.264	0.303	0.298	0.311	0.330	0.279	12.63
40)	T	2-Methylnaphthalene	0.606	0.637	0.660	0.665	0.673	0.654	0.705	0.671	0.680	0.726	0.668	5.00
41)	T	1-Methylnaphthalene	0.246	0.211	0.225	0.238	0.236	0.227	0.245	0.240	0.240	0.257	0.236	5.40
42)	T	Hexachlorocyclopentadiene			0.197	0.206	0.218	0.212	0.239	0.216	0.244	0.250	0.223	8.67
43)	T	2,4,6-Trichlorophenol		0.167	0.186	0.186	0.206	0.210	0.234	0.221	0.236	0.248	0.210	12.80
44)	T	2,4,5-Trichlorophenol		0.173	0.206	0.210	0.223	0.225	0.251	0.239	0.257	0.271	0.228	13.20
45)	S	2-Fluorobiphenyl	0.789	0.787	0.829	0.788	0.821	0.791	0.841	0.809	0.823	0.874	0.815	3.48
46)	T	2-Chloronaphthalene	0.610	0.663	0.685	0.659	0.689	0.668	0.705	0.700	0.716	0.760	0.685	5.79
47)	T	2-Nitroaniline			0.155	0.157	0.180	0.185	0.222	0.206	0.226	0.239	*L	0.9970
48)	T	1,4-Dinitrobenzene				0.077	0.084	0.092	0.106	0.100	0.113	0.122	0.099	16.13
49)	T	1,3-Dinitrobenzene				0.094	0.101	0.107	0.120	0.116	0.122	0.132	0.113	11.75
50)	T	Dimethyl phthalate	0.713	0.768	0.800	0.797	0.815	0.818	0.861	0.823	0.850	0.897	0.814	6.25
51)	T	Acenaphthylene	0.971	0.992	1.040	1.100	1.125	1.093	1.189	1.152	1.175	1.234	1.107	7.76
52)	T	2,6-Dinitrotoluene			0.125	0.148	0.158	0.165	0.184	0.175	0.184	0.197	0.167	13.77
53)	T	1,2-Dinitrobenzene				0.067	0.067	0.070	0.076	0.074	0.077	0.083	0.073	8.14
54)	I	IS2_Naphthalene-d8	----------ISTD----------											
55)	T	a-Terpineol		0.297	0.266	0.307	0.337	0.340	0.363	0.359	0.366	0.370	0.334	10.96
56)	T	3-Chloroaniline			0.123	0.149	0.162	0.160	0.164	0.166	0.167	0.165	0.157	9.44
57)	T	2,6-Dichlorophenol			0.198	0.238	0.262	0.272	0.282	0.286	0.291	0.292	0.265	12.26
58)	T	1-chloro-2-nitrobenzene				0.126	0.143	0.141	0.145	0.143	0.150	0.150	0.143	5.76
59)	T	Caprolactam				0.151	0.166	0.182	0.203	0.207	0.220	0.223	0.193	14.26
60)	T	1,2,4,5-Tetrachlorobenzene	0.318	0.338	0.293	0.325	0.342	0.342	0.344	0.336	0.339	0.334	0.331	4.73
61)	T	Biphenyl	0.759	0.804	0.718	0.825	0.839	0.848	0.841	0.839	0.825	0.834	0.813	5.19
62)	I	IS1_Acenaphthene-d10	----------ISTD----------											
63)	T	3-Nitroaniline			0.238	0.278	0.290	0.289	0.344	0.326	0.332	0.348	0.306	12.52
64)	T	Acenaphthene	1.216	1.070	1.149	1.078	1.094	1.024	1.172	1.086	1.104	1.154	1.115	5.10
65)	T	2,4-Dinitrophenol				0.108	0.129	0.137	0.180	0.163	0.197	0.215	*L	0.9935
66)	T	Dibenzofuran	1.734	1.628	1.722	1.717	1.642	1.561	1.737	1.637	1.624	1.721	1.672	3.66
67)	T	2,4-Dinitrotoluene			0.313	0.366	0.374	0.377	0.433	0.411	0.430	0.459	0.395	11.87
68)	T	4-Nitrophenol			0.253	0.274	0.284	0.291	0.344	0.328	0.333	0.358	0.308	12.18
69)	T	2,3,5,6-Tetrachlorophenol		0.230	0.264	0.280	0.297	0.296	0.351	0.324	0.349	0.368	0.307	14.77
70)	T	2,3,4,6-Tetrachlorophenol		0.201	0.283	0.296	0.309	0.303	0.350	0.328	0.343	0.366	*L	0.9979
71)	T	Diethyl phthalate	1.153	1.162	1.351	1.328	1.324	1.296	1.452	1.382	1.400	1.530	1.338	8.73
72)	T	Fluorene	1.207	1.220	1.330	1.308	1.276	1.216	1.399	1.310	1.306	1.401	1.297	5.37

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL20485**
Calibration dates	**: 10/26/23 00:22 10/27/23 13:53**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =ABNL8a.D L9 =ABNL9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD	
73)	T	4-Chlorophenyl-phenylether	0.654	0.665	0.687	0.659	0.656	0.606	0.697	0.644	0.658	0.702	0.663	4.20	
74)	T	4-Nitroaniline			0.241	0.273	0.283	0.292	0.339	0.322	0.329	0.356	0.304	12.73	
75)	T	4,6-Dinitro-o-cresol				0.165	0.177	0.186	0.236	0.216	0.245	0.268		*L 0.9952	
76)	T	NDPA/DPA		0.955	1.065	1.086	1.098	1.041	1.184	1.096	1.091	1.197	1.090	6.61	
77)	T	Azobenzene		1.184	1.264	1.318	1.303	1.256	1.439	1.368	1.332	1.431	1.322	6.28	
78)	S	2,4,6-Tribromophenol		0.099	0.131	0.136	0.142	0.134	0.168	0.145	0.158	0.174		*L 0.9947	
79)	T	4-Bromophenyl-phenylether	0.387	0.345	0.364	0.334	0.326	0.326	0.369	0.335	0.359	0.380	0.352	6.32	
80)	T	Hexachlorobenzene	0.388	0.349	0.387	0.354	0.357	0.343	0.388	0.345	0.385	0.402	0.370	5.97	
81)	T	Pentachlorophenol			0.140	0.170	0.175	0.193	0.239	0.213	0.256	0.274		*L 0.9932	
82)	I	IS2_Acenaphthene-d10	----------ISTD----------												
83)	T	Dichloran					0.114	0.138	0.157	0.164	0.185	0.189	0.158	18.12	
84)	T	Pentachloronitrobenzene				0.132	0.142	0.153	0.167	0.168	0.179	0.187	0.161	12.31	
85)	I	IS3_Acenaphthene-d10	----------ISTD----------												
86)	T	Atrazine		0.269	0.218	0.255	0.286	0.301	0.337	0.353	0.352	0.366		*LF 0.9973	
87)	I	IS1_Phenanthrene-d10	----------ISTD----------												
88)	T	Phenanthrene	1.109	1.072	1.088	1.060	1.060	0.999	1.084	1.044	1.054	1.115	1.068	3.17	
89)	T	Anthracene	0.979	0.980	1.024	1.043	1.058	1.025	1.118	1.080	1.065	1.152	1.052	5.25	
90)	T	Carbazole	0.716	0.826	0.866	0.924	0.943	0.914	1.011	0.976	0.986	1.050	0.921	10.64	
91)	T	Di-n-butylphthalate			0.982	1.023	1.057	1.092	1.270	1.187	1.302	1.364	1.160	12.21	
92)	T	Fluoranthene	1.150	1.089	1.154	1.168	1.196	1.159	1.262	1.210	1.248	1.334	1.197	5.82	
93)	T	Benzidine				0.561	0.630	0.659	0.824	0.775	0.838	0.909		*L 0.9971	
94)	T	Pyrene	1.131	1.190	1.242	1.274	1.291	1.259	1.369	1.300	1.296	1.379	1.273	5.87	
95)	S	4-Terphenyl-d14	0.787	0.764	0.799	0.829	0.793	0.793	0.879	0.803	0.853	0.895	0.819	5.24	
96)	T	Butyl benzyl phthalate			0.350	0.382	0.411	0.426	0.535	0.504	0.566	0.616		*L 0.9943	
97)	I	IS2_Phenanthrene-d10	----------ISTD----------												
98)	T	Diphenamid				0.371	0.403	0.457	0.466	0.453	0.491	0.494	0.448	10.14	
99)	I	IS3_Phenanthrene-d10	----------ISTD----------												
100)	T	n-Octadecane			0.467	0.494	0.545	0.552	0.603	0.609	0.586	0.568	0.553	9.16	
101)	T	Parathion				0.058	0.059	0.068	0.085	0.097	0.110	0.117		*L 0.9943	
102)	T	3,3'-Dimethylbenzidine				0.329	0.378	0.438	0.583	0.646	0.696	0.735		*L 0.9973	
103)	I	IS1_Chrysene-d12	----------ISTD----------												
104)	T	Benzo[a]anthracene	1.312	1.264	1.291	1.326	1.337	1.282	1.421	1.409	1.422	1.516	1.358	5.92	
105)	T	3,3'-Dichlorobenzidine			0.354	0.407	0.437	0.428	0.509	0.482	0.529	0.548	0.462	14.43	
106)	T	Chrysene	1.480	1.350	1.331	1.346	1.353	1.272	1.360	1.307	1.344	1.371	1.352	3.96	
107)	T	bis(2-Ethylhexyl)phthalate		0.579	0.649	0.737	0.790	0.809	0.979	0.933	1.009	1.081		*Q 0.9991	
108)	T	Di-n-octylphthalate			0.939	1.073	1.148	1.299	1.549	1.527	1.673	1.791		*L 0.9961	

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV107**	**Ical Ref**	**: ICAL20485**
Calibration dates	**: 10/26/23 00:22 10/27/23 13:53**		

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =ABNL8a.D L9 =ABNL9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
109)	T	Benzo(b)fluoranthene	1.156	1.111	1.197	1.250	1.173	1.223	1.424	1.276	1.366	1.469	1.265	9.41
110)	T	Benzo(k)fluoranthene	1.059	1.070	1.212	1.290	1.259	1.293	1.214	1.335	1.231	1.258	1.222	7.47
111)	T	Benzo(a)pyrene		0.937	1.022	1.061	1.037	1.090	1.156	1.132	1.133	1.203	1.086	7.45
112)	I	IS1_Perylene-d12	----------ISTD----------											
113)	T	Indeno(1,2,3-cd)pyrene		0.749	0.825	0.827	0.865	0.831	0.899	0.917	0.978	1.032	0.880	9.85
114)	T	Dibenzo[a,h]anthracene		0.855	0.928	0.965	1.000	0.968	1.026	0.996	1.045	1.097	0.987	7.06
115)	T	Benzo(g,h,i)perylene	0.947	0.933	0.974	0.997	1.019	0.988	1.021	1.003	1.016	1.048	0.995	3.54

Response Factor Report SV 106

Method Path : I:\8270\SV106\230902lviical\
Method File : FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 11:32:08 2023
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	ISTD											
2)	t	N-Nitrosodimethylamine		0.648	0.703	0.681	0.660	0.622	0.719	0.685	0.676	0.702	0.677	4.47
3)	t	Pyridine	1.054	1.120	1.163	1.116	1.175	1.061	1.236	1.233	1.179	1.168	1.151	5.45
4)	S	2-Fluorophenol	1.088	1.096	1.126	1.083	1.108	0.995	1.181	1.182	1.146	1.151	1.116	4.99
5)	T	Aniline	1.838	1.833	1.964	1.902	1.868	1.720	2.000	1.918	1.903	1.985	1.893	4.42
6)	t	2-Chlorophenol	1.219	1.195	1.332	1.275	1.232	1.185	1.371	1.300	1.302	1.333	1.274	5.01
7)	S	Phenol-d6	1.324	1.450	1.447	1.418	1.415	1.329	1.552	1.459	1.466	1.513	1.437	4.96
8)	T	Phenol	1.574	1.402	1.560	1.504	1.542	1.373	1.603	1.551	1.523	1.579	1.521	5.01
9)	T	bis(2-Chloroethyl)ether	1.344	1.167	1.223	1.216	1.205	1.114	1.275	1.221	1.206	1.247	1.222	5.00
10)	T	1,3-Dichlorobenzene	1.513	1.406	1.544	1.452	1.452	1.343	1.510	1.469	1.451	1.468	1.461	3.91
11)	T	1,4-Dichlorobenzene	1.759	1.418	1.531	1.494	1.463	1.344	1.561	1.490	1.474	1.497	1.503	7.18
12)	T	1,2-Dichlorobenzene	1.543	1.424	1.464	1.456	1.374	1.288	1.496	1.422	1.403	1.441	1.431	4.84
13)	t	Benzyl alcohol	1.065	0.893	1.101	1.048	1.048	0.989	1.167	1.122	1.117	1.185	1.074	8.05
14)	T	bis(2-chloroisopropyl)ether	1.769	1.838	1.890	1.806	1.800	1.644	1.898	1.820	1.744	1.786	1.800	4.06
15)	T	2-Methylphenol	1.062	1.118	1.139	1.150	1.104	1.017	1.221	1.184	1.167	1.215	1.138	5.70
16)	T	Hexachloroethane	0.590	0.574	0.631	0.572	0.572	0.535	0.613	0.589	0.585	0.600	0.586	4.46
17)	T	n-Nitrosodi-n-propylamine	0.970	0.903	0.936	0.894	0.893	0.833	0.981	0.922	0.925	0.978	0.923	4.98
18)	T	3-Methylphenol/4-Methylphenol	1.065	1.100	1.213	1.221	1.177	1.092	1.292	1.238	1.227	1.309	1.193	7.02
19)	S	Nitrobenzene-d5	1.349	1.280	1.290	1.189	1.281	1.160	1.381	1.348	1.345	1.407	1.303	6.12
20)	T	Nitrobenzene	1.173	1.318	1.243	1.244	1.278	1.189	1.396	1.359	1.350	1.396	1.295	6.30
21)	T	Isophorone	2.439	2.405	2.498	2.425	2.467	2.235	2.627	2.531	2.491	2.660	2.478	4.81
22)	T	2-Nitrophenol	0.473	0.461	0.464	0.461	0.482	0.467	0.596	0.573	0.581	0.621	0.518	12.71
23)	T	2,4-Dimethylphenol	1.263	1.209	1.251	1.250	1.287	1.202	1.384	1.328	1.310	1.324	1.281	4.45
24)	T	bis(2-Chloroethoxy)methane	1.673	1.453	1.571	1.543	1.508	1.418	1.628	1.583	1.526	1.621	1.552	5.12
25)	T	2,4-Dichlorophenol	0.973	0.961	1.024	1.067	1.090	1.018	1.186	1.141	1.104	1.192	1.076	7.62
26)	T	1,2,4-Trichlorobenzene	1.228	1.215	1.287	1.261	1.240	1.103	1.291	1.244	1.212	1.268	1.235	4.36
27)	I	IS2_1,4-Dichlorobenzene-d4	ISTD											
28)	T	Benzaldehyde			1.071	0.918	0.885	1.299	0.926	0.801	0.740	0.787	0.928	19.58
29)	T	Acetophenone	2.251	1.920	1.957	1.826	1.903	2.587	1.898	1.810	1.883	1.906	1.994	12.10
30)	T	m-Toluidine			1.492	1.442	1.434	2.182	1.574	1.433	1.382	1.459	1.550	16.86
31)	T	2-Chloroaniline	1.889	1.484	1.696	1.521	1.557	2.203	1.625	1.546	1.579	1.606	1.670	13.12
32)	I	IS3_1,4-Dichlorobenzene-d4	ISTD											
33)	T	n-Decane	1.354	1.422	1.378	1.307	1.338	1.336	1.316	1.338	1.318	1.363	1.347	2.55
34)	I	IS1_Naphthalene-d8	ISTD											
35)	T	Naphthalene	1.046	0.979	1.049	1.016	0.962	0.894	1.038	1.026	1.019	1.055	1.008	4.98
36)	T	Benzoic Acid					0.154	0.161	0.230	0.246	0.255	0.273	*L	0.9982
37)	T	4-Chloroaniline	0.147	0.112	0.132	0.134	0.127	0.119	0.142	0.136	0.133	0.138	0.132	7.98
38)	T	Hexachlorobutadiene	0.233	0.210	0.211	0.200	0.208	0.180	0.206	0.206	0.199	0.203	0.206	6.37
39)	T	p-Chloro-m-cresol	0.257	0.259	0.292	0.275	0.293	0.268	0.314	0.315	0.312	0.330	0.291	8.87
40)	T	2-Methylnaphthalene	0.631	0.635	0.683	0.650	0.622	0.571	0.661	0.653	0.641	0.673	0.642	4.86
41)	T	1-Methylnaphthalene	0.217	0.243	0.253	0.253	0.232	0.218	0.251	0.249	0.240	0.251	0.241	5.70
42)	T	Hexachlorocyclopentadiene	0.212	0.203	0.213	0.219	0.221	0.195	0.234	0.230	0.232	0.234	0.219	6.17
43)	T	2,4,6-Trichlorophenol	0.195	0.184	0.205	0.202	0.204	0.182	0.227	0.222	0.223	0.242	0.209	9.27
44)	T	2,4,5-Trichlorophenol	0.230	0.191	0.222	0.220	0.220	0.196	0.243	0.241	0.240	0.241	0.224	8.26
45)	S	2-Fluorobiphenyl	0.835	0.731	0.799	0.785	0.737	0.676	0.772	0.771	0.748	0.781	0.764	5.70

Response Factor Report SV 106

Method Path : I:\8270\SV106\230902lviical\
Method File : FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 11:32:08 2023
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD	
46)	T	2-Chloronaphthalene	0.685	0.640	0.719	0.682	0.665	0.597	0.684	0.674	0.658	0.687	0.669	4.89	
47)	T	2-Nitroaniline			0.158	0.153	0.162	0.156	0.192	0.195	0.197	0.208	*L	0.9975	
48)	T	1,4-Dinitrobenzene				0.069	0.069	0.061	0.083	0.085	0.089	0.096	*L	0.9958	
49)	T	1,3-Dinitrobenzene				0.080	0.076	0.076	0.094	0.099	0.107	0.112	*L	0.9969	
50)	T	Dimethyl phthalate	0.828	0.719	0.845	0.777	0.777	0.710	0.808	0.810	0.779	0.821	0.787	5.69	
51)	T	Acenaphthylene	1.110	1.006	1.125	1.073	1.054	0.948	1.112	1.118	1.083	1.140	1.077	5.59	
52)	T	2,6-Dinitrotoluene			0.129	0.136	0.133	0.126	0.159	0.161	0.159	0.167	*L	0.9978	
53)	T	1,2-Dinitrobenzene				0.055	0.058	0.056	0.069	0.069	0.067	0.070	0.063	10.66	
54)	I	IS2_Naphthalene-d8	ISTD												
55)	T	a-Terpineol	0.327	0.276	0.274	0.267	0.267	0.376	0.273	0.268	0.284	0.275	0.289	12.23	
56)	T	3-Chloroaniline	0.150	0.143	0.153	0.145	0.145	0.202	0.148	0.139	0.140	0.138	0.150	12.50	
57)	T	2,6-Dichlorophenol	0.269	0.249	0.244	0.254	0.263	0.378	0.272	0.270	0.285	0.282	0.277	13.72	
58)	T	1-chloro-2-nitrobenzene	0.125	0.121	0.128	0.116	0.115	0.174	0.128	0.130	0.139	0.135	0.131	13.00	
59)	T	Caprolactam	0.122	0.140	0.132	0.129	0.135	0.199	0.150	0.148	0.160	0.152	0.147	14.87	
60)	T	1,2,4,5-Tetrachlorobenzene	0.383	0.370	0.337	0.334	0.319	0.446	0.323	0.316	0.332	0.321	0.348	11.76	
61)	T	Biphenyl	0.951	0.858	0.839	0.798	0.794	1.117	0.800	0.785	0.813	0.802	0.856	12.19	
62)	I	IS1_Acenaphthene-d10	ISTD												
63)	T	3-Nitroaniline		0.218	0.276	0.261	0.272	0.262	0.330	0.312	0.313	0.331	0.286	13.35	
64)	T	Acenaphthene	1.245	1.152	1.174	1.130	1.082	0.999	1.158	1.107	1.095	1.164	1.131	5.82	
65)	T	2,4-Dinitrophenol				0.094	0.110	0.108	0.137	0.138	0.155	0.165	*L	0.9965	
66)	T	Dibenzofuran	1.692	1.754	1.791	1.672	1.656	1.509	1.750	1.672	1.669	1.738	1.690	4.63	
67)	T	2,4-Dinitrotoluene			0.309	0.306	0.304	0.304	0.380	0.371	0.389	0.411	*L	0.9969	
68)	T	4-Nitrophenol			0.234	0.230	0.243	0.226	0.283	0.277	0.285	0.309	*L	0.9963	
69)	T	2,3,5,6-Tetrachlorophenol	0.295	0.260	0.324	0.326	0.326	0.298	0.359	0.347	0.349	0.367	0.325	10.18	
70)	T	2,3,4,6-Tetrachlorophenol	0.349	0.297	0.356	0.307	0.333	0.306	0.369	0.347	0.344	0.363	0.337	7.51	
71)	T	Diethyl phthalate	1.394	1.403	1.479	1.414	1.390	1.303	1.459	1.395	1.423	1.488	1.415	3.78	
72)	T	Fluorene	1.342	1.330	1.403	1.298	1.306	1.208	1.405	1.344	1.329	1.388	1.336	4.38	
73)	T	4-Chlorophenyl-phenylether	0.686	0.675	0.667	0.641	0.614	0.566	0.645	0.624	0.610	0.646	0.637	5.59	
74)	T	4-Nitroaniline	0.230	0.257	0.293	0.286	0.295	0.277	0.303	0.303	0.316	0.329	0.289	9.99	
75)	T	4,6-Dinitro-o-cresol				0.126	0.148	0.131	0.181	0.183	0.203	0.221	*L	0.9946	
76)	T	NDPA/DPA	1.117	1.080	1.188	1.110	1.101	1.034	1.182	1.135	1.121	1.169	1.124	4.24	
77)	T	Azobenzene	1.389	1.345	1.370	1.263	1.289	1.195	1.348	1.320	1.300	1.373	1.319	4.51	
78)	S	2,4,6-Tribromophenol	0.157	0.167	0.185	0.176	0.170	0.170	0.197	0.198	0.201	0.215	0.184	10.14	
79)	T	4-Bromophenyl-phenylether	0.407	0.386	0.399	0.346	0.357	0.332	0.375	0.367	0.362	0.379	0.371	6.24	
80)	T	Hexachlorobenzene	0.509	0.443	0.462	0.418	0.409	0.375	0.431	0.415	0.415	0.440	0.432	8.29	
81)	T	Pentachlorophenol			0.215	0.223	0.221	0.215	0.270	0.262	0.269	0.292	*L	0.9965	
82)	I	IS2_Acenaphthene-d10	ISTD												
83)	T	Dichloran				0.106	0.112	0.170	0.134	0.139	0.168	0.161	*L	0.9968	
84)	T	Pentachloronitrobenzene			0.127	0.121	0.141	0.221	0.165	0.165	0.183	0.177	*L	0.9980	
85)	I	IS3_Acenaphthene-d10	ISTD												
86)	T	Atrazine	0.349	0.348	0.329	0.319	0.327	0.341	0.343	0.344	0.374	0.371	0.345	5.15	
87)	I	IS1_Phenanthrene-d10	ISTD												
88)	T	Phenanthrene	1.156	1.108	1.102	1.068	1.103	0.974	1.096	1.069	1.087	1.130	1.089	4.45	
89)	T	Anthracene	1.094	1.003	1.131	1.087	1.102	0.980	1.115	1.078	1.107	1.145	1.084	4.88	
90)	T	Carbazole	0.877	0.956	1.011	1.020	0.994	0.914	1.023	1.006	1.049	1.058	0.991	5.86	

Response Factor Report SV 106

Method Path : I:\8270\SV106\230902lviical\
Method File : FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 11:32:08 2023
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =AP9L8.D L9 =AP9L9.D L10 =AP9L10.D

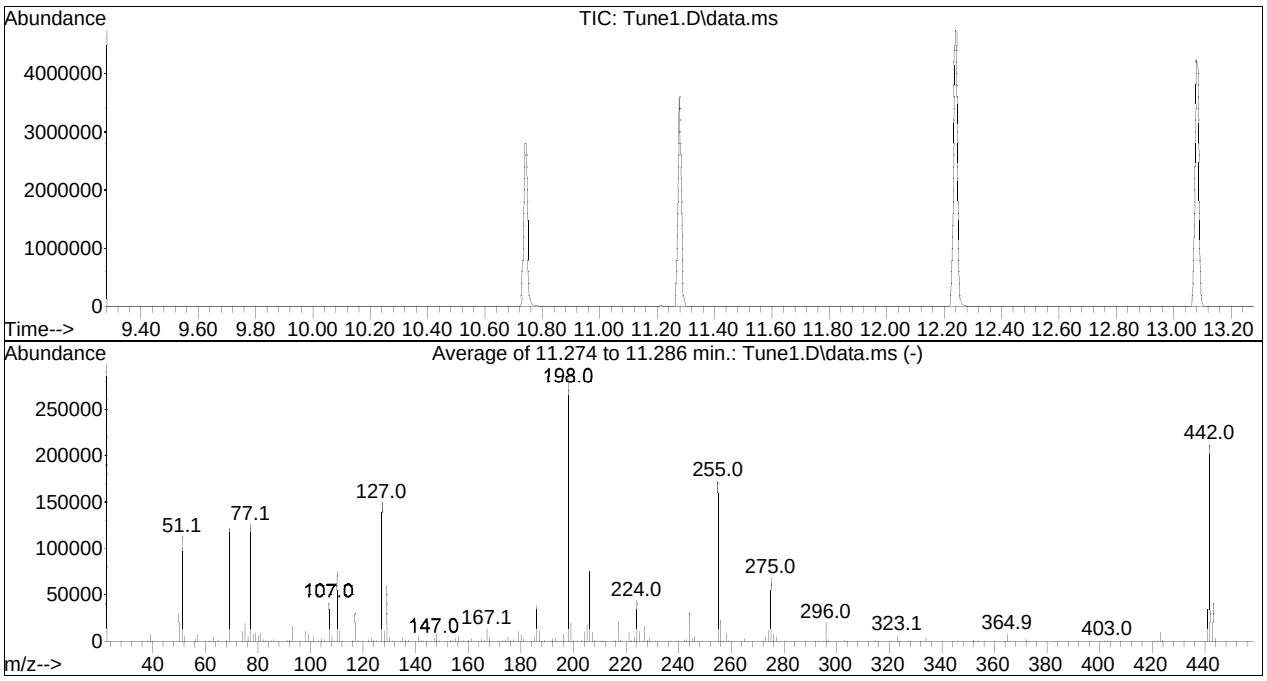
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
91)	T	Di-n-butylphthalate	1.197	1.122	1.237	1.231	1.251	1.163	1.356	1.316	1.384	1.431	1.269	7.89
92)	T	Fluoranthene	1.161	1.071	1.171	1.161	1.161	1.044	1.213	1.191	1.219	1.254	1.165	5.52
93)	T	Benzidine	0.656	0.641	0.750	0.762	0.786	0.704	0.850	0.847	0.869	0.832	0.770	10.67
94)	T	Pyrene	1.204	1.183	1.265	1.248	1.228	1.103	1.271	1.240	1.272	1.315	1.233	4.79
95)	S	4-Terphenyl-d14	0.837	0.839	0.902	0.885	0.864	0.794	0.919	0.883	0.905	0.945	0.877	5.09
96)	T	Butyl benzyl phthalate		0.406	0.510	0.497	0.523	0.495	0.587	0.583	0.631	0.641	0.541	13.94
97)	I	IS2_Phenanthrene-d10	----------ISTD----------											
98)	T	Diphenamid	0.469	0.442	0.454	0.474	0.474	0.699	0.509	0.489	0.531	0.539	0.508	14.56
99)	I	IS3_Phenanthrene-d10	----------ISTD----------											
100)	T	n-Octadecane	0.468	0.466	0.443	0.422	0.457	0.467	0.456	0.469	0.466	0.483	0.460	3.67
101)	T	Parathion	0.091	0.089	0.084	0.078	0.085	0.085	0.093	0.101	0.112	0.120	0.094	14.22
102)	T	3,3'-Dimethylbenzidine			0.389	0.505	0.540	0.594	0.659	0.717	0.744	0.780	*L	0.9978
103)	I	IS1_Chrysene-d12	----------ISTD----------											
104)	T	Benzo[a]anthracene	1.463	1.326	1.375	1.250	1.283	1.188	1.340	1.321	1.331	1.377	1.326	5.66
105)	T	3,3'-Dichlorobenzidine	0.428	0.404	0.475	0.442	0.471	0.439	0.510	0.506	0.516	0.525	0.472	8.89
106)	T	Chrysene	1.392	1.242	1.284	1.202	1.205	1.095	1.258	1.210	1.203	1.216	1.231	6.11
107)	T	bis(2-Ethylhexyl)phthalate	0.726	0.750	0.902	0.872	0.879	0.827	0.990	0.965	0.973	1.003	0.889	11.02
108)	T	Di-n-octylphthalate	1.204	1.244	1.446	1.403	1.484	1.405	1.693	1.661	1.718	1.736	1.499	12.98
109)	T	Benzo(b)fluoranthene	1.277	1.135	1.311	1.217	1.346	1.123	1.379	1.315	1.304	1.254	1.266	6.73
110)	T	Benzo(k)fluoranthene	1.284	1.239	1.215	1.255	1.110	1.160	1.226	1.219	1.186	1.245	1.214	4.15
111)	T	Benzo(a)pyrene	1.056	0.984	1.138	1.086	1.070	0.993	1.161	1.123	1.116	1.108	1.083	5.43
112)	I	IS1_Perylene-d12	----------ISTD----------											
113)	T	Indeno(1,2,3-cd)pyrene	0.916	0.838	0.921	0.920	0.887	0.832	0.993	0.979	1.058	1.000	0.935	7.81
114)	T	Dibenzo[a,h]anthracene	0.899	0.918	0.990	0.974	0.975	0.921	1.091	1.064	1.090	1.073	0.999	7.49
115)	T	Benzo(g,h,i)perylene	0.969	0.962	1.043	0.994	0.967	0.906	1.065	1.022	1.042	0.945	0.991	5.09

(#) = Out of Range

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune1.D
Acq On : 2 Sep 2023 11:50 am
Operator : SV106:ljg
Sample : Tune1
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 11:32:08 2023



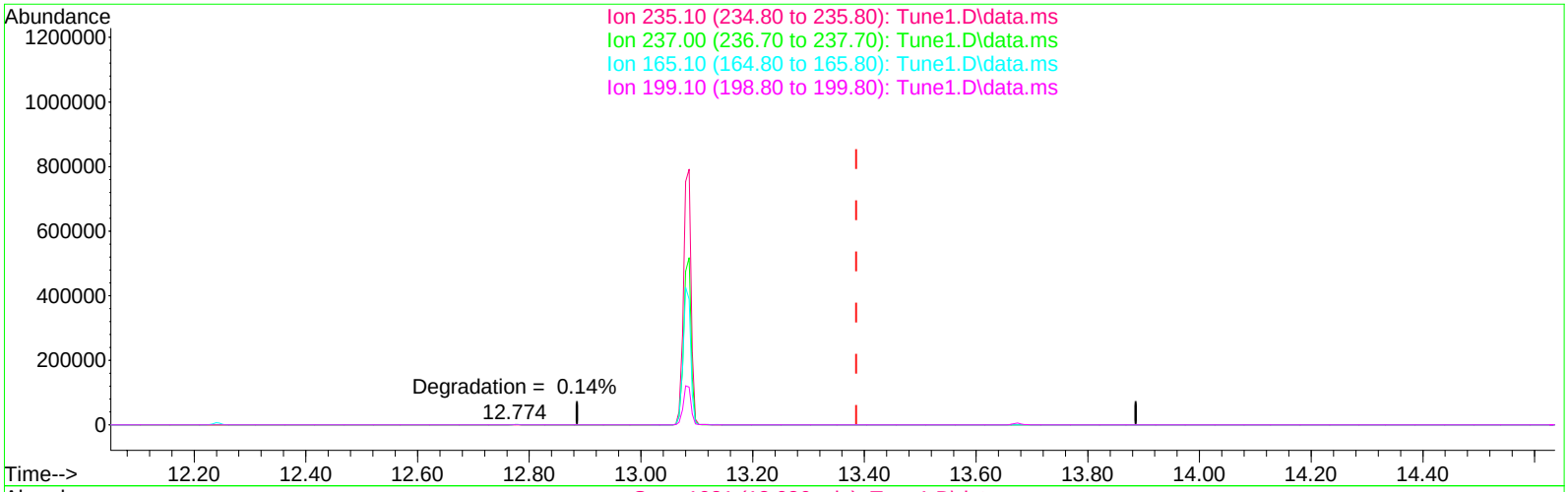
Spectrum Information: Average of 11.274 to 11.286 min.

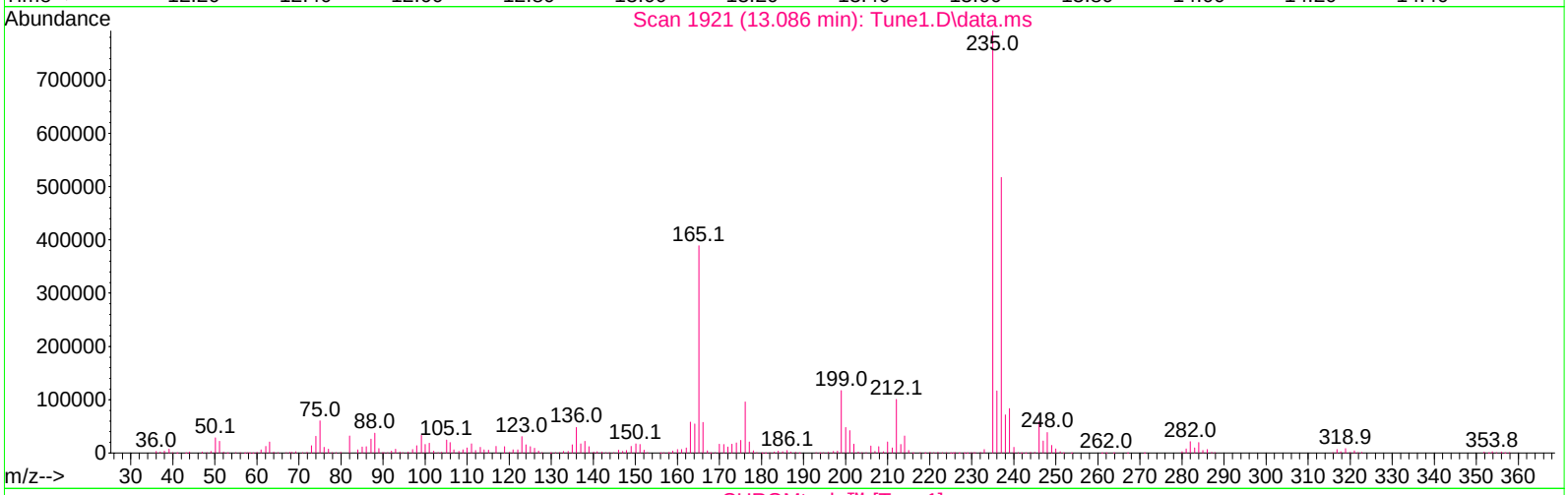
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.7	112760	PASS
68	69	0.00	2	1.6	1925	PASS
69	69	100	100	100.0	121213	PASS
70	69	0.00	2	0.5	616	PASS
127	198	10	80	52.7	149675	PASS
197	198	0.00	2	0.2	633	PASS
198	198	100	100	100.0	283861	PASS
199	198	5	9	6.8	19178	PASS
275	198	10	60	24.2	68664	PASS
365	198	1	100	3.0	8390	PASS
441	442	0.01	24	16.4	34864	PASS
442	198	50	100	74.7	212125	PASS
443	442	15	24	19.1	40595	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune1.D
Acq On : 2 Sep 2023 11:50 am
Operator : SV106:ljg
Sample : Tune1
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 03 14:45:04 2023
Quant Method : I:\8270\SV106\230902lviical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 23 13:06:27 2023
Response via : Initial Calibration





CHROMtools™ [Tune1]

(6) DDT (T)

13.086min (-0.300) 122.15

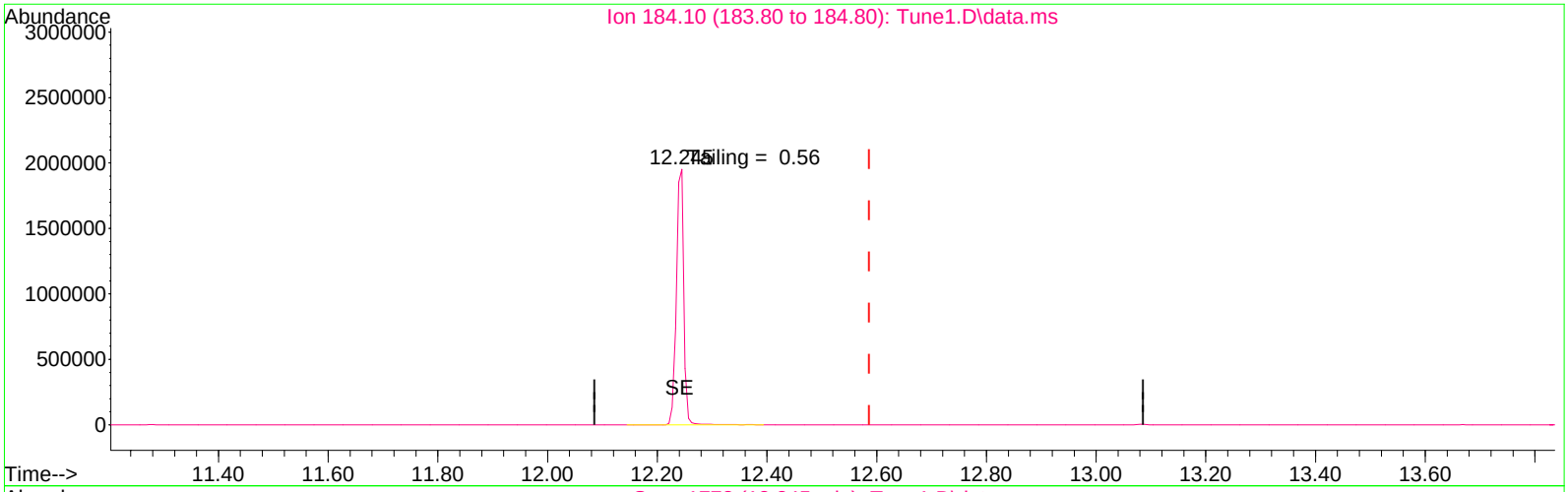
response 744589

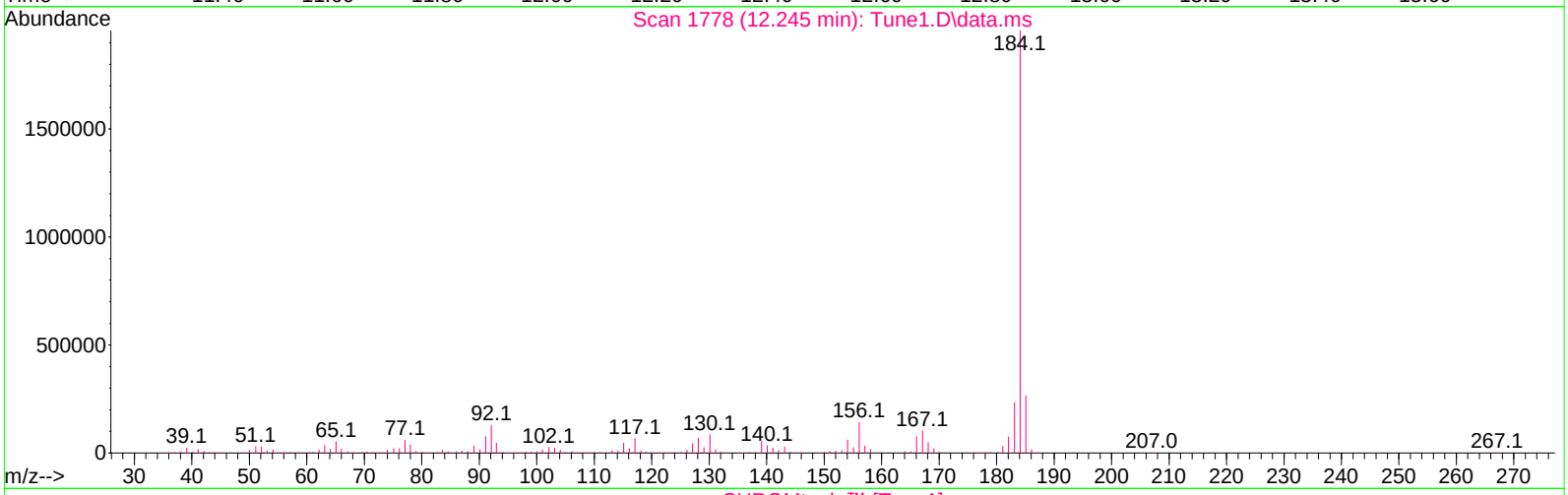
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.00	63.88
165.10	54.80	53.07
199.10	16.50	15.68

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune1.D
Acq On : 2 Sep 2023 11:50 am
Operator : SV106:ljg
Sample : Tune1
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 03 14:45:04 2023
Quant Method : I:\8270\SV106\230902lviical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 23 13:06:27 2023
Response via : Initial Calibration





CHROMtools™ [Tune1]

(3) Benzidine (T)

12.245min (-0.341) 181.43

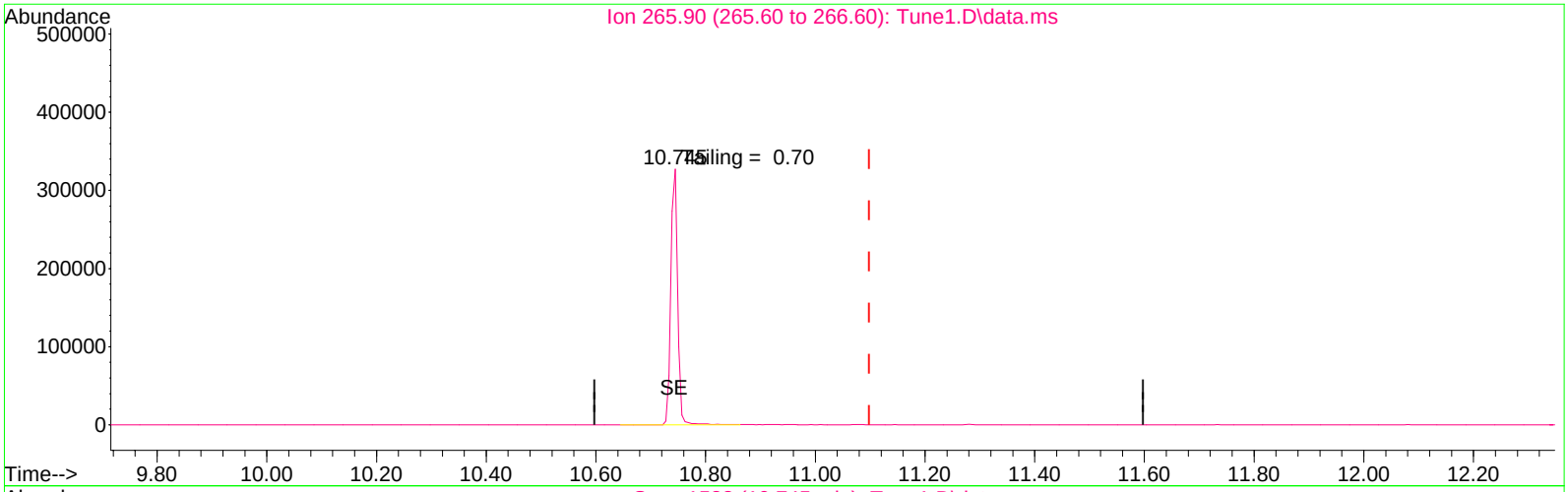
response 1846923

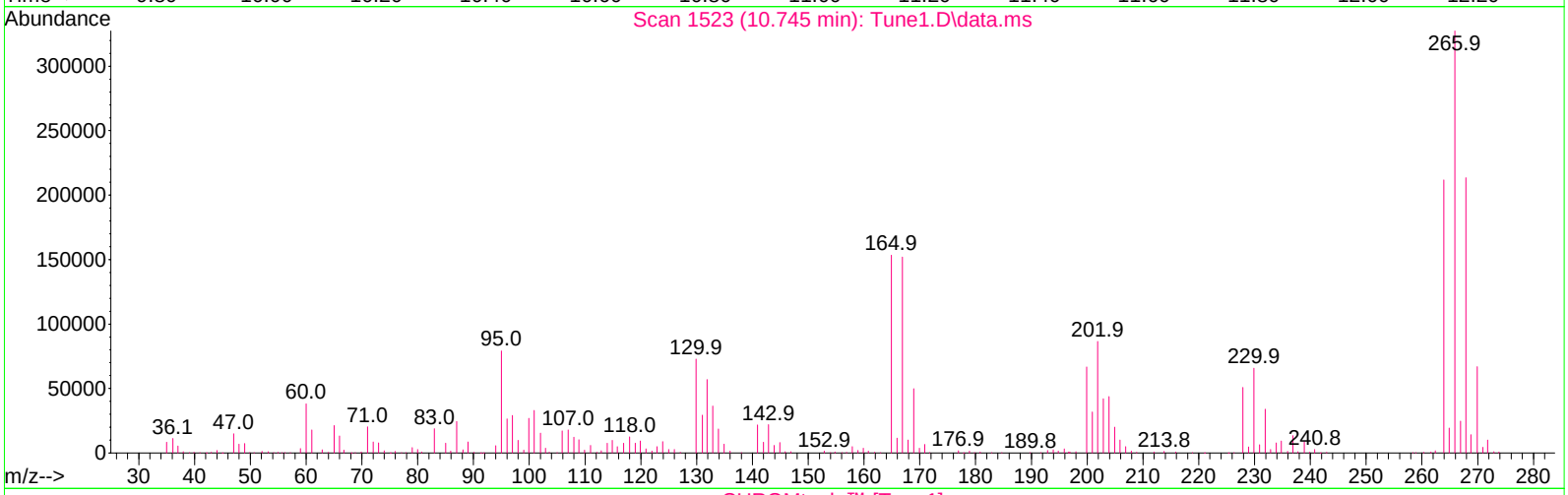
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune1.D
Acq On : 2 Sep 2023 11:50 am
Operator : SV106:ljg
Sample : Tune1
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 03 14:45:04 2023
Quant Method : I:\8270\SV106\230902lviical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 23 13:06:27 2023
Response via : Initial Calibration





CHROMtools™ [Tune1]

(1) Pentachlorophenol (T)

10.745min (-0.353) 133.78

response 280989

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL10.D
Acq On : 2 Sep 2023 12:13 pm
Operator : SV106:ljg
Sample : IL1,32,,ABNL50 Lot# 10162
Misc : WG1823680,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 11:14:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:02 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.281	152	68839	4.000 ug/ml	0.00
Standard Area 1 = 43113			Recovery = 159.67%		
34) IS1_Naphthalene-d8	7.722	136	262268	4.000 ug/ml	0.00
Standard Area 1 = 167432			Recovery = 156.64%		
62) IS1_Acenaphthene-d10	9.480	164	148566	4.000 ug/ml	0.00
Standard Area 1 = 93119			Recovery = 159.54%		
87) IS1_Phenanthrene-d10	10.910	188	285170	4.000 ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 158.84%		
103) IS1_Chrysene-d12	13.533	240	273026	4.000 ug/ml	0.01
Standard Area 1 = 164850			Recovery = 165.62%		
112) IS1_Perylene-d12	14.980	264	267180	4.000 ug/ml	0.00
Standard Area 1 = 183060			Recovery = 145.95%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.245	112	990128	51.573 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1031.46%#		
7) Phenol-d6	5.928	99	1301506	52.624 ug/ml	0.02
Spiked Amount 5.000	Range 15 - 110		Recovery = 1052.48%#		
19) Nitrobenzene-d5	6.951	82	1210482	53.980 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2159.20%#		
45) 2-Fluorobiphenyl	8.845	172	2560644	51.146 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2045.84%#		
78) 2,4,6-Tribromophenol	10.251	330	399615	58.623 ug/ml	0.01
Spiked Amount 5.000	Range 15 - 110		Recovery = 1172.46%#		
95) 4-Terphenyl-d14	12.492	244	3367848	53.845 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2153.80%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.922	74	603921	51.811 ug/ml#	66
3) Pyridine	1.957	79	1005360	50.773 ug/ml#	64
5) Aniline	5.863	93	1708073	52.427 ug/ml	96
6) 2-Chlorophenol	6.016	128	1146669	52.294 ug/ml	92
8) Phenol	5.945	94	1358986	51.918 ug/ml	97
9) Bis(2-chloroethyl)ether	6.004	93	1073071	51.035 ug/ml#	84
10) 1,3-Dichlorobenzene	6.198	146	1263232	50.244 ug/ml	99
11) 1,4-Dichlorobenzene	6.298	146	1287924	49.790 ug/ml	100
12) 1,2-Dichlorobenzene	6.481	146	1239785	50.336 ug/ml	99
13) Benzyl alcohol	6.504	79	1019693	55.191 ug/ml	96
14) Bis(2-chloroisopropyl)...	6.687	45	1536644	49.619 ug/ml#	47

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL10.D
Acq On : 2 Sep 2023 12:13 pm
Operator : SV106:ljg
Sample : IL1,32,,ABNL50 Lot# 10162
Misc : WG1823680,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 11:14:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:02 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.681	108	1045292	53.388	ug/ml	99
16) Hexachloroethane	6.875	117	516337	51.203	ug/ml#	79
17) n-Nitrosodi-n-propylamine	6.839	70	841242	52.943	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.875	108	1126431	54.845	ug/ml	100
20) Nitrobenzene	6.975	77	1201622	53.928	ug/ml	99
21) Isophorone	7.263	82	2289281	53.684	ug/ml	94
22) 2-Nitrophenol	7.328	139	534264	59.953	ug/ml#	92
23) 2,4-Dimethylphenol	7.439	107	1139601	51.698	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.534	93	1394799	52.208	ug/ml#	98
25) 2,4-Dichlorophenol	7.598	162	1025952	55.423	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.675	180	1091335	51.348	ug/ml	99
35) Naphthalene	7.739	128	3457795	52.299	ug/ml	100
36) Benzoic Acid	7.651	105	895566	51.199	ug/ml	99
37) 4-Chloroaniline	7.828	65	453951	52.439	ug/ml	87
38) Hexachlorobutadiene	7.910	225	664388	49.278	ug/ml	99
39) p-Chloro-m-cresol	8.363	107	1081340	56.580	ug/ml	93
40) 2-Methylnaphthalene	8.457	142	2207672	52.446	ug/ml	96
41) 1-Methylnaphthalene	8.551	115	823747	52.181	ug/ml	84
42) Hexachlorocyclopentadiene	8.633	237	767643	53.394	ug/ml	99
43) 2,4,6-Trichlorophenol	8.757	196	792184	57.925	ug/ml	97
44) 2,4,5-Trichlorophenol	8.786	196	789186	53.650	ug/ml	99
46) 2-Chloronaphthalene	8.939	162	2252799	51.350	ug/ml	99
47) 2-Nitroaniline	9.057	138	682887	51.590	ug/ml	92
48) 1,4-Dinitrobenzene	9.192	168	314761	52.007	ug/ml	87
49) 1,3-Dinitrobenzene	9.269	168	365590	51.534	ug/ml#	1
50) Dimethyl phthalate	9.275	163	2691227	52.128	ug/ml#	98
51) Acenaphthylene	9.339	152	3738373	52.943	ug/ml	99
52) 2,6-Dinitrotoluene	9.310	165	546122	51.245	ug/ml#	87
53) 1,2-Dinitrobenzene	9.357	168	228450	54.994	ug/ml#	1
63) 3-Nitroaniline	9.469	138	615589	57.925	ug/ml	98
64) Acenaphthene	9.516	154	2162049	51.489	ug/ml	94
65) 2,4-Dinitrophenol	9.563	184	306118	52.013	ug/ml	94
66) Dibenzofuran	9.686	168	3227444	51.411	ug/ml#	72
67) 2,4-Dinitrotoluene	9.698	165	764169	51.892	ug/ml	98
68) 4-Nitrophenol	9.663	65	574258	52.392	ug/ml#	28
69) 2,3,5,6-Tetrachlorophenol	9.775	232	681155	56.436	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.816	232	674873	53.886	ug/ml	97
71) Diethyl phthalate	9.963	149	2763567	52.586	ug/ml	99
72) Fluorene	10.016	166	2577636	51.966	ug/ml	96
73) 4-Chlorophenyl phenyl ...	10.039	204	1199217	50.665	ug/ml	98

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL10.D
Acq On : 2 Sep 2023 12:13 pm
Operator : SV106:ljg
Sample : IL1,32,,ABNL50 Lot# 10162
Misc : WG1823680,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 11:14:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:02 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	10.069	138	611018	56.961	ug/ml#	86
75) 4,6-Dinitro-o-cresol	10.092	198	410076	52.494	ug/ml#	77
76) NDPA/DPA	10.157	169	2171776	52.037	ug/ml	98
77) Azobenzene	10.192	77	2550386	52.052	ug/ml	98
79) 4-Bromophenyl phenyl e...	10.504	248	703040	51.038	ug/ml	93
80) Hexachlorobenzene	10.557	284	816721	50.938	ug/ml#	88
81) Pentachlorophenol	10.745	266	541382	52.276	ug/ml	99
88) Phenanthrene	10.939	178	4029150	51.880	ug/ml	99
89) Anthracene	10.986	178	4080478	52.789	ug/ml	100
90) Carbazole	11.157	167	3771487	53.395	ug/ml	100
91) Di-n-butylphthalate	11.551	149	5101143	56.394	ug/ml	99
92) Fluoranthene	12.086	202	4470293	53.842	ug/ml#	93
93) Benzidine	12.245	184	2964861	54.041	ug/ml#	95
94) Pyrene	12.298	202	4688025	53.330	ug/ml	99
96) Butyl benzyl phthalate	13.016	149	2284615	59.188	ug/ml	92
104) Benzo(a)anthracene	13.521	228	4701148	51.960	ug/ml	99
105) 3,3'-Dichlorobenzidine	13.527	252	1793030	55.688	ug/ml#	97
106) Chrysene	13.563	228	4148905	49.392	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	13.651	149	3423593	56.443	ug/ml#	91
108) Di-n-octylphthalate	14.327	149	5924592	57.898	ug/ml#	72
109) Benzo(b)fluoranthene	14.621	252	4280897	49.528	ug/ml#	95
110) Benzo(k)fluoranthene	14.651	252	4247583M3	51.267	ug/ml	
111) Benzo(a)pyrene	14.933	252	3780405	51.122	ug/ml#	94
113) Indeno(1,2,3-cd)pyrene	15.951	276	3340791M6	53.517	ug/mL	
114) Dibenzo(a,h)anthracene	15.974	278	3584378	53.691	ug/ml#	90
115) Benzo(ghi)perylene	16.186	276	3154914	47.640	ug/ml#	88

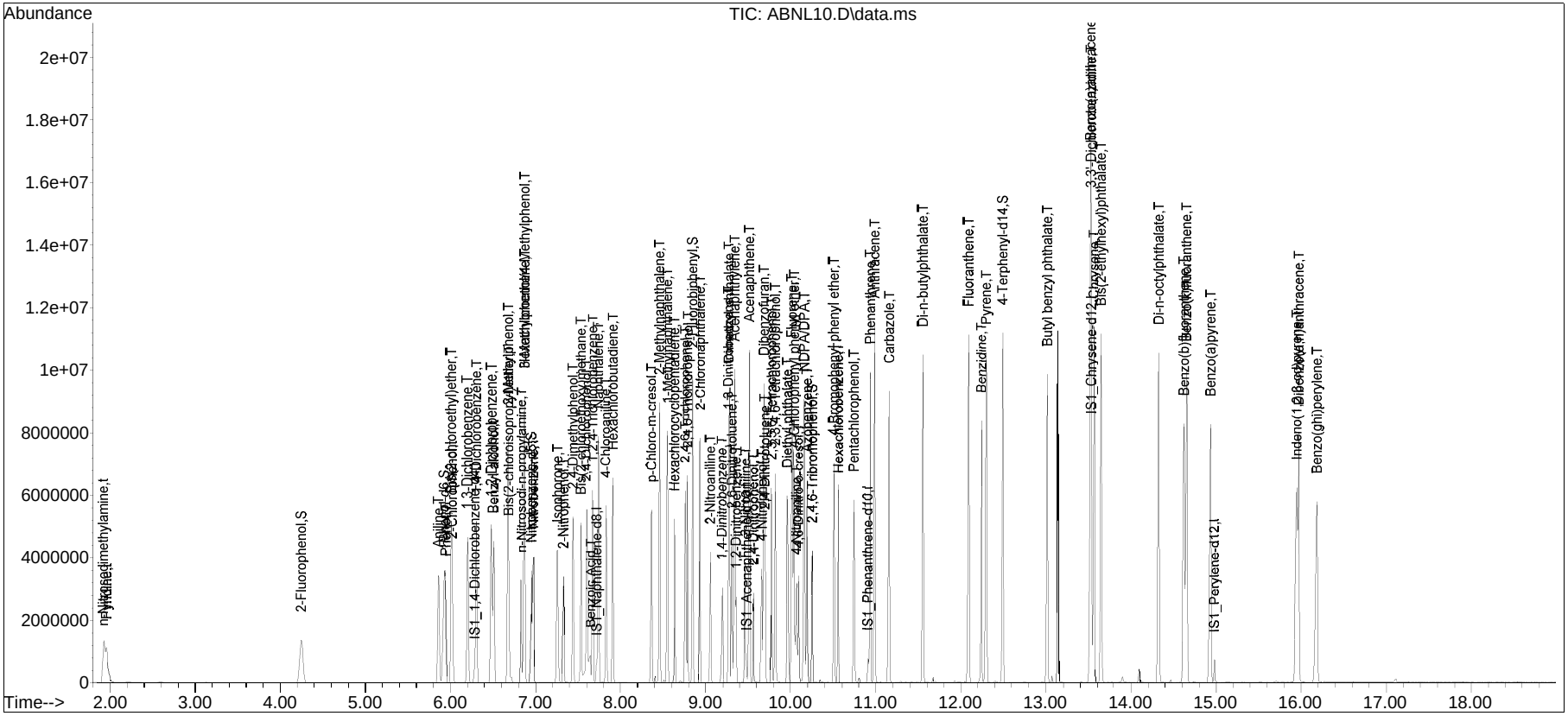
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL10.D
Acq On : 2 Sep 2023 12:13 pm
Operator : SV106:ljg
Sample : IL1,32,,ABNL50 Lot# 10162
Misc : WG1823680,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 11:14:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:02 2023
Response via : Initial Calibration

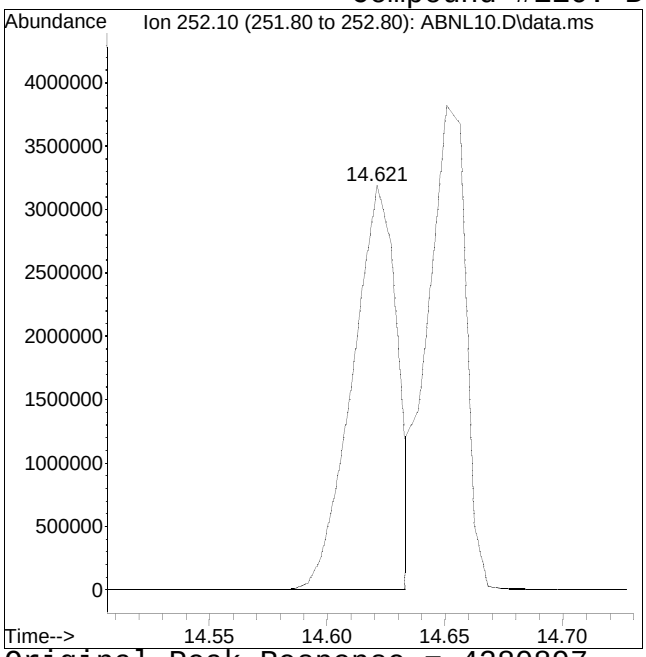
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•

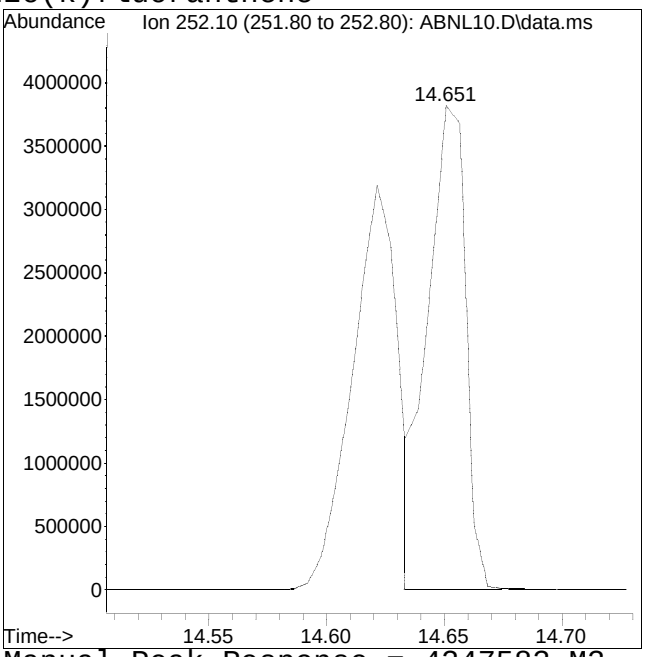


Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL10.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 12:13 pm Instrument : SV 106
Sample : IL1,32,,ABNL50 Lot# 10162 Quant Date : 9/5/2023 11:14 am

Compound #110: Benzo(k)fluoranthene



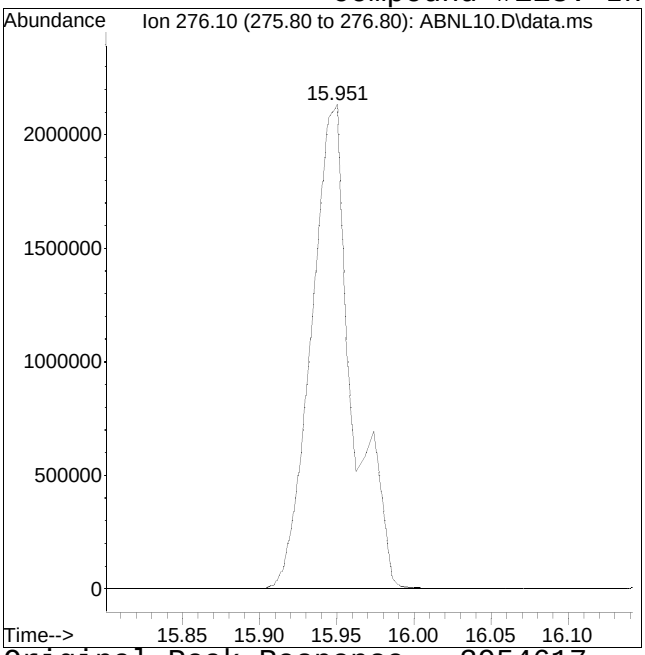


Original Peak Response = 4280897 Manual Peak Response = 4247583 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

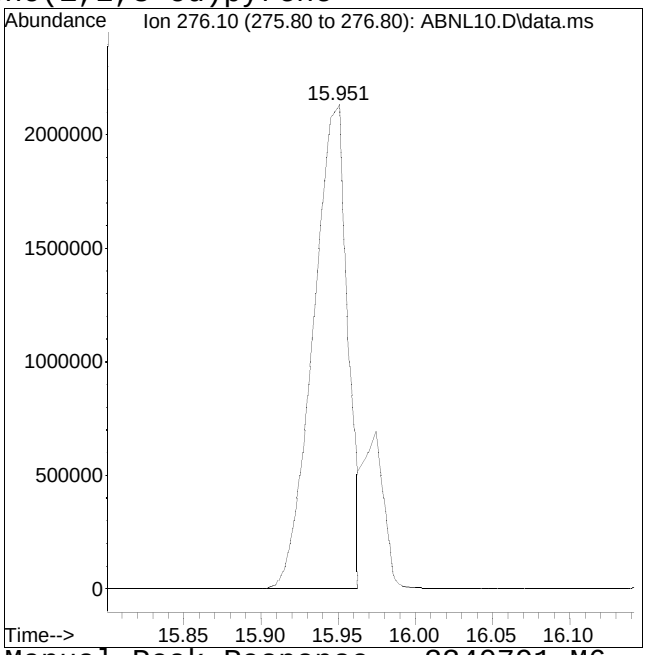
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL10.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 12:13 pm Instrument : SV 106
Sample : IL1,32,,ABNL50 Lot# 10162 Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3954617



Manual Peak Response = 3340791 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL9.D
Acq On : 2 Sep 2023 12:37 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL35 Lot# 10163
Misc : WG1823680,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 11:15:21 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:14 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.281	152	44310	4.000	ug/ml	0.00
Standard Area 1 = 43113			Recovery = 102.78%			
34) IS1_Naphthalene-d8	7.716	136	165823	4.000	ug/ml	# 0.00
Standard Area 1 = 167432			Recovery = 99.04%			
62) IS1_Acenaphthene-d10	9.475	164	94213	4.000	ug/ml	0.00
Standard Area 1 = 93119			Recovery = 101.17%			
87) IS1_Phenanthrene-d10	10.910	188	176438	4.000	ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 98.27%			
103) IS1_Chrysene-d12	13.527	240	170931	4.000	ug/ml	0.00
Standard Area 1 = 164850			Recovery = 103.69%			
112) IS1_Perylene-d12	14.974	264	175453	4.000	ug/ml	0.00
Standard Area 1 = 183060			Recovery = 95.84%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.246	112	444458	35.966	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 719.32%#			
7) Phenol-d6	5.916	99	568211	35.693	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 713.86%#			
19) Nitrobenzene-d5	6.945	82	521667	36.141	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1445.64%#			
45) 2-Fluorobiphenyl	8.845	172	1085958	34.306	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1372.24%#			
78) 2,4,6-Tribromophenol	10.245	330	165921	38.383	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 767.66%#			
95) 4-Terphenyl-d14	12.486	244	1397533	36.113	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1444.52%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.922	74	262053	34.927	ug/ml#	69
3) Pyridine	1.952	79	457209	35.872	ug/ml#	66
5) Aniline	5.863	93	737916	35.188	ug/ml	96
6) 2-Chlorophenol	6.010	128	504651	35.755	ug/ml	92
8) Phenol	5.934	94	590305	35.036	ug/ml	98
9) Bis(2-chloroethyl)ether	5.998	93	467675	34.555	ug/ml#	83
10) 1,3-Dichlorobenzene	6.198	146	562485	34.757	ug/ml	99
11) 1,4-Dichlorobenzene	6.298	146	571566	34.328	ug/ml	99
12) 1,2-Dichlorobenzene	6.481	146	543876	34.305	ug/ml	99
13) Benzyl alcohol	6.498	79	433112	36.419	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.681	45	676298	33.927	ug/ml#	48

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL9.D
Acq On : 2 Sep 2023 12:37 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL35 Lot# 10163
Misc : WG1823680,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 11:15:21 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:14 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	452418	35.899	ug/ml	100
16) Hexachloroethane	6.875	117	226635	34.916	ug/ml#	78
17) n-Nitrosodi-n-propylamine	6.828	70	358459	35.048	ug/ml	93
18) 3-Methylphenol/4-Methy...	6.869	108	475622	35.977	ug/ml	99
20) Nitrobenzene	6.969	77	523518	36.502	ug/ml	99
21) Isophorone	7.251	82	965958	35.191	ug/ml	95
22) 2-Nitrophenol	7.328	139	225197	39.260	ug/ml#	92
23) 2,4-Dimethylphenol	7.440	107	507914	35.797	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.528	93	591617	34.403	ug/ml	98
25) 2,4-Dichlorophenol	7.592	162	427993	35.920	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.675	180	469966	34.353	ug/ml	99
35) Naphthalene	7.739	128	1478375	35.366	ug/ml	100
36) Benzoic Acid	7.598	105	369659	33.986	ug/ml	97
37) 4-Chloroaniline	7.828	65	193316	35.319	ug/ml	87
38) Hexachlorobutadiene	7.910	225	289211	33.927	ug/ml	99
39) p-Chloro-m-cresol	8.357	107	452756	37.469	ug/ml	95
40) 2-Methylnaphthalene	8.457	142	929772	34.934	ug/ml	95
41) 1-Methylnaphthalene	8.551	115	348693	34.935	ug/ml	84
42) Hexachlorocyclopentadiene	8.634	237	337235	37.099	ug/ml	99
43) 2,4,6-Trichlorophenol	8.757	196	324217	37.495	ug/ml	98
44) 2,4,5-Trichlorophenol	8.786	196	347593	37.374	ug/ml	98
46) 2-Chloronaphthalene	8.934	162	955203	34.436	ug/ml	99
47) 2-Nitroaniline	9.051	138	286465	34.381	ug/ml	93
48) 1,4-Dinitrobenzene	9.186	168	129466	34.144	ug/ml	88
49) 1,3-Dinitrobenzene	9.263	168	154922	34.846	ug/ml#	1
50) Dimethyl phthalate	9.263	163	1130294	34.627	ug/ml#	98
51) Acenaphthylene	9.334	152	1572037	35.212	ug/ml	100
52) 2,6-Dinitrotoluene	9.304	165	230216	34.295	ug/ml#	86
53) 1,2-Dinitrobenzene	9.345	168	97015	36.937	ug/ml#	1
63) 3-Nitroaniline	9.457	138	258423	38.346	ug/ml	98
64) Acenaphthene	9.510	154	902858	33.906	ug/ml	92
65) 2,4-Dinitrophenol	9.557	184	127640	34.584	ug/ml	94
66) Dibenzofuran	9.681	168	1375479	34.551	ug/ml	100
67) 2,4-Dinitrotoluene	9.692	165	320470	34.478	ug/ml	97
68) 4-Nitrophenol	9.651	65	234839	33.942	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	9.769	232	287702	37.589	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.816	232	283683	35.719	ug/ml	97
71) Diethyl phthalate	9.957	149	1172963	35.196	ug/ml	99
72) Fluorene	10.010	166	1095787	34.836	ug/ml	97
73) 4-Chlorophenyl phenyl ...	10.033	204	502474	33.476	ug/ml	97

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL9.D
Acq On : 2 Sep 2023 12:37 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL35 Lot# 10163
Misc : WG1823680,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 11:15:21 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:14 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	10.051	138	260303	38.266	ug/ml#	85
75) 4,6-Dinitro-o-cresol	10.081	198	167531	34.234	ug/ml#	71
76) NDPA/DPA	10.151	169	924194	34.919	ug/ml	98
77) Azobenzene	10.186	77	1071348	34.480	ug/ml	98
79) 4-Bromophenyl phenyl e...	10.504	248	298584	34.181	ug/ml	93
80) Hexachlorobenzene	10.551	284	341847	33.621	ug/ml#	87
81) Pentachlorophenol	10.745	266	221765	33.927	ug/ml	99
88) Phenanthrene	10.933	178	1678854	34.939	ug/ml	100
89) Anthracene	10.980	178	1709466	35.744	ug/ml	100
90) Carbazole	11.151	167	1619102	37.049	ug/ml	100
91) Di-n-butylphthalate	11.545	149	2136624	38.178	ug/ml	99
92) Fluoranthene	12.080	202	1881345	36.624	ug/ml#	93
93) Benzidine	12.239	184	1341131	39.509	ug/ml#	95
94) Pyrene	12.292	202	1963796	36.107	ug/ml	100
96) Butyl benzyl phthalate	13.010	149	973935	40.782	ug/ml	91
104) Benzo(a)anthracene	13.516	228	1991361	35.156	ug/ml	100
105) 3,3'-Dichlorobenzidine	13.521	252	772420	38.319	ug/ml#	98
106) Chrysene	13.551	228	1798650	34.202	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	13.645	149	1454534	38.303	ug/ml#	92
108) Di-n-octylphthalate	14.321	149	2568823	40.098	ug/ml#	72
109) Benzo(b)fluoranthene	14.616	252	1950128	36.038	ug/ml#	95
110) Benzo(k)fluoranthene	14.645	252	1773297	34.187	ug/ml#	94
111) Benzo(a)pyrene	14.921	252	1668845	36.047	ug/ml#	94
113) Indeno(1,2,3-cd)pyrene	15.939	276	1624846M6	39.637	ug/mL	
114) Dibenzo(a,h)anthracene	15.962	278	1673407	38.171	ug/ml#	91
115) Benzo(ghi)perylene	16.174	276	1599602	36.782	ug/ml#	88

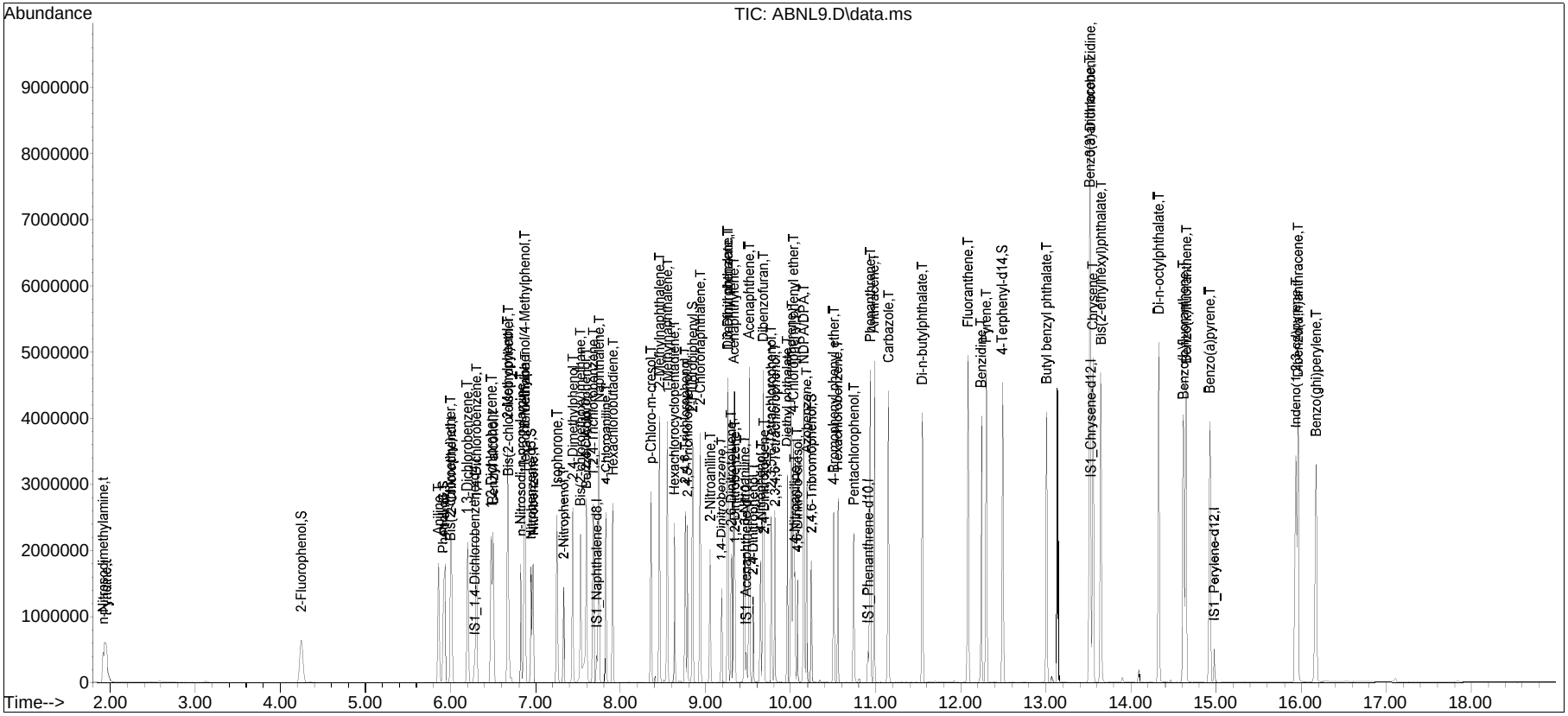
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL9.D
Acq On : 2 Sep 2023 12:37 pm
Operator : SV106:ljg
Sample : IL2,32,,ABNL35 Lot# 10163
Misc : WG1823680,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 11:15:21 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:14 2023
Response via : Initial Calibration

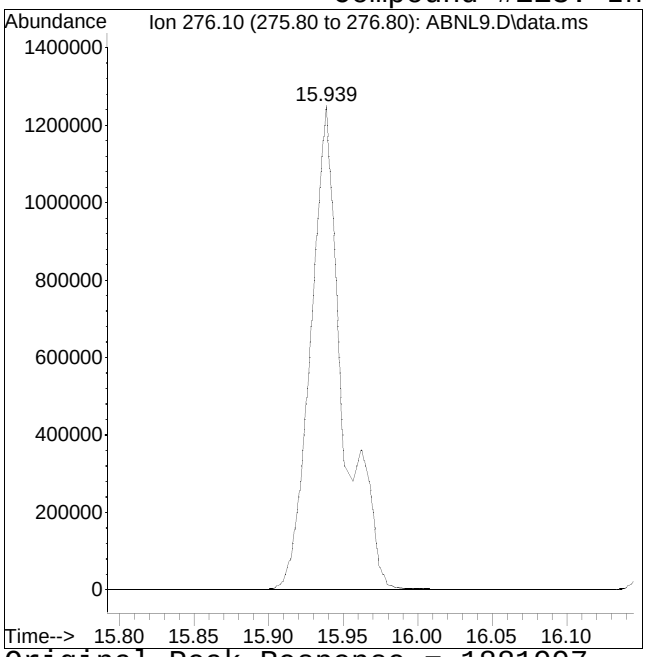
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•



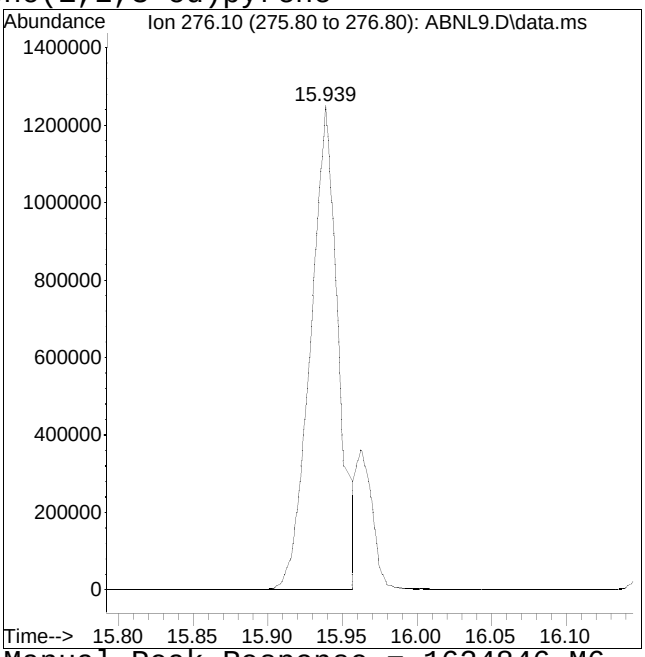
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL9.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 12:37 pm Instrument : SV 106
Sample : IL2,32,,ABNL35 Lot# 10163 Quant Date : 9/5/2023 11:15 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1881997



Manual Peak Response = 1624846 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL8.D
Acq On : 2 Sep 2023 1:01 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL15 Lot# 10164
Misc : WG1823680,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 11:15:12 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:05 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.281	152	39387	4.000	ug/ml	# 0.00
Standard Area 1 = 43113			Recovery = 91.36%			
34) IS1_Naphthalene-d8	7.716	136	148209	4.000	ug/ml	0.00
Standard Area 1 = 167432			Recovery = 88.52%			
62) IS1_Acenaphthene-d10	9.475	164	84980	4.000	ug/ml	0.00
Standard Area 1 = 93119			Recovery = 91.26%			
87) IS1_Phenanthrene-d10	10.904	188	162165	4.000	ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 90.33%			
103) IS1_Chrysene-d12	13.521	240	149815	4.000	ug/ml	0.00
Standard Area 1 = 164850			Recovery = 90.88%			
112) IS1_Perylene-d12	14.968	264	161040	4.000	ug/ml	0.00
Standard Area 1 = 183060			Recovery = 87.97%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.251	112	174595	15.894	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 317.88%#			
7) Phenol-d6	5.910	99	215466	15.226	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 304.52%#			
19) Nitrobenzene-d5	6.945	82	199124	15.520	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 620.80%#			
45) 2-Fluorobiphenyl	8.839	172	428605	15.149	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 605.96%#			
78) 2,4,6-Tribromophenol	10.245	330	63089	16.180	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 323.60%#			
95) 4-Terphenyl-d14	12.486	244	537088	15.100	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 604.00%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.922	74	101211	15.176	ug/ml#	68
3) Pyridine	1.952	79	182078	16.071	ug/ml#	65
5) Aniline	5.863	93	283242	15.195	ug/ml	96
6) 2-Chlorophenol	6.010	128	191941	15.299	ug/ml	93
8) Phenol	5.928	94	229092	15.297	ug/ml	96
9) Bis(2-chloroethyl)ether	5.998	93	180311	14.988	ug/ml#	83
10) 1,3-Dichlorobenzene	6.198	146	217035	15.087	ug/ml	99
11) 1,4-Dichlorobenzene	6.298	146	220147	14.875	ug/ml	100
12) 1,2-Dichlorobenzene	6.481	146	210026	14.903	ug/ml	99
13) Benzyl alcohol	6.498	79	165647	15.670	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.681	45	268862	15.173	ug/ml#	51

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL8.D
Acq On : 2 Sep 2023 1:01 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL15 Lot# 10164
Misc : WG1823680,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 11:15:12 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:05 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	174868	15.610	ug/ml	98
16) Hexachloroethane	6.875	117	87032	15.084	ug/ml#	78
17) n-Nitrosodi-n-propylamine	6.822	70	136228	14.984	ug/ml	93
18) 3-Methylphenol/4-Methy...	6.863	108	182861	15.561	ug/ml	99
20) Nitrobenzene	6.963	77	200792	15.750	ug/ml	97
21) Isophorone	7.251	82	373793	15.320	ug/ml	95
22) 2-Nitrophenol	7.328	139	84641	16.600	ug/ml#	91
23) 2,4-Dimethylphenol	7.434	107	196134	15.551	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.528	93	233863	15.299	ug/ml	99
25) 2,4-Dichlorophenol	7.592	162	168513	15.910	ug/ml	98
26) 1,2,4-Trichlorobenzene	7.675	180	183763	15.111	ug/ml	98
35) Naphthalene	7.739	128	570099	15.259	ug/ml	99
36) Benzoic Acid	7.557	105	136543	14.994	ug/ml	98
37) 4-Chloroaniline	7.822	65	75700	15.474	ug/ml	88
38) Hexachlorobutadiene	7.910	225	114489	15.027	ug/ml	98
39) p-Chloro-m-cresol	8.357	107	174800	16.185	ug/ml	94
40) 2-Methylnaphthalene	8.457	142	363087	15.264	ug/ml	95
41) 1-Methylnaphthalene	8.551	115	138136	15.484	ug/ml	83
42) Hexachlorocyclopentadiene	8.634	237	127554	15.700	ug/ml	98
43) 2,4,6-Trichlorophenol	8.757	196	123184	15.939	ug/ml	99
44) 2,4,5-Trichlorophenol	8.781	196	134180	16.142	ug/ml	97
46) 2-Chloronaphthalene	8.934	162	374768	15.117	ug/ml	99
47) 2-Nitroaniline	9.051	138	108579	14.842	ug/ml	93
48) 1,4-Dinitrobenzene	9.181	168	47498	14.540	ug/ml	90
49) 1,3-Dinitrobenzene	9.257	168	54984	14.397	ug/ml#	1
50) Dimethyl phthalate	9.257	163	450072	15.427	ug/ml#	98
51) Acenaphthylene	9.333	152	621329	15.571	ug/ml	99
52) 2,6-Dinitrotoluene	9.298	165	89361	15.112	ug/ml#	85
53) 1,2-Dinitrobenzene	9.339	168	38566	16.429	ug/ml#	1
63) 3-Nitroaniline	9.451	138	99446	16.359	ug/ml	97
64) Acenaphthene	9.504	154	352685	14.684	ug/ml	93
65) 2,4-Dinitrophenol	9.551	184	44061	13.929	ug/ml	96
66) Dibenzofuran	9.681	168	532862	14.839	ug/ml	98
67) 2,4-Dinitrotoluene	9.686	165	118257	14.385	ug/ml	95
68) 4-Nitrophenol	9.645	65	88187	14.388	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	9.769	232	110628	16.024	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.810	232	110706	15.454	ug/ml	97
71) Diethyl phthalate	9.951	149	444677	14.793	ug/ml	99
72) Fluorene	10.010	166	428382	15.098	ug/ml	97
73) 4-Chlorophenyl phenyl ...	10.033	204	198916	14.692	ug/ml	99

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL8.D
Acq On : 2 Sep 2023 1:01 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL15 Lot# 10164
Misc : WG1823680,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 11:15:12 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:05 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	10.039	138	96505	15.728	ug/ml#	84
75) 4,6-Dinitro-o-cresol	10.075	198	58329	13.932	ug/ml#	72
76) NDPA/DPA	10.151	169	361547	15.145	ug/ml	98
77) Azobenzene	10.180	77	420644	15.009	ug/ml	98
79) 4-Bromophenyl phenyl e...	10.498	248	116954	14.843	ug/ml	92
80) Hexachlorobenzene	10.545	284	132100	14.404	ug/ml#	88
81) Pentachlorophenol	10.739	266	83555	14.433	ug/ml	98
88) Phenanthrene	10.928	178	650045	14.719	ug/ml	99
89) Anthracene	10.980	178	655793	14.919	ug/ml	99
90) Carbazole	11.145	167	611710	15.229	ug/ml	100
91) Di-n-butylphthalate	11.545	149	800541	15.563	ug/ml	99
92) Fluoranthene	12.080	202	724443	15.344	ug/ml#	93
93) Benzidine	12.233	184	515181	16.513	ug/ml#	95
94) Pyrene	12.292	202	753957	15.083	ug/ml	100
96) Butyl benzyl phthalate	13.010	149	354416	16.147	ug/ml	90
104) Benzo(a)anthracene	13.510	228	742019	14.946	ug/ml	100
105) 3,3'-Dichlorobenzidine	13.516	252	284024	16.076	ug/ml#	98
106) Chrysene	13.551	228	679622	14.745	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	13.645	149	541988	16.284	ug/ml#	91
108) Di-n-octylphthalate	14.321	149	932898	16.614	ug/ml#	73
109) Benzo(b)fluoranthene	14.610	252	738969	15.581	ug/ml#	95
110) Benzo(k)fluoranthene	14.633	252	684561	15.058	ug/ml#	94
111) Benzo(a)pyrene	14.915	252	630908	15.548	ug/ml#	94
113) Indeno(1,2,3-cd)pyrene	15.927	276	591376M6	15.717	ug/mL	
114) Dibenzo(a,h)anthracene	15.957	278	642310	15.963	ug/ml#	91
115) Benzo(ghi)perylene	16.162	276	617081	15.460	ug/ml#	88

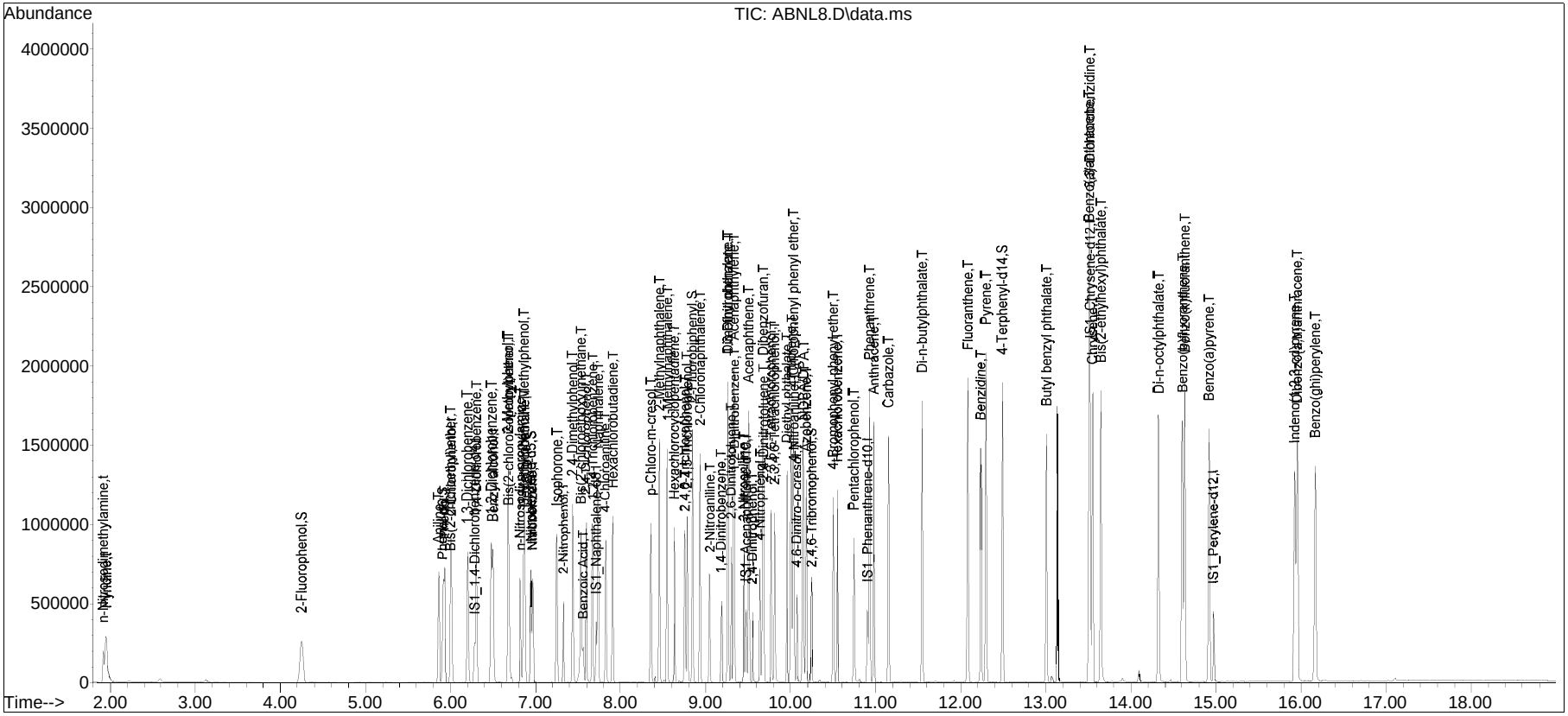
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL8.D
Acq On : 2 Sep 2023 1:01 pm
Operator : SV106:ljg
Sample : IL3,32,,ABNL15 Lot# 10164
Misc : WG1823680,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 11:15:12 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:05 2023
Response via : Initial Calibration

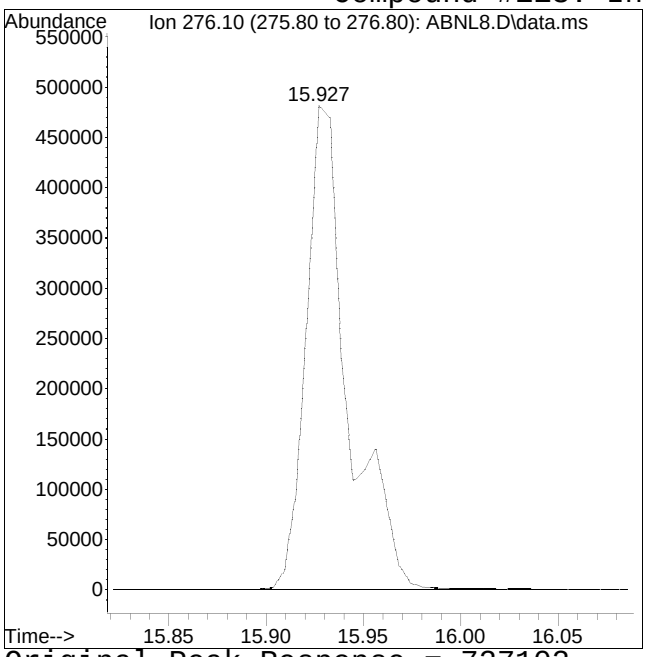
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•



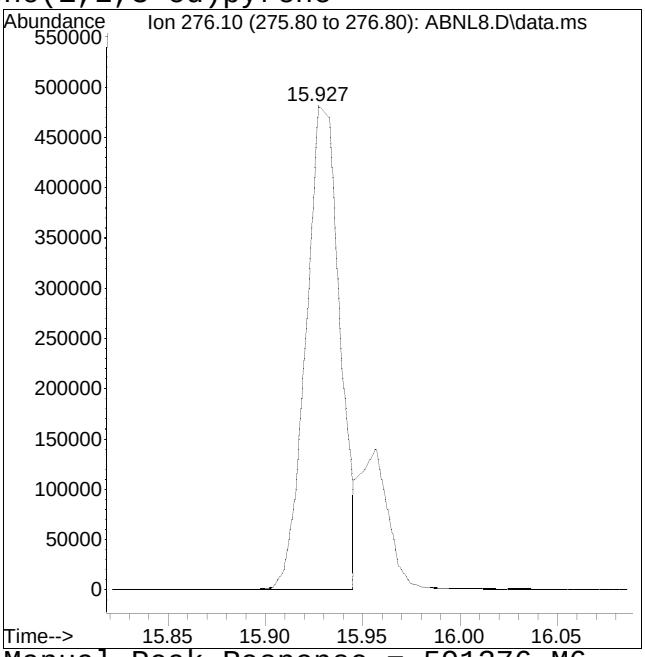
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL8.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 1:01 pm Instrument : SV 106
Sample : IL3,32,,ABNL15 Lot# 10164 Quant Date : 9/5/2023 11:15 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 727102



Manual Peak Response = 591376 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL7.D
Acq On : 2 Sep 2023 1:24 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 10165
Misc : WG1823680,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 11:15:03 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:56 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.281	152	41700	4.000	ug/ml	# 0.00
Standard Area 1 = 43113			Recovery = 96.72%			
34) IS1_Naphthalene-d8	7.716	136	161337	4.000	ug/ml	0.00
Standard Area 1 = 167432			Recovery = 96.36%			
62) IS1_Acenaphthene-d10	9.474	164	89903	4.000	ug/ml	0.00
Standard Area 1 = 93119			Recovery = 96.55%			
87) IS1_Phenanthrene-d10	10.904	188	174498	4.000	ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 97.19%			
103) IS1_Chrysene-d12	13.521	240	162336	4.000	ug/ml	0.00
Standard Area 1 = 164850			Recovery = 98.47%			
112) IS1_Perylene-d12	14.974	264	174651	4.000	ug/ml	0.00
Standard Area 1 = 183060			Recovery = 95.41%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.245	112	123162	10.590	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 211.80%#			
7) Phenol-d6	5.910	99	161769	10.798	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 215.96%#			
19) Nitrobenzene-d5	6.945	82	143925	10.595	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 423.80%#			
45) 2-Fluorobiphenyl	8.839	172	311557	10.116	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 404.64%#			
78) 2,4,6-Tribromophenol	10.245	330	44207	10.717	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 214.34%#			
95) 4-Terphenyl-d14	12.486	244	400865	10.474	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 418.96%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.922	74	74968	10.617	ug/ml#	67
3) Pyridine	1.951	79	128851	10.742	ug/ml#	63
5) Aniline	5.863	93	208544	10.567	ug/ml	97
6) 2-Chlorophenol	6.010	128	142959	10.763	ug/ml	91
8) Phenol	5.928	94	167078	10.537	ug/ml	97
9) Bis(2-chloroethyl)ether	6.004	93	132959	10.439	ug/ml#	82
10) 1,3-Dichlorobenzene	6.198	146	157458	10.339	ug/ml	99
11) 1,4-Dichlorobenzene	6.298	146	162727	10.385	ug/ml	99
12) 1,2-Dichlorobenzene	6.481	146	155990	10.455	ug/ml	99
13) Benzyl alcohol	6.498	79	121672	10.871	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.681	45	197828	10.545	ug/ml#	50

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL7.D
Acq On : 2 Sep 2023 1:24 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 10165
Misc : WG1823680,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 11:15:03 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:56 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	127300	10.733	ug/ml	99
16) Hexachloroethane	6.875	117	63885	10.458	ug/ml#	76
17) n-Nitrosodi-n-propylamine	6.822	70	102240	10.622	ug/ml	93
18) 3-Methylphenol/4-Methy...	6.863	108	134672	10.825	ug/ml	99
20) Nitrobenzene	6.963	77	145538	10.783	ug/ml	97
21) Isophorone	7.251	82	273843	10.601	ug/ml	95
22) 2-Nitrophenol	7.328	139	62103	11.505	ug/ml#	90
23) 2,4-Dimethylphenol	7.433	107	144296	10.806	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.528	93	169754	10.489	ug/ml	100
25) 2,4-Dichlorophenol	7.592	162	123592	11.022	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.675	180	134570	10.452	ug/ml	97
35) Naphthalene	7.739	128	418782	10.297	ug/ml	99
36) Benzoic Acid	7.545	105	92921	9.980	ug/ml	99
37) 4-Chloroaniline	7.822	65	57438	10.786	ug/ml	94
38) Hexachlorobutadiene	7.910	225	83134	10.023	ug/ml	99
39) p-Chloro-m-cresol	8.357	107	126763	10.782	ug/ml	96
40) 2-Methylnaphthalene	8.457	142	266409	10.288	ug/ml	95
41) 1-Methylnaphthalene	8.551	115	101148	10.416	ug/ml	84
42) Hexachlorocyclopentadiene	8.633	237	94250	10.657	ug/ml	97
43) 2,4,6-Trichlorophenol	8.757	196	91456	10.871	ug/ml	97
44) 2,4,5-Trichlorophenol	8.780	196	97811	10.809	ug/ml	98
46) 2-Chloronaphthalene	8.933	162	275685	10.215	ug/ml	100
47) 2-Nitroaniline	9.051	138	77457	9.883	ug/ml	92
48) 1,4-Dinitrobenzene	9.180	168	33349	9.695	ug/ml	89
49) 1,3-Dinitrobenzene	9.257	168	37868	9.450	ug/ml#	1
50) Dimethyl phthalate	9.257	163	325946	10.263	ug/ml#	98
51) Acenaphthylene	9.333	152	448549	10.326	ug/ml	99
52) 2,6-Dinitrotoluene	9.298	165	64069	10.085	ug/ml#	87
53) 1,2-Dinitrobenzene	9.339	168	27698	10.839	ug/ml#	1
63) 3-Nitroaniline	9.451	138	74243	11.545	ug/ml	100
64) Acenaphthene	9.504	154	260245	10.242	ug/ml	94
65) 2,4-Dinitrophenol	9.551	184	30743	9.569	ug/ml	96
66) Dibenzofuran	9.674	168	393373	10.355	ug/ml	98
67) 2,4-Dinitrotoluene	9.686	165	85374	9.967	ug/ml	94
68) 4-Nitrophenol	9.645	65	63553	9.941	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	9.769	232	80603	11.036	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.810	232	82879	10.936	ug/ml	99
71) Diethyl phthalate	9.951	149	327950	10.312	ug/ml	99
72) Fluorene	10.010	166	315894	10.524	ug/ml	95
73) 4-Chlorophenyl phenyl ...	10.033	204	144872	10.114	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL7.D
Acq On : 2 Sep 2023 1:24 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 10165
Misc : WG1823680,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 11:15:03 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:56 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	4-Nitroaniline	10.039	138	68144	10.498	ug/ml	#	86
75)	4,6-Dinitro-o-cresol	10.074	198	40596	9.566	ug/ml	#	71
76)	NDPA/DPA	10.151	169	265685	10.520	ug/ml		98
77)	Azobenzene	10.180	77	303000	10.219	ug/ml		96
79)	4-Bromophenyl phenyl e...	10.498	248	84255	10.108	ug/ml		92
80)	Hexachlorobenzene	10.545	284	96977	9.995	ug/ml	#	88
81)	Pentachlorophenol	10.739	266	60646	10.043	ug/ml		99
88)	Phenanthrene	10.927	178	478235	10.063	ug/ml		99
89)	Anthracene	10.980	178	486527	10.286	ug/ml		99
90)	Carbazole	11.145	167	446072	10.321	ug/ml		99
91)	Di-n-butylphthalate	11.545	149	591522	10.687	ug/ml		99
92)	Fluoranthene	12.080	202	529102	10.415	ug/ml	#	93
93)	Benzidine	12.233	184	370696	11.042	ug/ml	#	95
94)	Pyrene	12.292	202	554586	10.310	ug/ml		99
96)	Butyl benzyl phthalate	13.010	149	256123	10.844	ug/ml		93
104)	Benzo(a)anthracene	13.509	228	543832	10.109	ug/ml		100
105)	3,3'-Dichlorobenzidine	13.515	252	206821	10.803	ug/ml		97
106)	Chrysene	13.545	228	510603	10.223	ug/ml		99
107)	Bis(2-ethylhexyl)phtha...	13.645	149	401933	11.145	ug/ml	#	91
108)	Di-n-octylphthalate	14.321	149	686886	11.290	ug/ml	#	73
109)	Benzo(b)fluoranthene	14.609	252	559732	10.891	ug/ml	#	95
110)	Benzo(k)fluoranthene	14.633	252	497557	10.100	ug/ml	#	93
111)	Benzo(a)pyrene	14.915	252	471038	10.713	ug/ml	#	94
113)	Indeno(1,2,3-cd)pyrene	15.927	276	433661M6	10.627	ug/mL		
114)	Dibenzo(a,h)anthracene	15.956	278	476349	10.916	ug/ml	#	92
115)	Benzo(ghi)perylene	16.162	276	464857	10.738	ug/ml	#	88

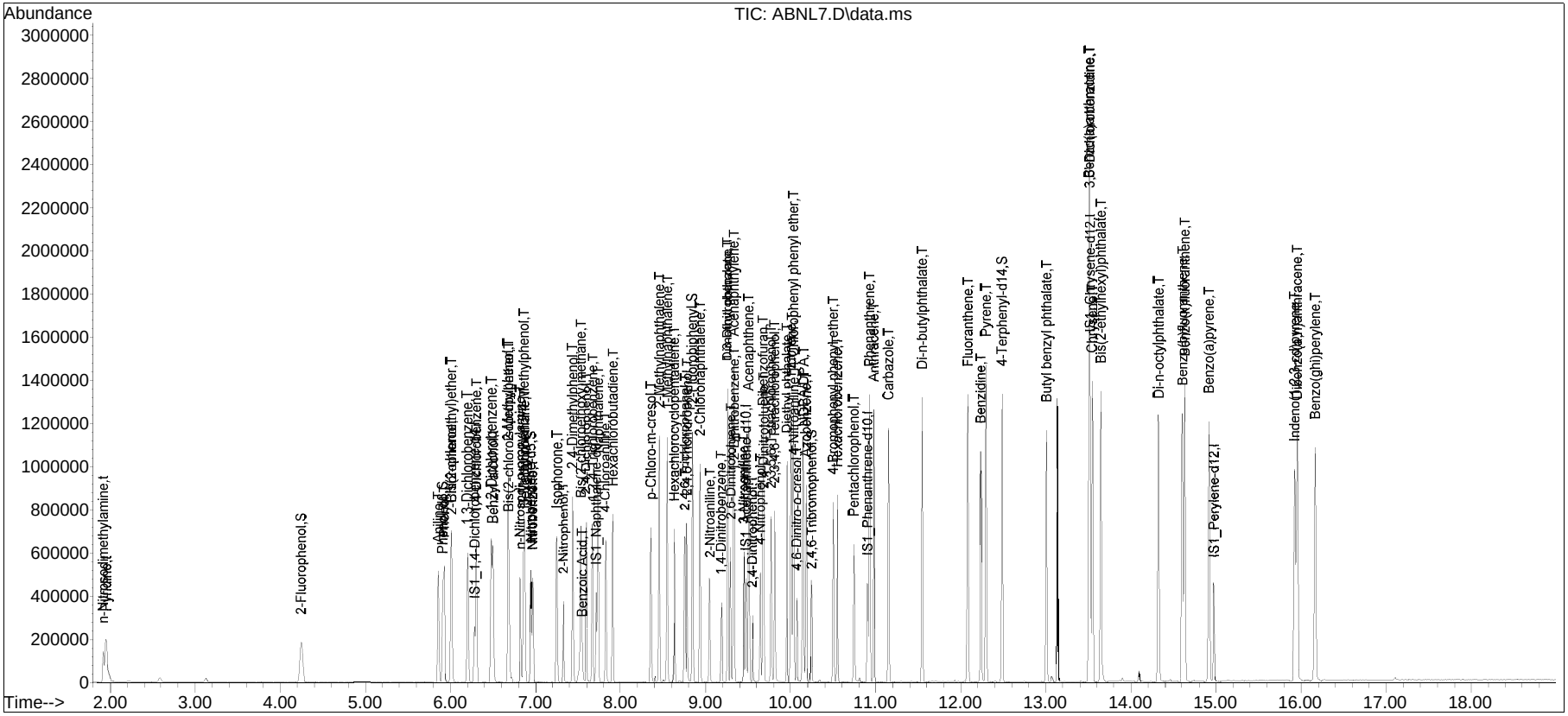
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL7.D
Acq On : 2 Sep 2023 1:24 pm
Operator : SV106:ljg
Sample : IL4,32,,ABNL10 Lot# 10165
Misc : WG1823680,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 11:15:03 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:56 2023
Response via : Initial Calibration

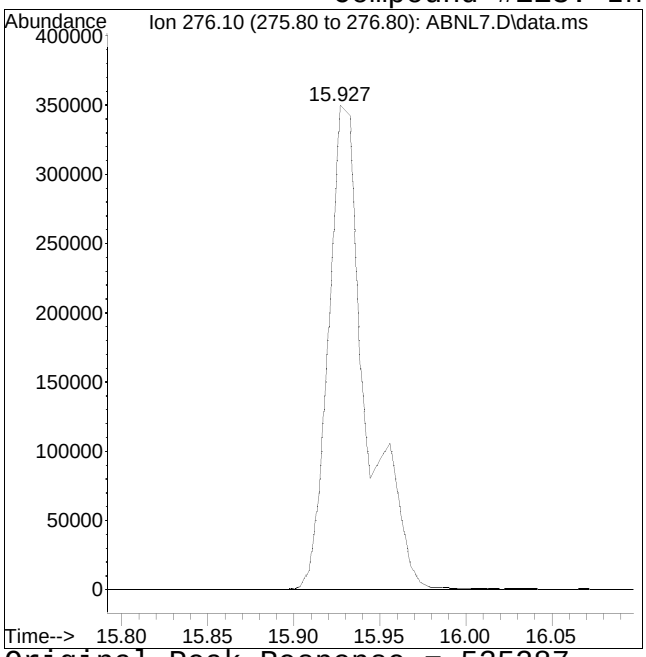
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•



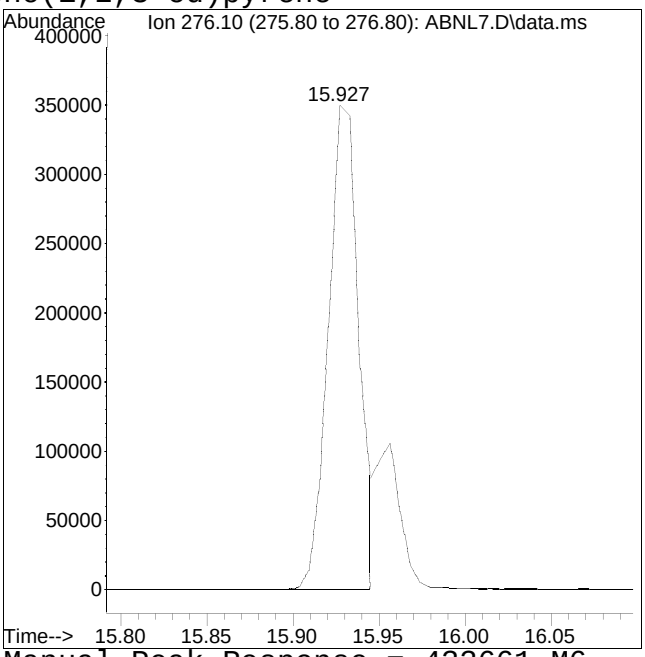
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL7.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 1:24 pm Instrument : SV 106
Sample : IL4,32,,ABNL10 Lot# 10165 Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 535287



Manual Peak Response = 433661 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL6.D
Acq On : 2 Sep 2023 1:48 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 10166
Misc : WG1823680,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 11:14:53 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.281	152	43113	4.000	ug/ml	0.00
Standard Area 1 = 43113			Recovery = 100.00%			
34) IS1_Naphthalene-d8	7.716	136	167432	4.000	ug/ml	# 0.00
Standard Area 1 = 167432			Recovery = 100.00%			
62) IS1_Acenaphthene-d10	9.475	164	93119	4.000	ug/ml	0.00
Standard Area 1 = 93119			Recovery = 100.00%			
87) IS1_Phenanthrene-d10	10.904	188	179535	4.000	ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 100.00%			
103) IS1_Chrysene-d12	13.521	240	164850	4.000	ug/ml	0.00
Standard Area 1 = 164850			Recovery = 100.00%			
112) IS1_Perylene-d12	14.974	264	183060	4.000	ug/ml	0.00
Standard Area 1 = 183060			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.251	112	53608	4.459	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 89.18%			
7) Phenol-d6	5.910	99	71612	4.623	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 92.46%			
19) Nitrobenzene-d5	6.945	82	62518	4.451	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 178.04%#			
45) 2-Fluorobiphenyl	8.839	172	141447	4.425	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 177.00%#			
78) 2,4,6-Tribromophenol	10.239	330	19770	4.627	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 92.54%			
95) 4-Terphenyl-d14	12.486	244	178232	4.526	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 181.04%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.928	74	33503	4.589	ug/ml#	67
3) Pyridine	1.969	79	57189	4.612	ug/ml#	62
5) Aniline	5.863	93	92709	4.544	ug/ml	97
6) 2-Chlorophenol	6.010	128	63839	4.649	ug/ml	91
8) Phenol	5.928	94	73966	4.512	ug/ml	96
9) Bis(2-chloroethyl)ether	6.004	93	60009	4.557	ug/ml#	83
10) 1,3-Dichlorobenzene	6.204	146	72377	4.597	ug/ml	98
11) 1,4-Dichlorobenzene	6.298	146	72405	4.469	ug/ml	98
12) 1,2-Dichlorobenzene	6.481	146	69434	4.501	ug/ml	97
13) Benzyl alcohol	6.498	79	53318	4.608	ug/ml	96
14) Bis(2-chloroisopropyl)...	6.687	45	88610	4.569	ug/ml#	51

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL6.D
Acq On : 2 Sep 2023 1:48 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 10166
Misc : WG1823680,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 11:14:53 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	54813	4.470	ug/ml	98
16) Hexachloroethane	6.875	117	28814	4.562	ug/ml#	77
17) n-Nitrosodi-n-propylamine	6.822	70	44872	4.509	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.863	108	58848	4.575	ug/ml	99
20) Nitrobenzene	6.963	77	64097	4.593	ug/ml	97
21) Isophorone	7.251	82	120453	4.510	ug/ml#	94
22) 2-Nitrophenol	7.328	139	25159	4.508	ug/ml#	90
23) 2,4-Dimethylphenol	7.434	107	64792	4.693	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.528	93	76418	4.567	ug/ml	99
25) 2,4-Dichlorophenol	7.592	162	54845	4.731	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.669	180	59450	4.466	ug/ml	97
35) Naphthalene	7.734	128	187039	4.431	ug/ml	99
36) Benzoic Acid	7.516	105	33776	4.546	ug/ml	93
37) 4-Chloroaniline	7.822	65	24945	4.514	ug/ml	86
38) Hexachlorobutadiene	7.910	225	37693	4.379	ug/ml	98
39) p-Chloro-m-cresol	8.357	107	56099	4.598	ug/ml	93
40) 2-Methylnaphthalene	8.457	142	119552	4.449	ug/ml	96
41) 1-Methylnaphthalene	8.551	115	45679	4.533	ug/ml	82
42) Hexachlorocyclopentadiene	8.634	237	40891	4.455	ug/ml	98
43) 2,4,6-Trichlorophenol	8.757	196	38187	4.374	ug/ml	99
44) 2,4,5-Trichlorophenol	8.781	196	41020	4.368	ug/ml	98
46) 2-Chloronaphthalene	8.934	162	124860	4.458	ug/ml	97
47) 2-Nitroaniline	9.045	138	32626	4.282	ug/ml	91
48) 1,4-Dinitrobenzene	9.181	168	12802	4.147	ug/ml	95
49) 1,3-Dinitrobenzene	9.257	168	15942	4.386	ug/ml#	1
50) Dimethyl phthalate	9.257	163	148549	4.507	ug/ml#	99
51) Acenaphthylene	9.334	152	198341	4.400	ug/ml	98
52) 2,6-Dinitrotoluene	9.298	165	26360	4.231	ug/ml	90
53) 1,2-Dinitrobenzene	9.334	168	11736	4.425	ug/ml#	1
63) 3-Nitroaniline	9.451	138	30446	4.571	ug/ml	96
64) Acenaphthene	9.504	154	116239	4.416	ug/ml	92
65) 2,4-Dinitrophenol	9.551	184	12622	4.471	ug/ml	97
66) Dibenzofuran	9.675	168	175680	4.465	ug/ml	100
67) 2,4-Dinitrotoluene	9.681	165	35384	4.273	ug/ml	89
68) 4-Nitrophenol	9.645	65	26288	4.234	ug/ml#	85
69) 2,3,5,6-Tetrachlorophenol	9.769	232	34630	4.578	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.810	232	35669	4.544	ug/ml	98
71) Diethyl phthalate	9.951	149	151630	4.603	ug/ml	99
72) Fluorene	10.010	166	140666	4.524	ug/ml	95
73) 4-Chlorophenyl phenyl ...	10.033	204	65856	4.439	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL6.D
Acq On : 2 Sep 2023 1:48 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 10166
Misc : WG1823680,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 11:14:53 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	10.039	138	32248	4.796	ug/ml#	85
75) 4,6-Dinitro-o-cresol	10.075	198	15208	4.206	ug/ml#	75
76) NDPA/DPA	10.145	169	120374	4.602	ug/ml	98
77) Azobenzene	10.181	77	139074	4.529	ug/ml	96
79) 4-Bromophenyl phenyl e...	10.498	248	38590	4.470	ug/ml	93
80) Hexachlorobenzene	10.545	284	43698	4.348	ug/ml#	88
81) Pentachlorophenol	10.739	266	25004	4.268	ug/ml	99
88) Phenanthrene	10.928	178	218498	4.469	ug/ml	100
89) Anthracene	10.975	178	220032	4.521	ug/ml	99
90) Carbazole	11.145	167	205218	4.615	ug/ml	100
91) Di-n-butylphthalate	11.545	149	260903	4.581	ug/ml	99
92) Fluoranthene	12.080	202	234340M3	4.483	ug/ml	
93) Benzidine	12.233	184	157906	4.572	ug/ml#	95
94) Pyrene	12.292	202	247443	4.471	ug/ml	100
96) Butyl benzyl phthalate	13.010	149	111041	4.569	ug/ml	89
104) Benzo(a)anthracene	13.510	228	244840	4.482	ug/ml	99
105) 3,3'-Dichlorobenzidine	13.516	252	90428	4.651	ug/ml	98
106) Chrysene	13.545	228	225709	4.450	ug/ml	100
107) Bis(2-ethylhexyl)phtha...	13.645	149	170515	4.656	ug/ml#	91
108) Di-n-octylphthalate	14.316	149	289524	4.686	ug/ml#	73
109) Benzo(b)fluoranthene	14.604	252	231440	4.435	ug/ml#	91
110) Benzo(k)fluoranthene	14.633	252	238988	4.777	ug/ml#	92
111) Benzo(a)pyrene	14.915	252	204531	4.581	ug/ml#	94
113) Indeno(1,2,3-cd)pyrene	15.927	276	190430M6	4.452	ug/mL	
114) Dibenzo(a,h)anthracene	15.957	278	210642	4.605	ug/ml#	91
115) Benzo(ghi)perylene	16.162	276	207270	4.568	ug/ml#	87

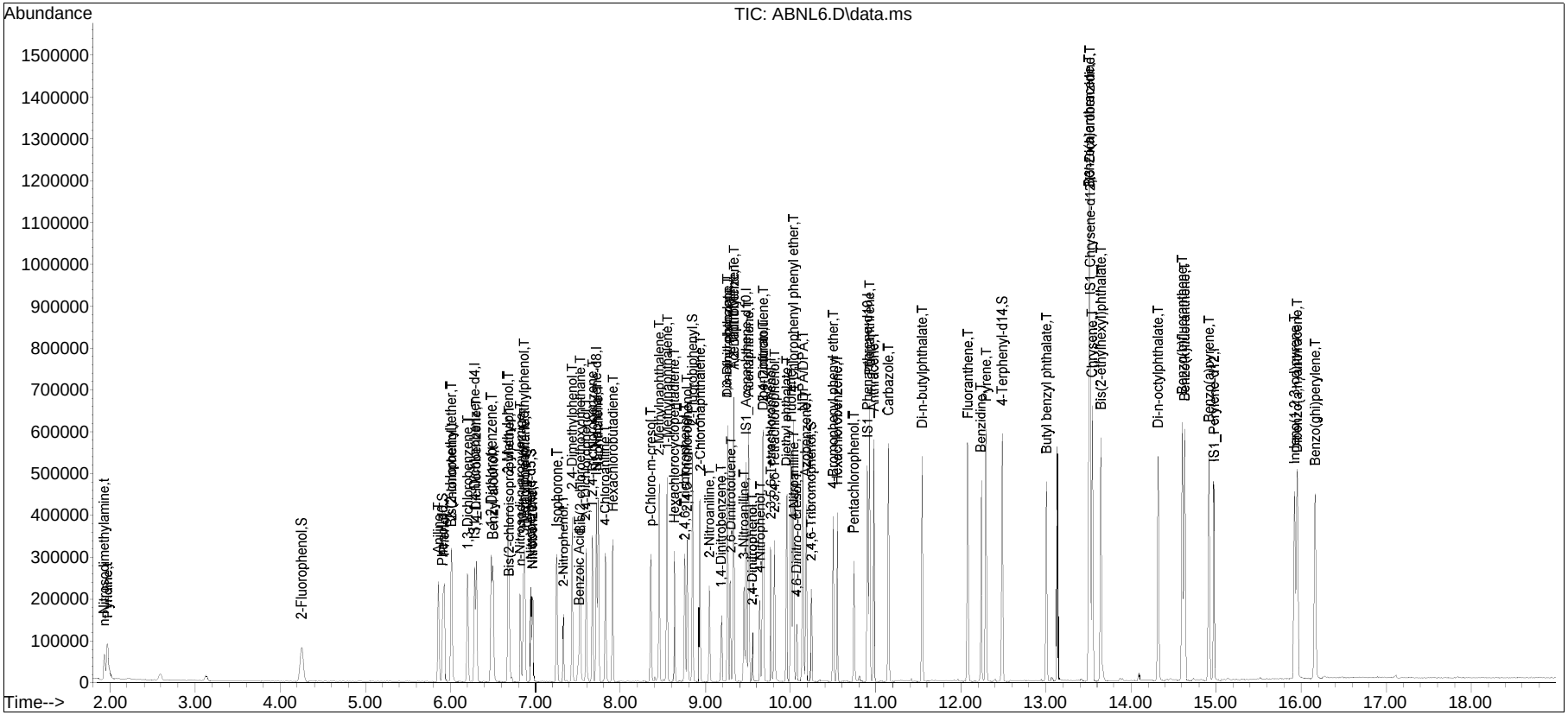
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL6.D
Acq On : 2 Sep 2023 1:48 pm
Operator : SV106:ljg
Sample : IL5,32,,ABNL5 Lot# 10166
Misc : WG1823680,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 11:14:53 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:47 2023
Response via : Initial Calibration

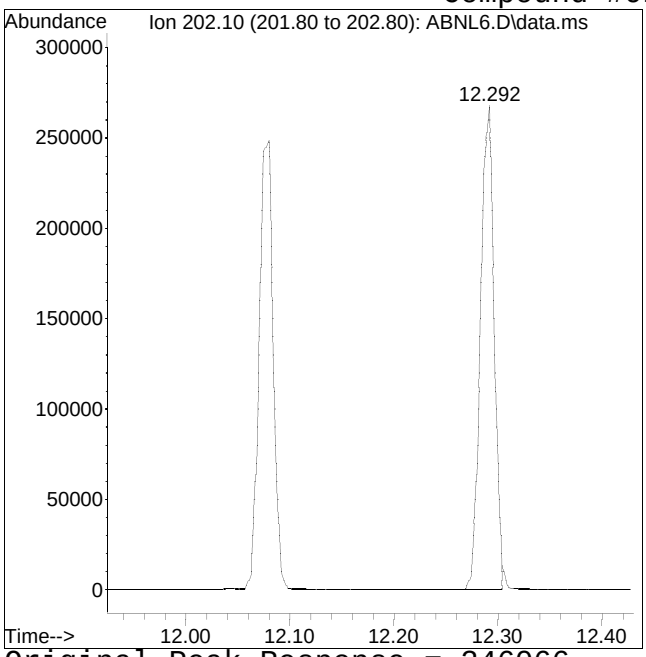
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•

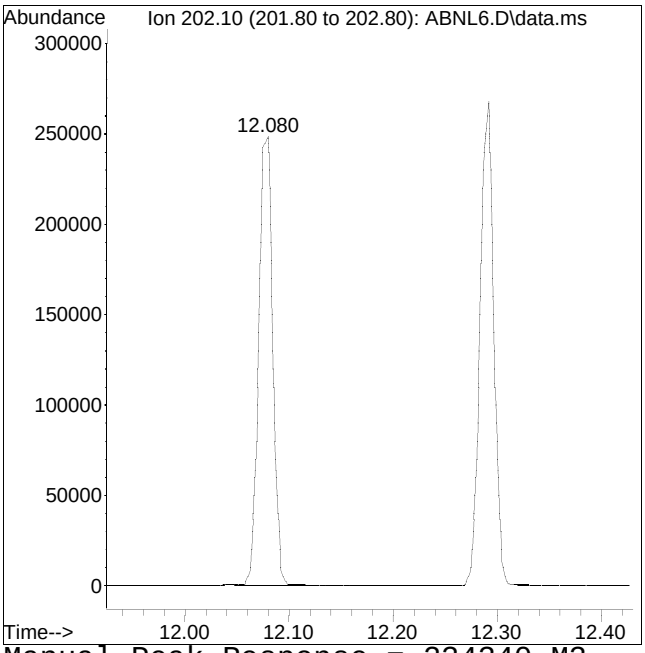


Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL6.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 1:48 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 10166 Quant Date : 9/5/2023 11:14 am

Compound #92: Fluoranthene



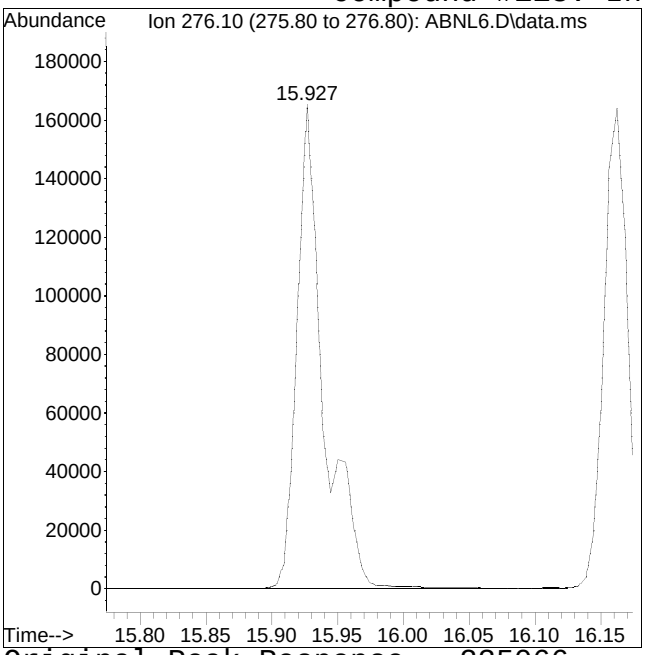


Original Peak Response = 246066 Manual Peak Response = 234340 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

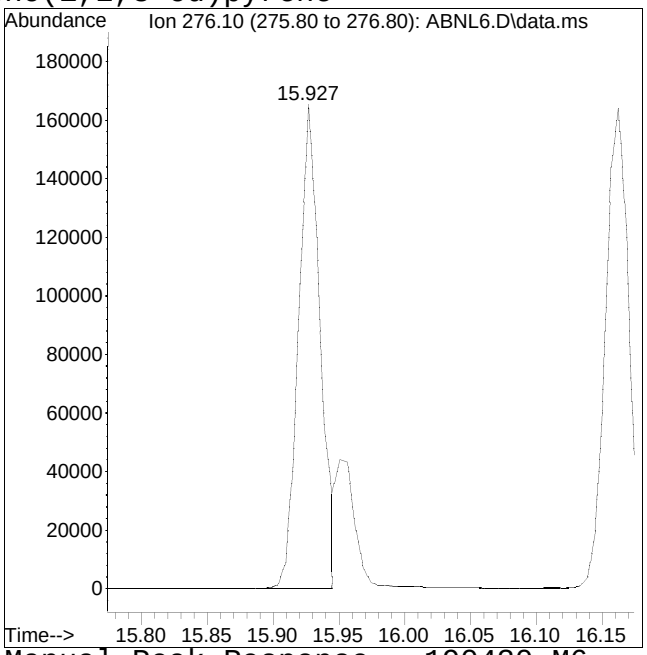
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL6.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 1:48 pm Instrument : SV 106
Sample : IL5,32,,ABNL5 Lot# 10166 Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 235066



Manual Peak Response = 190430 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL5.D
Acq On : 2 Sep 2023 2:12 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL3 Lot# 10167
Misc : WG1823680,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 11:14:44 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:38 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.281	152	42312	4.000	ug/ml	0.00
Standard Area 1 = 43113			Recovery = 98.14%			
34) IS1_Naphthalene-d8	7.716	136	163033	4.000	ug/ml #	0.00
Standard Area 1 = 167432			Recovery = 97.37%			
62) IS1_Acenaphthene-d10	9.474	164	91995	4.000	ug/ml	0.00
Standard Area 1 = 93119			Recovery = 98.79%			
87) IS1_Phenanthrene-d10	10.904	188	172155	4.000	ug/ml #	0.00
Standard Area 1 = 179535			Recovery = 95.89%			
103) IS1_Chrysene-d12	13.521	240	159415	4.000	ug/ml	0.00
Standard Area 1 = 164850			Recovery = 96.70%			
112) IS1_Perylene-d12	14.974	264	176549	4.000	ug/ml	0.00
Standard Area 1 = 183060			Recovery = 96.44%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.251	112	35149	2.979	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 59.58%			
7) Phenol-d6	5.910	99	44889	2.953	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 59.06%			
19) Nitrobenzene-d5	6.945	82	40659	2.950	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 118.00%			
45) 2-Fluorobiphenyl	8.839	172	90087	2.895	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 115.80%			
78) 2,4,6-Tribromophenol	10.239	330	11696	2.771	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 55.42%			
95) 4-Terphenyl-d14	12.486	244	111515	2.953	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 118.12%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.928	74	20951	2.924	ug/ml#	67
3) Pyridine	1.963	79	37299	3.065	ug/ml#	63
5) Aniline	5.863	93	59281	2.960	ug/ml	96
6) 2-Chlorophenol	6.010	128	39096	2.901	ug/ml	93
8) Phenol	5.928	94	48918	3.040	ug/ml	97
9) Bis(2-chloroethyl)ether	6.004	93	38247	2.959	ug/ml#	82
10) 1,3-Dichlorobenzene	6.198	146	46086	2.982	ug/ml	99
11) 1,4-Dichlorobenzene	6.298	146	46418	2.920	ug/ml	98
12) 1,2-Dichlorobenzene	6.481	146	43602	2.880	ug/ml	95
13) Benzyl alcohol	6.498	79	33271	2.930	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.681	45	57122	3.001	ug/ml#	50

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL5.D
Acq On : 2 Sep 2023 2:12 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL3 Lot# 10167
Misc : WG1823680,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 11:14:44 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:38 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	35025	2.910	ug/ml	97
16) Hexachloroethane	6.875	117	18148	2.928	ug/ml#	72
17) n-Nitrosodi-n-propylamine	6.828	70	28326	2.900	ug/ml	93
18) 3-Methylphenol/4-Methy...	6.863	108	37365	2.960	ug/ml	99
20) Nitrobenzene	6.969	77	40568	2.962	ug/ml	93
21) Isophorone	7.251	82	78289	2.987	ug/ml	94
22) 2-Nitrophenol	7.328	139	15290	2.791	ug/ml#	94
23) 2,4-Dimethylphenol	7.433	107	40833	3.014	ug/ml	95
24) Bis(2-chloroethoxy)met...	7.528	93	47869	2.915	ug/ml	100
25) 2,4-Dichlorophenol	7.592	162	34591	3.040	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.669	180	39338	3.011	ug/ml	98
35) Naphthalene	7.733	128	117635	2.862	ug/ml	98
36) Benzoic Acid	7.510	105	18831	3.294	ug/ml	95
37) 4-Chloroaniline	7.822	65	15556	2.891	ug/ml	83
38) Hexachlorobutadiene	7.910	225	25384	3.029	ug/ml	96
39) p-Chloro-m-cresol	8.357	107	35828	3.016	ug/ml	91
40) 2-Methylnaphthalene	8.457	142	76003	2.905	ug/ml	93
41) 1-Methylnaphthalene	8.551	115	28405	2.895	ug/ml	88
42) Hexachlorocyclopentadiene	8.633	237	27055	3.027	ug/ml	97
43) 2,4,6-Trichlorophenol	8.757	196	24955	2.935	ug/ml	99
44) 2,4,5-Trichlorophenol	8.780	196	26918	2.944	ug/ml	98
46) 2-Chloronaphthalene	8.933	162	81364	2.983	ug/ml	98
47) 2-Nitroaniline	9.045	138	19795	2.839	ug/ml	93
48) 1,4-Dinitrobenzene	9.180	168	8473	3.104	ug/ml	86
49) 1,3-Dinitrobenzene	9.257	168	9349	3.011	ug/ml#	1
50) Dimethyl phthalate	9.257	163	95028	2.961	ug/ml#	98
51) Acenaphthylene	9.333	152	128879	2.936	ug/ml	99
52) 2,6-Dinitrotoluene	9.298	165	16235	2.818	ug/ml	88
53) 1,2-Dinitrobenzene	9.333	168	7128	2.760	ug/ml#	1
63) 3-Nitroaniline	9.451	138	18738	2.847	ug/ml	93
64) Acenaphthene	9.504	154	74645	2.871	ug/ml	92
65) 2,4-Dinitrophenol	9.551	184	7566	3.154	ug/ml	98
66) Dibenzofuran	9.674	168	114249	2.939	ug/ml	100
67) 2,4-Dinitrotoluene	9.680	165	20985	2.755	ug/ml	87
68) 4-Nitrophenol	9.645	65	16769	2.890	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	9.769	232	22472	3.007	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.810	232	22951	2.959	ug/ml	95
71) Diethyl phthalate	9.951	149	95911	2.947	ug/ml	99
72) Fluorene	10.010	166	90139	2.935	ug/ml	96
73) 4-Chlorophenyl phenyl ...	10.033	204	42347	2.889	ug/ml	96

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL5.D
Acq On : 2 Sep 2023 2:12 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL3 Lot# 10167
Misc : WG1823680,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 11:14:44 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:38 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	10.039	138	20367	3.066	ug/ml#	83
75) 4,6-Dinitro-o-cresol	10.074	198	10188	3.229	ug/ml#	72
76) NDPA/DPA	10.145	169	75993	2.941	ug/ml	98
77) Azobenzene	10.180	77	88902	2.930	ug/ml	97
79) 4-Bromophenyl phenyl e...	10.498	248	24656	2.891	ug/ml	92
80) Hexachlorobenzene	10.545	284	28195	2.840	ug/ml	90
81) Pentachlorophenol	10.739	266	15254	2.807	ug/ml	98
88) Phenanthrene	10.927	178	142426	3.038	ug/ml	99
89) Anthracene	10.974	178	142235	3.048	ug/ml	100
90) Carbazole	11.145	167	128305	3.009	ug/ml	99
91) Di-n-butylphthalate	11.545	149	161574	2.959	ug/ml	99
92) Fluoranthene	12.080	202	149907	2.991	ug/ml#	93
93) Benzidine	12.233	184	101497	3.064	ug/ml#	94
94) Pyrene	12.292	202	158597	2.989	ug/ml	100
96) Butyl benzyl phthalate	13.009	149	67560	2.899	ug/ml	90
104) Benzo(a)anthracene	13.509	228	153452	2.905	ug/ml	98
105) 3,3'-Dichlorobenzidine	13.515	252	56312	2.995	ug/ml	97
106) Chrysene	13.545	228	144070	2.937	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.645	149	105128	2.968	ug/ml#	90
108) Di-n-octylphthalate	14.321	149	177441	2.970	ug/ml#	73
109) Benzo(b)fluoranthene	14.604	252	160940	3.189	ug/ml#	91
110) Benzo(k)fluoranthene	14.633	252	132771	2.745	ug/ml#	92
111) Benzo(a)pyrene	14.915	252	127901	2.962	ug/ml#	96
113) Indeno(1,2,3-cd)pyrene	15.927	276	117399M6	2.846	ug/mL	
114) Dibenzo(a,h)anthracene	15.950	278	129117	2.927	ug/ml#	92
115) Benzo(ghi)perylene	16.162	276	128102	2.927	ug/ml#	88

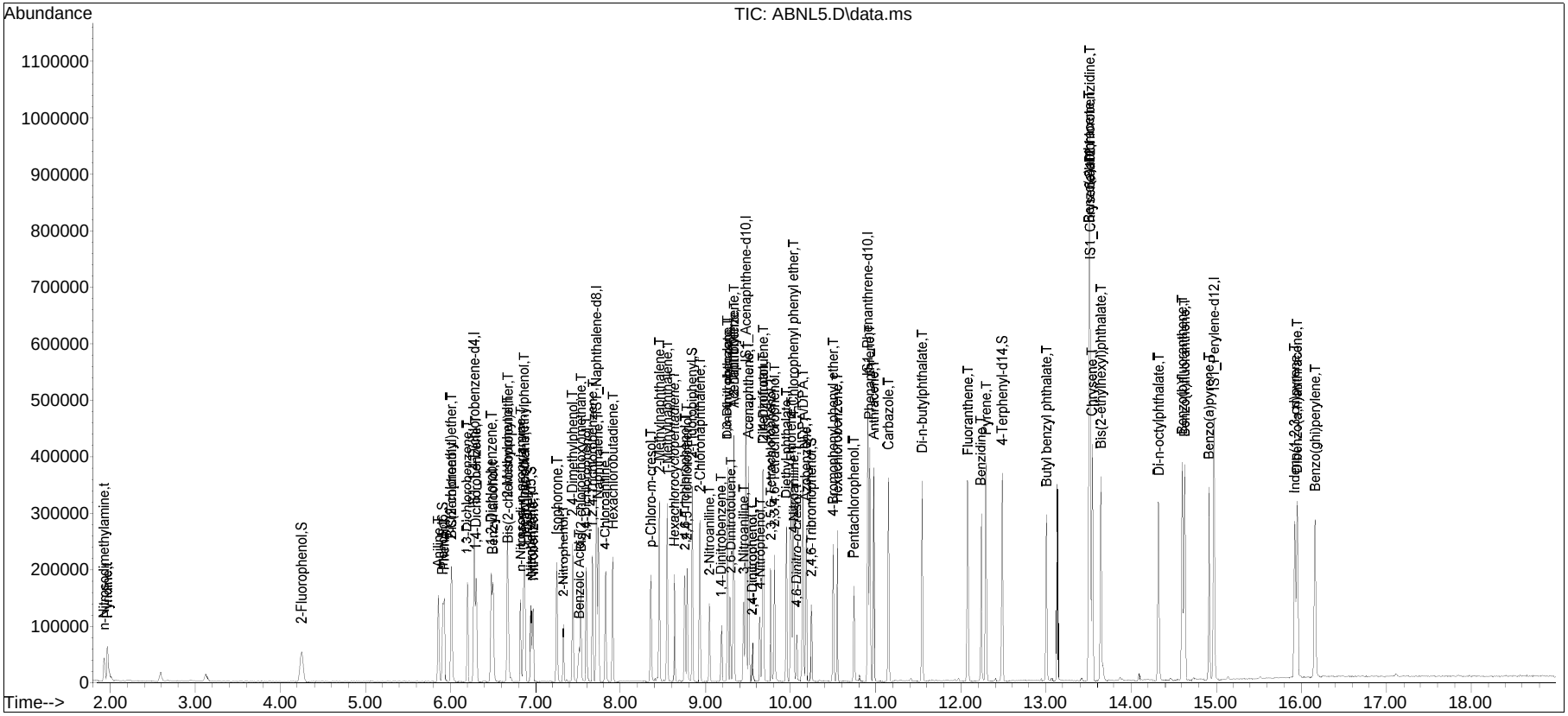
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL5.D
Acq On : 2 Sep 2023 2:12 pm
Operator : SV106:ljg
Sample : IL6,32,,ABNL3 Lot# 10167
Misc : WG1823680,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 11:14:44 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:38 2023
Response via : Initial Calibration

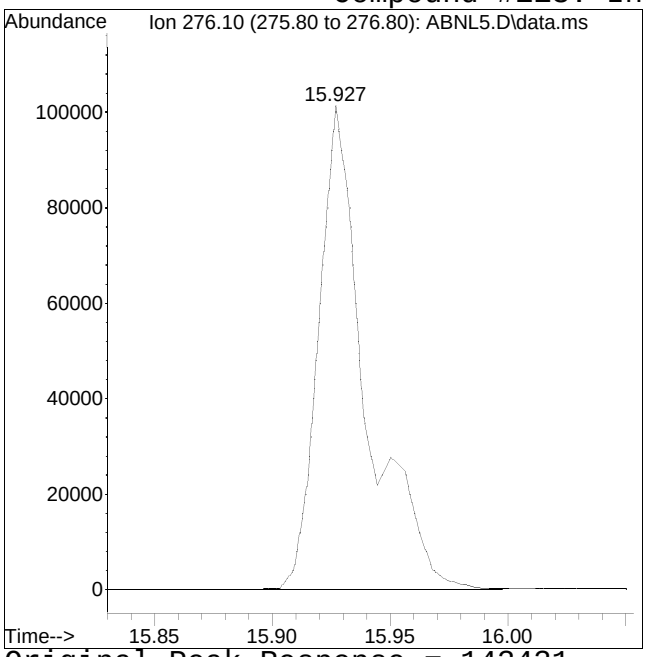
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•



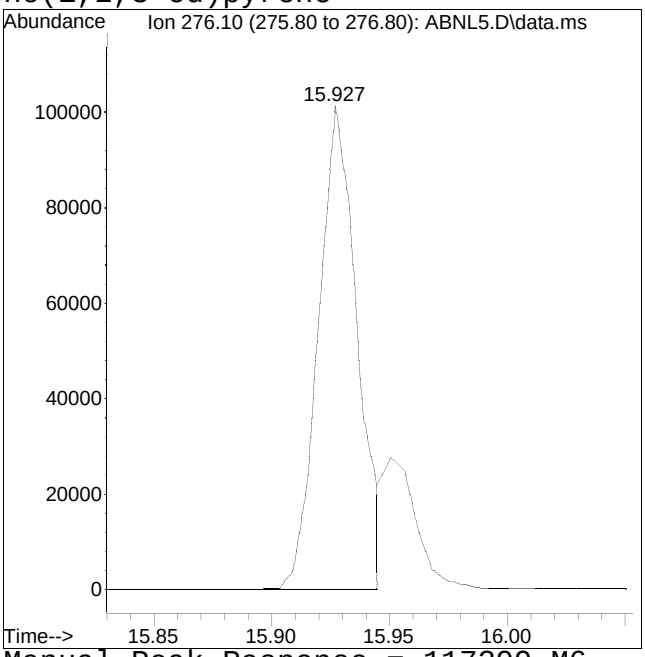
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL5.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 2:12 pm Instrument : SV 106
Sample : IL6,32,,ABNL3 Lot# 10167 Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 143431



Manual Peak Response = 117399 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL4.D
Acq On : 2 Sep 2023 2:36 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL2 Lot# 10168
Misc : WG1823680,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 11:14:35 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.281	152	41731	4.000 ug/ml	0.00
Standard Area 1 = 43113			Recovery = 96.79%		
34) IS1_Naphthalene-d8	7.716	136	156948	4.000 ug/ml	0.00
Standard Area 1 = 167432			Recovery = 93.74%		
62) IS1_Acenaphthene-d10	9.475	164	89480	4.000 ug/ml	0.00
Standard Area 1 = 93119			Recovery = 96.09%		
87) IS1_Phenanthrene-d10	10.904	188	167482	4.000 ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 93.29%		
103) IS1_Chrysene-d12	13.521	240	155774	4.000 ug/ml	0.00
Standard Area 1 = 164850			Recovery = 94.49%		
112) IS1_Perylene-d12	14.968	264	171492	4.000 ug/ml	0.00
Standard Area 1 = 183060			Recovery = 93.68%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.251	112	22606	1.942 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 38.84%		
7) Phenol-d6	5.910	99	29585	1.973 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 39.46%		
19) Nitrobenzene-d5	6.945	82	24814	1.825 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 73.00%		
45) 2-Fluorobiphenyl	8.839	172	61588	2.056 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 82.24%		
78) 2,4,6-Tribromophenol	10.239	330	7852	1.912 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 38.24%		
95) 4-Terphenyl-d14	12.486	244	74145	2.018 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 80.72%		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.928	74	14209	2.011 ug/ml#	61
3) Pyridine	1.969	79	23287	1.940 ug/ml#	66
5) Aniline	5.863	93	39683	2.009 ug/ml	97
6) 2-Chlorophenol	6.010	128	26598	2.001 ug/ml	93
8) Phenol	5.928	94	31378	1.977 ug/ml	95
9) Bis(2-chloroethyl)ether	6.004	93	25366	1.990 ug/ml#	83
10) 1,3-Dichlorobenzene	6.198	146	30304	1.988 ug/ml	97
11) 1,4-Dichlorobenzene	6.298	146	31173	1.988 ug/ml	99
12) 1,2-Dichlorobenzene	6.481	146	30377	2.034 ug/ml	98
13) Benzyl alcohol	6.498	79	21876	1.953 ug/ml	97
14) Bis(2-chloroisopropyl)...	6.681	45	37678	2.007 ug/ml#	49

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL4.D
Acq On : 2 Sep 2023 2:36 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL2 Lot# 10168
Misc : WG1823680,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 11:14:35 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	23996	2.022	ug/ml	96
16) Hexachloroethane	6.875	117	11936	1.953	ug/ml#	70
17) n-Nitrosodi-n-propylamine	6.828	70	18660	1.937	ug/ml	96
18) 3-Methylphenol/4-Methy...	6.863	108	25484	2.047	ug/ml	99
20) Nitrobenzene	6.969	77	25949	1.921	ug/ml	97
21) Isophorone	7.251	82	50603	1.957	ug/ml	93
22) 2-Nitrophenol	7.328	139	9618	1.780	ug/ml#	93
23) 2,4-Dimethylphenol	7.434	107	26087	1.952	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.528	93	32196	1.988	ug/ml#	97
25) 2,4-Dichlorophenol	7.592	162	22263	1.984	ug/ml	98
26) 1,2,4-Trichlorobenzene	7.669	180	26311	2.042	ug/ml	97
35) Naphthalene	7.734	128	79750	2.016	ug/ml	99
36) Benzoic Acid	7.504	105	10556	2.594	ug/ml	94
37) 4-Chloroaniline	7.822	65	10481	2.023	ug/ml	91
38) Hexachlorobutadiene	7.910	225	15713	1.947	ug/ml	97
39) p-Chloro-m-cresol	8.357	107	21570	1.886	ug/ml	96
40) 2-Methylnaphthalene	8.457	142	51001	2.025	ug/ml	97
41) 1-Methylnaphthalene	8.551	115	19850	2.101	ug/ml	78
42) Hexachlorocyclopentadiene	8.633	237	17160	1.995	ug/ml	99
43) 2,4,6-Trichlorophenol	8.757	196	15813	1.932	ug/ml	97
44) 2,4,5-Trichlorophenol	8.781	196	17246	1.959	ug/ml	97
46) 2-Chloronaphthalene	8.933	162	53487	2.037	ug/ml	97
47) 2-Nitroaniline	9.045	138	11982	1.954	ug/ml	95
48) 1,4-Dinitrobenzene	9.180	168	5424	2.363	ug/ml	86
49) 1,3-Dinitrobenzene	9.257	168	6256	2.376	ug/ml#	1
50) Dimethyl phthalate	9.257	163	60987	1.974	ug/ml#	98
51) Acenaphthylene	9.333	152	84227	1.993	ug/ml	98
52) 2,6-Dinitrotoluene	9.298	165	10643	2.042	ug/ml#	84
53) 1,2-Dinitrobenzene	9.333	168	4278	1.721	ug/ml#	1
63) 3-Nitroaniline	9.451	138	11690	1.826	ug/ml#	93
64) Acenaphthene	9.504	154	50539	1.998	ug/ml	96
65) 2,4-Dinitrophenol	9.551	184	4196	2.281	ug/ml	94
66) Dibenzofuran	9.675	168	74795	1.978	ug/ml	99
67) 2,4-Dinitrotoluene	9.686	165	13678	2.003	ug/ml	91
68) 4-Nitrophenol	9.639	65	10308	1.988	ug/ml#	86
69) 2,3,5,6-Tetrachlorophenol	9.769	232	14570	2.004	ug/ml	95
70) 2,3,4,6-Tetrachlorophenol	9.810	232	13746	1.822	ug/ml	97
71) Diethyl phthalate	9.951	149	63276	1.999	ug/ml	99
72) Fluorene	10.010	166	58093	1.945	ug/ml	92
73) 4-Chlorophenyl phenyl ...	10.033	204	28693	2.013	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL4.D
Acq On : 2 Sep 2023 2:36 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL2 Lot# 10168
Misc : WG1823680,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 11:14:35 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:29 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	10.033	138	12792	1.980	ug/ml	88
75)	4,6-Dinitro-o-cresol	10.075	198	5623	2.338	ug/ml#	80
76)	NDPA/DPA	10.145	169	49643	1.975	ug/ml	98
77)	Azobenzene	10.180	77	56522	1.915	ug/ml	97
79)	4-Bromophenyl phenyl e...	10.498	248	15475	1.865	ug/ml	93
80)	Hexachlorobenzene	10.545	284	18699	1.936	ug/ml#	83
81)	Pentachlorophenol	10.739	266	9959	2.032	ug/ml	96
88)	Phenanthrene	10.927	178	89441	1.961	ug/ml	98
89)	Anthracene	10.974	178	91008	2.005	ug/ml	99
90)	Carbazole	11.145	167	85377	2.058	ug/ml	99
91)	Di-n-butylphthalate	11.545	149	103077	1.940	ug/ml	99
92)	Fluoranthene	12.080	202	97191	1.993	ug/ml#	92
93)	Benzidine	12.233	184	63784	1.980	ug/ml#	94
94)	Pyrene	12.292	202	104549	2.025	ug/ml	100
96)	Butyl benzyl phthalate	13.010	149	41652	1.837	ug/ml	90
104)	Benzo(a)anthracene	13.510	228	97396	1.887	ug/ml	100
105)	3,3'-Dichlorobenzidine	13.515	252	34464	1.876	ug/ml	99
106)	Chrysene	13.545	228	93631	1.954	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	13.645	149	67902	1.962	ug/ml#	90
108)	Di-n-octylphthalate	14.315	149	109282	1.872	ug/ml#	74
109)	Benzo(b)fluoranthene	14.604	252	94824	1.923	ug/ml#	95
110)	Benzo(k)fluoranthene	14.627	252	97734	2.068	ug/ml#	95
111)	Benzo(a)pyrene	14.915	252	84576	2.005	ug/ml#	95
113)	Indeno(1,2,3-cd)pyrene	15.927	276	78921M6	1.970	ug/mL	
114)	Dibenzo(a,h)anthracene	15.951	278	83553	1.950	ug/ml#	91
115)	Benzo(ghi)perylene	16.162	276	85228	2.005	ug/ml#	89

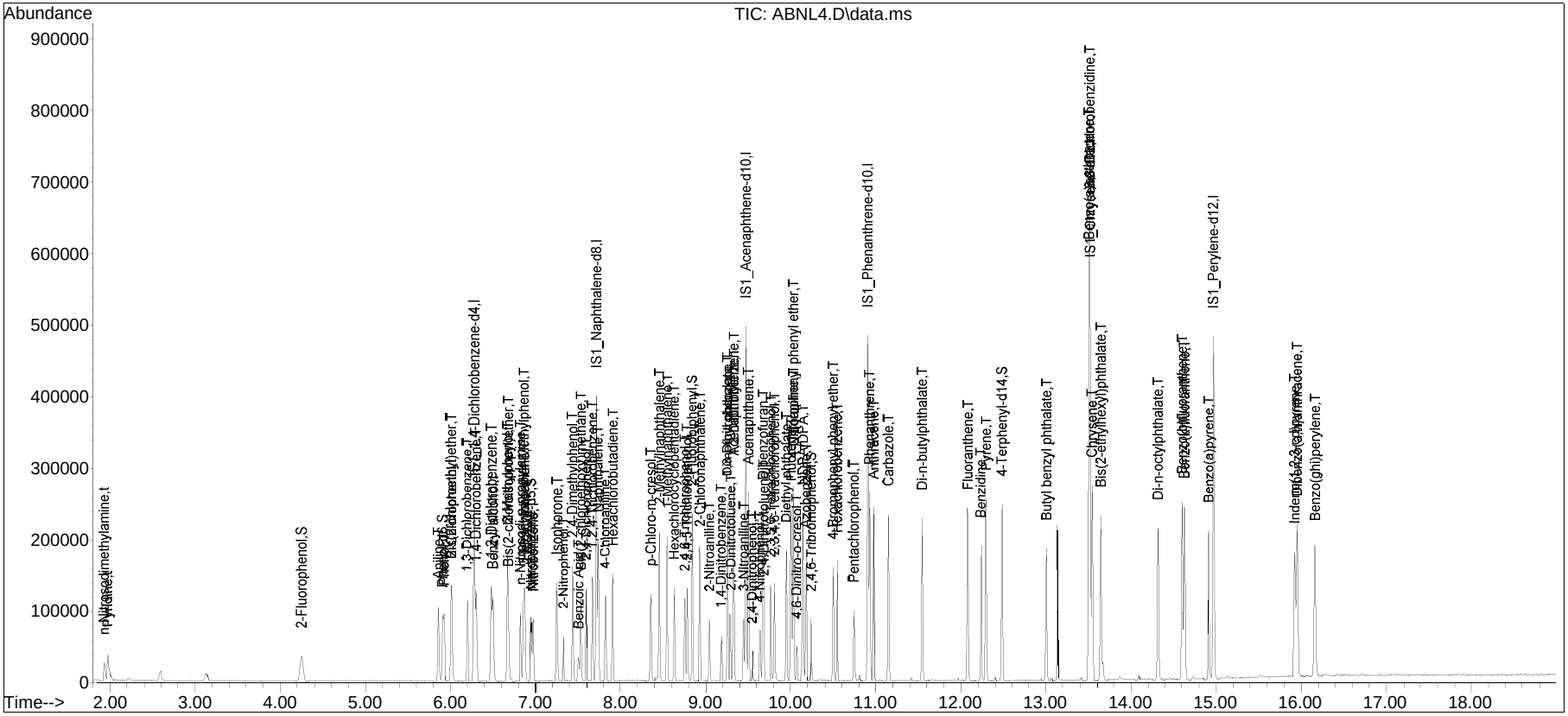
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL4.D
Acq On : 2 Sep 2023 2:36 pm
Operator : SV106:ljg
Sample : IL7,32,,ABNL2 Lot# 10168
Misc : WG1823680,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 11:14:35 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:29 2023
Response via : Initial Calibration

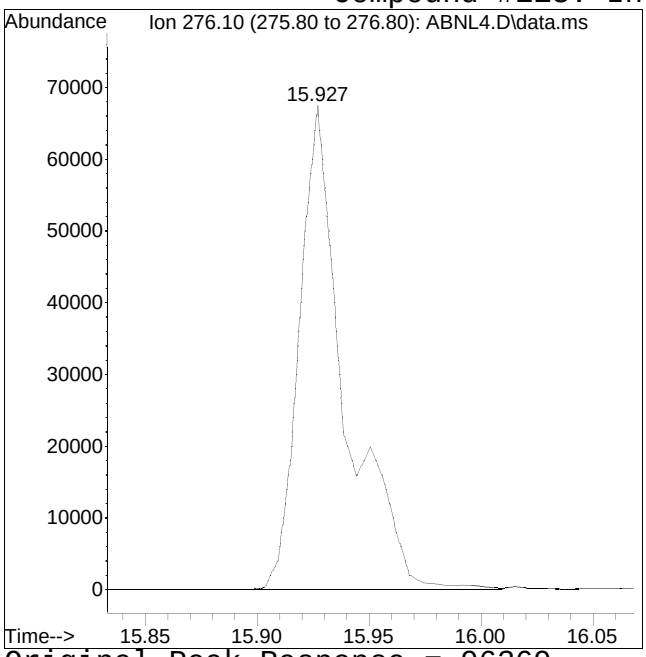
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•



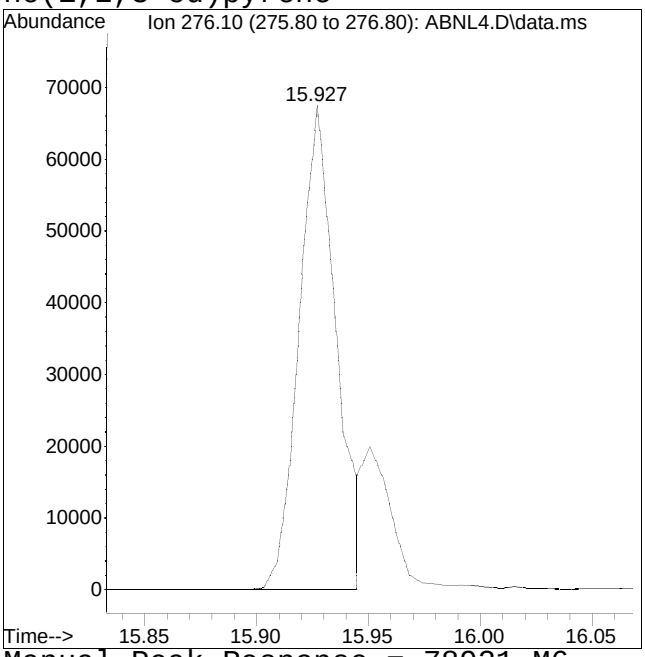
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL4.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 2:36 pm Instrument : SV 106
Sample : IL7,32,,ABNL2 Lot# 10168 Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 96369



Manual Peak Response = 78921 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL3.D
Acq On : 2 Sep 2023 2:59 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL1 Lot# 10169
Misc : WG1823680,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 11:14:26 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.281	152	60782	4.000	ug/ml	0.00
Standard Area 1 = 43113			Recovery = 140.98%			
34) IS1_Naphthalene-d8	7.716	136	227051	4.000	ug/ml	0.00
Standard Area 1 = 167432			Recovery = 135.61%			
62) IS1_Acenaphthene-d10	9.475	164	128574	4.000	ug/ml	0.00
Standard Area 1 = 93119			Recovery = 138.07%			
87) IS1_Phenanthrene-d10	10.904	188	254702	4.000	ug/ml	0.00
Standard Area 1 = 179535			Recovery = 141.87%			
103) IS1_Chrysene-d12	13.515	240	228188	4.000	ug/ml	0.00
Standard Area 1 = 164850			Recovery = 138.42%			
112) IS1_Perylene-d12	14.968	264	250944	4.000	ug/ml	0.00
Standard Area 1 = 183060			Recovery = 137.08%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.251	112	17106	1.009	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20.18%			
7) Phenol-d6	5.910	99	21987	1.007	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20.14%			
19) Nitrobenzene-d5	6.945	82	19597	0.990	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 39.60%			
45) 2-Fluorobiphenyl	8.839	172	45354	1.046	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 41.84%			
78) 2,4,6-Tribromophenol	10.239	330	5949	1.008	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20.16%			
95) 4-Terphenyl-d14	12.486	244	57410	1.028	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 41.12%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.934	74	10678	1.038	ug/ml#	68
3) Pyridine	1.981	79	17672	1.011	ug/ml#	67
5) Aniline	5.863	93	29848	1.038	ug/ml	98
6) 2-Chlorophenol	6.010	128	20234	1.045	ug/ml	90
8) Phenol	5.928	94	23707	1.026	ug/ml	100
9) Bis(2-chloroethyl)ether	6.004	93	18583	1.001	ug/ml#	79
10) 1,3-Dichlorobenzene	6.204	146	23465	1.057	ug/ml	98
11) 1,4-Dichlorobenzene	6.298	146	23262	1.018	ug/ml	97
12) 1,2-Dichlorobenzene	6.481	146	22252	1.023	ug/ml	98
13) Benzyl alcohol	6.498	79	16725	1.025	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.681	45	28716	1.050	ug/ml#	52

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL3.D
Acq On : 2 Sep 2023 2:59 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL1 Lot# 10169
Misc : WG1823680,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 11:14:26 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	17307	1.001	ug/ml	96
16) Hexachloroethane	6.875	117	9587	1.077	ug/ml#	79
17) n-Nitrosodi-n-propylamine	6.828	70	14218	1.013	ug/ml	95
18) 3-Methylphenol/4-Methy...	6.863	108	18429	1.016	ug/ml	98
20) Nitrobenzene	6.969	77	18887	0.960	ug/ml	99
21) Isophorone	7.251	82	37965	1.008	ug/ml	97
22) 2-Nitrophenol	7.328	139	7055	0.897	ug/ml#	93
23) 2,4-Dimethylphenol	7.434	107	19008	0.977	ug/ml	96
24) Bis(2-chloroethoxy)met...	7.528	93	23868	1.012	ug/ml	97
25) 2,4-Dichlorophenol	7.592	162	15562	0.952	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.669	180	19564	1.043	ug/ml	98
35) Naphthalene	7.734	128	59541	1.040	ug/ml	100
36) Benzoic Acid	7.498	105	6568	2.037	ug/ml	96
37) 4-Chloroaniline	7.822	65	7471	0.997	ug/ml	83
38) Hexachlorobutadiene	7.910	225	11962	1.025	ug/ml	98
39) p-Chloro-m-cresol	8.357	107	16586	1.002	ug/ml	96
40) 2-Methylnaphthalene	8.457	142	38762	1.064	ug/ml	95
41) 1-Methylnaphthalene	8.551	115	14355	1.050	ug/ml	84
42) Hexachlorocyclopentadiene	8.633	237	12084	0.971	ug/ml	99
43) 2,4,6-Trichlorophenol	8.751	196	11663	0.985	ug/ml	95
44) 2,4,5-Trichlorophenol	8.781	196	12573	0.987	ug/ml	99
46) 2-Chloronaphthalene	8.933	162	40801	1.074	ug/ml	98
47) 2-Nitroaniline	9.045	138	8942	1.228	ug/ml	91
48) 1,4-Dinitrobenzene	9.180	168	3566	1.560	ug/ml	98
49) 1,3-Dinitrobenzene	9.257	168	4125	1.589	ug/ml#	1
50) Dimethyl phthalate	9.257	163	47966	1.073	ug/ml#	97
51) Acenaphthylene	9.333	152	63845	1.044	ug/ml	99
52) 2,6-Dinitrotoluene	9.298	165	7320	1.173	ug/ml	92
53) 1,2-Dinitrobenzene	9.333	168	2921	0.812	ug/ml#	1
63) 3-Nitroaniline	9.451	138	8868	0.964	ug/ml	85
64) Acenaphthene	9.504	154	37746	1.039	ug/ml	91
65) 2,4-Dinitrophenol	9.551	184	3067	1.712	ug/ml	97
66) Dibenzofuran	9.675	168	57559	1.059	ug/ml	100
67) 2,4-Dinitrotoluene	9.680	165	9939	1.247	ug/ml	89
68) 4-Nitrophenol	9.639	65	7513	1.225	ug/ml#	89
69) 2,3,5,6-Tetrachlorophenol	9.769	232	10416	0.997	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.810	232	11432	1.055	ug/ml	97
71) Diethyl phthalate	9.951	149	47550	1.045	ug/ml	99
72) Fluorene	10.010	166	45094	1.050	ug/ml	96
73) 4-Chlorophenyl phenyl ...	10.033	204	21448	1.047	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL3.D
Acq On : 2 Sep 2023 2:59 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL1 Lot# 10169
Misc : WG1823680,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 11:14:26 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	10.033	138	9418	1.014	ug/ml#	85
75)	4,6-Dinitro-o-cresol	10.075	198	4154	1.770	ug/ml#	78
76)	NDPA/DPA	10.145	169	38179	1.057	ug/ml	99
77)	Azobenzene	10.180	77	44047	1.039	ug/ml	97
79)	4-Bromophenyl phenyl e...	10.498	248	12814	1.075	ug/ml	92
80)	Hexachlorobenzene	10.545	284	14861	1.071	ug/ml	88
81)	Pentachlorophenol	10.739	266	6908	1.213	ug/ml	98
88)	Phenanthrene	10.927	178	70145	1.011	ug/ml	98
89)	Anthracene	10.974	178	72033	1.043	ug/ml	99
90)	Carbazole	11.145	167	64397	1.021	ug/ml	99
91)	Di-n-butylphthalate	11.545	149	78746	0.975	ug/ml	99
92)	Fluoranthene	12.074	202	74583	1.006	ug/ml#	92
93)	Benzidine	12.233	184	47749	0.974	ug/ml#	95
94)	Pyrene	12.286	202	80555	1.026	ug/ml	99
96)	Butyl benzyl phthalate	13.010	149	32482	0.942	ug/ml	89
104)	Benzo(a)anthracene	13.510	228	78416	1.037	ug/ml	96
105)	3,3'-Dichlorobenzidine	13.515	252	27099	1.007	ug/ml	97
106)	Chrysene	13.545	228	73260	1.044	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.645	149	51430	1.015	ug/ml#	94
108)	Di-n-octylphthalate	14.315	149	82467	0.964	ug/ml#	74
109)	Benzo(b)fluoranthene	14.604	252	74815	1.036	ug/ml#	96
110)	Benzo(k)fluoranthene	14.627	252	69325M3	1.001	ug/ml	
111)	Benzo(a)pyrene	14.910	252	64941	1.051	ug/ml#	96
113)	Indeno(1,2,3-cd)pyrene	15.927	276	57776M6	0.985	ug/mL	
114)	Dibenzo(a,h)anthracene	15.951	278	62111	0.991	ug/ml#	92
115)	Benzo(ghi)perylene	16.157	276	65436	1.052	ug/ml#	87

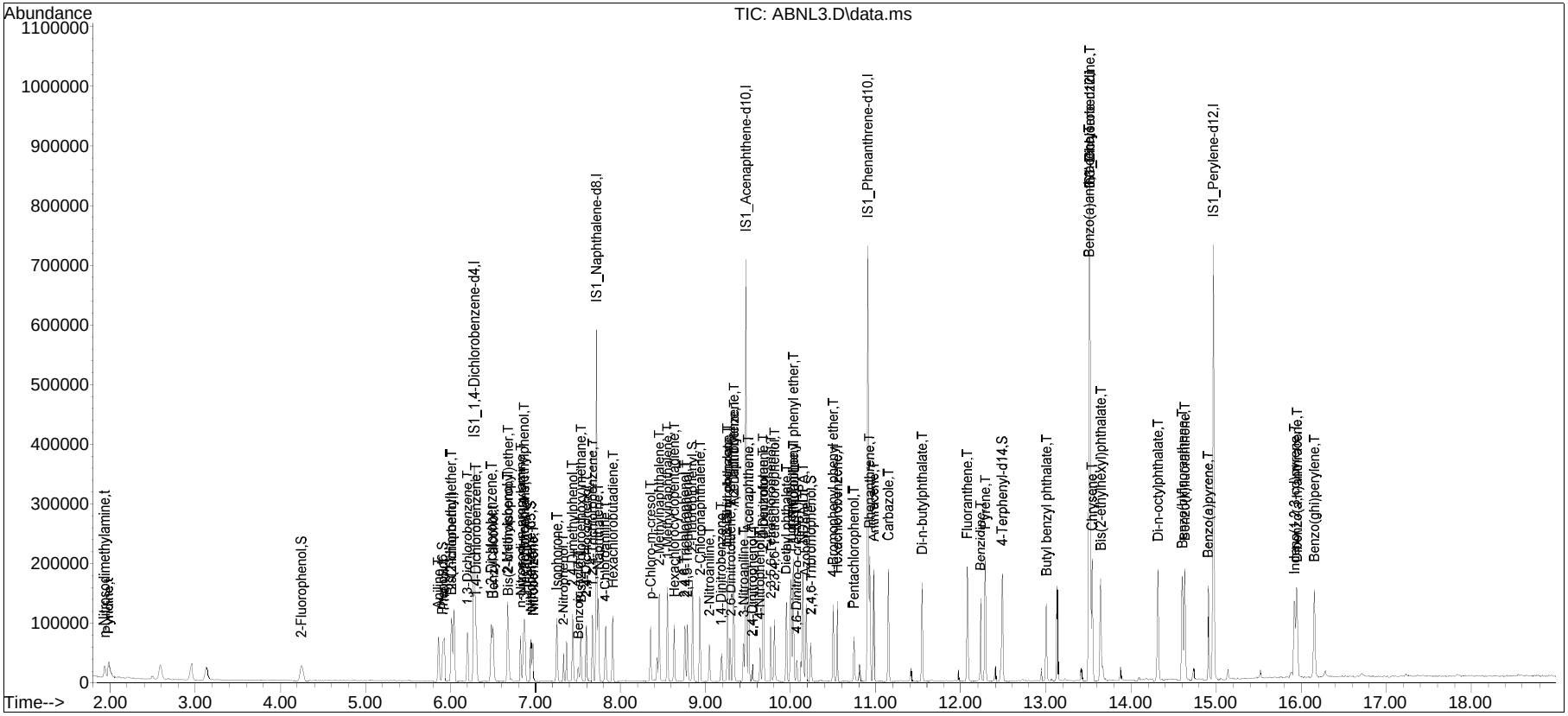
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL3.D
Acq On : 2 Sep 2023 2:59 pm
Operator : SV106:ljg
Sample : IL8,32,,ABNL1 Lot# 10169
Misc : WG1823680,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 05 11:14:26 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:20 2023
Response via : Initial Calibration

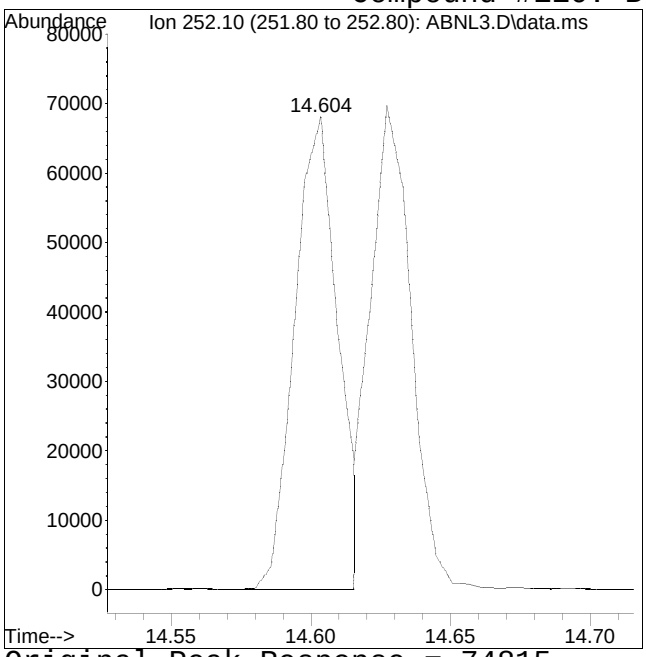
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•

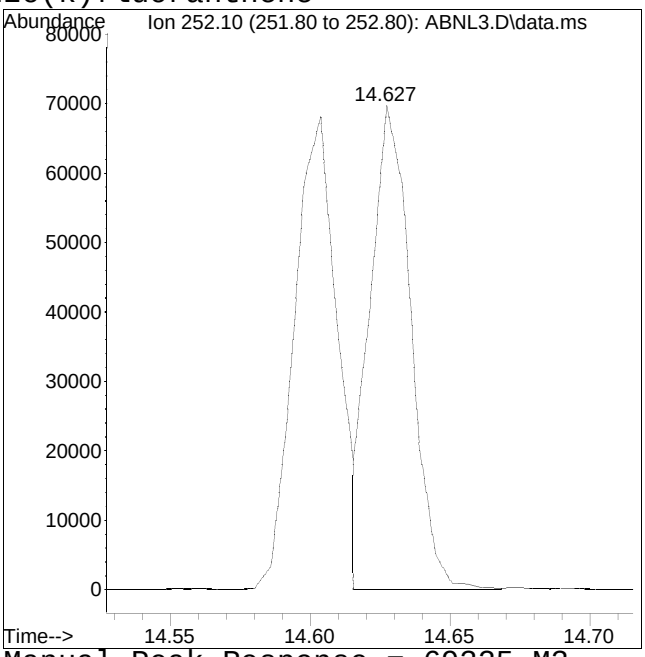


Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL3.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 2:59 pm Instrument : SV 106
Sample : IL8,32,,ABNL1 Lot# 10169 Quant Date : 9/5/2023 11:14 am

Compound #110: Benzo(k)fluoranthene



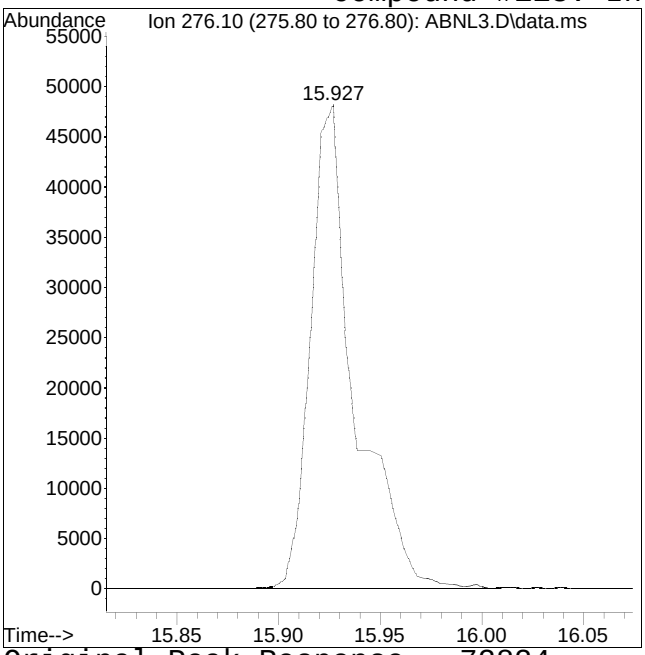


Original Peak Response = 74815 Manual Peak Response = 69325 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

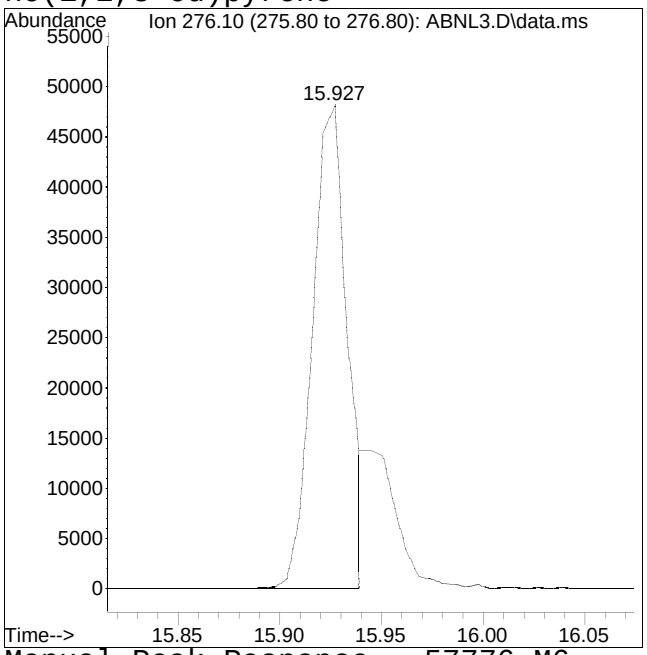
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL3.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 2:59 pm Instrument : SV 106
Sample : IL8,32,,ABNL1 Lot# 10169 Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 72824



Manual Peak Response = 57776 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL2.D
Acq On : 2 Sep 2023 3:23 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.4 Lot# 10170
Misc : WG1823680,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 11:14:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:12 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.281	152	39844	4.000 ug/ml	0.00
Standard Area 1 = 43113			Recovery = 92.42%		
34) IS1_Naphthalene-d8	7.716	136	154749	4.000 ug/ml	0.00
Standard Area 1 = 167432			Recovery = 92.42%		
62) IS1_Acenaphthene-d10	9.475	164	82617	4.000 ug/ml	0.00
Standard Area 1 = 93119			Recovery = 88.72%		
87) IS1_Phenanthrene-d10	10.904	188	167849	4.000 ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 93.49%		
103) IS1_Chrysene-d12	13.515	240	145971	4.000 ug/ml	0.00
Standard Area 1 = 164850			Recovery = 88.55%		
112) IS1_Perylene-d12	14.968	264	163619	4.000 ug/ml	0.00
Standard Area 1 = 183060			Recovery = 89.38%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.257	112	4367	0.393 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 7.86%#		
7) Phenol-d6	5.916	99	5777	0.404 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 8.08%#		
19) Nitrobenzene-d5	6.945	82	5100	0.393 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 15.72%#		
45) 2-Fluorobiphenyl	8.839	172	11308	0.383 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 15.32%#		
78) 2,4,6-Tribromophenol	10.239	330	1383	0.365 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 7.30%#		
95) 4-Terphenyl-d14	12.486	244	14090	0.383 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 15.32%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.940	74	2582	0.383 ug/ml#	69
3) Pyridine	1.993	79	4462	0.389 ug/ml#	58
5) Aniline	5.863	93	7302	0.387 ug/ml	97
6) 2-Chlorophenol	6.010	128	4760	0.375 ug/ml	96
8) Phenol	5.928	94	5587	0.369 ug/ml	95
9) Bis(2-chloroethyl)ether	6.004	93	4651	0.382 ug/ml#	75
10) 1,3-Dichlorobenzene	6.204	146	5601	0.385 ug/ml	88
11) 1,4-Dichlorobenzene	6.298	146	5651M3	0.377 ug/ml	
12) 1,2-Dichlorobenzene	6.481	146	5675	0.398 ug/ml	95
13) Benzyl alcohol	6.498	79	3558	0.333 ug/ml	90
14) Bis(2-chloroisopropyl)...	6.687	45	7323	0.409 ug/ml#	58

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL2.D
Acq On : 2 Sep 2023 3:23 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.4 Lot# 10170
Misc : WG1823680,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 11:14:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:12 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	4455	0.393	ug/ml#	93
16) Hexachloroethane	6.875	117	2286	0.392	ug/ml#	69
17) n-Nitrosodi-n-propylamine	6.828	70	3596	0.391	ug/ml#	87
18) 3-Methylphenol/4-Methy...	6.863	108	4384	0.369	ug/ml	93
20) Nitrobenzene	6.969	77	5251	0.407	ug/ml	93
21) Isophorone	7.251	82	9582	0.388	ug/ml	96
22) 2-Nitrophenol	7.328	139	1836	0.356	ug/ml#	95
23) 2,4-Dimethylphenol	7.434	107	4816	0.377	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.528	93	5788	0.374	ug/ml	91
25) 2,4-Dichlorophenol	7.592	162	3831	0.358	ug/ml	91
26) 1,2,4-Trichlorobenzene	7.675	180	4840	0.393	ug/ml	91
35) Naphthalene	7.734	128	15151	0.388	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	7.828	65	1726	0.338	ug/ml#	57
38) Hexachlorobutadiene	7.910	225	3254	0.409	ug/ml	94
39) p-Chloro-m-cresol	8.357	107	4005	0.355	ug/ml	93
40) 2-Methylnaphthalene	8.457	142	9830	0.396	ug/ml	97
41) 1-Methylnaphthalene	8.551	115	3759	0.404	ug/ml	75
42) Hexachlorocyclopentadiene	8.633	237	3137	0.370	ug/ml#	92
43) 2,4,6-Trichlorophenol	8.757	196	2850	0.353	ug/ml	98
44) 2,4,5-Trichlorophenol	8.781	196	2962	0.341	ug/ml	98
46) 2-Chloronaphthalene	8.933	162	9911	0.383	ug/ml	96
47) 2-Nitroaniline	9.045	138	2051	0.715	ug/ml	94
48) 1,4-Dinitrobenzene	9.180	168	970	1.158	ug/ml#	76
49) 1,3-Dinitrobenzene	9.257	168	873	1.134	ug/ml#	1
50) Dimethyl phthalate	9.257	163	11124	0.365	ug/ml#	90
51) Acenaphthylene	9.333	152	15566	0.374	ug/ml	97
52) 2,6-Dinitrotoluene	9.298	165	1470	0.618	ug/ml	97
53) 1,2-Dinitrobenzene	9.339	168	661	0.270	ug/ml#	1
63) 3-Nitroaniline	9.451	138	1797	0.304	ug/ml#	61
64) Acenaphthene	9.504	154	9516	0.408	ug/ml	94
65) 2,4-Dinitrophenol	9.551	184	534	1.283	ug/ml#	25
66) Dibenzofuran	9.675	168	14489	0.415	ug/ml	99
67) 2,4-Dinitrotoluene	9.686	165	1920	0.707	ug/ml#	65
68) 4-Nitrophenol	9.639	65	1417	0.670	ug/ml#	79
69) 2,3,5,6-Tetrachlorophenol	9.769	232	2145	0.320	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.810	232	2456	0.353	ug/ml	93
71) Diethyl phthalate	9.945	149	11593	0.397	ug/ml	97
72) Fluorene	10.010	166	10989	0.398	ug/ml	97
73) 4-Chlorophenyl phenyl ...	10.033	204	5577	0.424	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL2.D
Acq On : 2 Sep 2023 3:23 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.4 Lot# 10170
Misc : WG1823680,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 11:14:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:12 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	10.039	138	2120	0.355	ug/ml#	84
75) 4,6-Dinitro-o-cresol	10.075	198	699	1.327	ug/ml#	1
76) NDPA/DPA	10.145	169	8919	0.384	ug/ml	93
77) Azobenzene	10.180	77	11113	0.408	ug/ml	94
79) 4-Bromophenyl phenyl e...	10.498	248	3185	0.416	ug/ml	88
80) Hexachlorobenzene	10.545	284	3664	0.411	ug/ml#	80
81) Pentachlorophenol	10.739	266	1227	0.660	ug/ml#	83
88) Phenanthrene	10.927	178	18603	0.407	ug/ml	98
89) Anthracene	10.974	178	16832	0.370	ug/ml	96
90) Carbazole	11.145	167	16047	0.386	ug/ml	97
91) Di-n-butylphthalate	11.545	149	18827	0.354	ug/ml#	97
92) Fluoranthene	12.074	202	17982M3	0.368	ug/ml	
93) Benzidine	12.233	184	10765	0.333	ug/ml#	94
94) Pyrene	12.292	202	19858	0.384	ug/ml	98
96) Butyl benzyl phthalate	13.010	149	6807	0.300	ug/ml	96
104) Benzo(a)anthracene	13.510	228	19349	0.400	ug/ml	97
105) 3,3'-Dichlorobenzidine	13.515	252	5903	0.343	ug/ml#	97
106) Chrysene	13.545	228	18127	0.404	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.645	149	10941	0.337	ug/ml#	93
108) Di-n-octylphthalate	14.315	149	18156	0.332	ug/ml#	76
109) Benzo(b)fluoranthene	14.604	252	16564	0.358	ug/ml	96
110) Benzo(k)fluoranthene	14.627	252	18087M3	0.408	ug/ml	
111) Benzo(a)pyrene	14.910	252	14370	0.363	ug/ml	97
113) Indeno(1,2,3-cd)pyrene	15.927	276	13711M6	0.359	ug/mL	
114) Dibenzo(a,h)anthracene	15.951	278	15021	0.367	ug/ml	98
115) Benzo(ghi)perylene	16.156	276	15738	0.388	ug/ml#	89

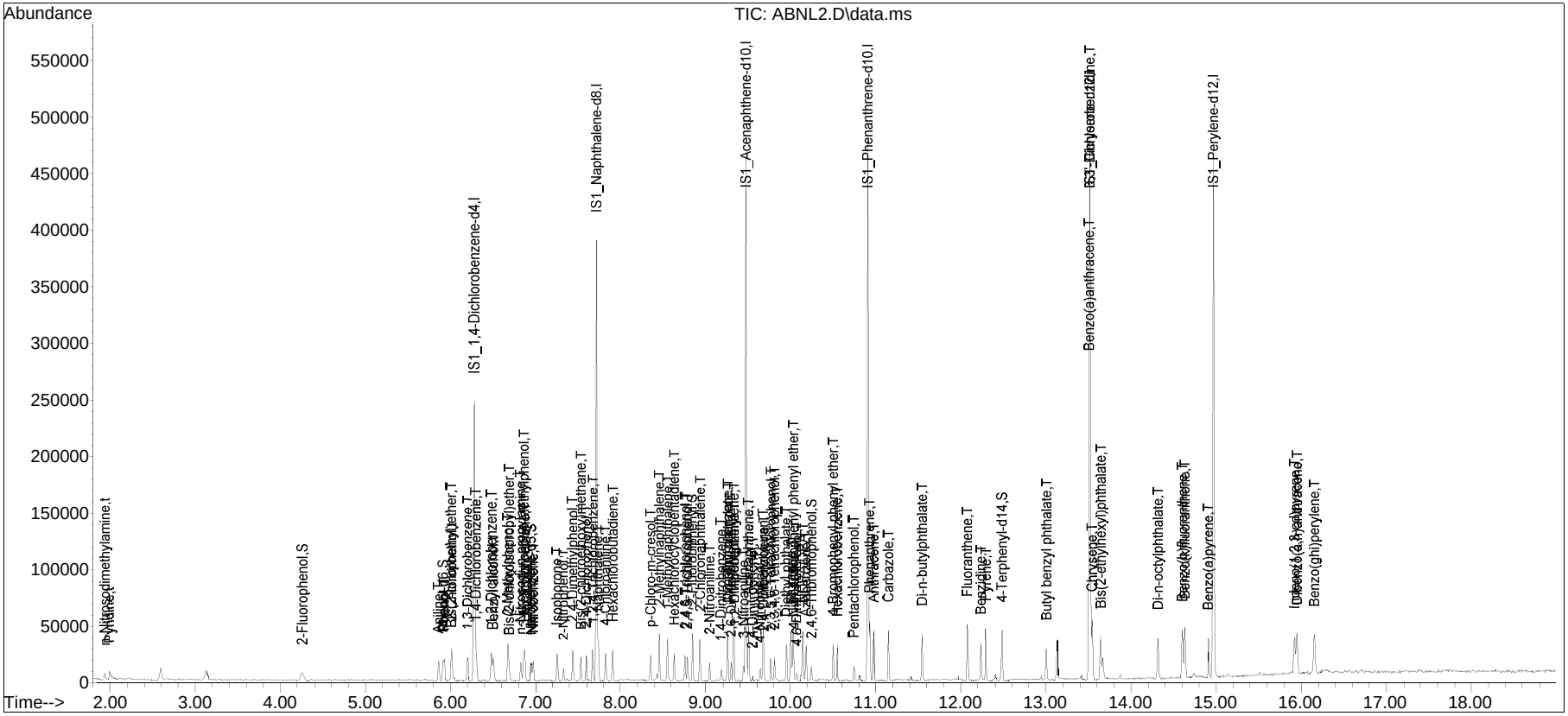
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL2.D
Acq On : 2 Sep 2023 3:23 pm
Operator : SV106:ljg
Sample : IL9,32,,ABNL0.4 Lot# 10170
Misc : WG1823680,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 11:14:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:14:12 2023
Response via : Initial Calibration

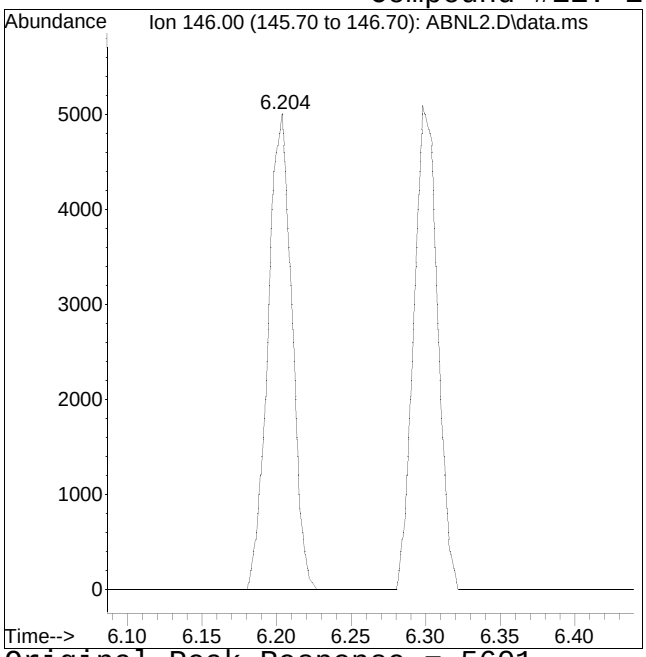
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•

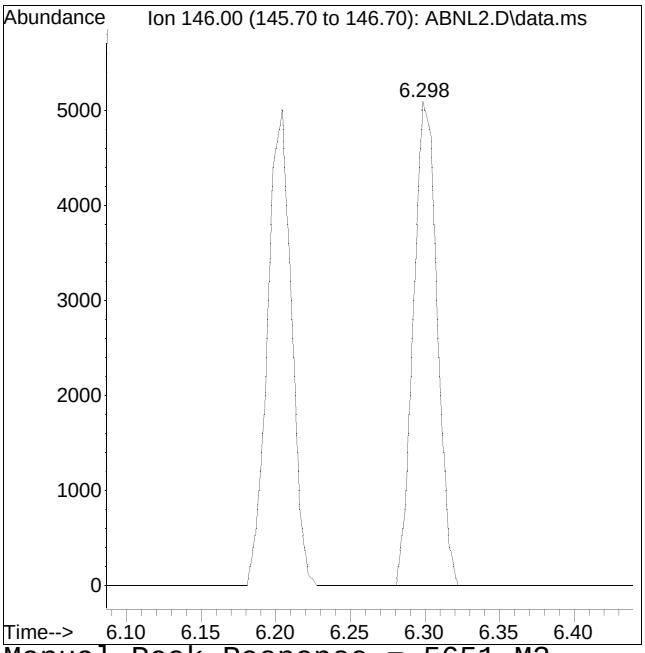


Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:23 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.4 Lot# 10170Quant Date : 9/5/2023 11:14 am

Compound #11: 1,4-Dichlorobenzene





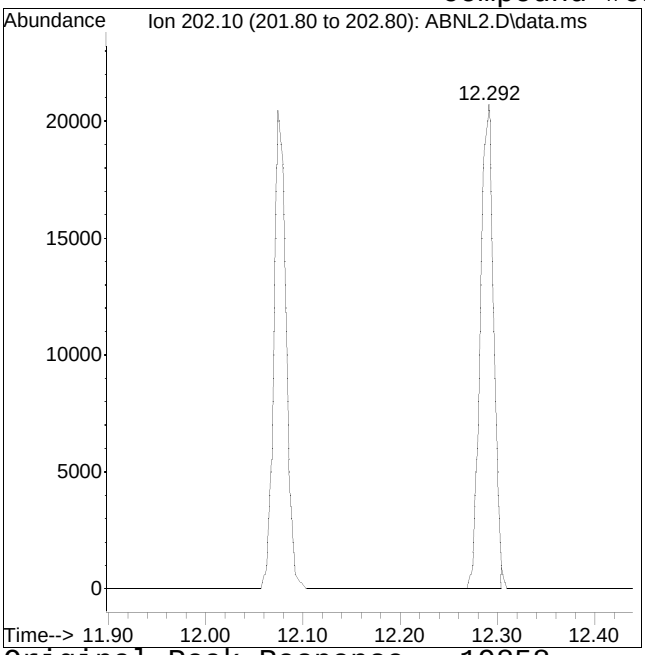
Original Peak Response = 5601 Manual Peak Response = 5651 M3

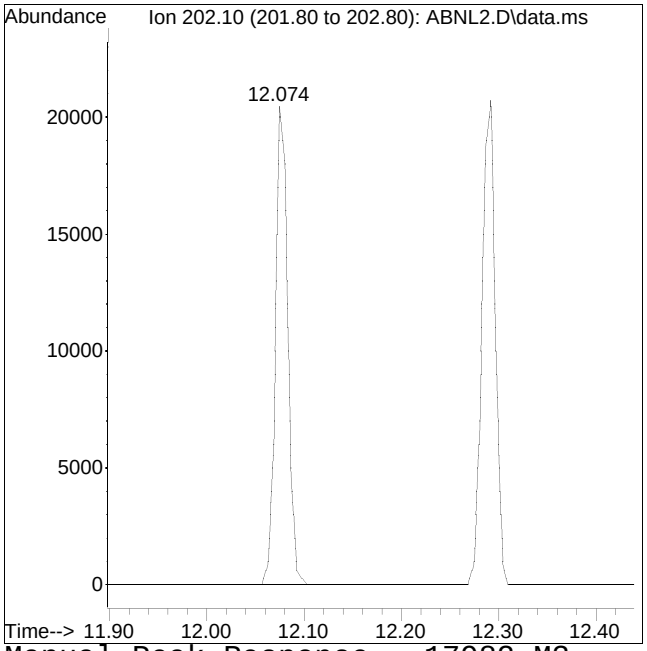
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:23 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.4 Lot# 10170Quant Date : 9/5/2023 11:14 am

Compound #92: Fluoranthene



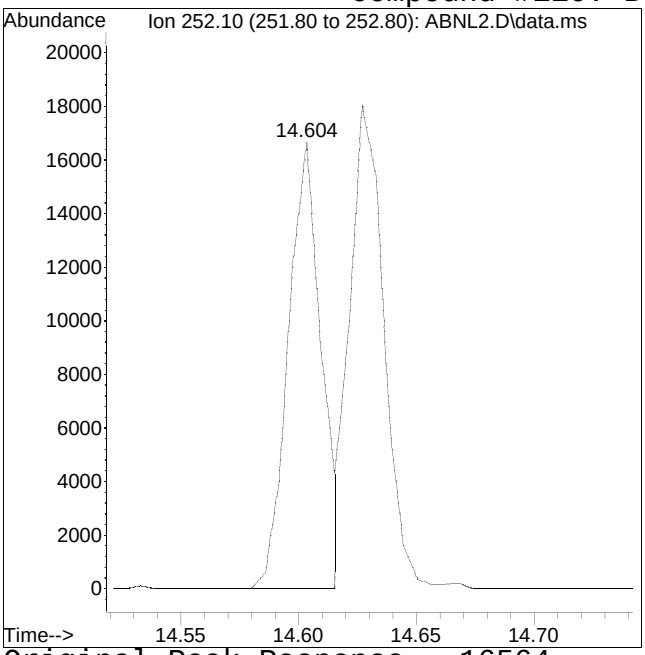


Original Peak Response = 19858 Manual Peak Response = 17982 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

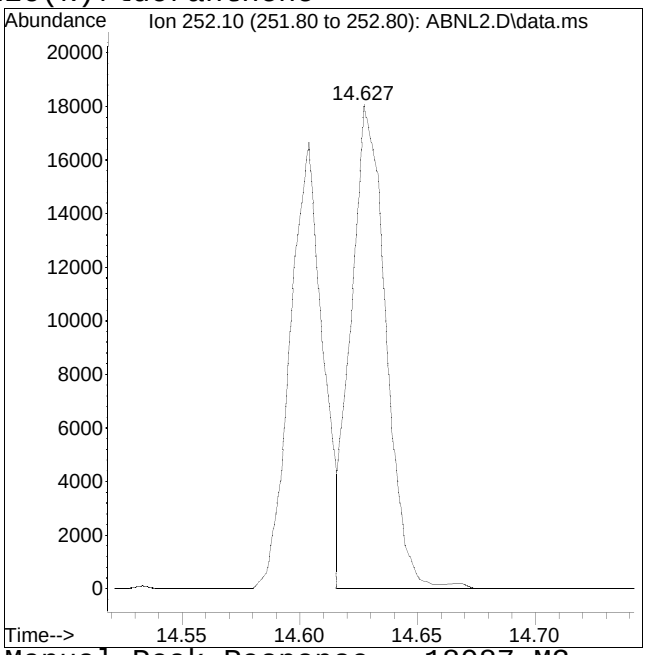
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:23 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.4 Lot# 10170Quant Date : 9/5/2023 11:14 am

Compound #110: Benzo(k)fluoranthene



Original Peak Response = 16564



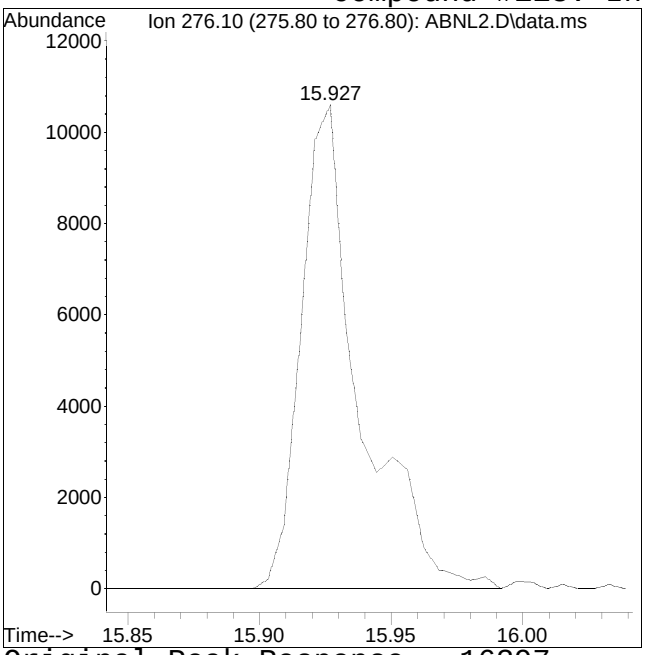
Manual Peak Response = 18087 M3

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

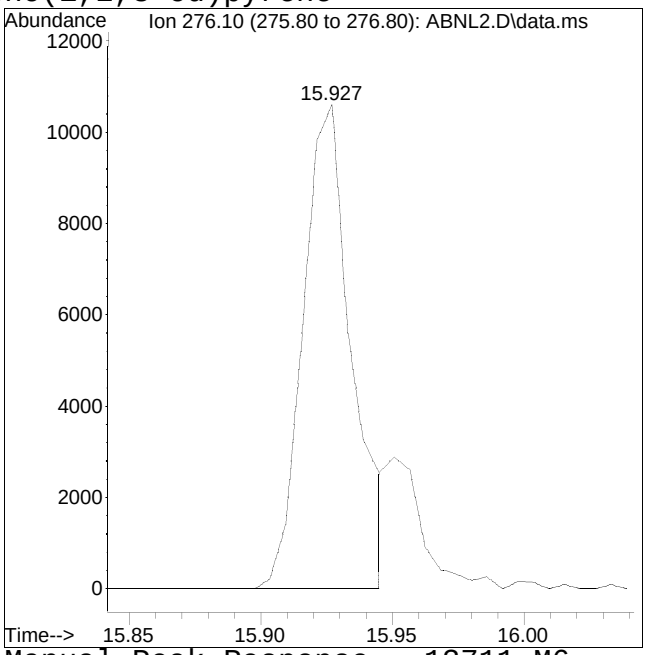
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL2.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:23 pm Instrument : SV 106
Sample : IL9,32,,ABNL0.4 Lot# 10170Quant Date : 9/5/2023 11:14 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 16397



Manual Peak Response = 13711 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL1.D
Acq On : 2 Sep 2023 3:47 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.2 Lot# 10171
Misc : WG1823680,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 11:13:59 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:54 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.281	152	47115	4.000 ug/ml	0.00
Standard Area 1 = 43113			Recovery = 109.28%		
34) IS1_Naphthalene-d8	7.716	136	177047	4.000 ug/ml	# 0.00
Standard Area 1 = 167432			Recovery = 105.74%		
62) IS1_Acenaphthene-d10	9.475	164	97401	4.000 ug/ml	0.00
Standard Area 1 = 93119			Recovery = 104.60%		
87) IS1_Phenanthrene-d10	10.904	188	193756	4.000 ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 107.92%		
103) IS1_Chrysene-d12	13.515	240	168051	4.000 ug/ml	0.00
Standard Area 1 = 164850			Recovery = 101.94%		
112) IS1_Perylene-d12	14.968	264	186728	4.000 ug/ml	0.00
Standard Area 1 = 183060			Recovery = 102.00%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.245	112	2562	0.195 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 3.90%#		
7) Phenol-d6	5.910	99	3120	0.184 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 3.68%#		
19) Nitrobenzene-d5	6.945	82	3178	0.207 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 8.28%#		
45) 2-Fluorobiphenyl	8.839	172	7396	0.219 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 8.76%#		
78) 2,4,6-Tribromophenol	10.239	330	764	0.171 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 3.42%#		
95) 4-Terphenyl-d14	12.486	244	8108	0.191 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 7.64%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	0.000		0	N.D. d	
3) Pyridine	2.010	79	2483	0.183 ug/ml#	68
5) Aniline	5.869	93	4329	0.194 ug/ml	95
6) 2-Chlorophenol	6.016	128	2871	0.191 ug/ml#	88
8) Phenol	5.928	94	3708	0.207 ug/ml	94
9) Bis(2-chloroethyl)ether	6.004	93	3165	0.220 ug/ml	93
10) 1,3-Dichlorobenzene	6.198	146	3564	0.207 ug/ml	96
11) 1,4-Dichlorobenzene	6.304	146	4143	0.234 ug/ml	94
12) 1,2-Dichlorobenzene	6.481	146	3635	0.216 ug/ml	96
13) Benzyl alcohol	6.498	79	2509	0.198 ug/ml	97
14) Bis(2-chloroisopropyl)...	6.686	45	4168	0.197 ug/ml#	45

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL1.D
Acq On : 2 Sep 2023 3:47 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.2 Lot# 10171
Misc : WG1823680,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 11:13:59 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:54 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	2502	0.187	ug/ml	91
16) Hexachloroethane	6.875	117	1389	0.201	ug/ml#	74
17) n-Nitrosodi-n-propylamine	6.828	70	2285	0.210	ug/ml#	59
18) 3-Methylphenol/4-Methy...	6.863	108	2508	0.178	ug/ml#	96
20) Nitrobenzene	6.969	77	2763	0.181	ug/ml#	81
21) Isophorone	7.257	82	5745	0.197	ug/ml#	91
22) 2-Nitrophenol	7.328	139	1114	0.183	ug/ml#	84
23) 2,4-Dimethylphenol	7.433	107	2976	0.197	ug/ml	89
24) Bis(2-chloroethoxy)met...	7.528	93	3940	0.215	ug/ml#	89
25) 2,4-Dichlorophenol	7.592	162	2293	0.181	ug/ml#	88
26) 1,2,4-Trichlorobenzene	7.675	180	2894	0.199	ug/ml#	83
35) Naphthalene	7.739	128	9259	0.207	ug/ml#	95
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	7.822	65	1300	0.222	ug/ml	94
38) Hexachlorobutadiene	7.910	225	2065	0.227	ug/ml	90
39) p-Chloro-m-cresol	8.357	107	2277	0.176	ug/ml	96
40) 2-Methylnaphthalene	8.457	142	5588M3	0.197	ug/ml	
41) 1-Methylnaphthalene	8.551	115	1925	0.181	ug/ml	99
42) Hexachlorocyclopentadiene	8.633	237	1877	0.193	ug/ml#	83
43) 2,4,6-Trichlorophenol	8.757	196	1723	0.187	ug/ml	86
44) 2,4,5-Trichlorophenol	8.786	196	2040M3	0.205	ug/ml	
46) 2-Chloronaphthalene	8.933	162	6063	0.205	ug/ml	99
47) 2-Nitroaniline	9.051	138	1074	0.574	ug/ml#	81
48) 1,4-Dinitrobenzene	9.180	168	574	1.029	ug/ml	98
49) 1,3-Dinitrobenzene	9.251	168	729	1.079	ug/ml#	1
50) Dimethyl phthalate	9.257	163	7331	0.210	ug/ml#	94
51) Acenaphthylene	9.333	152	9825	0.206	ug/ml	97
52) 2,6-Dinitrotoluene	9.292	165	830	0.500	ug/ml	94
53) 1,2-Dinitrobenzene	9.339	168	464M3	0.165	ug/ml	
63) 3-Nitroaniline	9.451	138	942	0.135	ug/ml#	77
64) Acenaphthene	9.504	154	6065	0.220	ug/ml	95
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.674	168	8240	0.200	ug/ml	96
67) 2,4-Dinitrotoluene	9.680	165	1115	0.589	ug/ml#	61
68) 4-Nitrophenol	9.645	65	904	0.564	ug/ml#	83
69) 2,3,5,6-Tetrachlorophenol	9.769	232	1439	0.182	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	9.810	232	1700M3	0.207	ug/ml	
71) Diethyl phthalate	9.951	149	6790	0.197	ug/ml#	97
72) Fluorene	10.010	166	6534	0.201	ug/ml	92
73) 4-Chlorophenyl phenyl ...	10.033	204	3339	0.215	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL1.D
Acq On : 2 Sep 2023 3:47 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.2 Lot# 10171
Misc : WG1823680,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 11:13:59 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:54 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	10.039	138	1118	0.159	ug/ml#	88
75)	4,6-Dinitro-o-cresol	10.074	198	349M2	1.236	ug/ml	
76)	NDPA/DPA	10.145	169	5441	0.199	ug/ml	93
77)	Azobenzene	10.180	77	6764	0.211	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.498	248	1983	0.220	ug/ml#	87
80)	Hexachlorobenzene	10.545	284	2477	0.236	ug/ml#	89
81)	Pentachlorophenol	10.739	266	637	0.542	ug/ml#	19
88)	Phenanthrene	10.927	178	11198M3	0.212	ug/ml	
89)	Anthracene	10.974	178	10597	0.202	ug/ml	95
90)	Carbazole	11.145	167	8499	0.177	ug/ml#	95
91)	Di-n-butylphthalate	11.545	149	11599	0.189	ug/ml#	98
92)	Fluoranthene	12.074	202	11243M3	0.199	ug/ml	
93)	Benzidine	12.233	184	6351	0.170	ug/ml#	85
94)	Pyrene	12.286	202	11668	0.195	ug/ml	98
96)	Butyl benzyl phthalate	13.010	149	4140	0.158	ug/ml	97
104)	Benzo(a)anthracene	13.510	228	12297	0.221	ug/ml	97
105)	3,3'-Dichlorobenzidine	13.515	252	3600	0.182	ug/ml#	93
106)	Chrysene	13.545	228	11695	0.226	ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.645	149	6101	0.163	ug/ml#	96
108)	Di-n-octylphthalate	14.315	149	10113	0.161	ug/ml#	77
109)	Benzo(b)fluoranthene	14.604	252	10734	0.202	ug/ml#	92
110)	Benzo(k)fluoranthene	14.627	252	10791	0.212	ug/ml#	93
111)	Benzo(a)pyrene	14.915	252	8872	0.195	ug/ml	99
113)	Indeno(1,2,3-cd)pyrene	15.927	276	8556M1	0.196	ug/mL	
114)	Dibenzo(a,h)anthracene	15.951	278	8390	0.180	ug/ml	93
115)	Benzo(ghi)perylene	16.156	276	9050	0.196	ug/ml	93

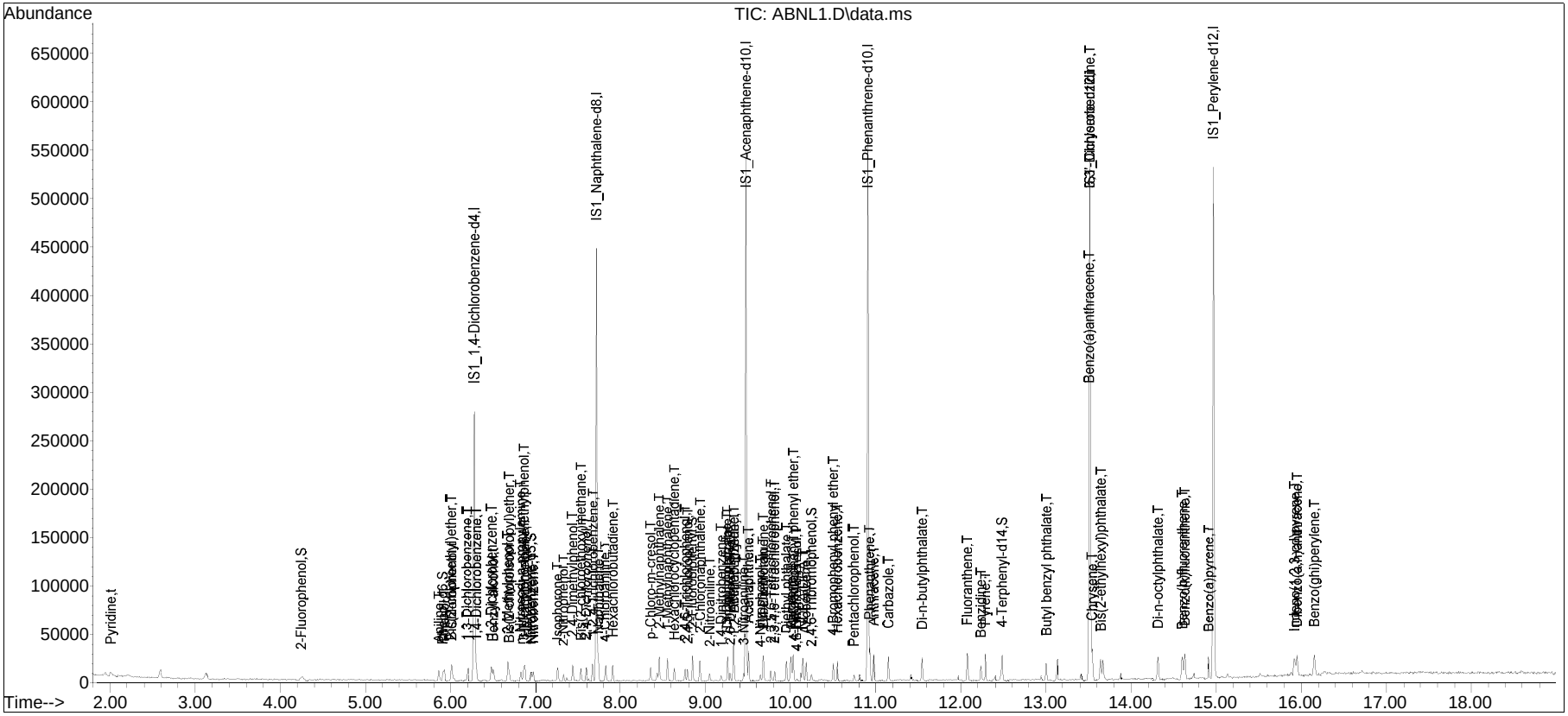
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNL1.D
Acq On : 2 Sep 2023 3:47 pm
Operator : SV106:ljg
Sample : IL10,32,,ABNL0.2 Lot# 10171
Misc : WG1823680,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 11:13:59 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:54 2023
Response via : Initial Calibration

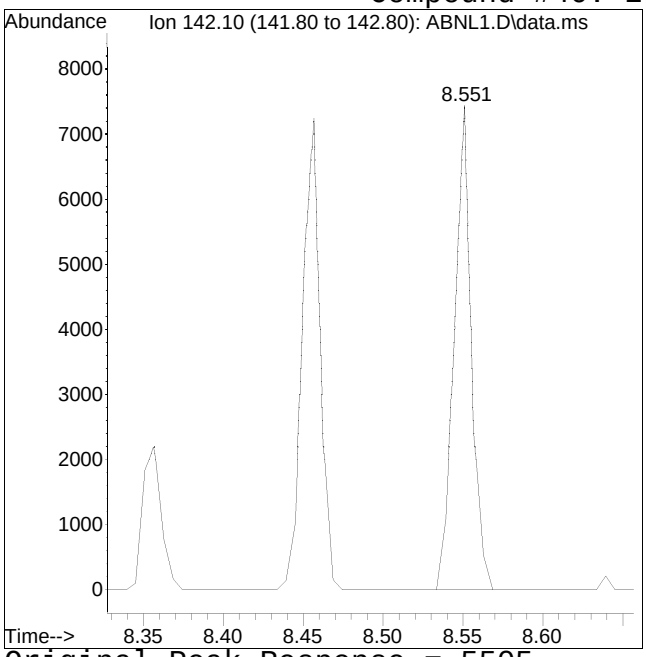
Sub List : ABNical - ABN ical sublistiical\ABNL6.D•

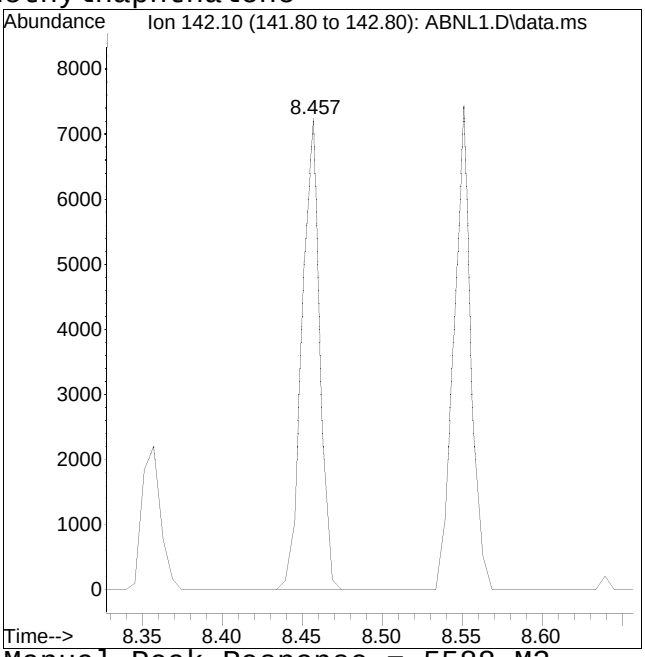


Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #40: 2-Methylnaphthalene





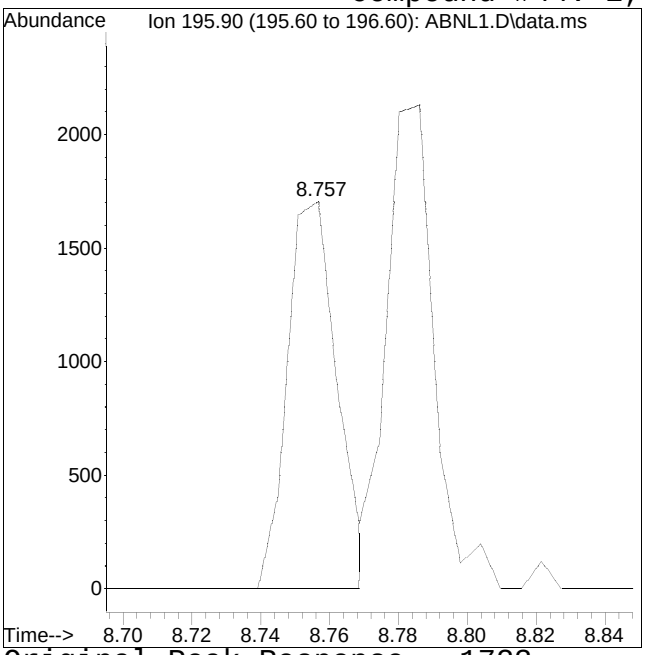
Original Peak Response = 5505 Manual Peak Response = 5588 M3

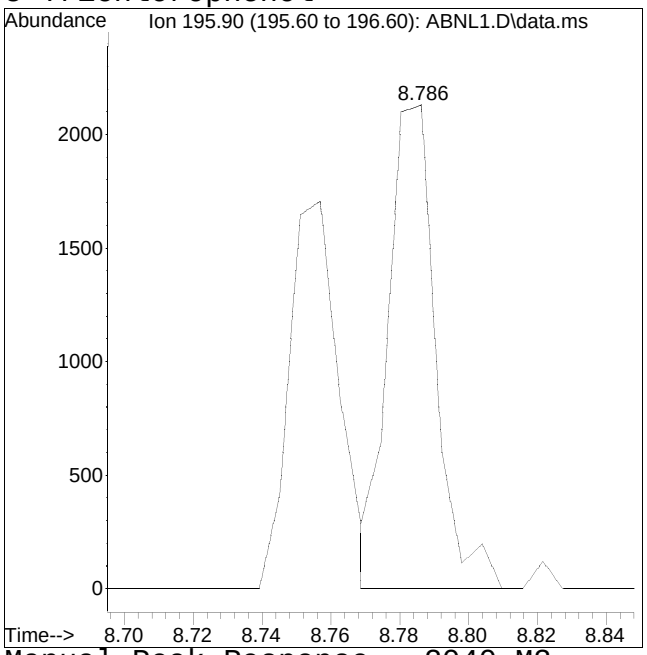
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #44: 2,4,5-Trichlorophenol





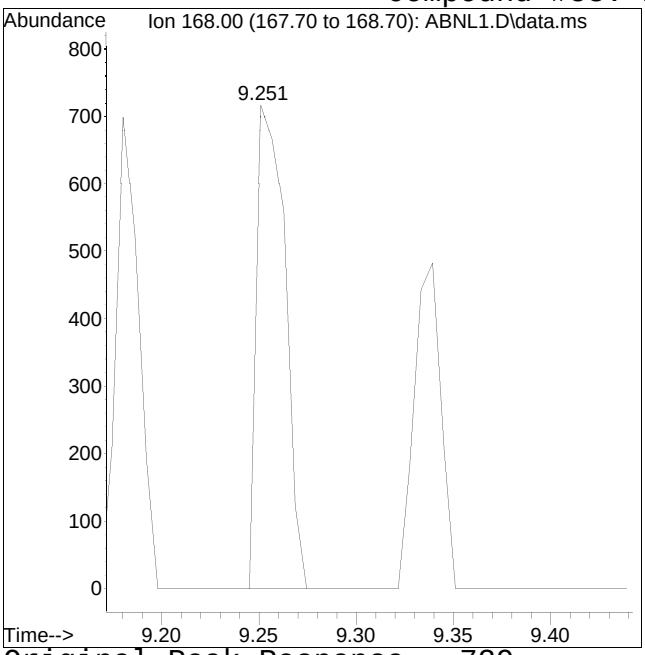
Original Peak Response = 1723 Manual Peak Response = 2040 M3

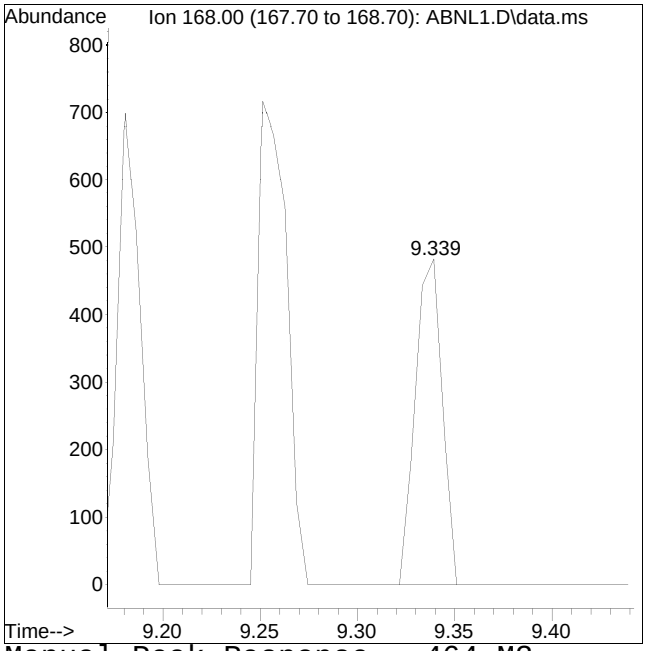
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #53: 1,2-Dinitrobenzene





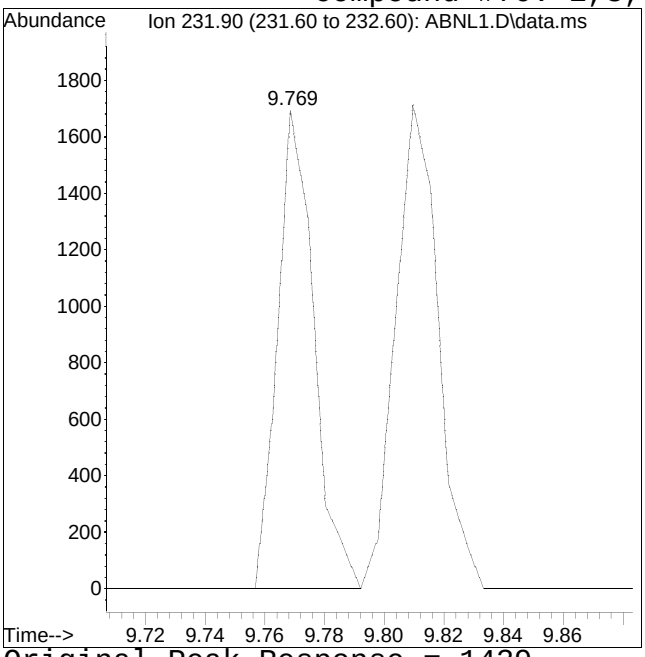
Original Peak Response = 729 Manual Peak Response = 464 M3

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

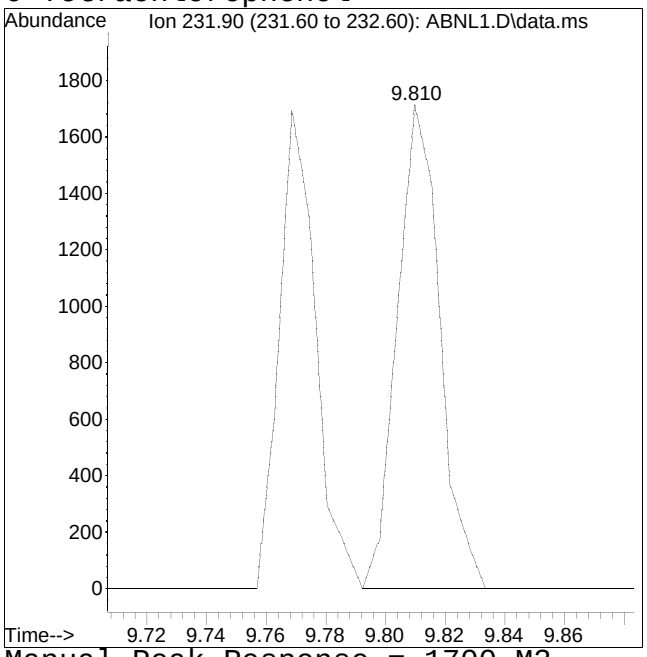
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #70: 2,3,4,6-Tetrachlorophenol



Original Peak Response = 1439



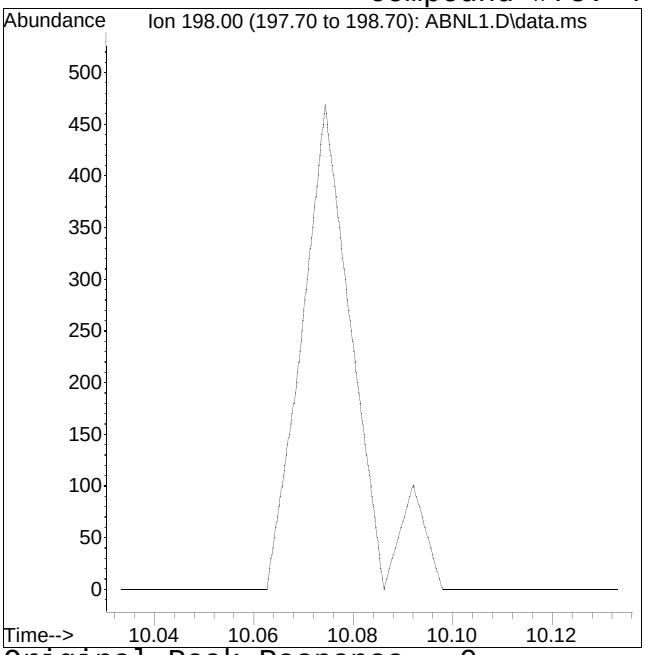
Manual Peak Response = 1700 M3

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

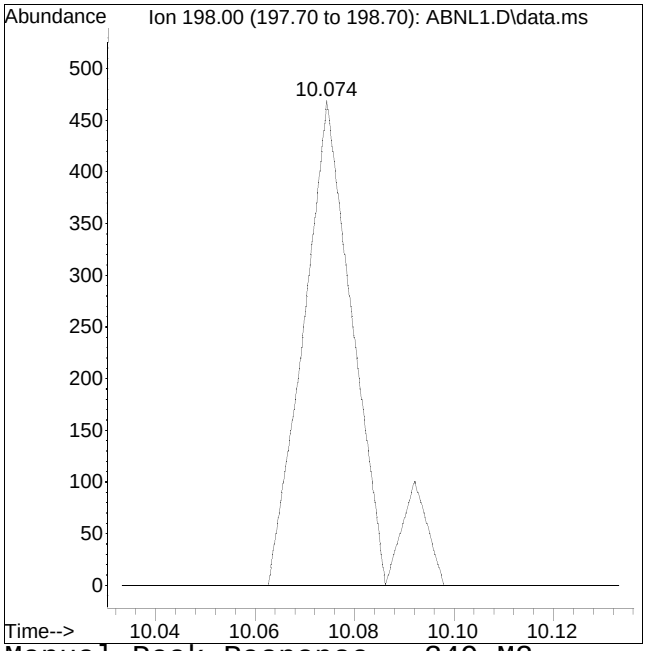
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #75: 4,6-Dinitro-o-cresol



Original Peak Response = 0



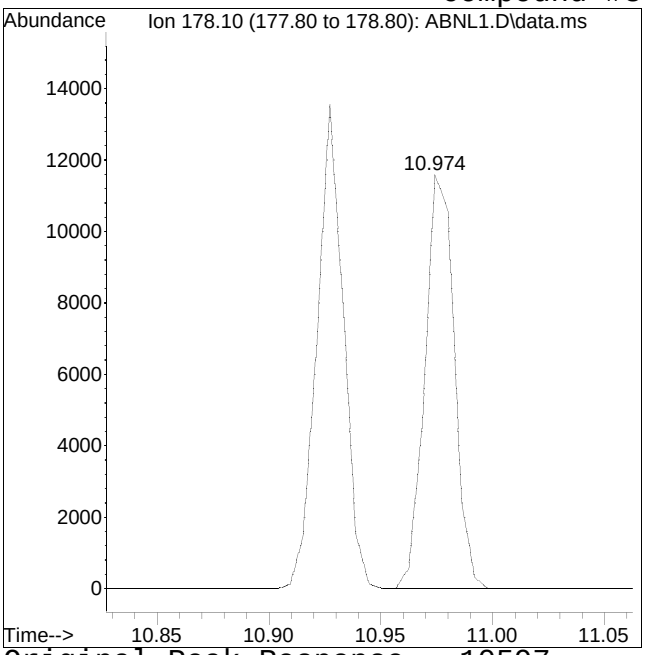
Manual Peak Response = 349 M2

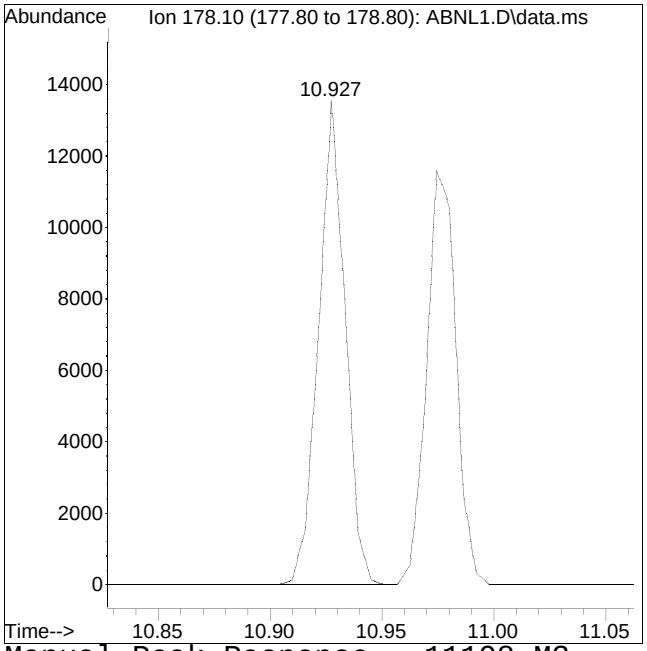
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #88: Phenanthrene



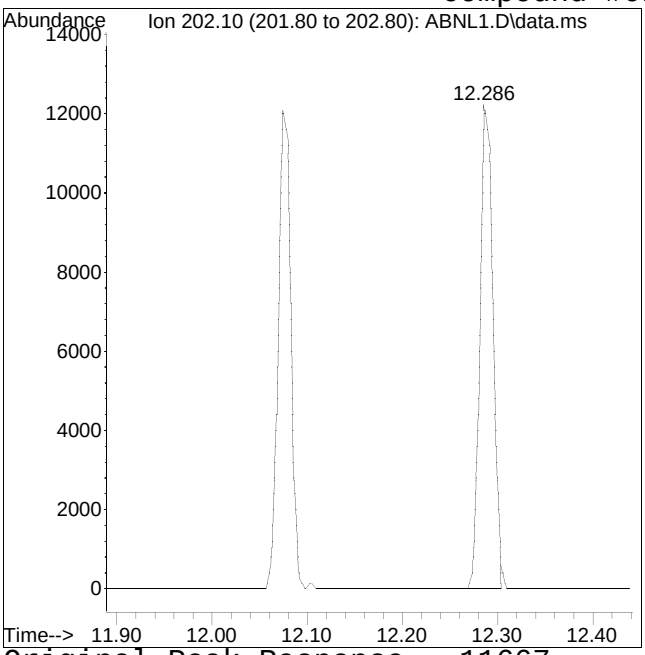


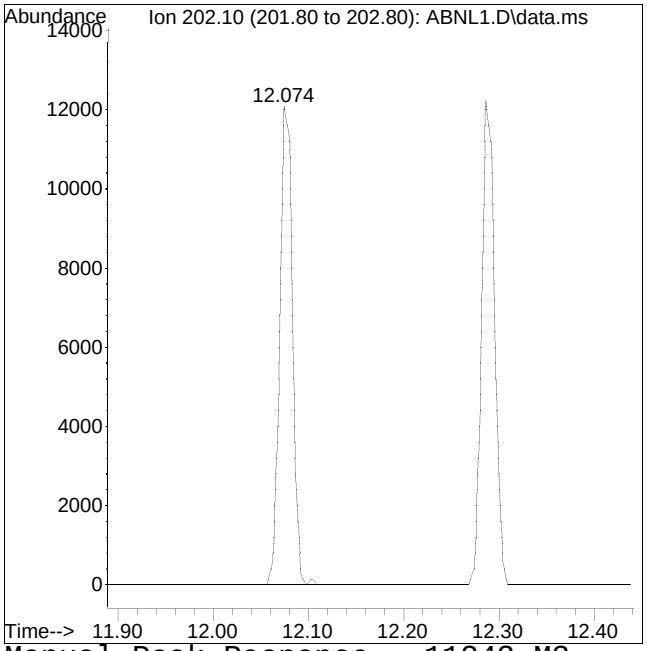
Original Peak Response = 10597 Manual Peak Response = 11198 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #92: Fluoranthene



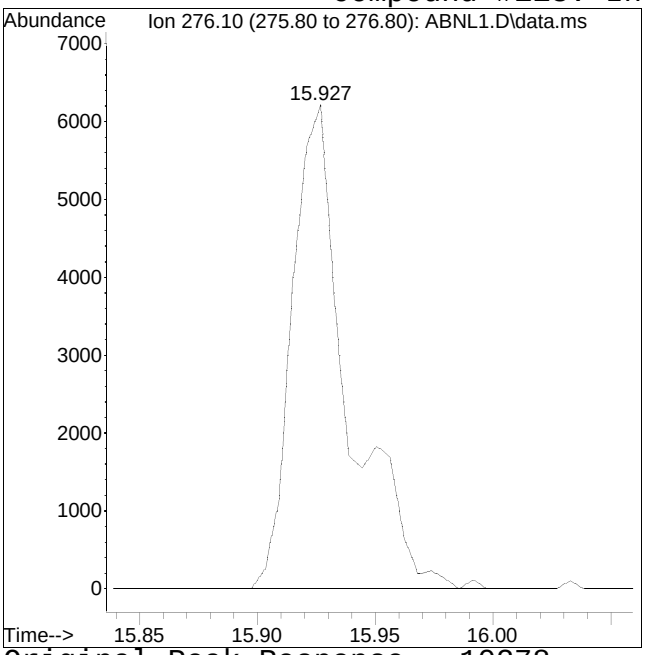


Original Peak Response = 11667 Manual Peak Response = 11243 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

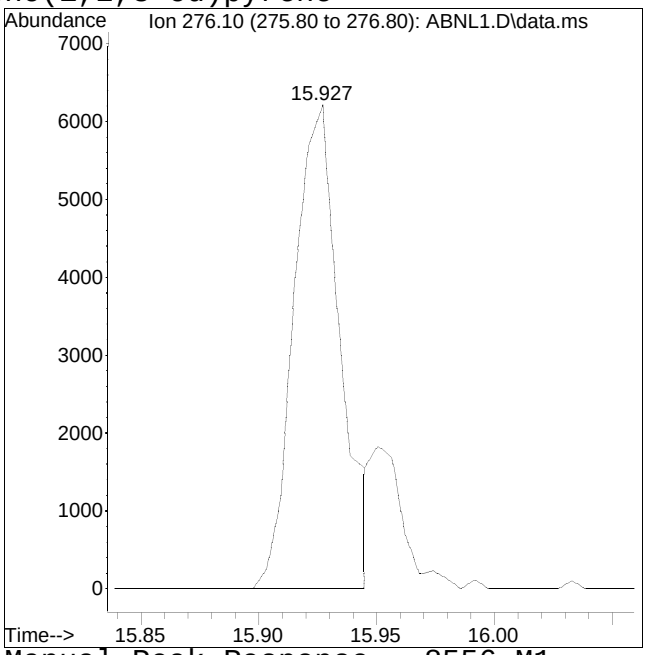
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNL1.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 3:47 pm Instrument : SV 106
Sample : IL10,32,,ABNL0.2 Lot# 1017Quant Date : 9/5/2023 11:13 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 10278



Manual Peak Response = 8556 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L10.D
Acq On : 2 Sep 2023 4:10 pm
Operator : SV106:ljg
Sample : IL1,32,,AP9L50 Lot# 10078
Misc : WG1823680,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 11:17:39 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:30 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.281	152	45275	4.000	ug/ml	0.00
Standard Area 1 = 44570			Recovery =	101.58%		
54) IS2_Naphthalene-d8	7.716	136	176312	4.000	ug/ml	0.00
Standard Area 1 = 169751			Recovery =	103.87%		
82) IS2_Acenaphthene-d10	9.474	164	97512	4.000	ug/ml	0.00
Standard Area 1 = 90319			Recovery =	107.96%		
97) IS2_Phenanthrene-d10	10.904	188	187379	4.000	ug/ml #	0.00
Standard Area 1 = 182619			Recovery =	102.61%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.686	105	445512	49.797	ug/ml	96
29) Acetophenone	6.786	105	1078851	47.799	ug/ml#	79
30) m-Toluidine	6.886	106	825985	47.087	ug/ml	96
31) 2-Chloroaniline	7.292	127	908829	48.068	ug/ml#	93
55) a-Terpineol	7.798	59	606728	47.676	ug/ml#	76
56) 3-Chloroaniline	7.810	65	304126	45.877	ug/ml	87
57) 2,6-Dichlorophenol	7.833	162	621902	51.006	ug/ml#	89
58) 1-chloro-2-nitrobenzene	8.098	111	297021	51.418	ug/ml#	1
59) Caprolactam	8.163	55	335868	51.965	ug/ml#	69
60) 1,2,4,5-Tetrachloroben...	8.633	216	707897	46.163	ug/ml	99
61) Biphenyl	8.933	154	1766718	46.834	ug/ml	100
83) Dichloran	10.610	206	195928	49.484	ug/ml	88
84) Pentachloronitrobenzene	10.757	237	215251	49.570	ug/ml#	83
98) Diphenamid	11.821	167	1261499	53.005	ug/ml	85

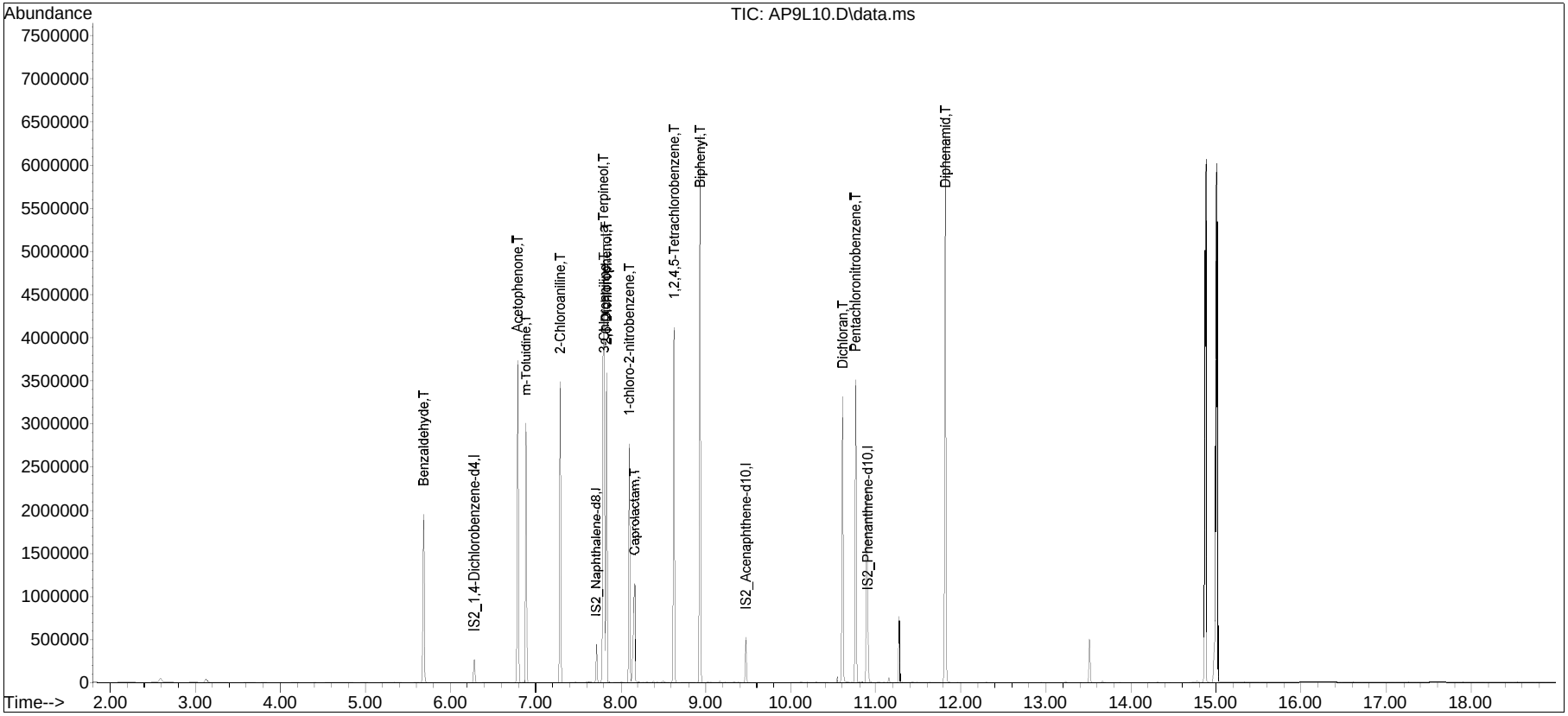
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L10.D
Acq On : 2 Sep 2023 4:10 pm
Operator : SV106:ljg
Sample : IL1,32,,AP9L50 Lot# 10078
Misc : WG1823680,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 05 11:17:39 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:30 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L10.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 4:10 pm	Instrument	: SV 106
Sample	: IL1,32,,AP9L50 Lot# 10078	Quant Date	: 9/5/2023 11:17 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L9.D
Acq On : 2 Sep 2023 4:34 pm
Operator : SV106:ljg
Sample : IL2,32,,AP9L35 Lot# 10080
Misc : WG1823680,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 05 11:19:04 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:55 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.281	152	48158	4.000	ug/ml	0.00
Standard Area 1 = 44570			Recovery =	108.05%		
54) IS2_Naphthalene-d8	7.716	136	180345	4.000	ug/ml	0.00
Standard Area 1 = 169751			Recovery =	106.24%		
82) IS2_Acenaphthene-d10	9.475	164	99510	4.000	ug/ml	0.00
Standard Area 1 = 90319			Recovery =	110.18%		
97) IS2_Phenanthrene-d10	10.904	188	196438	4.000	ug/ml #	0.00
Standard Area 1 = 182619			Recovery =	107.57%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.687	105	311762	32.529	ug/ml	96
29) Acetophenone	6.787	105	793417	33.048	ug/ml#	79
30) m-Toluidine	6.887	106	582470	31.217	ug/ml	96
31) 2-Chloroaniline	7.292	127	665233	33.078	ug/ml	94
55) a-Terpineol	7.798	59	447990	34.415	ug/ml#	77
56) 3-Chloroaniline	7.804	65	221394	32.650	ug/ml	88
57) 2,6-Dichlorophenol	7.834	162	450078	36.088	ug/ml	91
58) 1-chloro-2-nitrobenzene	8.098	111	218958	37.056	ug/ml#	1
59) Caprolactam	8.157	55	252480	38.190	ug/ml#	70
60) 1,2,4,5-Tetrachloroben...	8.633	216	524192	33.419	ug/ml	98
61) Biphenyl	8.933	154	1283400	33.261	ug/ml	99
83) Dichloran	10.610	206	146137	36.436	ug/ml#	84
84) Pentachloronitrobenzene	10.757	237	159013	35.970	ug/ml#	83
98) Diphenamid	11.821	167	913041	36.595	ug/ml	85

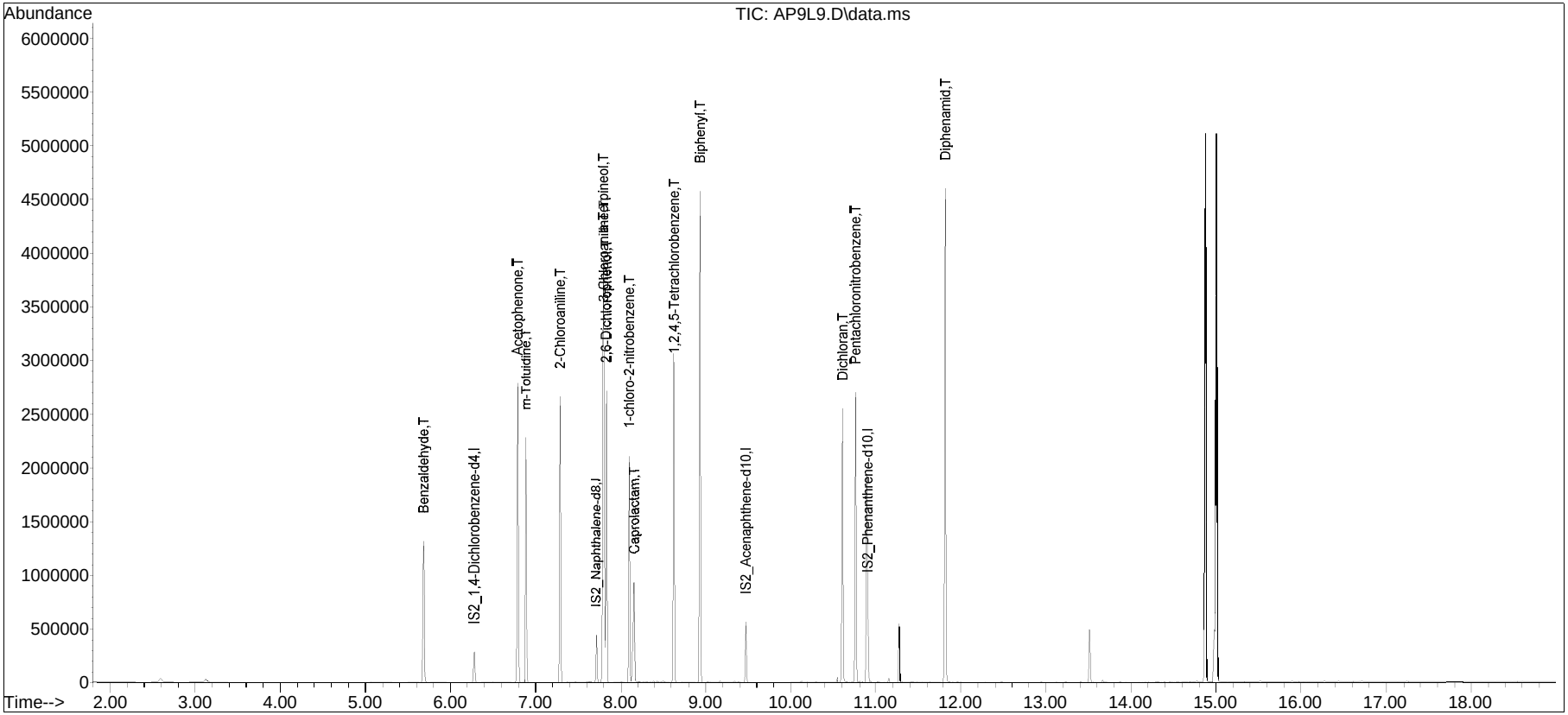
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L9.D
Acq On : 2 Sep 2023 4:34 pm
Operator : SV106:ljg
Sample : IL2,32,,AP9L35 Lot# 10080
Misc : WG1823680,,ical
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 05 11:19:04 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:55 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L9.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 4:34 pm	Instrument	: SV 106
Sample	: IL2,32,,AP9L35 Lot# 10080	Quant Date	: 9/5/2023 11:18 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L8.D
Acq On : 2 Sep 2023 4:58 pm
Operator : SV106:ljg
Sample : IL3,32,,AP9L15 Lot# 10081
Misc : WG1823680,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 05 11:18:52 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:44 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.281	152	47695	4.000	ug/ml		0.00
Standard Area 1 = 44570			Recovery =	107.01%			
54) IS2_Naphthalene-d8	7.716	136	180394	4.000	ug/ml		0.00
Standard Area 1 = 169751			Recovery =	106.27%			
82) IS2_Acenaphthene-d10	9.474	164	100461	4.000	ug/ml		0.00
Standard Area 1 = 90319			Recovery =	111.23%			
97) IS2_Phenanthrene-d10	10.904	188	197228	4.000	ug/ml	#	0.00
Standard Area 1 = 182619			Recovery =	108.00%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.686	105	143247	14.728	ug/ml		97
29) Acetophenone	6.786	105	323729	13.615	ug/ml	#	80
30) m-Toluidine	6.886	106	256365	13.873	ug/ml		95
31) 2-Chloroaniline	7.292	127	276428	13.878	ug/ml		94
55) a-Terpineol	7.792	59	181511	13.940	ug/ml	#	77
56) 3-Chloroaniline	7.804	65	93871	13.840	ug/ml		87
57) 2,6-Dichlorophenol	7.833	162	182547	14.633	ug/ml	#	90
58) 1-chloro-2-nitrobenzene	8.098	111	88077	14.902	ug/ml	#	1
59) Caprolactam	8.139	55	99856	15.100	ug/ml	#	71
60) 1,2,4,5-Tetrachloroben...	8.627	216	213797	13.627	ug/ml		99
61) Biphenyl	8.933	154	530868	13.754	ug/ml		99
83) Dichloran	10.610	206	52291	13.559	ug/ml		88
84) Pentachloronitrobenzene	10.757	237	62096	14.105	ug/ml	#	81
98) Diphenamid	11.821	167	361777	14.442	ug/ml		85

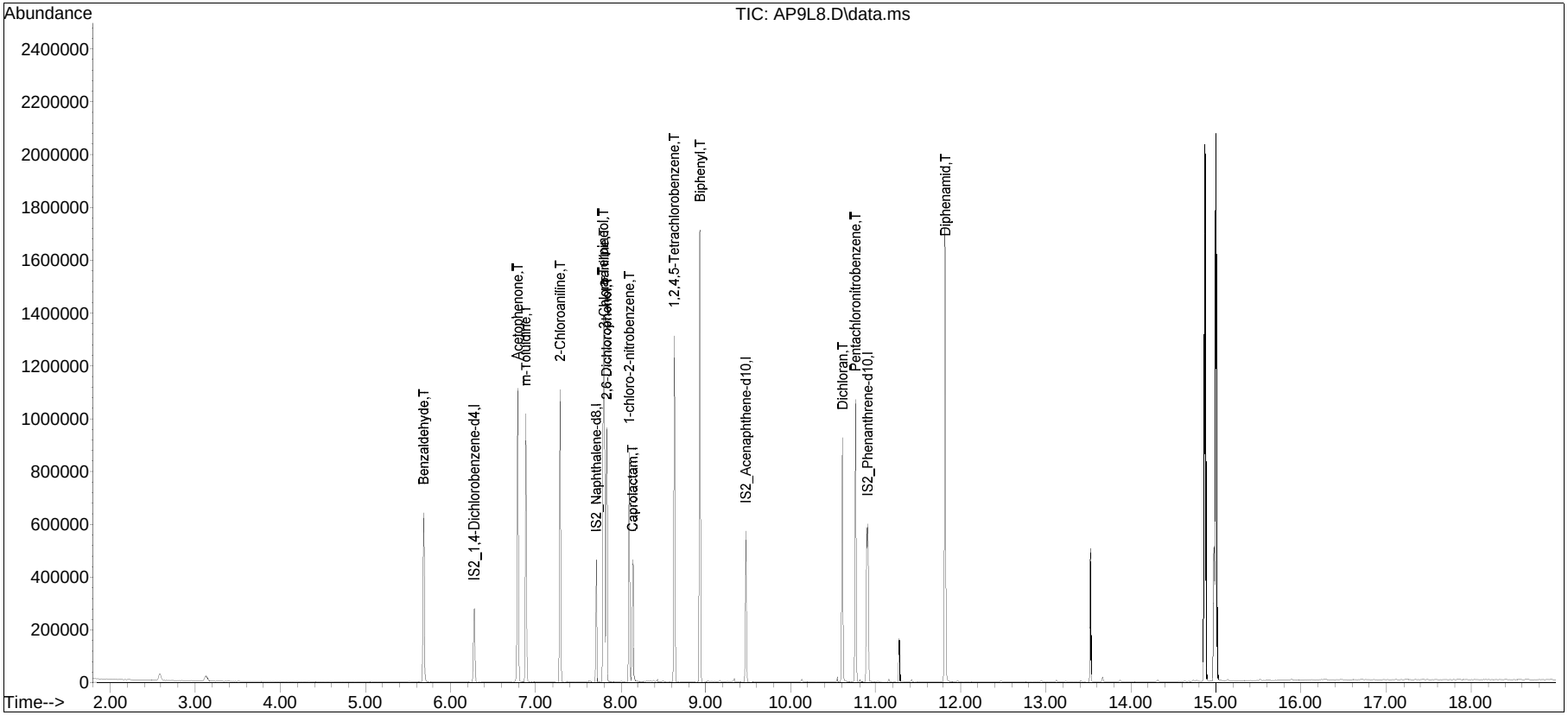
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L8.D
Acq On : 2 Sep 2023 4:58 pm
Operator : SV106:ljg
Sample : IL3,32,,AP9L15 Lot# 10081
Misc : WG1823680,,ical
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 05 11:18:52 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:44 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L8.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 4:58 pm	Instrument	: SV 106
Sample	: IL3,32,,AP9L15 Lot# 10081	Quant Date	: 9/5/2023 11:18 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L7.D
Acq On : 2 Sep 2023 5:21 pm
Operator : SV106:ljg
Sample : IL4,32,,AP9L10 Lot# 10082
Misc : WG1823680,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 05 11:18:42 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:34 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.281	152	43599	4.000	ug/ml	0.00
Standard Area 1 = 44570			Recovery = 97.82%			
54) IS2_Naphthalene-d8	7.716	136	168106	4.000	ug/ml	0.00
Standard Area 1 = 169751			Recovery = 99.03%			
82) IS2_Acenaphthene-d10	9.475	164	91653	4.000	ug/ml	0.00
Standard Area 1 = 90319			Recovery = 101.48%			
97) IS2_Phenanthrene-d10	10.904	188	184426	4.000	ug/ml	0.00
Standard Area 1 = 182619			Recovery = 100.99%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.687	105	100921	11.196	ug/ml	97
29) Acetophenone	6.787	105	206878	9.518	ug/ml#	80
30) m-Toluidine	6.887	106	171545	10.155	ug/ml	97
31) 2-Chloroaniline	7.292	127	177077	9.726	ug/ml#	94
55) a-Terpineol	7.792	59	114841	9.465	ug/ml#	77
56) 3-Chloroaniline	7.804	65	62140	9.831	ug/ml	86
57) 2,6-Dichlorophenol	7.828	162	114456	9.845	ug/ml#	90
58) 1-chloro-2-nitrobenzene	8.098	111	53867	9.780	ug/ml#	1
59) Caprolactam	8.139	55	63110	10.241	ug/ml#	68
60) 1,2,4,5-Tetrachloroben...	8.628	216	135641	9.277	ug/ml	99
61) Biphenyl	8.928	154	336317	9.351	ug/ml	100
83) Dichloran	10.610	206	30724	9.087	ug/ml	90
84) Pentachloronitrobenzene	10.757	237	37798	9.515	ug/ml#	85
98) Diphenamid	11.816	167	234771	10.022	ug/ml#	82

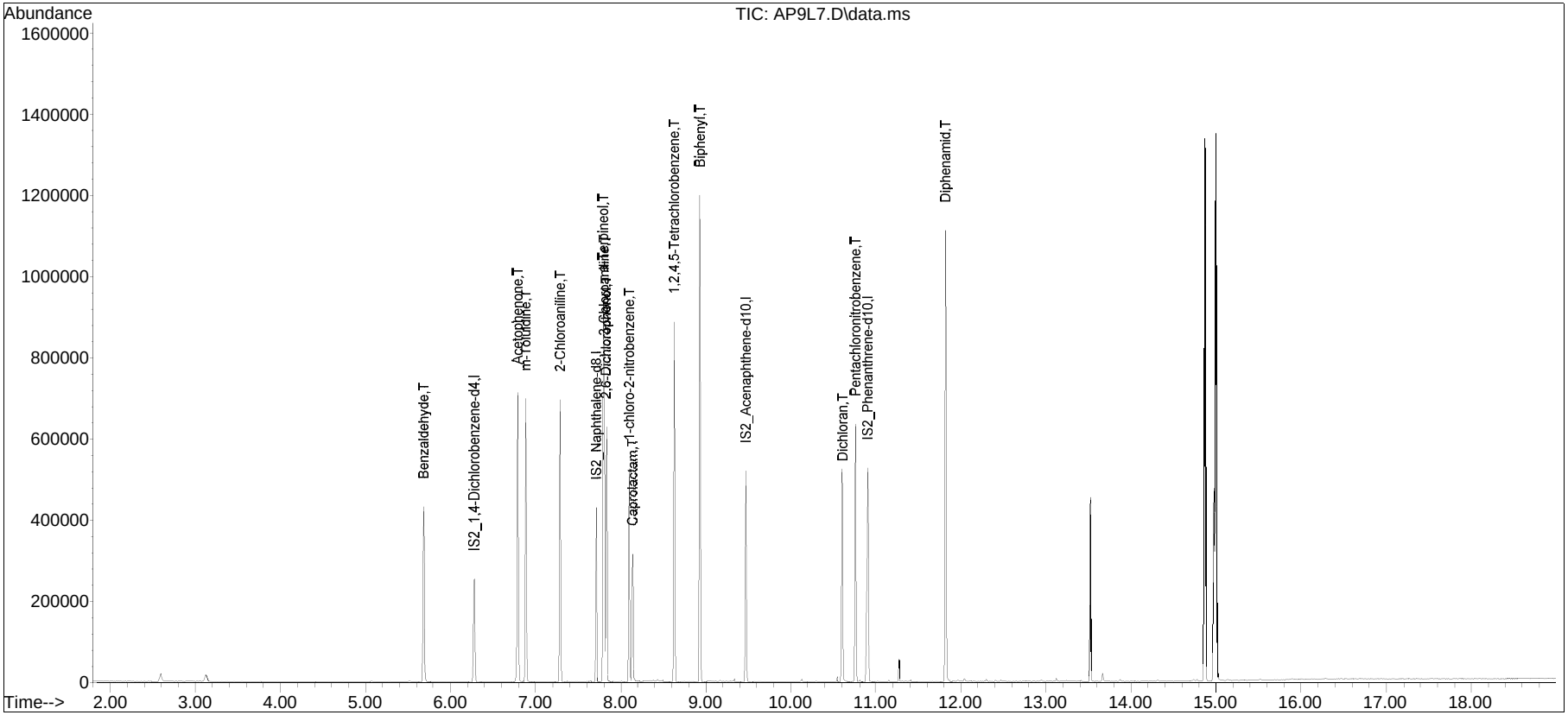
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L7.D
Acq On : 2 Sep 2023 5:21 pm
Operator : SV106:ljg
Sample : IL4,32,,AP9L10 Lot# 10082
Misc : WG1823680,,ical
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 05 11:18:42 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:34 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L7.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 5:21 pm	Instrument	: SV 106
Sample	: IL4,32,,AP9L10 Lot# 10082	Quant Date	: 9/5/2023 11:18 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L6.D
Acq On : 2 Sep 2023 5:45 pm
Operator : SV106:ljg
Sample : IL5,32,,AP9L5 Lot# 10083
Misc : WG1823680,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 05 11:18:31 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:23 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.281	152	44570	4.000	ug/ml		0.00
Standard Area 1 = 44570			Recovery =	100.00%			
54) IS2_Naphthalene-d8	7.716	136	169751	4.000	ug/ml		0.00
Standard Area 1 = 169751			Recovery =	100.00%			
82) IS2_Acenaphthene-d10	9.475	164	90319	4.000	ug/ml		0.00
Standard Area 1 = 90319			Recovery =	100.00%			
97) IS2_Phenanthrene-d10	10.904	188	182619	4.000	ug/ml	#	0.00
Standard Area 1 = 182619			Recovery =	100.00%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.687	105	72359	7.650	ug/ml		100
29) Acetophenone	6.787	105	144135	6.487	ug/ml	#	79
30) m-Toluidine	6.887	106	121548	7.039	ug/ml		97
31) 2-Chloroaniline	7.292	127	122731	6.594	ug/ml	#	93
55) a-Terpineol	7.792	59	79745	6.508	ug/ml	#	76
56) 3-Chloroaniline	7.804	65	42863	6.716	ug/ml		87
57) 2,6-Dichlorophenol	7.828	162	80147	6.827	ug/ml	#	89
58) 1-chloro-2-nitrobenzene	8.098	111	37011	6.655	ug/ml	#	1
59) Caprolactam	8.134	55	42186	6.779	ug/ml	#	66
60) 1,2,4,5-Tetrachloroben...	8.628	216	94610	6.408	ug/ml		99
61) Biphenyl	8.928	154	237100	6.528	ug/ml		100
83) Dichloran	10.610	206	19227	6.135	ug/ml		90
84) Pentachloronitrobenzene	10.757	237	24999	6.488	ug/ml	#	85
98) Diphenamid	11.816	167	159499	6.876	ug/ml		85

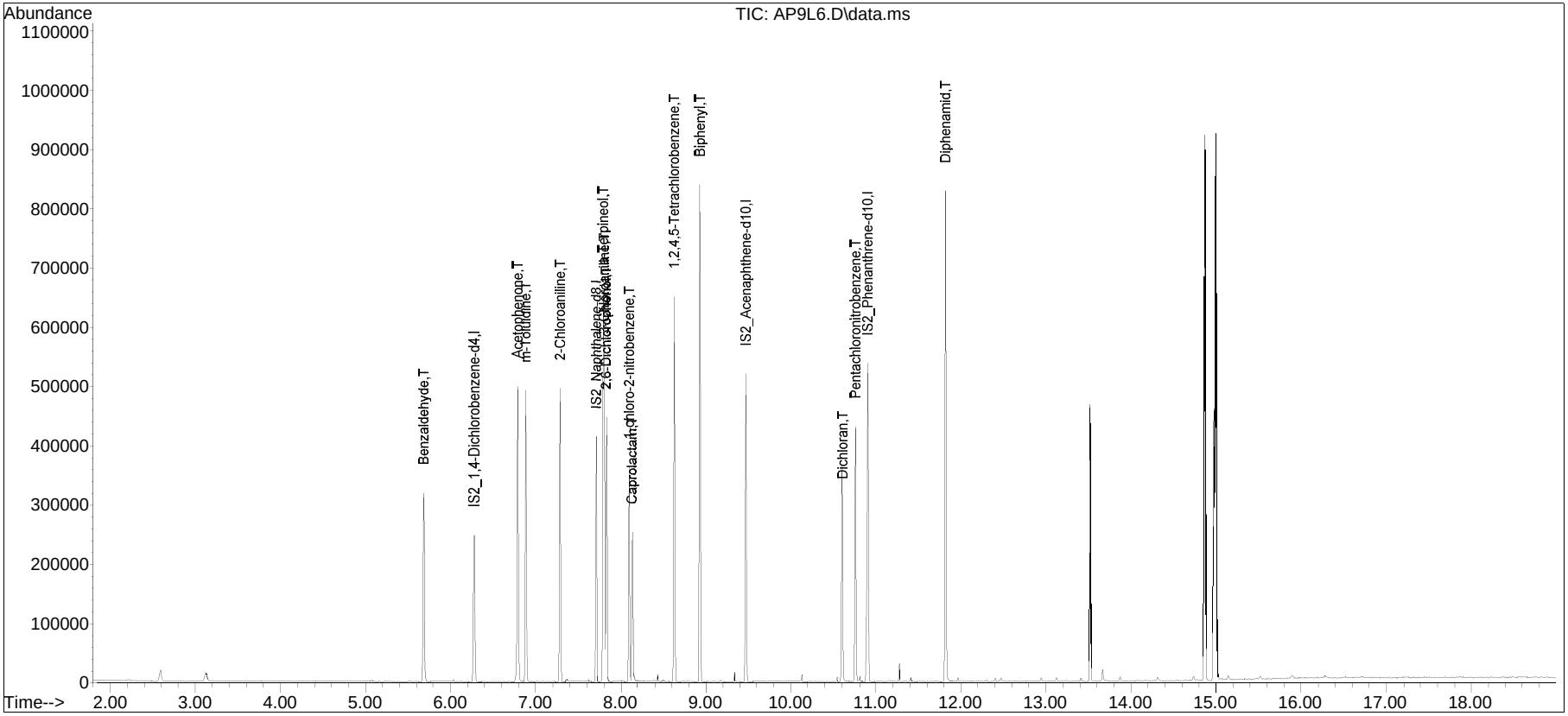
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L6.D
Acq On : 2 Sep 2023 5:45 pm
Operator : SV106:ljg
Sample : IL5,32,,AP9L5 Lot# 10083
Misc : WG1823680,,ical
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 05 11:18:31 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:23 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L6.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 5:45 pm	Instrument	: SV 106
Sample	: IL5,32,,AP9L5 Lot# 10083	Quant Date	: 9/5/2023 11:18 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L5.D
Acq On : 2 Sep 2023 6:09 pm
Operator : SV106:ljg
Sample : IL6,32,,AP9L3 Lot# 10084
Misc : WG1823680,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 05 11:18:20 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:12 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.281	152	41203	4.000	ug/ml	0.00
Standard Area 1 = 44570			Recovery = 92.45%			
54) IS2_Naphthalene-d8	7.716	136	158379	4.000	ug/ml	# 0.00
Standard Area 1 = 169751			Recovery = 93.30%			
82) IS2_Acenaphthene-d10	9.475	164	85579	4.000	ug/ml	0.00
Standard Area 1 = 90319			Recovery = 94.75%			
97) IS2_Phenanthrene-d10	10.904	188	172049	4.000	ug/ml	# 0.00
Standard Area 1 = 182619			Recovery = 94.21%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.692	105	27335	2.726	ug/ml	98
29) Acetophenone	6.786	105	58796	2.862	ug/ml#	81
30) m-Toluidine	6.886	106	44327	2.777	ug/ml	96
31) 2-Chloroaniline	7.292	127	48104	2.796	ug/ml#	92
55) a-Terpineol	7.792	59	31750	2.777	ug/ml#	78
56) 3-Chloroaniline	7.804	65	17277	2.901	ug/ml	82
57) 2,6-Dichlorophenol	7.828	162	31233	2.852	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.098	111	13654	2.631	ug/ml#	1
59) Caprolactam	8.128	55	16002	2.756	ug/ml#	64
60) 1,2,4,5-Tetrachloroben...	8.627	216	37844	2.747	ug/ml	98
61) Biphenyl	8.927	154	94300	2.783	ug/ml	98
83) Dichloran	10.604	206	7164	3.018	ug/ml	86
84) Pentachloronitrobenzene	10.757	237	9045	2.670	ug/ml#	84
98) Diphenamid	11.816	167	61174	2.799	ug/ml	85

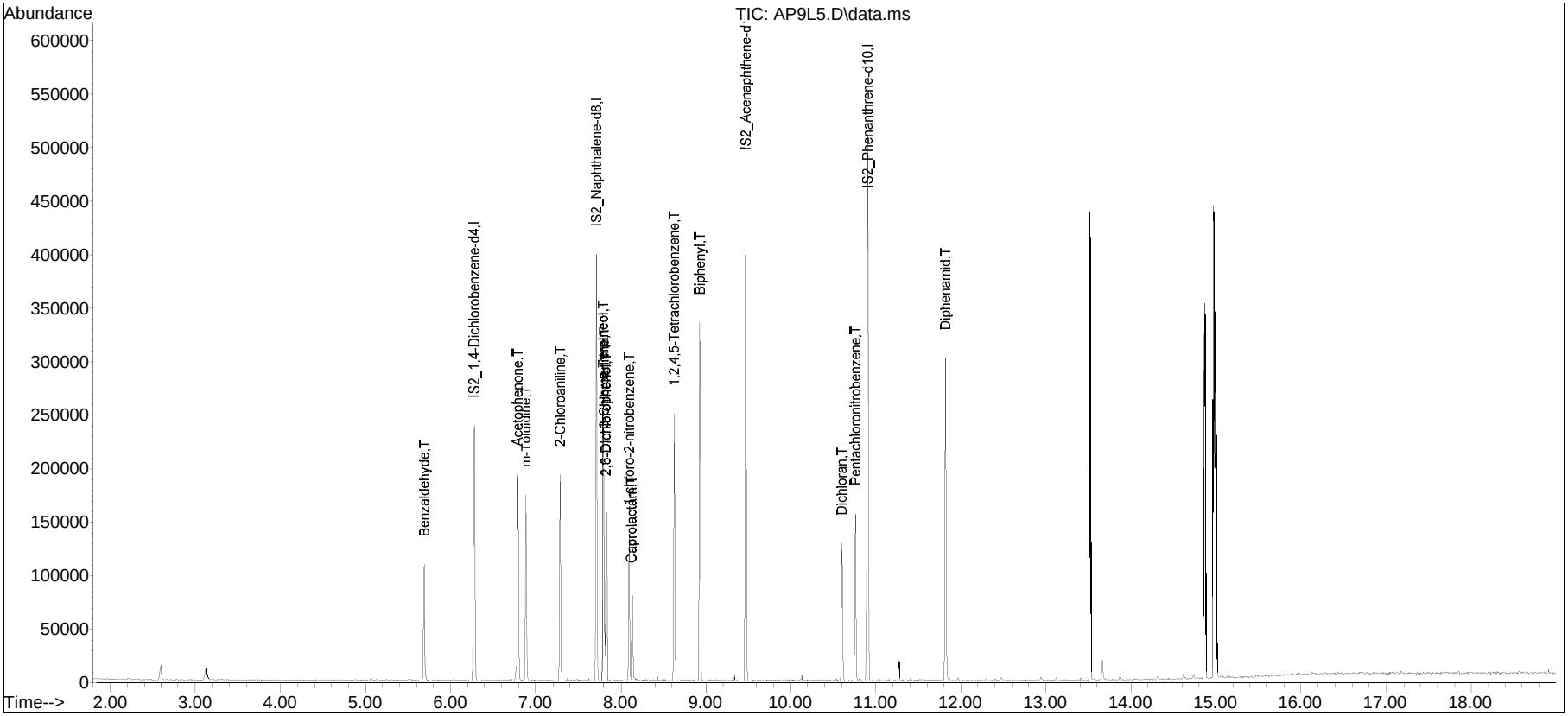
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L5.D
Acq On : 2 Sep 2023 6:09 pm
Operator : SV106:ljg
Sample : IL6,32,,AP9L3 Lot# 10084
Misc : WG1823680,,ical
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 05 11:18:20 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:12 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L5.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 6:09 pm	Instrument	: SV 106
Sample	: IL6,32,,AP9L3 Lot# 10084	Quant Date	: 9/5/2023 11:18 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L4.D
Acq On : 2 Sep 2023 6:32 pm
Operator : SV106:ljg
Sample : IL7,32,,AP9L2 Lot# 10085
Misc : WG1823680,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 05 11:18:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:02 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	6.281	152	44171	4.000 ug/ml	0.00
Standard Area 1 = 44570			Recovery = 99.10%		
54) IS2_Naphthalene-d8	7.716	136	164873	4.000 ug/ml	# 0.00
Standard Area 1 = 169751			Recovery = 97.13%		
82) IS2_Acenaphthene-d10	9.475	164	90708	4.000 ug/ml	0.00
Standard Area 1 = 90319			Recovery = 100.43%		
97) IS2_Phenanthrene-d10	10.904	188	180073	4.000 ug/ml	# 0.00
Standard Area 1 = 182619			Recovery = 98.61%		
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	5.693	105	20272	1.677 ug/ml	96
29) Acetophenone	6.787	105	40328	1.831 ug/ml#	81
30) m-Toluidine	6.887	106	31837	1.860 ug/ml	96
31) 2-Chloroaniline	7.292	127	33601	1.822 ug/ml	94
55) a-Terpineol	7.792	59	21980	1.847 ug/ml#	76
56) 3-Chloroaniline	7.804	65	11981	1.933 ug/ml	85
57) 2,6-Dichlorophenol	7.828	162	20969	1.839 ug/ml	91
58) 1-chloro-2-nitrobenzene	8.098	111	9531	1.764 ug/ml#	1
59) Caprolactam	8.128	55	10668	1.765 ug/ml#	65
60) 1,2,4,5-Tetrachloroben...	8.628	216	27496	1.917 ug/ml	99
61) Biphenyl	8.928	154	65768	1.864 ug/ml	97
83) Dichloran	10.604	206	4819	2.280 ug/ml	91
84) Pentachloronitrobenzene	10.757	237	5491	1.663 ug/ml#	83
98) Diphenamid	11.816	167	42653	1.865 ug/ml	85

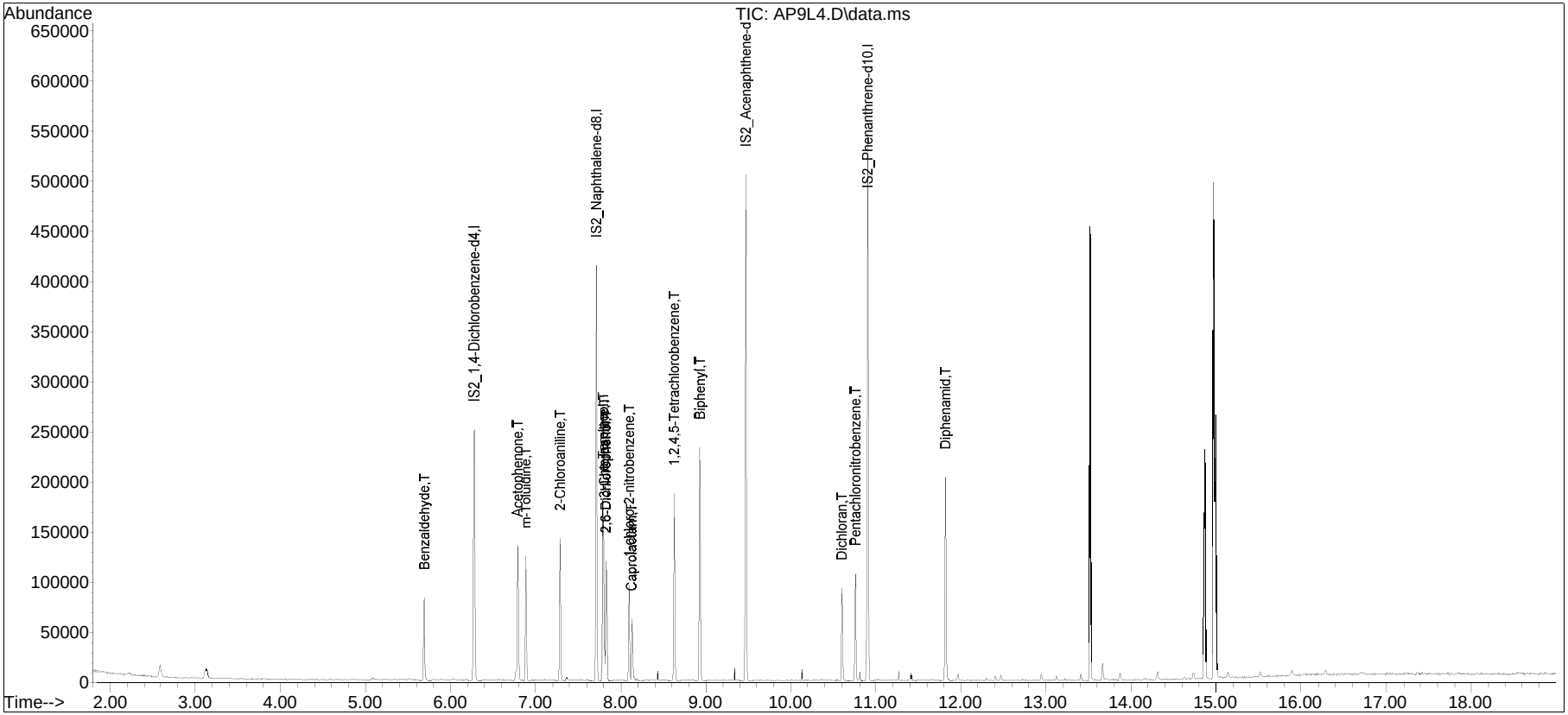
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L4.D
Acq On : 2 Sep 2023 6:32 pm
Operator : SV106:ljg
Sample : IL7,32,,AP9L2 Lot# 10085
Misc : WG1823680,,ical
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 05 11:18:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:18:02 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L4.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 6:32 pm	Instrument	: SV 106
Sample	: IL7,32,,AP9L2 Lot# 10085	Quant Date	: 9/5/2023 11:18 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L3.D
Acq On : 2 Sep 2023 6:56 pm
Operator : SV106:ljg
Sample : IL8,32,,AP9L1 Lot# 10086
Misc : WG1823680,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 05 11:18:00 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:52 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.281	152	42889	4.000	ug/ml	0.00
Standard Area 1 = 44570			Recovery = 96.23%			
54) IS2_Naphthalene-d8	7.716	136	159944	4.000	ug/ml	0.00
Standard Area 1 = 169751			Recovery = 94.22%			
82) IS2_Acenaphthene-d10	9.475	164	87457	4.000	ug/ml	0.00
Standard Area 1 = 90319			Recovery = 96.83%			
97) IS2_Phenanthrene-d10	10.904	188	177883	4.000	ug/ml	0.00
Standard Area 1 = 182619			Recovery = 97.41%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.692	105	11486	0.696	ug/ml	92
29) Acetophenone	6.786	105	20985	0.981	ug/ml#	79
30) m-Toluidine	6.886	106	15994	0.962	ug/ml	95
31) 2-Chloroaniline	7.292	127	18188	1.015	ug/ml#	92
55) a-Terpineol	7.792	59	10937	0.947	ug/ml#	72
56) 3-Chloroaniline	7.804	65	6126	1.019	ug/ml	87
57) 2,6-Dichlorophenol	7.833	162	9769	0.883	ug/ml	89
58) 1-chloro-2-nitrobenzene	8.098	111	5106	0.974	ug/ml#	1
59) Caprolactam	8.133	55	5276	0.900	ug/ml#	75
60) 1,2,4,5-Tetrachloroben...	8.627	216	13460	0.968	ug/ml	95
61) Biphenyl	8.927	154	33563	0.981	ug/ml	99
83) Dichloran	10.604	206	2435	1.670	ug/ml	83
84) Pentachloronitrobenzene	10.757	237	2768	1.018	ug/ml	93
98) Diphenamid	11.816	167	20195	0.894	ug/ml	85

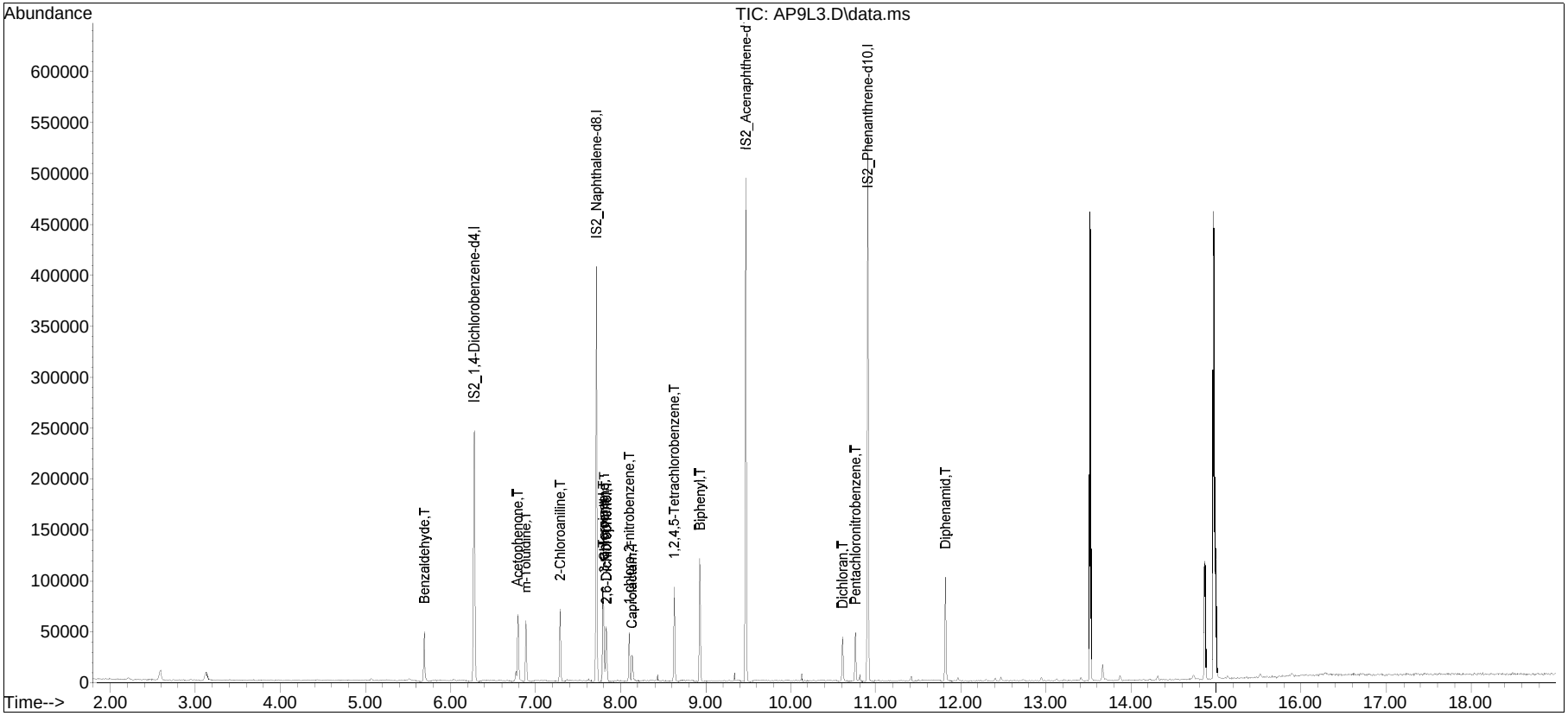
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L3.D
Acq On : 2 Sep 2023 6:56 pm
Operator : SV106:ljg
Sample : IL8,32,,AP9L1 Lot# 10086
Misc : WG1823680,,ical
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 05 11:18:00 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:52 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L3.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 6:56 pm	Instrument	: SV 106
Sample	: IL8,32,,AP9L1 Lot# 10086	Quant Date	: 9/5/2023 11:17 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L2.D
Acq On : 2 Sep 2023 7:20 pm
Operator : SV106:ljg
Sample : IL9,32,,AP9L0.4 Lot# 10087
Misc : WG1823680,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 05 11:17:50 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:42 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	6.281	152	46458	4.000 ug/ml	0.00
Standard Area 1 = 44570			Recovery =	104.24%	
54) IS2_Naphthalene-d8	7.716	136	173297	4.000 ug/ml	0.00
Standard Area 1 = 169751			Recovery =	102.09%	
82) IS2_Acenaphthene-d10	9.475	164	94227	4.000 ug/ml	0.00
Standard Area 1 = 90319			Recovery =	104.33%	
97) IS2_Phenanthrene-d10	10.904	188	187803	4.000 ug/ml	# 0.00
Standard Area 1 = 182619			Recovery =	102.84%	
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	5.693	105	4843	Below Cal	97
29) Acetophenone	6.793	105	8920	0.385 ug/ml#	88
30) m-Toluidine	6.887	106	5638	0.313 ug/ml#	91
31) 2-Chloroaniline	7.293	127	6893	0.355 ug/ml	95
55) a-Terpineol	7.793	59	4789	0.383 ug/ml#	71
56) 3-Chloroaniline	7.804	65	2472	0.379 ug/ml	87
57) 2,6-Dichlorophenol	7.834	162	4310	0.360 ug/ml	91
58) 1-chloro-2-nitrobenzene	8.098	111	2094	0.369 ug/ml#	1
59) Caprolactam	8.134	55	2420	0.381 ug/ml#	89
60) 1,2,4,5-Tetrachloroben...	8.628	216	6404	0.425 ug/ml#	97
61) Biphenyl	8.928	154	14877	0.401 ug/ml	99
83) Dichloran	10.604	206	866	1.220 ug/ml	88
84) Pentachloronitrobenzene	10.751	237	1326	0.626 ug/ml#	76
98) Diphenamid	11.816	167	8310	0.348 ug/ml	86

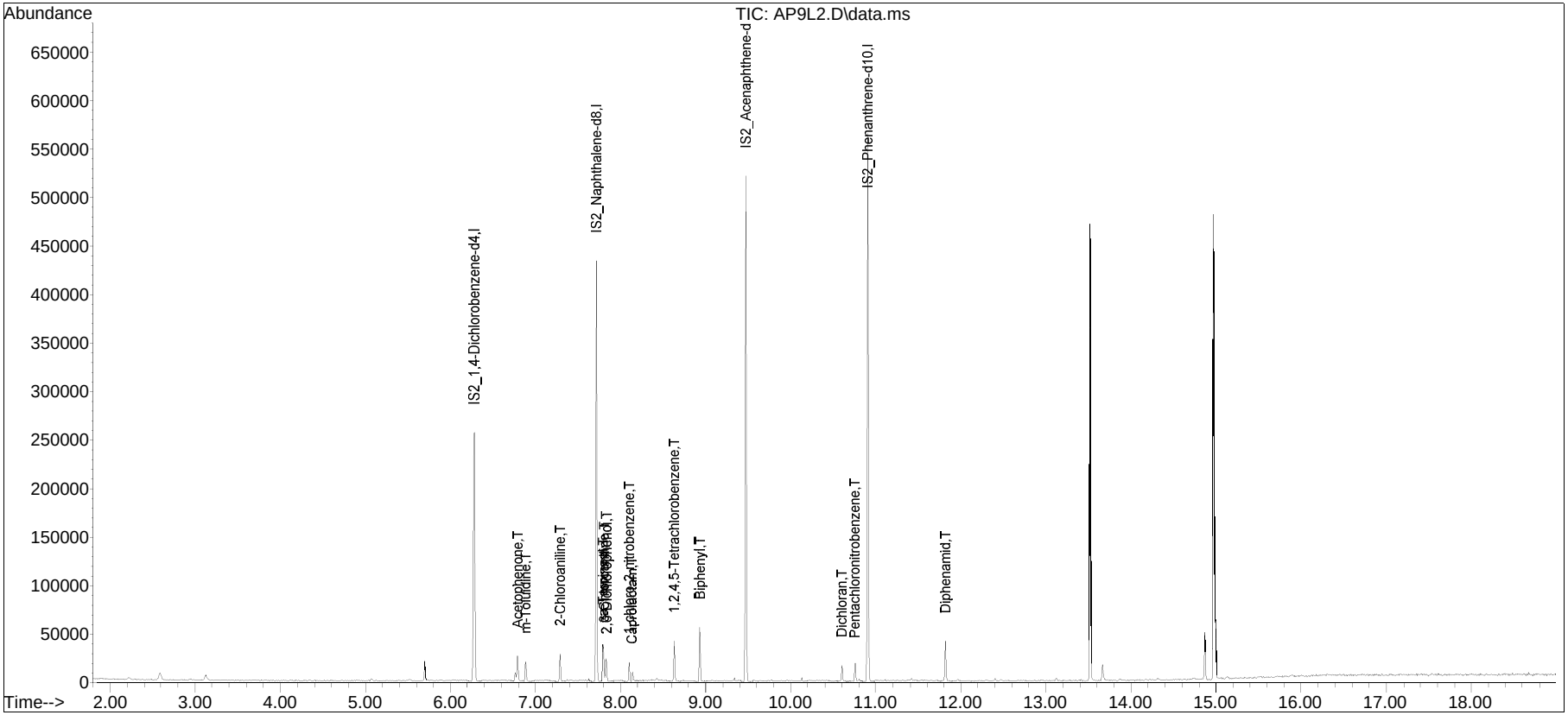
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L2.D
Acq On : 2 Sep 2023 7:20 pm
Operator : SV106:ljg
Sample : IL9,32,,AP9L0.4 Lot# 10087
Misc : WG1823680,,ical
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 05 11:17:50 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:42 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L2.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 7:20 pm	Instrument	: SV 106
Sample	: IL9,32,,AP9L0.4 Lot# 10087	Quant Date	: 9/5/2023 11:17 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L1.D
Acq On : 2 Sep 2023 7:43 pm
Operator : SV106:ljg
Sample : IL10,32,,AP9L0.2 Lot# 10088
Misc : WG1823680,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 05 11:17:27 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	6.281	152	44285	4.000 ug/ml	0.00
Standard Area 1 = 44570			Recovery = 99.36%		
54) IS2_Naphthalene-d8	7.716	136	171660	4.000 ug/ml	# 0.00
Standard Area 1 = 169751			Recovery = 101.12%		
82) IS2_Acenaphthene-d10	9.474	164	96872	4.000 ug/ml	0.00
Standard Area 1 = 90319			Recovery = 107.26%		
97) IS2_Phenanthrene-d10	10.904	188	185184	4.000 ug/ml	# 0.00
Standard Area 1 = 182619			Recovery = 101.40%		
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	5.698	105	2451	Below Cal	90
29) Acetophenone	6.792	105	4984	0.226 ug/ml#	75
30) m-Toluidine	6.892	106	1613	0.094 ug/ml#	93
31) 2-Chloroaniline	7.292	127	4182	0.226 ug/ml#	91
55) a-Terpineol	7.792	59	2805	0.226 ug/ml#	82
56) 3-Chloroaniline	7.804	65	1291	0.200 ug/ml	96
57) 2,6-Dichlorophenol	7.827	162	2305	0.194 ug/ml#	89
58) 1-chloro-2-nitrobenzene	8.098	111	1074	0.191 ug/ml#	1
59) Caprolactam	8.145	55	1044	0.166 ug/ml#	43
60) 1,2,4,5-Tetrachloroben...	8.627	216	3284	0.220 ug/ml#	92
61) Biphenyl	8.933	154	8165	0.222 ug/ml	94
83) Dichloran	10.604	206	610	1.150 ug/ml#	76
84) Pentachloronitrobenzene	10.757	237	661	0.464 ug/ml#	7
98) Diphenamid	11.815	167	4345	0.185 ug/ml	91

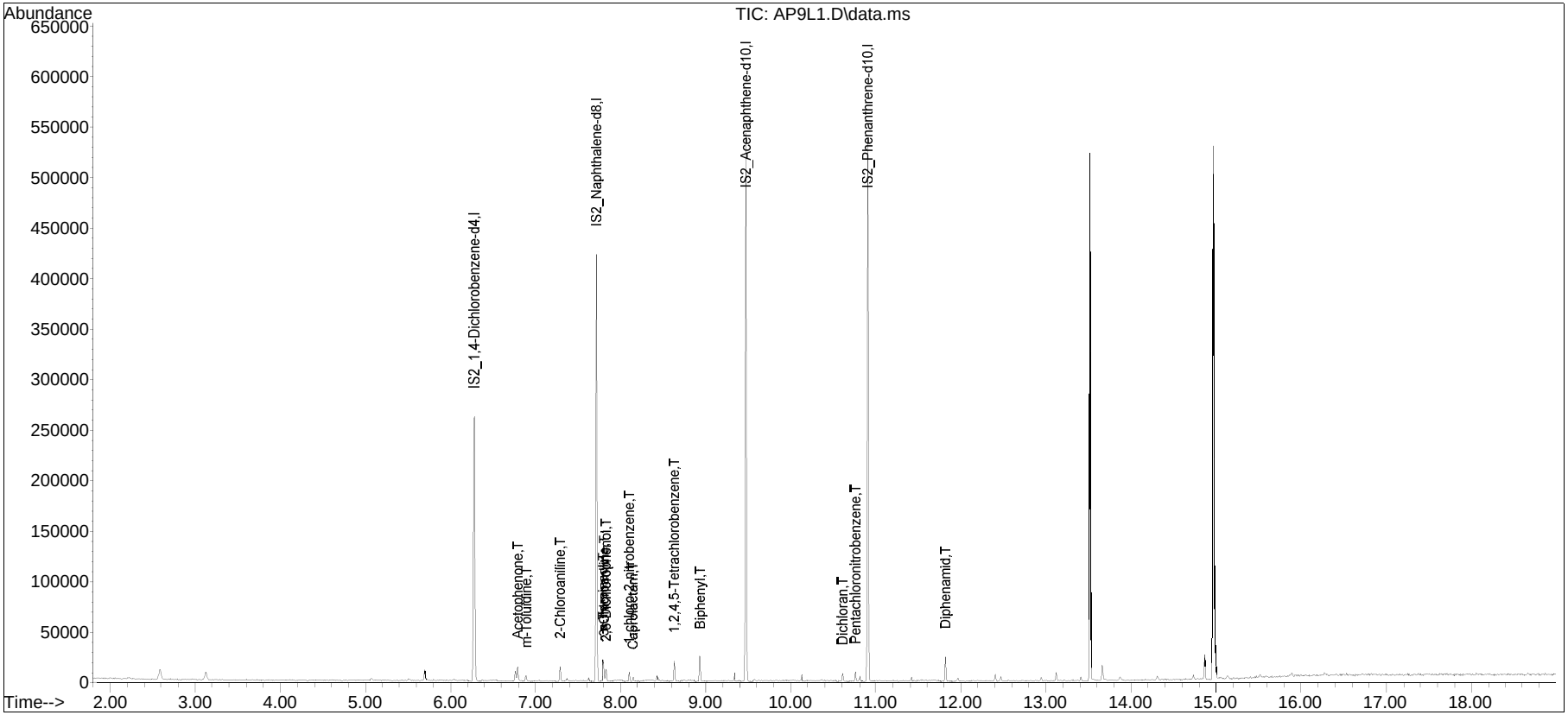
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9L1.D
Acq On : 2 Sep 2023 7:43 pm
Operator : SV106:ljg
Sample : IL10,32,,AP9L0.2 Lot# 10088
Misc : WG1823680,,ical
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 05 11:17:27 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:20 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9L1.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 7:43 pm	Instrument	: SV 106
Sample	: IL10,32,,AP9L0.2 Lot# 1008	Quant Date	: 9/5/2023 11:17 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
Acq On : 2 Sep 2023 8:07 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	109	0.00
2	t	n-Nitrosodimethylamine		0.677	0.686	-1.3	120	0.00
3	t	Pyridine		1.151	1.016	11.7	104	-0.01
4	S	2-Fluorophenol		1.116	1.138	-2.0	125	0.00
5	T	Aniline		1.893	1.792	5.3	114	0.00
6	t	2-Chlorophenol		1.274	1.237	2.9	114	0.00
7	S	Phenol-d6		1.437	1.418	1.3	116	0.00
8	T	Phenol		1.521	1.471	3.3	117	0.00
9	T	Bis(2-chloroethyl)ether		1.222	1.168	4.4	114	0.00
10	T	1,3-Dichlorobenzene		1.461	1.465	-0.3	119	0.00
11	T	1,4-Dichlorobenzene		1.503	1.510	-0.5	122	0.00
12	T	1,2-Dichlorobenzene		1.431	1.405	1.8	119	0.00
13	t	Benzyl alcohol		1.074	1.043	2.9	115	0.00
14	T	Bis(2-chloroisopropyl)ether		1.800	1.721	4.4	114	0.00
15	T	2-Methylphenol		1.138	1.098	3.5	118	0.00
16	T	Hexachloroethane		0.586	0.563	3.9	115	0.00
17	T	n-Nitrosodi-n-propylamine		0.923	0.896	2.9	117	0.00
18	T	3-Methylphenol/4-Methylphen		1.193	1.158	2.9	116	0.00
19	S	Nitrobenzene-d5		1.303	1.150	11.7	108	0.00
20	T	Nitrobenzene		1.295	1.223	5.6	112	0.00
21	T	Isophorone		2.478	2.372	4.3	116	0.00
22	T	2-Nitrophenol		0.518	0.470	9.3	110	0.00
23	T	2,4-Dimethylphenol		1.281	1.287	-0.5	117	0.00
24	T	Bis(2-chloroethoxy)methane		1.552	1.543	0.6	119	0.00
25	T	2,4-Dichlorophenol		1.076	1.060	1.5	114	0.00
26	T	1,2,4-Trichlorobenzene		1.235	1.233	0.2	122	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	106	0.00
35	T	Naphthalene		1.008	1.003	0.5	119	0.00
36	T	Benzoic Acid	*	5.000	4.512	9.8	105	0.00
37	T	4-Chloroaniline		0.132	0.132	0.0	117	0.00
38	T	Hexachlorobutadiene		0.206	0.202	1.9	119	0.00
39	T	p-Chloro-m-cresol		0.291	0.287	1.4	113	0.00
40	T	2-Methylnaphthalene		0.642	0.654	-1.9	121	0.00
41	T	1-Methylnaphthalene		0.241	0.243	-0.8	118	0.00
42	T	Hexachlorocyclopentadiene		0.219	0.219	0.0	119	0.00
43	T	2,4,6-Trichlorophenol		0.209	0.204	2.4	118	0.00
44	T	2,4,5-Trichlorophenol		0.224	0.225	-0.4	122	0.00
45	S	2-Fluorobiphenyl		0.764	0.759	0.7	119	0.00

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
Acq On : 2 Sep 2023 8:07 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.669	0.664	0.7	118	0.00
47	T	2-Nitroaniline	*	5.000	4.450	11.0	110	0.00
48	T	1,4-Dinitrobenzene	*	5.000	4.315	13.7	111	0.00
49	T	1,3-Dinitrobenzene	*	5.000	4.536	9.3	110	0.00
50	T	Dimethyl phthalate		0.787	0.763	3.0	114	0.00
51	T	Acenaphthylene		1.077	1.084	-0.6	121	0.00
52	T	2,6-Dinitrotoluene	*	5.000	4.585	8.3	116	0.00
53	T	1,2-Dinitrobenzene		0.063	0.057	9.5	108	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	107	0.00
63	T	3-Nitroaniline		0.286	0.285	0.3	117	0.00
64	T	Acenaphthene		1.131	1.054	6.8	113	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.123	17.5	96	0.00
66	T	Dibenzofuran		1.690	1.661	1.7	118	0.00
67	T	2,4-Dinitrotoluene	*	5.000	4.548	9.0	115	0.00
68	T	4-Nitrophenol	*	5.000	4.502	10.0	115	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.325	0.312	4.0	113	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.337	0.315	6.5	110	0.00
71	T	Diethyl phthalate		1.415	1.404	0.8	116	0.00
72	T	Fluorene		1.336	1.290	3.4	115	0.00
73	T	4-Chlorophenyl phenyl ether		0.637	0.611	4.1	116	0.00
74	T	4-Nitroaniline		0.289	0.275	4.8	107	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.436	11.3	116	0.00
76	T	NDPA/DPA		1.124	1.096	2.5	114	0.00
77	T	Azobenzene		1.319	1.346	-2.0	121	0.00
78	S	2,4,6-Tribromophenol		0.184	0.186	-1.1	117	0.00
79	T	4-Bromophenyl phenyl ether		0.371	0.373	-0.5	121	0.00
80	T	Hexachlorobenzene		0.432	0.409	5.3	117	0.00
81	T	Pentachlorophenol	*	5.000	4.617	7.7	117	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	110	0.00
88	T	Phenanthrene		1.089	1.012	7.1	114	0.00
89	T	Anthracene		1.084	1.035	4.5	116	0.00
90	T	Carbazole		0.991	0.958	3.3	115	0.00
91	T	Di-n-butylphthalate		1.269	1.180	7.0	112	0.00
92	T	Fluoranthene		1.165	1.095	6.0	115	0.00
93	T	Benzidine		0.770	0.774	-0.5	121	0.00
94	T	Pyrene		1.233	1.186	3.8	118	0.00
95	S	4-Terphenyl-d14		0.877	0.879	-0.2	122	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
Acq On : 2 Sep 2023 8:07 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.541	0.476	12.0	106	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	109	0.00
104	T	Benzo(a)anthracene	1.326	1.261	4.9	115	0.00
105	T	3,3'-Dichlorobenzidine	0.472	0.464	1.7	115	0.00
106	T	Chrysene	1.231	1.198	2.7	119	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.889	0.854	3.9	112	0.00
108	T	Di-n-octylphthalate	1.499	1.450	3.3	112	0.00
109	T	Benzo(b)fluoranthene	1.266	1.192	5.8	115	0.00
110	T	Benzo(k)fluoranthene	1.214	1.192	1.8	112	0.00
111	T	Benzo(a)pyrene	1.083	1.132	-4.5	124	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	107	0.00
113	T	Indeno(1,2,3-cd)pyrene	0.935	0.923	1.3	119	0.00
114	T	Dibenzo(a,h)anthracene	0.999	0.980	1.9	114	0.00
115	T	Benzo(ghi)perylene	0.991	0.963	2.8	114	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
Acq On : 2 Sep 2023 8:07 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	6.281	152	46988	4.000 ug/ml	0.00
Standard Area 1 = 43113			Recovery = 108.99%		
34) IS1_Naphthalene-d8	7.716	136	177178	4.000 ug/ml	0.00
Standard Area 1 = 167432			Recovery = 105.82%		
62) IS1_Acenaphthene-d10	9.475	164	100060	4.000 ug/ml	0.00
Standard Area 1 = 93119			Recovery = 107.45%		
87) IS1_Phenanthrene-d10	10.904	188	197265	4.000 ug/ml	# 0.00
Standard Area 1 = 179535			Recovery = 109.88%		
103) IS1_Chrysene-d12	13.515	240	179289	4.000 ug/ml	0.00
Standard Area 1 = 164850			Recovery = 108.76%		
112) IS1_Perylene-d12	14.968	264	196553	4.000 ug/ml	0.00
Standard Area 1 = 183060			Recovery = 107.37%		
System Monitoring Compounds					
4) 2-Fluorophenol	4.245	112	66842	5.101 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 102.02%		
7) Phenol-d6	5.910	99	83259	4.932 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 98.64%		
19) Nitrobenzene-d5	6.945	82	67573	4.415 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 176.60%#		
45) 2-Fluorobiphenyl	8.839	172	168148	4.972 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 198.88%#		
78) 2,4,6-Tribromophenol	10.239	330	23209	5.055 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 101.10%		
95) 4-Terphenyl-d14	12.486	244	216638	5.007 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 200.28%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.928	74	40295	5.065 ug/ml#	68
3) Pyridine	1.957	79	59684	4.416 ug/ml#	64
5) Aniline	5.863	93	105271	4.734 ug/ml	97
6) 2-Chlorophenol	6.010	128	72678	4.856 ug/ml	92
8) Phenol	5.928	94	86378	4.835 ug/ml	96
9) Bis(2-chloroethyl)ether	6.004	93	68605	4.780 ug/ml#	82
10) 1,3-Dichlorobenzene	6.198	146	86058	5.015 ug/ml	99
11) 1,4-Dichlorobenzene	6.298	146	88690	5.023 ug/ml	97
12) 1,2-Dichlorobenzene	6.481	146	82512	4.908 ug/ml	99
13) Benzyl alcohol	6.498	79	61266	4.858 ug/ml	97
14) Bis(2-chloroisopropyl)...	6.681	45	101104	4.783 ug/ml#	48

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
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Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.675	108	64492	4.826	ug/ml	99
16) Hexachloroethane	6.875	117	33051	4.802	ug/ml#	76
17) n-Nitrosodi-n-propylamine	6.822	70	52624	4.852	ug/ml	94
18) 3-Methylphenol/4-Methy...	6.863	108	68011	4.851	ug/ml	99
20) Nitrobenzene	6.963	77	71851	4.724	ug/ml	96
21) Isophorone	7.251	82	139339	4.787	ug/ml	95
22) 2-Nitrophenol	7.328	139	27634	4.543	ug/ml#	93
23) 2,4-Dimethylphenol	7.433	107	75608	5.025	ug/ml	95
24) Bis(2-chloroethoxy)met...	7.528	93	90611	4.969	ug/ml	98
25) 2,4-Dichlorophenol	7.592	162	62268	4.928	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.669	180	72447	4.994	ug/ml	99
35) Naphthalene	7.733	128	222032	4.971	ug/ml	99
36) Benzoic Acid	7.522	105	35323	4.512	ug/ml	96
37) 4-Chloroaniline	7.822	65	29251	5.002	ug/ml	90
38) Hexachlorobutadiene	7.910	225	44756	4.914	ug/ml	99
39) p-Chloro-m-cresol	8.357	107	63643	4.929	ug/ml	94
40) 2-Methylnaphthalene	8.457	142	144820	5.093	ug/ml	95
41) 1-Methylnaphthalene	8.551	115	53738	5.039	ug/ml	81
42) Hexachlorocyclopentadiene	8.633	237	48573	5.001	ug/ml	99
43) 2,4,6-Trichlorophenol	8.751	196	45102	4.882	ug/ml	99
44) 2,4,5-Trichlorophenol	8.780	196	49849	5.016	ug/ml	94
46) 2-Chloronaphthalene	8.933	162	147157	4.965	ug/ml	100
47) 2-Nitroaniline	9.045	138	36042	4.450	ug/ml	92
48) 1,4-Dinitrobenzene	9.180	168	14246	4.315	ug/ml	93
49) 1,3-Dinitrobenzene	9.257	168	17604	4.536	ug/ml#	1
50) Dimethyl phthalate	9.257	163	169013	4.846	ug/ml#	99
51) Acenaphthylene	9.333	152	240120	5.034	ug/ml	100
52) 2,6-Dinitrotoluene	9.298	165	30463	4.585	ug/ml#	84
53) 1,2-Dinitrobenzene	9.333	168	12690	4.522	ug/ml#	1
63) 3-Nitroaniline	9.451	138	35610	4.975	ug/ml	100
64) Acenaphthene	9.504	154	131783	4.660	ug/ml	93
65) 2,4-Dinitrophenol	9.551	184	12153	4.123	ug/ml	95
66) Dibenzofuran	9.675	168	207762	4.914	ug/ml	100
67) 2,4-Dinitrotoluene	9.680	165	40776	4.548	ug/ml	96
68) 4-Nitrophenol	9.639	65	30240	4.502	ug/ml#	86
69) 2,3,5,6-Tetrachlorophenol	9.769	232	39034	4.802	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.810	232	39370	4.667	ug/ml	94
71) Diethyl phthalate	9.951	149	175591	4.961	ug/ml	99
72) Fluorene	10.010	166	161349	4.830	ug/ml	93
73) 4-Chlorophenyl phenyl ...	10.033	204	76376	4.791	ug/ml	97

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
Acq On : 2 Sep 2023 8:07 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	10.033	138	34455	4.769	ug/ml#	85
75)	4,6-Dinitro-o-cresol	10.075	198	17576	4.436	ug/ml#	74
76)	NDPA/DPA	10.145	169	137047	4.876	ug/ml	95
77)	Azobenzene	10.180	77	168401	5.103	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.498	248	46603	5.023	ug/ml	89
80)	Hexachlorobenzene	10.545	284	51213	4.742	ug/ml	90
81)	Pentachlorophenol	10.739	266	29323	4.617	ug/ml	98
88)	Phenanthrene	10.927	178	249661	4.647	ug/ml	100
89)	Anthracene	10.974	178	255236	4.773	ug/ml	99
90)	Carbazole	11.145	167	236335	4.837	ug/ml	99
91)	Di-n-butylphthalate	11.545	149	290986	4.650	ug/ml	99
92)	Fluoranthene	12.074	202	270091	4.703	ug/ml#	92
93)	Benzidine	12.233	184	190778	5.027	ug/ml#	95
94)	Pyrene	12.286	202	292413	4.809	ug/ml	98
96)	Butyl benzyl phthalate	13.010	149	117354	4.395	ug/ml	93
104)	Benzo(a)anthracene	13.510	228	282690	4.758	ug/ml	100
105)	3,3'-Dichlorobenzidine	13.515	252	103983	4.918	ug/ml#	98
106)	Chrysene	13.545	228	268550	4.869	ug/ml	100
107)	Bis(2-ethylhexyl)phtha...	13.645	149	191400	4.805	ug/ml#	92
108)	Di-n-octylphthalate	14.315	149	325055	4.837	ug/ml#	73
109)	Benzo(b)fluoranthene	14.604	252	267047	4.705	ug/ml#	95
110)	Benzo(k)fluoranthene	14.627	252	267153	4.910	ug/ml#	94
111)	Benzo(a)pyrene	14.909	252	253755	5.226	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	15.927	276	226891M6	4.941	ug/mL	
114)	Dibenzo(a,h)anthracene	15.951	278	240753	4.902	ug/ml#	91
115)	Benzo(ghi)perylene	16.156	276	236559	4.856	ug/ml#	88

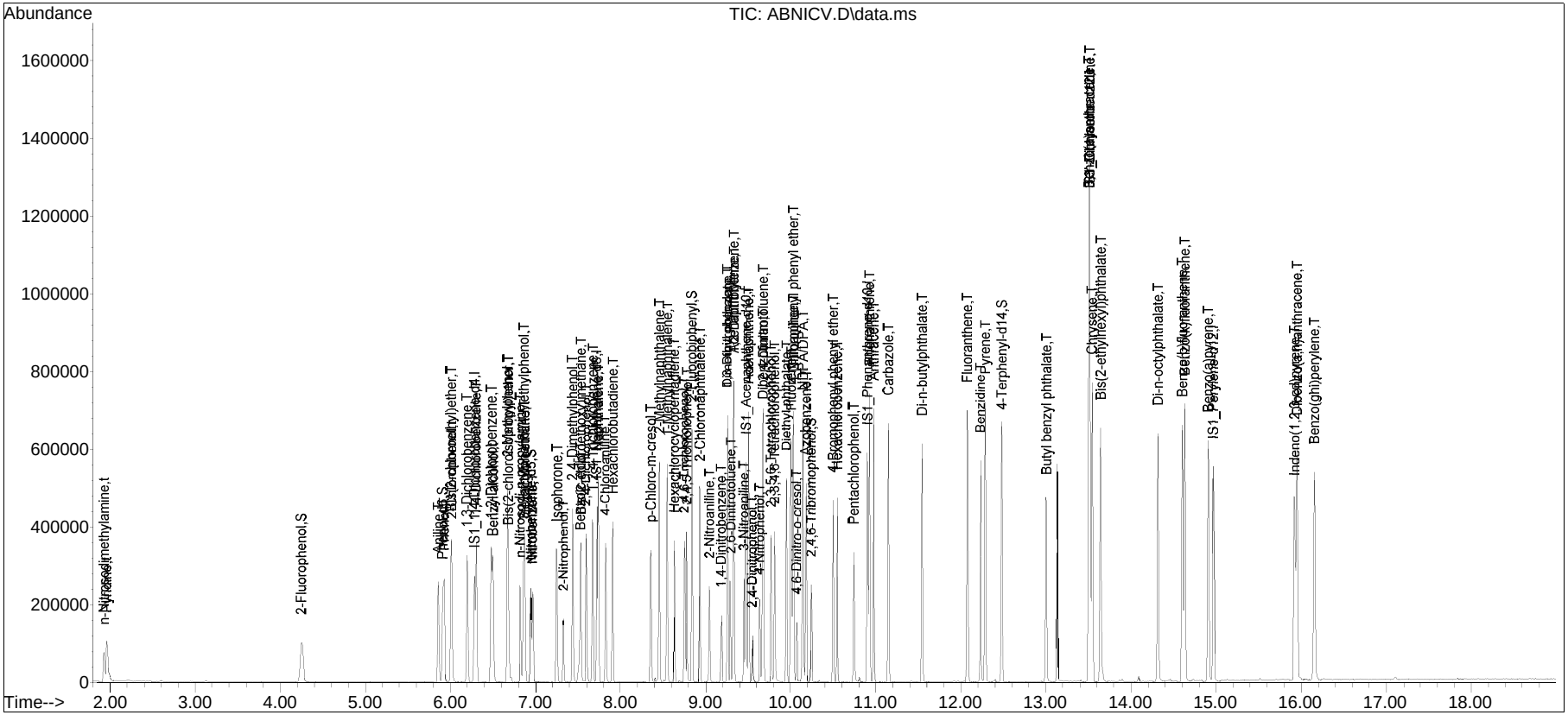
(#) = qualifier out of range (m) = manual integration (+) = signals summed

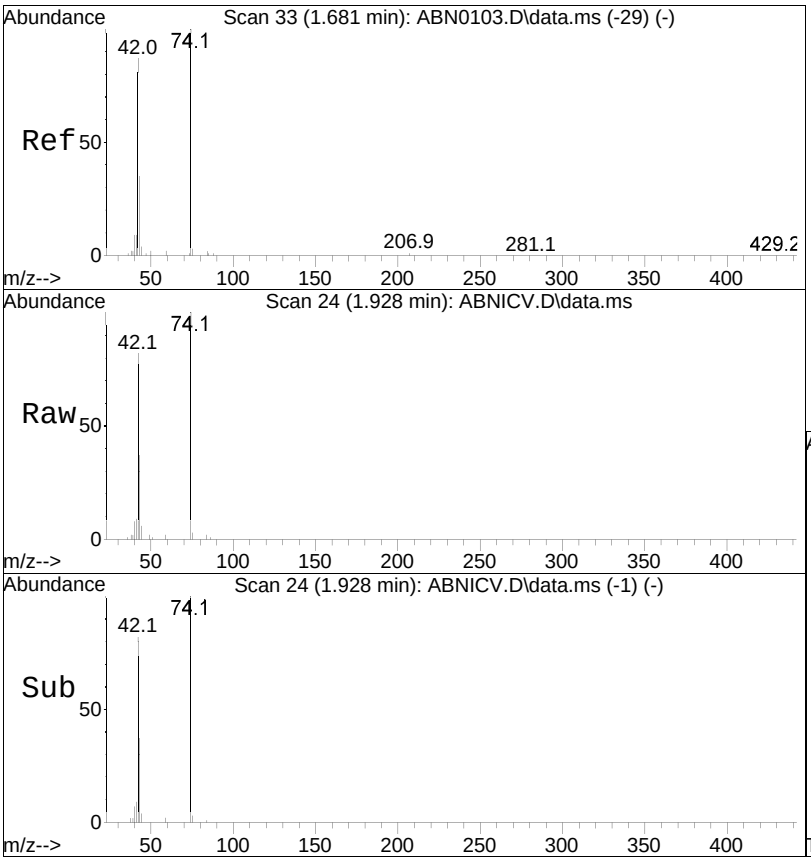
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ABNICV.D
Acq On : 2 Sep 2023 8:07 pm
Operator : SV106:ljg
Sample : CQICV1,32,,ABNICV Lot# 10210
Misc : WG1823680,,ical
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 05 11:13:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:13:45 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistiical\ABNL6.D•

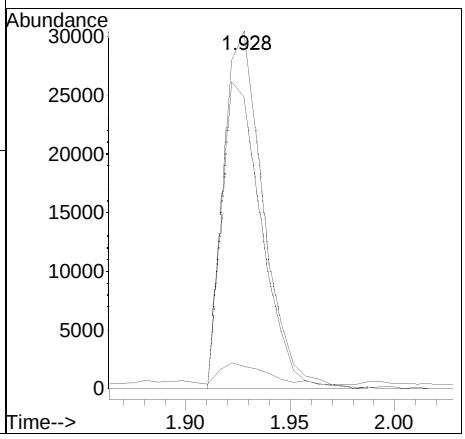


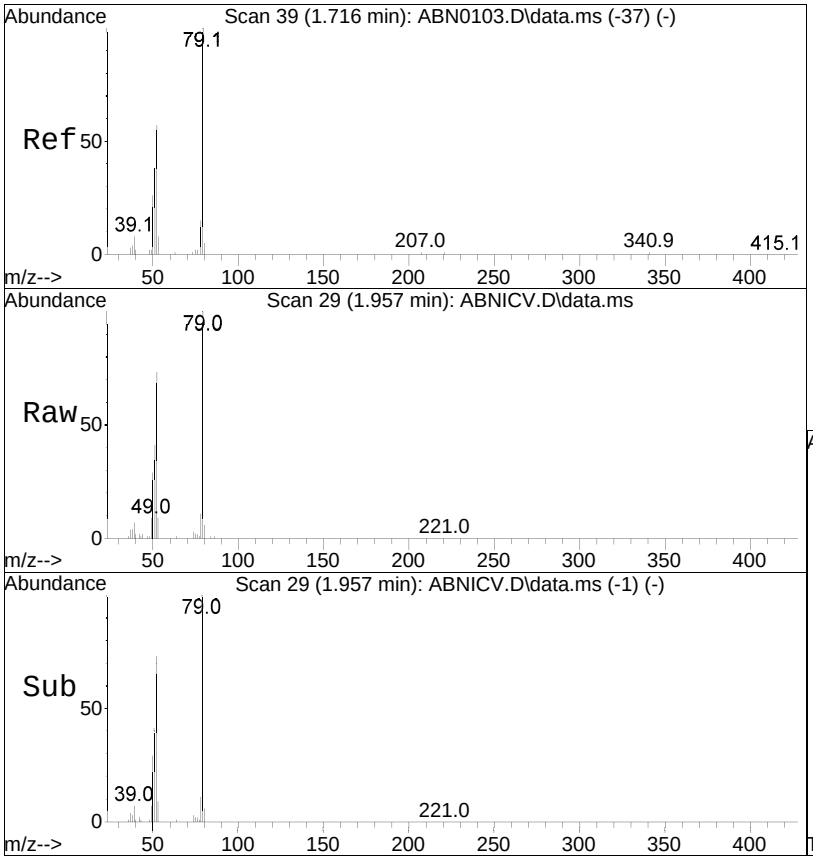


#2
n-Nitrosodimethylamine
Concen: 5.06 ug/ml
RT: 1.928 min Scan# 24
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 74 Resp: 40295

Ion	Ratio	Lower	Upper
74	100		
42	85.9	100.0	150.0#
44	7.0	6.7	10.1

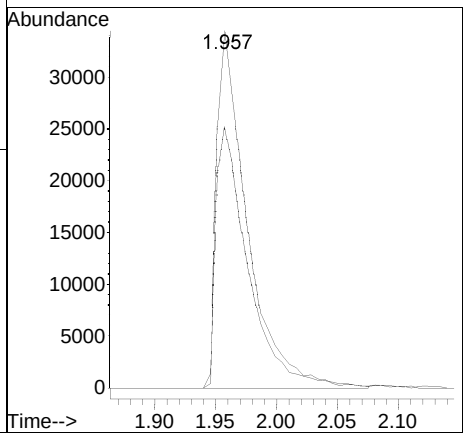


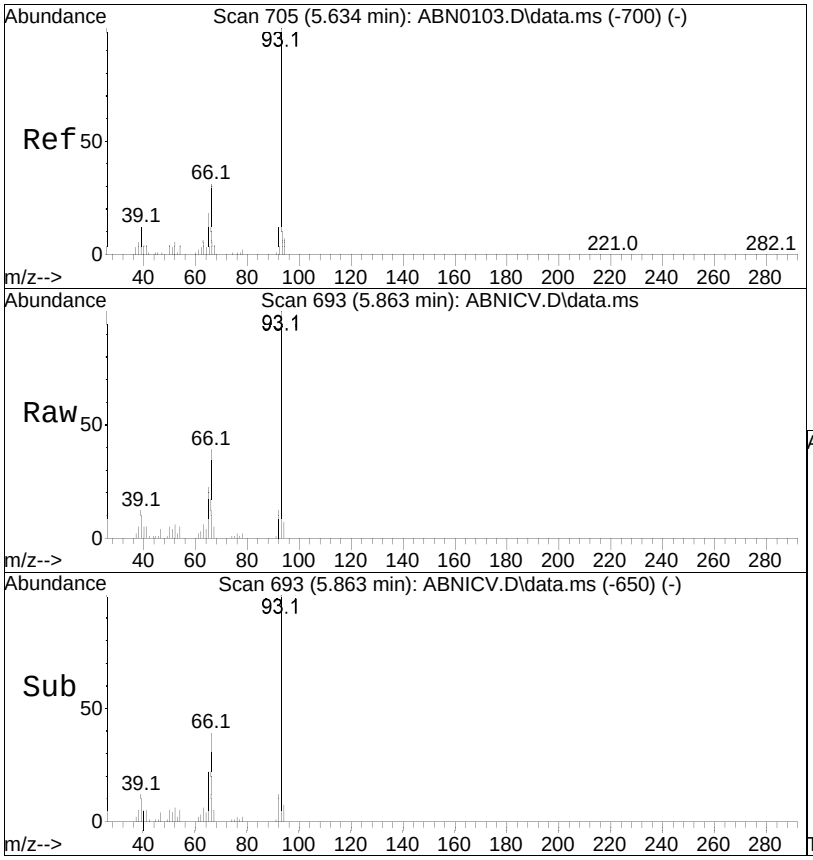


#3
Pyridine
Concen: 4.42 ug/ml
RT: 1.957 min Scan# 29
Delta R.T. -0.012 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 79 Resp: 59684

Ion	Ratio	Lower	Upper
79	100		
52	77.5	93.1	139.7#

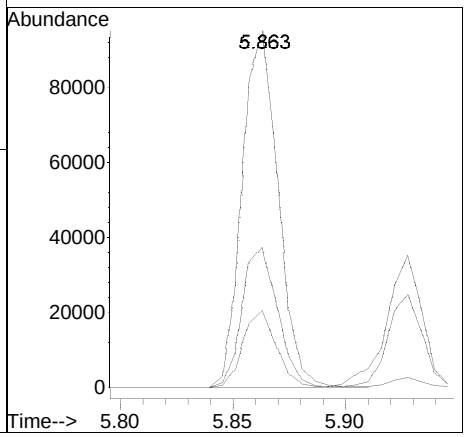


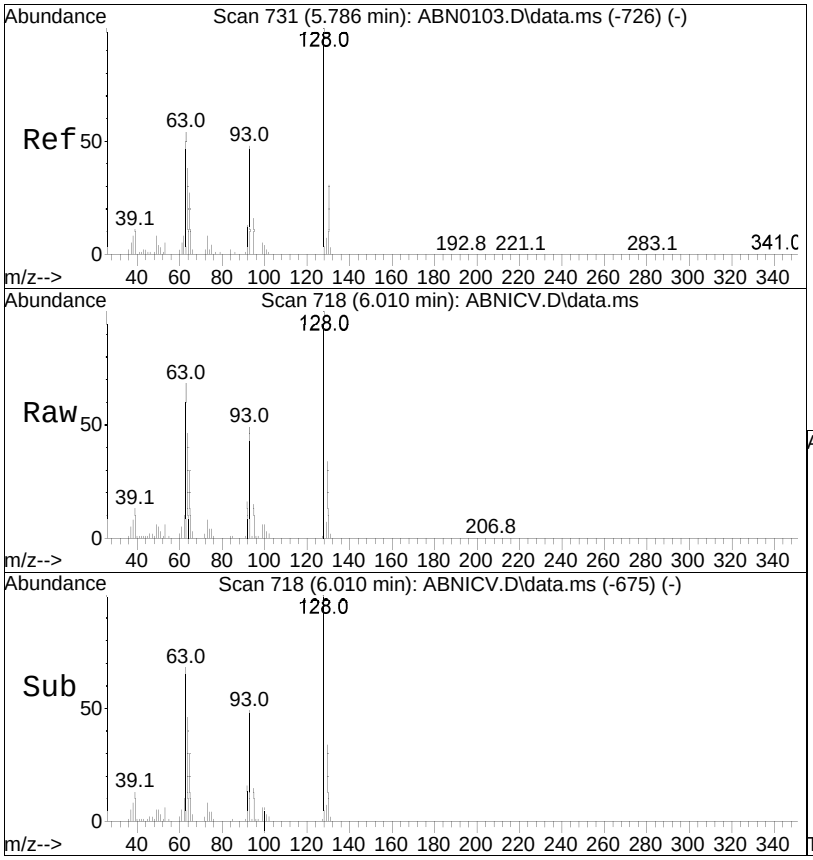


#5
Aniline
Concen: 4.73 ug/ml
RT: 5.863 min Scan# 693
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 93 Resp: 105271

Ion	Ratio	Lower	Upper
93	100		
66	39.1	32.6	49.0
65	20.4	17.6	26.4

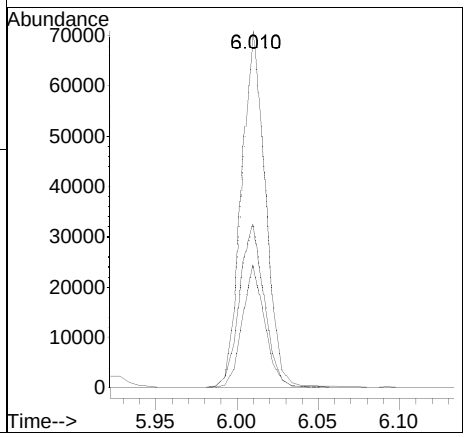


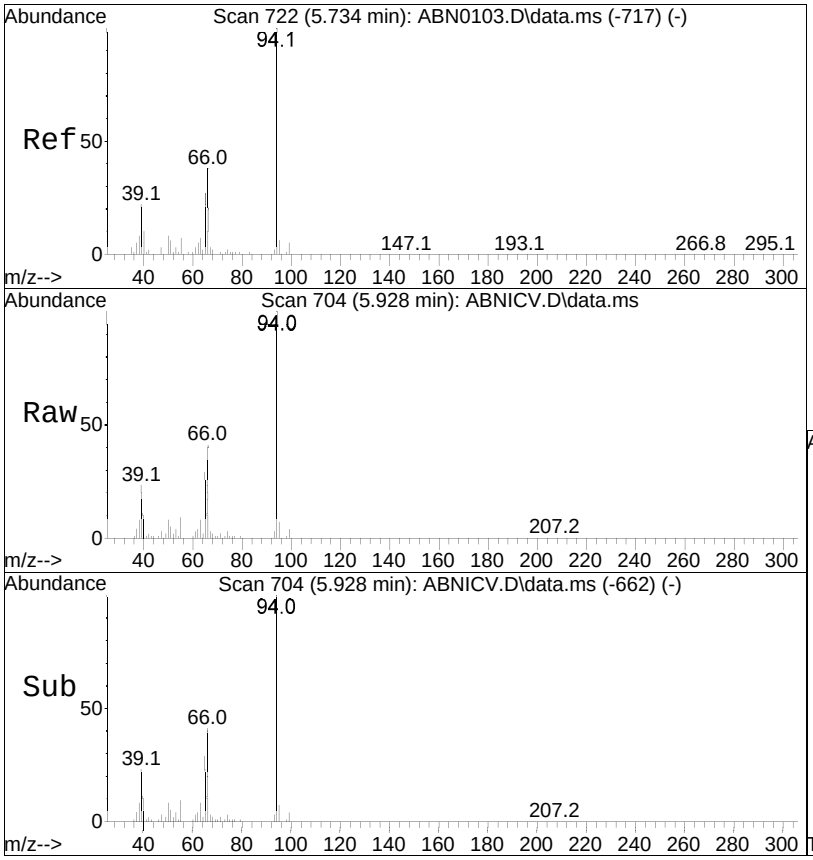


#6
2-Chlorophenol
Concen: 4.86 ug/ml
RT: 6.010 min Scan# 718
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:128 Resp: 72678

Ion	Ratio	Lower	Upper
128	100		
64	47.4	45.1	67.7
130	32.3	26.2	39.4

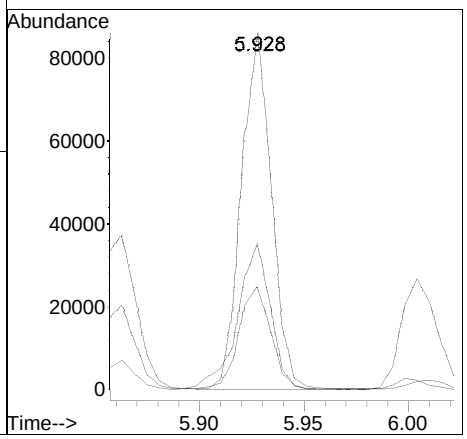


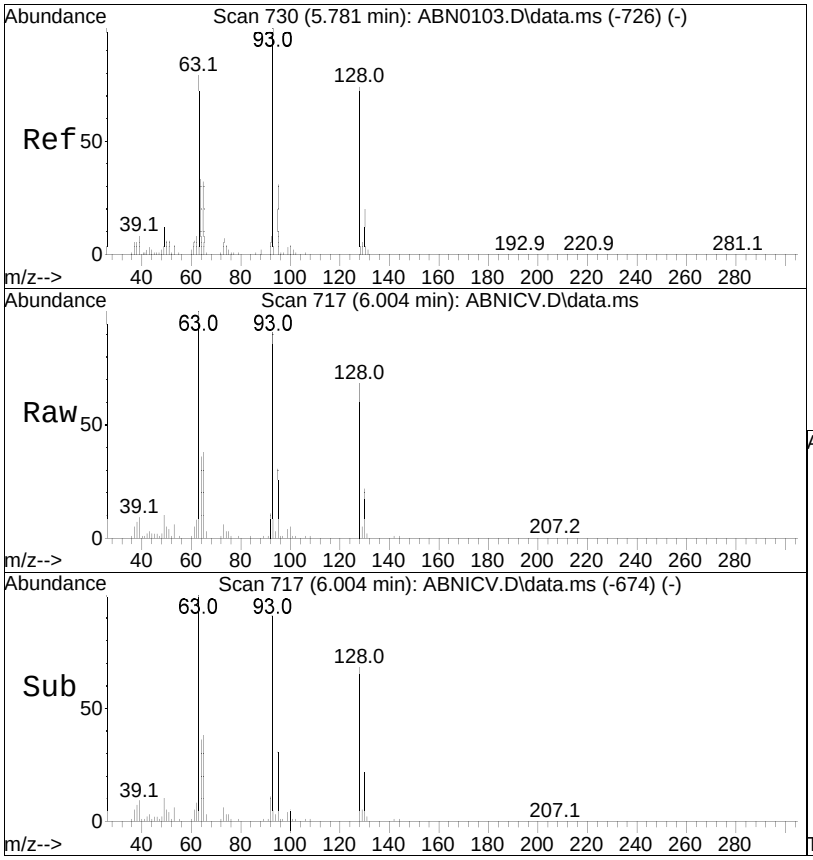


#8
Phenol
Concen: 4.83 ug/ml
RT: 5.928 min Scan# 704
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 94 Resp: 86378

Ion	Ratio	Lower	Upper
94	100		
65	30.8	26.0	39.0
66	45.1	33.8	50.8

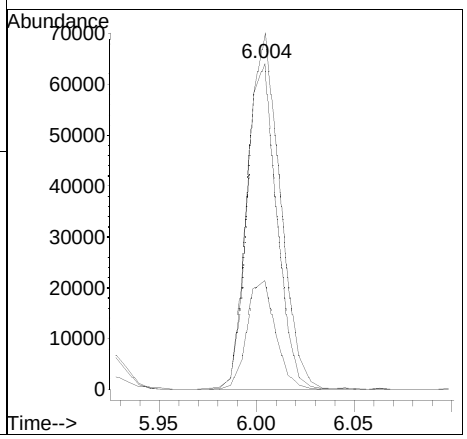


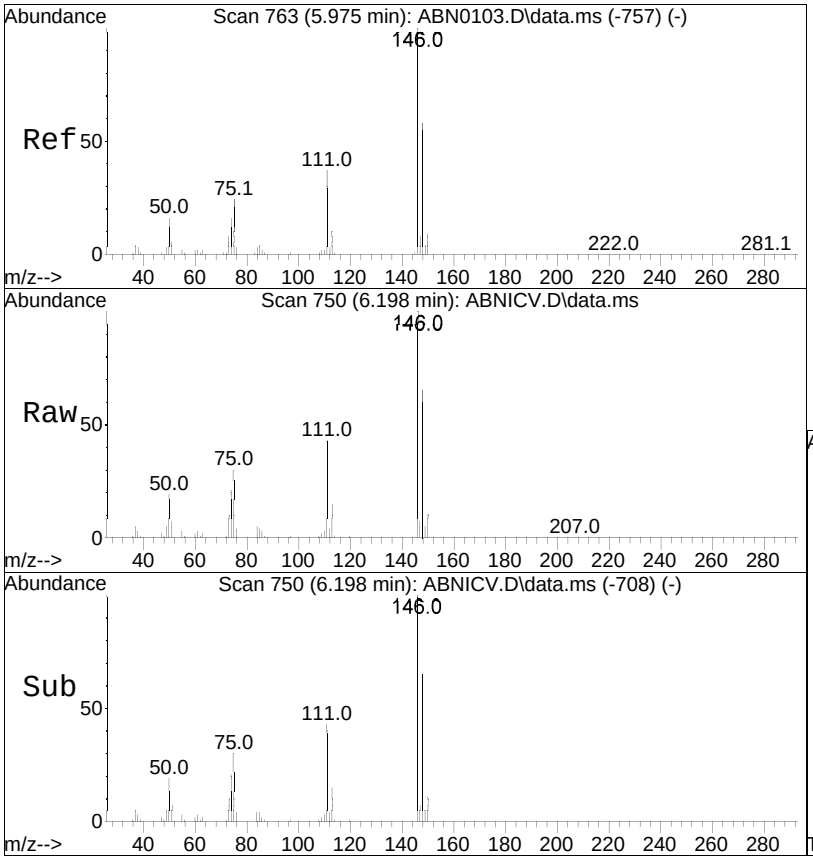


#9
Bis(2-chloroethyl)ether
Concen: 4.78 ug/ml
RT: 6.004 min Scan# 717
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 93 Resp: 68605

Ion	Ratio	Lower	Upper
93	100		
63	115.7	74.6	111.8#
95	32.0	25.9	38.9

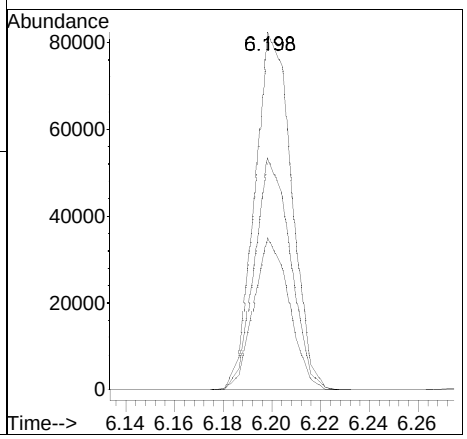


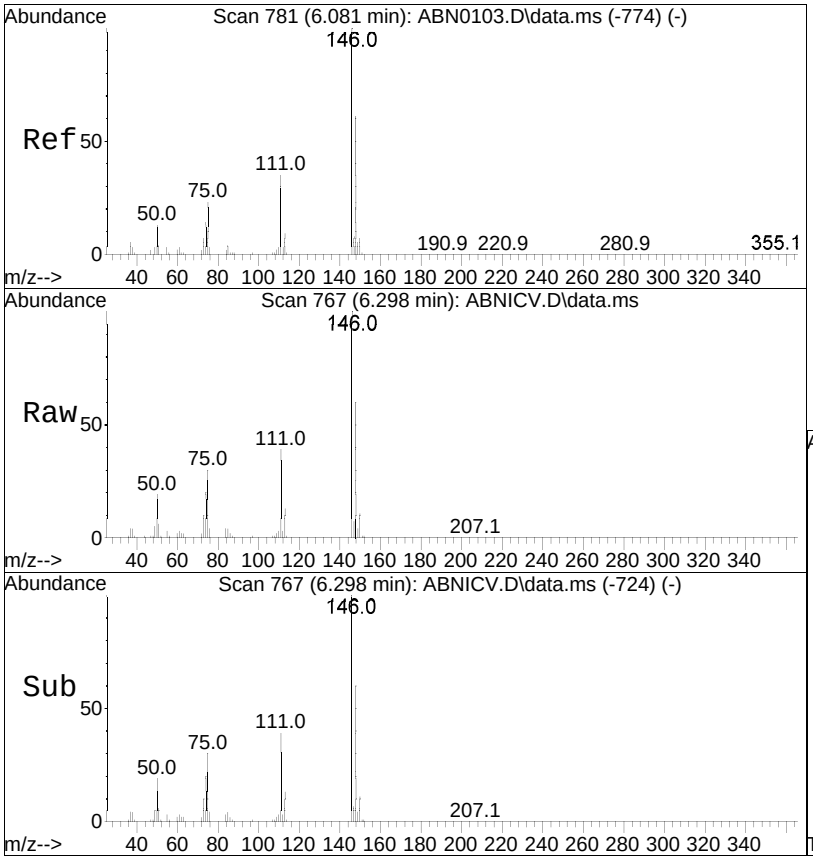


#10
1,3-Dichlorobenzene
Concen: 5.01 ug/ml
RT: 6.198 min Scan# 750
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:146 Resp: 86058

Ion	Ratio	Lower	Upper
146	100		
111	41.2	34.3	51.5
148	63.5	50.8	76.2

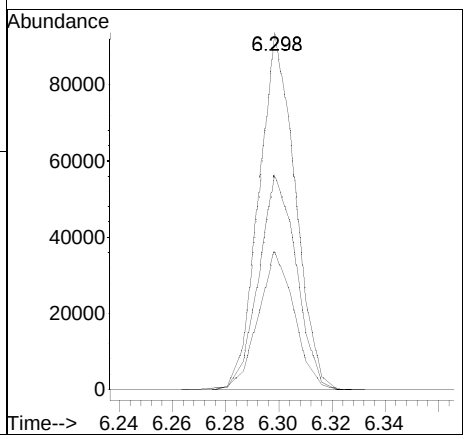


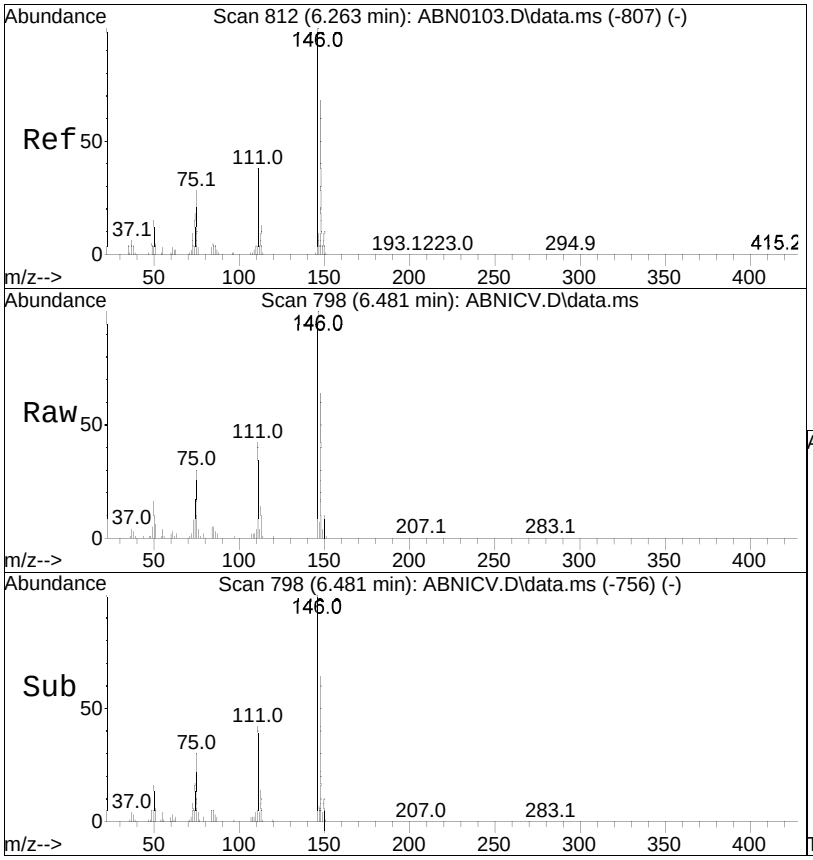


#11
1,4-Dichlorobenzene
Concen: 5.02 ug/ml
RT: 6.298 min Scan# 767
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:146 Resp: 88690

Ion	Ratio	Lower	Upper
146	100		
148	62.2	50.7	76.1
111	38.9	33.4	50.0

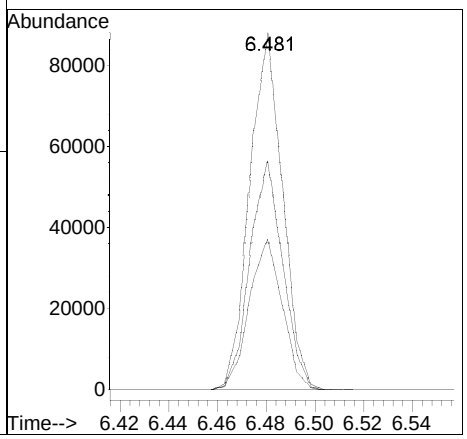


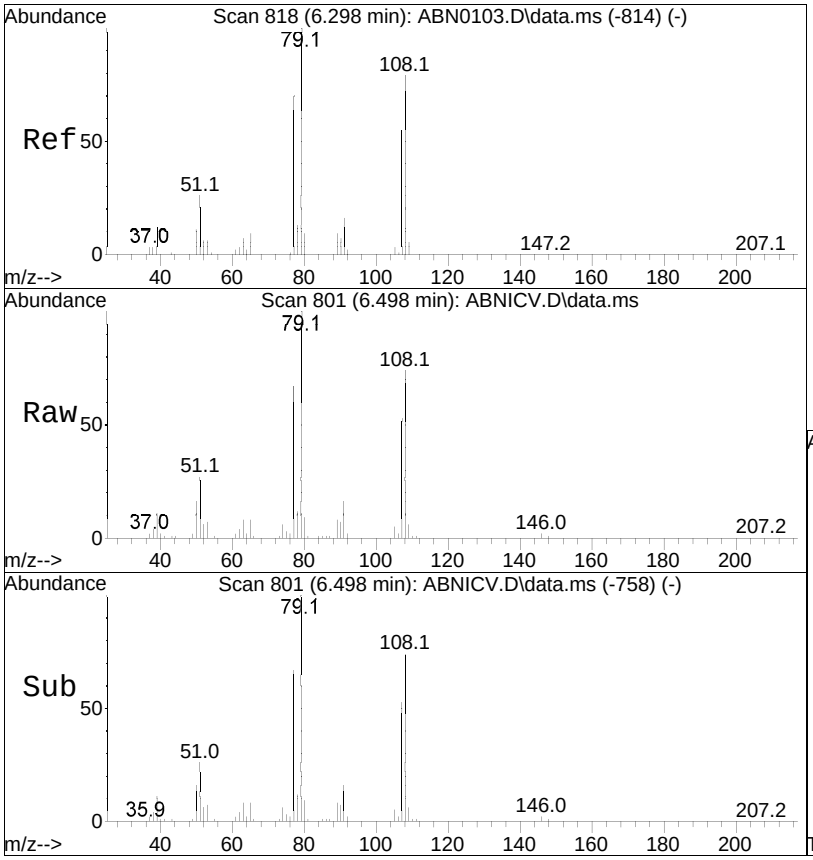


#12
1,2-Dichlorobenzene
Concen: 4.91 ug/ml
RT: 6.481 min Scan# 798
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:146 Resp: 82512

Ion	Ratio	Lower	Upper
146	100		
111	42.8	34.6	52.0
148	64.3	50.2	75.4

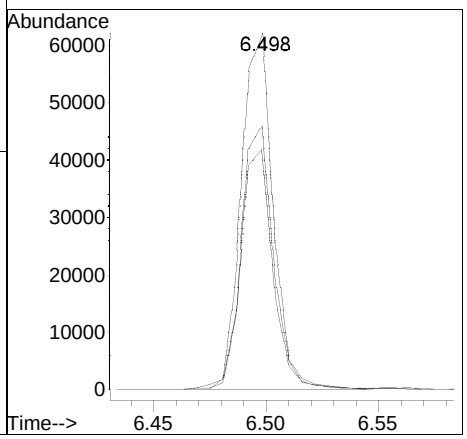


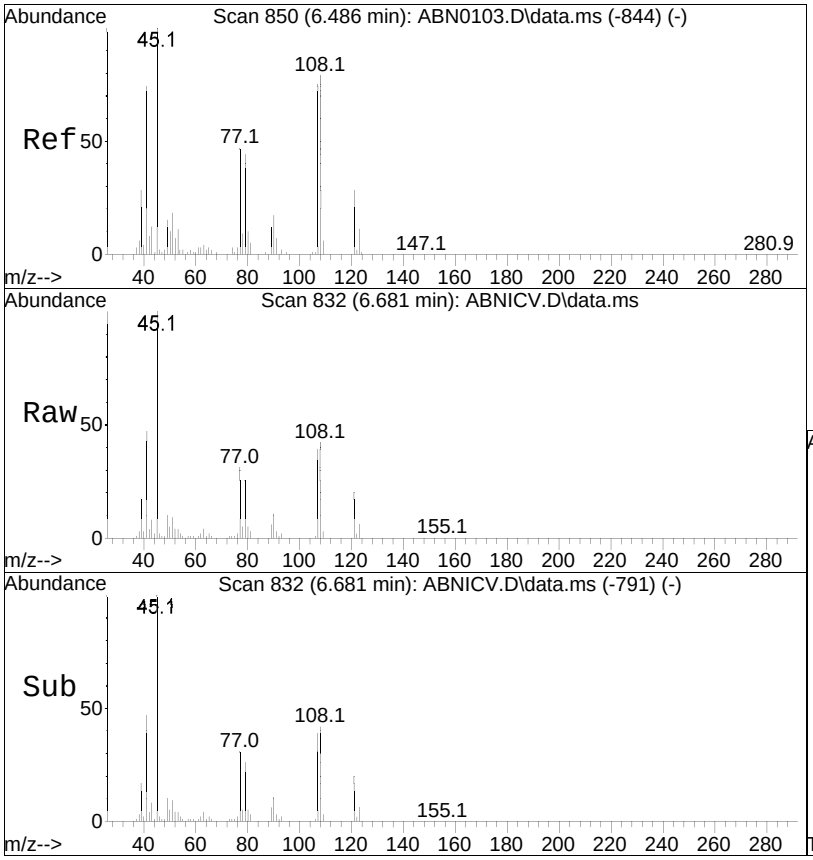


#13
Benzyl alcohol
Concen: 4.86 ug/ml
RT: 6.498 min Scan# 801
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 79 Resp: 61266

Ion	Ratio	Lower	Upper
79	100		
77	67.8	54.9	82.3
108	75.0	63.1	94.7

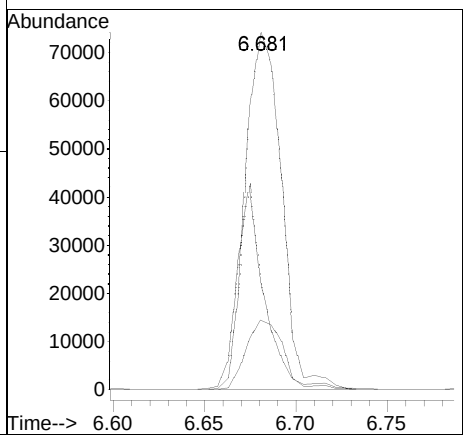


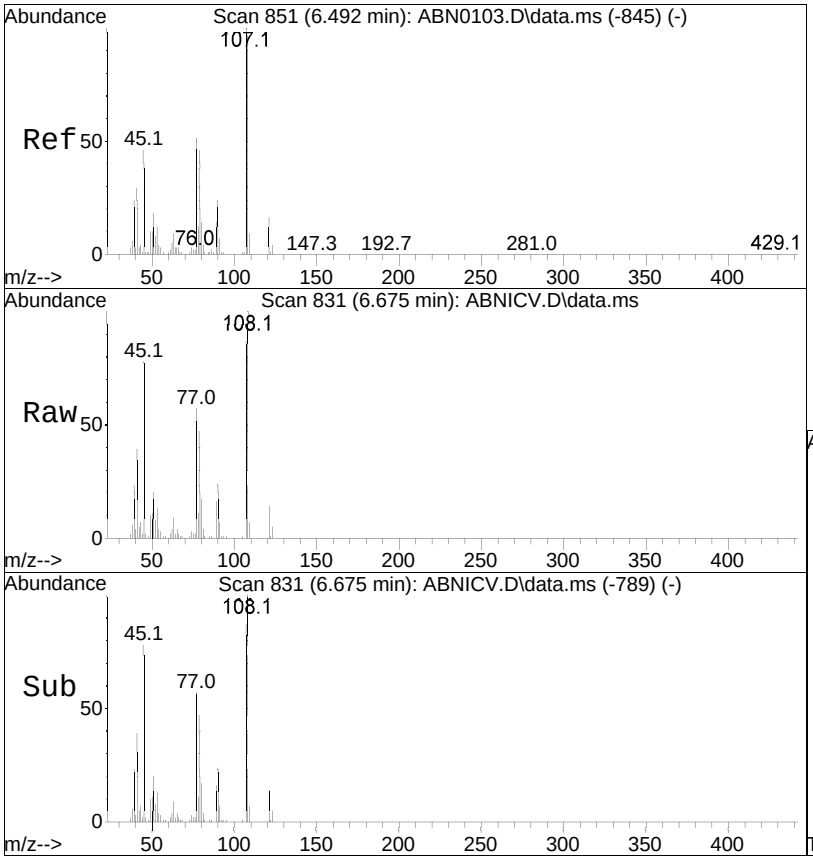


#14
Bis(2-chloroisopropyl)ether
Concen: 4.78 ug/ml
RT: 6.681 min Scan# 832
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 45 Resp: 101104

Ion	Ratio	Lower	Upper
45	100		
121	20.2	9.8	14.6#
77	43.5	6.1	9.1#

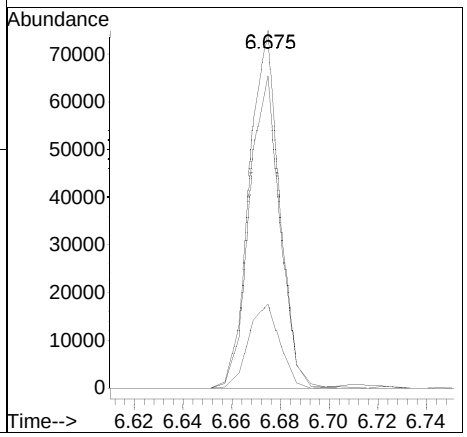


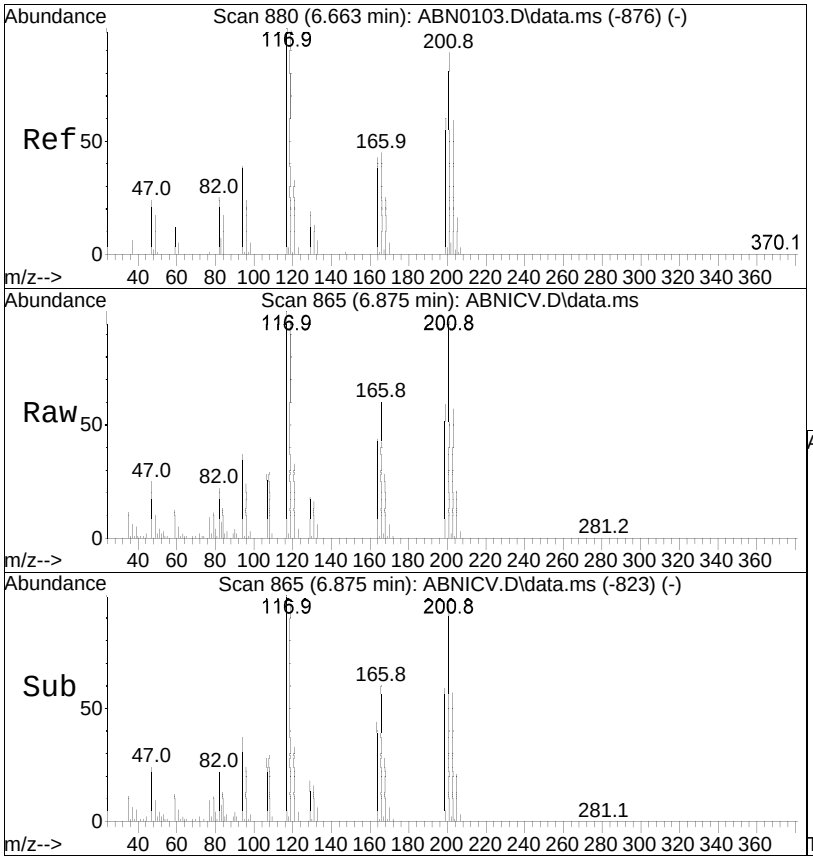


#15
2-Methylphenol
Concen: 4.83 ug/ml
RT: 6.675 min Scan# 831
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:108 Resp: 64492

Ion	Ratio	Lower	Upper
108	100		
107	88.6	70.7	106.1
90	24.4	18.7	28.1

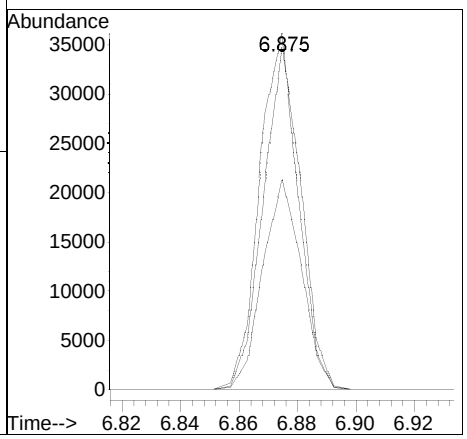


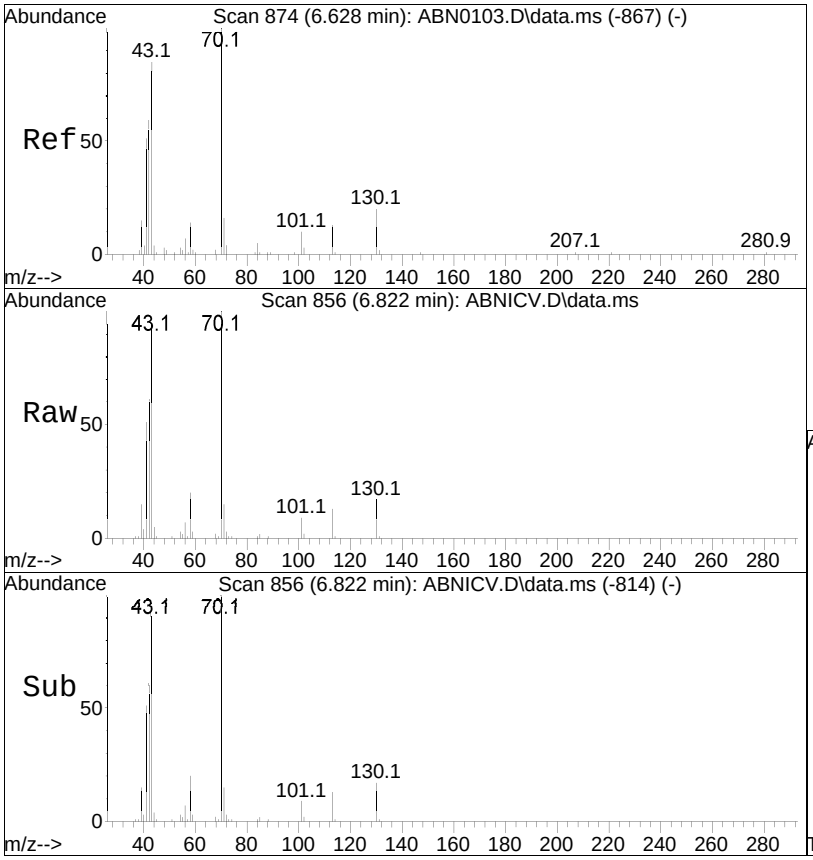


#16
Hexachloroethane
Concen: 4.80 ug/ml
RT: 6.875 min Scan# 865
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:117 Resp: 33051

Ion	Ratio	Lower	Upper
117	100		
201	94.7	58.6	87.8#
199	59.7	36.9	55.3#

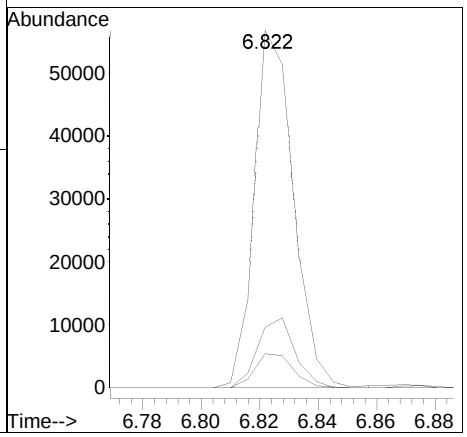


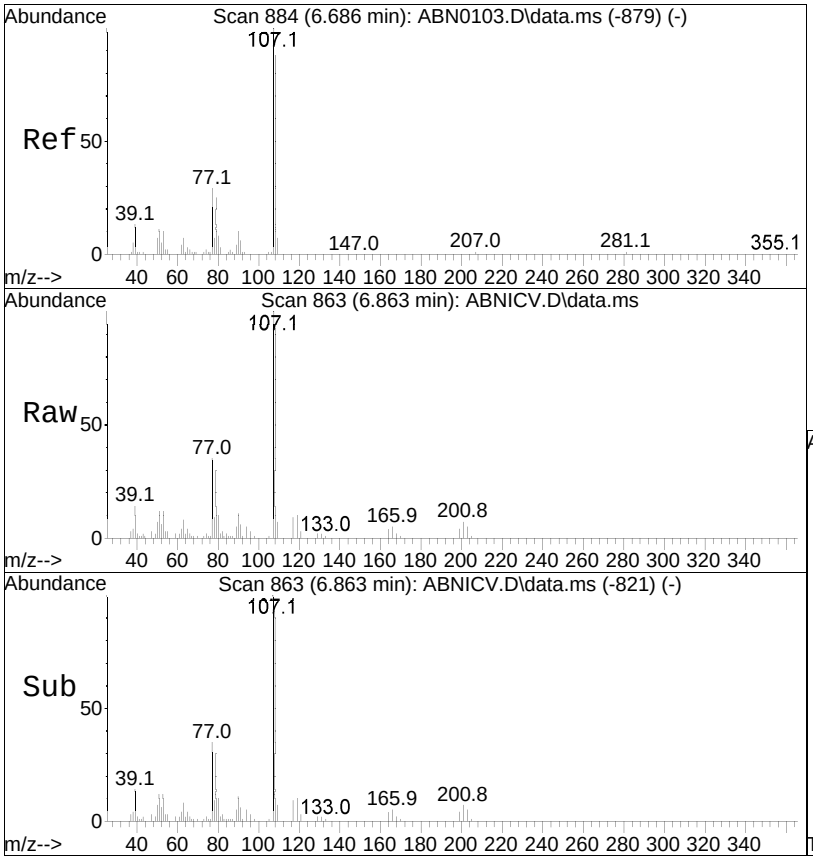


#17
n-Nitrosodi-n-propylamine
Concen: 4.85 ug/ml
RT: 6.822 min Scan# 856
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 70 Resp: 52624

Ion	Ratio	Lower	Upper
70	100		
130	18.6	18.2	27.4
101	9.4	7.8	11.8

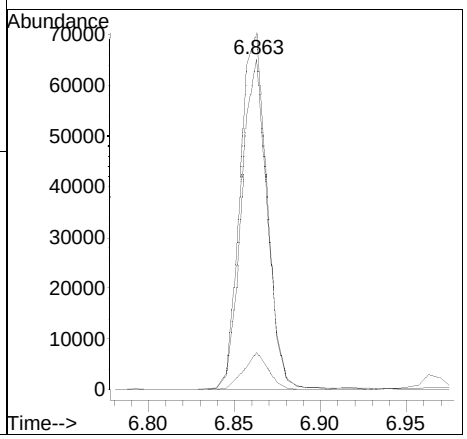


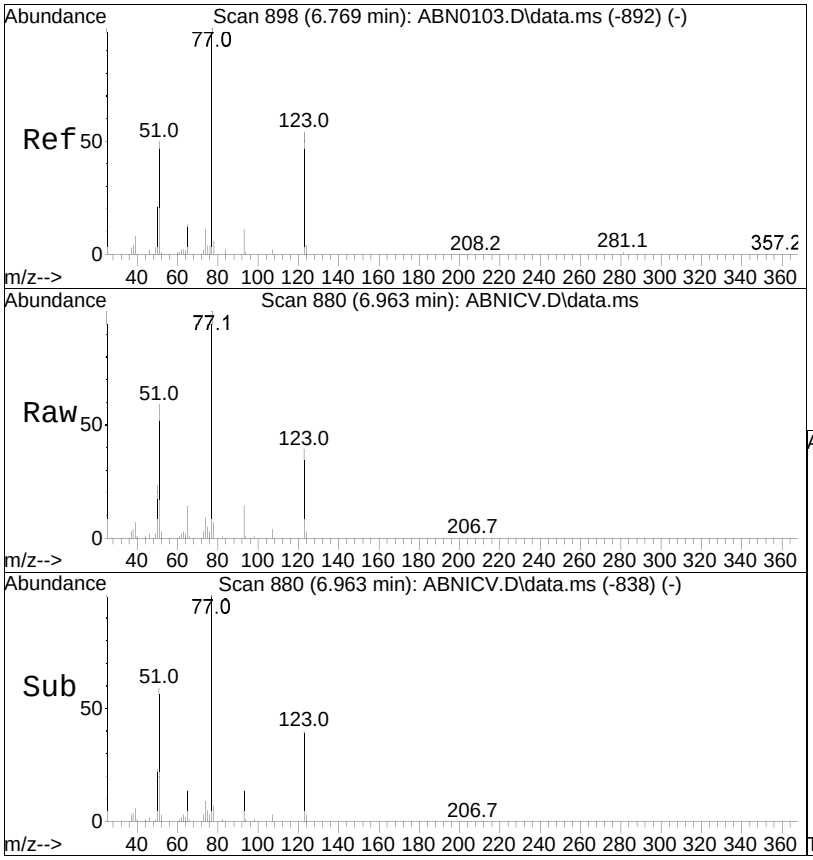


#18
3-Methylphenol/4-Methylphenol
Concen: 4.85 ug/ml
RT: 6.863 min Scan# 863
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:108 Resp: 68011

Ion	Ratio	Lower	Upper
108	100		
107	111.8	88.6	132.8
90	10.6	8.8	13.2

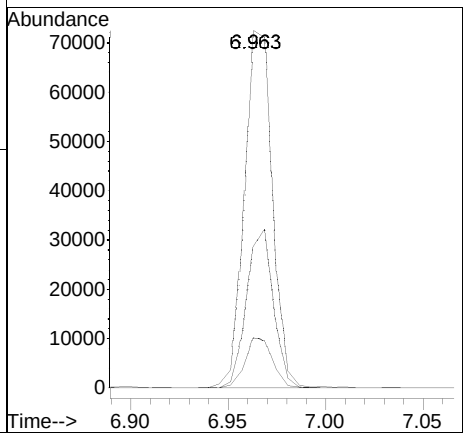


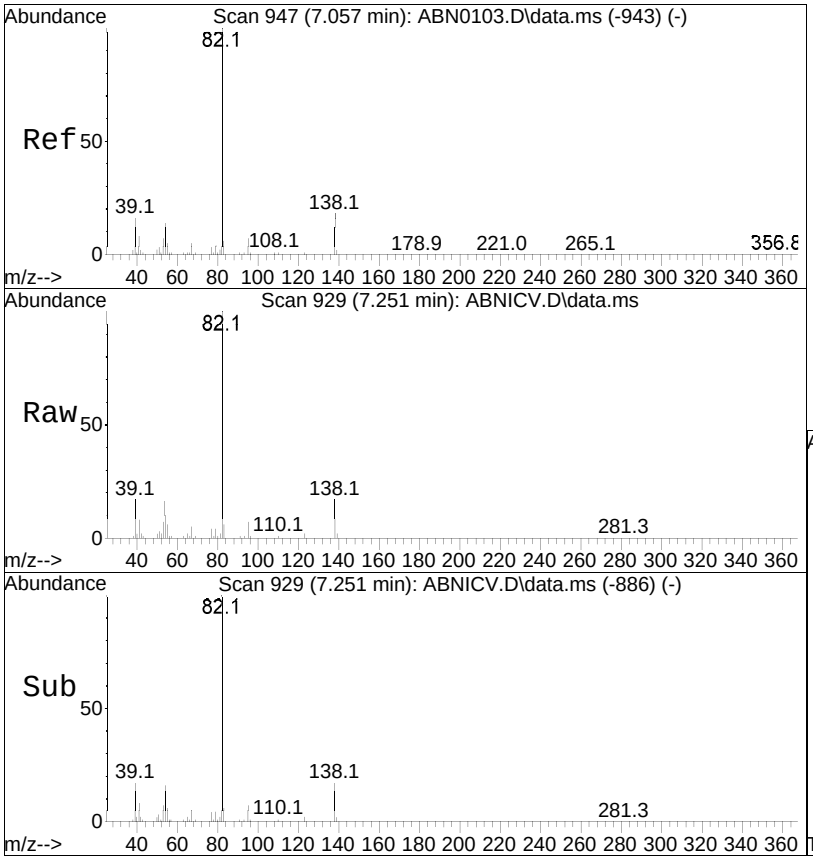


#20
Nitrobenzene
Concen: 4.72 ug/ml
RT: 6.963 min Scan# 880
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 77 Resp: 71851

Ion	Ratio	Lower	Upper
77	100		
123	42.5	36.3	54.5
65	14.0	11.6	17.4

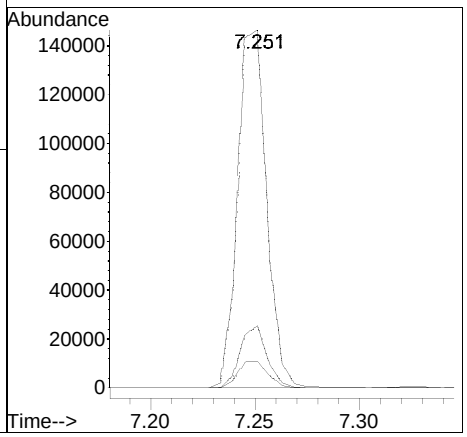


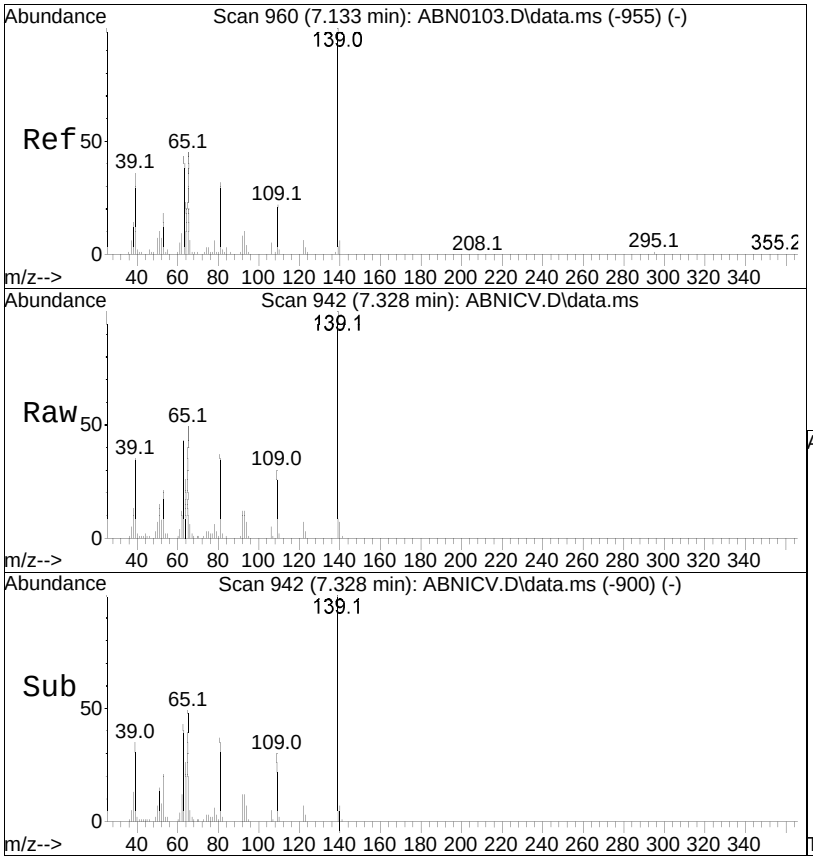


#21
Isophorone
Concen: 4.79 ug/ml
RT: 7.251 min Scan# 929
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 82 Resp: 139339

Ion	Ratio	Lower	Upper
82	100		
138	16.1	14.7	22.1
95	7.7	5.2	7.8

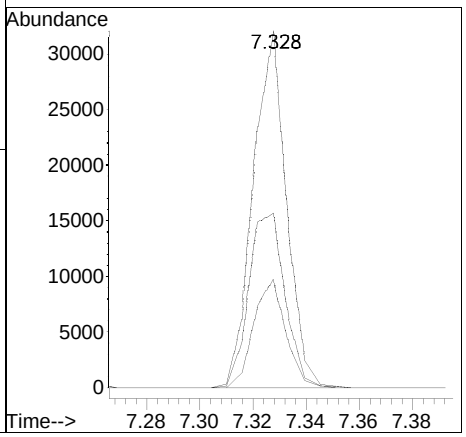


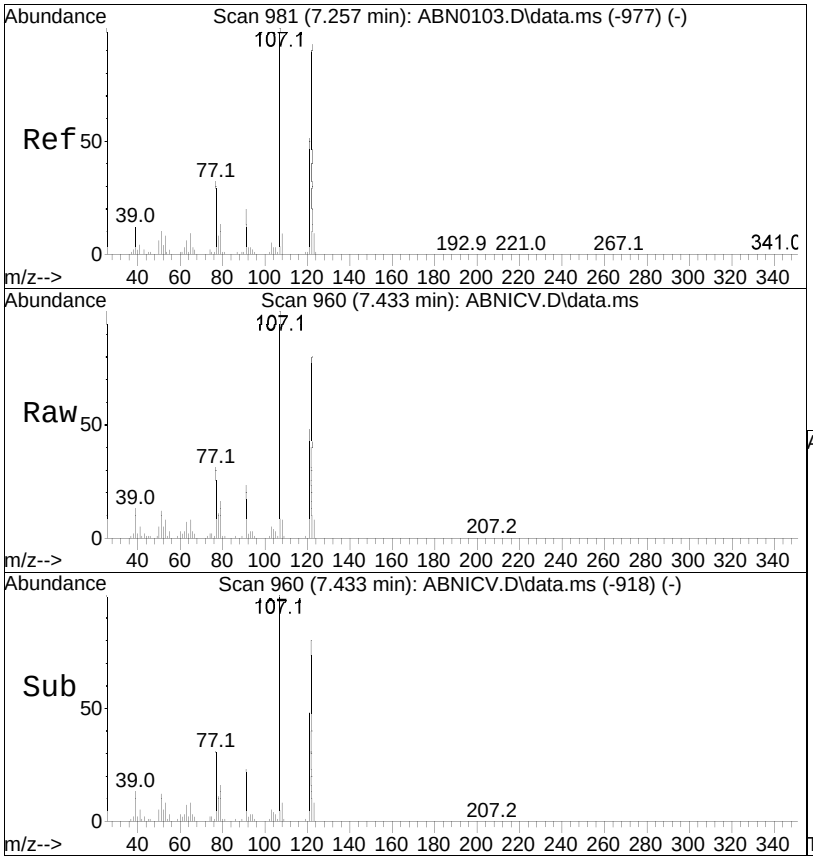


#22
2-Nitrophenol
Concen: 4.54 ug/ml
RT: 7.328 min Scan# 942
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:139 Resp: 27634

Ion	Ratio	Lower	Upper
139	100		
109	29.6	19.4	29.0#
65	53.6	46.1	69.1

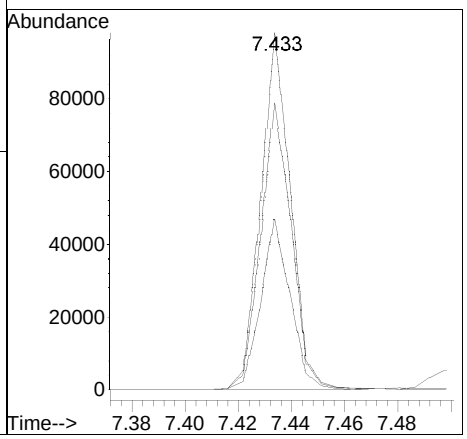


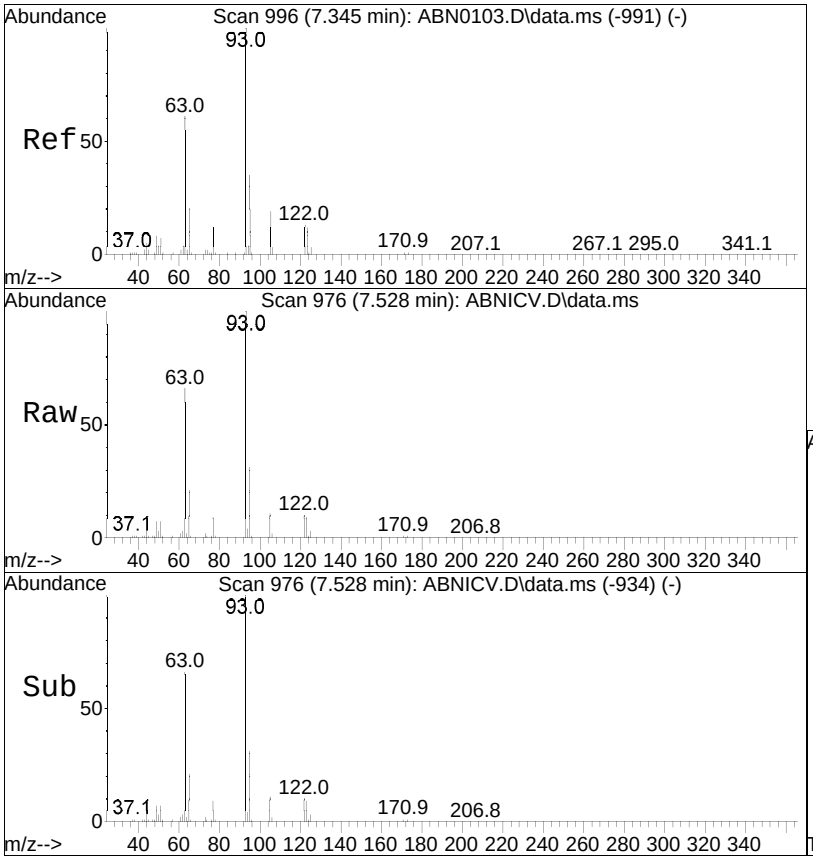


#23
2,4-Dimethylphenol
Concen: 5.03 ug/ml
RT: 7.433 min Scan# 960
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:107 Resp: 75608

Ion	Ratio	Lower	Upper
107	100		
121	47.5	40.0	60.0
122	82.7	70.2	105.4

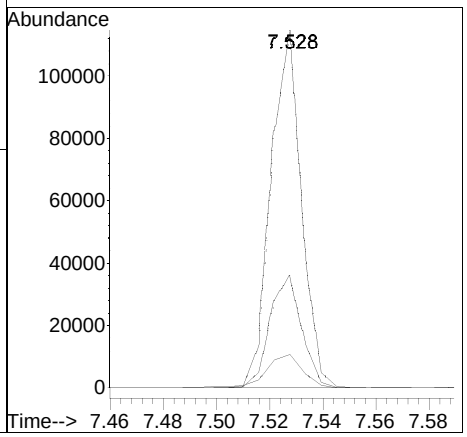


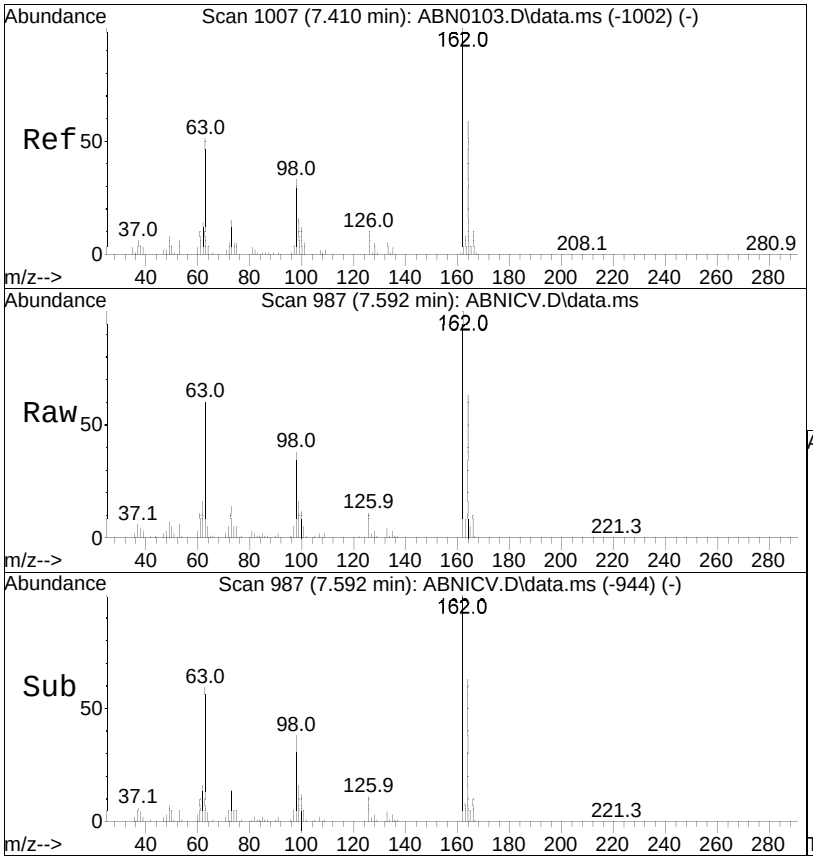


#24
Bis(2-chloroethoxy)methane
Concen: 4.97 ug/ml
RT: 7.528 min Scan# 976
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 93 Resp: 90611

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.8	38.8
123	11.4	10.1	15.1

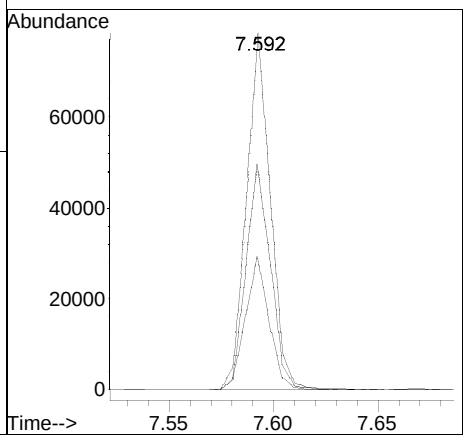


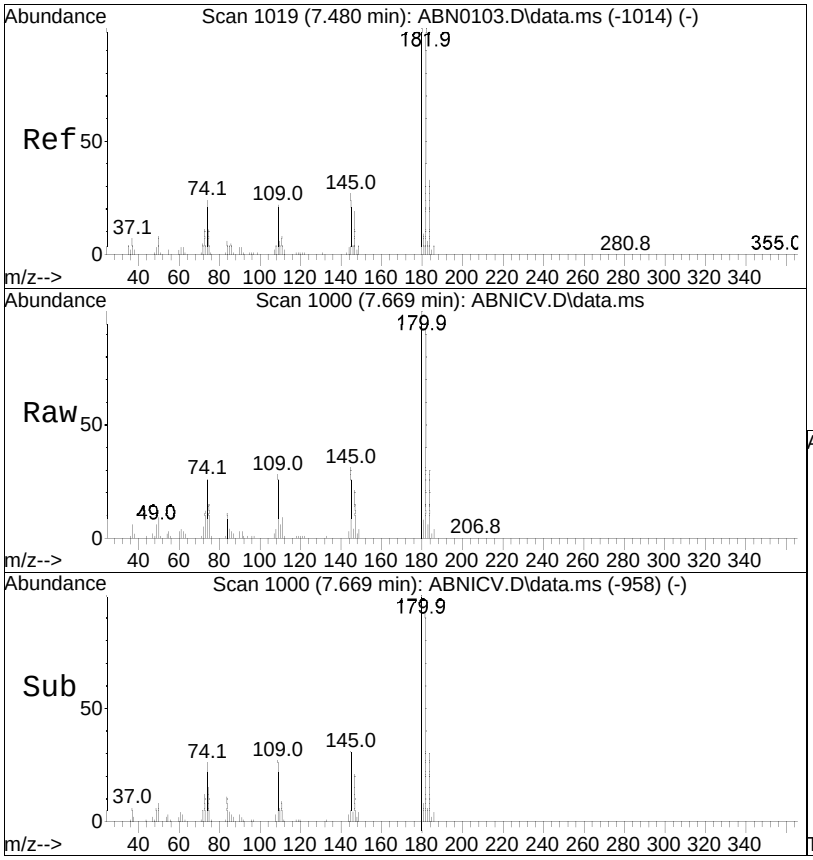


#25
2,4-Dichlorophenol
Concen: 4.93 ug/ml
RT: 7.592 min Scan# 987
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:162 Resp: 62268

Ion	Ratio	Lower	Upper
162	100		
164	64.9	51.0	76.4
98	37.1	32.2	48.2

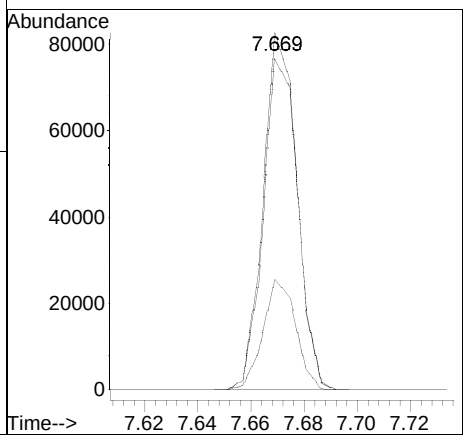


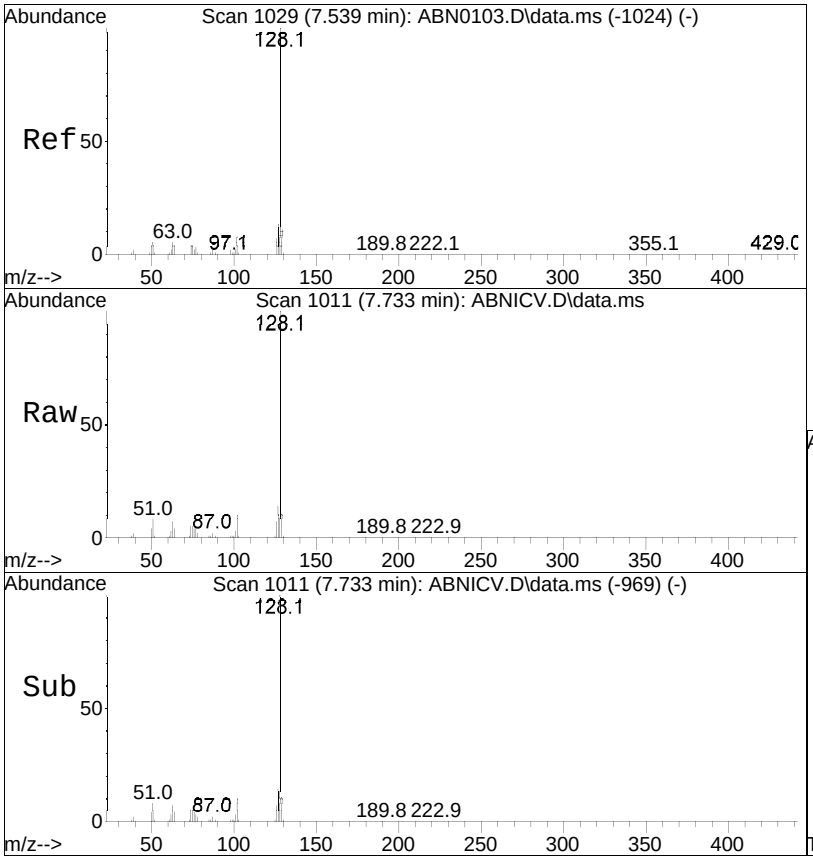


#26
1,2,4-Trichlorobenzene
Concen: 4.99 ug/ml
RT: 7.669 min Scan# 1000
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:180 Resp: 72447

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.0	114.0
145	30.2	25.7	38.5

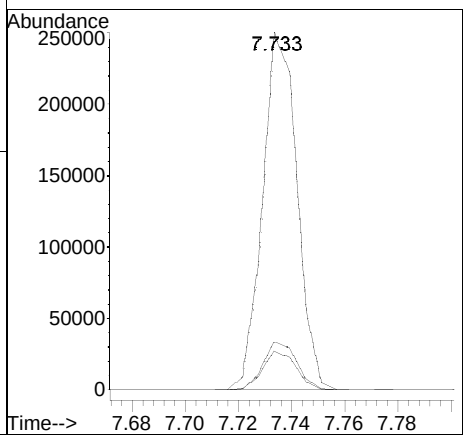


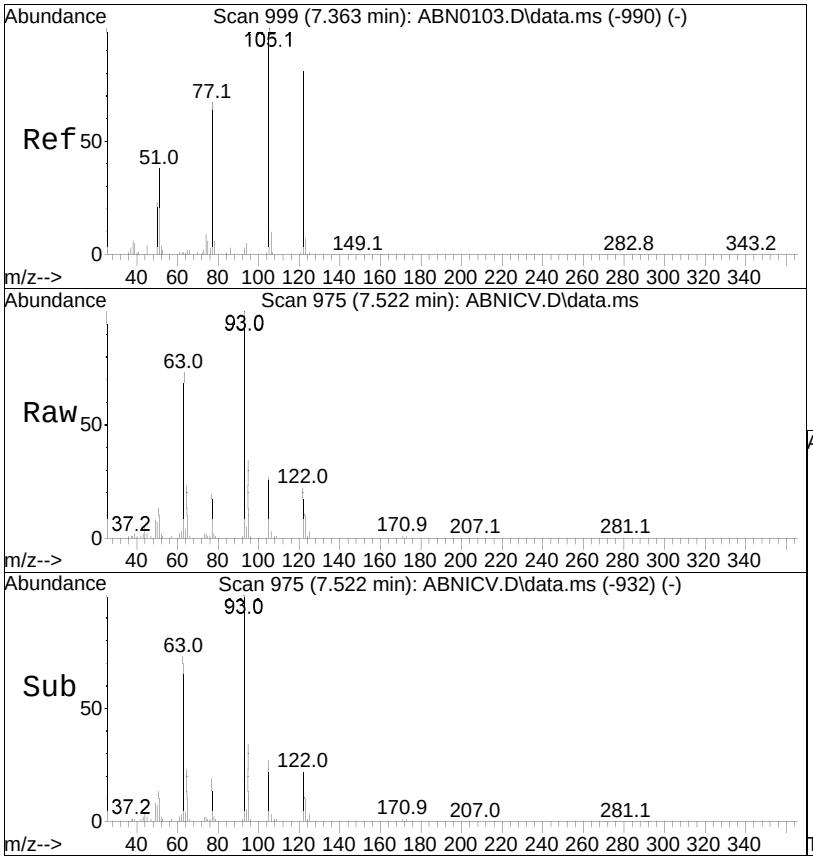


#35
Naphthalene
Concen: 4.97 ug/ml
RT: 7.733 min Scan# 1011
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:128 Resp: 222032

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.7	13.1
127	13.3	10.3	15.5

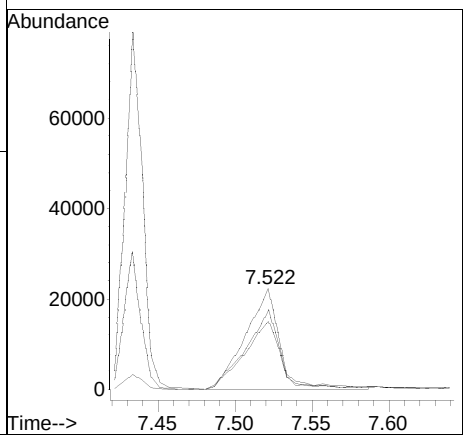


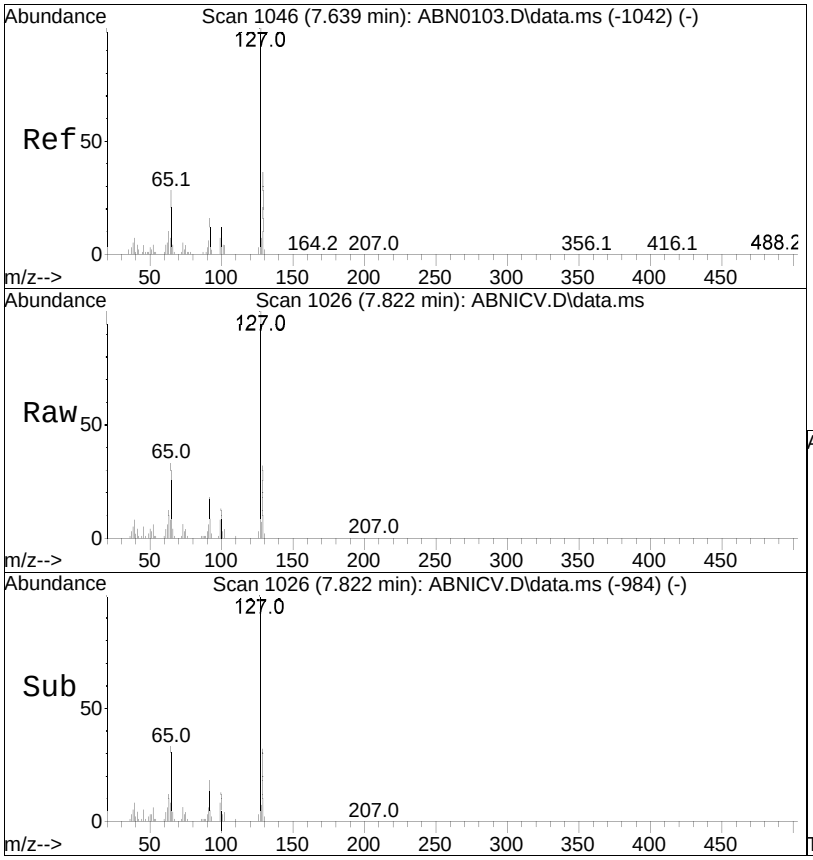


#36
Benzoic Acid
Concen: 4.51 ug/ml
RT: 7.522 min Scan# 975
Delta R.T. 0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:105 Resp: 35323

Ion	Ratio	Lower	Upper
105	100		
122	77.3	59.9	89.9
77	70.6	60.1	90.1

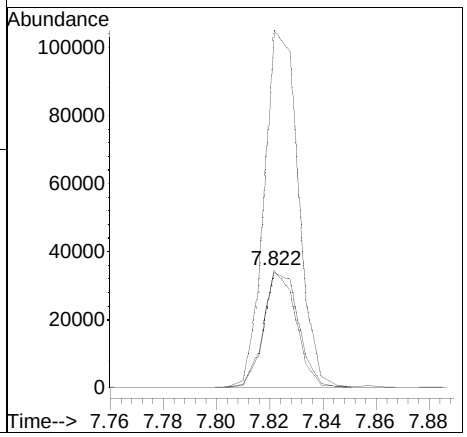


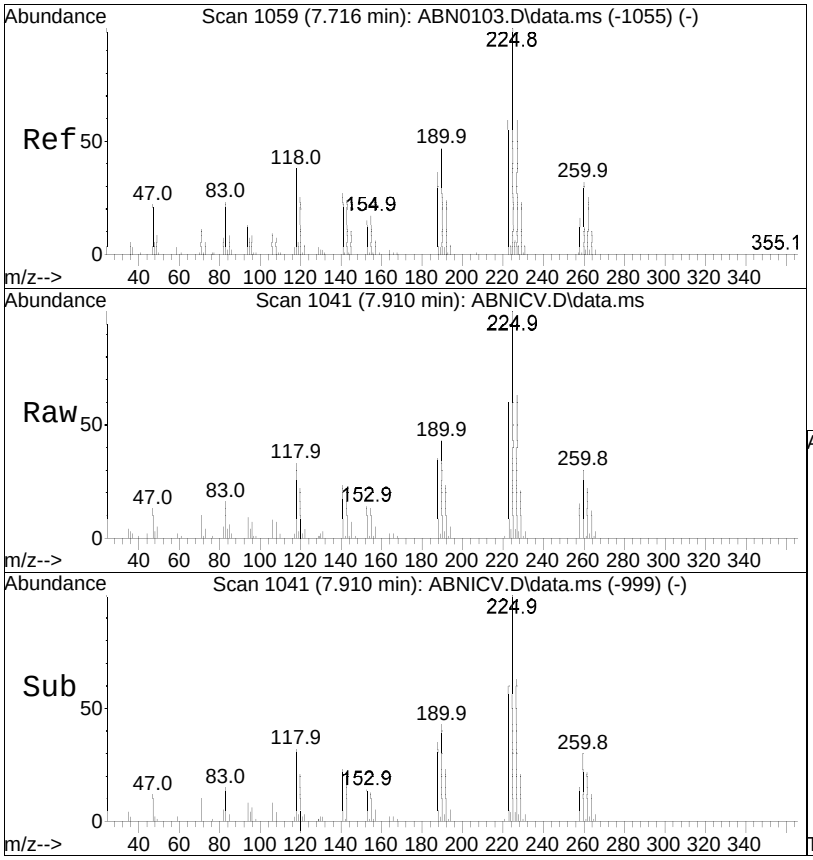


#37
4-Chloroaniline
Concen: 5.00 ug/ml
RT: 7.822 min Scan# 1026
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 65 Resp: 29251

Ion	Ratio	Lower	Upper
65	100		
127	318.2	237.6	356.4
129	104.1	76.3	114.5

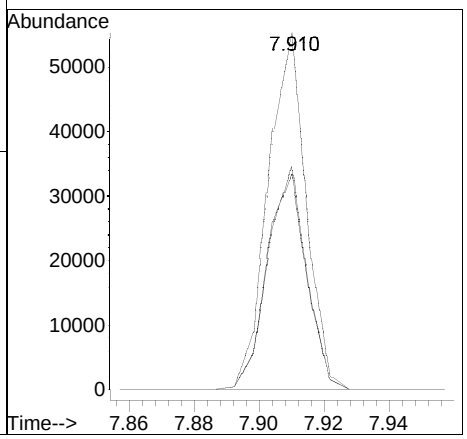


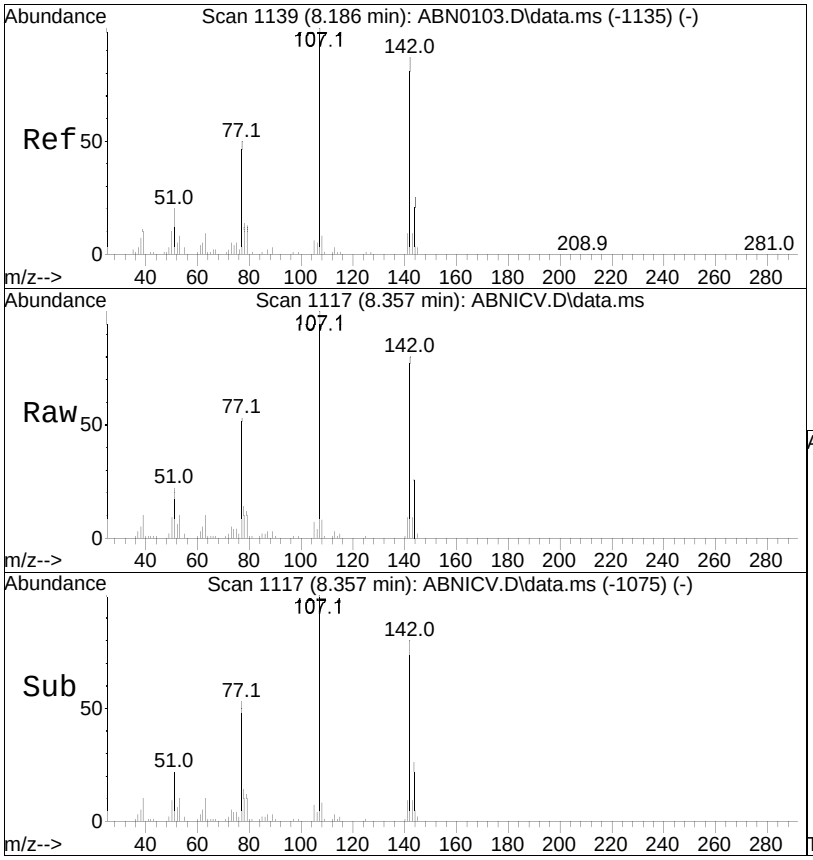


#38
Hexachlorobutadiene
Concen: 4.91 ug/ml
RT: 7.910 min Scan# 1041
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:225 Resp: 44756

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.3	75.5
227	63.8	52.2	78.2

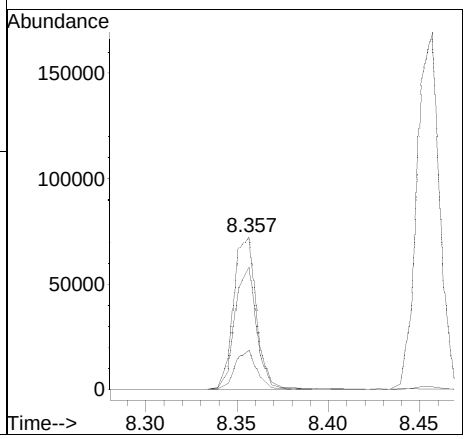


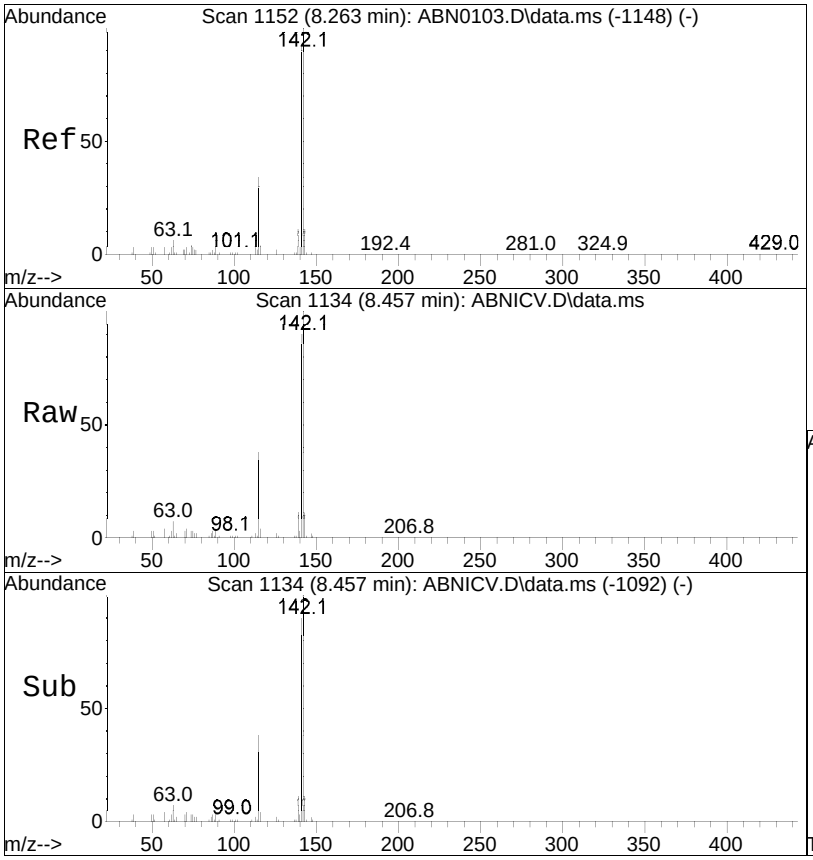


#39
p-Chloro-m-cresol
Concen: 4.93 ug/ml
RT: 8.357 min Scan# 1117
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:107 Resp: 63643

Ion	Ratio	Lower	Upper
107	100		
144	24.2	20.9	31.3
142	76.3	66.1	99.1

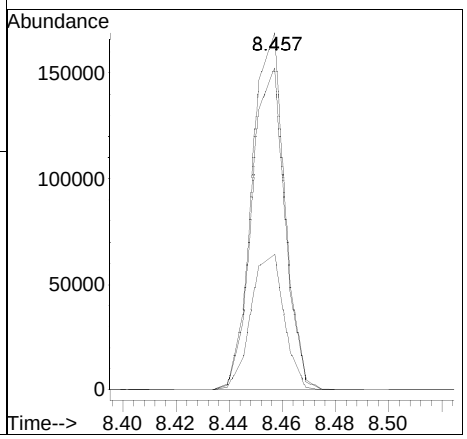


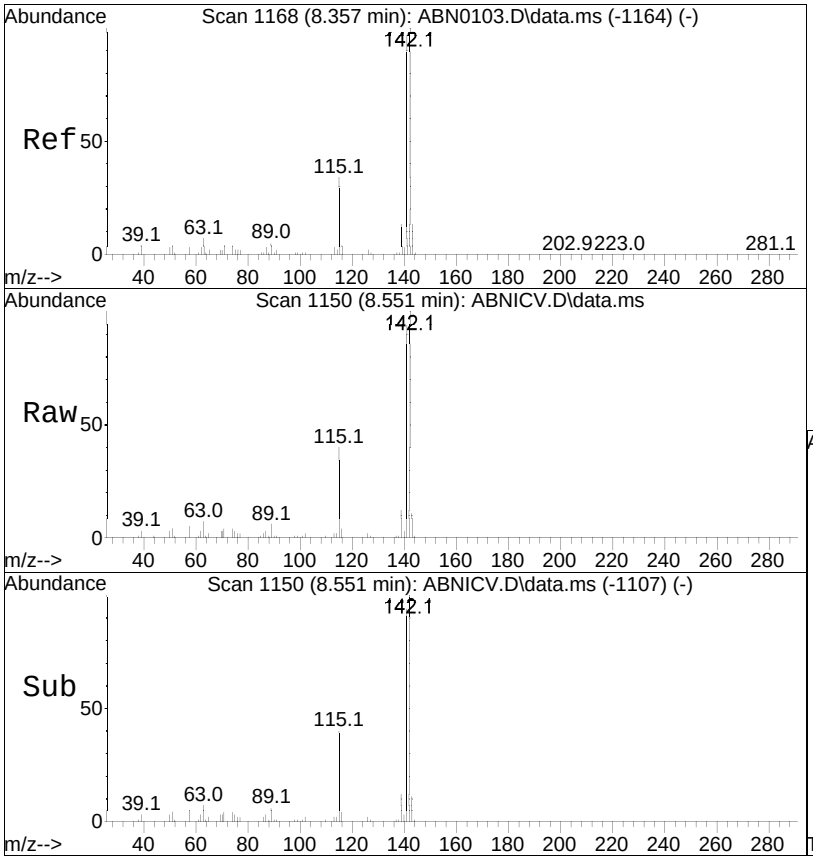


#40
2-Methylnaphthalene
Concen: 5.09 ug/ml
RT: 8.457 min Scan# 1134
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:142 Resp: 144820

Ion	Ratio	Lower	Upper
142	100		
141	90.4	69.6	104.4
115	38.7	26.6	40.0

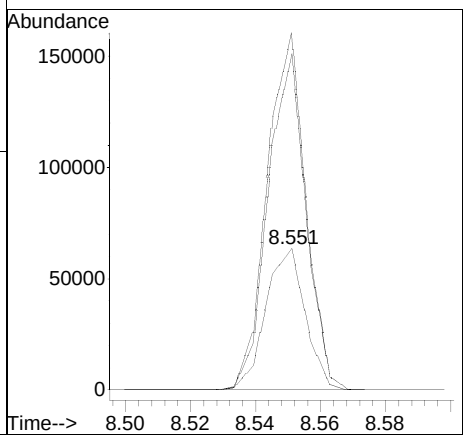


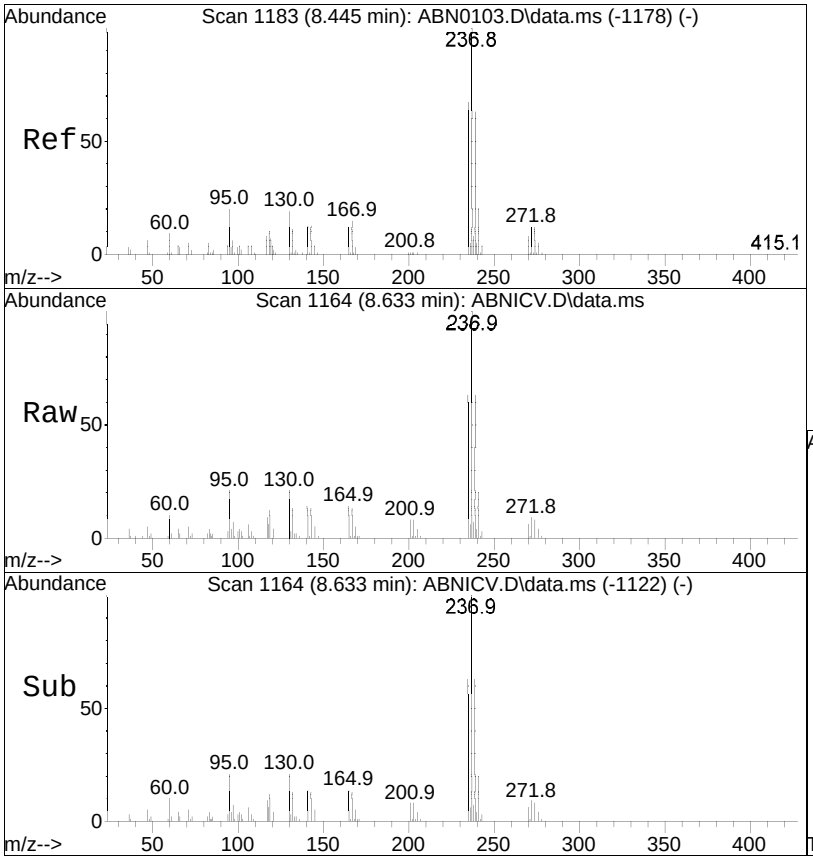


#41
1-Methylnaphthalene
Concen: 5.04 ug/ml
RT: 8.551 min Scan# 1150
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:115 Resp: 53738

Ion	Ratio	Lower	Upper
115	100		
141	227.4	207.8	311.6
142	246.8	226.8	340.2

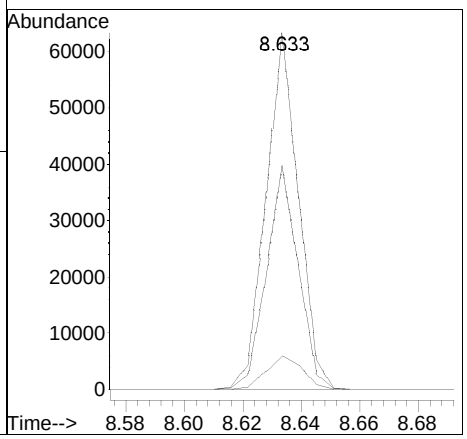


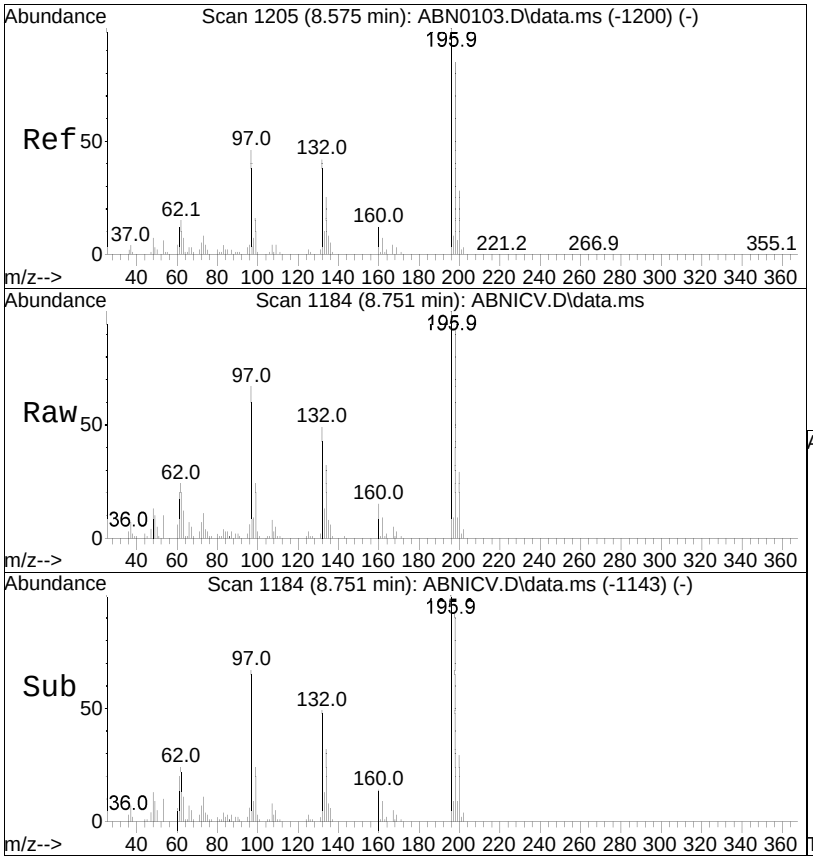


#42
Hexachlorocyclopentadiene
Concen: 5.00 ug/ml
RT: 8.633 min Scan# 1164
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:237 Resp: 48573

Ion	Ratio	Lower	Upper
237	100		
235	61.6	49.7	74.5
272	10.6	9.8	14.6

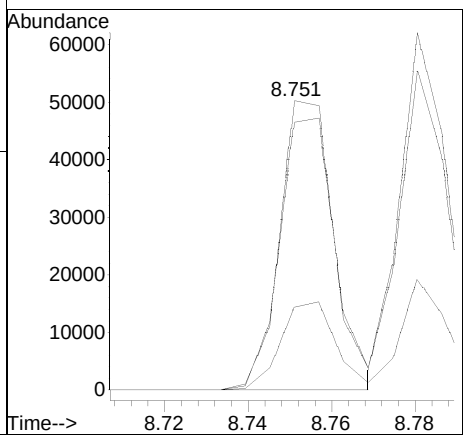


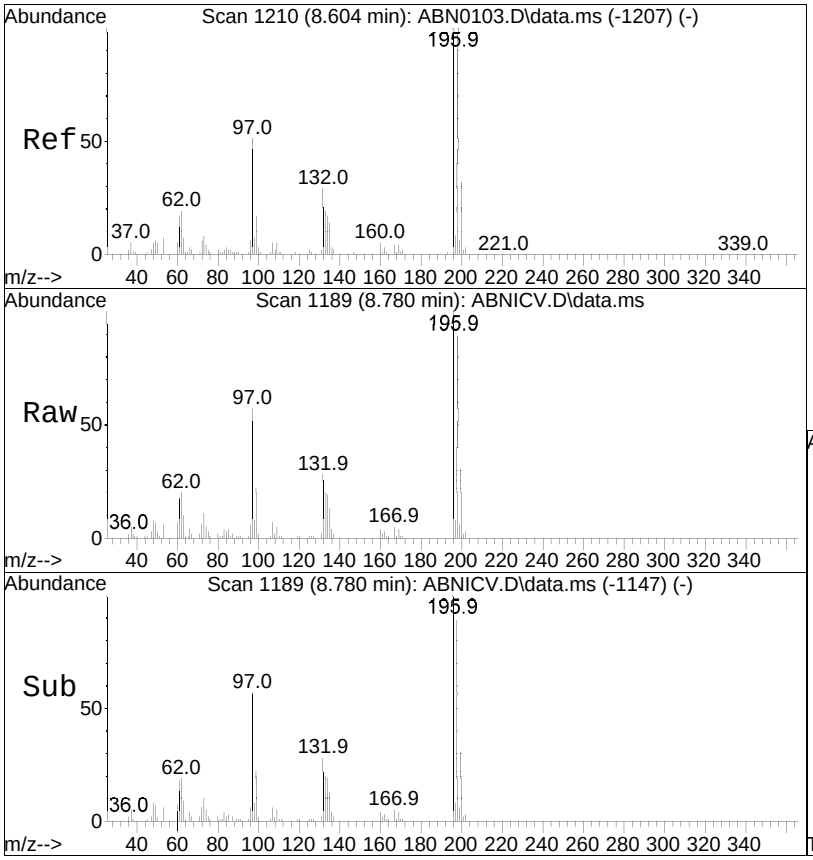


#43
2,4,6-Trichlorophenol
Concen: 4.88 ug/ml
RT: 8.751 min Scan# 1184
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:196 Resp: 45102

Ion	Ratio	Lower	Upper
196	100		
198	96.7	77.5	116.3
200	31.2	23.8	35.6

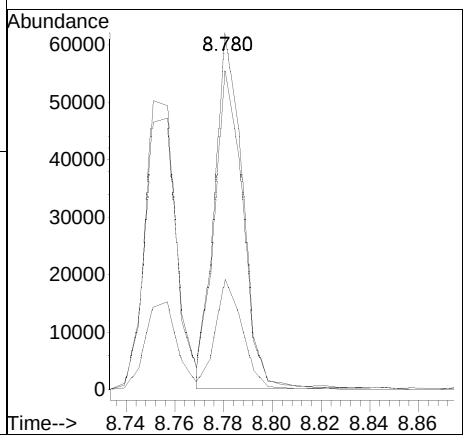


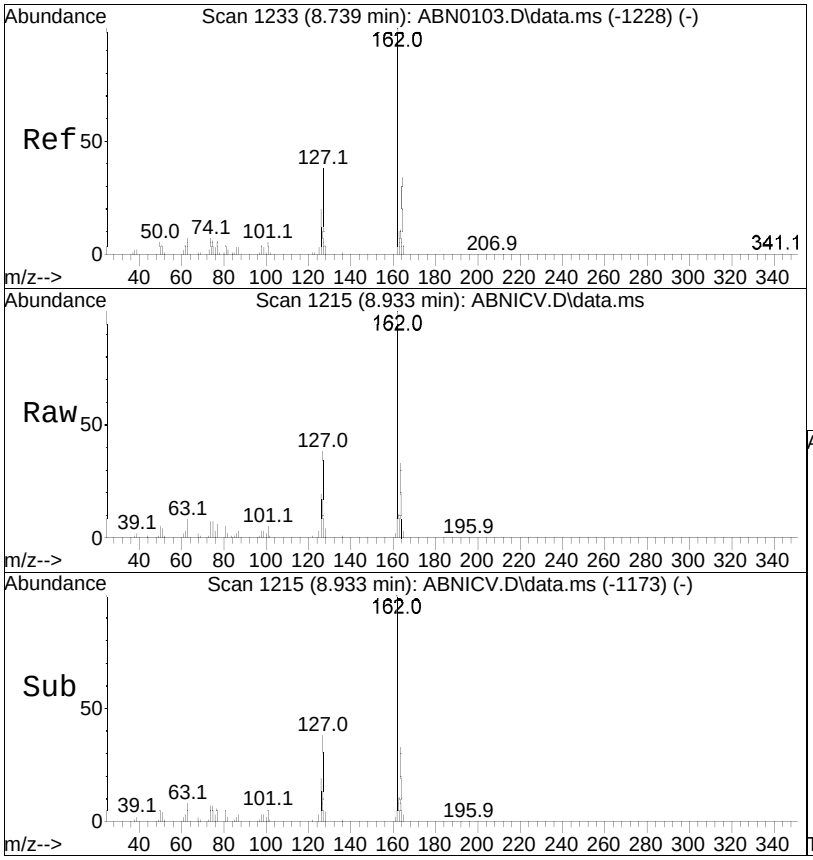


#44
2,4,5-Trichlorophenol
Concen: 5.02 ug/ml
RT: 8.780 min Scan# 1189
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:196 Resp: 49849

Ion	Ratio	Lower	Upper
196	100		
200	30.2	25.4	38.0
198	90.2	78.0	117.0

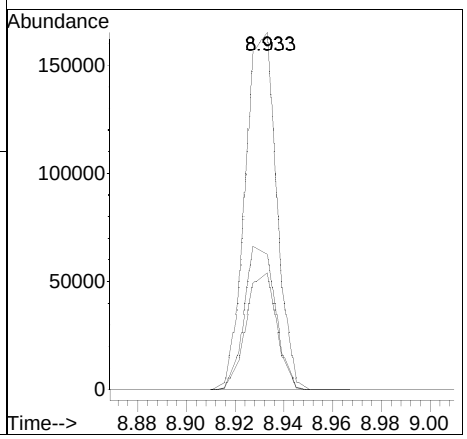


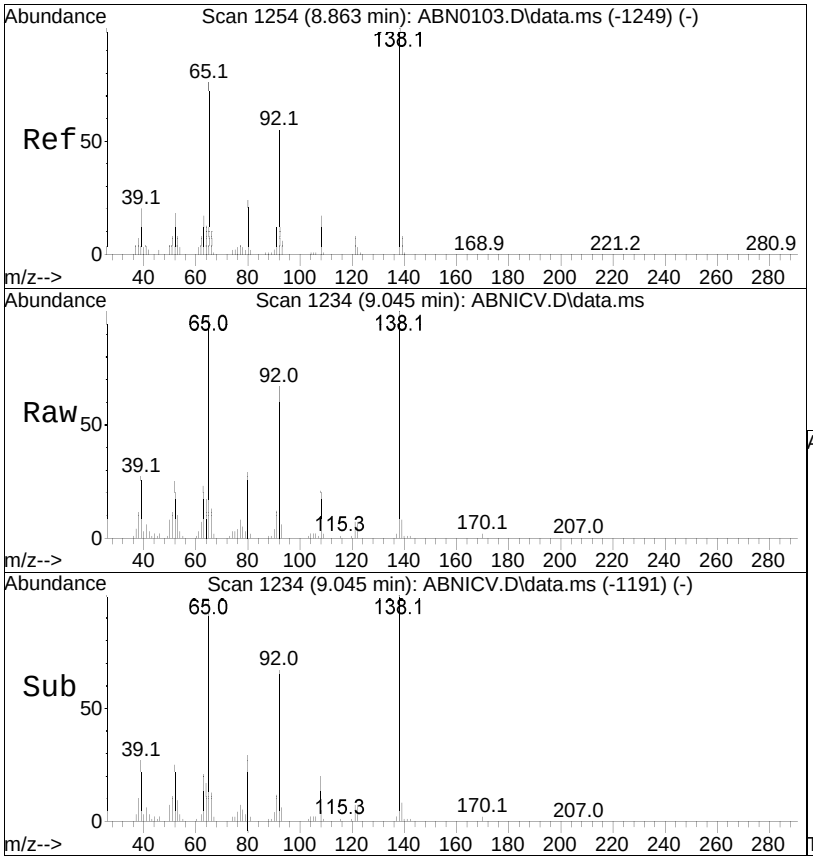


#46
2-Chloronaphthalene
Concen: 4.97 ug/ml
RT: 8.933 min Scan# 1215
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:162 Resp: 147157

Ion	Ratio	Lower	Upper
162	100		
127	39.9	32.2	48.4
164	32.2	25.7	38.5

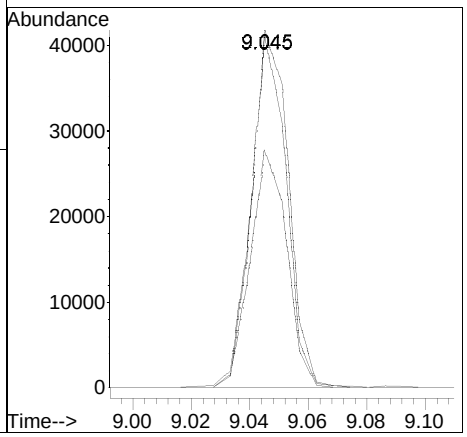


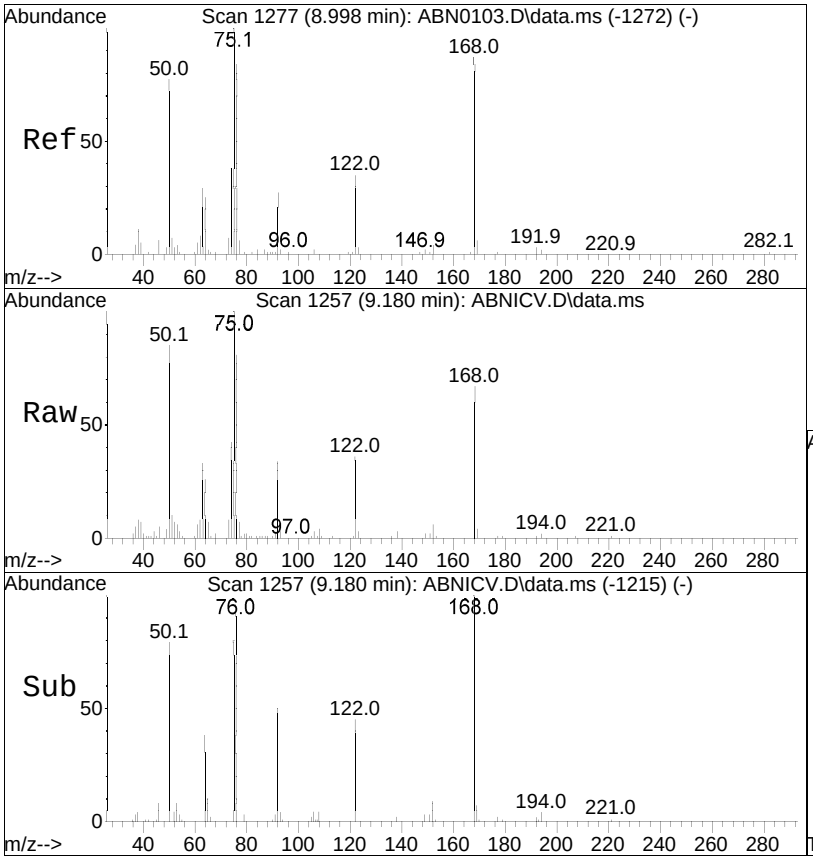


#47
2-Nitroaniline
Concen: 4.45 ug/ml
RT: 9.045 min Scan# 1234
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:138 Resp: 36042

Ion	Ratio	Lower	Upper
138	100		
92	66.3	53.5	80.3
65	94.5	86.3	129.5

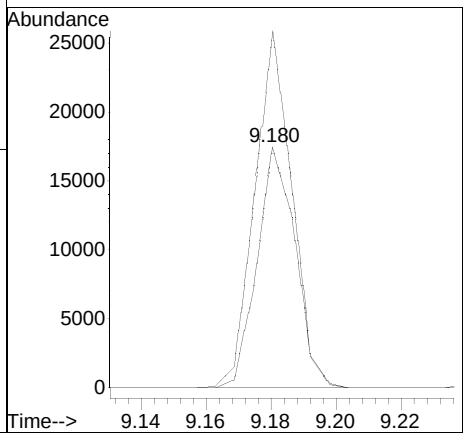


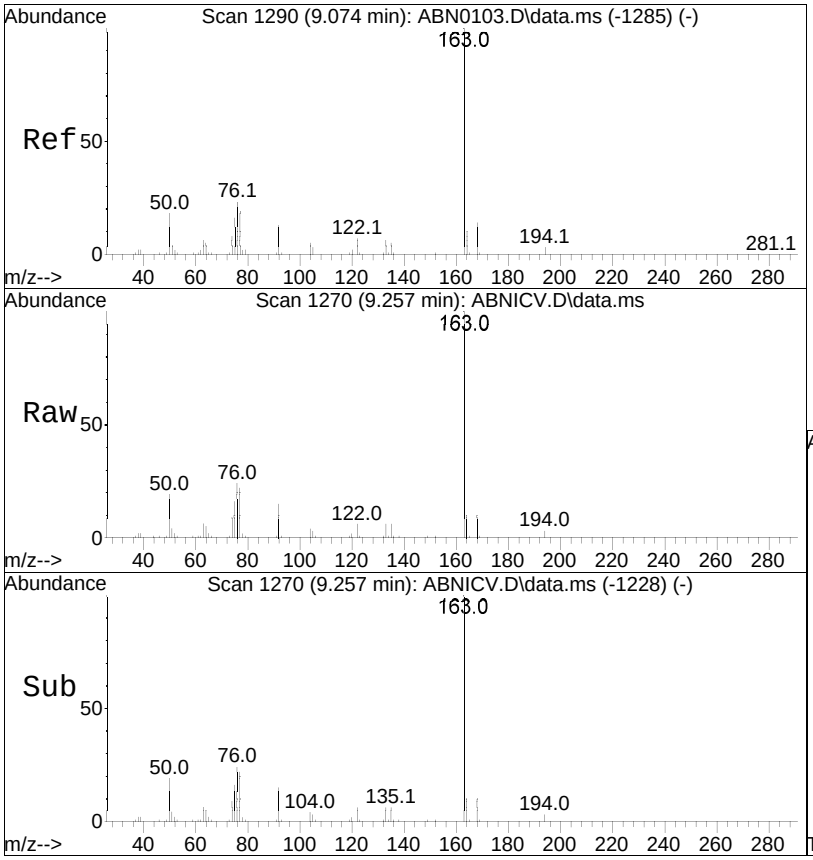


#48
1,4-Dinitrobenzene
Concen: 4.32 ug/ml
RT: 9.180 min Scan# 1257
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:168 Resp: 14246

Ion	Ratio	Lower	Upper
168	100		
75	143.2	121.8	182.8

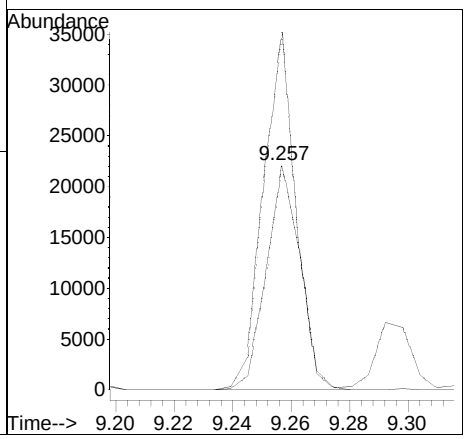


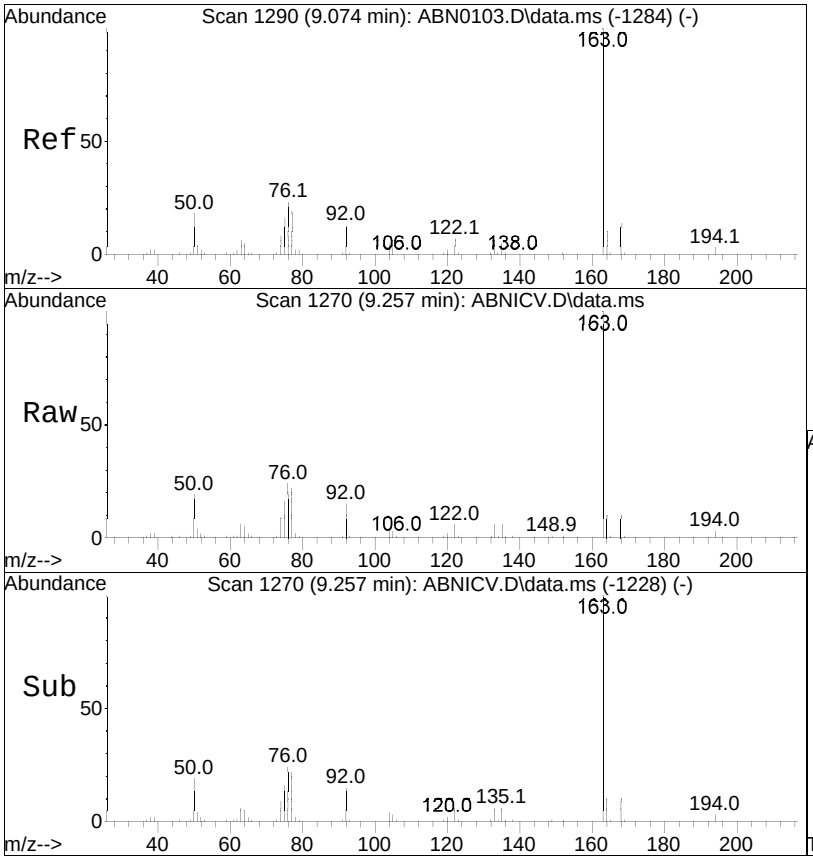


#49
1,3-Dinitrobenzene
Concen: 4.54 ug/ml
RT: 9.257 min Scan# 1270
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:168 Resp: 17604

Ion	Ratio	Lower	Upper
168	100		
75	151.2	22.7	34.1#

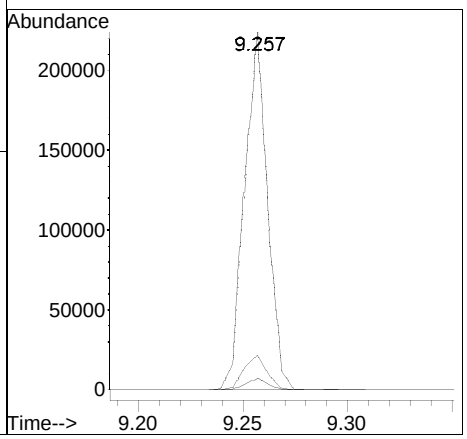


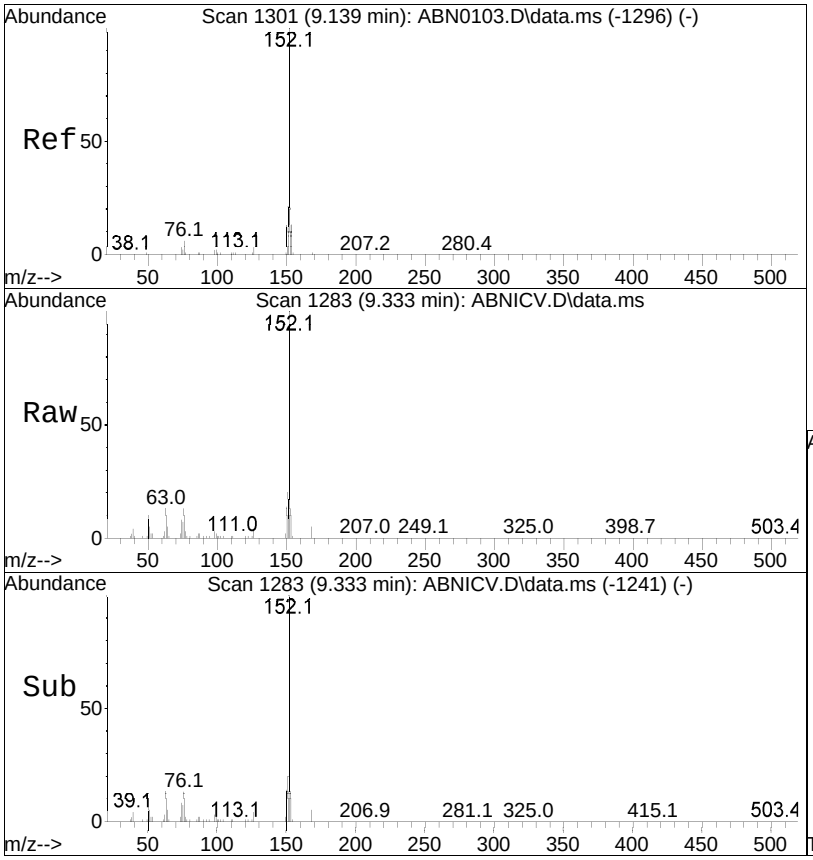


#50
Dimethyl phthalate
Concen: 4.85 ug/ml
RT: 9.257 min Scan# 1270
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:163 Resp: 169013

Ion	Ratio	Lower	Upper
163	100		
194	3.2	3.5	5.3#
164	9.9	7.9	11.9

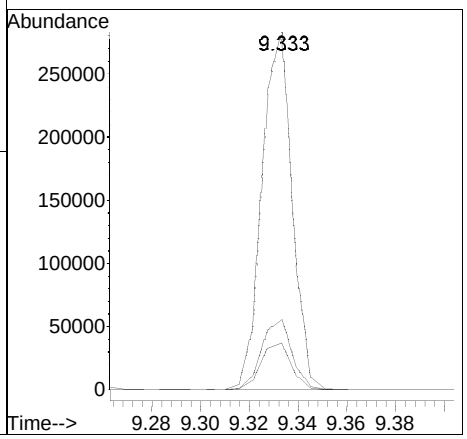


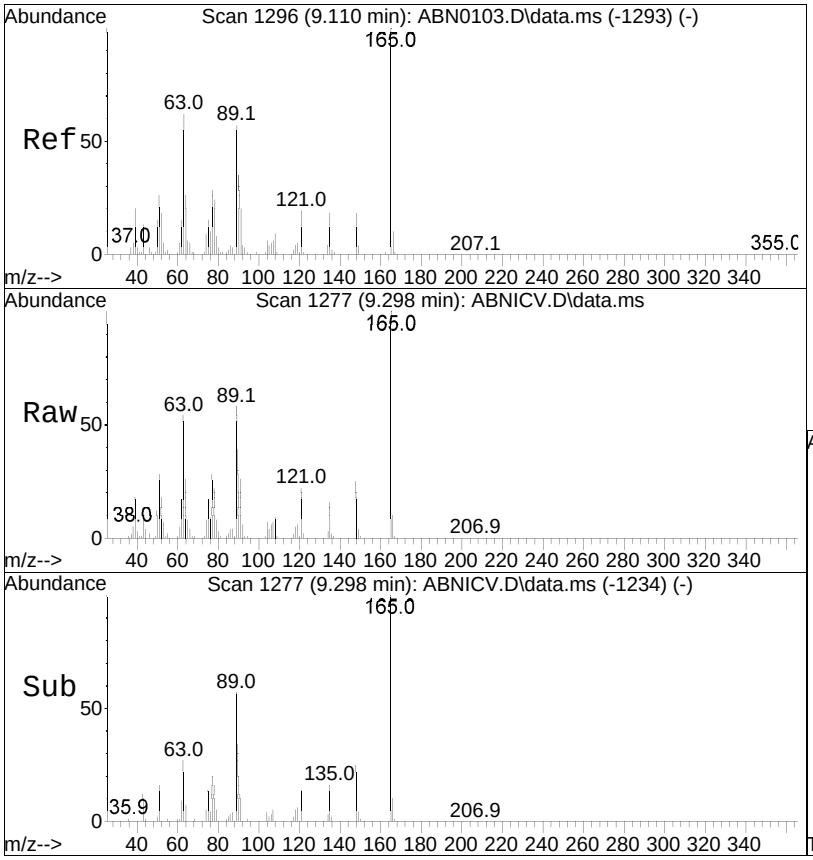


#51
Acenaphthylene
Concen: 5.03 ug/ml
RT: 9.333 min Scan# 1283
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:152 Resp: 240120

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.3	10.5	15.7

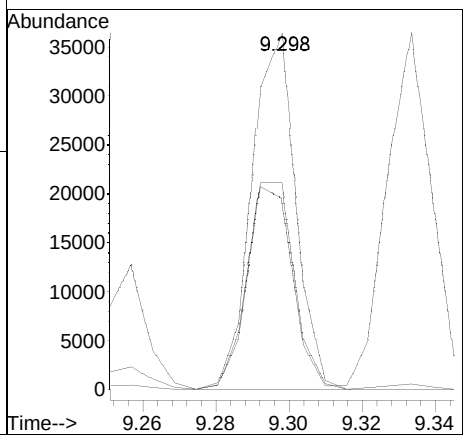


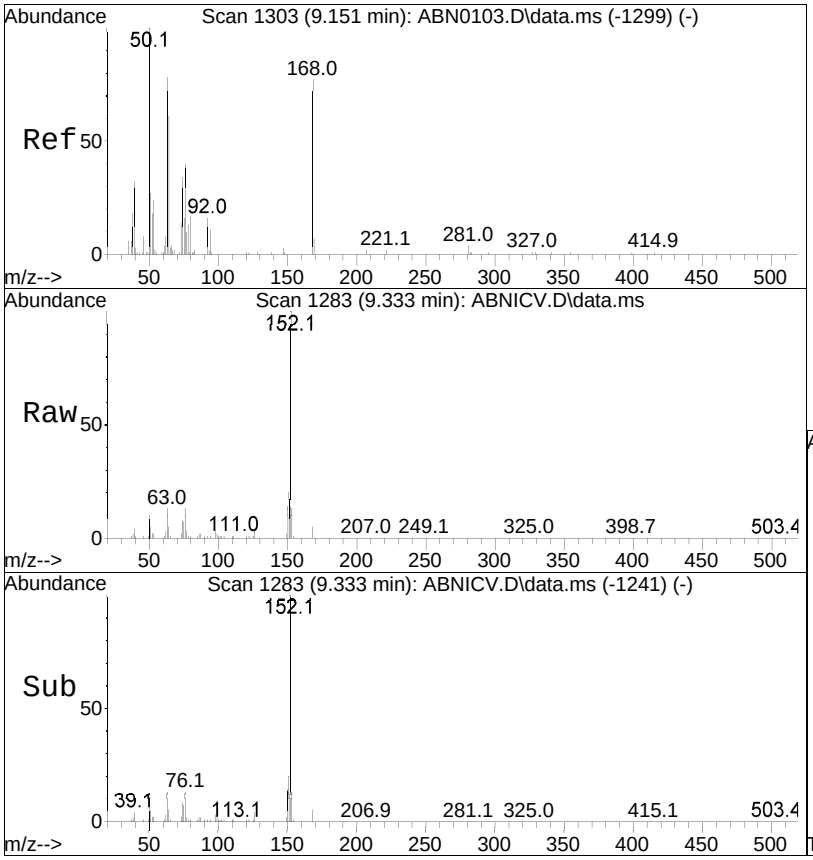


#52
2,6-Dinitrotoluene
Concen: 4.58 ug/ml
RT: 9.298 min Scan# 1277
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:165 Resp: 30463

Ion	Ratio	Lower	Upper
165	100		
89	62.8	54.2	81.2
63	59.0	64.2	96.2#

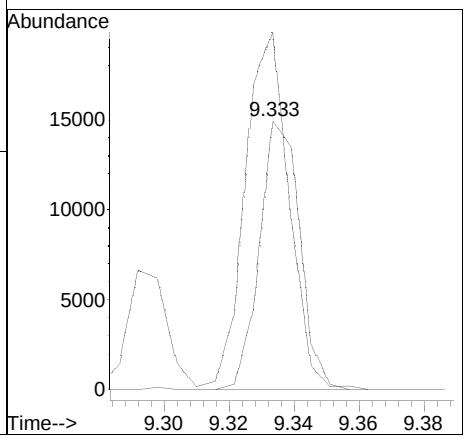


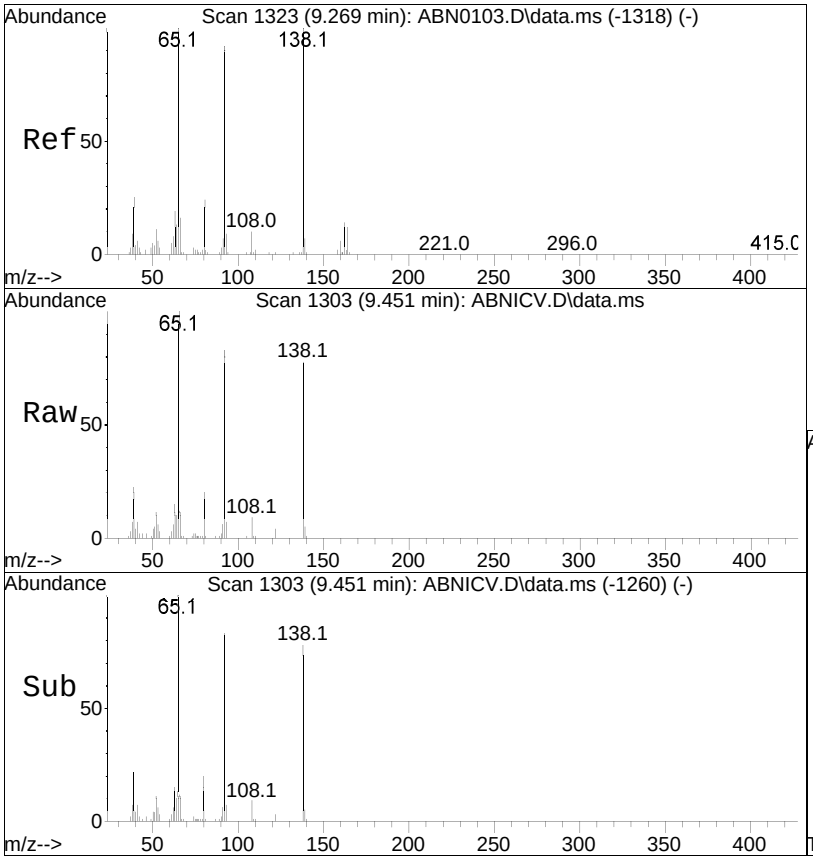


#53
1,2-Dinitrobenzene
Concen: 4.52 ug/ml
RT: 9.333 min Scan# 1283
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:168 Resp: 12690

Ion	Ratio	Lower	Upper
168	100		
75	145.5	30.9	46.3#

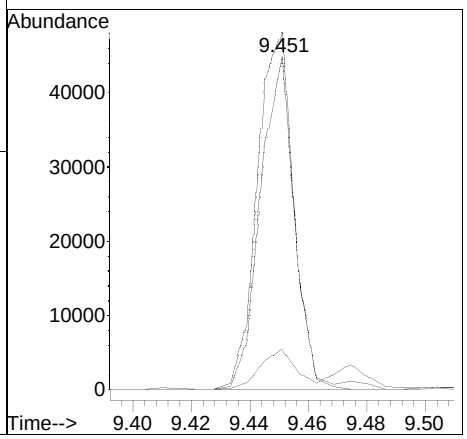


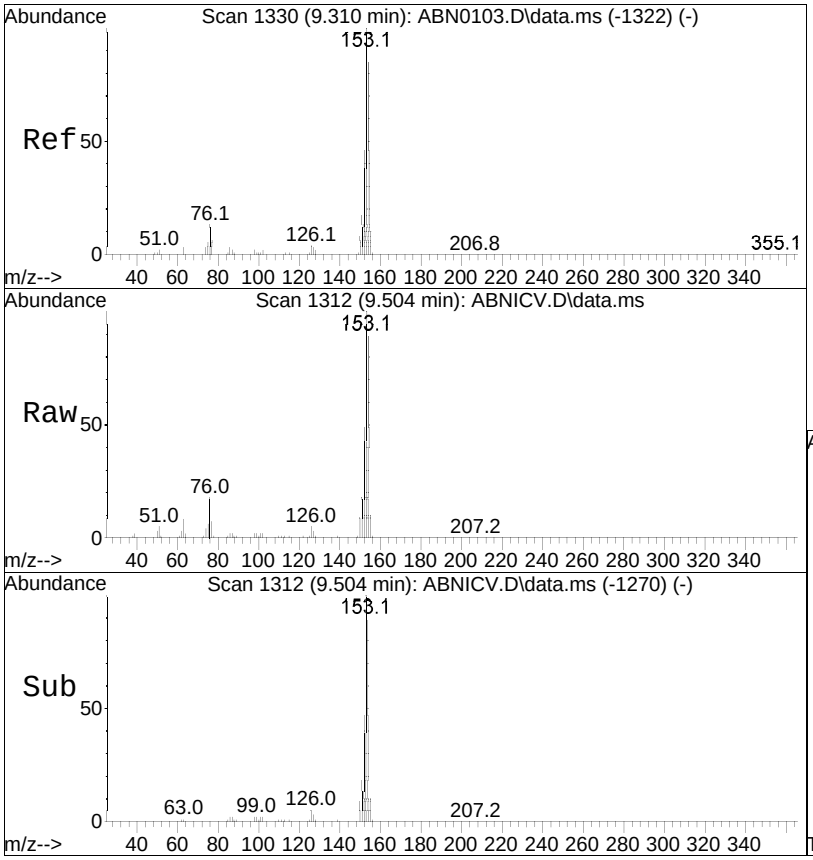


#63
3-Nitroaniline
Concen: 4.98 ug/ml
RT: 9.451 min Scan# 1303
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:138 Resp: 35610

Ion	Ratio	Lower	Upper
138	100		
92	116.8	93.4	140.2
108	13.3	9.5	14.3

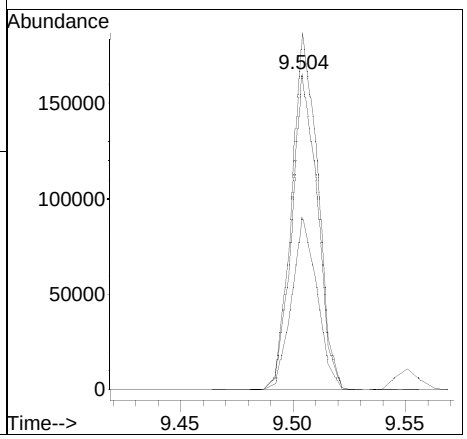


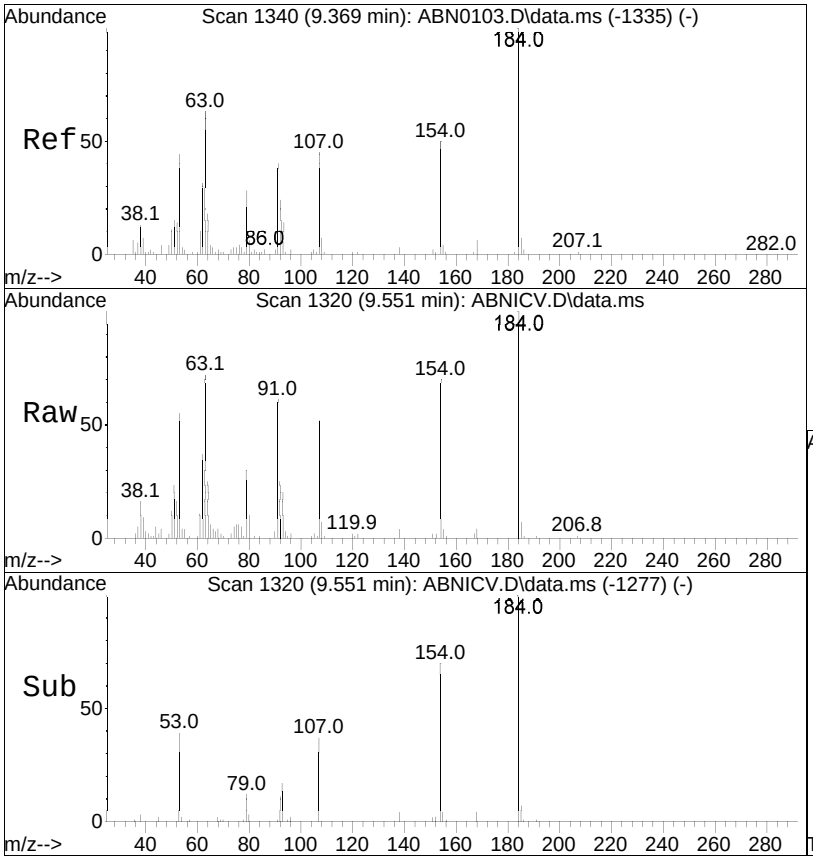


#64
Acenaphthene
Concen: 4.66 ug/ml
RT: 9.504 min Scan# 1312
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:154 Resp: 131783

Ion	Ratio	Lower	Upper
154	100		
153	114.8	85.3	127.9
152	54.3	41.4	62.0

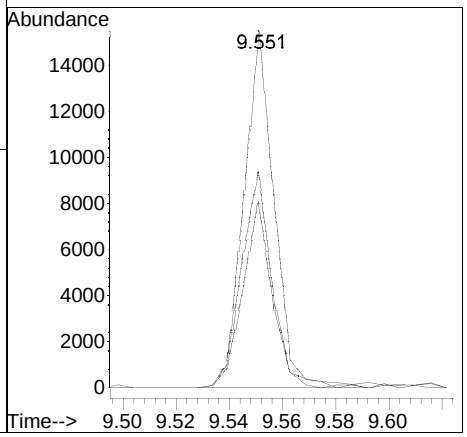


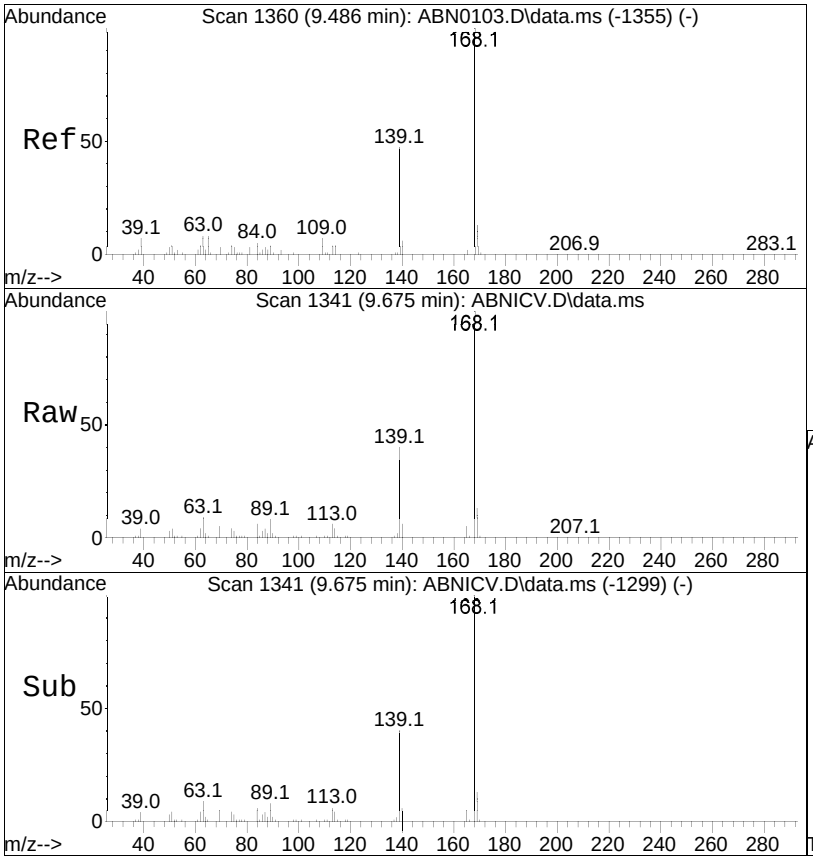


#65
2,4-Dinitrophenol
Concen: 4.12 ug/ml
RT: 9.551 min Scan# 1320
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:184 Resp: 12153

Ion	Ratio	Lower	Upper
184	100		
107	50.5	37.7	56.5
91	61.5	46.3	69.5

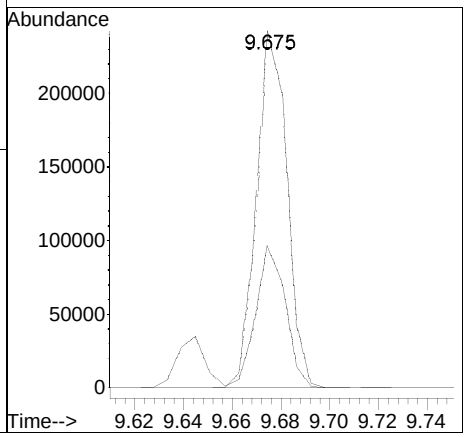


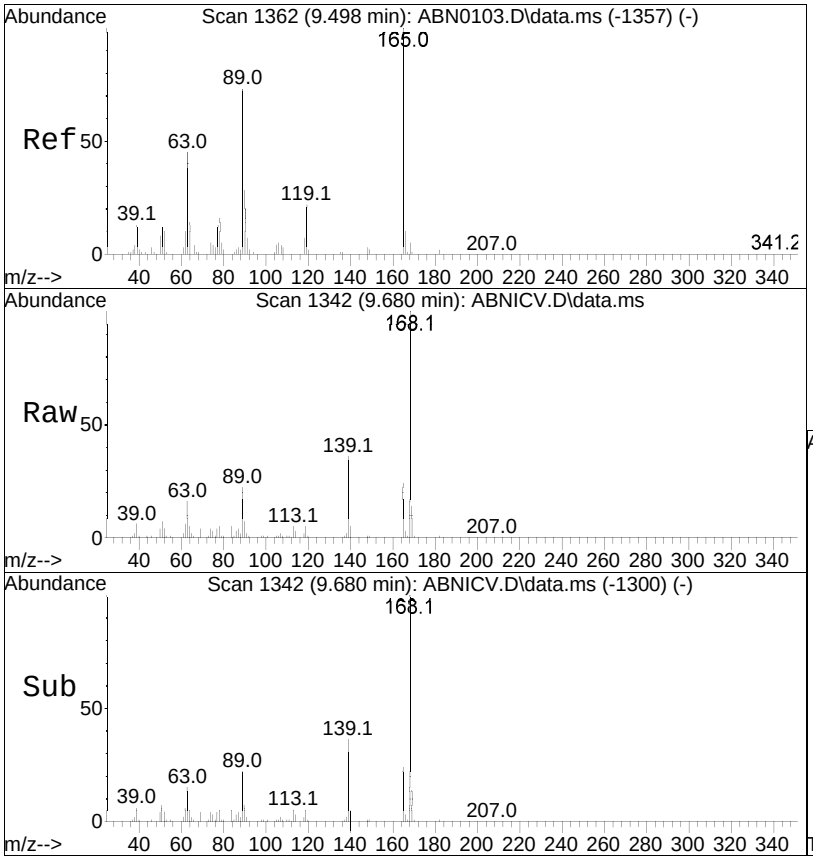


#66
Dibenzofuran
Concen: 4.91 ug/ml
RT: 9.675 min Scan# 1341
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:168 Resp: 207762

Ion	Ratio	Lower	Upper
168	100		
139	39.1	31.4	47.2

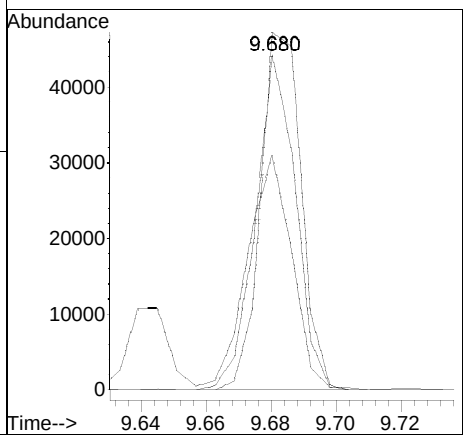


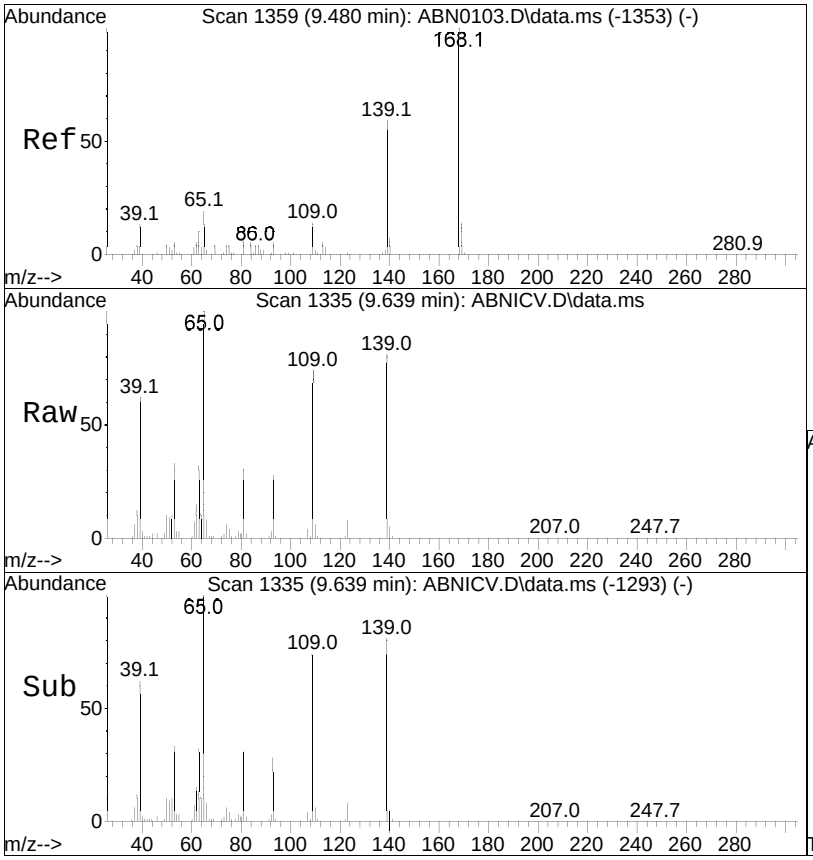


#67
2,4-Dinitrotoluene
Concen: 4.55 ug/ml
RT: 9.680 min Scan# 1342
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:165 Resp: 40776

Ion	Ratio	Lower	Upper
165	100		
89	92.1	72.0	108.0
63	71.9	52.7	79.1

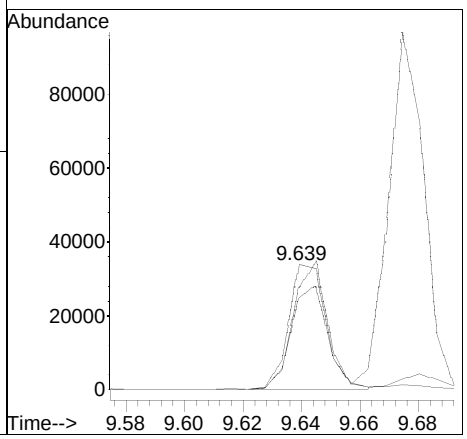


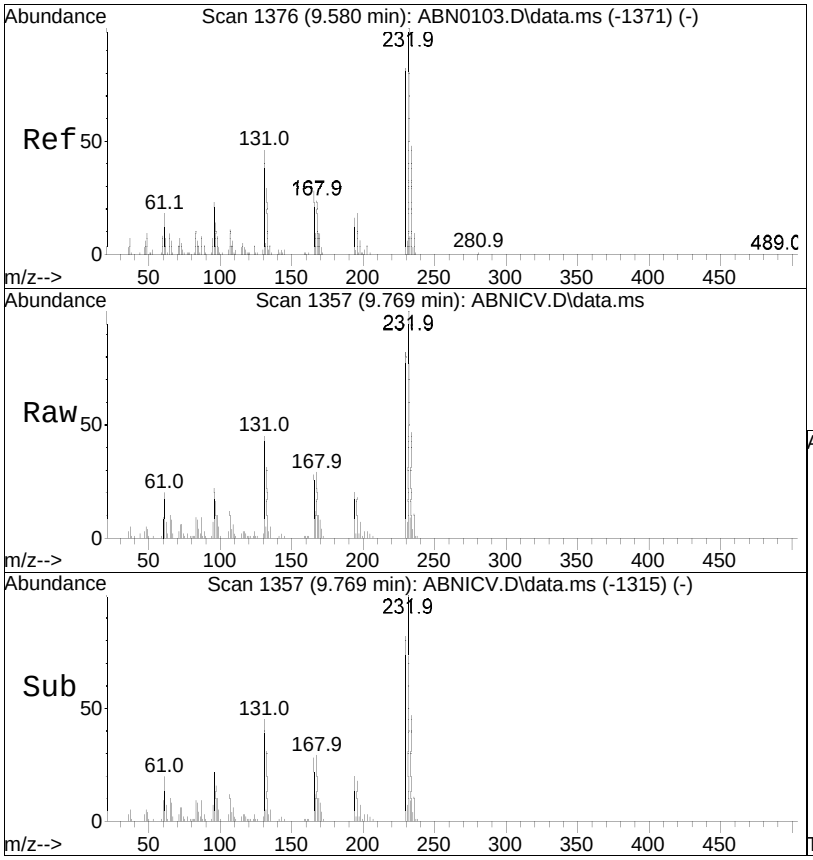


#68
4-Nitrophenol
Concen: 4.50 ug/ml
RT: 9.639 min Scan# 1335
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 65 Resp: 30240

Ion	Ratio	Lower	Upper
65	100		
109	82.3	47.4	71.2#
139	92.7	76.6	115.0

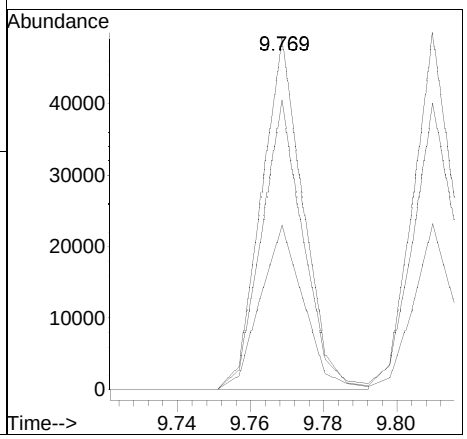


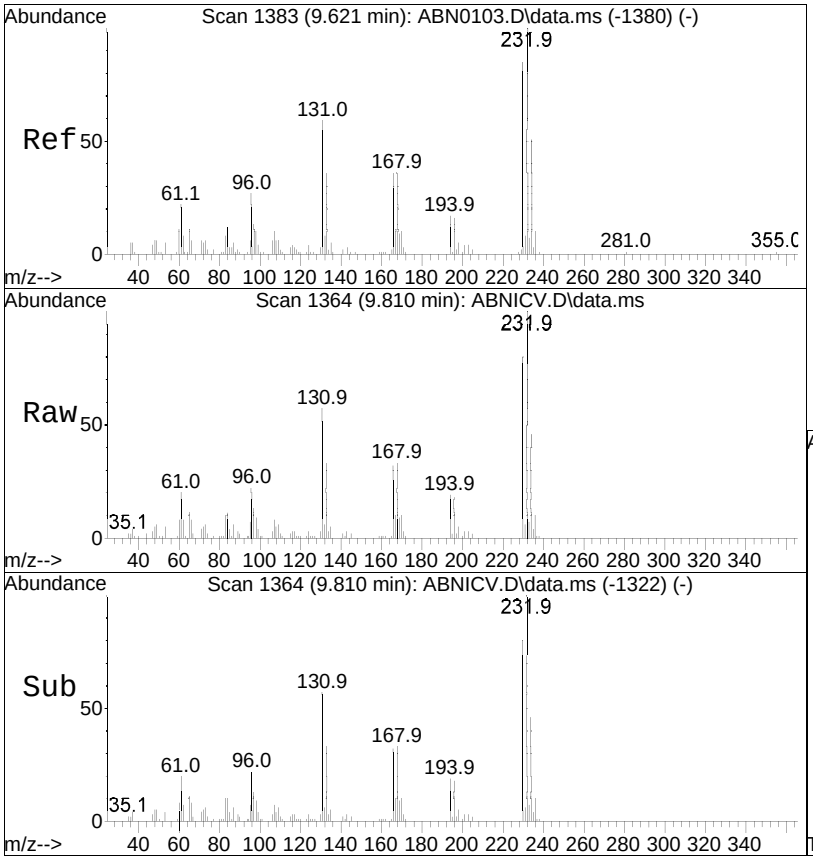


#69
2,3,5,6-Tetrachlorophenol
Concen: 4.80 ug/ml
RT: 9.769 min Scan# 1357
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:232 Resp: 39034

Ion	Ratio	Lower	Upper
232	100		
230	82.4	64.2	96.4
234	48.5	38.1	57.1

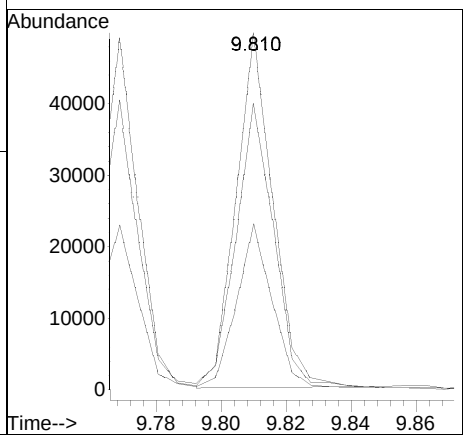


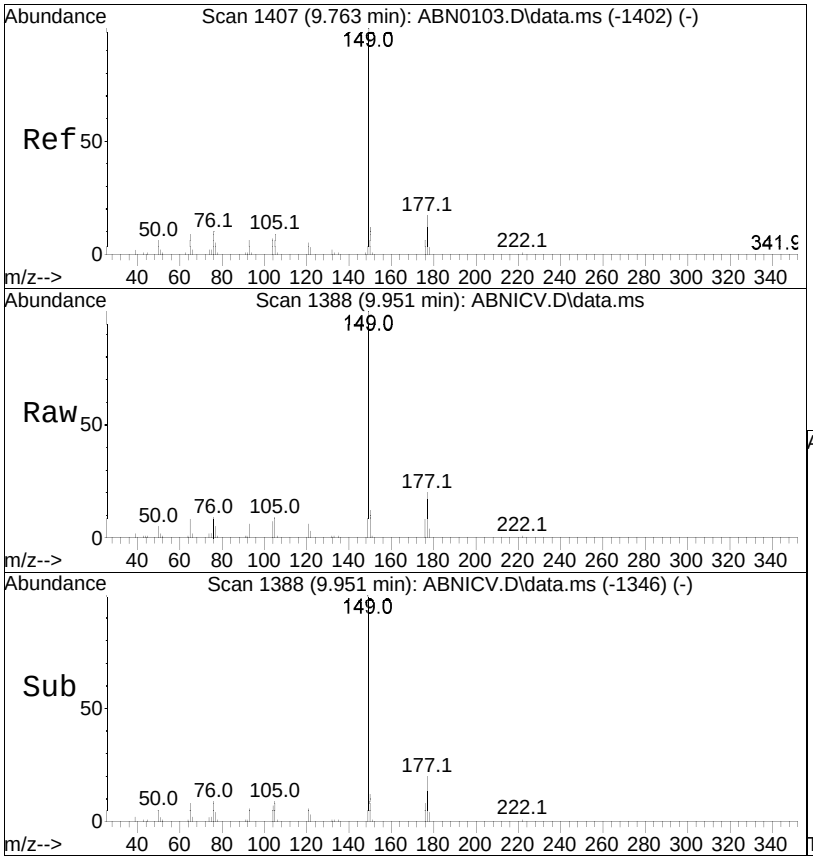


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.67 ug/ml
RT: 9.810 min Scan# 1364
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:232 Resp: 39370

Ion	Ratio	Lower	Upper
232	100		
230	84.6	61.8	92.8
234	46.7	36.2	54.2

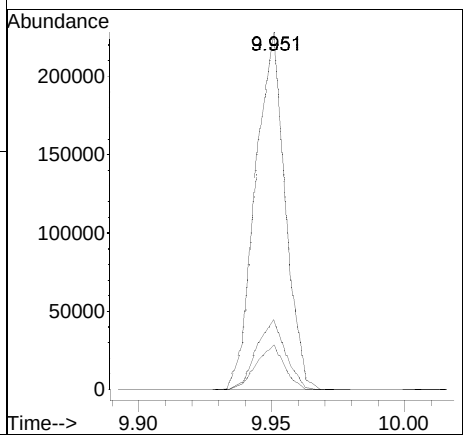


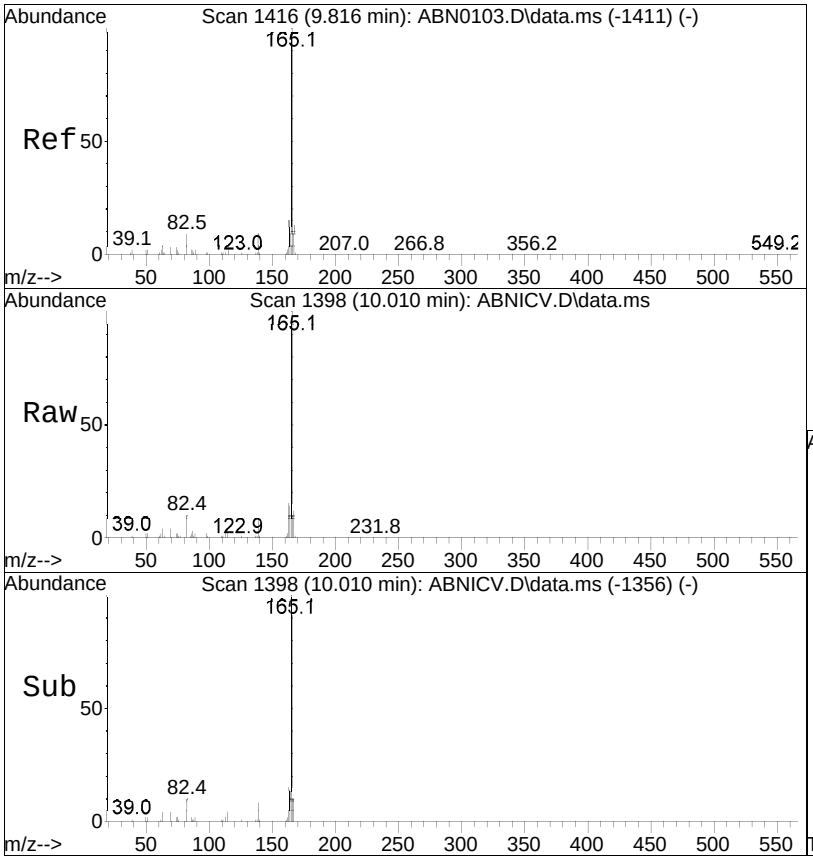


#71
Diethyl phthalate
Concen: 4.96 ug/ml
RT: 9.951 min Scan# 1388
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:149 Resp: 175591

Ion	Ratio	Lower	Upper
149	100		
177	19.6	16.1	24.1
150	12.2	9.4	14.2

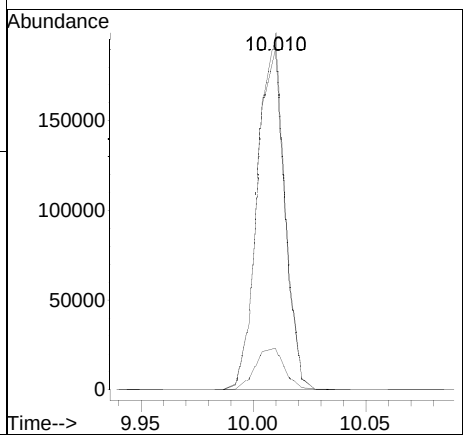


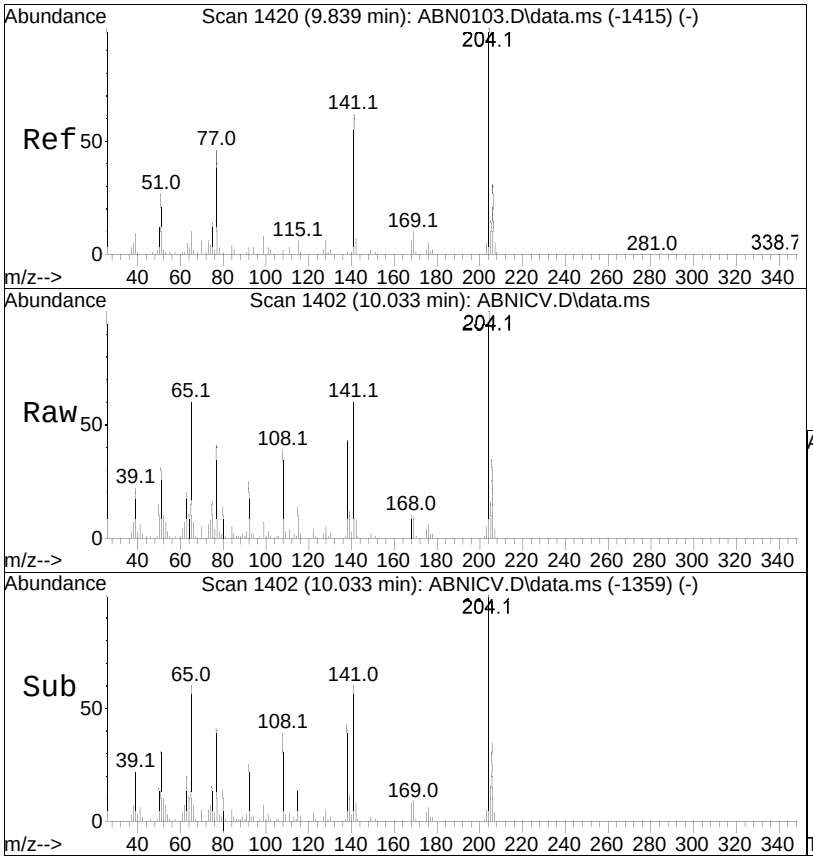


#72
Fluorene
Concen: 4.83 ug/ml
RT: 10.010 min Scan# 1398
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:166 Resp: 161349

Ion	Ratio	Lower	Upper
166	100		
165	103.1	76.2	114.2
167	13.2	10.6	15.8

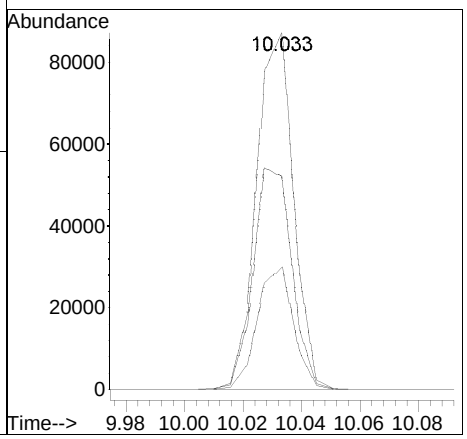


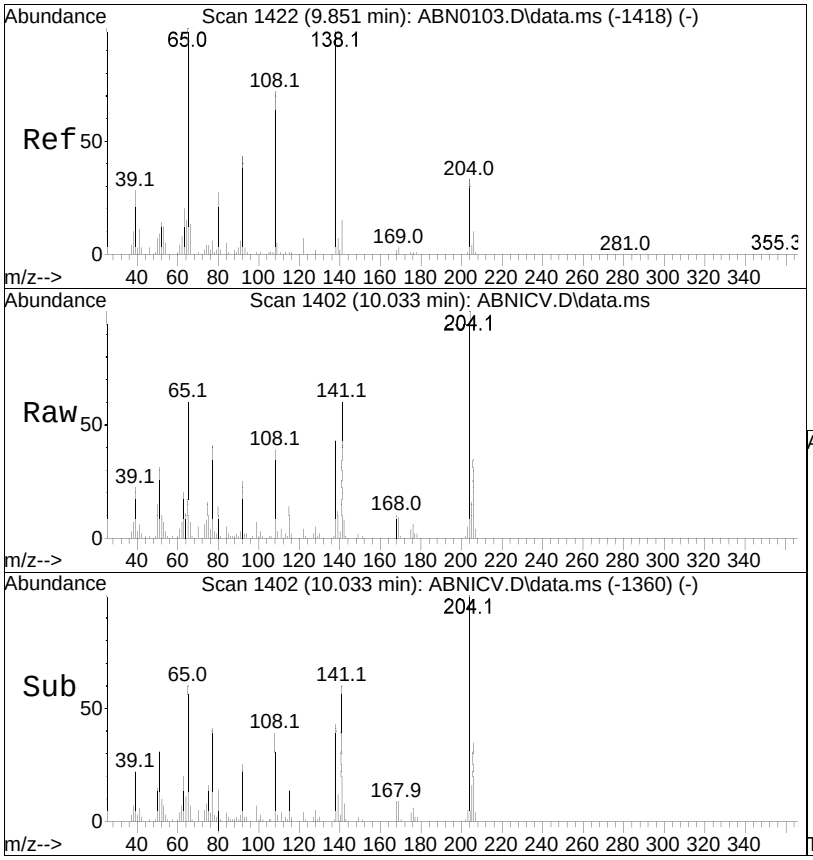


#73
4-Chlorophenyl phenyl ether
Concen: 4.79 ug/ml
RT: 10.033 min Scan# 1402
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:204 Resp: 76376

Ion	Ratio	Lower	Upper
204	100		
206	33.8	25.8	38.6
141	64.7	53.6	80.4

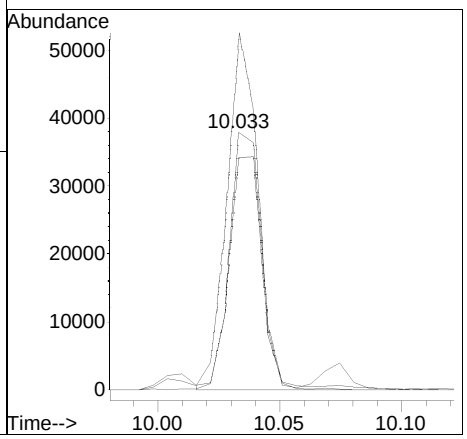


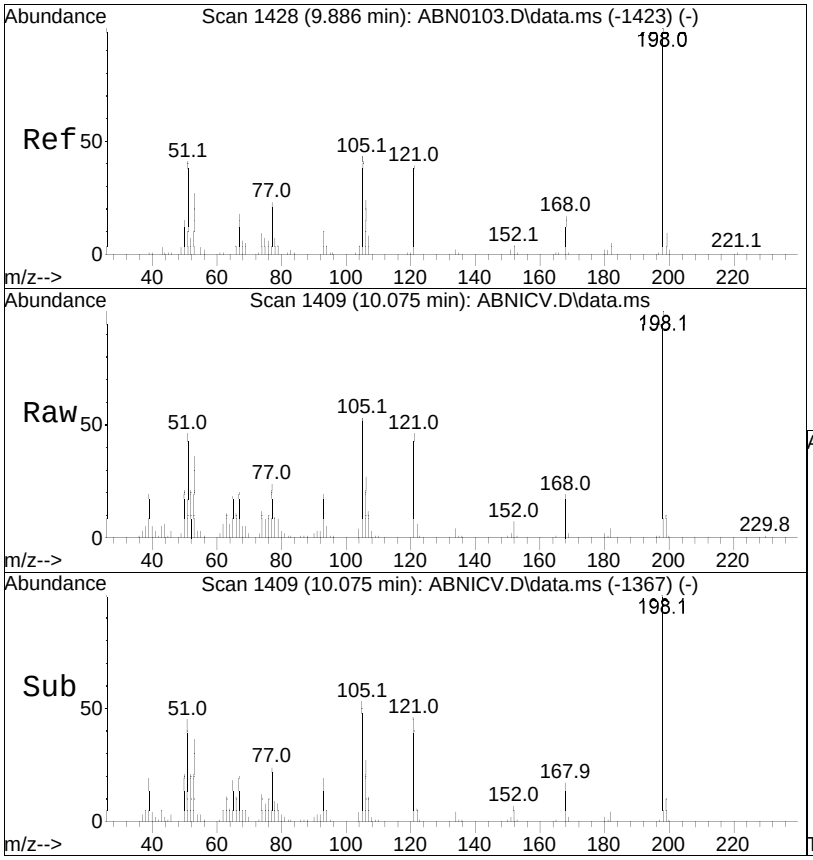


#74
4-Nitroaniline
Concen: 4.77 ug/ml
RT: 10.033 min Scan# 1402
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:138 Resp: 34455

Ion	Ratio	Lower	Upper
138	100		
108	93.1	52.1	78.1#
65	137.0	115.0	172.6

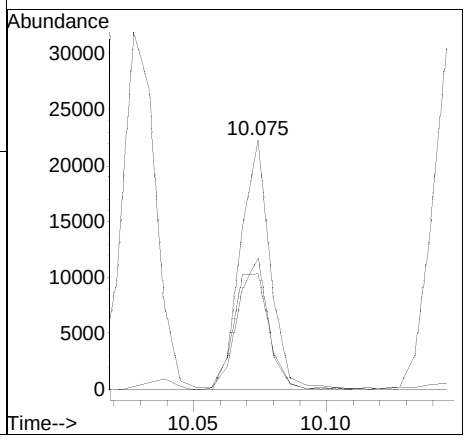


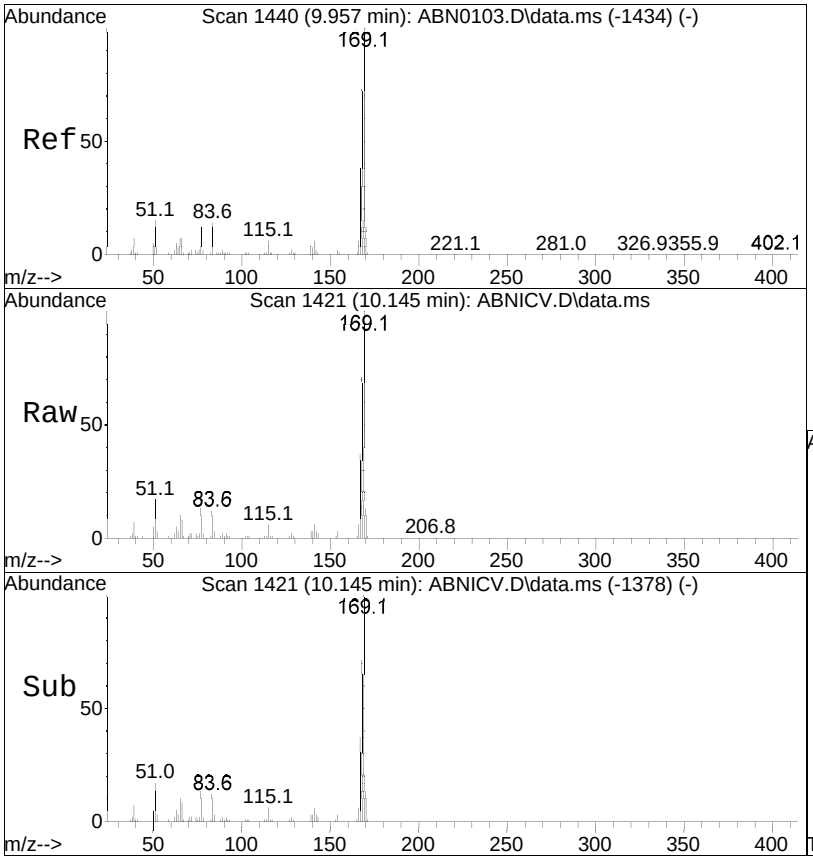


#75
4,6-Dinitro-o-cresol
Concen: 4.44 ug/ml
RT: 10.075 min Scan# 1409
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:198 Resp: 17576

Ion	Ratio	Lower	Upper
198	100		
51	57.2	76.0	114.0#
105	54.0	45.6	68.4

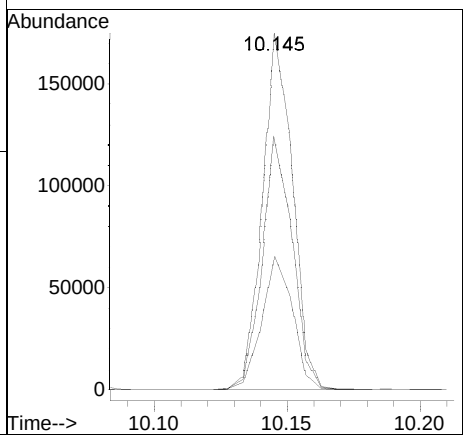


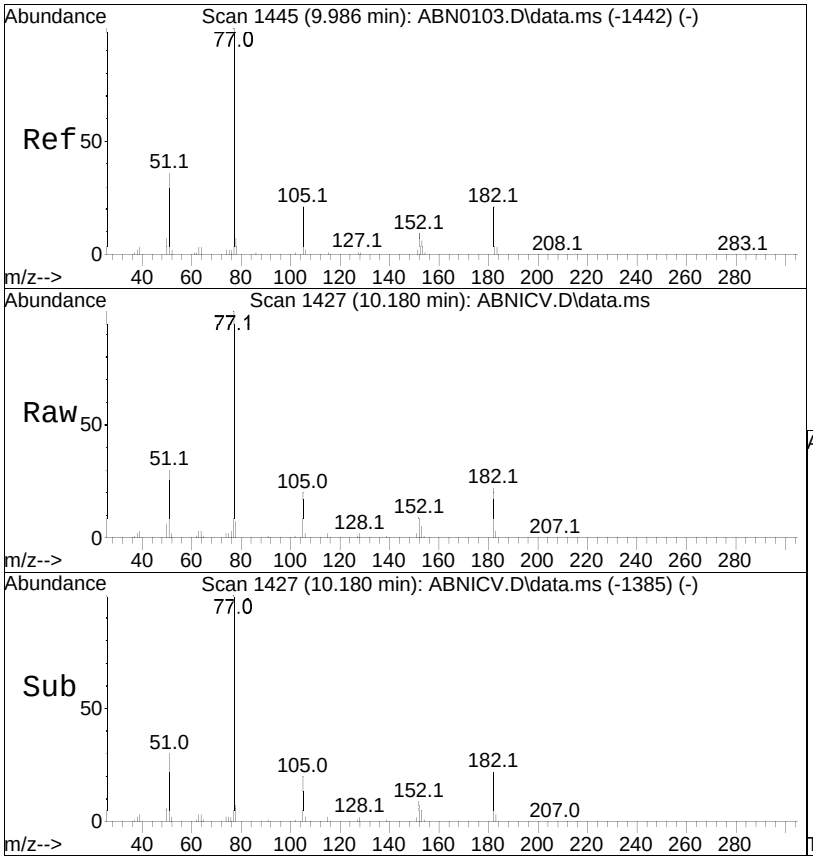


#76
NDPA/DPA
Concen: 4.88 ug/ml
RT: 10.145 min Scan# 1421
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:169 Resp: 137047

Ion	Ratio	Lower	Upper
169	100		
168	71.0	54.0	81.0
167	38.6	28.6	42.8

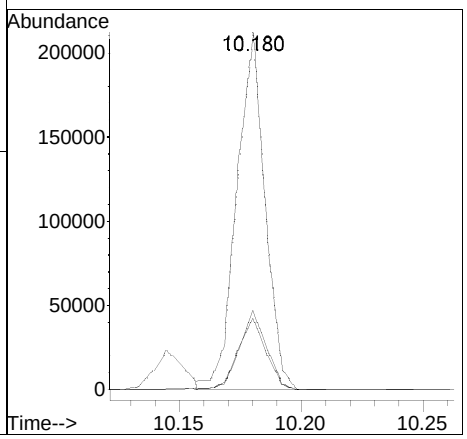


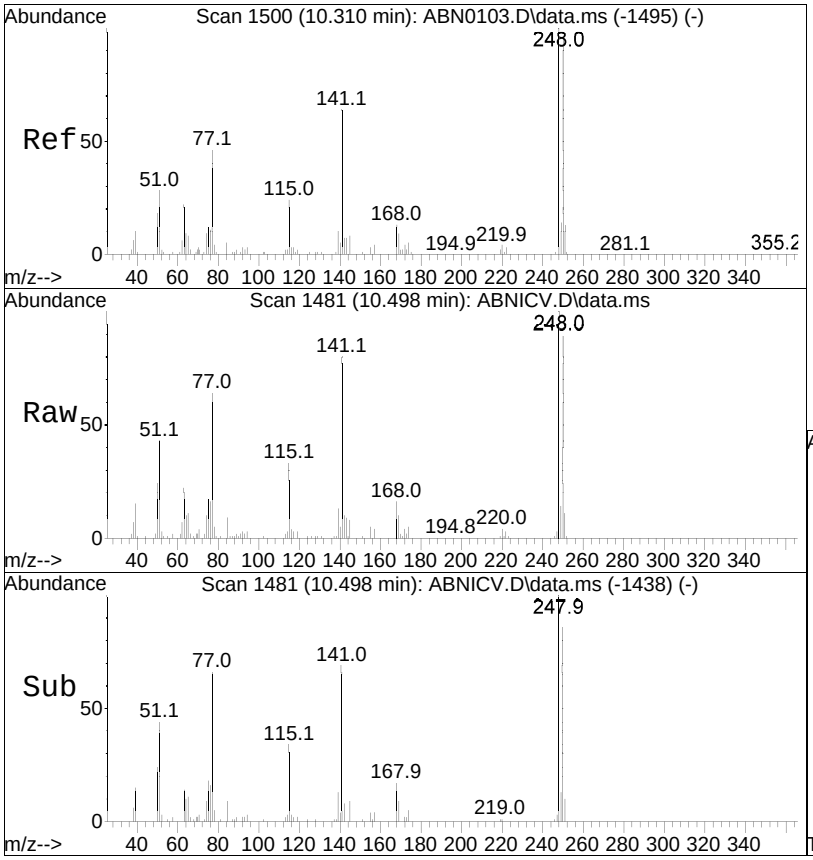


#77
Azobenzene
Concen: 5.10 ug/ml
RT: 10.180 min Scan# 1427
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion: 77 Resp: 168401

Ion	Ratio	Lower	Upper
77	100		
182	22.0	17.4	26.2
105	20.9	15.4	23.2

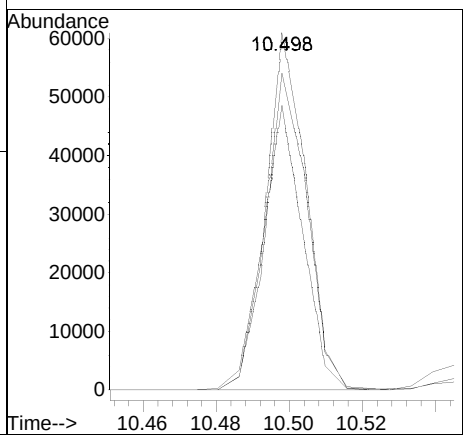


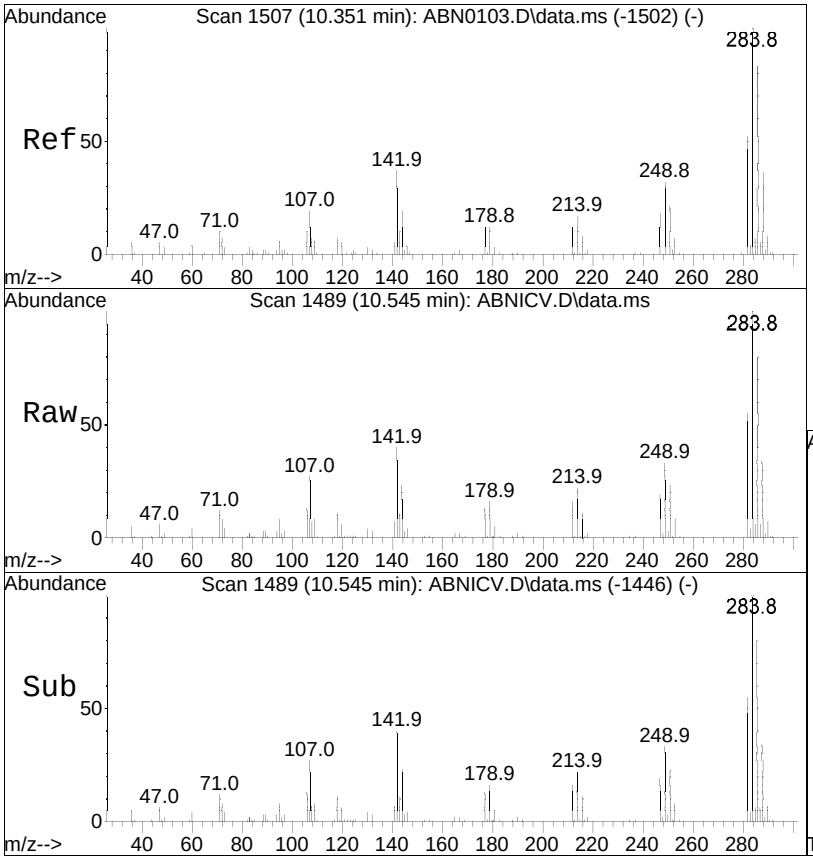


#79
4-Bromophenyl phenyl ether
Concen: 5.02 ug/ml
RT: 10.498 min Scan# 1481
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:248 Resp: 46603

Ion	Ratio	Lower	Upper
248	100		
141	79.7	76.6	114.8
250	91.2	77.3	115.9

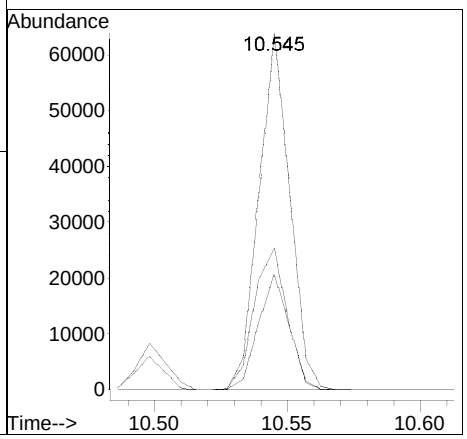


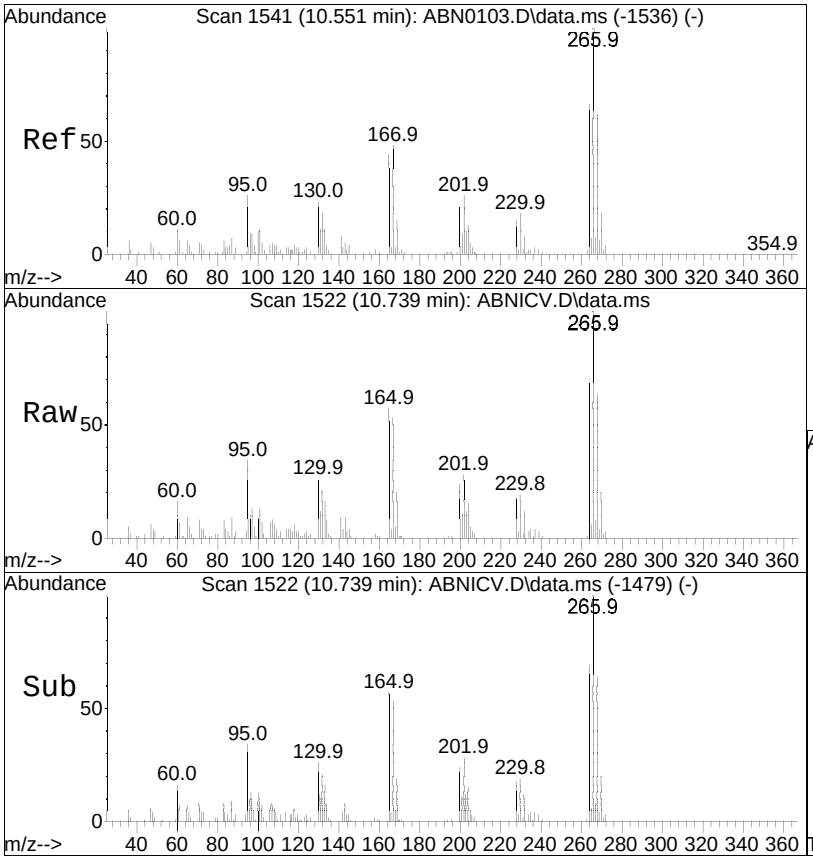


#80
Hexachlorobenzene
Concen: 4.74 ug/ml
RT: 10.545 min Scan# 1489
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:284 Resp: 51213

Ion	Ratio	Lower	Upper
284	100		
142	42.9	41.9	62.9
249	32.7	24.1	36.1

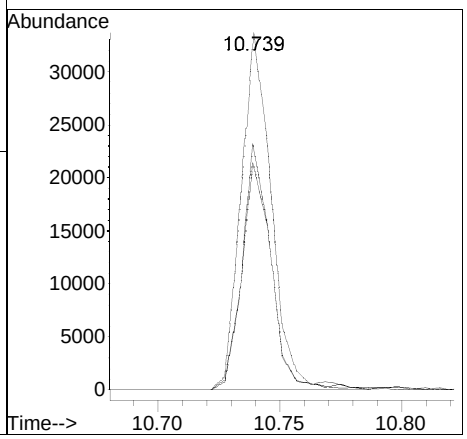


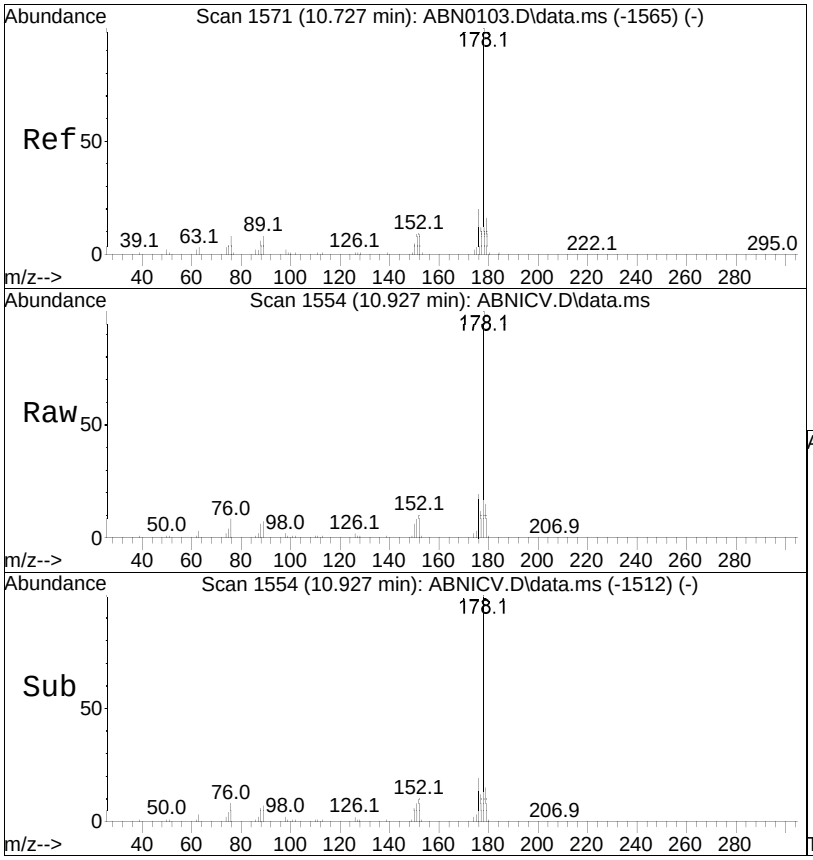


#81
Pentachlorophenol
Concen: 4.62 ug/ml
RT: 10.739 min Scan# 1522
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:266 Resp: 29323

Ion	Ratio	Lower	Upper
266	100		
264	64.6	49.7	74.5
268	62.9	50.5	75.7

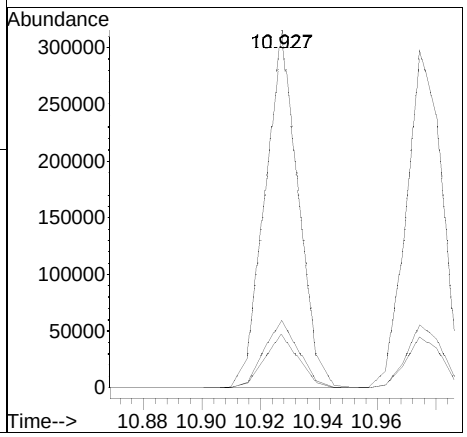


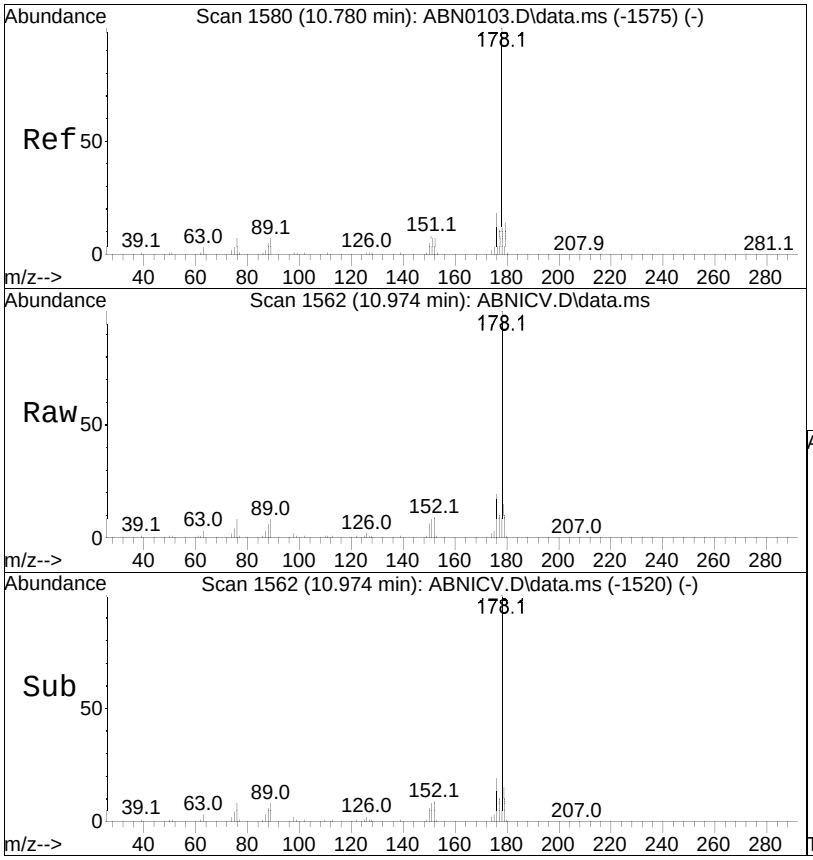


#88
Phenanthrene
Concen: 4.65 ug/ml
RT: 10.927 min Scan# 1554
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:178 Resp: 249661

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	19.5	15.4	23.2

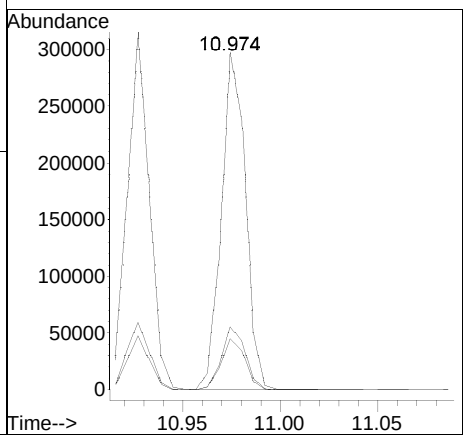


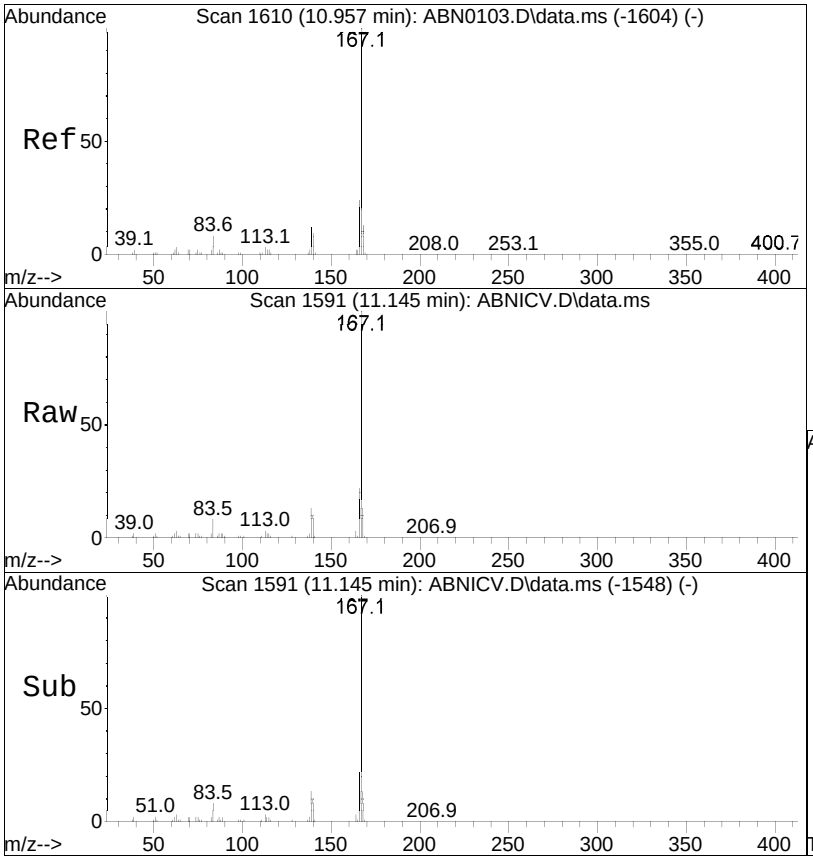


#89
Anthracene
Concen: 4.77 ug/ml
RT: 10.974 min Scan# 1562
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:178 Resp: 255236

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.0	18.0
176	18.6	14.6	22.0

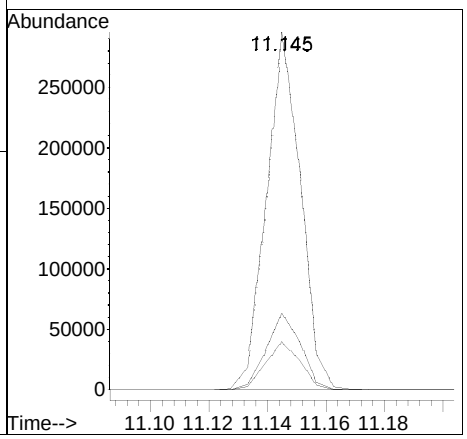


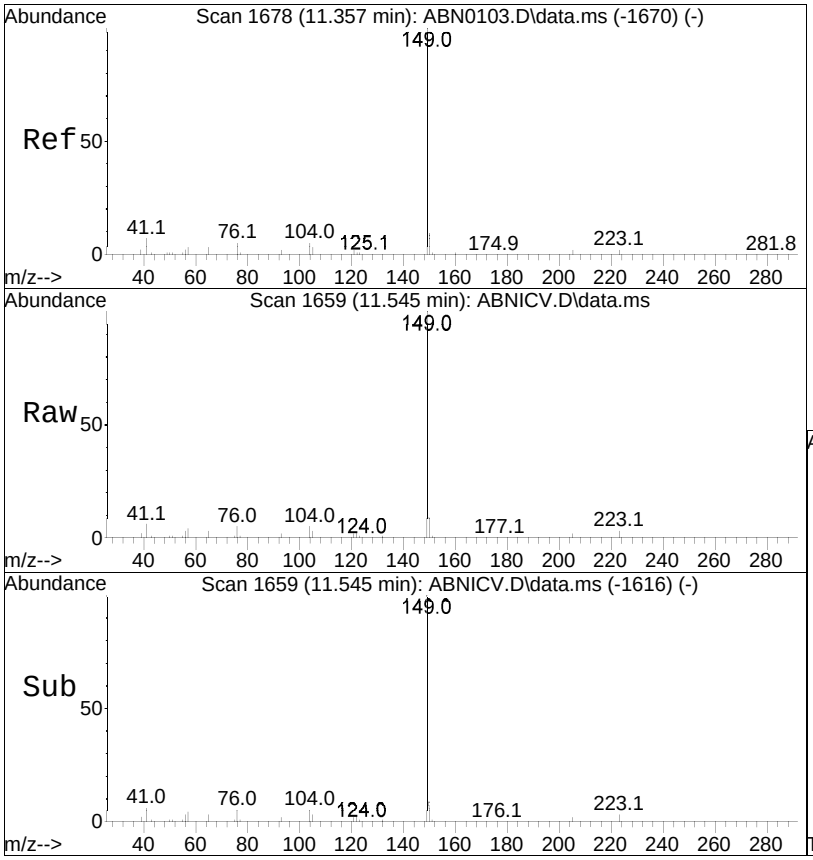


#90
Carbazole
Concen: 4.84 ug/ml
RT: 11.145 min Scan# 1591
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:167 Resp: 236335

Ion	Ratio	Lower	Upper
167	100		
168	13.8	10.6	15.8
166	21.8	17.4	26.0

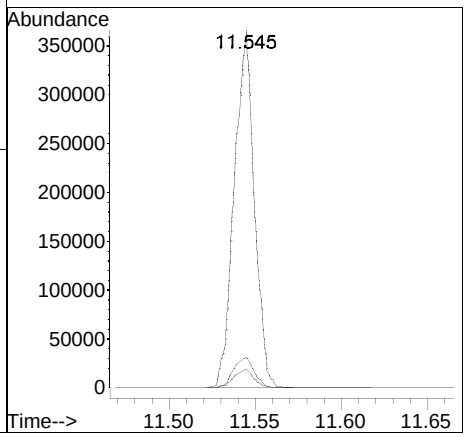


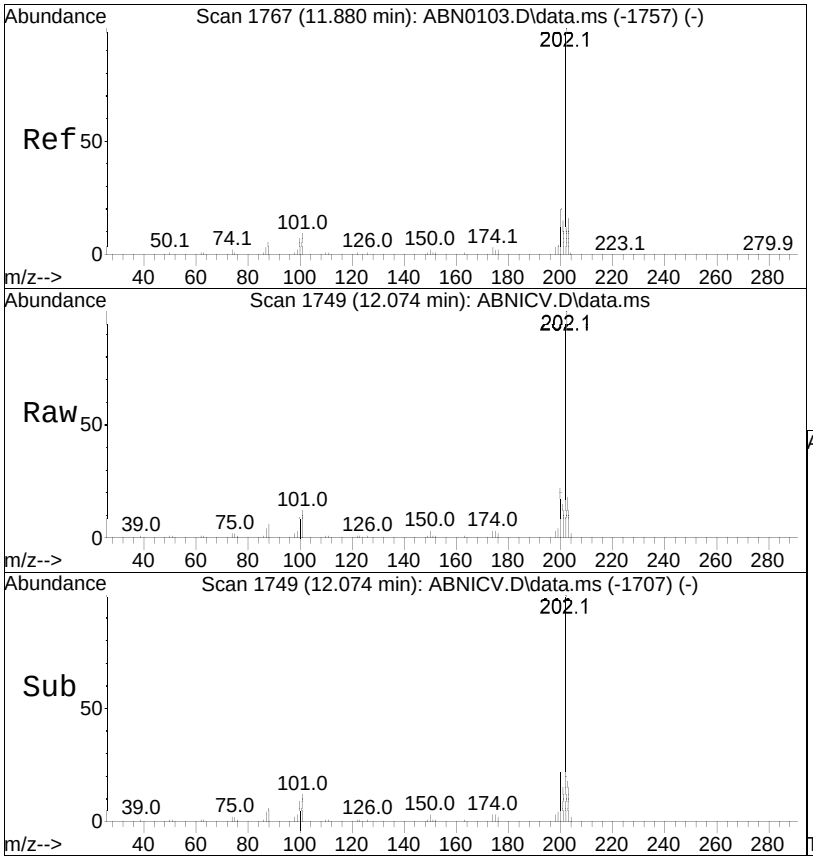


#91
Di-n-butylphthalate
Concen: 4.65 ug/ml
RT: 11.545 min Scan# 1659
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:149 Resp: 290986

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.0	10.6
104	5.4	4.5	6.7

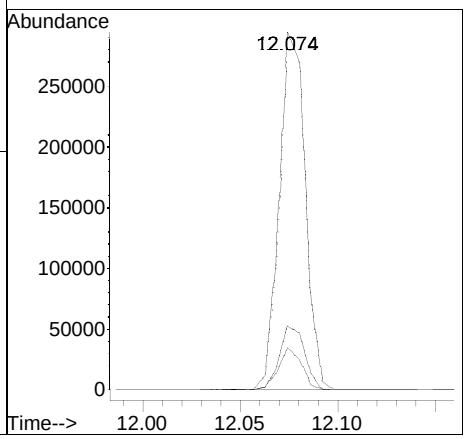


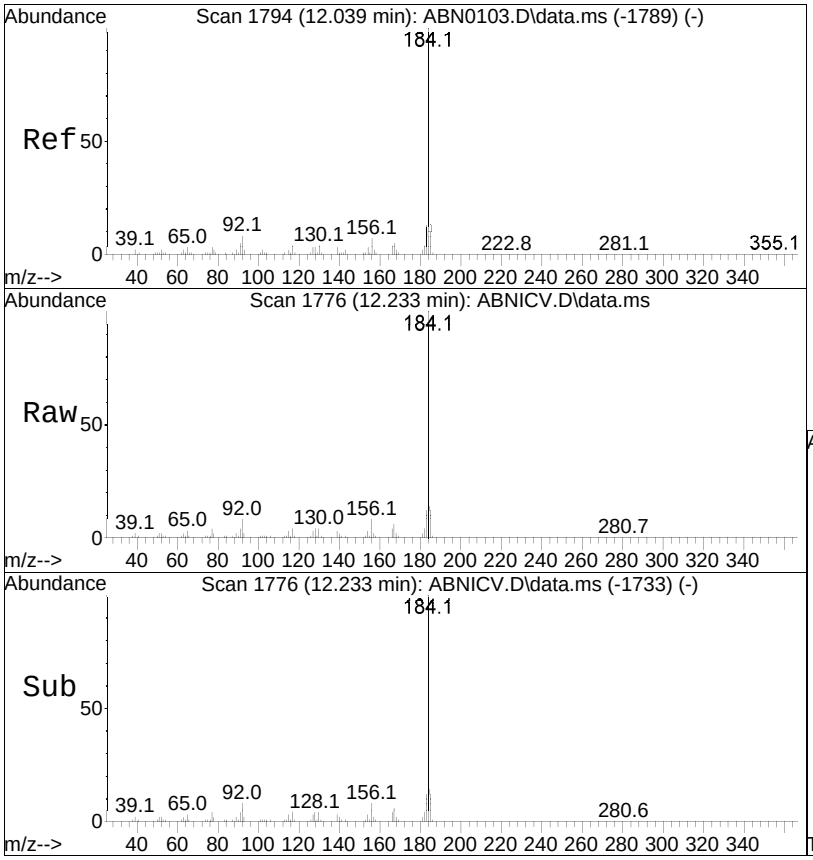


#92
Fluoranthene
Concen: 4.70 ug/ml
RT: 12.074 min Scan# 1749
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:202 Resp: 270091

Ion	Ratio	Lower	Upper
202	100		
101	10.8	13.5	20.3#
203	17.6	13.6	20.4

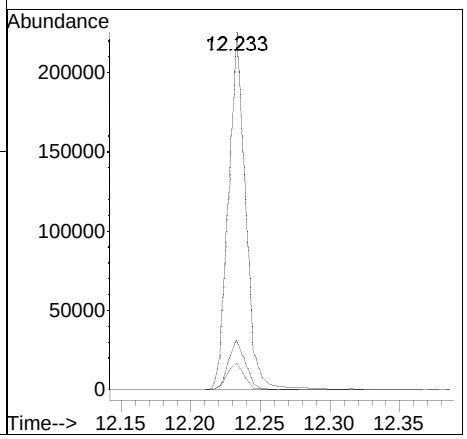


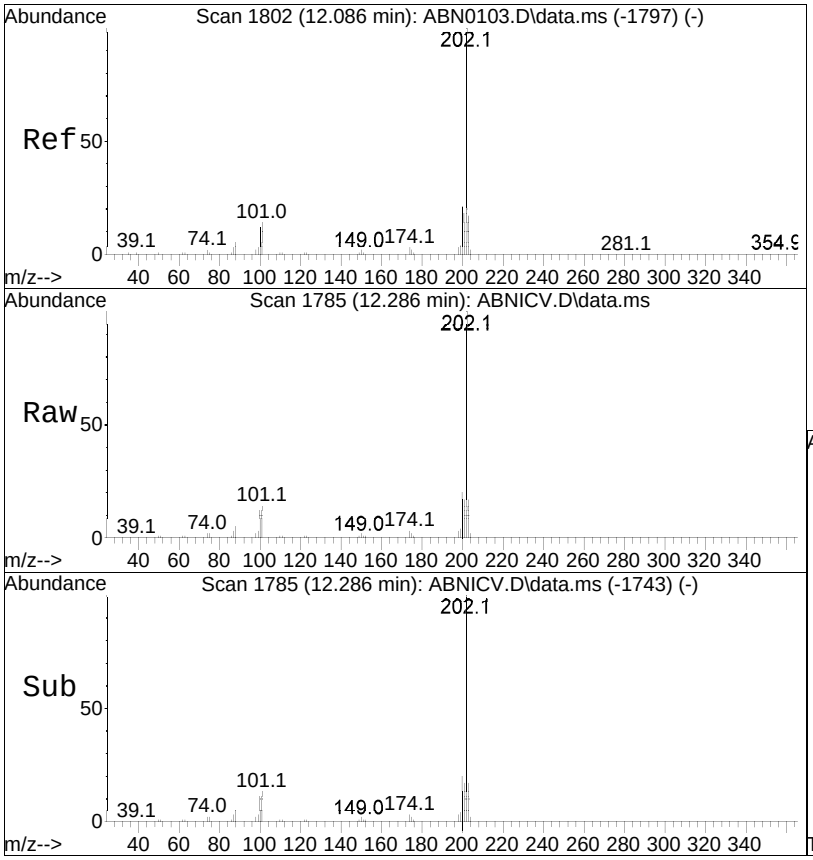


#93
Benzidine
Concen: 5.03 ug/ml
RT: 12.233 min Scan# 1776
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:184 Resp: 190778

Ion	Ratio	Lower	Upper
184	100		
92	7.8	9.1	13.7#
185	14.4	11.1	16.7

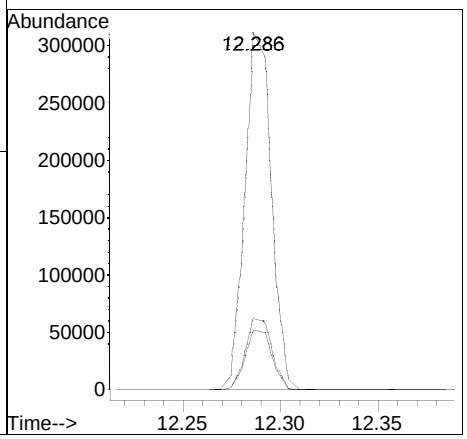


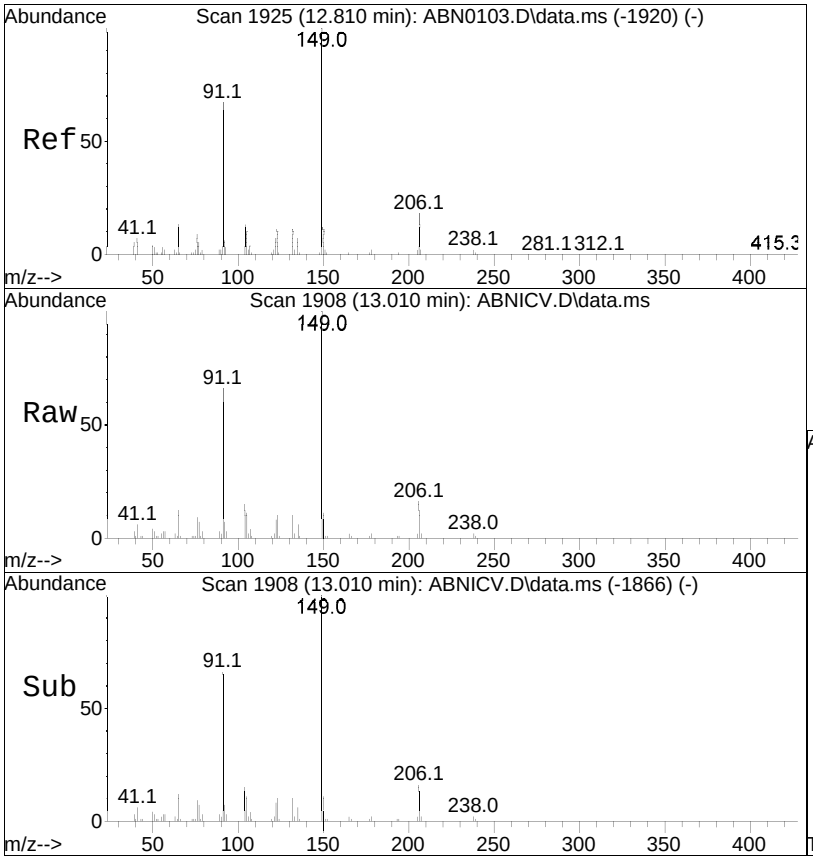


#94
Pyrene
Concen: 4.81 ug/ml
RT: 12.286 min Scan# 1785
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:202 Resp: 292413

Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.7	25.1
203	17.1	14.2	21.4

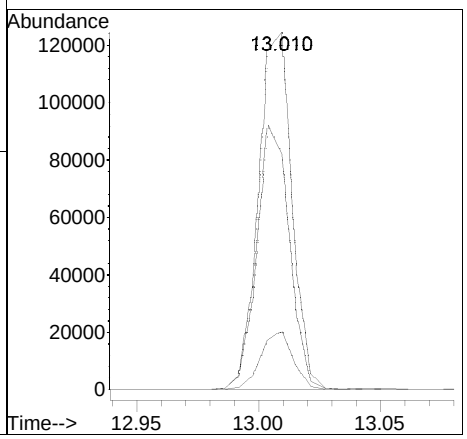


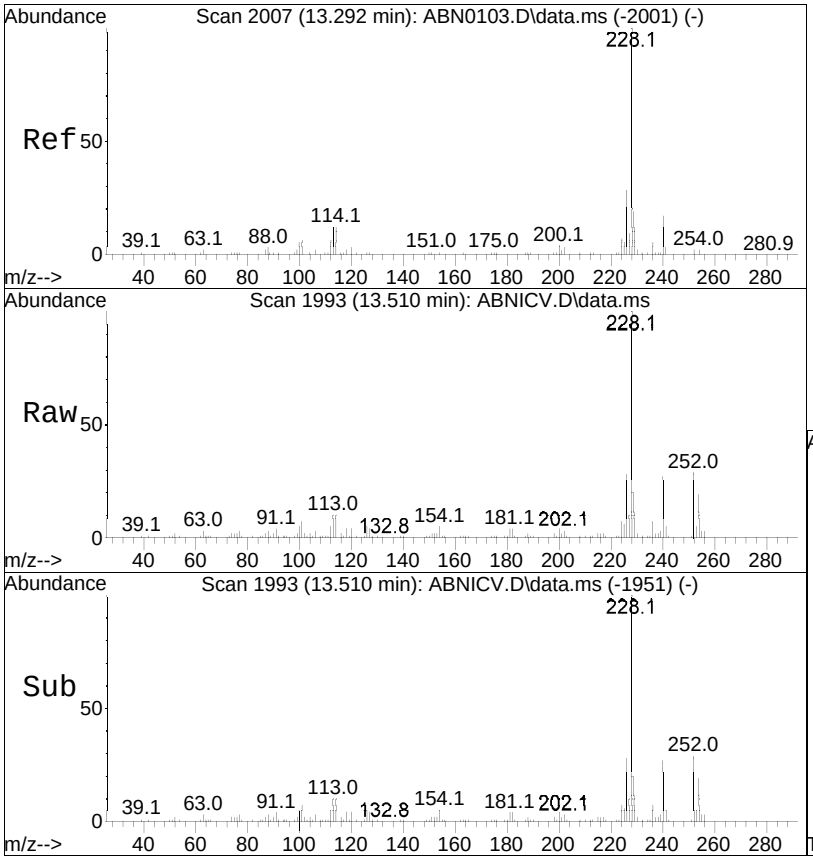


#96
Butyl benzyl phthalate
Concen: 4.40 ug/ml
RT: 13.010 min Scan# 1908
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:149 Resp: 117354

Ion	Ratio	Lower	Upper
149	100		
91	72.2	63.3	94.9
206	15.8	13.9	20.9

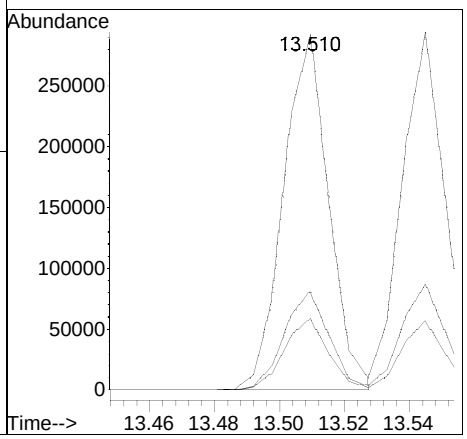


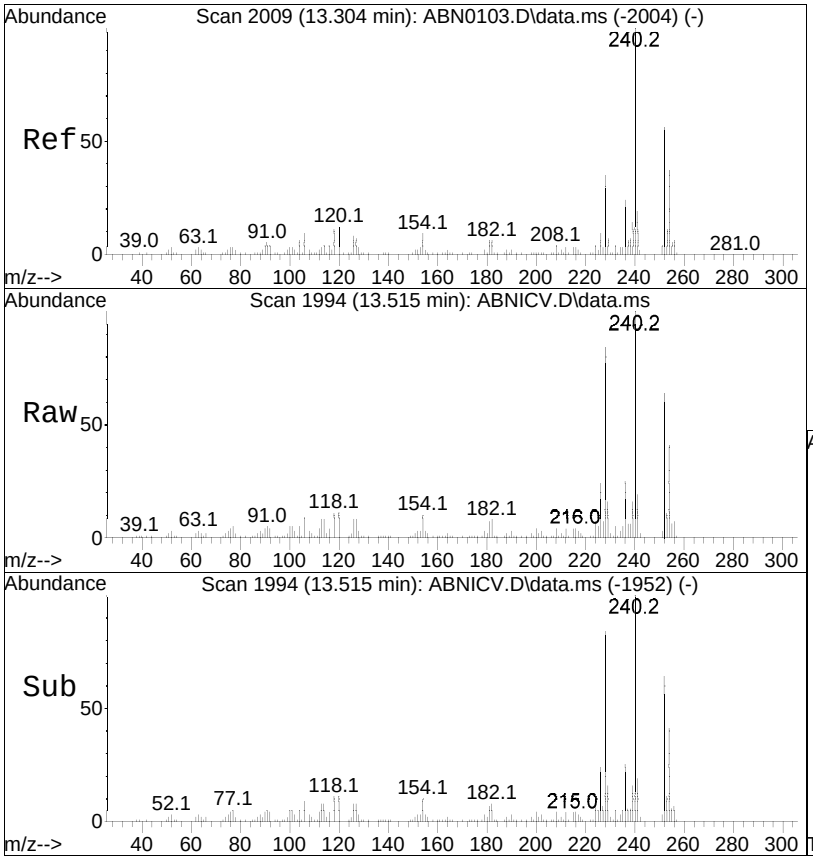


#104
Benzo(a)anthracene
Concen: 4.76 ug/ml
RT: 13.510 min Scan# 1993
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:228 Resp: 282690

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.4
229	19.8	15.6	23.4

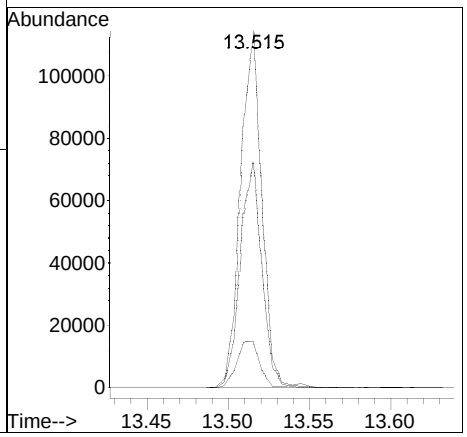


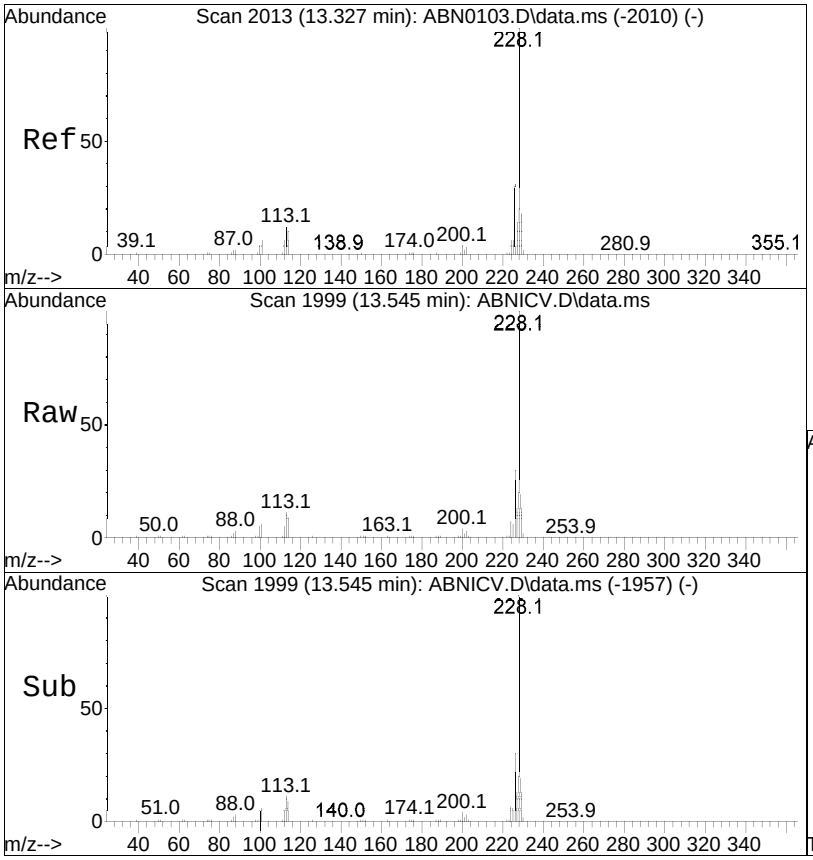


#105
3,3'-Dichlorobenzidine
Concen: 4.92 ug/ml
RT: 13.515 min Scan# 1994
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:252 Resp: 103983

Ion	Ratio	Lower	Upper
252	100		
126	14.4	14.5	21.7#
254	64.1	51.2	76.8

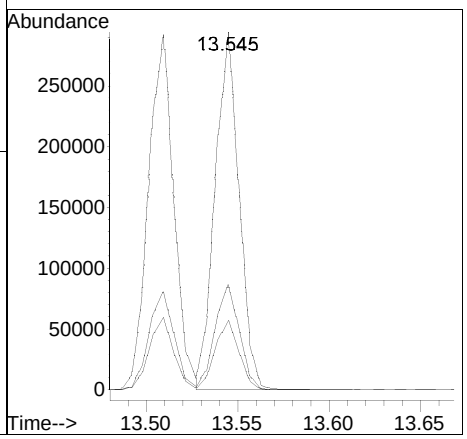


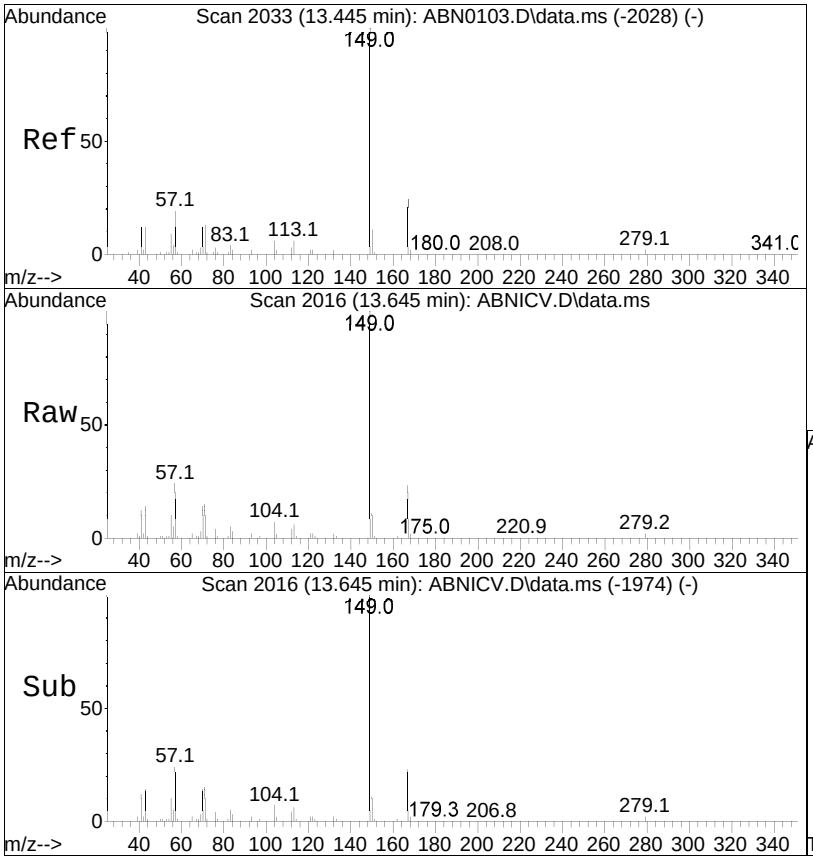


#106
Chrysene
Concen: 4.87 ug/ml
RT: 13.545 min Scan# 1999
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:228 Resp: 268550

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.0	36.0
229	19.4	15.8	23.8

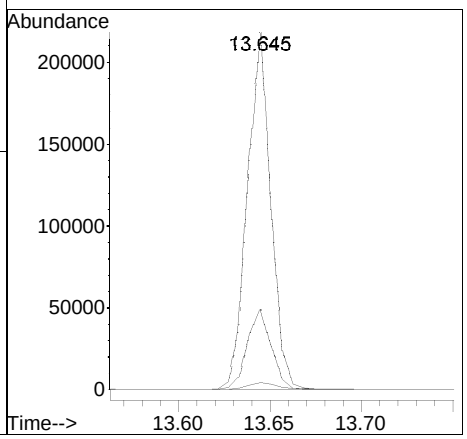


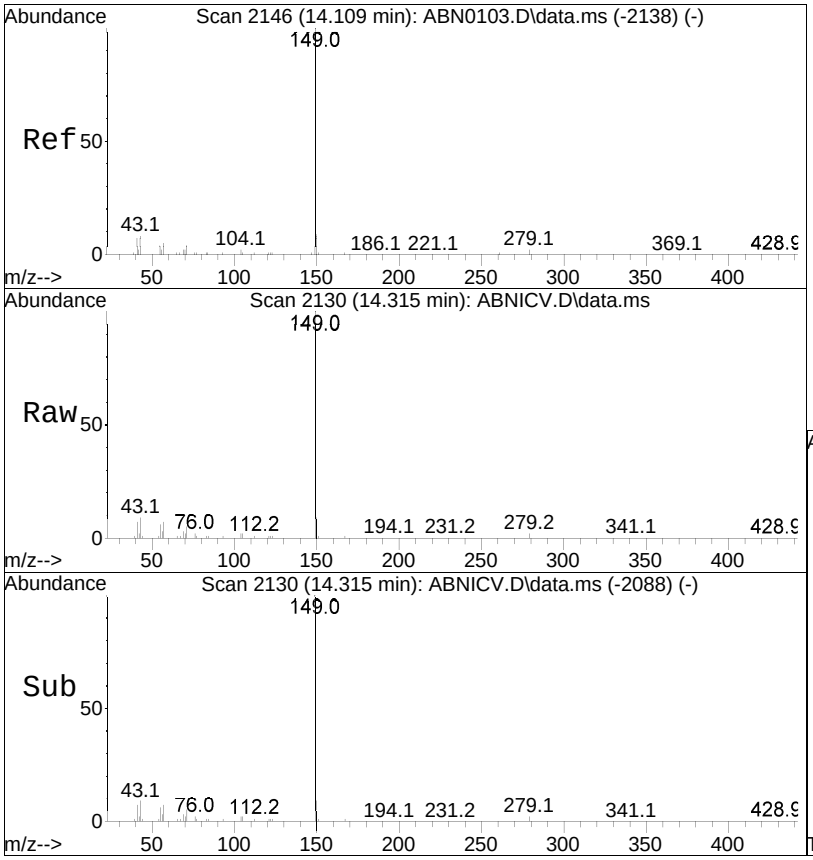


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.81 ug/ml
RT: 13.645 min Scan# 2016
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:149 Resp: 191400

Ion	Ratio	Lower	Upper
149	100		
167	23.1	22.1	33.1
279	2.3	3.0	4.4#

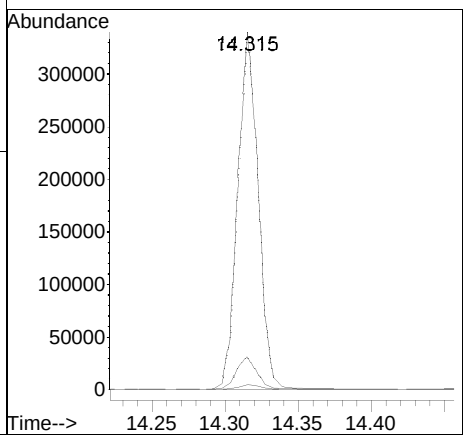


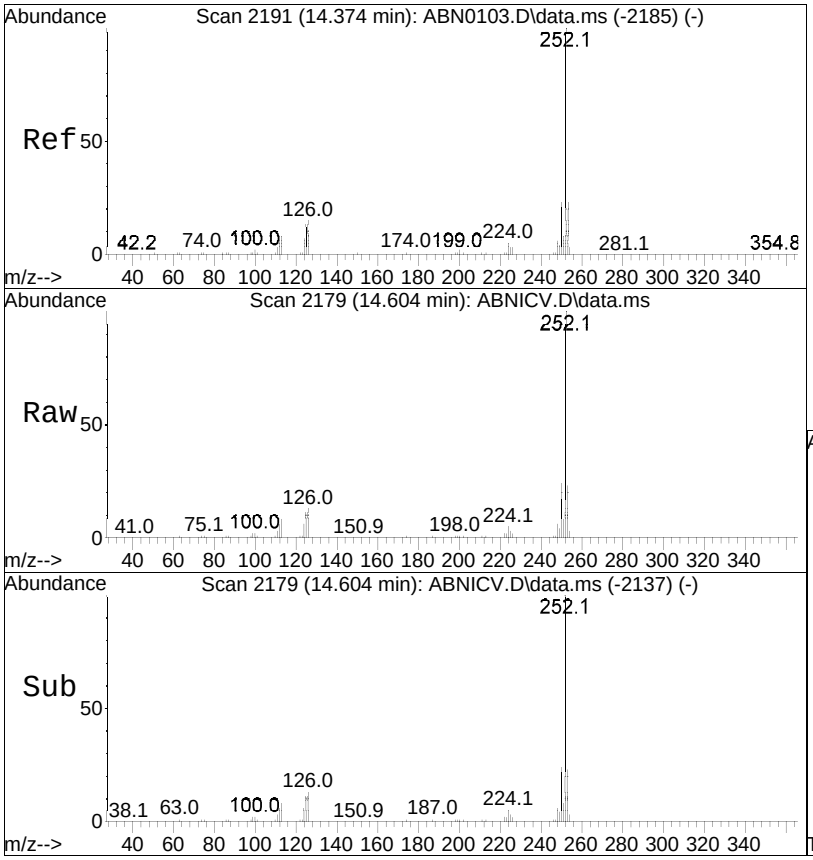


#108
Di-n-octylphthalate
Concen: 4.84 ug/ml
RT: 14.315 min Scan# 2130
Delta R.T. -0.001 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:149 Resp: 325055

Ion	Ratio	Lower	Upper
149	100		
43	9.5	18.8	28.2#
167	1.3	1.3	1.9#

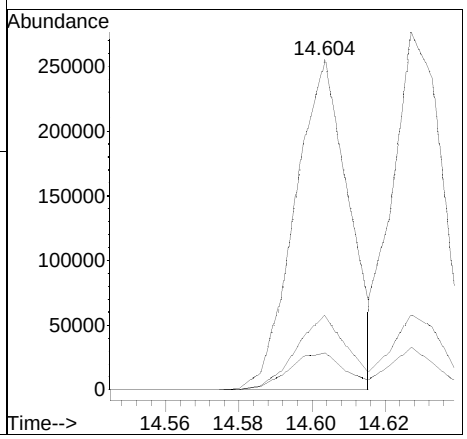


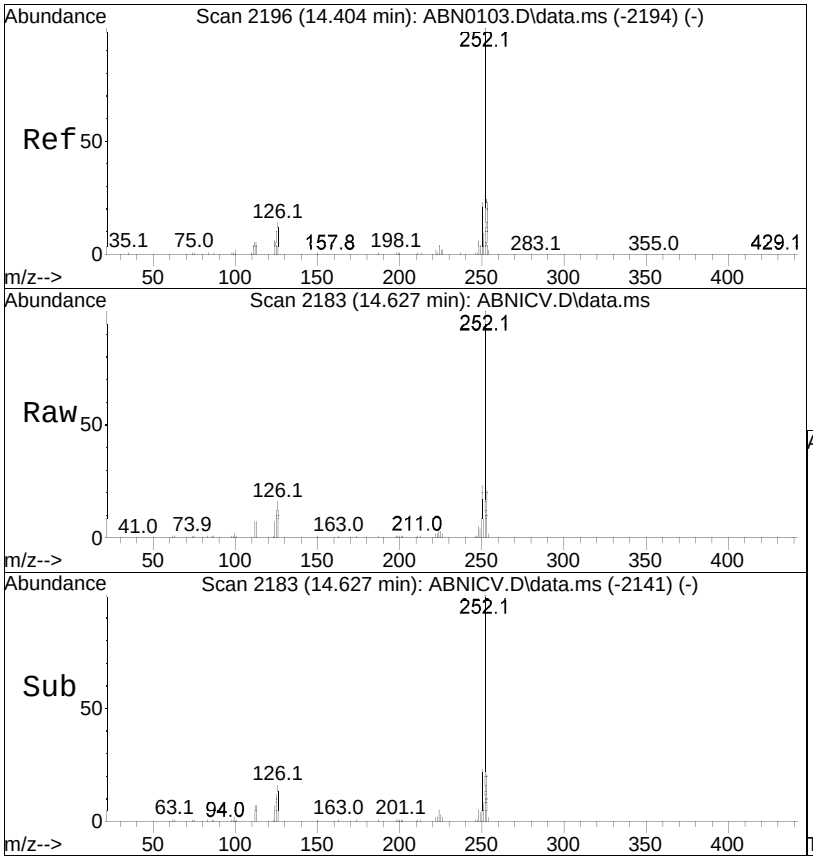


#109
Benzo(b)fluoranthene
Concen: 4.70 ug/ml
RT: 14.604 min Scan# 2179
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:252 Resp: 267047

Ion	Ratio	Lower	Upper
252	100		
125	12.0	13.3	19.9#
253	21.8	17.1	25.7

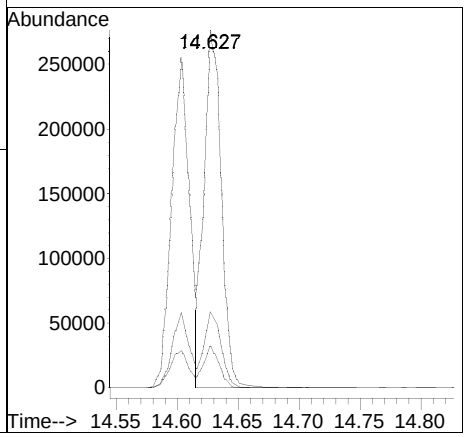


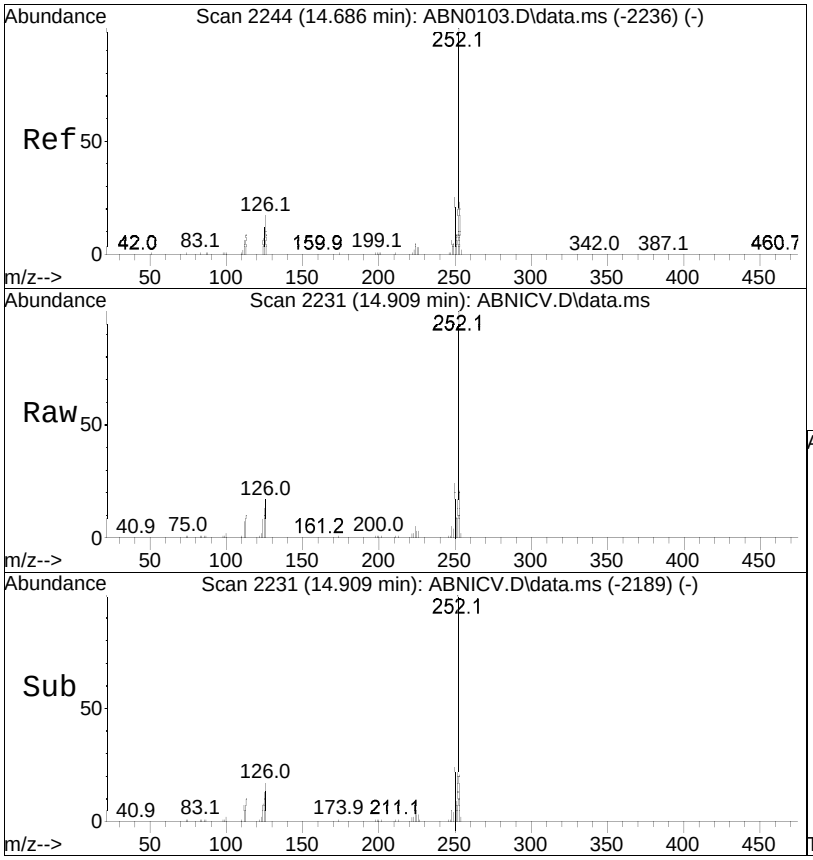


#110
Benzo(k)fluoranthene
Concen: 4.91 ug/ml
RT: 14.627 min Scan# 2183
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:252 Resp: 267153

Ion	Ratio	Lower	Upper
252	100		
125	10.7	13.0	19.6#
253	21.1	16.8	25.2

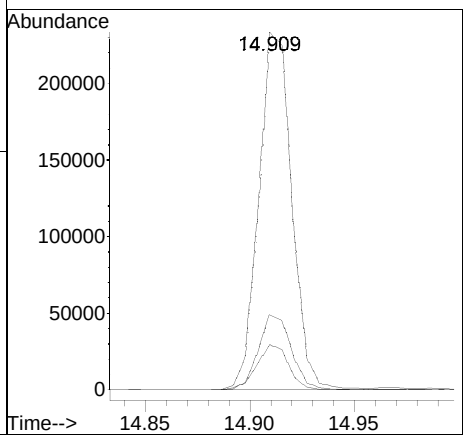


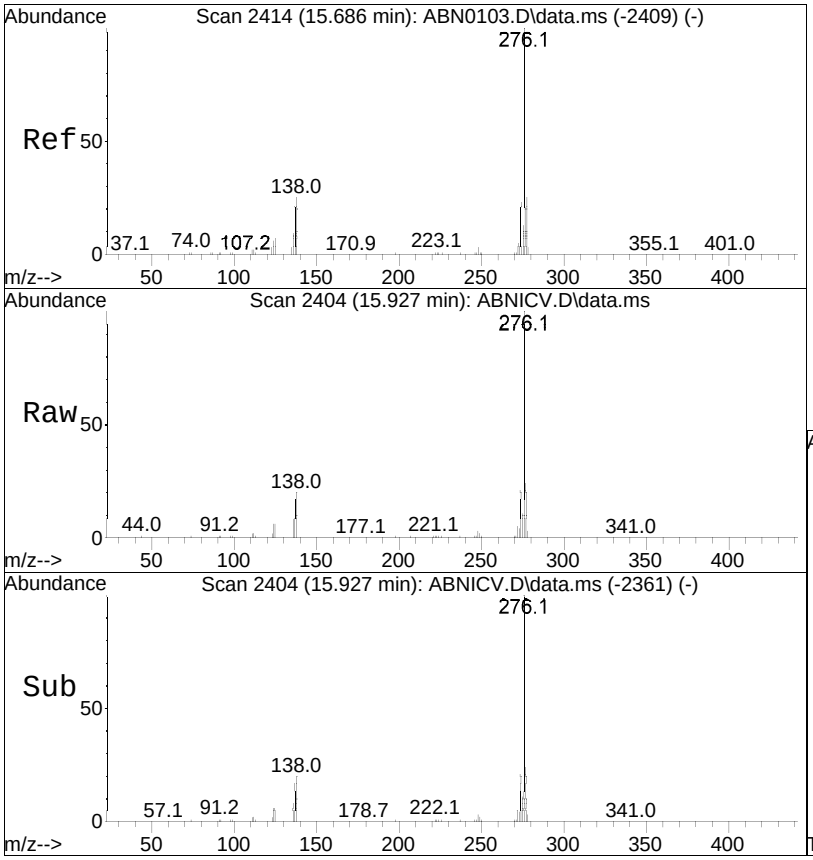


#111
Benzo(a)pyrene
Concen: 5.23 ug/ml
RT: 14.909 min Scan# 2231
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:252 Resp: 253755

Ion	Ratio	Lower	Upper
252	100		
125	12.4	14.2	21.2#
253	21.1	16.9	25.3

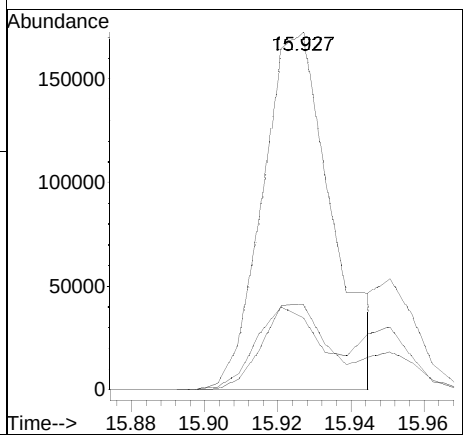


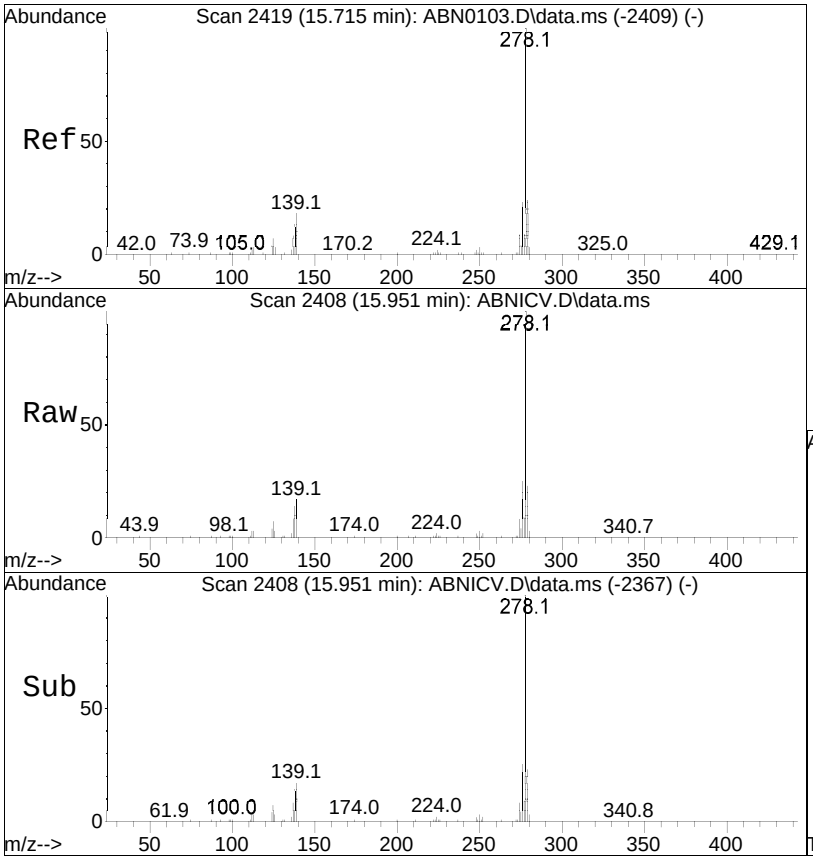


#113
Indeno(1,2,3-cd)pyrene
Concen: 4.94 ug/mL M6
RT: 15.927 min Scan# 2404
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:276 Resp: 226891

Ion	Ratio	Lower	Upper
276	100		
138	22.9	25.1	37.7#
277	31.2	18.6	28.0#

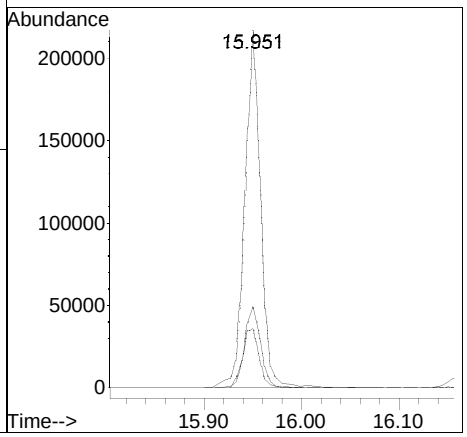


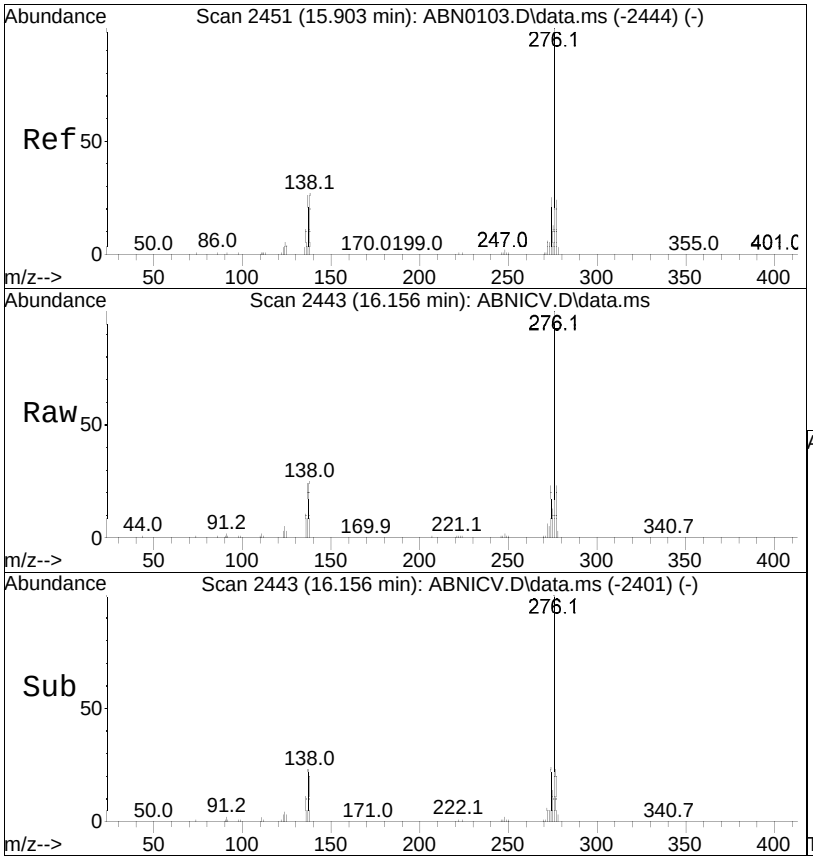


#114
Dibenzo(a,h)anthracene
Concen: 4.90 ug/ml
RT: 15.951 min Scan# 2408
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:278 Resp: 240753

Ion	Ratio	Lower	Upper
278	100		
139	17.4	20.8	31.2#
279	23.4	18.3	27.5

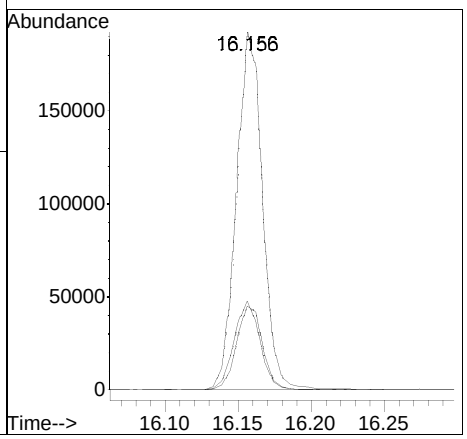




#115
Benzo(ghi)perylene
Concen: 4.86 ug/ml
RT: 16.156 min Scan# 2443
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 2 Sep 2023 8:07 pm

Tgt Ion:276 Resp: 236559

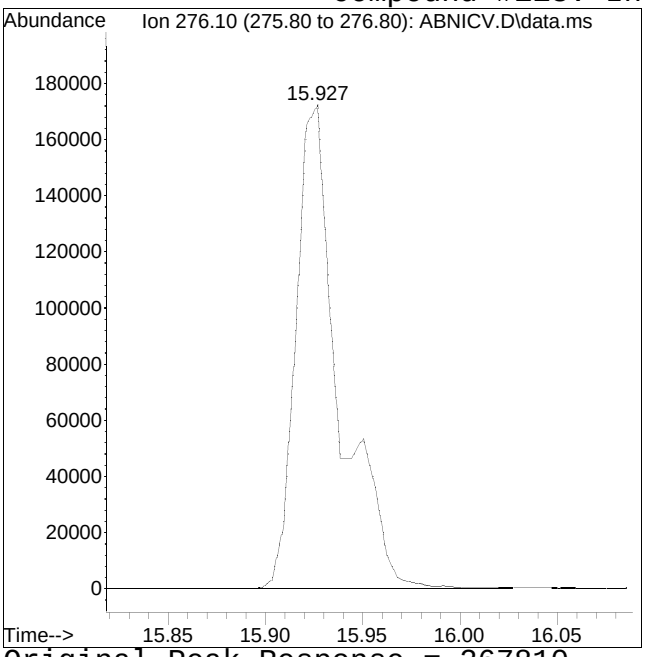
Ion	Ratio	Lower	Upper
276	100		
138	24.9	29.2	43.8#
277	23.7	18.8	28.2



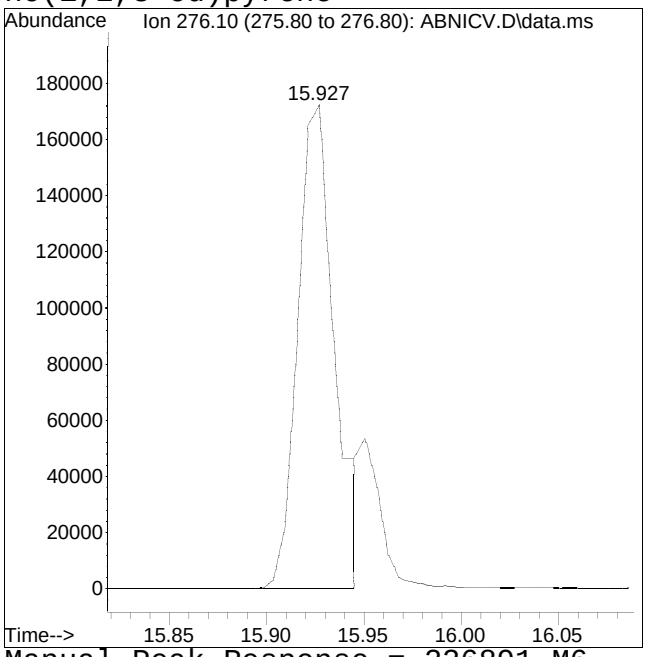
Manual Integration Report

Data Path : I:\8270\SV106\230902lviicaQMethod : FS230902SV106.m
Data File : ABNICV.D Operator : SV106:ljg
Date Inj'd : 9/2/2023 8:07 pm Instrument : SV 106
Sample : CQICV1,32,,ABNICV Lot# 102Quant Date : 9/5/2023 11:13 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 267810



Manual Peak Response = 226891 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9ICV.D
Acq On : 2 Sep 2023 8:31 pm
Operator : SV106:ljg
Sample : CQICV2,32,,AP9ICV Lot# 10098
Misc : WG1823680,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 05 11:17:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:10 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	103	0.00
28	T	Benzaldehyde		5.000	5.700	-14.0	79	0.00
29	T	Acetophenone		1.994	1.814	9.0	72	0.00
30	T	m-Toluidine		1.550	1.612	-4.0	76	0.00
31	T	2-Chloroaniline		1.670	1.554	6.9	73	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	101	0.00
55	T	a-Terpineol		0.289	0.277	4.2	75	0.00
56	T	3-Chloroaniline		0.150	0.143	4.7	71	0.00
57	T	2,6-Dichlorophenol		0.277	0.266	4.0	71	0.00
58	T	1-chloro-2-nitrobenzene		0.131	0.127	3.1	74	0.00
59	T	Caprolactam		0.147	0.140	4.8	71	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.348	0.327	6.0	74	0.00
61	T	Biphenyl		0.856	0.815	4.8	74	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	101	0.00
83	T	Dichloran	*	5.000	4.468	10.6	68	0.00
84	T	Pentachloronitrobenzene	*	5.000	4.843	3.1	74	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	99	0.00
98	T	Diphenamid		0.508	0.497	2.2	71	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9ICV.D
Acq On : 2 Sep 2023 8:31 pm
Operator : SV106:ljg
Sample : CQICV2,32,,AP9ICV Lot# 10098
Misc : WG1823680,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 05 11:17:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:10 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	6.281	152	45998	4.000	ug/ml		0.00
Standard Area 1 = 44570			Recovery =	103.20%			
54) IS2_Naphthalene-d8	7.716	136	171902	4.000	ug/ml		0.00
Standard Area 1 = 169751			Recovery =	101.27%			
82) IS2_Acenaphthene-d10	9.475	164	91465	4.000	ug/ml		0.00
Standard Area 1 = 90319			Recovery =	101.27%			
97) IS2_Phenanthrene-d10	10.904	188	181296	4.000	ug/ml	#	0.00
Standard Area 1 = 182619			Recovery =	99.28%			
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	5.687	105	57187	5.700	ug/ml		95
29) Acetophenone	6.787	105	104323	4.549	ug/ml	#	82
30) m-Toluidine	6.887	106	92668	5.200	ug/ml		95
31) 2-Chloroaniline	7.292	127	89358	4.652	ug/ml	#	94
55) a-Terpineol	7.792	59	59544	4.799	ug/ml	#	77
56) 3-Chloroaniline	7.804	65	30638	4.740	ug/ml		91
57) 2,6-Dichlorophenol	7.828	162	57232	4.814	ug/ml		91
58) 1-chloro-2-nitrobenzene	8.098	111	27211	4.831	ug/ml	#	1
59) Caprolactam	8.133	55	30067	4.771	ug/ml	#	72
60) 1,2,4,5-Tetrachloroben...	8.628	216	70230	4.697	ug/ml		99
61) Biphenyl	8.928	154	175098	4.761	ug/ml		100
83) Dichloran	10.604	206	13152	4.468	ug/ml		87
84) Pentachloronitrobenzene	10.757	237	18573	4.843	ug/ml	#	80
98) Diphenamid	11.816	167	112554	4.888	ug/ml	#	83

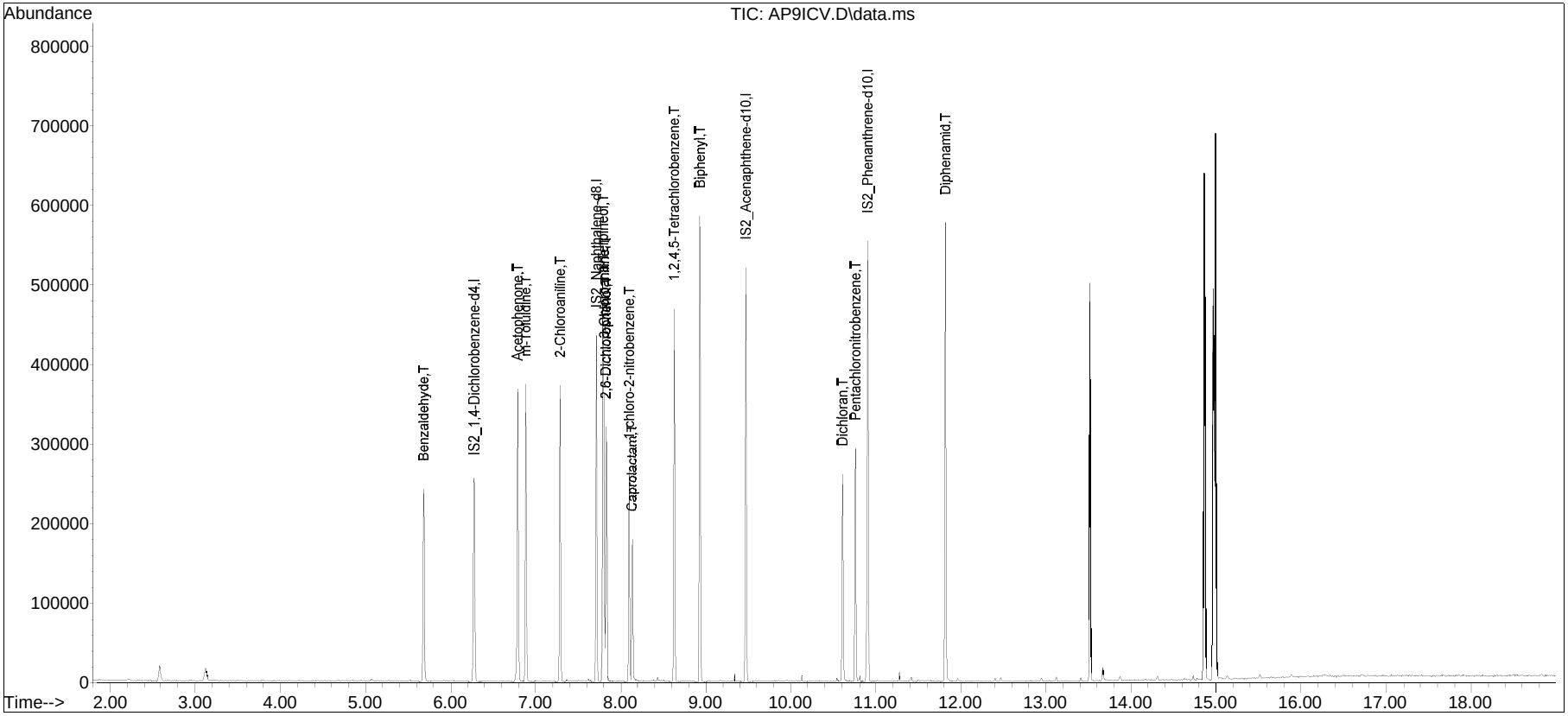
(#) = qualifier out of range (m) = manual integration (+) = signals summed

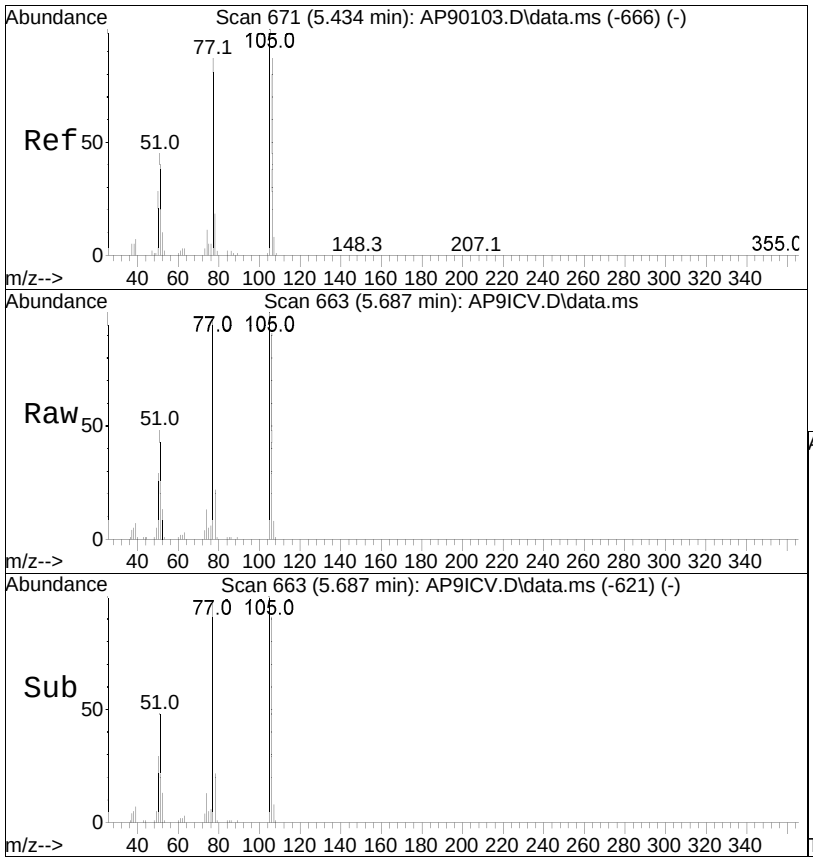
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : AP9ICV.D
Acq On : 2 Sep 2023 8:31 pm
Operator : SV106:ljg
Sample : CQICV2,32,,AP9ICV Lot# 10098
Misc : WG1823680,,ical
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 05 11:17:18 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:10 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistiical\AP9L6.D•

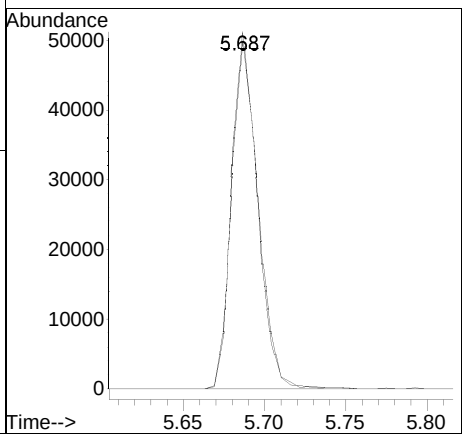


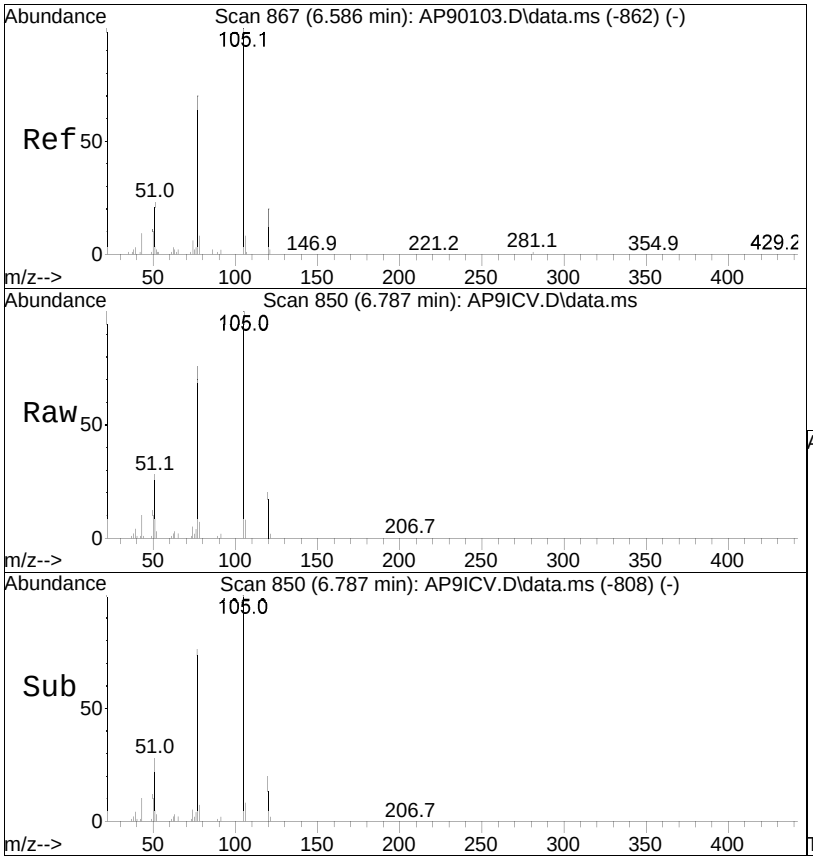


#28
Benzaldehyde
Concen: 5.70 ug/ml
RT: 5.687 min Scan# 663
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:105 Resp: 57187

Ion	Ratio	Lower	Upper
105	100		
77	97.4	82.2	123.4

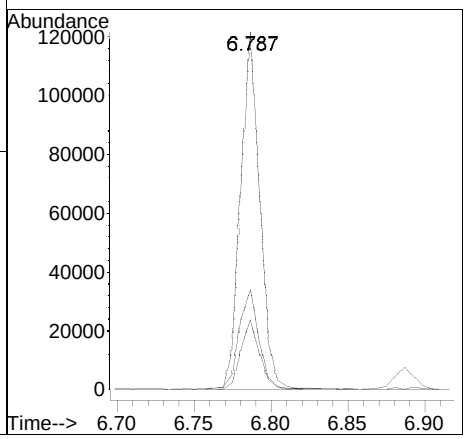


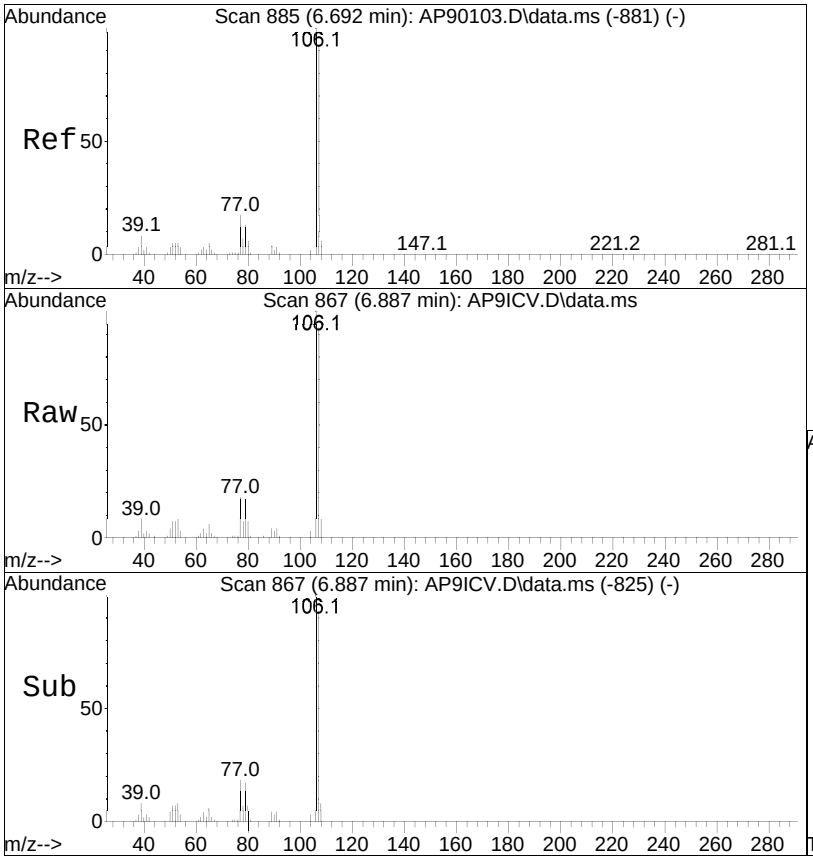


#29
Acetophenone
Concen: 4.55 ug/ml
RT: 6.787 min Scan# 850
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:105 Resp: 104323

Ion	Ratio	Lower	Upper
105	100		
120	19.2	20.5	30.7#
51	29.6	34.9	52.3#

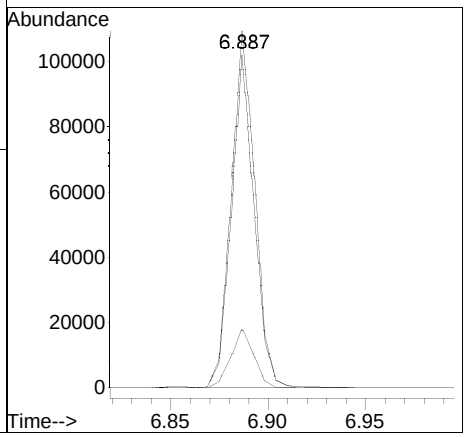


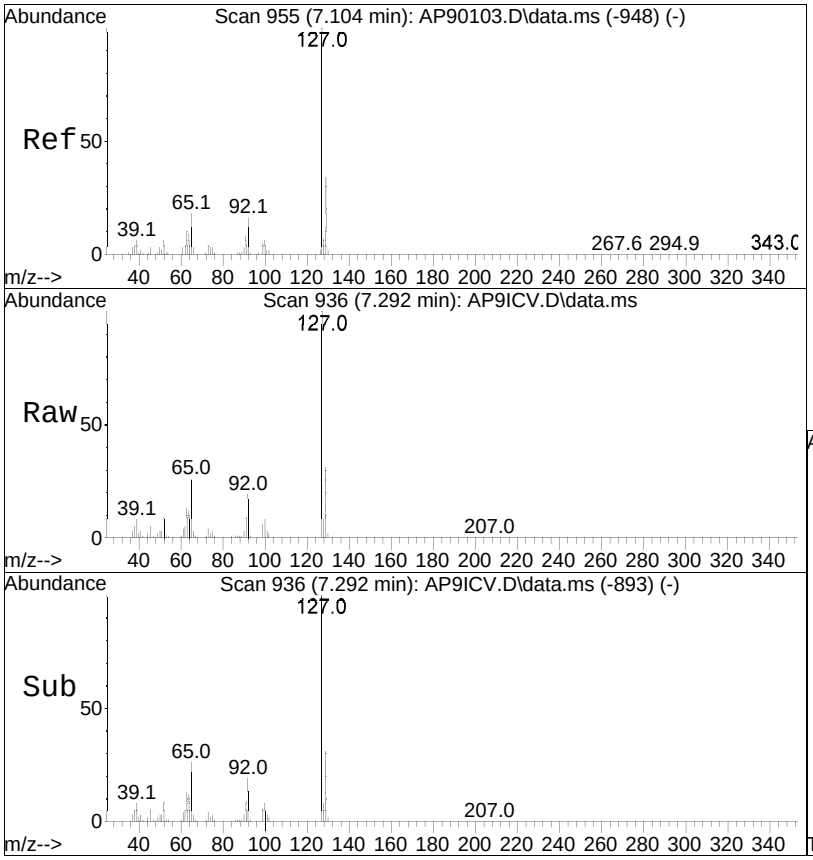


#30
m-Toluidine
Concen: 5.20 ug/ml
RT: 6.887 min Scan# 867
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:106 Resp: 92668

Ion	Ratio	Lower	Upper
106	100		
107	89.6	75.7	113.5
79	15.9	11.8	17.8

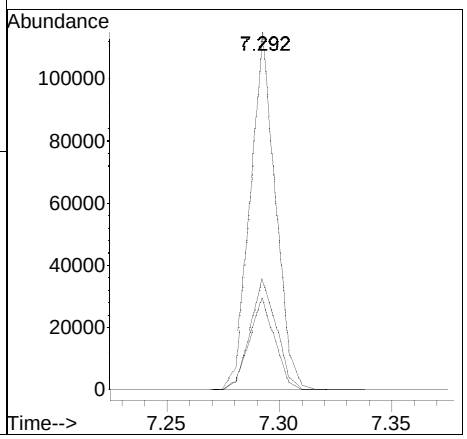


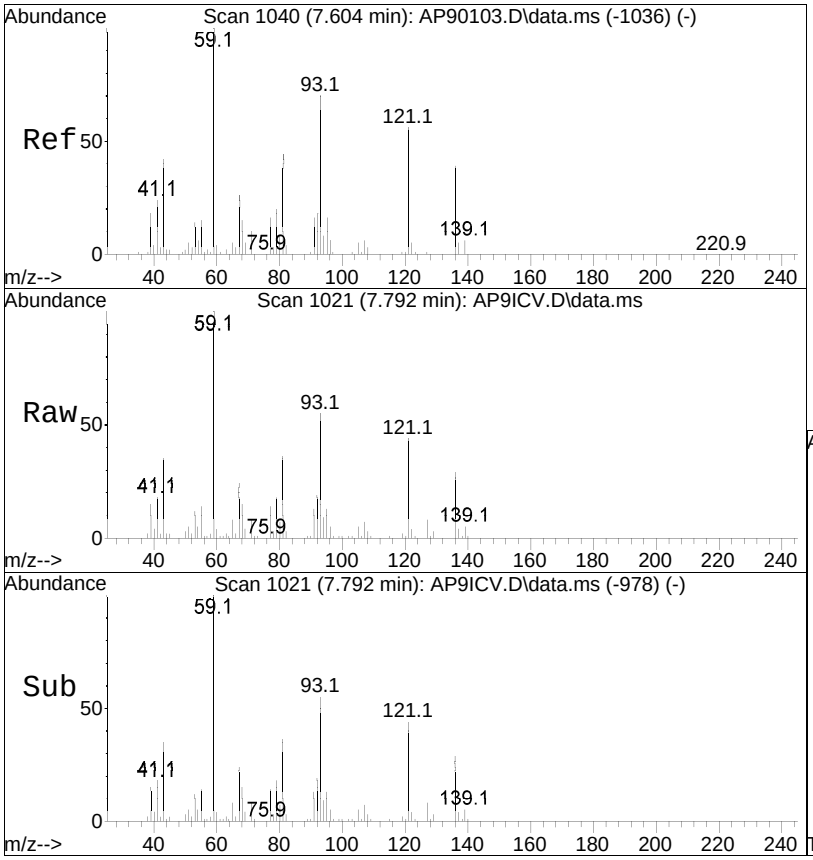


#31
2-Chloroaniline
Concen: 4.65 ug/ml
RT: 7.292 min Scan# 936
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:127 Resp: 89358

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.9	38.9
65	26.2	26.3	39.5#

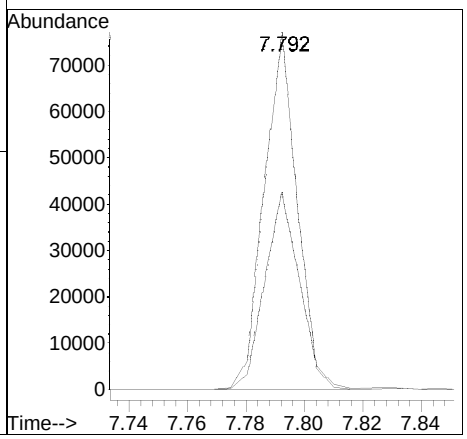


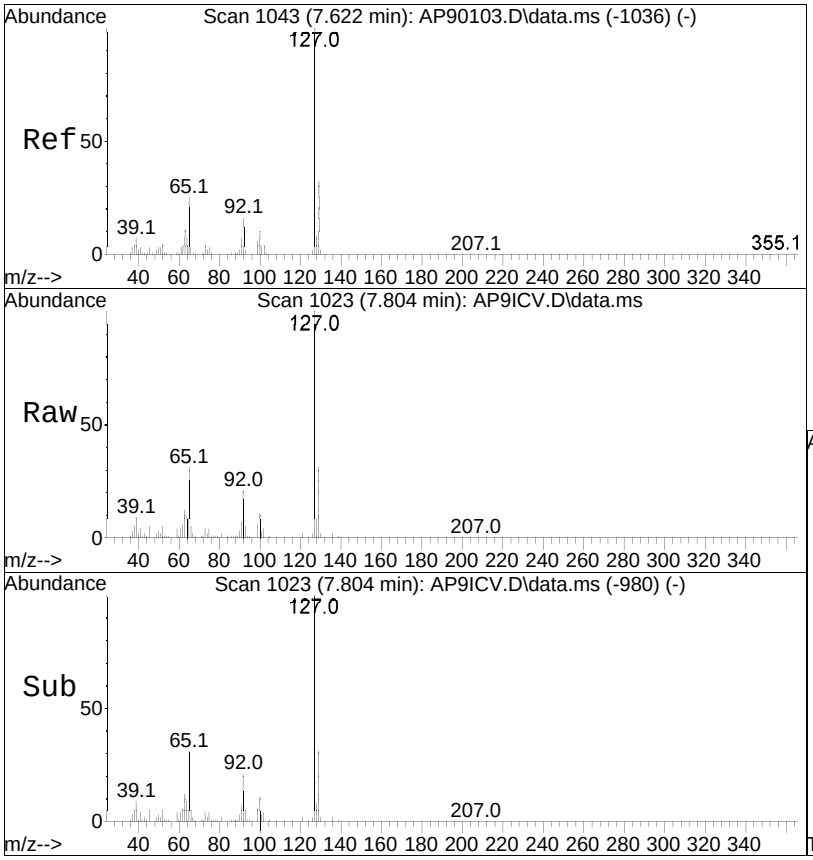


#55
a-Terpineol
Concen: 4.80 ug/ml
RT: 7.792 min Scan# 1021
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion: 59 Resp: 59544

Ion	Ratio	Lower	Upper
59	100		
93	59.2	35.6	53.4#

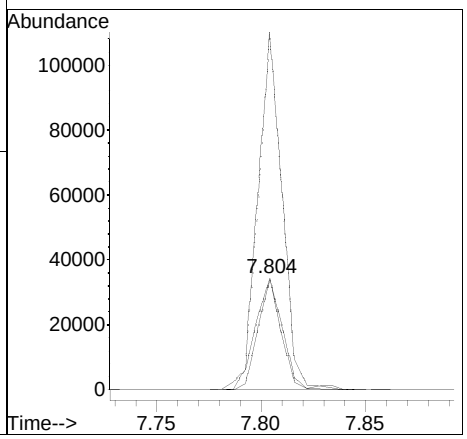


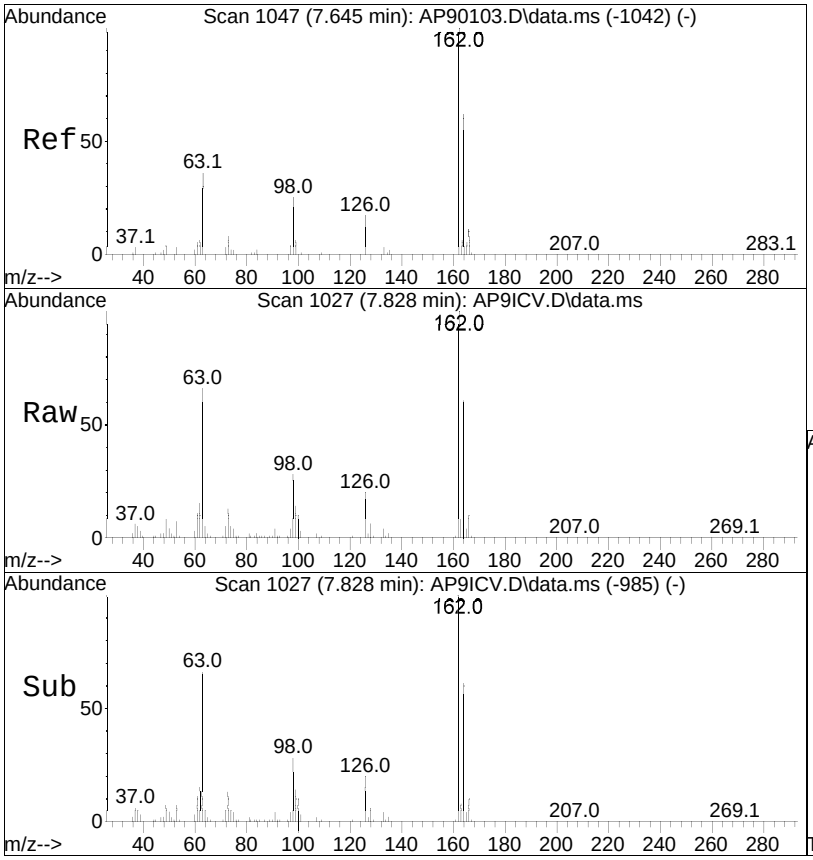


#56
3-Chloroaniline
Concen: 4.74 ug/ml
RT: 7.804 min Scan# 1023
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion: 65 Resp: 30638

Ion	Ratio	Lower	Upper
65	100		
127	284.6	243.2	364.8
129	90.8	78.8	118.2

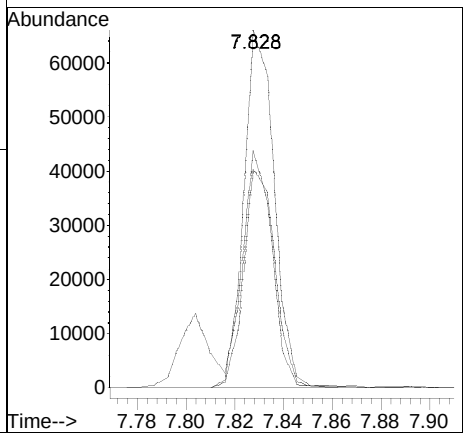


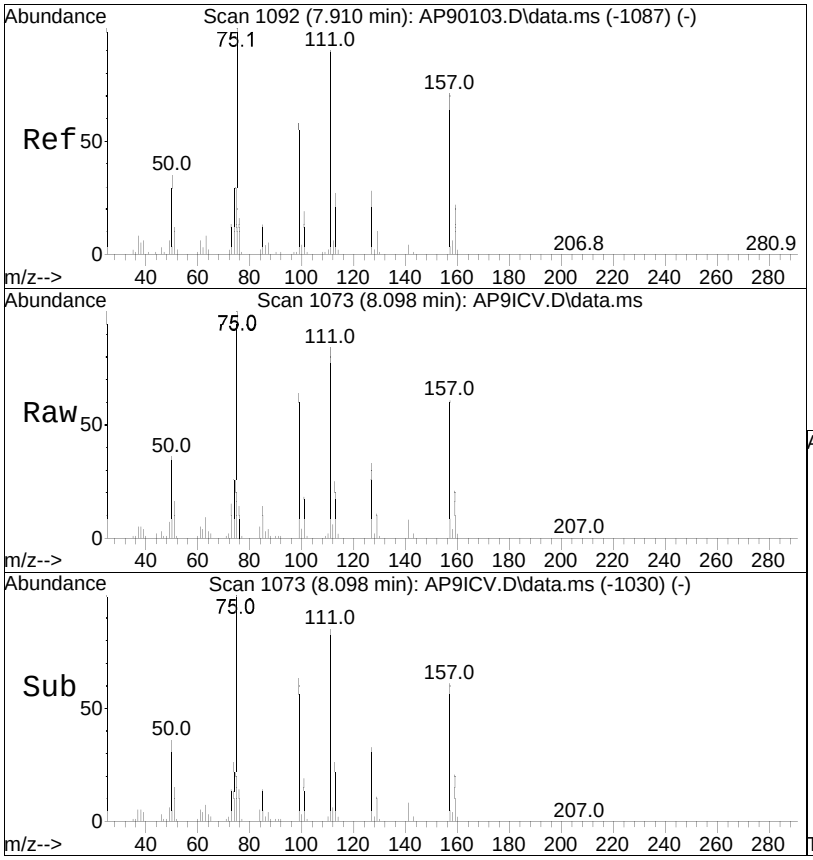


#57
2,6-Dichlorophenol
Concen: 4.81 ug/ml
RT: 7.828 min Scan# 1027
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:162 Resp: 57232

Ion	Ratio	Lower	Upper
162	100		
164	62.5	51.1	76.7
63	63.3	60.8	91.2

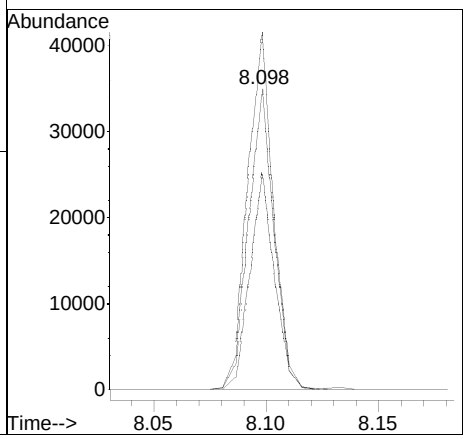


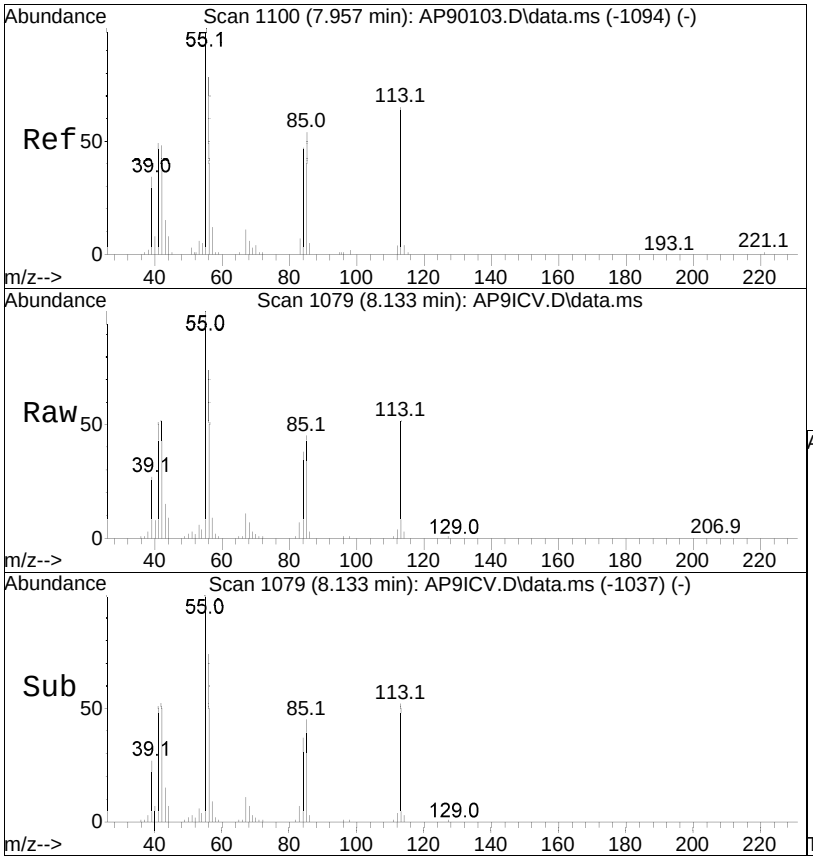


#58
1-chloro-2-nitrobenzene
Concen: 4.83 ug/ml
RT: 8.098 min Scan# 1073
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:111 Resp: 27211

Ion	Ratio	Lower	Upper
111	100		
157	69.6	0.0	0.0#
75	119.9	28.2	42.2#

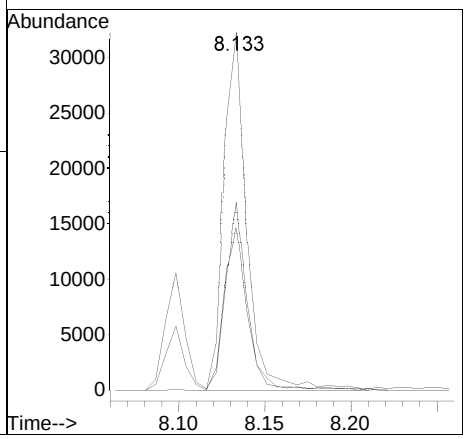


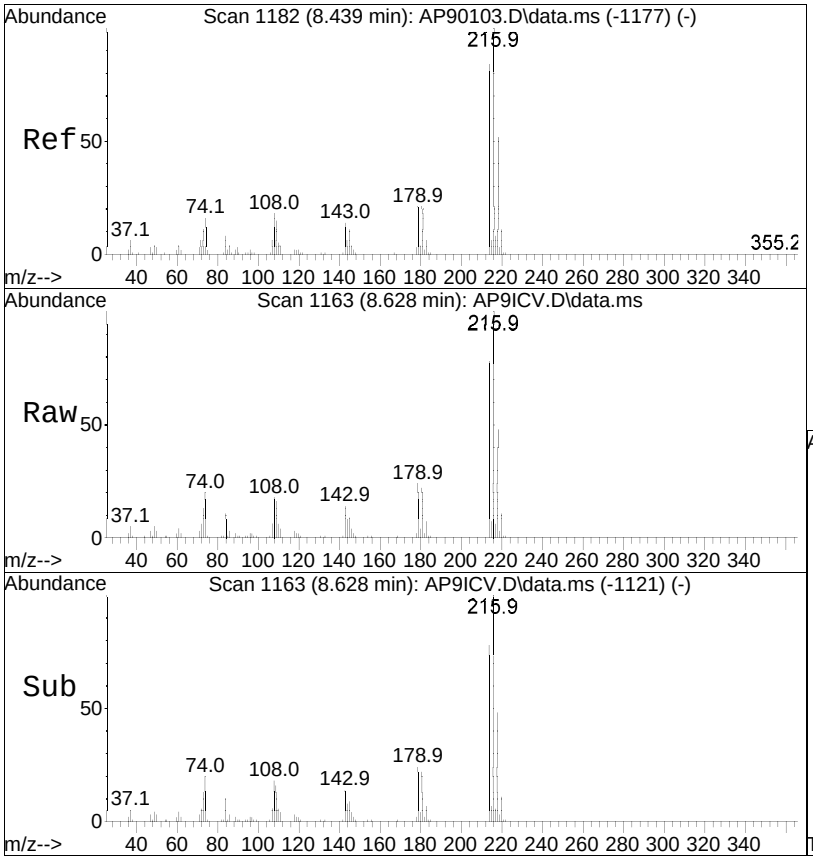


#59
Caprolactam
Concen: 4.77 ug/ml
RT: 8.133 min Scan# 1079
Delta R.T. -0.001 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion: 55 Resp: 30067

Ion	Ratio	Lower	Upper
55	100		
85	46.3	19.8	29.6#
113	47.2	29.6	44.4#

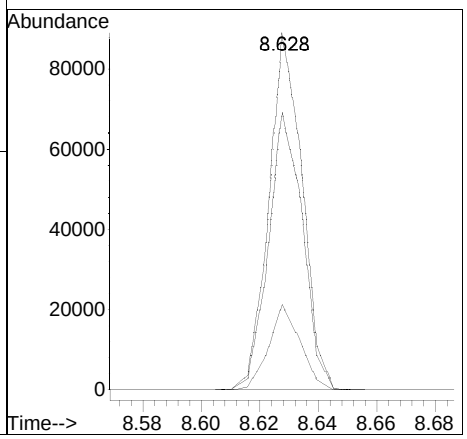


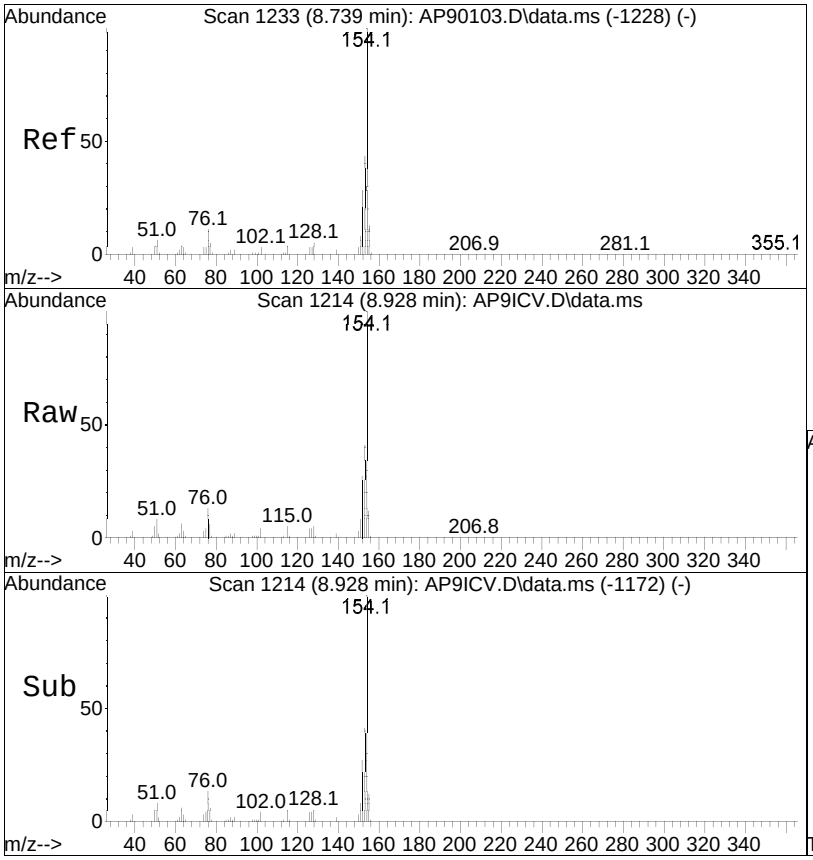


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.70 ug/ml
RT: 8.628 min Scan# 1163
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:216 Resp: 70230

Ion	Ratio	Lower	Upper
216	100		
214	79.7	63.7	95.5
179	22.8	19.0	28.6

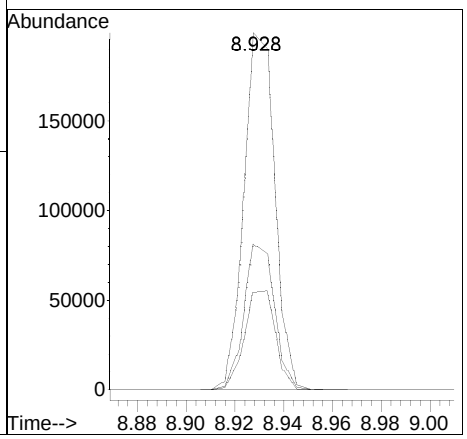


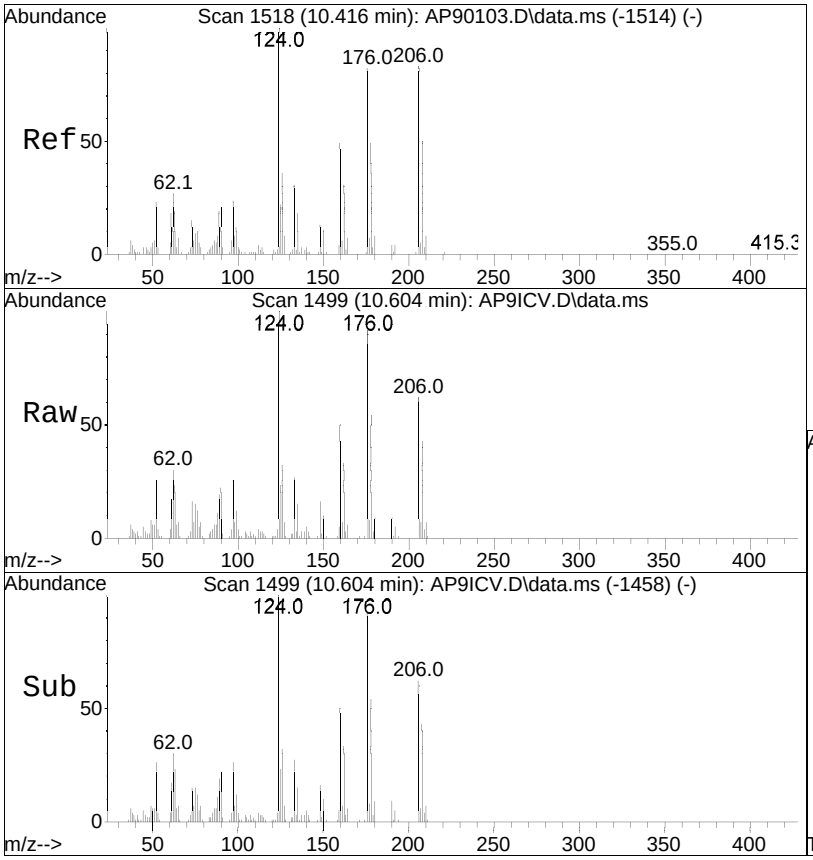


#61
Biphenyl
Concen: 4.76 ug/ml
RT: 8.928 min Scan# 1214
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:154 Resp: 175098

Ion	Ratio	Lower	Upper
154	100		
153	40.3	32.3	48.5
152	28.0	22.5	33.7

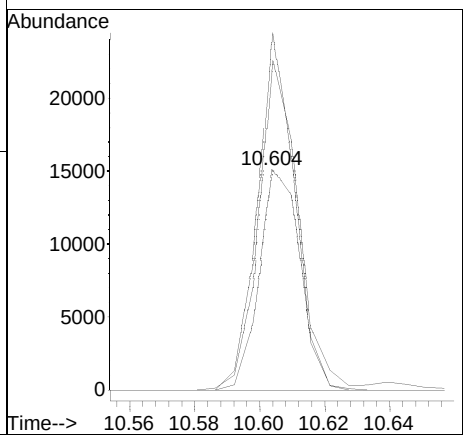


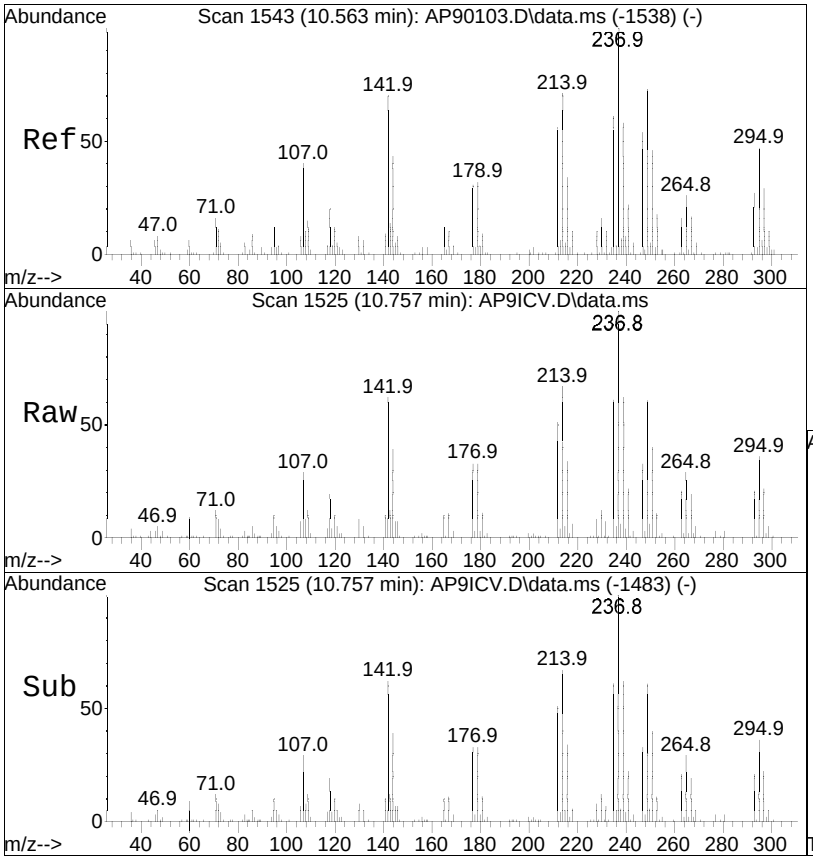


#83
Dichloran
Concen: 4.47 ug/ml
RT: 10.604 min Scan# 1499
Delta R.T. -0.006 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:206 Resp: 13152

Ion	Ratio	Lower	Upper
206	100		
176	145.2	104.6	157.0
124	145.5	130.5	195.7

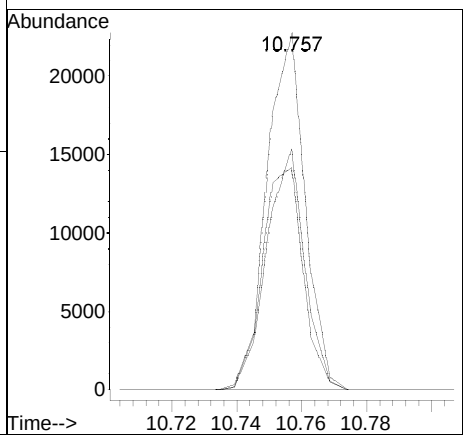


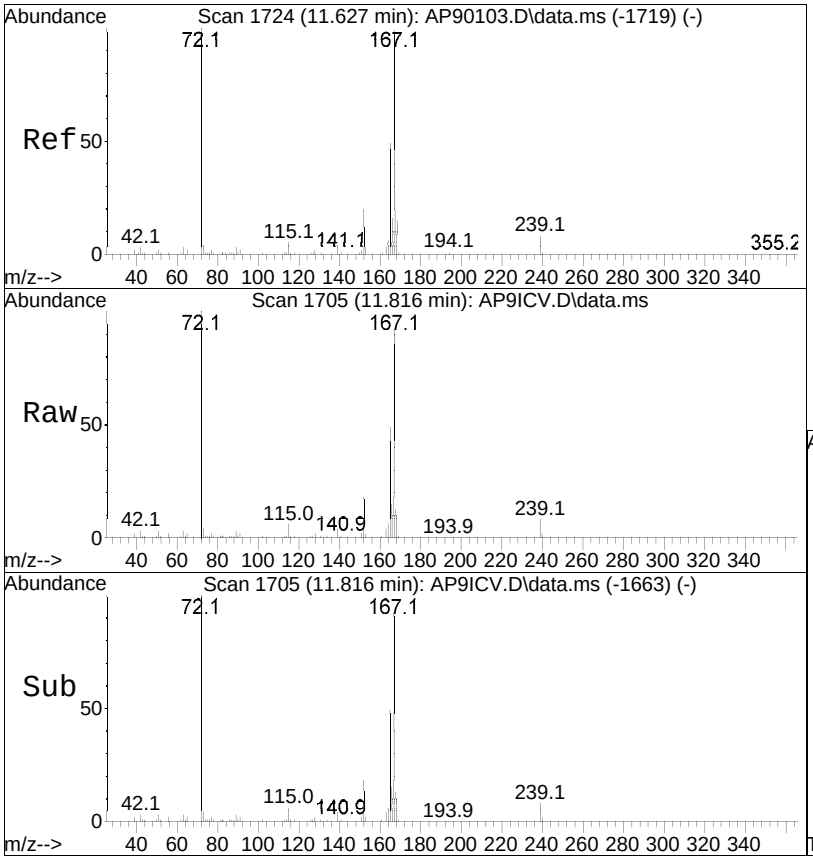


#84
Pentachloronitrobenzene
Concen: 4.84 ug/ml
RT: 10.757 min Scan# 1525
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:237 Resp: 18573

Ion	Ratio	Lower	Upper
237	100		
142	66.2	77.0	115.4#
214	67.1	58.2	87.4

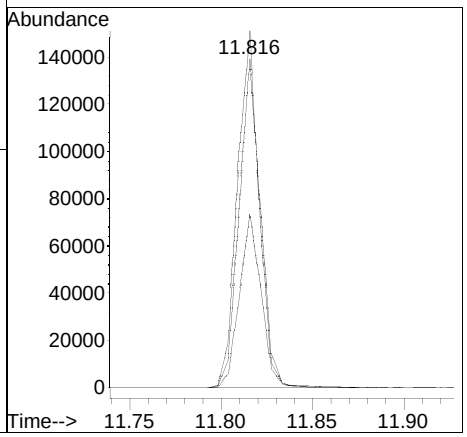




#98
Diphenamid
Concen: 4.89 ug/ml
RT: 11.816 min Scan# 1705
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 2 Sep 2023 8:31 pm

Tgt Ion:167 Resp: 112554

Ion	Ratio	Lower	Upper
167	100		
72	109.3	109.7	164.5#
165	53.7	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: AP9ICV.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 8:31 pm	Instrument	: SV 106
Sample	: CQICV2,32,,AP9ICV Lot# 100	Quant Date	: 9/5/2023 11:17 am

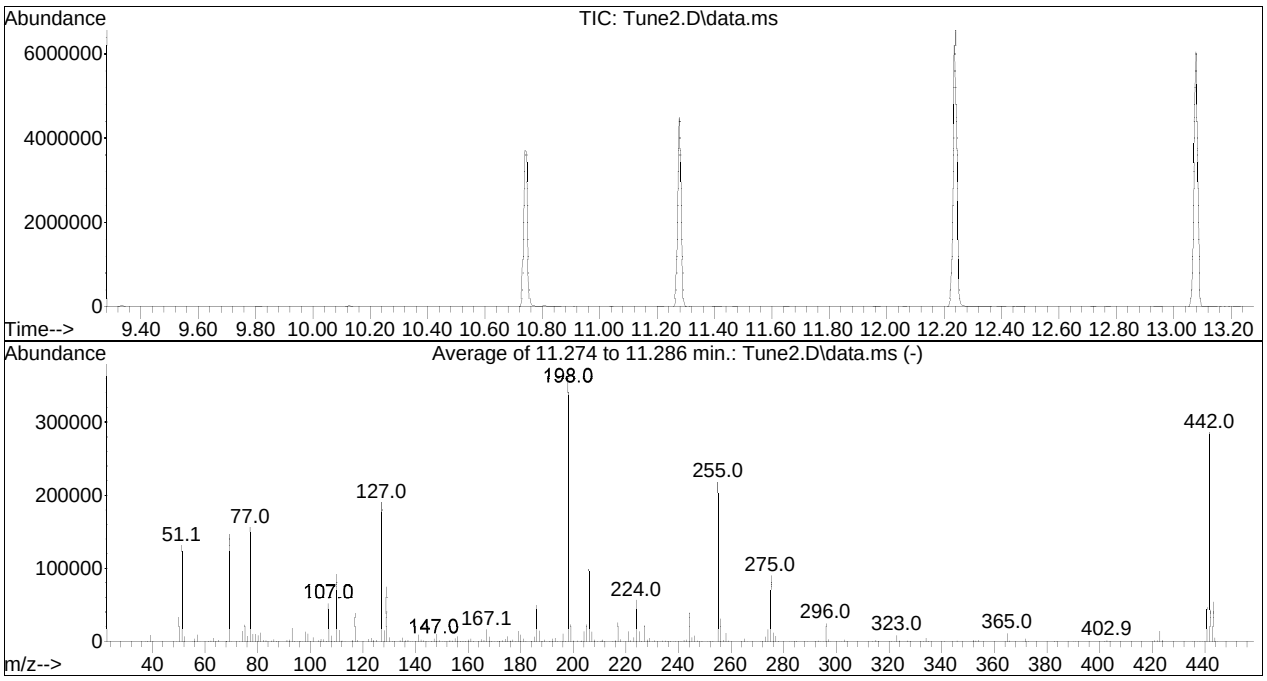
There are no manual integrations or false positives in this file.

DFTPP

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune2.D
Acq On : 2 Sep 2023 8:54 pm
Operator : SV106:ljg
Sample : Tune2
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 11:32:08 2023



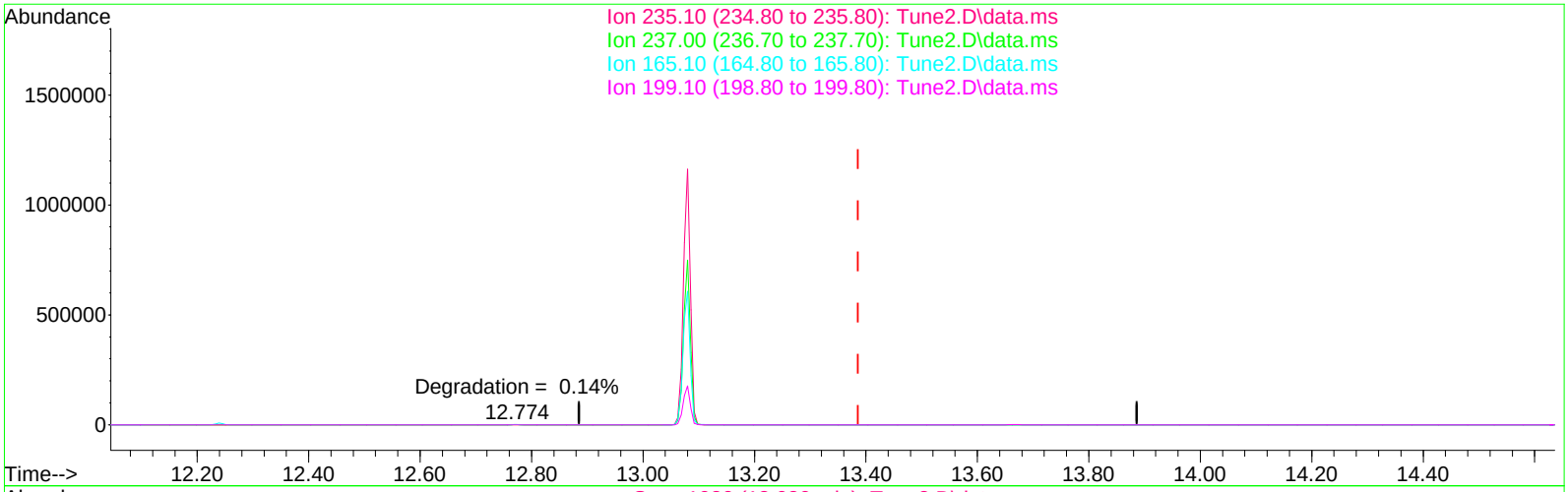
Spectrum Information: Average of 11.274 to 11.286 min.

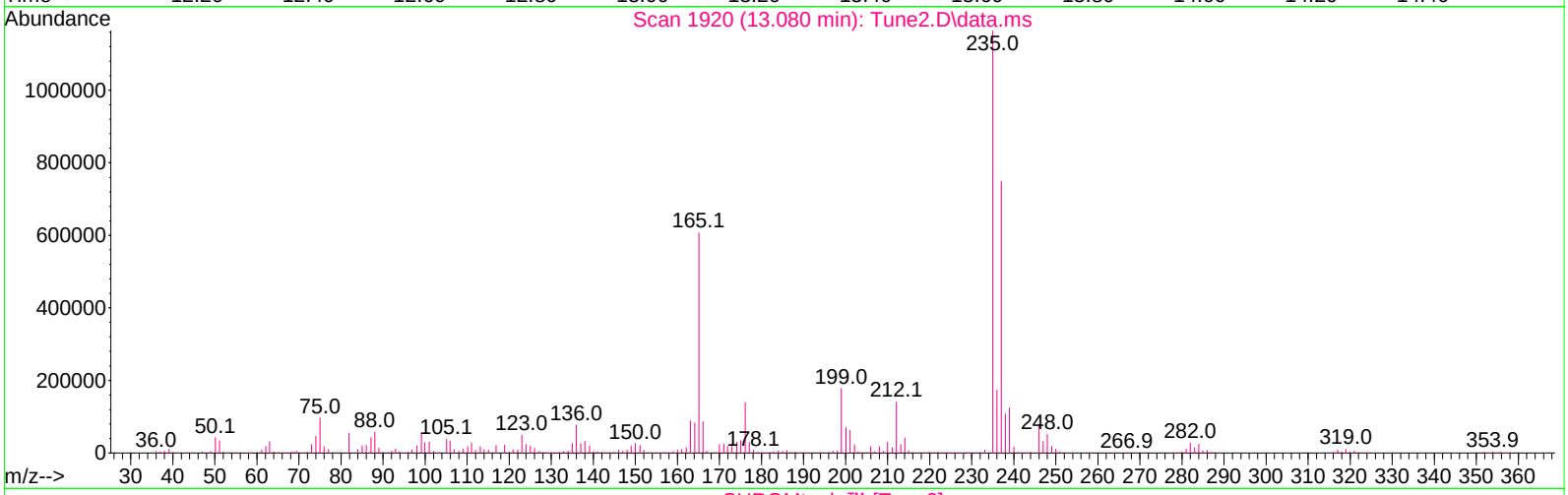
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.3	131080	PASS
68	69	0.00	2	0.8	1201	PASS
69	69	100	100	100.0	146037	PASS
70	69	0.00	2	0.5	756	PASS
127	198	10	80	52.5	189427	PASS
197	198	0.00	2	0.4	1377	PASS
198	198	100	100	100.0	360875	PASS
199	198	5	9	6.5	23397	PASS
275	198	10	60	24.7	89293	PASS
365	198	1	100	3.1	11054	PASS
441	442	0.01	24	16.2	46221	PASS
442	198	50	100	79.3	286059	PASS
443	442	15	24	18.6	53192	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune2.D
Acq On : 2 Sep 2023 8:54 pm
Operator : SV106:ljg
Sample : Tune2
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 03 14:44:47 2023
Quant Method : I:\8270\SV106\230902lviical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 23 13:06:27 2023
Response via : Initial Calibration





CHROMtools™ [Tune2]

(6) DDT (T)

13.080min (-0.306) 166.16

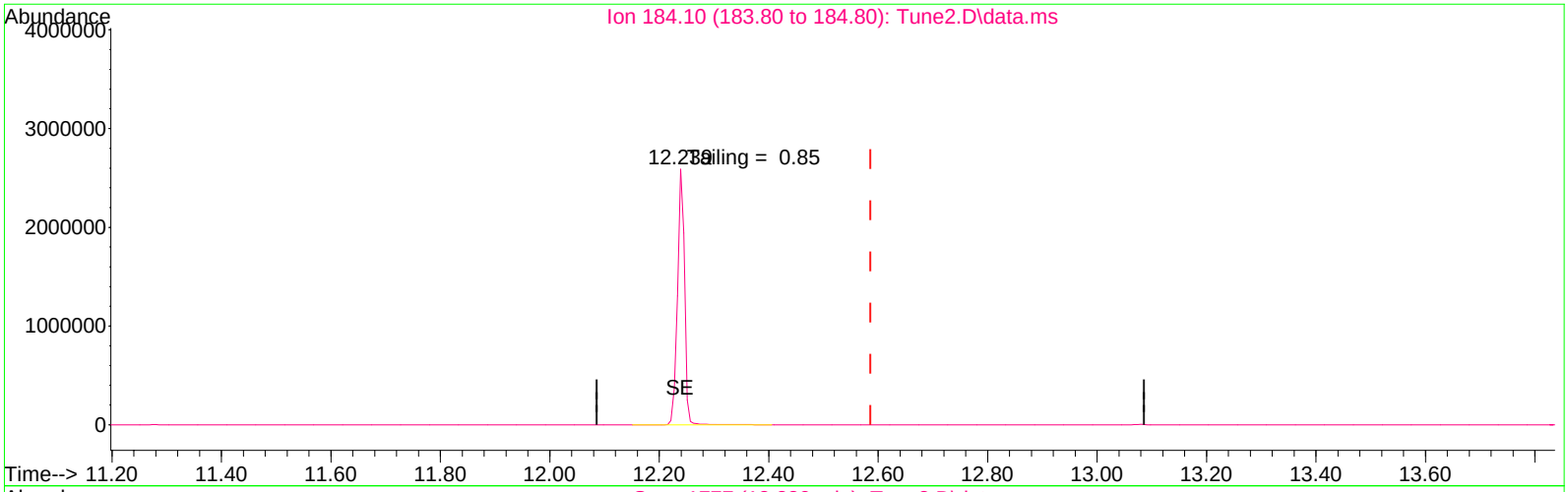
response 1012841

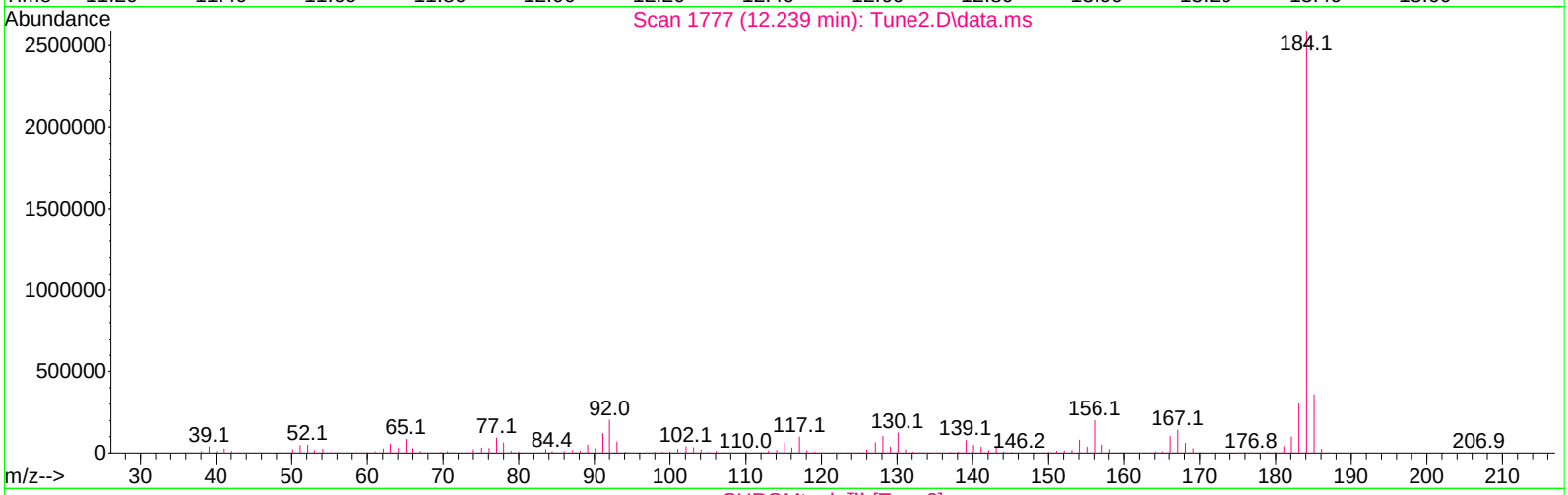
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.00	63.71
165.10	54.80	52.99
199.10	16.50	15.43

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune2.D
Acq On : 2 Sep 2023 8:54 pm
Operator : SV106:ljg
Sample : Tune2
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 03 14:44:47 2023
Quant Method : I:\8270\SV106\230902lviical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 23 13:06:27 2023
Response via : Initial Calibration





CHROMtools™ [Tune2]

(3) Benzidine (T)

12.239min (-0.347) 229.25

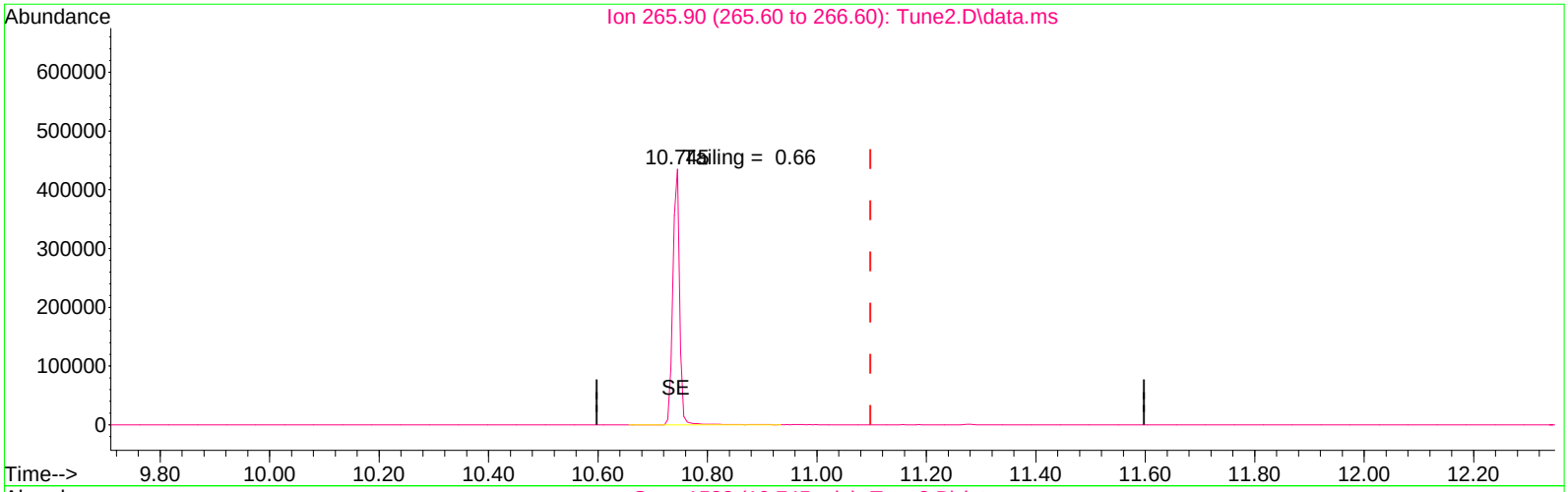
response 2333766

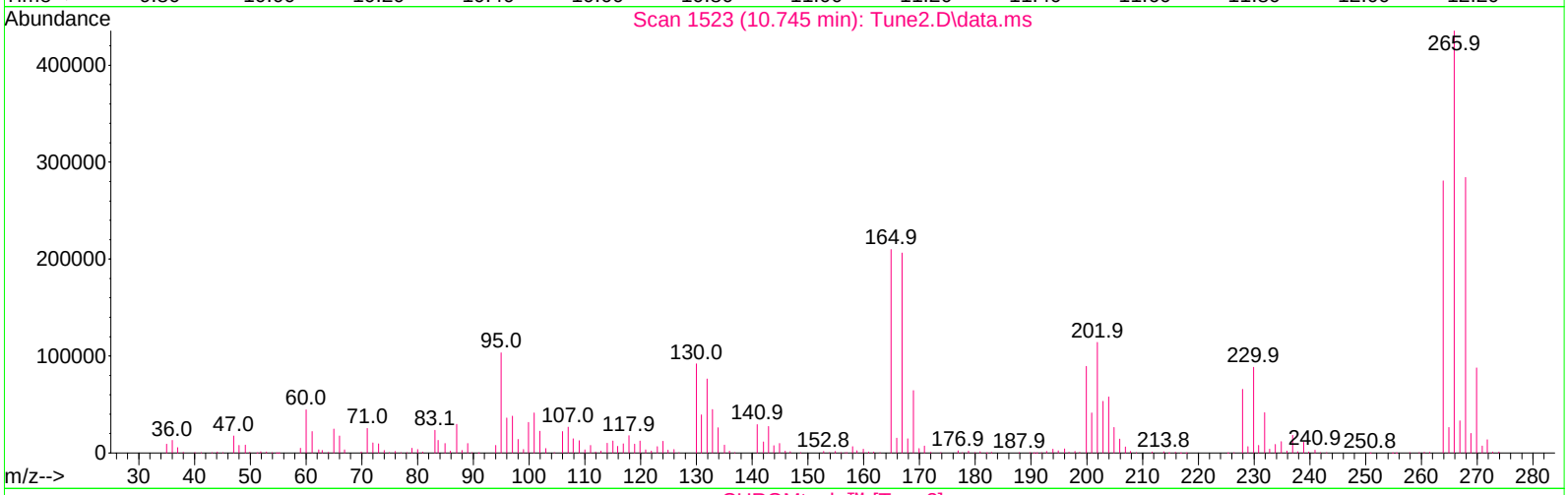
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\230902lviical\
Data File : Tune2.D
Acq On : 2 Sep 2023 8:54 pm
Operator : SV106:ljg
Sample : Tune2
Misc : WG1823680,,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Sep 03 14:44:47 2023
Quant Method : I:\8270\SV106\230902lviical\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Aug 23 13:06:27 2023
Response via : Initial Calibration





CHROMtools™ [Tune2]

(1) Pentachlorophenol (T)

10.745min (-0.353) 177.76

response 373352

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL10.D
Acq On : 2 Sep 2023 9:18 pm
Operator : SV106:ljg
Sample : IL1,32,,ADPL50 Lot# 10079
Misc : WG1823680,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 05 11:15:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:43 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	44178	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	97.55%		
85) IS3_Acenaphthene-d10	9.475	164	93077	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	101.91%		
99) IS3_Phenanthrene-d10	10.904	188	182189	4.000	ug/ml	# 0.00
Standard Area 1 = 180632			Recovery =	100.86%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	752648	50.588	ug/ml#	45
86) Atrazine	10.698	200	432139	53.882	ug/ml	93
100) n-Octadecane	10.898	57	1100463	52.552	ug/ml#	1
101) Parathion	11.698	109	274170	64.113	ug/ml#	91
102) 3,3'-Dimethylbenzidine	12.969	212	1777191	51.657	ug/ml	99

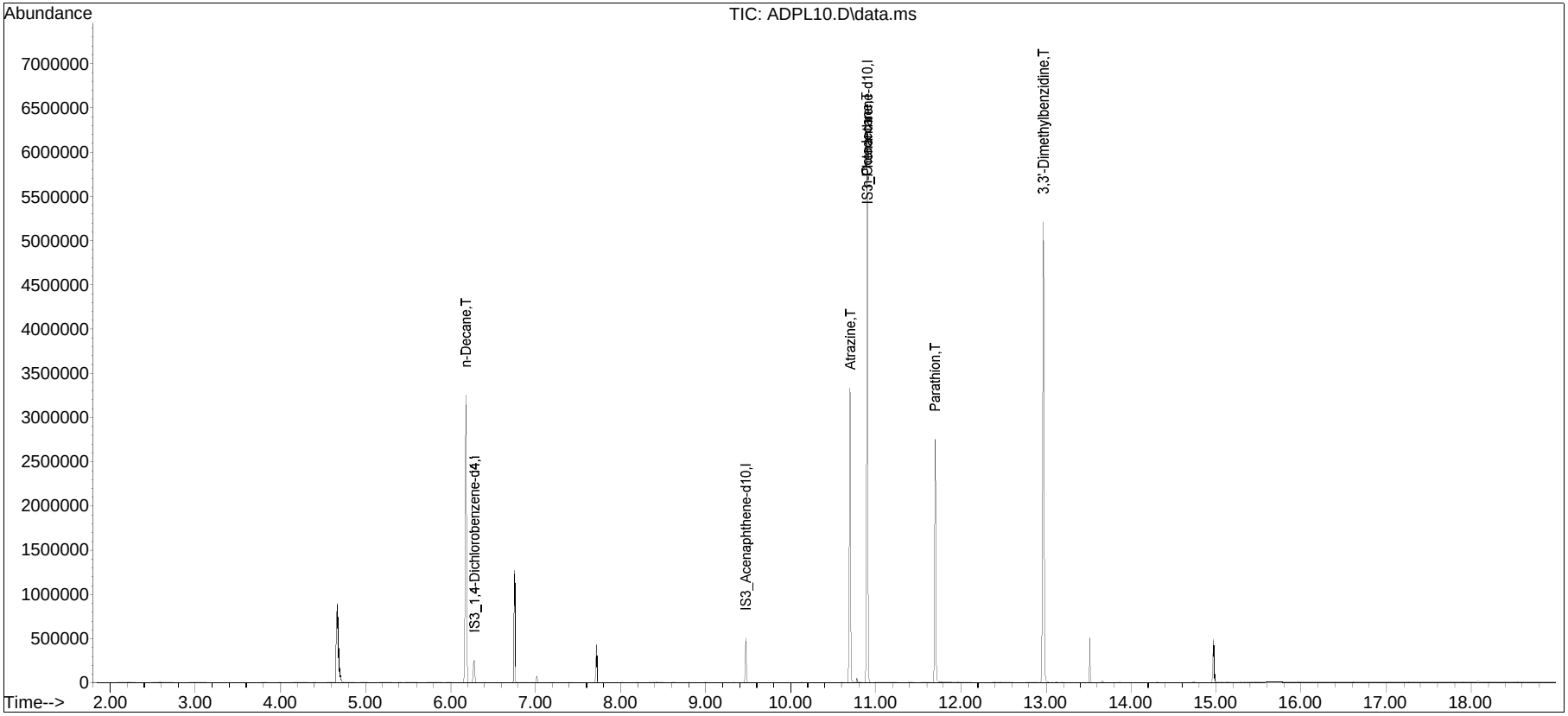
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL10.D
Acq On : 2 Sep 2023 9:18 pm
Operator : SV106:ljg
Sample : IL1,32,,ADPL50 Lot# 10079
Misc : WG1823680,,ical
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 05 11:15:51 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:43 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL10.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 9:18 pm	Instrument	: SV 106
Sample	: IL1,32,,ADPL50 Lot# 10079	Quant Date	: 9/5/2023 11:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL9.D
Acq On : 2 Sep 2023 9:42 pm
Operator : SV106:ljg
Sample : IL2,32,,ADPL35 Lot# 10089
Misc : WG1823680,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 05 11:17:08 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:00 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	44516	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	98.29%		
85) IS3_Acenaphthene-d10	9.475	164	91267	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	99.93%		
99) IS3_Phenanthrene-d10	10.904	188	186854	4.000	ug/ml	# 0.00
Standard Area 1 = 180632			Recovery =	103.44%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	513347	34.242	ug/ml#	45
86) Atrazine	10.692	200	298706	37.983	ug/ml	93
100) n-Octadecane	10.898	57	761864	35.474	ug/ml#	1
101) Parathion	11.698	109	182830	41.687	ug/ml#	91
102) 3,3'-Dimethylbenzidine	12.968	212	1216157	34.698	ug/ml	99

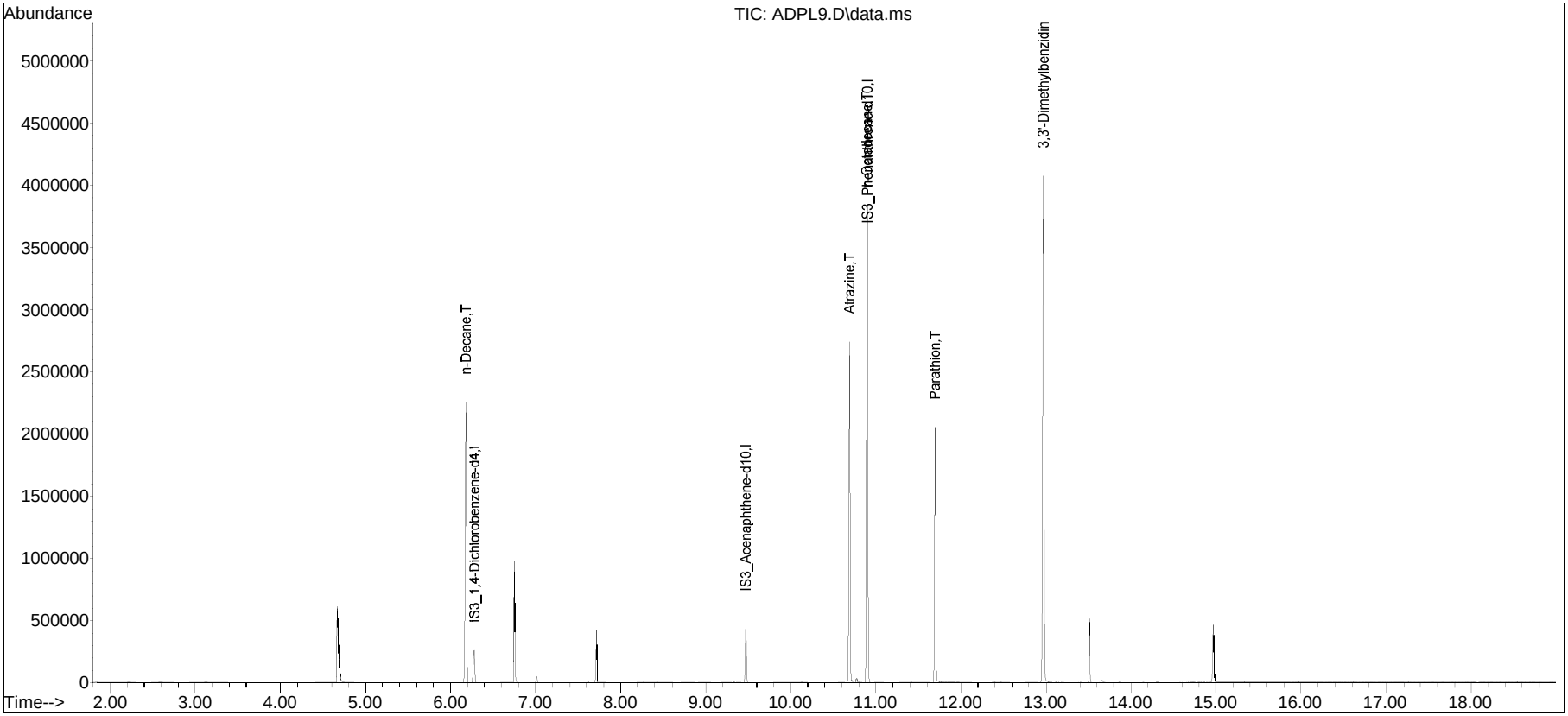
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL9.D
Acq On : 2 Sep 2023 9:42 pm
Operator : SV106:ljg
Sample : IL2,32,,ADPL35 Lot# 10089
Misc : WG1823680,,ical
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 05 11:17:08 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:17:00 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL9.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 9:42 pm	Instrument	: SV 106
Sample	: IL2,32,,ADPL35 Lot# 10089	Quant Date	: 9/5/2023 11:17 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL8.D
Acq On : 2 Sep 2023 10:05 pm
Operator : SV106:ljg
Sample : IL3,32,,ADPL15 Lot# 10090
Misc : WG1823680,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 05 11:16:58 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:50 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	44182	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery = 97.56%			
85) IS3_Acenaphthene-d10	9.475	164	92814	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery = 101.62%			
99) IS3_Phenanthrene-d10	10.904	188	178276	4.000	ug/ml	# 0.00
Standard Area 1 = 180632			Recovery = 98.70%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	221691	14.899	ug/ml	# 45
86) Atrazine	10.692	200	119695	14.967	ug/ml	94
100) n-Octadecane	10.898	57	313713	15.310	ug/ml	# 1
101) Parathion	11.698	109	67318	16.088	ug/ml	# 92
102) 3,3'-Dimethylbenzidine	12.969	212	479316	14.741	ug/ml	99

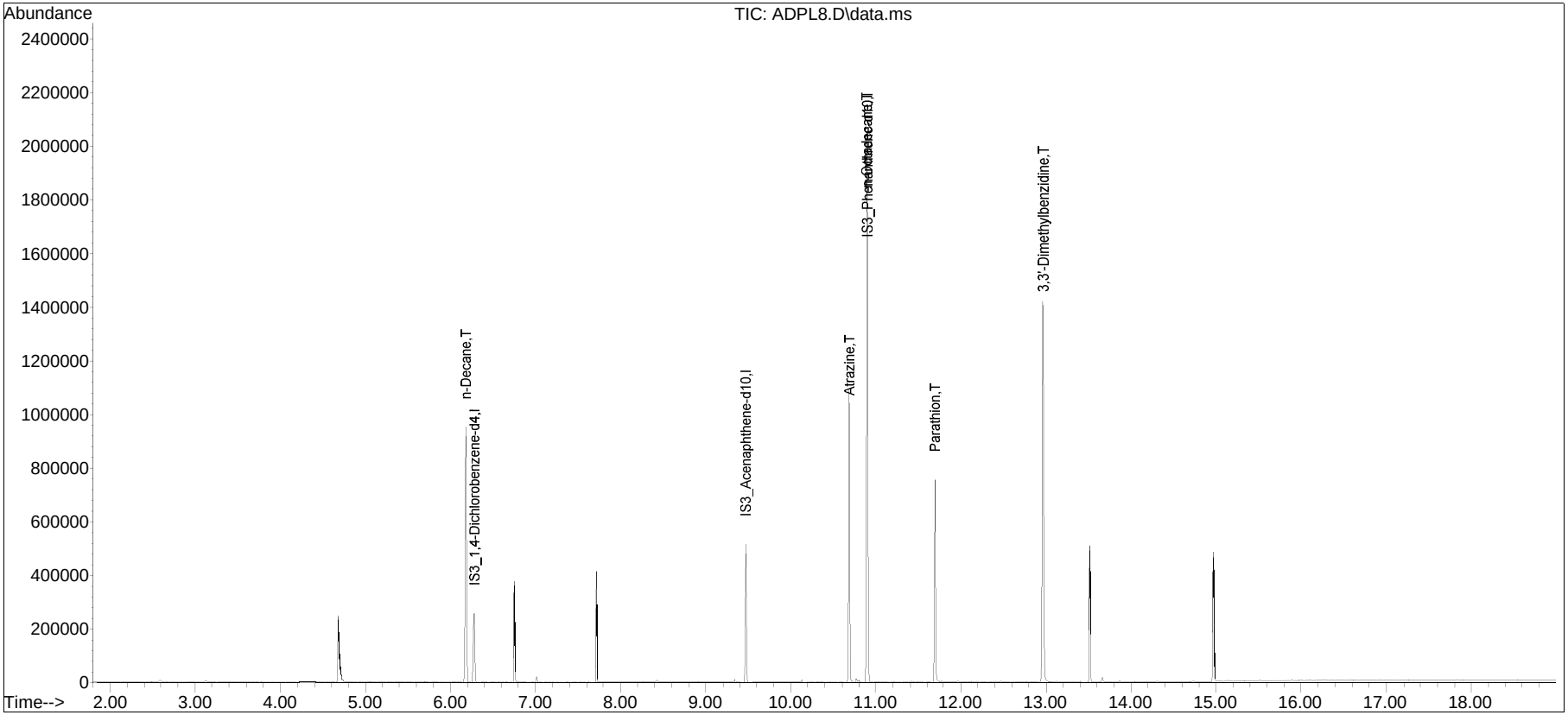
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL8.D
Acq On : 2 Sep 2023 10:05 pm
Operator : SV106:ljg
Sample : IL3,32,,ADPL15 Lot# 10090
Misc : WG1823680,,ical
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 05 11:16:58 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:50 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL8.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 10:05 pm	Instrument	: SV 106
Sample	: IL3,32,,ADPL15 Lot# 10090	Quant Date	: 9/5/2023 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL7.D
Acq On : 2 Sep 2023 10:29 pm
Operator : SV106:ljg
Sample : IL4,32,,ADPL10 Lot# 10091
Misc : WG1823680,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 05 11:16:47 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:40 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	45363	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	100.16%		
85) IS3_Acenaphthene-d10	9.475	164	95670	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	104.75%		
99) IS3_Phenanthrene-d10	10.904	188	190020	4.000	ug/ml	# 0.00
Standard Area 1 = 180632			Recovery =	105.20%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	149227	9.768	ug/ml#	45
86) Atrazine	10.686	200	82035	9.951	ug/ml	93
100) n-Octadecane	10.898	57	216661	9.920	ug/ml#	1
101) Parathion	11.698	109	44256	9.923	ug/ml#	91
102) 3,3'-Dimethylbenzidine	12.963	212	312930	9.299	ug/ml	99

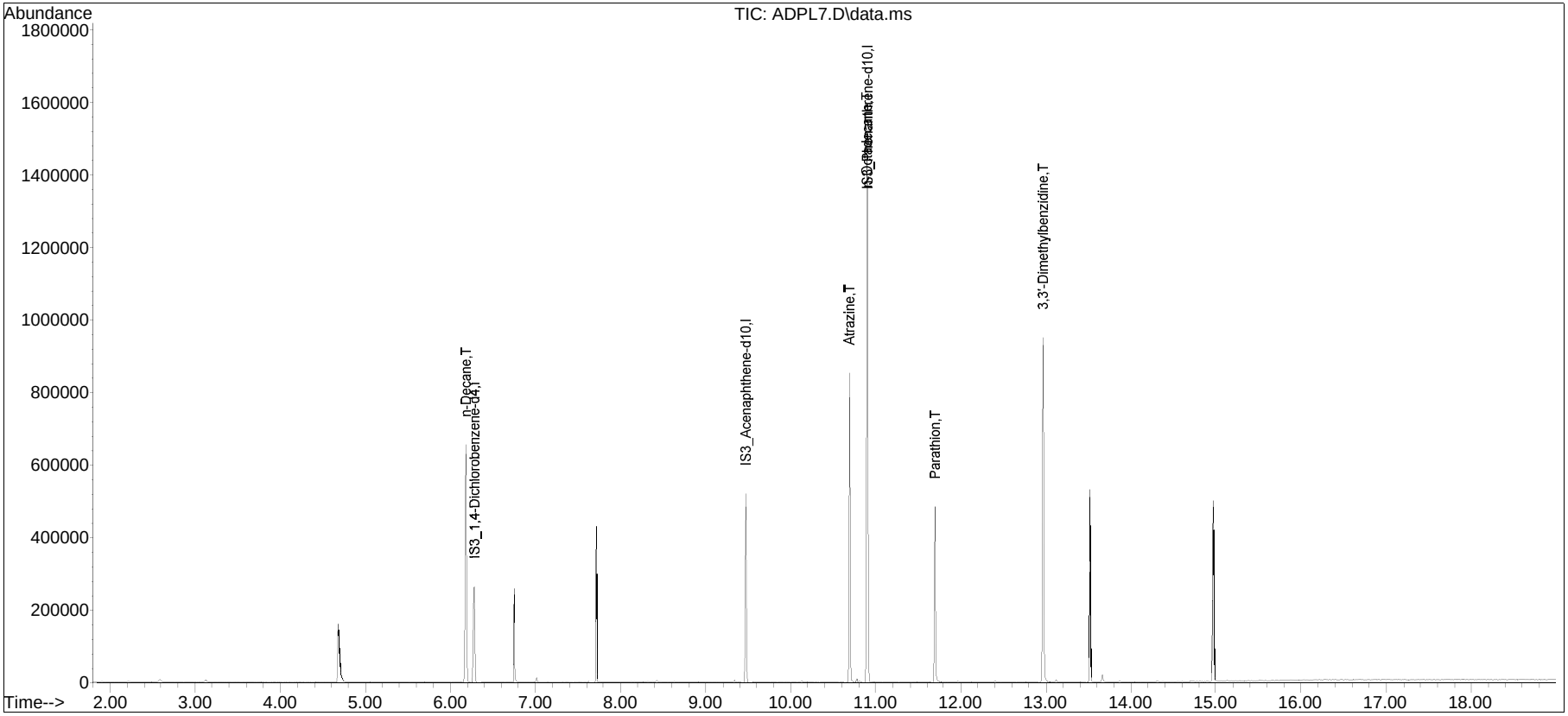
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL7.D
Acq On : 2 Sep 2023 10:29 pm
Operator : SV106:ljg
Sample : IL4,32,,ADPL10 Lot# 10091
Misc : WG1823680,,ical
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 05 11:16:47 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:40 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL7.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 10:29 pm	Instrument	: SV 106
Sample	: IL4,32,,ADPL10 Lot# 10091	Quant Date	: 9/5/2023 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL6.D
Acq On : 2 Sep 2023 10:53 pm
Operator : SV106:ljg
Sample : IL5,32,,ADPL5 Lot# 10092
Misc : WG1823680,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 05 11:16:38 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:31 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	45289	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	100.00%		
85) IS3_Acenaphthene-d10	9.475	164	91334	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	100.00%		
99) IS3_Phenanthrene-d10	10.904	188	180632	4.000	ug/ml	0.00
Standard Area 1 = 180632			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	75644	4.960	ug/ml#	44
86) Atrazine	10.686	200	38986	4.954	ug/ml	92
100) n-Octadecane	10.898	57	105370	5.075	ug/ml#	1
101) Parathion	11.698	109	19294	4.551	ug/ml#	87
102) 3,3'-Dimethylbenzidine	12.963	212	134158	4.575	ug/ml	99

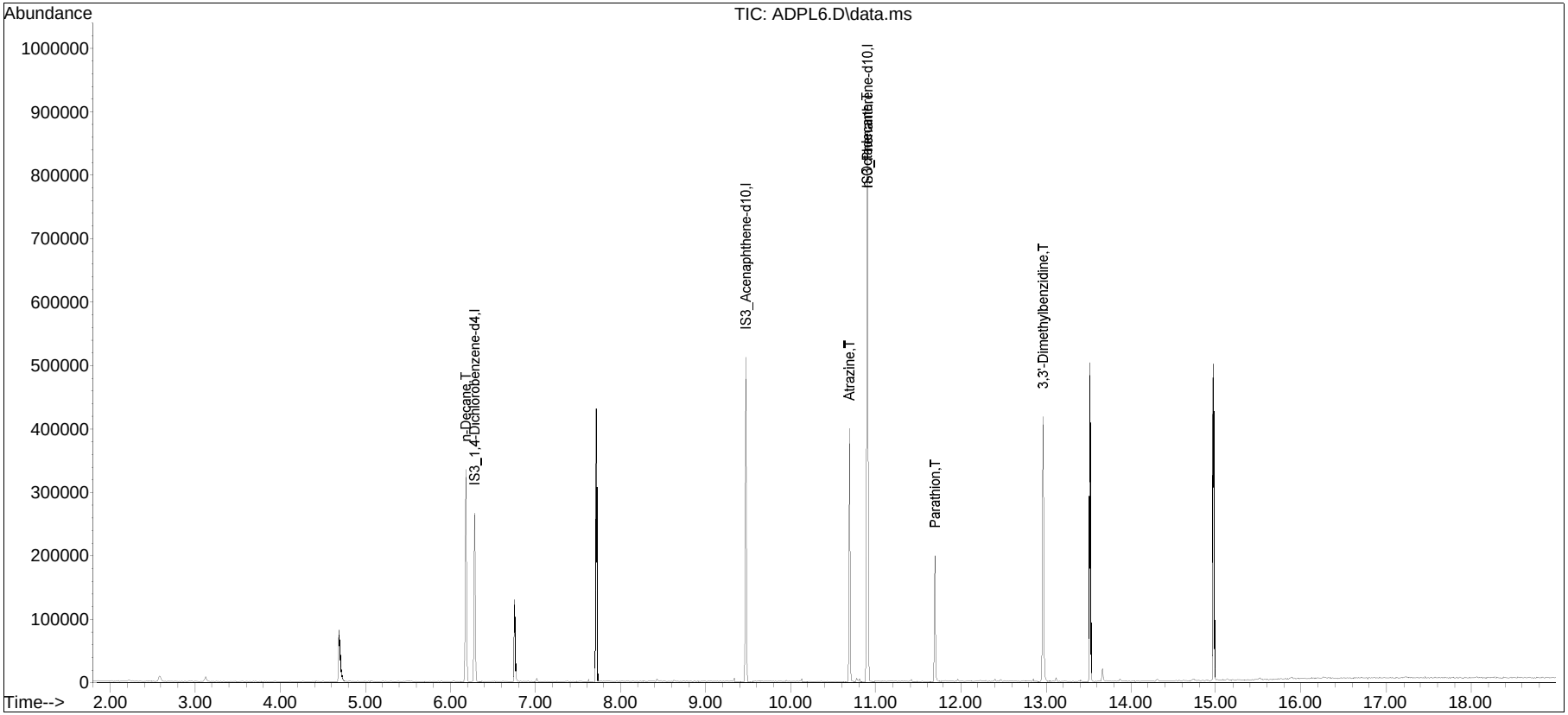
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL6.D
Acq On : 2 Sep 2023 10:53 pm
Operator : SV106:ljg
Sample : IL5,32,,ADPL5 Lot# 10092
Misc : WG1823680,,ical
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 05 11:16:38 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:31 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL6.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 10:53 pm	Instrument	: SV 106
Sample	: IL5,32,,ADPL5 Lot# 10092	Quant Date	: 9/5/2023 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL5.D
Acq On : 2 Sep 2023 11:17 pm
Operator : SV106:ljg
Sample : IL6,32,,ADPL3 Lot# 10093
Misc : WG1823680,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 05 11:16:29 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:22 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	45928	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	101.41%		
85) IS3_Acenaphthene-d10	9.475	164	94608	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	103.58%		
99) IS3_Phenanthrene-d10	10.904	188	186857	4.000	ug/ml	# 0.00
Standard Area 1 = 180632			Recovery =	103.45%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	46099	2.980	ug/ml	# 44
86) Atrazine	10.686	200	23187	2.844	ug/ml	90
100) n-Octadecane	10.898	57	64086	2.984	ug/ml	# 1
101) Parathion	11.698	109	11888	2.711	ug/ml	# 88
102) 3,3'-Dimethylbenzidine	12.963	212	75658	2.810	ug/ml	98

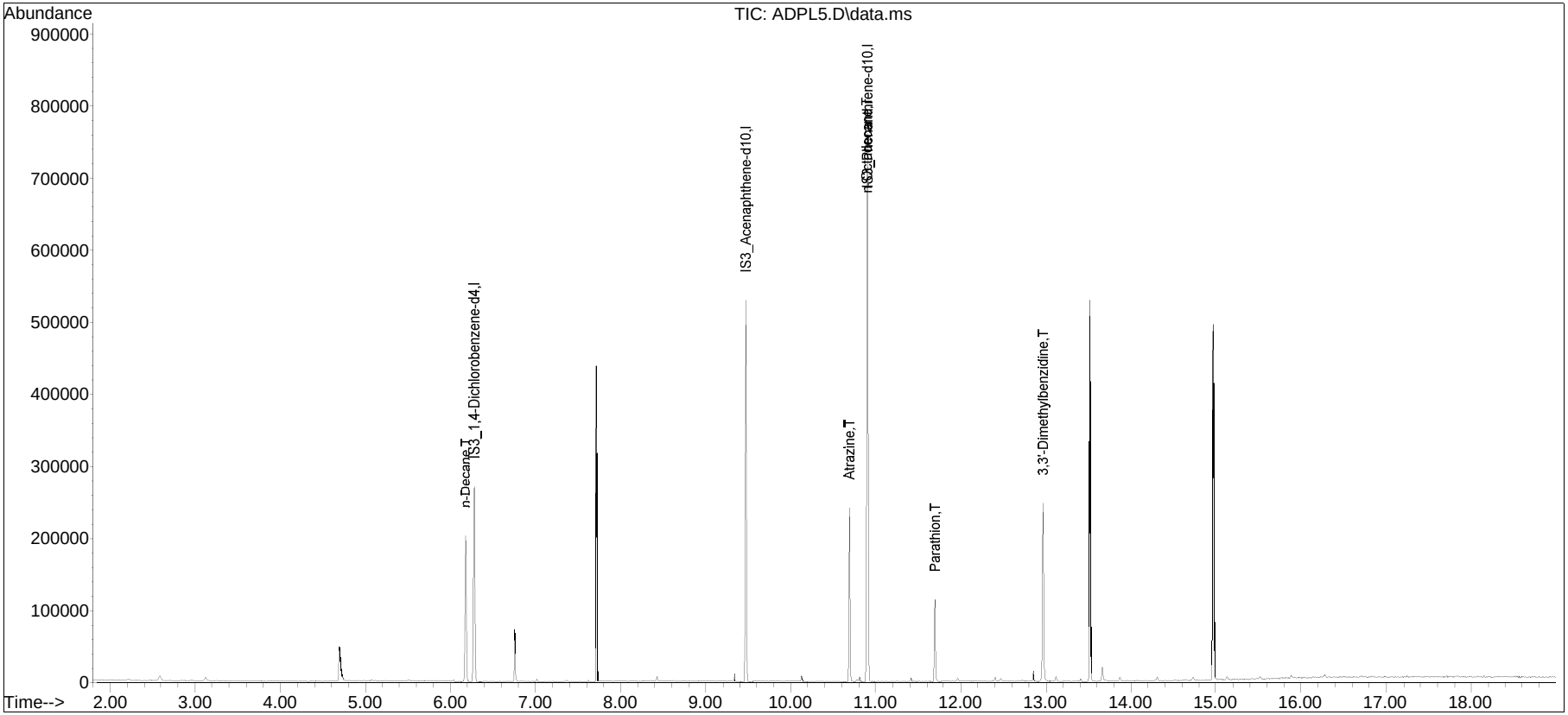
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL5.D
Acq On : 2 Sep 2023 11:17 pm
Operator : SV106:ljg
Sample : IL6,32,,ADPL3 Lot# 10093
Misc : WG1823680,,ical
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Sep 05 11:16:29 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:22 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL5.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 11:17 pm	Instrument	: SV 106
Sample	: IL6,32,,ADPL3 Lot# 10093	Quant Date	: 9/5/2023 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL4.D
Acq On : 2 Sep 2023 11:40 pm
Operator : SV106:ljg
Sample : IL7,32,,ADPL2 Lot# 10094
Misc : WG1823680,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 05 11:16:19 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:13 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	46329	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	102.30%		
85) IS3_Acenaphthene-d10	9.475	164	94241	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	103.18%		
99) IS3_Phenanthrene-d10	10.904	188	191370	4.000	ug/ml	# 0.00
Standard Area 1 = 180632			Recovery =	105.94%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	30285	1.941	ug/ml#	44
86) Atrazine	10.686	200	15030	1.851	ug/ml	96
100) n-Octadecane	10.898	57	40381	1.836	ug/ml#	1
101) Parathion	11.698	109	7445	1.657	ug/ml#	88
102) 3,3'-Dimethylbenzidine	12.963	212	48368	2.016	ug/ml	98

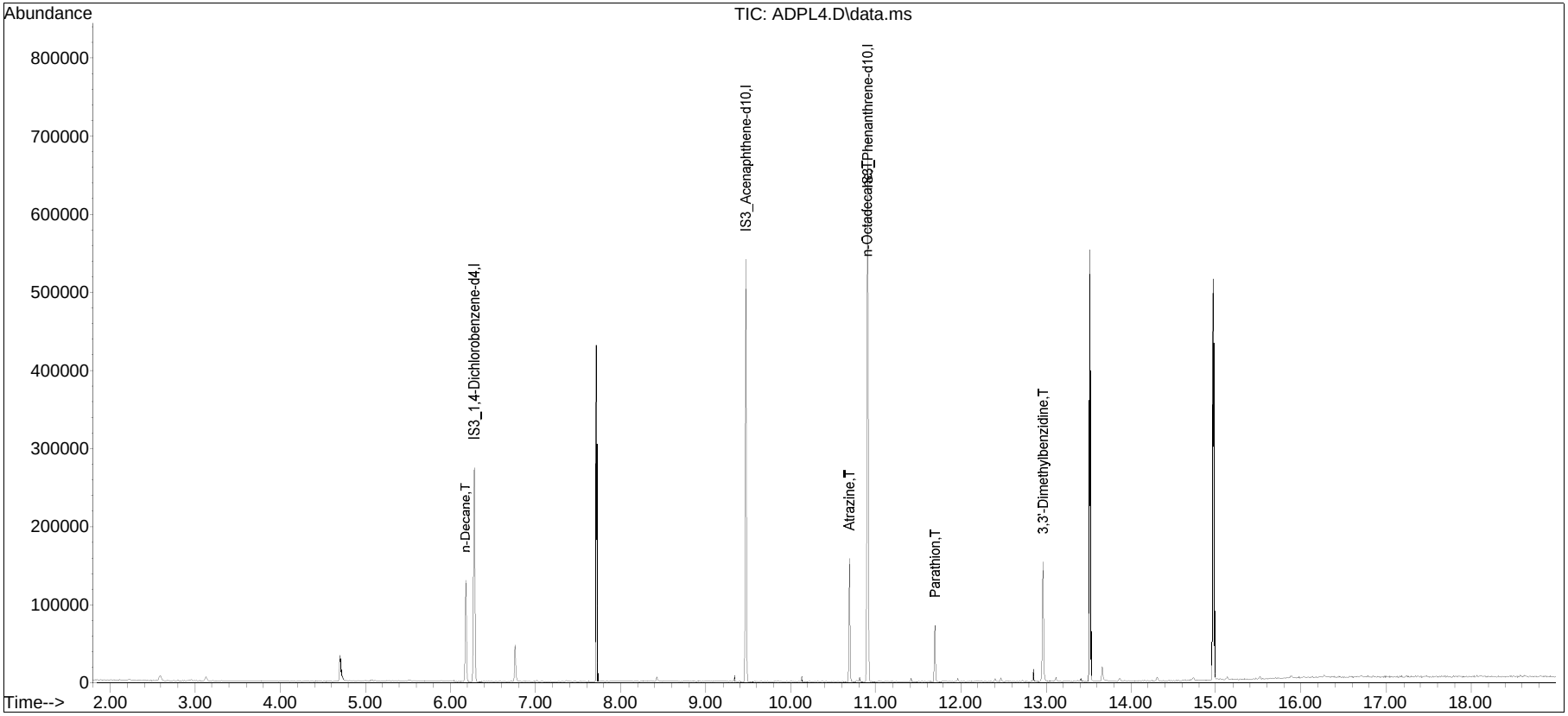
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL4.D
Acq On : 2 Sep 2023 11:40 pm
Operator : SV106:ljg
Sample : IL7,32,,ADPL2 Lot# 10094
Misc : WG1823680,,ical
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 05 11:16:19 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:13 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL4.D	Operator	: SV106:ljg
Date Inj'd	: 9/2/2023 11:40 pm	Instrument	: SV 106
Sample	: IL7,32,,ADPL2 Lot# 10094	Quant Date	: 9/5/2023 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL3.D
Acq On : 3 Sep 2023 12:04 am
Operator : SV106:ljg
Sample : IL8,32,,ADPL1 Lot# 10095
Misc : WG1823680,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 05 11:16:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:03 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	47341	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	104.53%		
85) IS3_Acenaphthene-d10	9.475	164	93544	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	102.42%		
99) IS3_Phenanthrene-d10	10.904	188	191607	4.000	ug/ml	0.00
Standard Area 1 = 180632			Recovery =	106.08%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	16304	1.023	ug/ml#	44
86) Atrazine	10.686	200	7705	0.956	ug/ml	92
100) n-Octadecane	10.898	57	21215	0.963	ug/ml#	1
101) Parathion	11.698	109	4036	0.897	ug/ml#	80
102) 3,3'-Dimethylbenzidine	12.963	212	18633	1.203	ug/ml	98

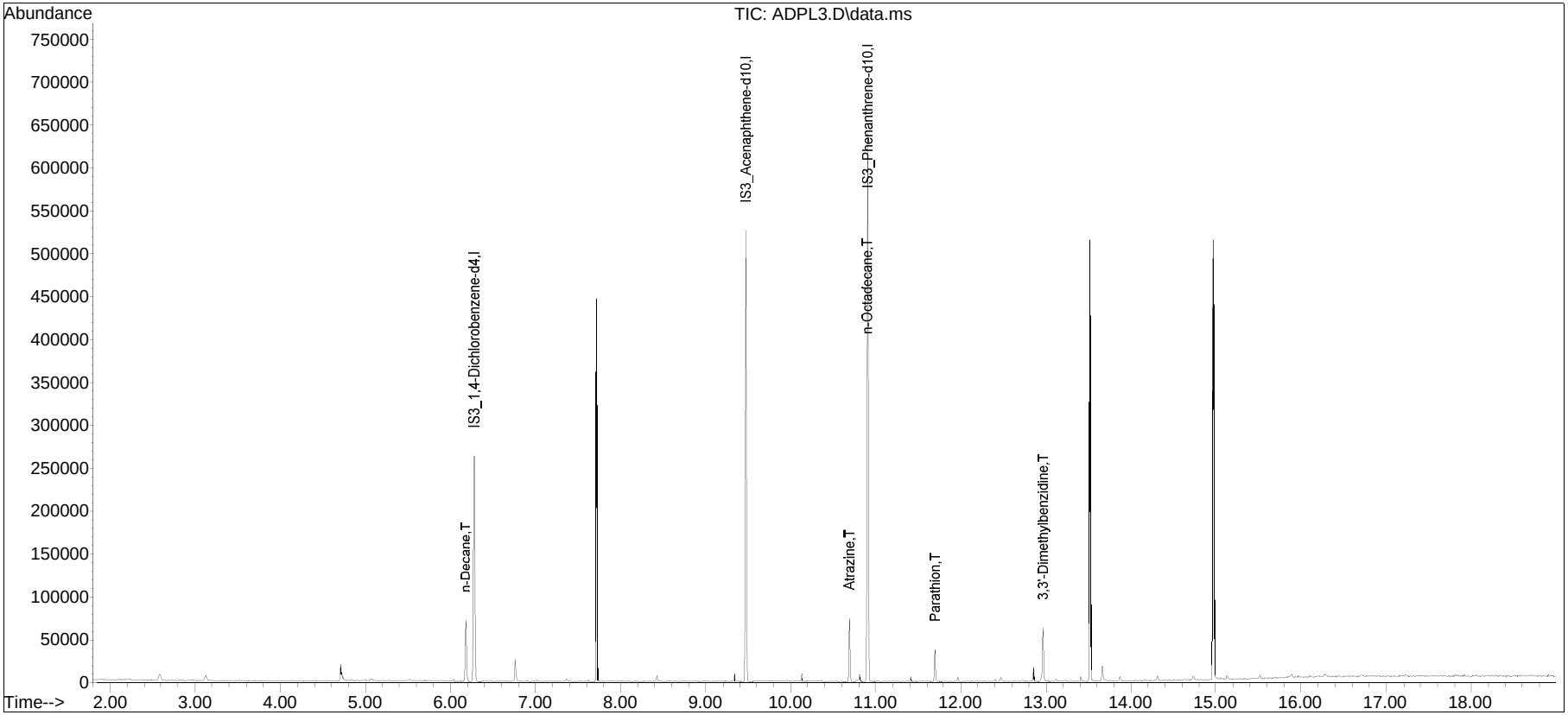
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL3.D
Acq On : 3 Sep 2023 12:04 am
Operator : SV106:ljg
Sample : IL8,32,,ADPL1 Lot# 10095
Misc : WG1823680,,ical
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 05 11:16:10 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:16:03 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL3.D	Operator	: SV106:ljg
Date Inj'd	: 9/3/2023 12:04 am	Instrument	: SV 106
Sample	: IL8,32,,ADPL1 Lot# 10095	Quant Date	: 9/5/2023 11:16 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL2.D
Acq On : 3 Sep 2023 12:28 am
Operator : SV106:ljg
Sample : IL9,32,,ADPL0.4 Lot# 10096
Misc : WG1823680,,ical
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 05 11:16:00 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:53 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	45582	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	100.65%		
85) IS3_Acenaphthene-d10	9.475	164	97797	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	107.08%		
99) IS3_Phenanthrene-d10	10.904	188	190089	4.000	ug/ml	# 0.00
Standard Area 1 = 180632			Recovery =	105.24%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	6484	0.422	ug/ml#	41
86) Atrazine	10.686	200	3408	0.404	ug/ml#	83
100) n-Octadecane	10.898	57	8858	0.405	ug/ml#	1
101) Parathion	11.692	109	1694	0.380	ug/ml#	86
102) 3,3'-Dimethylbenzidine	12.963	212	4267	0.812	ug/ml	96

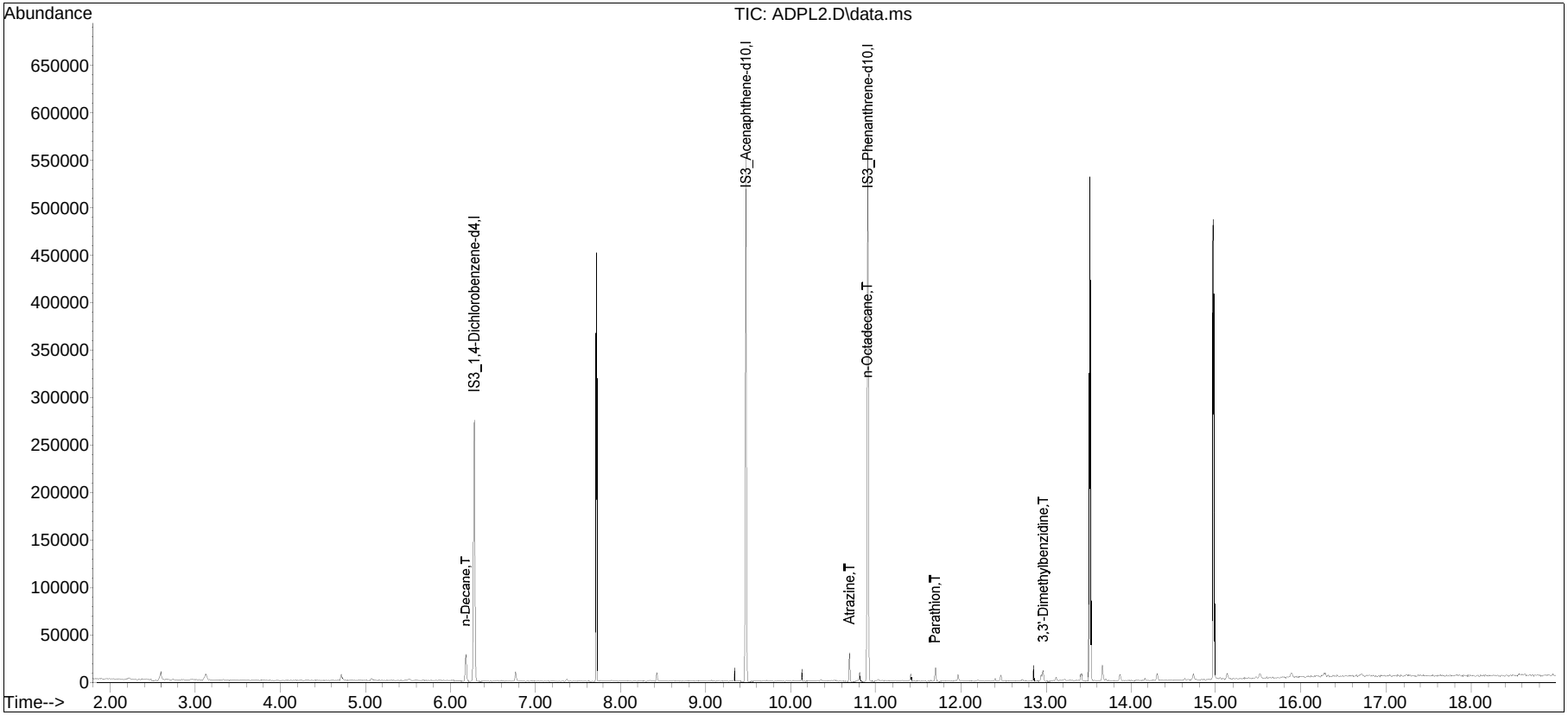
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL2.D
Acq On : 3 Sep 2023 12:28 am
Operator : SV106:ljg
Sample : IL9,32,,ADPL0.4 Lot# 10096
Misc : WG1823680,,ical
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 05 11:16:00 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:53 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL2.D	Operator	: SV106:ljg
Date Inj'd	: 9/3/2023 12:28 am	Instrument	: SV 106
Sample	: IL9,32,,ADPL0.4 Lot# 10096	Quant Date	: 9/5/2023 11:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL1.D
Acq On : 3 Sep 2023 12:52 am
Operator : SV106:ljg
Sample : IL10,32,,ADPL0.2 Lot# 10097
Misc : WG1823680,,ical
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 05 11:15:40 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:33 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.281	152	48149	4.000	ug/ml	0.00
Standard Area 1 = 45289			Recovery =	106.31%		
85) IS3_Acenaphthene-d10	9.475	164	90114	4.000	ug/ml	0.00
Standard Area 1 = 91334			Recovery =	98.66%		
99) IS3_Phenanthrene-d10	10.904	188	184126	4.000	ug/ml	# 0.00
Standard Area 1 = 180632			Recovery =	101.93%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.181	57	3260	0.201	ug/ml#	40
86) Atrazine	10.686	200	1573	0.203	ug/ml#	77
100) n-Octadecane	10.898	57	4310	0.204	ug/ml#	1
101) Parathion	11.692	109	841	0.195	ug/ml#	68
102) 3,3'-Dimethylbenzidine	12.957	212	638	0.713	ug/ml#	62

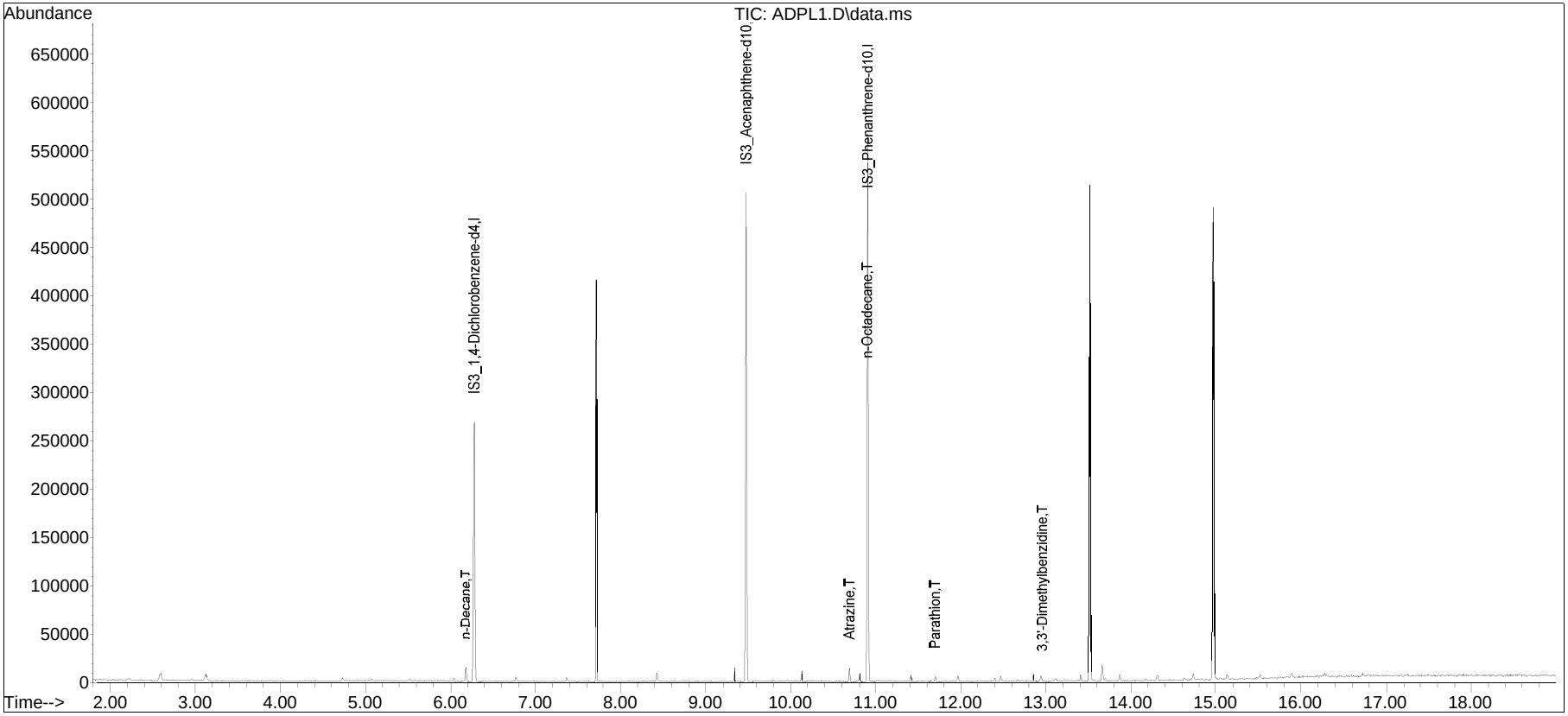
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPL1.D
Acq On : 3 Sep 2023 12:52 am
Operator : SV106:ljg
Sample : IL10,32,,ADPL0.2 Lot# 10097
Misc : WG1823680,,ical
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 05 11:15:40 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:33 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPL1.D	Operator	: SV106:ljg
Date Inj'd	: 9/3/2023 12:52 am	Instrument	: SV 106
Sample	: IL10,32,,ADPL0.2 Lot# 1009	Quant Date	: 9/5/2023 11:15 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPICV.D
Acq On : 3 Sep 2023 1:15 am
Operator : SV106:ljg
Sample : CQICV3,32,,ADPICV Lot# 10099
Misc : WG1823680,,ical
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 05 11:15:31 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:23 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	90	0.00
33	T	n-Decane		1.347	1.461	-8.5	99	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	92	0.00
86	T	Atrazine		0.345	0.376	-9.0	101	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	93	0.00
100	T	n-Octadecane		0.460	0.508	-10.4	101	0.00
101	T	Parathion		0.094	0.092	2.1	100	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	4.910	1.8	101	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPICV.D
Acq On : 3 Sep 2023 1:15 am
Operator : SV106:ljg
Sample : CQICV3,32,,ADPICV Lot# 10099
Misc : WG1823680,,ical
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 05 11:15:31 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:23 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV106\230902lviical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
32) IS3_1,4-Dichlorobenzen...	6.281	152	40906	4.000	ug/ml		0.00
Standard Area 1 = 45289			Recovery = 90.32%				
85) IS3_Acenaphthene-d10	9.475	164	83699	4.000	ug/ml		0.00
Standard Area 1 = 91334			Recovery = 91.64%				
99) IS3_Phenanthrene-d10	10.904	188	168291	4.000	ug/ml	#	0.00
Standard Area 1 = 180632			Recovery = 93.17%				
System Monitoring Compounds							
Target Compounds							Qvalue
33) n-Decane	6.181	57	74725	5.424	ug/ml	#	44
86) Atrazine	10.686	200	39360	5.458	ug/ml		92
100) n-Octadecane	10.898	57	106826	5.523	ug/ml	#	1
101) Parathion	11.698	109	19365	4.902	ug/ml	#	87
102) 3,3'-Dimethylbenzidine	12.963	212	135784	4.910	ug/ml		98

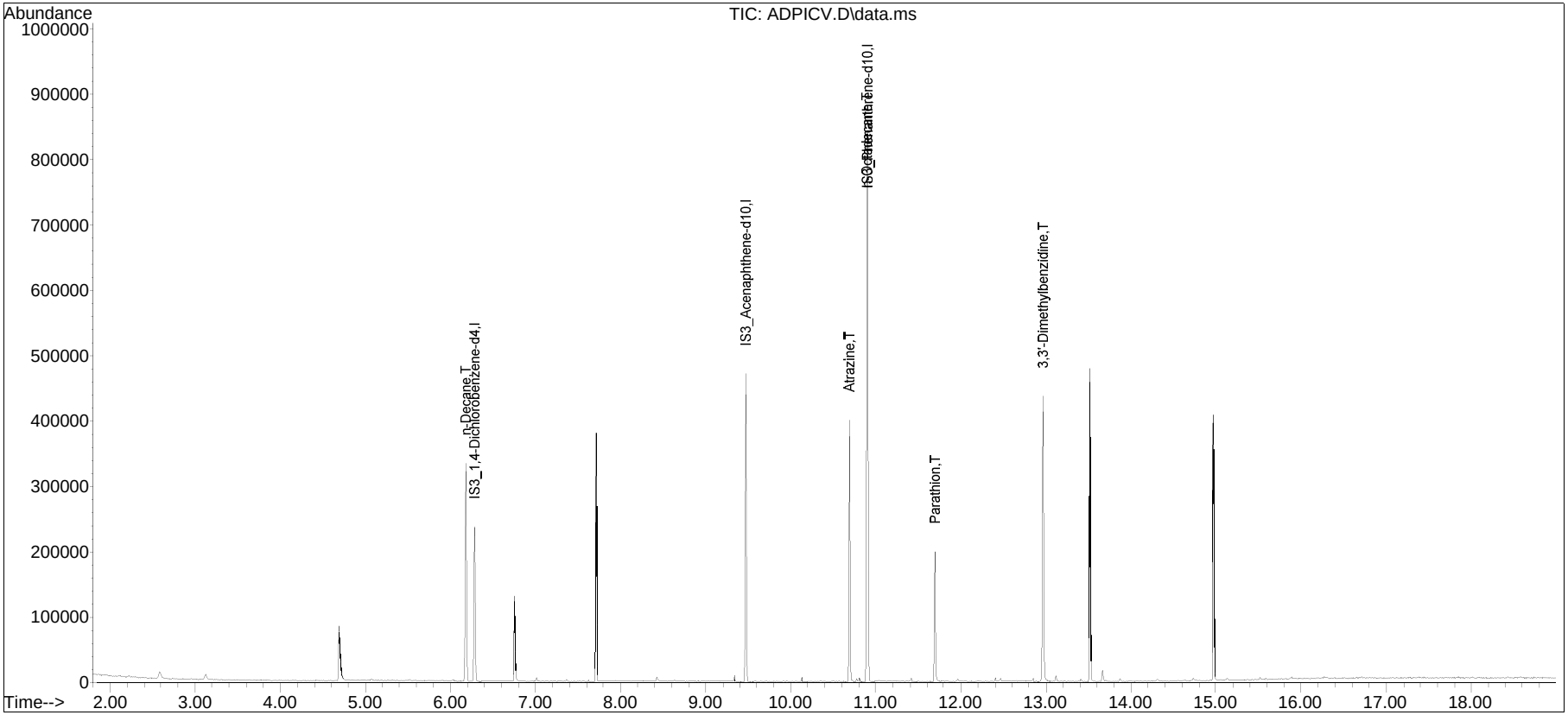
(#) = qualifier out of range (m) = manual integration (+) = signals summed

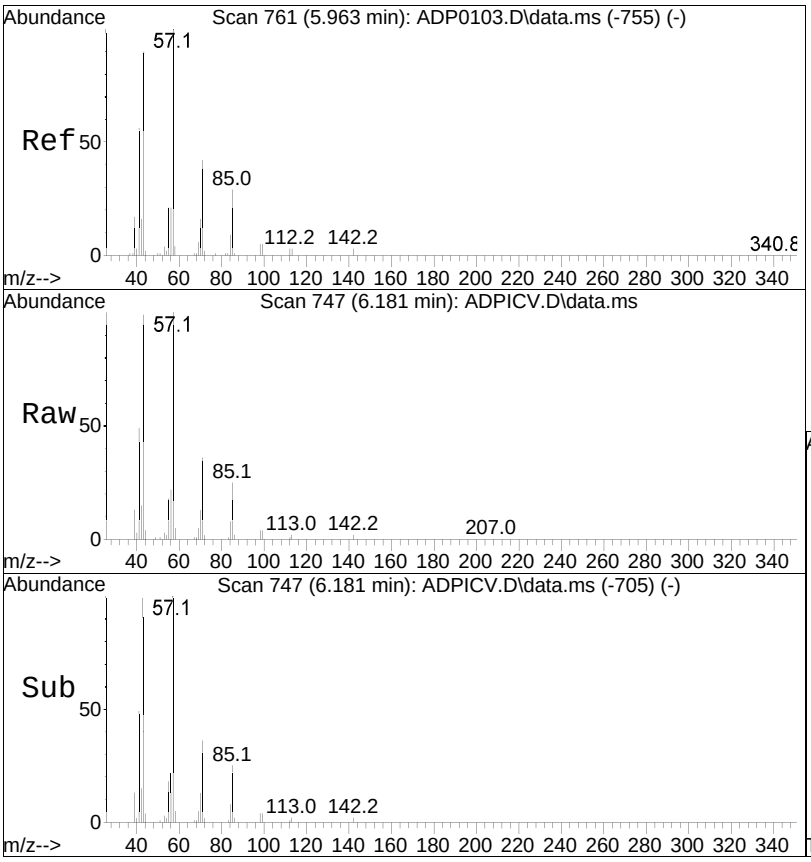
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\230902lviical\
Data File : ADPICV.D
Acq On : 3 Sep 2023 1:15 am
Operator : SV106:ljg
Sample : CQICV3,32,,ADPICV Lot# 10099
Misc : WG1823680,,ical
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 05 11:15:31 2023
Quant Method : I:\8270\SV106\230902lviical\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:15:23 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistiical\ADPL6.D•

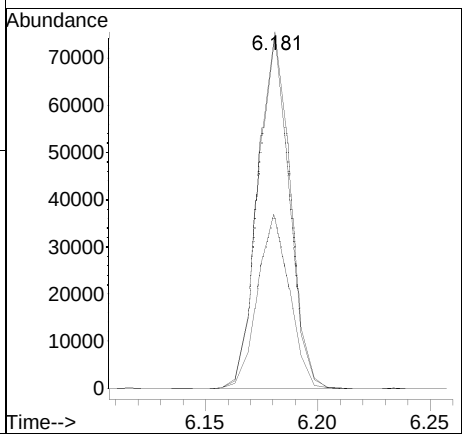


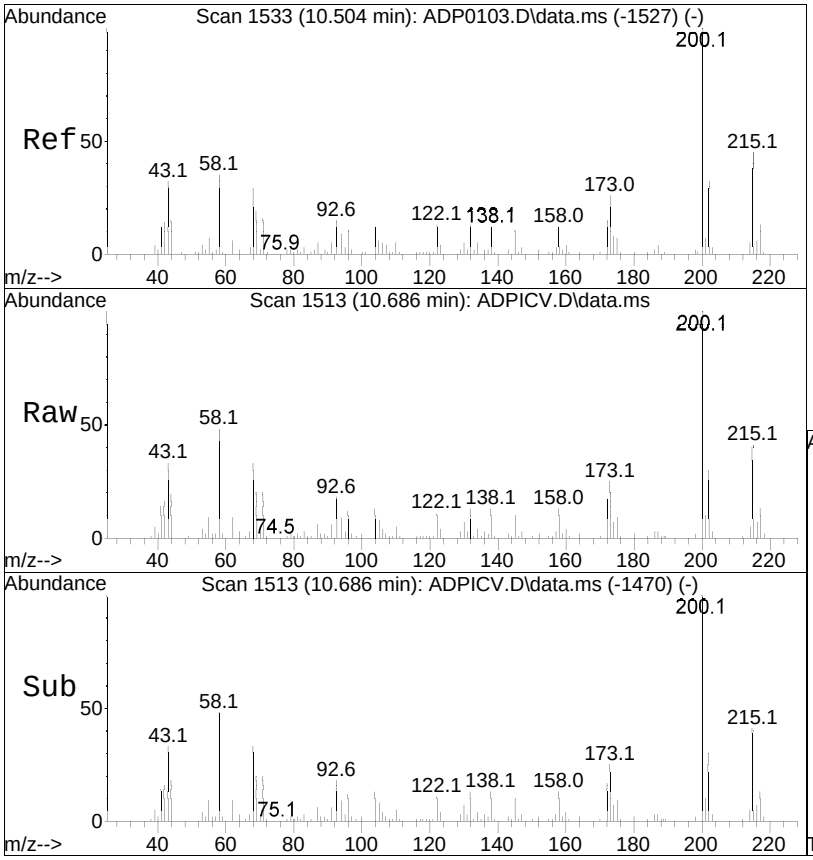


#33
n-Decane
Concen: 5.42 ug/ml
RT: 6.181 min Scan# 747
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Sep 2023 1:15 am

Tgt Ion: 57 Resp: 74725

Ion	Ratio	Lower	Upper
57	100		
43	96.2	0.2	0.2#
41	48.6	0.2	0.2#

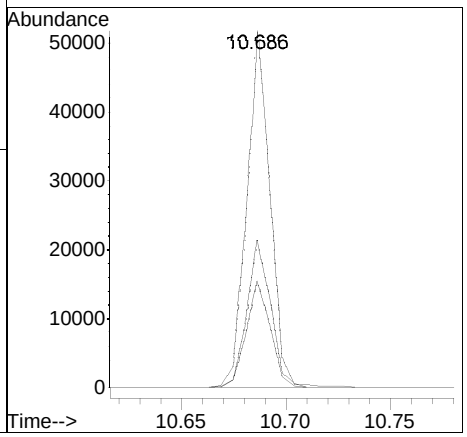


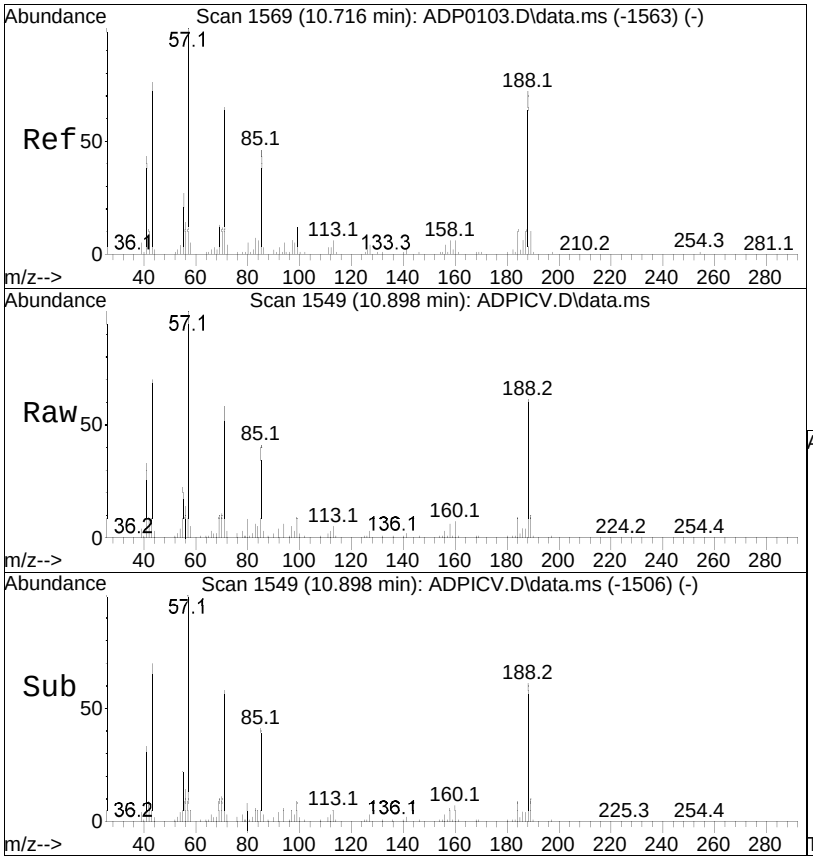


#86
Atrazine
Concen: 5.46 ug/ml
RT: 10.686 min Scan# 1513
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Sep 2023 1:15 am

Tgt Ion:200 Resp: 39360

Ion	Ratio	Lower	Upper
200	100		
202	31.1	25.8	38.6
215	42.4	40.2	60.4

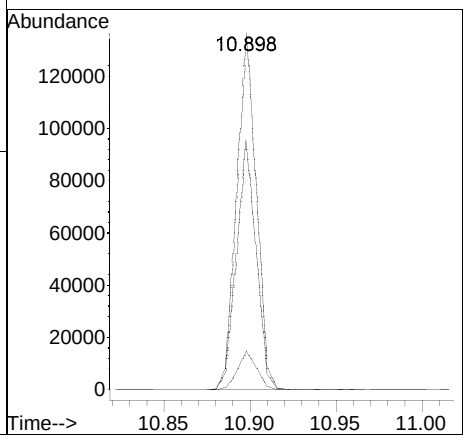


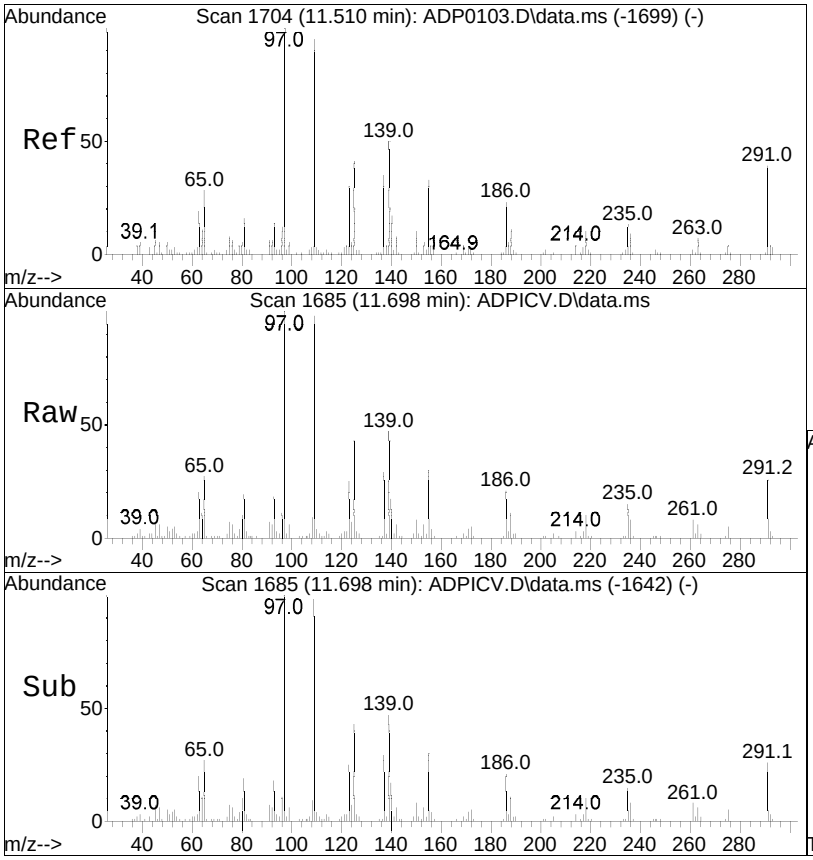


#100
n-Octadecane
Concen: 5.52 ug/ml
RT: 10.898 min Scan# 1549
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Sep 2023 1:15 am

Tgt Ion: 57 Resp: 106826

Ion	Ratio	Lower	Upper
57	100		
43	69.9	9.0	13.6#
70	10.7	0.2	0.2#

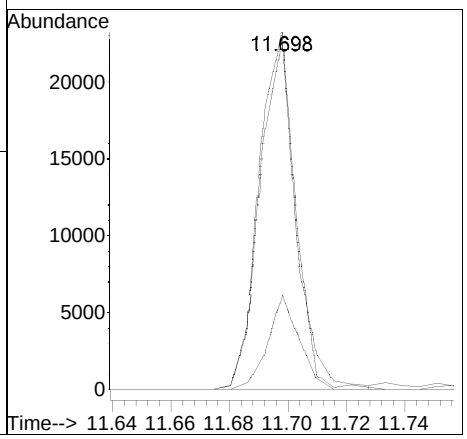


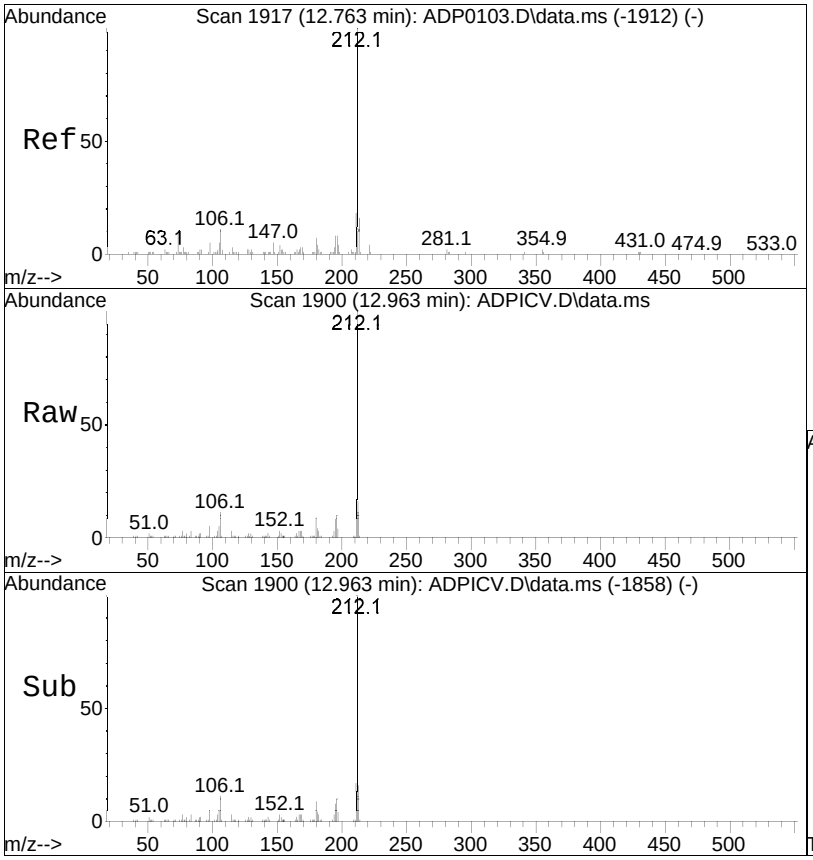


#101
Parathion
Concen: 4.90 ug/ml
RT: 11.698 min Scan# 1685
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 3 Sep 2023 1:15 am

Tgt Ion:109 Resp: 19365

Ion	Ratio	Lower	Upper
109	100		
97	102.7	87.4	131.2
291	23.6	34.2	51.2#

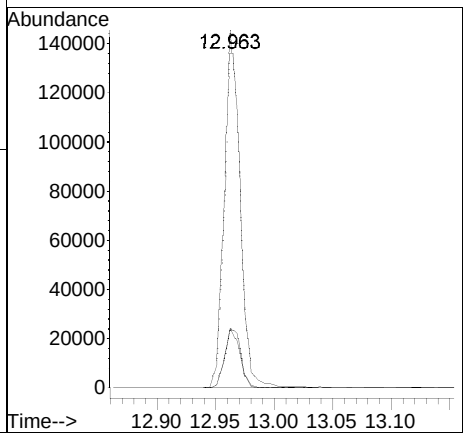




#102
3,3'-Dimethylbenzidine
Concen: 4.91 ug/ml
RT: 12.963 min Scan# 1900
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 3 Sep 2023 1:15 am

Tgt Ion:212 Resp: 135784

Ion	Ratio	Lower	Upper
212	100		
211	17.1	12.9	19.3
213	16.2	13.2	19.8



Manual Integration Report

Data Path	: I:\8270\SV106\230902lviica	QMethod	: FS230902SV106.m
Data File	: ADPICV.D	Operator	: SV106:ljg
Date Inj'd	: 9/3/2023 1:15 am	Instrument	: SV 106
Sample	: CQICV3,32,,ADPICV Lot# 100	Quant Date	: 9/5/2023 11:15 am

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

Evaluate Relative Error Report SV 106

Method Path : I:\8270\SV106\230902lviical\
Method File : FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 11:32:08 2023

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
36 T	Benzoic Acid	L	ug/ml	5.0	4.546	-9.1	3.00	3.294	9.8
47 T	2-Nitroaniline	L	ug/ml	5.0	4.282	-14.4	1.00	1.228	22.8
48 T	1,4-Dinitrobenzene	L	ug/ml	5.0	4.147	-17.1	2.00	2.363	18.1
49 T	1,3-Dinitrobenzene	L	ug/ml	5.0	4.386	-12.3	2.00	2.376	18.8
52 T	2,6-Dinitrotoluene	L	ug/ml	5.0	4.231	-15.4	1.00	1.173	17.3
65 T	2,4-Dinitrophenol	L	ug/ml	5.0	4.471	-10.6	2.00	2.281	14.1
67 T	2,4-Dinitrotoluene	L	ug/ml	5.0	4.273	-14.5	1.00	1.247	24.7
68 T	4-Nitrophenol	L	ug/ml	5.0	4.234	-15.3	1.00	1.225	22.5
75 T	4,6-Dinitro-o-cresol	L	ug/ml	5.0	4.206	-15.9	2.00	2.338	16.9
81 T	Pentachlorophenol	L	ug/ml	5.0	4.268	-14.6	1.00	1.213	21.3
83 T	Dichloran	L	ug/ml	5.0	6.135	22.7	2.00	2.280	14.0
84 T	Pentachloronitrobenzene	L	ug/ml	5.0	6.488	29.8	1.00	1.018	1.8
102 T	3,3'-Dimethylbenzidine	L	ug/ml	5.0	4.575	-8.5	1.00	1.203	20.3

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
36 T	Benzoic Acid	Linear	0.998169	0.000000	0.27548	-0.111375
47 T	2-Nitroaniline	Linear	0.997526	0.000000	0.203679	-0.023159
48 T	1,4-Dinitrobenzene	Linear	0.995811	0.000000	0.0939153	-0.0209123
49 T	1,3-Dinitrobenzene	Linear	0.996932	0.000000	0.110183	-0.0255947
52 T	2,6-Dinitrotoluene	Linear	0.997769	0.000000	0.163769	-0.0157845
65 T	2,4-Dinitrophenol	Linear	0.996488	0.000000	0.161957	-0.0454718
67 T	2,4-Dinitrotoluene	Linear	0.996859	0.000000	0.400144	-0.0474648
68 T	4-Nitrophenol	Linear	0.996297	0.000000	0.297605	-0.0327127
75 T	4,6-Dinitro-o-cresol	Linear	0.994623	0.000000	0.215119	-0.0628999
81 T	Pentachlorophenol	Linear	0.996515	0.000000	0.281246	-0.0315754
83 T	Dichloran	Linear	0.996757	0.000000	0.165763	-0.0413709
84 T	Pentachloronitrobenzene	Linear	0.997968	0.000000	0.179252	-0.0139776
102 T	3,3'-Dimethylbenzidine	Linear	0.997837	0.000000	0.765644	-0.133055

Response Factor Report SV107

Method Path : I:\8270\SV107\231025ical\
Method File : FS231025SV107.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Oct 28 17:08:03 2023
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =ABNL8a.D L9 =ABNL9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	t	N-Nitrosodimethylamine	0.608	0.629	0.736	0.751	0.720	0.682	0.785	0.809	0.757	0.805	0.728	9.57
3)	t	Pyridine	1.030	1.088	1.455	1.380	1.301	1.248	1.281	1.450	1.294	1.437	1.296	11.28
4)	S	2-Fluorophenol	0.887	0.903	1.048	1.073	1.069	1.057	1.159	1.208	1.163	1.231	1.080	10.82
5)	T	Aniline	1.511	1.548	1.793	1.794	1.807	1.756	1.936	1.946	1.911	2.014	1.802	9.19
6)	t	2-Chlorophenol	1.060	1.056	1.168	1.201	1.201	1.128	1.280	1.284	1.245	1.297	1.192	7.45
7)	S	Phenol-d6	1.287	1.127	1.330	1.325	1.326	1.303	1.453	1.496	1.435	1.514	1.360	8.59
8)	T	Phenol	1.245	1.277	1.420	1.487	1.445	1.401	1.584	1.589	1.538	1.594	1.458	8.61
9)	T	bis(2-Chloroethyl)ether	1.014	1.167	1.218	1.223	1.206	1.167	1.266	1.288	1.251	1.291	1.209	6.74
10)	T	1,3-Dichlorobenzene	1.316	1.423	1.454	1.529	1.438	1.335	1.483	1.465	1.456	1.477	1.438	4.56
11)	T	1,4-Dichlorobenzene	1.494	1.424	1.488	1.513	1.451	1.369	1.492	1.488	1.479	1.503	1.470	3.00
12)	T	1,2-Dichlorobenzene	1.389	1.419	1.413	1.442	1.308	1.320	1.412	1.408	1.410	1.459	1.398	3.46
13)	t	Benzyl alcohol	0.719	0.809	0.880	0.958	0.931	0.924	1.036	1.054	1.084	1.120	0.952	13.32
14)	T	bis(2-chloroisopropyl)ether	2.362	2.448	2.503	2.483	2.398	2.317	2.520	2.566	2.441	2.448	2.449	3.06
15)	T	2-Methylphenol	0.898	0.892	0.988	1.016	1.032	1.009	1.139	1.146	1.122	1.145	1.039	9.36
16)	T	Hexachloroethane	0.517	0.555	0.574	0.589	0.578	0.529	0.602	0.589	0.588	0.611	0.573	5.33
17)	T	n-Nitrosodi-n-propylamine		0.770	0.843	0.870	0.880	0.845	0.960	0.937	0.958	0.983	0.894	7.84
18)	T	3-Methylphenol/4-Methylphenol	0.990	0.989	1.040	1.087	1.111	1.071	1.218	1.232	1.199	1.238	1.118	8.75
19)	S	Nitrobenzene-d5	1.123	1.194	1.226	1.287	1.271	1.221	1.416	1.361	1.373	1.410	1.288	7.71
20)	T	Nitrobenzene	1.195	1.222	1.309	1.296	1.315	1.252	1.420	1.403	1.401	1.431	1.324	6.48
21)	T	Isophorone	2.170	2.019	2.145	2.228	2.217	2.226	2.554	2.526	2.555	2.584	2.322	9.01
22)	T	2-Nitrophenol				0.550	0.557	0.554	0.648	0.618	0.669	0.671	0.610	9.03
23)	T	2,4-Dimethylphenol		0.953	1.128	1.187	1.186	1.166	1.313	1.294	1.306	1.313	1.205	9.87
24)	T	bis(2-Chloroethoxy)methane		1.496	1.569	1.577	1.580	1.523	1.705	1.670	1.650	1.661	1.603	4.46
25)	T	2,4-Dichlorophenol		0.928	0.984	1.079	1.072	1.021	1.156	1.145	1.157	1.166	1.079	7.96
26)	T	1,2,4-Trichlorobenzene		1.255	1.298	1.308	1.244	1.146	1.301	1.271	1.295	1.284	1.267	3.96
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------											
28)	T	Benzaldehyde	0.697	0.794	0.841	0.982	0.912	0.985	1.010	1.013	1.023	1.033	0.929	12.38
29)	T	Acetophenone		1.574	1.440	1.691	1.589	1.710	1.843	1.775	1.796	1.826	1.694	8.00
30)	T	m-Toluidine		1.212	1.209	1.496	1.487	1.624	1.774	1.731	1.725	1.782	1.560	14.50
31)	T	2-Chloroaniline			1.268	1.440	1.368	1.527	1.576	1.565	1.572	1.571	1.486	7.82
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------											
33)	T	n-Decane	1.649	1.652	1.569	1.685	1.697	1.680	1.815	1.813	1.758	1.781	1.710	4.68
34)	I	IS1_Naphthalene-d8	----------ISTD----------											
35)	T	Naphthalene	1.002	0.963	1.037	1.017	1.009	0.963	1.005	1.011	1.005	1.031	1.004	2.44
36)	T	Benzoic Acid				0.130	0.152	0.170	0.220	0.212	0.256	0.267	*L	0.9957
37)	T	4-Chloroaniline	0.098	0.118	0.131	0.135	0.144	0.138	0.150	0.151	0.150	0.159	0.137	13.41
38)	T	Hexachlorobutadiene	0.187	0.220	0.210	0.199	0.190	0.190	0.199	0.189	0.200	0.206	0.199	5.32
39)	T	p-Chloro-m-cresol		0.216	0.249	0.269	0.270	0.264	0.303	0.298	0.311	0.330	0.279	12.63
40)	T	2-Methylnaphthalene	0.606	0.637	0.660	0.665	0.673	0.654	0.705	0.671	0.680	0.726	0.668	5.00
41)	T	1-Methylnaphthalene	0.246	0.211	0.225	0.238	0.236	0.227	0.245	0.240	0.240	0.257	0.236	5.40
42)	T	Hexachlorocyclopentadiene				0.197	0.206	0.218	0.212	0.239	0.216	0.244	0.250	0.223	8.67
43)	T	2,4,6-Trichlorophenol			0.167	0.186	0.186	0.206	0.210	0.234	0.221	0.236	0.248	0.210	12.80
44)	T	2,4,5-Trichlorophenol			0.173	0.206	0.210	0.223	0.225	0.251	0.239	0.257	0.271	0.228	13.20
45)	S	2-Fluorobiphenyl	0.789	0.787	0.829	0.788	0.821	0.791	0.841	0.809	0.823	0.874	0.815	3.48

Response Factor Report SV107

Method Path : I:\8270\SV107\231025ical\
Method File : FS231025SV107.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Oct 28 17:08:03 2023
Response Via : Initial Calibration

Calibration Files
L1 =AP9L1.D L2 =AP9L2.D L3 =AP9L3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
L8 =ABNL8a.D L9 =ABNL9.D L10 =AP9L10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
46)	T	2-Chloronaphthalene	0.610	0.663	0.685	0.659	0.689	0.668	0.705	0.700	0.716	0.760	0.685	5.79
47)	T	2-Nitroaniline			0.155	0.157	0.180	0.185	0.222	0.206	0.226	0.239	*L	0.9970
48)	T	1,4-Dinitrobenzene				0.077	0.084	0.092	0.106	0.100	0.113	0.122	0.099	16.13
49)	T	1,3-Dinitrobenzene				0.094	0.101	0.107	0.120	0.116	0.122	0.132	0.113	11.75
50)	T	Dimethyl phthalate	0.713	0.768	0.800	0.797	0.815	0.818	0.861	0.823	0.850	0.897	0.814	6.25
51)	T	Acenaphthylene	0.971	0.992	1.040	1.100	1.125	1.093	1.189	1.152	1.175	1.234	1.107	7.76
52)	T	2,6-Dinitrotoluene			0.125	0.148	0.158	0.165	0.184	0.175	0.184	0.197	0.167	13.77
53)	T	1,2-Dinitrobenzene				0.067	0.067	0.070	0.076	0.074	0.077	0.083	0.073	8.14
54)	I	IS2_Naphthalene-d8	----------ISTD----------											
55)	T	a-Terpineol		0.297	0.266	0.307	0.337	0.340	0.363	0.359	0.366	0.370	0.334	10.96
56)	T	3-Chloroaniline			0.123	0.149	0.162	0.160	0.164	0.166	0.167	0.165	0.157	9.44
57)	T	2,6-Dichlorophenol			0.198	0.238	0.262	0.272	0.282	0.286	0.291	0.292	0.265	12.26
58)	T	1-chloro-2-nitrobenzene				0.126	0.143	0.141	0.145	0.143	0.150	0.150	0.143	5.76
59)	T	Caprolactam				0.151	0.166	0.182	0.203	0.207	0.220	0.223	0.193	14.26
60)	T	1,2,4,5-Tetrachlorobenzene	0.318	0.338	0.293	0.325	0.342	0.342	0.344	0.336	0.339	0.334	0.331	4.73
61)	T	Biphenyl	0.759	0.804	0.718	0.825	0.839	0.848	0.841	0.839	0.825	0.834	0.813	5.19
62)	I	IS1_Acenaphthene-d10	----------ISTD----------											
63)	T	3-Nitroaniline			0.238	0.278	0.290	0.289	0.344	0.326	0.332	0.348	0.306	12.52
64)	T	Acenaphthene	1.216	1.070	1.149	1.078	1.094	1.024	1.172	1.086	1.104	1.154	1.115	5.10
65)	T	2,4-Dinitrophenol				0.108	0.129	0.137	0.180	0.163	0.197	0.215	*L	0.9935
66)	T	Dibenzofuran	1.734	1.628	1.722	1.717	1.642	1.561	1.737	1.637	1.624	1.721	1.672	3.66
67)	T	2,4-Dinitrotoluene			0.313	0.366	0.374	0.377	0.433	0.411	0.430	0.459	0.395	11.87
68)	T	4-Nitrophenol			0.253	0.274	0.284	0.291	0.344	0.328	0.333	0.358	0.308	12.18
69)	T	2,3,5,6-Tetrachlorophenol		0.230	0.264	0.280	0.297	0.296	0.351	0.324	0.349	0.368	0.307	14.77
70)	T	2,3,4,6-Tetrachlorophenol		0.201	0.283	0.296	0.309	0.303	0.350	0.328	0.343	0.366	*L	0.9979
71)	T	Diethyl phthalate	1.153	1.162	1.351	1.328	1.324	1.296	1.452	1.382	1.400	1.530	1.338	8.73
72)	T	Fluorene	1.207	1.220	1.330	1.308	1.276	1.216	1.399	1.310	1.306	1.401	1.297	5.37
73)	T	4-Chlorophenyl-phenylether	0.654	0.665	0.687	0.659	0.656	0.606	0.697	0.644	0.658	0.702	0.663	4.20
74)	T	4-Nitroaniline			0.241	0.273	0.283	0.292	0.339	0.322	0.329	0.356	0.304	12.73
75)	T	4,6-Dinitro-o-cresol				0.165	0.177	0.186	0.236	0.216	0.245	0.268	*L	0.9952
76)	T	NDPA/DPA		0.955	1.065	1.086	1.098	1.041	1.184	1.096	1.091	1.197	1.090	6.61
77)	T	Azobenzene		1.184	1.264	1.318	1.303	1.256	1.439	1.368	1.332	1.431	1.322	6.28
78)	S	2,4,6-Tribromophenol		0.099	0.131	0.136	0.142	0.134	0.168	0.145	0.158	0.174	*L	0.9947
79)	T	4-Bromophenyl-phenylether	0.387	0.345	0.364	0.334	0.326	0.326	0.369	0.335	0.359	0.380	0.352	6.32
80)	T	Hexachlorobenzene	0.388	0.349	0.387	0.354	0.357	0.343	0.388	0.345	0.385	0.402	0.370	5.97
81)	T	Pentachlorophenol			0.140	0.170	0.175	0.193	0.239	0.213	0.256	0.274	*L	0.9932
82)	I	IS2_Acenaphthene-d10	----------ISTD----------											
83)	T	Dichloran					0.114	0.138	0.157	0.164	0.185	0.189	0.158	18.12
84)	T	Pentachloronitrobenzene				0.132	0.142	0.153	0.167	0.168	0.179	0.187	0.161	12.31
85)	I	IS3_Acenaphthene-d10	----------ISTD----------											
86)	T	Atrazine		0.269	0.218	0.255	0.286	0.301	0.337	0.353	0.352	0.366	*LF	0.9973
87)	I	IS1_Phenanthrene-d10	----------ISTD----------											
88)	T	Phenanthrene	1.109	1.072	1.088	1.060	1.060	0.999	1.084	1.044	1.054	1.115	1.068	3.17
89)	T	Anthracene	0.979	0.980	1.024	1.043	1.058	1.025	1.118	1.080	1.065	1.152	1.052	5.25
90)	T	Carbazole	0.716	0.826	0.866	0.924	0.943	0.914	1.011	0.976	0.986	1.050	0.921	10.64

Response Factor Report SV107

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Method File : FS231025SV107.m
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Response Via : Initial Calibration

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L8 =ABNL8a.D L9 =ABNL9.D L10 =AP9L10.D

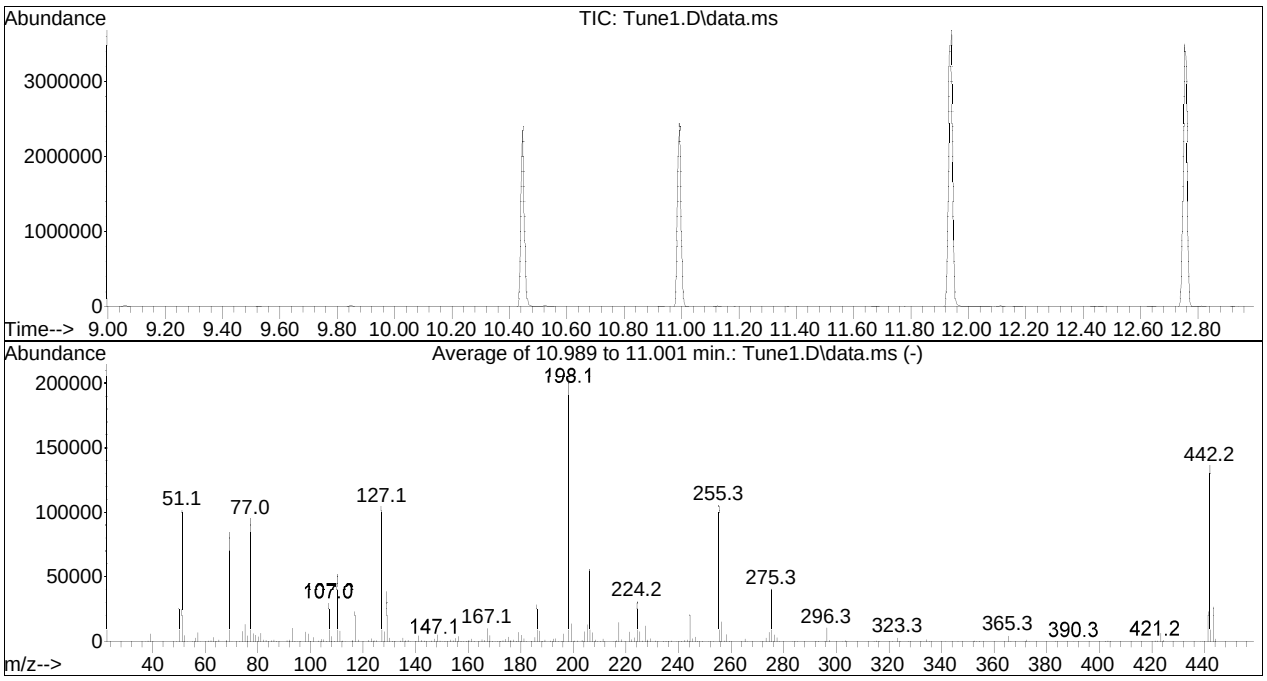
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
91)	T	Di-n-butylphthalate			0.982	1.023	1.057	1.092	1.270	1.187	1.302	1.364	1.160	12.21
92)	T	Fluoranthene	1.150	1.089	1.154	1.168	1.196	1.159	1.262	1.210	1.248	1.334	1.197	5.82
93)	T	Benzidine				0.561	0.630	0.659	0.824	0.775	0.838	0.909	*L	0.9971
94)	T	Pyrene	1.131	1.190	1.242	1.274	1.291	1.259	1.369	1.300	1.296	1.379	1.273	5.87
95)	S	4-Terphenyl-d14	0.787	0.764	0.799	0.829	0.793	0.793	0.879	0.803	0.853	0.895	0.819	5.24
96)	T	Butyl benzyl phthalate			0.350	0.382	0.411	0.426	0.535	0.504	0.566	0.616	*L	0.9943
97)	I	IS2_Phenanthrene-d10	----------ISTD----------											
98)	T	Diphenamid				0.371	0.403	0.457	0.466	0.453	0.491	0.494	0.448	10.14
99)	I	IS3_Phenanthrene-d10	----------ISTD----------											
100)	T	n-Octadecane			0.467	0.494	0.545	0.552	0.603	0.609	0.586	0.568	0.553	9.16
101)	T	Parathion				0.058	0.059	0.068	0.085	0.097	0.110	0.117	*L	0.9943
102)	T	3,3'-Dimethylbenzidine				0.329	0.378	0.438	0.583	0.646	0.696	0.735	*L	0.9973
103)	I	IS1_Chrysene-d12	----------ISTD----------											
104)	T	Benzo[a]anthracene	1.312	1.264	1.291	1.326	1.337	1.282	1.421	1.409	1.422	1.516	1.358	5.92
105)	T	3,3'-Dichlorobenzidine			0.354	0.407	0.437	0.428	0.509	0.482	0.529	0.548	0.462	14.43
106)	T	Chrysene	1.480	1.350	1.331	1.346	1.353	1.272	1.360	1.307	1.344	1.371	1.352	3.96
107)	T	bis(2-Ethylhexyl)phthalate		0.579	0.649	0.737	0.790	0.809	0.979	0.933	1.009	1.081	*Q	0.9991
108)	T	Di-n-octylphthalate			0.939	1.073	1.148	1.299	1.549	1.527	1.673	1.791	*L	0.9961
109)	T	Benzo(b)fluoranthene	1.156	1.111	1.197	1.250	1.173	1.223	1.424	1.276	1.366	1.469	1.265	9.41
110)	T	Benzo(k)fluoranthene	1.059	1.070	1.212	1.290	1.259	1.293	1.214	1.335	1.231	1.258	1.222	7.47
111)	T	Benzo(a)pyrene		0.937	1.022	1.061	1.037	1.090	1.156	1.132	1.133	1.203	1.086	7.45
112)	I	IS1_Perylene-d12	----------ISTD----------											
113)	T	Indeno(1,2,3-cd)pyrene		0.749	0.825	0.827	0.865	0.831	0.899	0.917	0.978	1.032	0.880	9.85
114)	T	Dibenzo[a,h]anthracene		0.855	0.928	0.965	1.000	0.968	1.026	0.996	1.045	1.097	0.987	7.06
115)	T	Benzo(g,h,i)perylene	0.947	0.933	0.974	0.997	1.019	0.988	1.021	1.003	1.016	1.048	0.995	3.54

(#) = Out of Range

Data Path : I:\8270\SV107\231025ical\
Data File : Tune1.D
Acq On : 25 Oct 2023 11:57 pm
Operator : SV107:cmm
Sample : Tune
Misc : WG1845543,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\231025ical\FS231025SV107.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Oct 28 17:08:03 2023



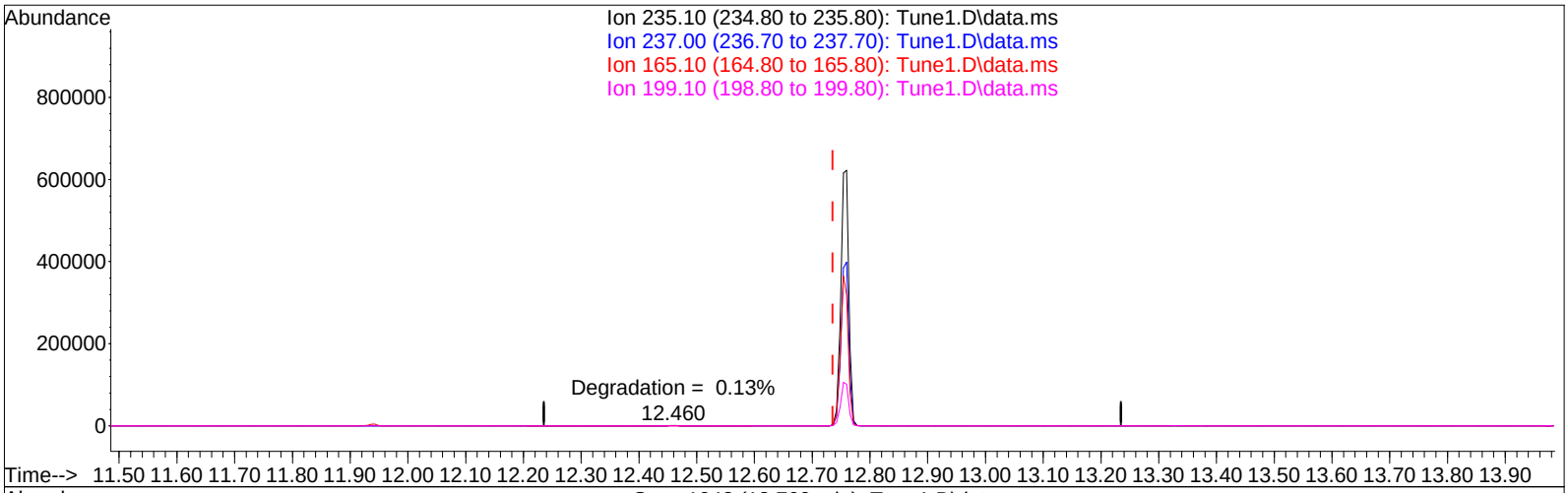
Spectrum Information: Average of 10.989 to 11.001 min.

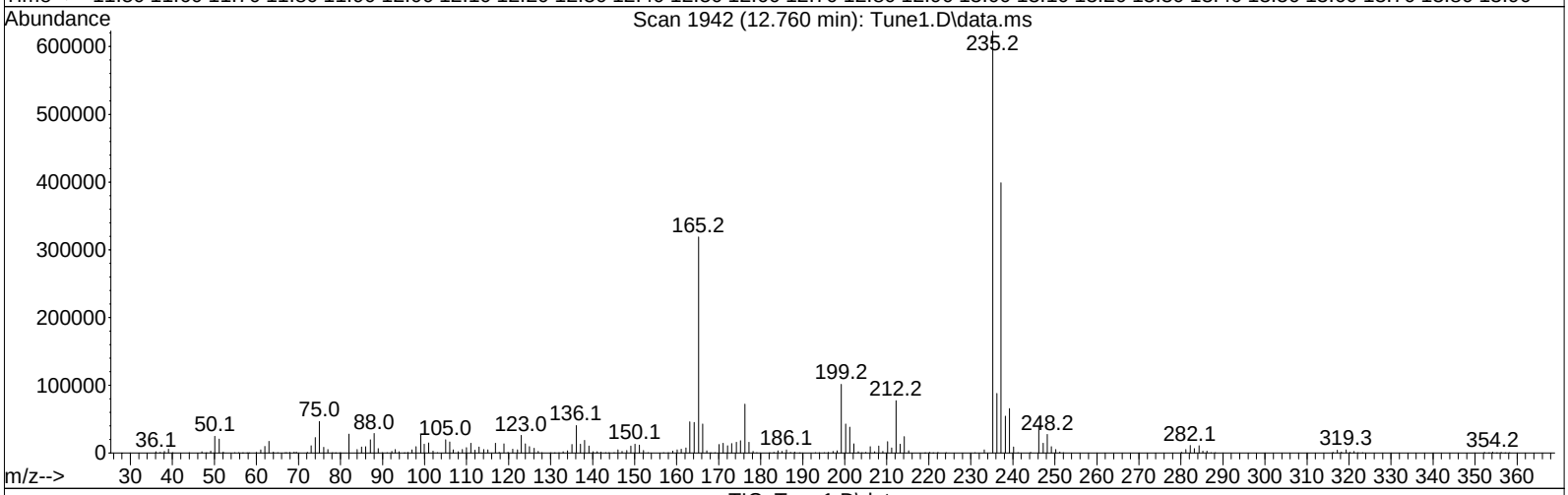
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	49.7	101421	PASS
68	69	0.00	2	1.8	1512	PASS
69	69	100	100	100.0	84021	PASS
70	69	0.00	2	0.5	414	PASS
127	198	10	80	50.9	103955	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	204269	PASS
199	198	5	9	6.7	13681	PASS
275	198	10	60	20.0	40821	PASS
365	198	1	100	2.2	4486	PASS
441	442	0.01	24	16.9	22888	PASS
442	198	50	100	66.4	135667	PASS
443	442	15	24	19.7	26667	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231025ical\
Data File : Tune1.D
Acq On : 25 Oct 2023 11:57 pm
Operator : SV107:cmm
Sample : Tune
Misc : WG1845543,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 28 17:29:09 2023
Quant Method : I:\8270\SV107\231025ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:28:54 2023
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(6) DDT (T)

12.760min (+ 0.024) 99.63

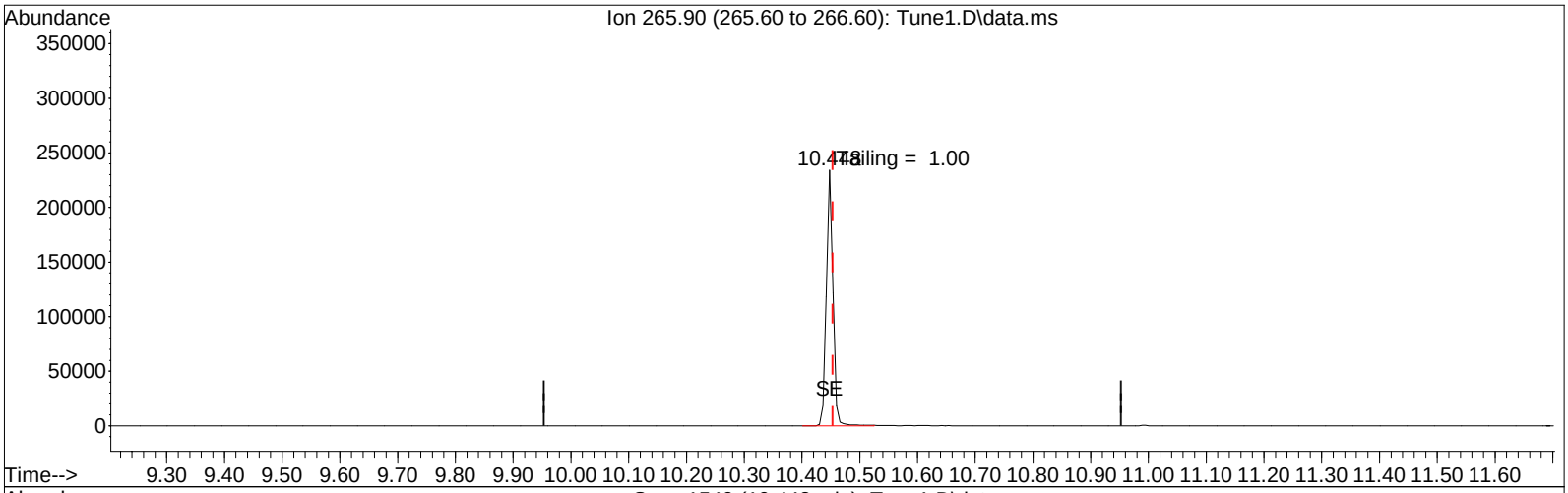
response 607337

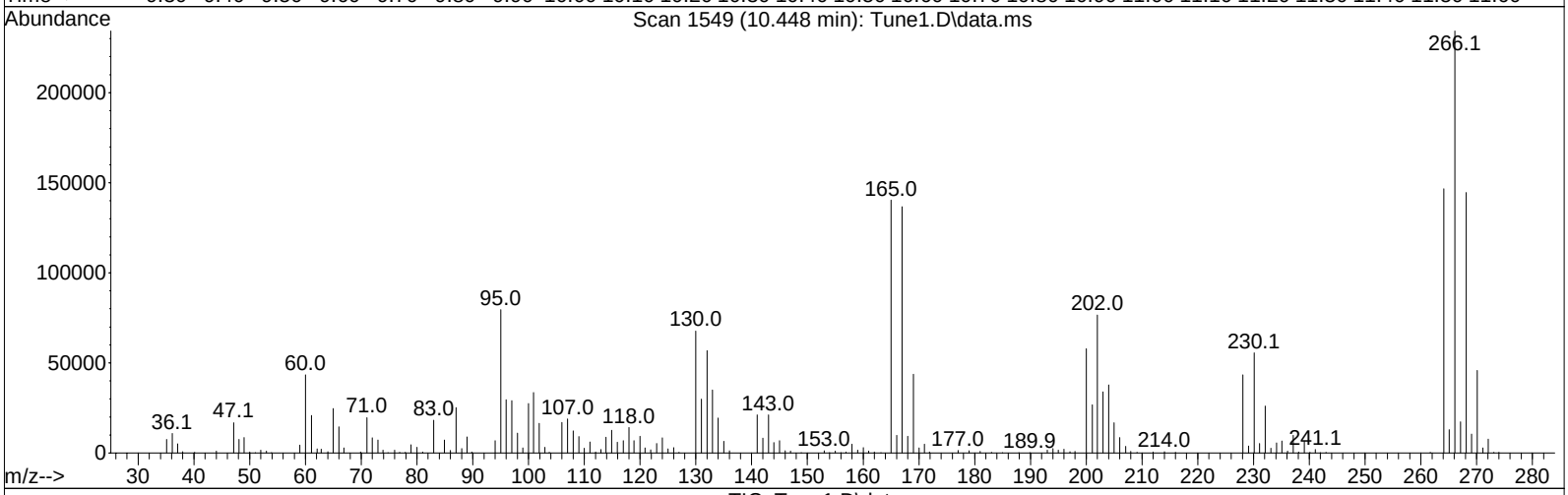
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.70	63.07
165.10	52.70	55.93
199.10	15.10	16.84

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231025ical\
Data File : Tune1.D
Acq On : 25 Oct 2023 11:57 pm
Operator : SV107:cmm
Sample : Tune
Misc : WG1845543,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 28 17:29:09 2023
Quant Method : I:\8270\SV107\231025ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:28:54 2023
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(1) Pentachlorophenol (T)

10.448min (-0.005) 88.44

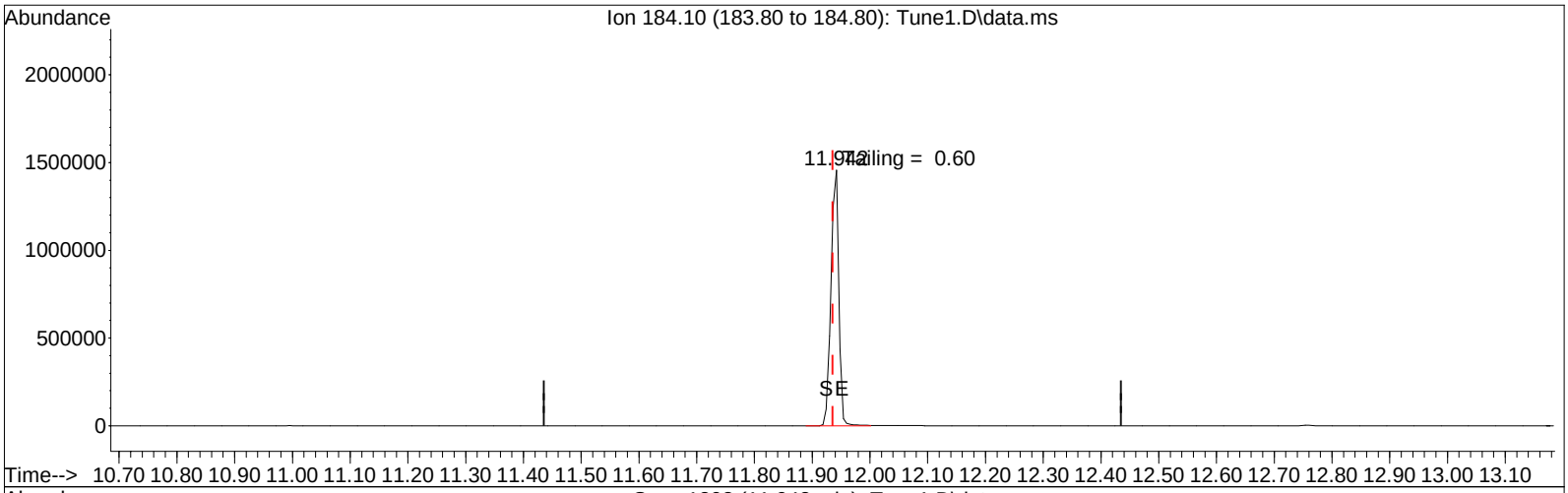
response 185753

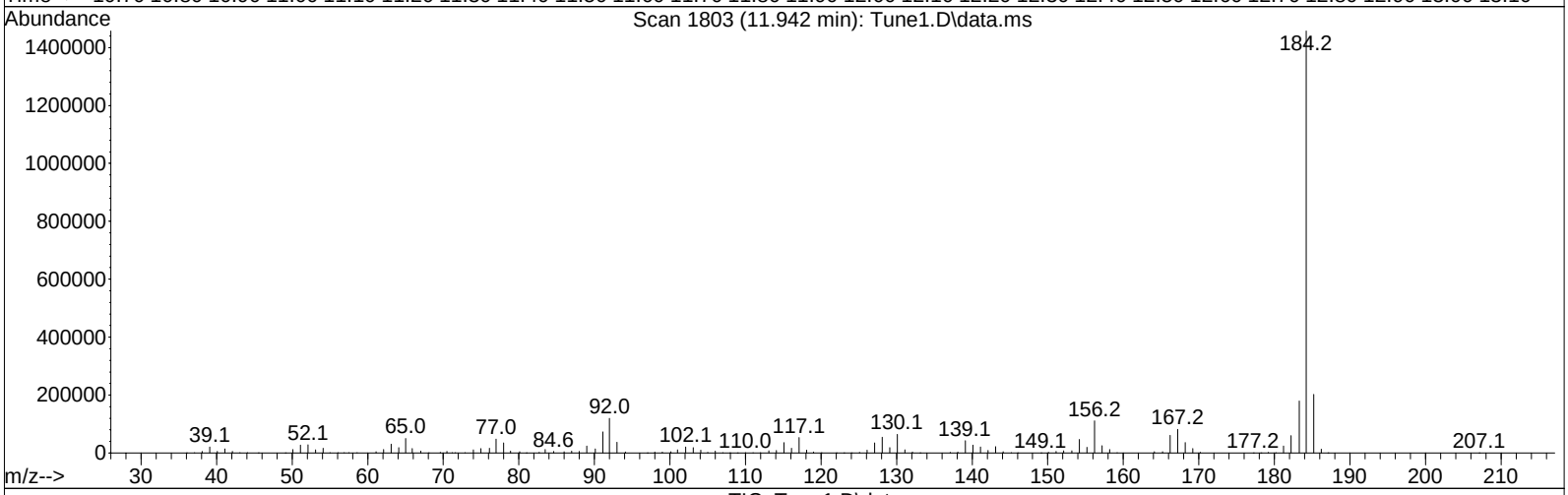
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231025ical\
Data File : Tune1.D
Acq On : 25 Oct 2023 11:57 pm
Operator : SV107:cmm
Sample : Tune
Misc : WG1845543,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 28 17:29:09 2023
Quant Method : I:\8270\SV107\231025ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:28:54 2023
Response via : Initial Calibration





TIC: Tune1.D\data.ms

(3) Benzidine (T)

11.942min (+ 0.007) 133.57

response 1359713

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL10.D
Acq On : 26 Oct 2023 12:22 am
Operator : SV107:cmm
Sample : IL1,32,,ABNL50 Lot# 10162
Misc : WG1845543,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 27 11:33:55 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	5.948	152	28467	4.000 ug/ml	0.00
Standard Area 1 = 27259			Recovery = 104.43%		
34) IS1_Naphthalene-d8	7.425	136	104394	4.000 ug/ml	0.00
Standard Area 1 = 100070			Recovery = 104.32%		
62) IS1_Acenaphthene-d10	9.183	164	62757	4.000 ug/ml	0.00
Standard Area 1 = 61827			Recovery = 101.50%		
87) IS1_Phenanthrene-d10	10.607	188	123735	4.000 ug/ml	# 0.00
Standard Area 1 = 118484			Recovery = 104.43%		
103) IS1_Chrysene-d12	13.177	240	105786	4.000 ug/ml	0.00
Standard Area 1 = 97319			Recovery = 108.70%		
112) IS1_Perylene-d12	14.595	264	106203	4.000 ug/ml	0.00
Standard Area 1 = 102757			Recovery = 103.35%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.537	112	437982	58.249 ug/ml	-0.01
Spiked Amount 5.000	Range 15 - 110		Recovery = 1164.98%#		
7) Phenol-d6	5.595	99	538790	58.123 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1162.46%#		
19) Nitrobenzene-d5	6.648	82	501792	57.733 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2309.32%#		
45) 2-Fluorobiphenyl	8.560	172	1140089	55.214 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2208.56%#		
78) 2,4,6-Tribromophenol	9.954	330	136666	65.088 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 1301.76%#		
95) 4-Terphenyl-d14	12.177	244	1383713	56.387 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 2255.48%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.566	74	286546	59.018 ug/ml#	74
3) Pyridine	1.584	79	511414	57.600 ug/ml	88
5) Aniline	5.507	93	716574	57.331 ug/ml	98
6) 2-Chlorophenol	5.666	128	461646	57.519 ug/ml	97
8) Phenol	5.613	94	567187	56.866 ug/ml	98
9) Bis(2-chloroethyl)ether	5.666	93	459239	55.292 ug/ml#	67
10) 1,3-Dichlorobenzene	5.860	146	525435	55.290 ug/ml	99
11) 1,4-Dichlorobenzene	5.966	146	534976	54.916 ug/ml	99
12) 1,2-Dichlorobenzene	6.154	146	519051	55.263 ug/ml	99
13) Benzyl alcohol	6.195	79	398556	60.613 ug/ml	97
14) Bis(2-chloroisopropyl)...	6.378	45	871254	52.840 ug/ml#	70

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL10.D
Acq On : 26 Oct 2023 12:22 am
Operator : SV107:cmm
Sample : IL1,32,,ABNL50 Lot# 10162
Misc : WG1845543,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 27 11:33:55 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.389	108	407355	56.716	ug/ml	97
16) Hexachloroethane	6.560	117	217239	57.713	ug/ml#	75
17) n-Nitrosodi-n-propylamine	6.537	70	349652	58.119	ug/ml#	92
18) 3-Methylphenol/4-Methy...	6.589	108	440645	57.787	ug/ml	97
20) Nitrobenzene	6.666	77	509191	57.161	ug/ml	98
21) Isophorone	6.966	82	919659	58.058	ug/ml	95
22) 2-Nitrophenol	7.037	139	238896	60.592	ug/ml#	96
23) 2,4-Dimethylphenol	7.166	107	467369	56.309	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.254	93	590990	54.526	ug/ml#	97
25) 2,4-Dichlorophenol	7.313	162	415031	57.100	ug/ml	98
26) 1,2,4-Trichlorobenzene	7.384	180	457046	56.029	ug/ml	99
35) Naphthalene	7.448	128	1345401	53.533	ug/ml	99
36) Benzoic Acid	7.372	105	348880M1	78.704	ug/ml	
37) 4-Chloroaniline	7.548	65	207217	57.575	ug/ml	92
38) Hexachlorobutadiene	7.619	225	268501	54.213	ug/ml	98
39) p-Chloro-m-cresol	8.089	107	430914	62.478	ug/ml	99
40) 2-Methylnaphthalene	8.172	142	947865	55.540	ug/ml	96
41) 1-Methylnaphthalene	8.266	115	334989	56.437	ug/ml	93
42) Hexachlorocyclopentadiene	8.348	237	325990	58.820	ug/ml	97
43) 2,4,6-Trichlorophenol	8.478	196	323641	59.171	ug/ml	97
44) 2,4,5-Trichlorophenol	8.507	196	353982	60.208	ug/ml	98
46) 2-Chloronaphthalene	8.648	162	991108	56.869	ug/ml	98
47) 2-Nitroaniline	8.772	138	312369	64.773	ug/ml	96
48) 1,4-Dinitrobenzene	8.913	168	159631	66.432	ug/ml	83
49) 1,3-Dinitrobenzene	8.989	168	172529	61.895	ug/ml#	1
50) Dimethyl phthalate	8.995	163	1170184	54.807	ug/ml#	98
51) Acenaphthylene	9.042	152	1610367	56.464	ug/ml	98
52) 2,6-Dinitrotoluene	9.030	165	256492	59.486	ug/ml#	73
53) 1,2-Dinitrobenzene	9.072	168	108360	59.731	ug/ml#	84
63) 3-Nitroaniline	9.183	138	273247	60.364	ug/ml	99
64) Acenaphthene	9.219	154	905218	56.323	ug/ml	89
65) 2,4-Dinitrophenol	9.278	184	168290	78.169	ug/ml	92
66) Dibenzofuran	9.389	168	1350131	55.128	ug/ml#	72
67) 2,4-Dinitrotoluene	9.413	165	360258	60.958	ug/ml#	83
68) 4-Nitrophenol	9.389	65	281218	61.646	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.483	232	288483	62.030	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.525	232	286981	60.335	ug/ml	98
71) Diethyl phthalate	9.683	149	1199972	58.998	ug/ml	99
72) Fluorene	9.719	166	1098868	57.613	ug/ml	94
73) 4-Chlorophenyl phenyl ...	9.748	204	550328	57.891	ug/ml	95

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL10.D
Acq On : 26 Oct 2023 12:22 am
Operator : SV107:cmm
Sample : IL1,32,,ABNL50 Lot# 10162
Misc : WG1845543,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 27 11:33:55 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	9.777	138	279641	61.124	ug/ml#	90
75) 4,6-Dinitro-o-cresol	9.801	198	210128	71.820	ug/ml#	80
76) NDPA/DPA	9.872	169	939059	57.497	ug/ml	96
77) Azobenzene	9.895	77	1122278	56.942	ug/ml	98
79) 4-Bromophenyl phenyl e...	10.207	248	298201	58.279	ug/ml	94
80) Hexachlorobenzene	10.254	284	315010	58.520	ug/ml	94
81) Pentachlorophenol	10.448	266	215162	70.965	ug/ml	99
88) Phenanthrene	10.630	178	1724678	55.835	ug/ml	99
89) Anthracene	10.677	178	1782031	56.192	ug/ml	98
90) Carbazole	10.854	167	1623405	57.444	ug/ml	98
91) Di-n-butylphthalate	11.254	149	2109313	62.424	ug/ml	99
92) Fluoranthene	11.771	202	2063596	57.568	ug/ml#	93
93) Benzidine	11.936	184	1405744	68.921	ug/ml#	96
94) Pyrene	11.977	202	2132863	54.753	ug/ml	98
96) Butyl benzyl phthalate	12.695	149	952272	72.264	ug/ml	93
104) Benzo(a)anthracene	13.171	228	2004316	59.104	ug/ml	98
105) 3,3'-Dichlorobenzidine	13.183	252	724811	63.981	ug/ml	98
106) Chrysene	13.207	228	1813214	53.891	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.318	149	1429776	66.790	ug/ml#	92
108) Di-n-octylphthalate	13.977	149	2368628	68.922	ug/ml#	76
109) Benzo(b)fluoranthene	14.248	252	1942105	60.048	ug/ml	96
110) Benzo(k)fluoranthene	14.271	252	1662982	48.635	ug/ml#	95
111) Benzo(a)pyrene	14.548	252	1590876	55.174	ug/ml#	95
113) Indeno(1,2,3-cd)pyrene	15.542	276	1369942M6	62.100	ug/mL	
114) Dibenzo(a,h)anthracene	15.571	278	1456122	56.627	ug/ml	95
115) Benzo(ghi)perylene	15.759	276	1390658	53.001	ug/ml	94

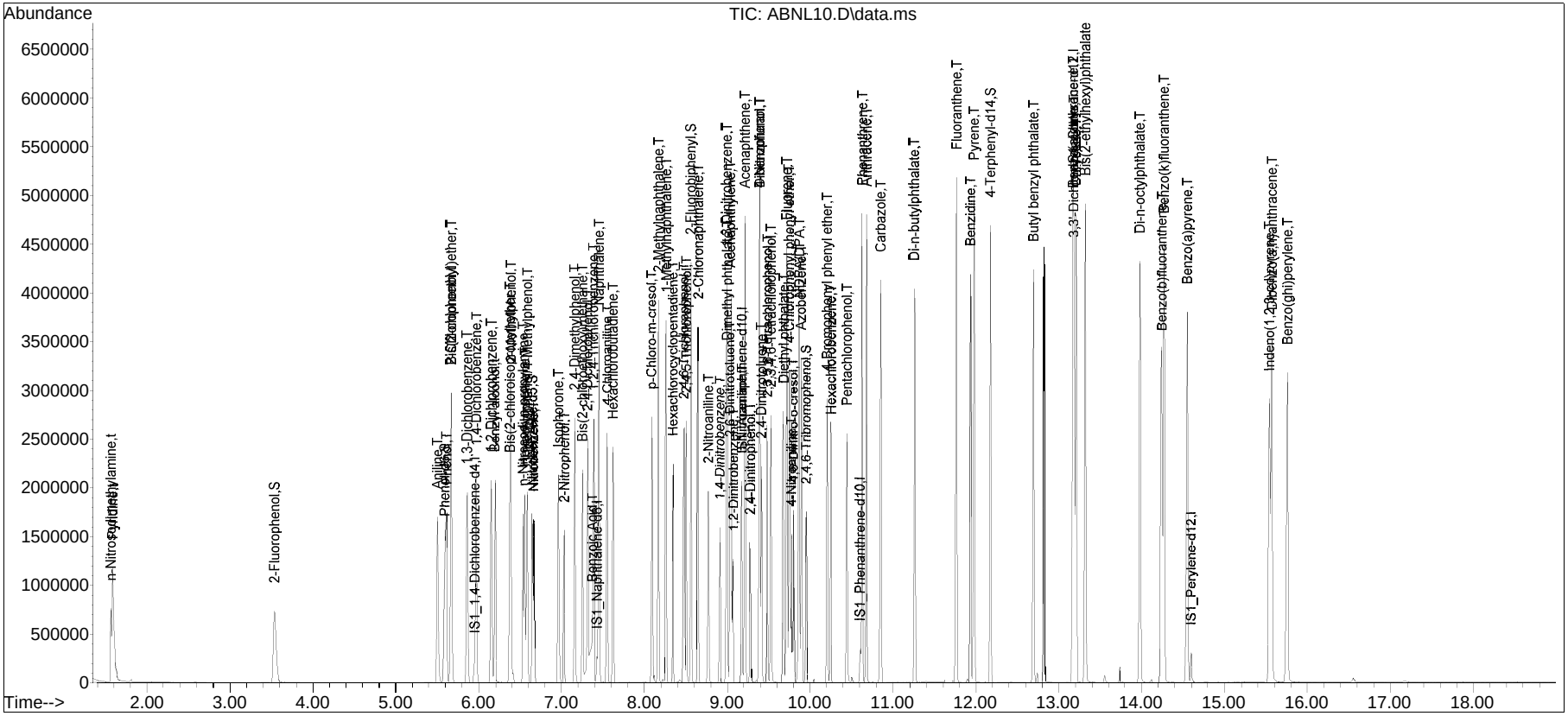
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL10.D
Acq On : 26 Oct 2023 12:22 am
Operator : SV107:cmm
Sample : IL1,32,,ABNL50 Lot# 10162
Misc : WG1845543,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 27 11:33:55 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

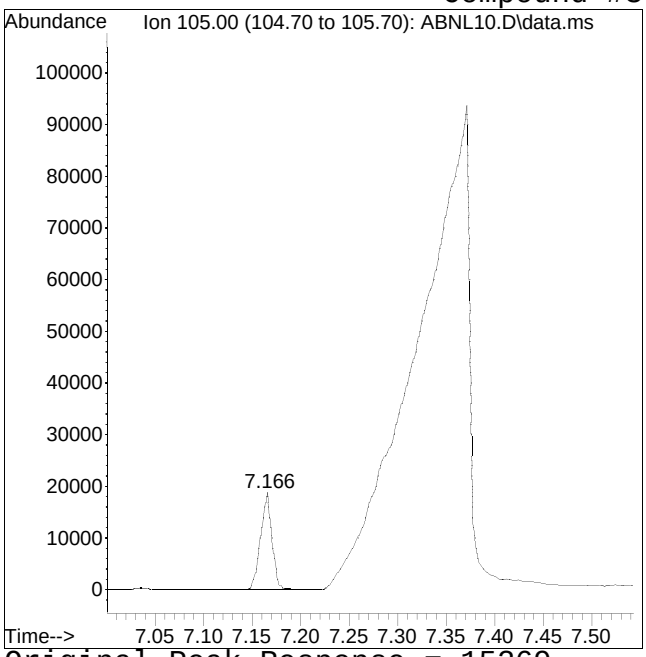
Sub List : ABNical_REV1 - ABN ical sublistNL6.D•

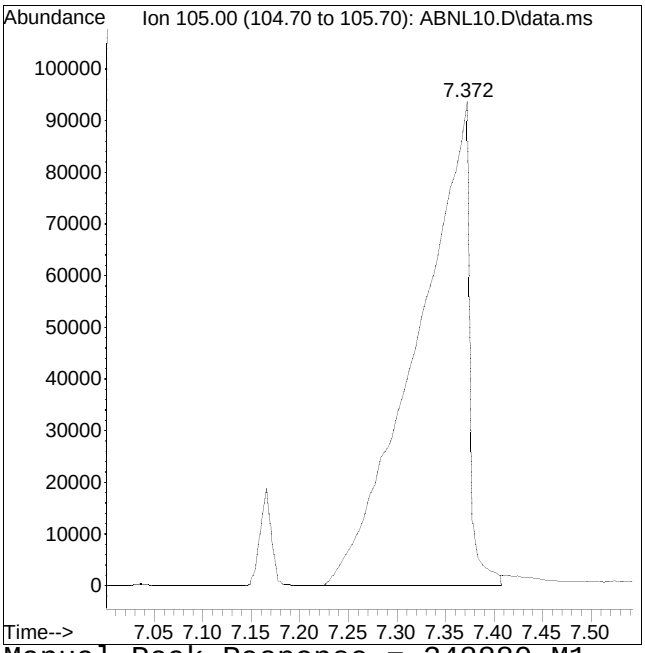


Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL10.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 12:22 am Instrument : SV107
Sample : IL1,32,,ABNL50 Lot# 10162 Quant Date : 10/27/2023 11:22 am

Compound #36: Benzoic Acid



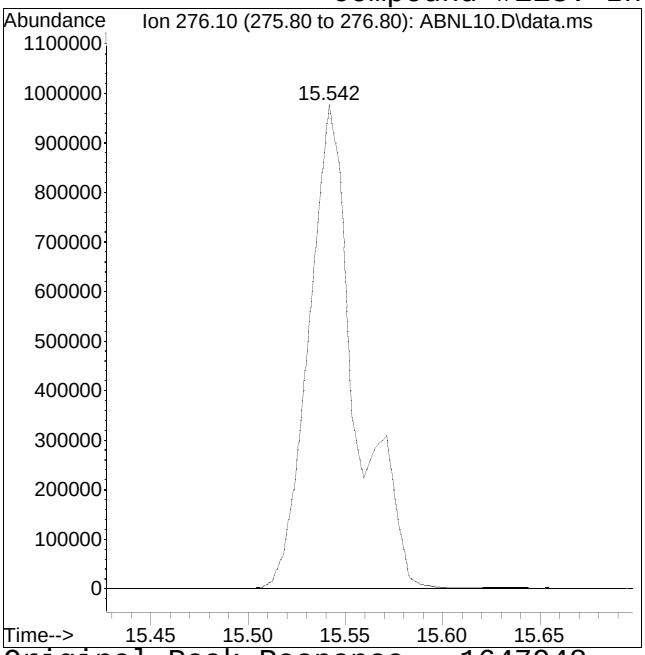


Original Peak Response = 15269 Manual Peak Response = 348880 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

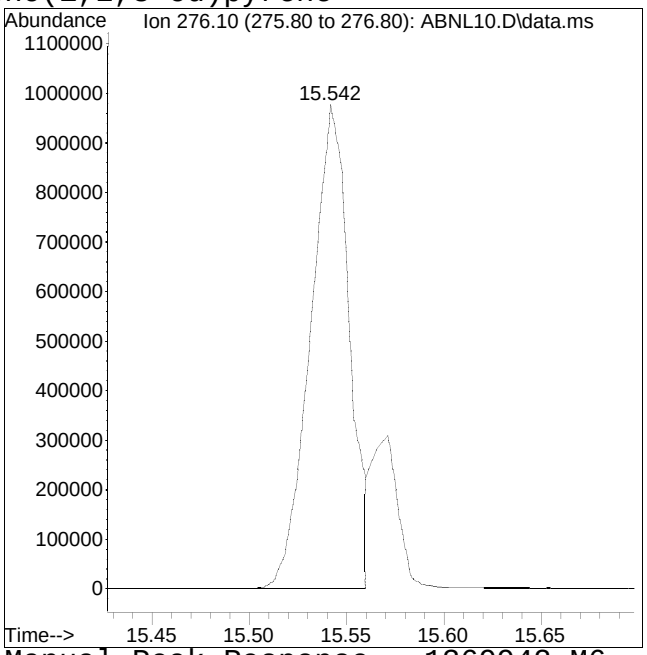
Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL10.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 12:22 am Instrument : SV107
Sample : IL1,32,,ABNL50 Lot# 10162 Quant Date : 10/27/2023 11:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1647948



Manual Peak Response = 1369942 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL9.D
Acq On : 26 Oct 2023 12:48 am
Operator : SV107:cmm
Sample : IL2,32,,ABNL35 Lot# 10163
Misc : WG1845543,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 11:44:23 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	5.942	152	28413	4.000 ug/ml	0.00
Standard Area 1 = 27259			Recovery = 104.23%		
34) IS1_Naphthalene-d8	7.425	136	107941	4.000 ug/ml	0.00
Standard Area 1 = 100070			Recovery = 107.87%		
62) IS1_Acenaphthene-d10	9.183	164	65229	4.000 ug/ml	0.00
Standard Area 1 = 61827			Recovery = 105.50%		
87) IS1_Phenanthrene-d10	10.601	188	126620	4.000 ug/ml	# 0.00
Standard Area 1 = 118484			Recovery = 106.87%		
103) IS1_Chrysene-d12	13.177	240	107252	4.000 ug/ml	0.00
Standard Area 1 = 97319			Recovery = 110.21%		
112) IS1_Perylene-d12	14.589	264	106236	4.000 ug/ml	0.00
Standard Area 1 = 102757			Recovery = 103.39%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.537	112	289202	38.536 ug/ml	-0.01
Spiked Amount 5.000	Range 15 - 110		Recovery = 770.72%#		
7) Phenol-d6	5.590	99	356799	38.564 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 771.28%#		
19) Nitrobenzene-d5	6.648	82	341260	39.338 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1573.52%#		
45) 2-Fluorobiphenyl	8.560	172	777155	36.400 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1456.00%#		
78) 2,4,6-Tribromophenol	9.948	330	90275	41.365 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 827.30%#		
95) 4-Terphenyl-d14	12.177	244	945533	37.653 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 1506.12%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.566	74	188234	38.843 ug/ml#	75
3) Pyridine	1.584	79	321756	36.308 ug/ml	89
5) Aniline	5.507	93	475058	38.080 ug/ml	97
6) 2-Chlorophenol	5.666	128	309406	38.624 ug/ml	97
8) Phenol	5.607	94	382374	38.410 ug/ml	99
9) Bis(2-chloroethyl)ether	5.666	93	311013	37.517 ug/ml#	69
10) 1,3-Dichlorobenzene	5.860	146	362094	38.174 ug/ml	99
11) 1,4-Dichlorobenzene	5.966	146	367694	37.816 ug/ml	99
12) 1,2-Dichlorobenzene	6.154	146	350530	37.392 ug/ml	100
13) Benzyl alcohol	6.195	79	269511	41.065 ug/ml	96
14) Bis(2-chloroisopropyl)...	6.378	45	606762	36.869 ug/ml#	71

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL9.D
Acq On : 26 Oct 2023 12:48 am
Operator : SV107:cmm
Sample : IL2,32,,ABNL35 Lot# 10163
Misc : WG1845543,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 11:44:23 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.384	108	278901	38.905	ug/ml	97
16) Hexachloroethane	6.560	117	146182	38.909	ug/ml#	74
17) n-Nitrosodi-n-propylamine	6.531	70	238294	39.685	ug/ml#	91
18) 3-Methylphenol/4-Methy...	6.584	108	298126	39.171	ug/ml	97
20) Nitrobenzene	6.666	77	348363	39.181	ug/ml	98
21) Isophorone	6.960	82	635116	40.171	ug/ml	95
22) 2-Nitrophenol	7.037	139	166205	42.235	ug/ml#	96
23) 2,4-Dimethylphenol	7.160	107	324709	39.196	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.254	93	410115	37.910	ug/ml#	97
25) 2,4-Dichlorophenol	7.313	162	287640	39.649	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.384	180	322030	39.552	ug/ml	99
35) Naphthalene	7.448	128	949105	36.523	ug/ml	99
36) Benzoic Acid	7.348	105	241700	52.734	ug/ml	97
37) 4-Chloroaniline	7.548	65	142085	38.181	ug/ml	94
38) Hexachlorobutadiene	7.619	225	189201	36.946	ug/ml	98
39) p-Chloro-m-cresol	8.089	107	293339	41.133	ug/ml	100
40) 2-Methylnaphthalene	8.172	142	642716	36.422	ug/ml	95
41) 1-Methylnaphthalene	8.266	115	226770	36.949	ug/ml	96
42) Hexachlorocyclopentadiene	8.348	237	230754	40.268	ug/ml	97
43) 2,4,6-Trichlorophenol	8.478	196	222881	39.410	ug/ml	97
44) 2,4,5-Trichlorophenol	8.507	196	242671	39.919	ug/ml	99
46) 2-Chloronaphthalene	8.642	162	675939	37.510	ug/ml	98
47) 2-Nitroaniline	8.772	138	213576	42.832	ug/ml	96
48) 1,4-Dinitrobenzene	8.913	168	106314	42.790	ug/ml	85
49) 1,3-Dinitrobenzene	8.983	168	115449	40.056	ug/ml#	1
50) Dimethyl phthalate	8.989	163	803116	36.379	ug/ml#	98
51) Acenaphthylene	9.042	152	1110169	37.646	ug/ml	99
52) 2,6-Dinitrotoluene	9.025	165	173732	38.968	ug/ml#	70
53) 1,2-Dinitrobenzene	9.066	168	72961	38.896	ug/ml#	1
63) 3-Nitroaniline	9.178	138	189601	40.298	ug/ml	99
64) Acenaphthene	9.219	154	630179	37.724	ug/ml	90
65) 2,4-Dinitrophenol	9.278	184	112335	50.201	ug/ml	93
66) Dibenzofuran	9.389	168	926857	36.411	ug/ml#	73
67) 2,4-Dinitrotoluene	9.407	165	245481	39.963	ug/ml#	86
68) 4-Nitrophenol	9.383	65	189821	40.034	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.483	232	199337	41.237	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.525	232	195533	39.551	ug/ml	98
71) Diethyl phthalate	9.678	149	798853	37.788	ug/ml	99
72) Fluorene	9.719	166	745559	37.608	ug/ml	91
73) 4-Chlorophenyl phenyl ...	9.742	204	375706	38.024	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL9.D
Acq On : 26 Oct 2023 12:48 am
Operator : SV107:cmm
Sample : IL2,32,,ABNL35 Lot# 10163
Misc : WG1845543,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 11:44:23 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.766	138	187747	39.482	ug/ml#	92
75)	4,6-Dinitro-o-cresol	9.795	198	139751	45.956	ug/ml#	76
76)	NDPA/DPA	9.866	169	622440	36.667	ug/ml	95
77)	Azobenzene	9.895	77	760471	37.122	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.207	248	204814	38.511	ug/ml	95
80)	Hexachlorobenzene	10.248	284	219740	39.274	ug/ml	92
81)	Pentachlorophenol	10.448	266	146336	46.436	ug/ml	98
88)	Phenanthrene	10.630	178	1167772	36.944	ug/ml	99
89)	Anthracene	10.678	178	1179919	36.358	ug/ml	98
90)	Carbazole	10.854	167	1092135	37.765	ug/ml	98
91)	Di-n-butylphthalate	11.254	149	1442838	41.727	ug/ml	99
92)	Fluoranthene	11.766	202	1382605	37.692	ug/ml#	94
93)	Benzidine	11.930	184	928878	44.503	ug/ml#	96
94)	Pyrene	11.977	202	1436156	36.027	ug/ml	98
96)	Butyl benzyl phthalate	12.695	149	626916	46.490	ug/ml	93
104)	Benzo(a)anthracene	13.166	228	1334433	38.813	ug/ml	98
105)	3,3'-Dichlorobenzidine	13.183	252	496417	43.221	ug/ml	99
106)	Chrysene	13.207	228	1261407	36.978	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.319	149	947297	43.647	ug/ml#	93
108)	Di-n-octylphthalate	13.977	149	1570384	45.070	ug/ml#	77
109)	Benzo(b)fluoranthene	14.242	252	1281600	39.084	ug/ml	96
110)	Benzo(k)fluoranthene	14.265	252	1155635	33.335	ug/ml#	95
111)	Benzo(a)pyrene	14.542	252	1063285	36.372	ug/ml	95
113)	Indeno(1,2,3-cd)pyrene	15.536	276	909083	41.196	ug/mL	97
114)	Dibenzo(a,h)anthracene	15.560	278	971414	37.765	ug/ml	95
115)	Benzo(ghi)perylene	15.748	276	944173	35.974	ug/ml	95

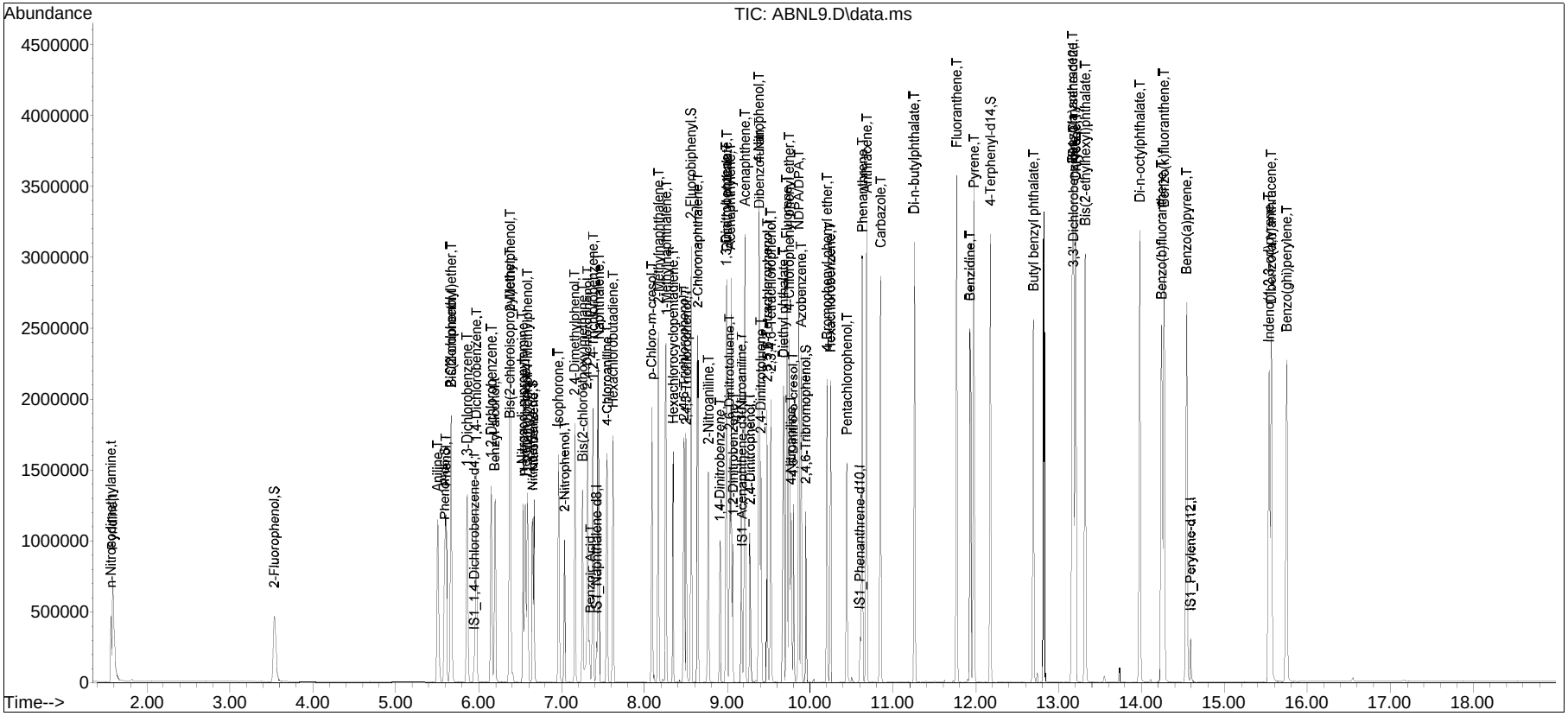
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL9.D
Acq On : 26 Oct 2023 12:48 am
Operator : SV107:cmm
Sample : IL2,32,,ABNL35 Lot# 10163
Misc : WG1845543,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 11:44:23 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : ABNical_REV1 - ABN ical sublistNL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ABNL9.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 12:48 am	Instrument	: SV107
Sample	: IL2,32,,ABNL35 Lot# 10163	Quant Date	: 10/27/2023 11:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL7.D
Acq On : 26 Oct 2023 1:39 am
Operator : SV107:cmm
Sample : IL4,32,,ABNL10 Lot# 10165
Misc : WG1845543,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 11:42:36 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.948	152	29602	4.000	ug/ml	0.00
Standard Area 1 = 27259			Recovery = 108.60%			
34) IS1_Naphthalene-d8	7.425	136	113344	4.000	ug/ml	0.00
Standard Area 1 = 100070			Recovery = 113.26%			
62) IS1_Acenaphthene-d10	9.183	164	66834	4.000	ug/ml	0.00
Standard Area 1 = 61827			Recovery = 108.10%			
87) IS1_Phenanthrene-d10	10.601	188	130785	4.000	ug/ml	0.00
Standard Area 1 = 118484			Recovery = 110.38%			
103) IS1_Chrysene-d12	13.171	240	112136	4.000	ug/ml	0.00
Standard Area 1 = 97319			Recovery = 115.23%			
112) IS1_Perylene-d12	14.589	264	115627	4.000	ug/ml	0.00
Standard Area 1 = 102757			Recovery = 112.52%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.543	112	85800	10.973	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 219.46%#			
7) Phenol-d6	5.590	99	107553	11.158	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 223.16%#			
19) Nitrobenzene-d5	6.642	82	104772	11.592	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 463.68%#			
45) 2-Fluorobiphenyl	8.560	172	238288	10.629	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 425.16%#			
78) 2,4,6-Tribromophenol	9.948	330	27988	12.516	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 250.32%#			
95) 4-Terphenyl-d14	12.171	244	287320	11.077	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 443.08%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.572	74	58107	11.509	ug/ml#	74
3) Pyridine	1.596	79	94777	10.265	ug/ml	91
5) Aniline	5.507	93	143254	11.022	ug/ml	97
6) 2-Chlorophenol	5.660	128	94710	11.348	ug/ml	97
8) Phenol	5.601	94	117196	11.300	ug/ml	98
9) Bis(2-chloroethyl)ether	5.666	93	93715	10.851	ug/ml#	67
10) 1,3-Dichlorobenzene	5.860	146	109736	11.104	ug/ml	99
11) 1,4-Dichlorobenzene	5.966	146	110446	10.903	ug/ml	99
12) 1,2-Dichlorobenzene	6.154	146	104515	10.701	ug/ml	100
13) Benzyl alcohol	6.189	79	76687	11.215	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.378	45	186485	10.876	ug/ml#	72

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL7.D
Acq On : 26 Oct 2023 1:39 am
Operator : SV107:cmm
Sample : IL4,32,,ABNL10 Lot# 10165
Misc : WG1845543,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 11:42:36 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.384	108	84318	11.289	ug/ml	98
16) Hexachloroethane	6.560	117	44523	11.375	ug/ml#	75
17) n-Nitrosodi-n-propylamine	6.531	70	71079	11.362	ug/ml#	91
18) 3-Methylphenol/4-Methy...	6.584	108	90133	11.367	ug/ml	96
20) Nitrobenzene	6.666	77	105057	11.341	ug/ml	98
21) Isophorone	6.960	82	188989	11.473	ug/ml	96
22) 2-Nitrophenol	7.036	139	47940	11.693	ug/ml#	96
23) 2,4-Dimethylphenol	7.160	107	97151	11.256	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.248	93	126200	11.197	ug/ml	98
25) 2,4-Dichlorophenol	7.313	162	85531	11.316	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.384	180	96290	11.351	ug/ml	98
35) Naphthalene	7.442	128	284803	10.437	ug/ml	99
36) Benzoic Acid	7.289	105	62313	12.947	ug/ml	96
37) 4-Chloroaniline	7.542	65	42581	10.897	ug/ml	95
38) Hexachlorobutadiene	7.619	225	56388	10.486	ug/ml	98
39) p-Chloro-m-cresol	8.089	107	85841	11.463	ug/ml	99
40) 2-Methylnaphthalene	8.166	142	199871	10.787	ug/ml	96
41) 1-Methylnaphthalene	8.260	115	69377	10.765	ug/ml	94
42) Hexachlorocyclopentadiene	8.348	237	67814	11.270	ug/ml	98
43) 2,4,6-Trichlorophenol	8.472	196	66225	11.152	ug/ml	98
44) 2,4,5-Trichlorophenol	8.501	196	71191	11.153	ug/ml	97
46) 2-Chloronaphthalene	8.642	162	199669	10.552	ug/ml	98
47) 2-Nitroaniline	8.766	138	62786	11.991	ug/ml	97
48) 1,4-Dinitrobenzene	8.907	168	30009	11.502	ug/ml	92
49) 1,3-Dinitrobenzene	8.978	168	34115	11.272	ug/ml#	1
50) Dimethyl phthalate	8.978	163	244059	10.528	ug/ml#	98
51) Acenaphthylene	9.036	152	336796	10.877	ug/ml	99
52) 2,6-Dinitrotoluene	9.019	165	52108	11.131	ug/ml	93
53) 1,2-Dinitrobenzene	9.054	168	21511	10.921	ug/ml#	1
63) 3-Nitroaniline	9.172	138	57469	11.921	ug/ml	99
64) Acenaphthene	9.213	154	195842	11.442	ug/ml	91
65) 2,4-Dinitrophenol	9.272	184	30108	13.132	ug/ml	93
66) Dibenzofuran	9.383	168	290180	11.126	ug/ml#	75
67) 2,4-Dinitrotoluene	9.401	165	72383	11.500	ug/ml	90
68) 4-Nitrophenol	9.378	65	57470	11.830	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.483	232	58687	11.849	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	9.525	232	58488	11.546	ug/ml	97
71) Diethyl phthalate	9.672	149	242584	11.199	ug/ml	100
72) Fluorene	9.713	166	233678	11.504	ug/ml	93
73) 4-Chlorophenyl phenyl ...	9.742	204	116407	11.498	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL7.D
Acq On : 26 Oct 2023 1:39 am
Operator : SV107:cmm
Sample : IL4,32,,ABNL10 Lot# 10165
Misc : WG1845543,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 11:42:36 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	9.754	138	56639	11.625	ug/ml#	92
75) 4,6-Dinitro-o-cresol	9.789	198	39459	12.664	ug/ml#	76
76) NDPA/DPA	9.860	169	197773	11.371	ug/ml	95
77) Azobenzene	9.889	77	240509	11.458	ug/ml	98
79) 4-Bromophenyl phenyl e...	10.207	248	61574	11.300	ug/ml	96
80) Hexachlorobenzene	10.242	284	64833	11.309	ug/ml	94
81) Pentachlorophenol	10.442	266	39897	12.356	ug/ml	98
88) Phenanthrene	10.624	178	354573	10.860	ug/ml	99
89) Anthracene	10.672	178	365428	10.902	ug/ml	99
90) Carbazole	10.848	167	330673	11.070	ug/ml	99
91) Di-n-butylphthalate	11.254	149	415242	11.626	ug/ml	99
92) Fluoranthene	11.766	202	412520	10.888	ug/ml#	94
93) Benzidine	11.930	184	269499	12.501	ug/ml#	96
94) Pyrene	11.971	202	447732	10.874	ug/ml	99
96) Butyl benzyl phthalate	12.689	149	175054	12.568	ug/ml	95
104) Benzo(a)anthracene	13.166	228	398350	11.082	ug/ml	98
105) 3,3'-Dichlorobenzidine	13.177	252	142796	11.891	ug/ml	99
106) Chrysene	13.195	228	381140	10.686	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.313	149	274497	12.097	ug/ml#	92
108) Di-n-octylphthalate	13.971	149	434364	11.923	ug/ml#	78
109) Benzo(b)fluoranthene	14.230	252	399160	11.643	ug/ml#	95
110) Benzo(k)fluoranthene	14.260	252	340424	9.392	ug/ml	97
111) Benzo(a)pyrene	14.536	252	323953	10.599	ug/ml	96
113) Indeno(1,2,3-cd)pyrene	15.530	276	259972M6	10.824	ug/mL	
114) Dibenzo(a,h)anthracene	15.554	278	296685	10.597	ug/ml	98
115) Benzo(ghi)perylene	15.742	276	295161	10.332	ug/ml	96

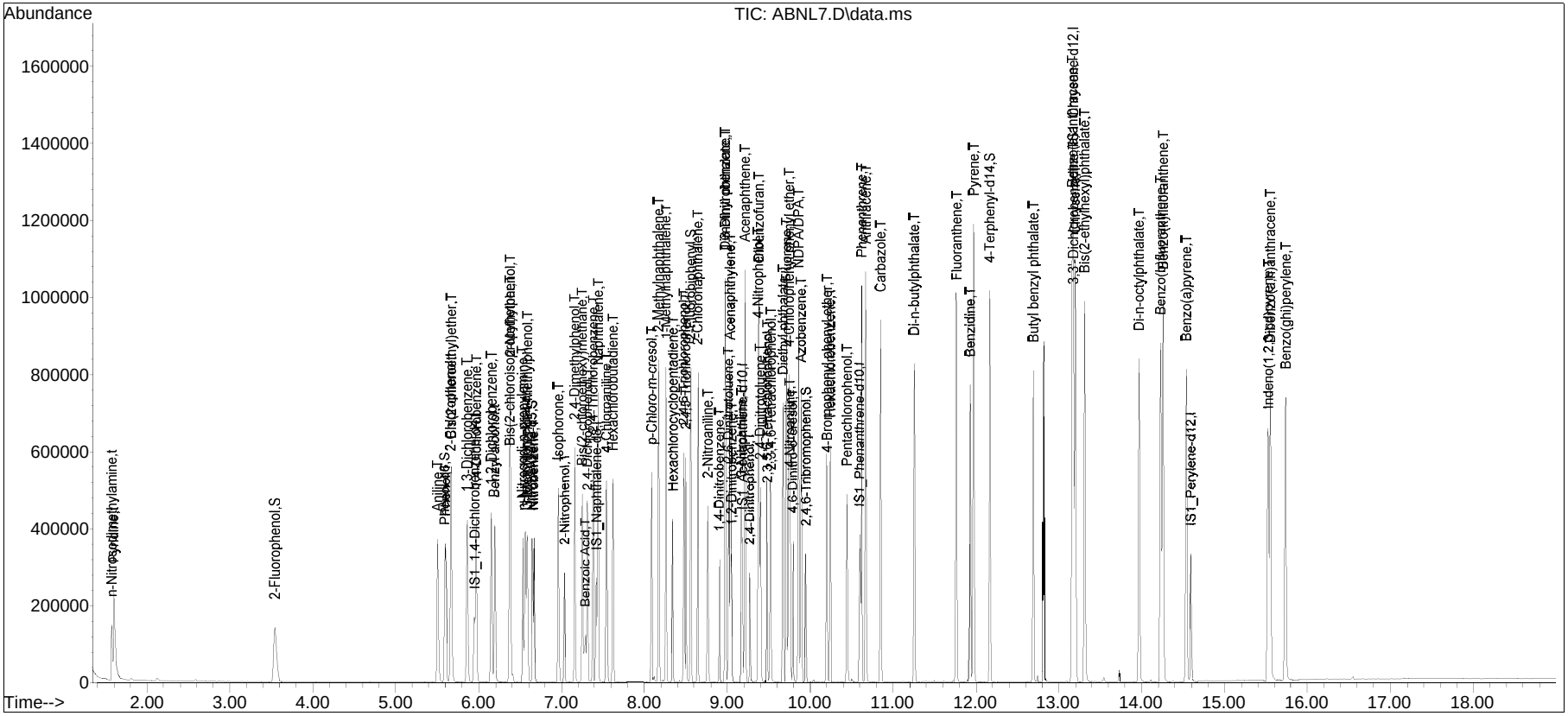
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL7.D
Acq On : 26 Oct 2023 1:39 am
Operator : SV107:cmm
Sample : IL4,32,,ABNL10 Lot# 10165
Misc : WG1845543,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 11:42:36 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

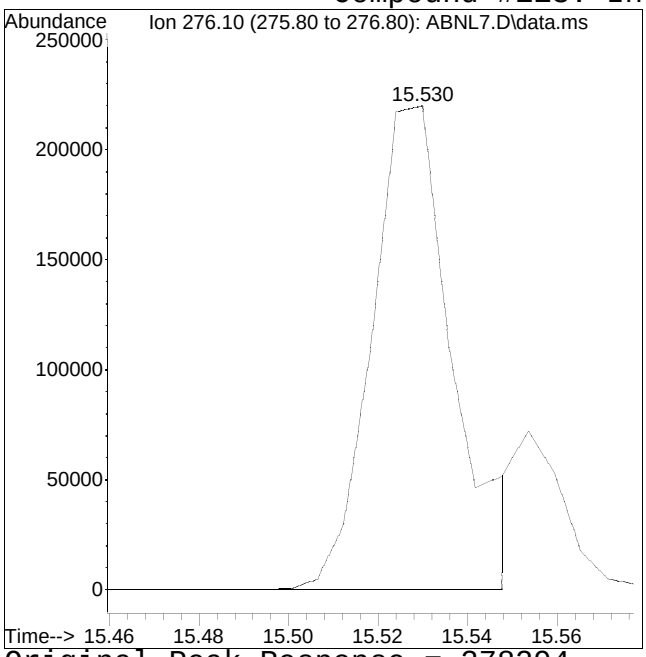
Sub List : ABNical_REV1 - ABN ical sublistNL6.D•



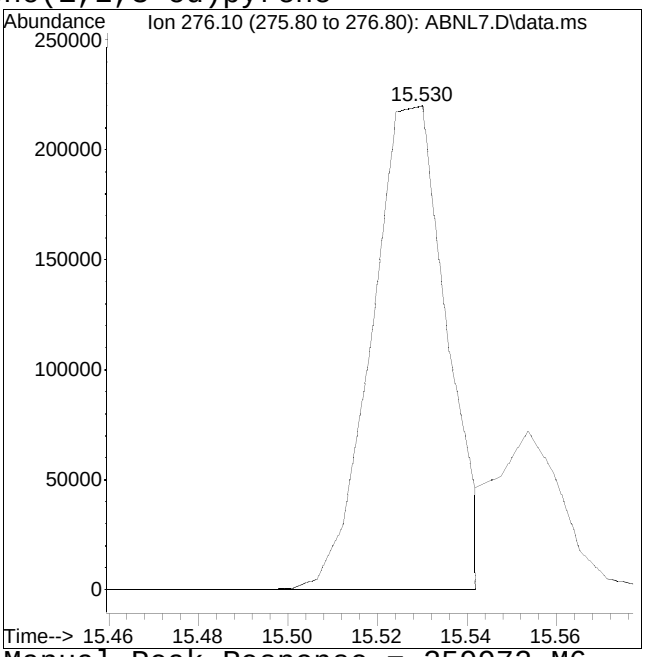
Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL7.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 1:39 am Instrument : SV107
Sample : IL4,32,,ABNL10 Lot# 10165 Quant Date : 10/27/2023 11:23 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 278294



Manual Peak Response = 259972 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL6.D
Acq On : 26 Oct 2023 2:04 am
Operator : SV107:cmm
Sample : IL5,32,,ABNL5 Lot# 10166
Misc : WG1845543,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 11:20:56 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:23 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	5.948	152	27259	4.000 ug/ml	0.00
Standard Area 1 = 27259			Recovery = 100.00%		
34) IS1_Naphthalene-d8	7.425	136	100070	4.000 ug/ml	0.00
Standard Area 1 = 100070			Recovery = 100.00%		
62) IS1_Acenaphthene-d10	9.183	164	61827	4.000 ug/ml	0.00
Standard Area 1 = 61827			Recovery = 100.00%		
87) IS1_Phenanthrene-d10	10.601	188	118484	4.000 ug/ml	# 0.00
Standard Area 1 = 118484			Recovery = 100.00%		
103) IS1_Chrysene-d12	13.171	240	97319	4.000 ug/ml	0.00
Standard Area 1 = 97319			Recovery = 100.00%		
112) IS1_Perylene-d12	14.589	264	102757	4.000 ug/ml	0.00
Standard Area 1 = 102757			Recovery = 100.00%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.548	112	36000	5.000 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 100.00%		
7) Phenol-d6	5.589	99	44382	5.000 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 100.00%		
19) Nitrobenzene-d5	6.648	82	41614	5.000 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 200.00%#		
45) 2-Fluorobiphenyl	8.560	172	98967	5.000 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 200.00%#		
78) 2,4,6-Tribromophenol	9.948	330	10343	5.000 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 100.00%		
95) 4-Terphenyl-d14	12.171	244	117490	5.000 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 200.00%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.584	74	23246	5.000 ug/ml#	78
3) Pyridine	1.613	79	42510	5.000 ug/ml	92
5) Aniline	5.513	93	59843	5.000 ug/ml	99
6) 2-Chlorophenol	5.666	128	38427	5.000 ug/ml	95
8) Phenol	5.607	94	47754	5.000 ug/ml	96
9) Bis(2-chloroethyl)ether	5.672	93	39766	5.000 ug/ml#	68
10) 1,3-Dichlorobenzene	5.860	146	45500	5.000 ug/ml	99
11) 1,4-Dichlorobenzene	5.966	146	46642	5.000 ug/ml	98
12) 1,2-Dichlorobenzene	6.154	146	44969	5.000 ug/ml	99
13) Benzyl alcohol	6.195	79	31482	5.000 ug/ml	98
14) Bis(2-chloroisopropyl)...	6.383	45	78944	5.000 ug/ml#	73

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL6.D
Acq On : 26 Oct 2023 2:04 am
Operator : SV107:cmm
Sample : IL5,32,,ABNL5 Lot# 10166
Misc : WG1845543,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 11:20:56 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:23 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.383	108	34388	5.000	ug/ml	97
16) Hexachloroethane	6.560	117	18022	5.000	ug/ml#	72
17) n-Nitrosodi-n-propylamine	6.531	70	28804	5.000	ug/ml#	91
18) 3-Methylphenol/4-Methy...	6.583	108	36509	5.000	ug/ml	98
20) Nitrobenzene	6.666	77	42650	5.000	ug/ml	99
21) Isophorone	6.960	82	75841	5.000	ug/ml	95
22) 2-Nitrophenol	7.036	139	18877	5.000	ug/ml#	97
23) 2,4-Dimethylphenol	7.160	107	39739	5.000	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.248	93	51894	5.000	ug/ml	99
25) 2,4-Dichlorophenol	7.313	162	34800	5.000	ug/ml	98
26) 1,2,4-Trichlorobenzene	7.383	180	39056	5.000	ug/ml	98
35) Naphthalene	7.442	128	120457	5.000	ug/ml	99
36) Benzoic Acid	7.266	105	21246	5.000	ug/ml	92
37) 4-Chloroaniline	7.542	65	17250	5.000	ug/ml	96
38) Hexachlorobutadiene	7.619	225	23738	5.000	ug/ml	99
39) p-Chloro-m-cresol	8.089	107	33057	5.000	ug/ml	98
40) 2-Methylnaphthalene	8.166	142	81797	5.000	ug/ml	97
41) 1-Methylnaphthalene	8.260	115	28449	5.000	ug/ml	96
42) Hexachlorocyclopentadiene	8.348	237	26563	5.000	ug/ml	99
43) 2,4,6-Trichlorophenol	8.472	196	26215	5.000	ug/ml	97
44) 2,4,5-Trichlorophenol	8.501	196	28179	5.000	ug/ml	98
46) 2-Chloronaphthalene	8.642	162	83530	5.000	ug/ml	98
47) 2-Nitroaniline	8.766	138	23114	5.000	ug/ml	99
48) 1,4-Dinitrobenzene	8.907	168	11517	5.000	ug/ml	90
49) 1,3-Dinitrobenzene	8.977	168	13360	5.000	ug/ml#	1
50) Dimethyl phthalate	8.977	163	102333	5.000	ug/ml#	98
51) Acenaphthylene	9.036	152	136695	5.000	ug/ml	99
52) 2,6-Dinitrotoluene	9.019	165	20666	5.000	ug/ml	95
53) 1,2-Dinitrobenzene	9.054	168	8695	5.000	ug/ml#	1
63) 3-Nitroaniline	9.166	138	22298	5.000	ug/ml#	96
64) Acenaphthene	9.213	154	79168	5.000	ug/ml	92
65) 2,4-Dinitrophenol	9.272	184	10605	5.000	ug/ml	94
66) Dibenzofuran	9.383	168	120640	5.000	ug/ml#	76
67) 2,4-Dinitrotoluene	9.401	165	29112	5.000	ug/ml#	89
68) 4-Nitrophenol	9.377	65	22471	5.000	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.477	232	22909	5.000	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.524	232	23430	5.000	ug/ml	98
71) Diethyl phthalate	9.666	149	100189	5.000	ug/ml	99
72) Fluorene	9.713	166	93953	5.000	ug/ml	92
73) 4-Chlorophenyl phenyl ...	9.742	204	46827	5.000	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL6.D
Acq On : 26 Oct 2023 2:04 am
Operator : SV107:cmm
Sample : IL5,32,,ABNL5 Lot# 10166
Misc : WG1845543,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 11:20:56 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:23 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.754	138	22536	5.000	ug/ml	93
75)	4,6-Dinitro-o-cresol	9.789	198	14412	5.000	ug/ml#	80
76)	NDPA/DPA	9.860	169	80451	5.000	ug/ml	95
77)	Azobenzene	9.889	77	97086	5.000	ug/ml	98
79)	4-Bromophenyl phenyl e...	10.207	248	25205	5.000	ug/ml	93
80)	Hexachlorobenzene	10.242	284	26516	5.000	ug/ml	95
81)	Pentachlorophenol	10.442	266	14935	5.000	ug/ml	97
88)	Phenanthrene	10.624	178	147889	5.000	ug/ml	99
89)	Anthracene	10.671	178	151837	5.000	ug/ml	99
90)	Carbazole	10.848	167	135306	5.000	ug/ml	99
91)	Di-n-butylphthalate	11.254	149	161780	5.000	ug/ml	99
92)	Fluoranthene	11.760	202	171625	5.000	ug/ml#	94
93)	Benzidine	11.930	184	97655	5.000	ug/ml#	96
94)	Pyrene	11.971	202	186507	5.000	ug/ml	98
96)	Butyl benzyl phthalate	12.689	149	63092	5.000	ug/ml	95
104)	Benzo(a)anthracene	13.160	228	155986	5.000	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.177	252	52109	5.000	ug/ml	98
106)	Chrysene	13.195	228	154765	5.000	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	13.312	149	98468	5.000	ug/ml#	92
108)	Di-n-octylphthalate	13.971	149	158081	5.000	ug/ml#	78
109)	Benzo(b)fluoranthene	14.230	252	148769	5.000	ug/ml	96
110)	Benzo(k)fluoranthene	14.259	252	157281	5.000	ug/ml	96
111)	Benzo(a)pyrene	14.536	252	132630	5.000	ug/ml	97
113)	Indeno(1,2,3-cd)pyrene	15.524	276	106723M6	5.000	ug/mL	
114)	Dibenzo(a,h)anthracene	15.553	278	124187	4.991	ug/ml	97
115)	Benzo(ghi)perylene	15.736	276	126934	5.000	ug/ml	95

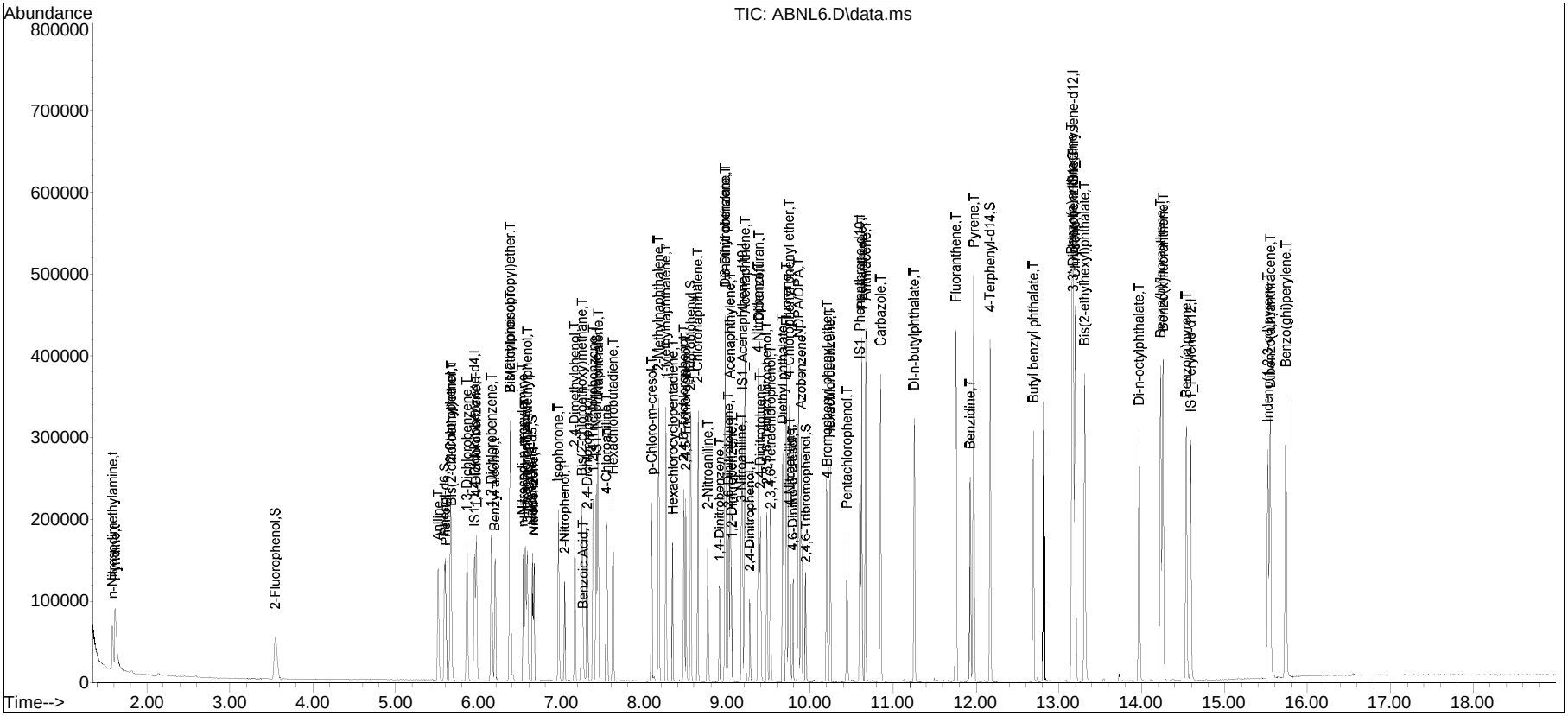
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL6.D
Acq On : 26 Oct 2023 2:04 am
Operator : SV107:cmm
Sample : IL5,32,,ABNL5 Lot# 10166
Misc : WG1845543,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 11:20:56 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:23 2023
Response via : Initial Calibration

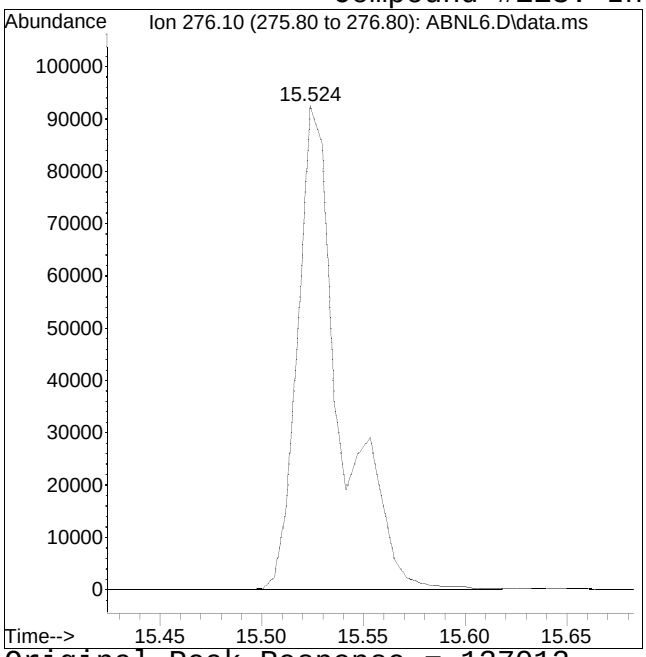
Sub List : ABNical_REV1 - ABN ical sublistNL6.D•



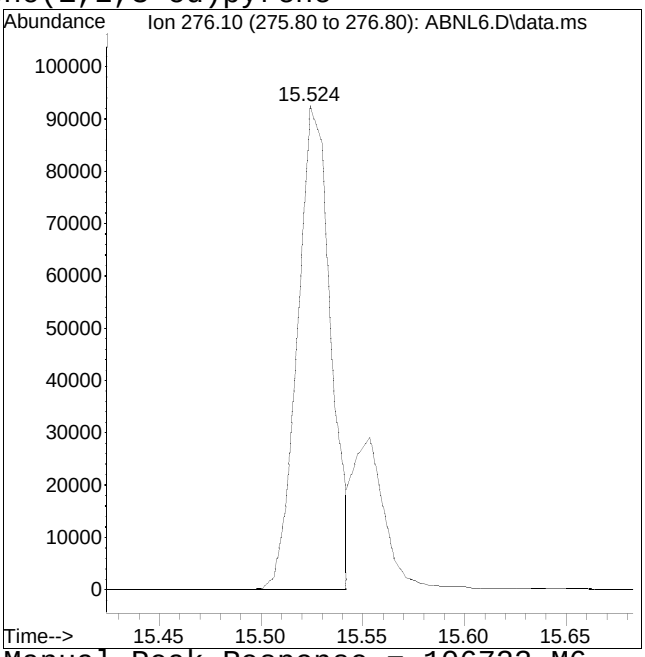
Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL6.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 2:04 am Instrument : SV107
Sample : IL5,32,,ABNL5 Lot# 10166 Quant Date : 10/27/2023 11:20 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 137012



Manual Peak Response = 106723 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL5.D
Acq On : 26 Oct 2023 2:30 am
Operator : SV107:cmm
Sample : IL6,32,,ABNL3 Lot# 10167
Misc : WG1845543,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 11:40:41 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	5.948	152	27736	4.000 ug/ml	0.00
Standard Area 1 = 27259			Recovery = 101.75%		
34) IS1_Naphthalene-d8	7.425	136	103488	4.000 ug/ml	0.00
Standard Area 1 = 100070			Recovery = 103.42%		
62) IS1_Acenaphthene-d10	9.183	164	62243	4.000 ug/ml	0.00
Standard Area 1 = 61827			Recovery = 100.67%		
87) IS1_Phenanthrene-d10	10.601	188	119349	4.000 ug/ml #	0.00
Standard Area 1 = 118484			Recovery = 100.73%		
103) IS1_Chrysene-d12	13.171	240	99138	4.000 ug/ml	0.00
Standard Area 1 = 97319			Recovery = 101.87%		
112) IS1_Perylene-d12	14.589	264	100190	4.000 ug/ml	0.00
Standard Area 1 = 102757			Recovery = 97.50%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.549	112	22229	3.034 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 60.68%		
7) Phenol-d6	5.590	99	27591	3.055 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 61.10%		
19) Nitrobenzene-d5	6.648	82	26437	3.122 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 124.88%		
45) 2-Fluorobiphenyl	8.560	172	63751	3.114 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 124.56%		
78) 2,4,6-Tribromophenol	9.948	330	6617	3.177 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 63.54%		
95) 4-Terphenyl-d14	12.171	244	70974	2.999 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 119.96%		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.578	74	14973	3.165 ug/ml#	77
3) Pyridine	1.613	79	27055	3.127 ug/ml	87
5) Aniline	5.513	93	37591	3.087 ug/ml	100
6) 2-Chlorophenol	5.666	128	24993	3.196 ug/ml	95
8) Phenol	5.607	94	30063	3.094 ug/ml	96
9) Bis(2-chloroethyl)ether	5.672	93	25085	3.100 ug/ml#	67
10) 1,3-Dichlorobenzene	5.860	146	29913	3.231 ug/ml	99
11) 1,4-Dichlorobenzene	5.966	146	30188	3.180 ug/ml	99
12) 1,2-Dichlorobenzene	6.154	146	27205	2.973 ug/ml	98
13) Benzyl alcohol	6.195	79	19370	3.023 ug/ml	95
14) Bis(2-chloroisopropyl)...	6.378	45	49885	3.105 ug/ml#	74

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL5.D
Acq On : 26 Oct 2023 2:30 am
Operator : SV107:cmm
Sample : IL6,32,,ABNL3 Lot# 10167
Misc : WG1845543,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 11:40:41 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.384	108	21476	3.069	ug/ml	96
16) Hexachloroethane	6.560	117	12024	3.279	ug/ml#	73
17) n-Nitrosodi-n-propylamine	6.531	70	18310	3.124	ug/ml#	89
18) 3-Methylphenol/4-Methy...	6.584	108	23109	3.110	ug/ml	98
20) Nitrobenzene	6.666	77	27364	3.153	ug/ml	97
21) Isophorone	6.960	82	46123	2.988	ug/ml	97
22) 2-Nitrophenol	7.037	139	11587	3.016	ug/ml#	96
23) 2,4-Dimethylphenol	7.160	107	24678	3.052	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.248	93	32859	3.112	ug/ml	99
25) 2,4-Dichlorophenol	7.313	162	22305	3.150	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.384	180	25887	3.257	ug/ml	99
35) Naphthalene	7.442	128	78320	3.144	ug/ml	99
36) Benzoic Acid	7.254	105	11830	2.692	ug/ml	90
37) 4-Chloroaniline	7.542	65	11206	3.141	ug/ml	92
38) Hexachlorobutadiene	7.619	225	14737	3.002	ug/ml	99
39) p-Chloro-m-cresol	8.089	107	20975	3.068	ug/ml	100
40) 2-Methylnaphthalene	8.166	142	52224	3.087	ug/ml	94
41) 1-Methylnaphthalene	8.260	115	18297	3.110	ug/ml	94
42) Hexachlorocyclopentadiene	8.348	237	16897	3.076	ug/ml	98
43) 2,4,6-Trichlorophenol	8.472	196	16016	2.954	ug/ml	97
44) 2,4,5-Trichlorophenol	8.501	196	17328	2.973	ug/ml	99
46) 2-Chloronaphthalene	8.642	162	53482	3.096	ug/ml	98
47) 2-Nitroaniline	8.766	138	13988	2.926	ug/ml	99
48) 1,4-Dinitrobenzene	8.907	168	6537	2.744	ug/ml	97
49) 1,3-Dinitrobenzene	8.978	168	7878	2.851	ug/ml#	1
50) Dimethyl phthalate	8.978	163	63269	2.989	ug/ml#	98
51) Acenaphthylene	9.036	152	87348	3.089	ug/ml	99
52) 2,6-Dinitrotoluene	9.019	165	12290	2.875	ug/ml	93
53) 1,2-Dinitrobenzene	9.054	168	5218	2.901	ug/ml#	1
63) 3-Nitroaniline	9.166	138	13541	3.016	ug/ml#	95
64) Acenaphthene	9.213	154	51057	3.203	ug/ml	91
65) 2,4-Dinitrophenol	9.272	184	6017	2.818	ug/ml	92
66) Dibenzofuran	9.383	168	76648	3.155	ug/ml#	78
67) 2,4-Dinitrotoluene	9.401	165	17482	2.982	ug/ml#	91
68) 4-Nitrophenol	9.378	65	13280	2.935	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.478	232	13847	3.002	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	9.519	232	14402	3.053	ug/ml	99
71) Diethyl phthalate	9.666	149	61818	3.064	ug/ml	99
72) Fluorene	9.713	166	59556	3.148	ug/ml	91
73) 4-Chlorophenyl phenyl ...	9.742	204	30618	3.247	ug/ml	95

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL5.D
Acq On : 26 Oct 2023 2:30 am
Operator : SV107:cmm
Sample : IL6,32,,ABNL3 Lot# 10167
Misc : WG1845543,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 11:40:41 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	9.754	138	13189	2.907	ug/ml#	93
75) 4,6-Dinitro-o-cresol	9.789	198	8257	2.845	ug/ml#	79
76) NDPA/DPA	9.860	169	51258	3.164	ug/ml	96
77) Azobenzene	9.889	77	60810	3.111	ug/ml	99
79) 4-Bromophenyl phenyl e...	10.207	248	15216	2.998	ug/ml	94
80) Hexachlorobenzene	10.242	284	16667	3.122	ug/ml	95
81) Pentachlorophenol	10.442	266	8168	2.716	ug/ml	94
88) Phenanthrene	10.624	178	94875	3.184	ug/ml	100
89) Anthracene	10.672	178	94679	3.095	ug/ml	99
90) Carbazole	10.848	167	84402	3.096	ug/ml	99
91) Di-n-butylphthalate	11.254	149	94603	2.903	ug/ml	99
92) Fluoranthene	11.760	202	107048	3.096	ug/ml#	94
93) Benzidine	11.930	184	56363	2.865	ug/ml#	96
94) Pyrene	11.971	202	115579	3.076	ug/ml	99
96) Butyl benzyl phthalate	12.689	149	36771	2.893	ug/ml	96
104) Benzo(a)anthracene	13.160	228	99446	3.129	ug/ml	99
105) 3,3'-Dichlorobenzidine	13.177	252	32472	3.059	ug/ml	97
106) Chrysene	13.195	228	100598	3.190	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.313	149	58734	2.928	ug/ml	92
108) Di-n-octylphthalate	13.971	149	85335	2.650	ug/ml#	79
109) Benzo(b)fluoranthene	14.230	252	87229	2.878	ug/ml	96
110) Benzo(k)fluoranthene	14.254	252	93586	2.921	ug/ml#	96
111) Benzo(a)pyrene	14.536	252	77078	2.852	ug/ml	97
113) Indeno(1,2,3-cd)pyrene	15.524	276	64988	3.123	ug/mL	96
114) Dibenzo(a,h)anthracene	15.554	278	75172	3.099	ug/ml	96
115) Benzo(ghi)perylene	15.736	276	76585	3.094	ug/ml	96

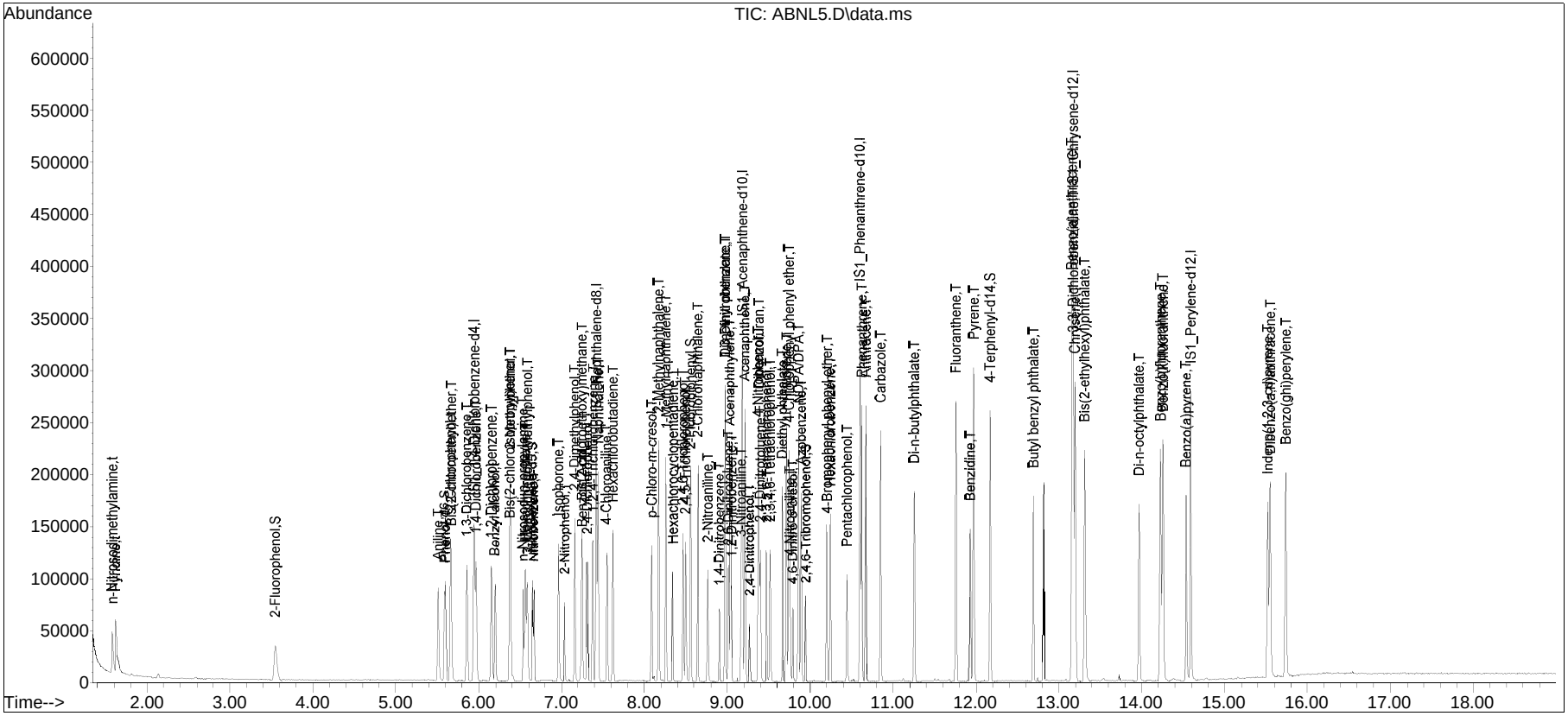
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL5.D
Acq On : 26 Oct 2023 2:30 am
Operator : SV107:cmm
Sample : IL6,32,,ABNL3 Lot# 10167
Misc : WG1845543,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 11:40:41 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : ABNical_REV1 - ABN ical sublistNL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ABNL5.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 2:30 am	Instrument	: SV107
Sample	: IL6,32,,ABNL3 Lot# 10167	Quant Date	: 10/27/2023 11:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL4.D
Acq On : 26 Oct 2023 2:56 am
Operator : SV107:cmm
Sample : IL7,32,,ABNL2 Lot# 10168
Misc : WG1845543,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 11:39:23 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	5.948	152	26065	4.000 ug/ml	0.00
Standard Area 1 = 27259			Recovery = 95.62%		
34) IS1_Naphthalene-d8	7.425	136	99784	4.000 ug/ml	0.00
Standard Area 1 = 100070			Recovery = 99.71%		
62) IS1_Acenaphthene-d10	9.183	164	57729	4.000 ug/ml	0.00
Standard Area 1 = 61827			Recovery = 93.37%		
87) IS1_Phenanthrene-d10	10.601	188	111695	4.000 ug/ml	# 0.00
Standard Area 1 = 118484			Recovery = 94.27%		
103) IS1_Chrysene-d12	13.171	240	91853	4.000 ug/ml	0.00
Standard Area 1 = 97319			Recovery = 94.38%		
112) IS1_Perylene-d12	14.589	264	97929	4.000 ug/ml	0.00
Standard Area 1 = 102757			Recovery = 95.30%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.548	112	13987	2.032 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 40.64%		
7) Phenol-d6	5.589	99	17267	2.034 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 40.68%		
19) Nitrobenzene-d5	6.648	82	16773	2.108 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 84.32%		
45) 2-Fluorobiphenyl	8.560	172	39317	1.992 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 79.68%		
78) 2,4,6-Tribromophenol	9.948	330	3931	2.035 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 40.70%		
95) 4-Terphenyl-d14	12.171	244	46290	2.090 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 83.60%		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.584	74	9793	2.203 ug/ml#	77
3) Pyridine	1.619	79	17986	2.212 ug/ml	90
5) Aniline	5.513	93	23377	2.043 ug/ml	97
6) 2-Chlorophenol	5.666	128	15646	2.129 ug/ml	94
8) Phenol	5.607	94	19379	2.122 ug/ml	95
9) Bis(2-chloroethyl)ether	5.672	93	15933	2.095 ug/ml#	64
10) 1,3-Dichlorobenzene	5.860	146	19925	2.290 ug/ml	99
11) 1,4-Dichlorobenzene	5.966	146	19717	2.210 ug/ml	98
12) 1,2-Dichlorobenzene	6.154	146	18794	2.185 ug/ml	99
13) Benzyl alcohol	6.195	79	12482	2.073 ug/ml	95
14) Bis(2-chloroisopropyl)...	6.383	45	32364	2.144 ug/ml#	75

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL4.D
Acq On : 26 Oct 2023 2:56 am
Operator : SV107:cmm
Sample : IL7,32,,ABNL2 Lot# 10168
Misc : WG1845543,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 11:39:23 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.383	108	13243	2.014	ug/ml	97
16) Hexachloroethane	6.560	117	7677	2.227	ug/ml#	76
17) n-Nitrosodi-n-propylamine	6.536	70	11342	2.059	ug/ml#	89
18) 3-Methylphenol/4-Methy...	6.583	108	14171	2.030	ug/ml	99
20) Nitrobenzene	6.672	77	16895	2.071	ug/ml	100
21) Isophorone	6.960	82	29032	2.002	ug/ml	96
22) 2-Nitrophenol	7.036	139	7171	1.986	ug/ml	97
23) 2,4-Dimethylphenol	7.160	107	15476	2.036	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.254	93	20554	2.071	ug/ml	97
25) 2,4-Dichlorophenol	7.313	162	14066	2.114	ug/ml	94
26) 1,2,4-Trichlorobenzene	7.383	180	17045	2.282	ug/ml	98
35) Naphthalene	7.442	128	50754	2.113	ug/ml	99
36) Benzoic Acid	7.242	105	6464	1.526	ug/ml	96
37) 4-Chloroaniline	7.548	65	6732	1.957	ug/ml	99
38) Hexachlorobutadiene	7.619	225	9937	2.099	ug/ml	95
39) p-Chloro-m-cresol	8.089	107	13430	2.037	ug/ml	96
40) 2-Methylnaphthalene	8.166	142	33197	2.035	ug/ml	95
41) 1-Methylnaphthalene	8.260	115	11879	2.094	ug/ml	93
42) Hexachlorocyclopentadiene	8.348	237	10279	1.940	ug/ml	92
43) 2,4,6-Trichlorophenol	8.472	196	9291	1.777	ug/ml	95
44) 2,4,5-Trichlorophenol	8.501	196	10479	1.865	ug/ml	97
46) 2-Chloronaphthalene	8.642	162	32903	1.975	ug/ml	98
47) 2-Nitroaniline	8.766	138	7812	1.695	ug/ml	95
48) 1,4-Dinitrobenzene	8.907	168	3834	1.669	ug/ml	99
49) 1,3-Dinitrobenzene	8.977	168	4671	1.753	ug/ml#	1
50) Dimethyl phthalate	8.977	163	39769	1.949	ug/ml#	99
51) Acenaphthylene	9.036	152	54859	2.012	ug/ml	99
52) 2,6-Dinitrotoluene	9.019	165	7385	1.792	ug/ml	92
53) 1,2-Dinitrobenzene	9.054	168	3323	1.916	ug/ml#	1
63) 3-Nitroaniline	9.166	138	8016	1.925	ug/ml#	87
64) Acenaphthene	9.213	154	31113	2.104	ug/ml	88
65) 2,4-Dinitrophenol	9.272	184	3127	1.579	ug/ml	93
66) Dibenzofuran	9.383	168	49546	2.199	ug/ml#	82
67) 2,4-Dinitrotoluene	9.401	165	10568	1.944	ug/ml	94
68) 4-Nitrophenol	9.377	65	7895	1.881	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.483	232	8087	1.890	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.524	232	8537	1.951	ug/ml	97
71) Diethyl phthalate	9.666	149	38320	2.048	ug/ml	99
72) Fluorene	9.713	166	37754	2.152	ug/ml	94
73) 4-Chlorophenyl phenyl ...	9.742	204	19019	2.175	ug/ml	97

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL4.D
Acq On : 26 Oct 2023 2:56 am
Operator : SV107:cmm
Sample : IL7,32,,ABNL2 Lot# 10168
Misc : WG1845543,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 11:39:23 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	9.754	138	7893	1.876	ug/ml#	91
75) 4,6-Dinitro-o-cresol	9.789	198	4773	1.773	ug/ml	85
76) NDPA/DPA	9.860	169	31341	2.086	ug/ml	94
77) Azobenzene	9.889	77	38047	2.099	ug/ml	99
79) 4-Bromophenyl phenyl e...	10.207	248	9637	2.047	ug/ml	98
80) Hexachlorobenzene	10.242	284	10220	2.064	ug/ml#	92
81) Pentachlorophenol	10.442	266	4895	1.755	ug/ml	96
88) Phenanthrene	10.624	178	59179	2.122	ug/ml	99
89) Anthracene	10.671	178	58251	2.035	ug/ml	99
90) Carbazole	10.848	167	51601	2.023	ug/ml	98
91) Di-n-butylphthalate	11.254	149	57105	1.872	ug/ml	100
92) Fluoranthene	11.760	202	65238	2.016	ug/ml#	93
93) Benzidine	11.930	184	31339	1.702	ug/ml	98
94) Pyrene	11.971	202	71162	2.024	ug/ml	99
96) Butyl benzyl phthalate	12.689	149	21342	1.794	ug/ml	97
104) Benzo(a)anthracene	13.160	228	60901	2.068	ug/ml	99
105) 3,3'-Dichlorobenzidine	13.177	252	18683	1.899	ug/ml	99
106) Chrysene	13.195	228	61835	2.117	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	13.312	149	33849	1.821	ug/ml#	91
108) Di-n-octylphthalate	13.971	149	49296	1.652	ug/ml#	79
109) Benzo(b)fluoranthene	14.230	252	57425	2.045	ug/ml	98
110) Benzo(k)fluoranthene	14.254	252	59246	1.996	ug/ml#	96
111) Benzo(a)pyrene	14.536	252	48734	1.947	ug/ml#	96
113) Indeno(1,2,3-cd)pyrene	15.524	276	40508	1.991	ug/mL	97
114) Dibenzo(a,h)anthracene	15.553	278	47259	1.993	ug/ml	97
115) Benzo(ghi)perylene	15.736	276	48820	2.018	ug/ml	96

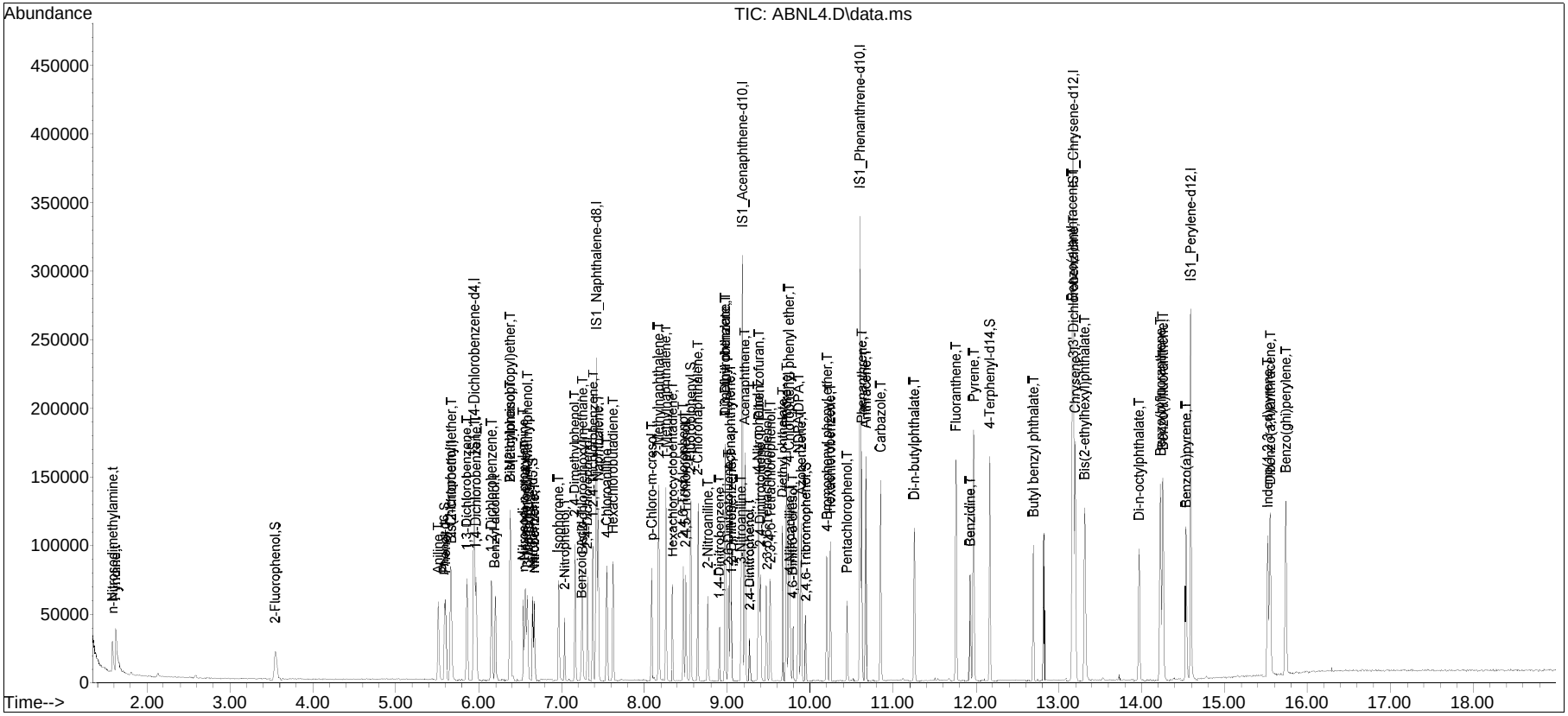
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL4.D
Acq On : 26 Oct 2023 2:56 am
Operator : SV107:cmm
Sample : IL7,32,,ABNL2 Lot# 10168
Misc : WG1845543,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 11:39:23 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : ABNical_REV1 - ABN ical sublistNL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ABNL4.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 2:56 am	Instrument	: SV107
Sample	: IL7,32,,ABNL2 Lot# 10168	Quant Date	: 10/27/2023 11:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL3.D
Acq On : 26 Oct 2023 3:21 am
Operator : SV107:cmm
Sample : IL8,32,,ABNL1 Lot# 10169
Misc : WG1845543,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 11:37:50 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	5.948	152	26446	4.000 ug/ml	0.00
Standard Area 1 = 27259			Recovery = 97.02%		
34) IS1_Naphthalene-d8	7.425	136	100642	4.000 ug/ml	0.00
Standard Area 1 = 100070			Recovery = 100.57%		
62) IS1_Acenaphthene-d10	9.183	164	57359	4.000 ug/ml	0.00
Standard Area 1 = 61827			Recovery = 92.77%		
87) IS1_Phenanthrene-d10	10.601	188	114662	4.000 ug/ml	# 0.00
Standard Area 1 = 118484			Recovery = 96.77%		
103) IS1_Chrysene-d12	13.171	240	94770	4.000 ug/ml	0.00
Standard Area 1 = 97319			Recovery = 97.38%		
112) IS1_Perylene-d12	14.589	264	96526	4.000 ug/ml	0.00
Standard Area 1 = 102757			Recovery = 93.94%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.548	112	6928	0.992 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 19.84%		
7) Phenol-d6	5.589	99	8790	1.021 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 20.42%		
19) Nitrobenzene-d5	6.648	82	8103	1.004 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 40.16%		
45) 2-Fluorobiphenyl	8.560	172	20856	1.048 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 41.92%		
78) 2,4,6-Tribromophenol	9.948	330	1885	0.982 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 19.64%		
95) 4-Terphenyl-d14	12.171	244	22915	1.008 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 40.32%		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.584	74	4865	1.079 ug/ml#	76
3) Pyridine	1.631	79	9623	1.167 ug/ml	80
5) Aniline	5.513	93	11852	1.021 ug/ml	98
6) 2-Chlorophenol	5.666	128	7719	1.035 ug/ml	94
8) Phenol	5.607	94	9390	1.013 ug/ml	95
9) Bis(2-chloroethyl)ether	5.678	93	8054	1.044 ug/ml#	70
10) 1,3-Dichlorobenzene	5.860	146	9615	1.089 ug/ml	98
11) 1,4-Dichlorobenzene	5.966	146	9838	1.087 ug/ml	96
12) 1,2-Dichlorobenzene	6.160	146	9340	1.070 ug/ml	99
13) Benzyl alcohol	6.195	79	5818	0.952 ug/ml	98
14) Bis(2-chloroisopropyl)...	6.383	45	16550	1.080 ug/ml#	77

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL3.D
Acq On : 26 Oct 2023 3:21 am
Operator : SV107:cmm
Sample : IL8,32,,ABNL1 Lot# 10169
Misc : WG1845543,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 11:37:50 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.383	108	6533	0.979	ug/ml	96
16) Hexachloroethane	6.560	117	3794	1.085	ug/ml#	71
17) n-Nitrosodi-n-propylamine	6.536	70	5574	0.997	ug/ml#	84
18) 3-Methylphenol/4-Methy...	6.583	108	6873	0.970	ug/ml	94
20) Nitrobenzene	6.672	77	8656	1.046	ug/ml	93
21) Isophorone	6.966	82	14183	0.964	ug/ml#	92
22) 2-Nitrophenol	7.036	139	3419	0.933	ug/ml	95
23) 2,4-Dimethylphenol	7.160	107	7460	0.967	ug/ml	97
24) Bis(2-chloroethoxy)met...	7.254	93	10371	1.030	ug/ml#	97
25) 2,4-Dichlorophenol	7.313	162	6508	0.964	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.383	180	8584	1.133	ug/ml	98
35) Naphthalene	7.442	128	26079	1.076	ug/ml	98
36) Benzoic Acid	7.236	105	2491	0.583	ug/ml	89
37) 4-Chloroaniline	7.548	65	3291	0.948	ug/ml	92
38) Hexachlorobutadiene	7.619	225	5278	1.105	ug/ml	94
39) p-Chloro-m-cresol	8.089	107	6254	0.941	ug/ml	96
40) 2-Methylnaphthalene	8.166	142	16594	1.009	ug/ml	97
41) 1-Methylnaphthalene	8.260	115	5664	0.990	ug/ml	97
42) Hexachlorocyclopentadiene	8.348	237	4952	0.927	ug/ml	88
43) 2,4,6-Trichlorophenol	8.472	196	4678	0.887	ug/ml	94
44) 2,4,5-Trichlorophenol	8.507	196	5175	0.913	ug/ml	95
46) 2-Chloronaphthalene	8.642	162	17235	1.026	ug/ml	98
47) 2-Nitroaniline	8.766	138	3891	0.837	ug/ml	95
48) 1,4-Dinitrobenzene	8.907	168	1637	0.707	ug/ml	93
49) 1,3-Dinitrobenzene	8.977	168	2062	0.767	ug/ml#	1
50) Dimethyl phthalate	8.977	163	20137	0.978	ug/ml#	97
51) Acenaphthylene	9.036	152	26177	0.952	ug/ml	99
52) 2,6-Dinitrotoluene	9.019	165	3148	0.757	ug/ml	97
53) 1,2-Dinitrobenzene	9.054	168	1507	0.862	ug/ml#	1
63) 3-Nitroaniline	9.172	138	3419	0.826	ug/ml#	76
64) Acenaphthene	9.213	154	16478	1.122	ug/ml	91
65) 2,4-Dinitrophenol	9.271	184	1146	0.582	ug/ml	95
66) Dibenzofuran	9.383	168	24700	1.103	ug/ml#	86
67) 2,4-Dinitrotoluene	9.401	165	4485	0.830	ug/ml	89
68) 4-Nitrophenol	9.377	65	3635	0.872	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.483	232	3788	0.891	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.524	232	4063	0.935	ug/ml	97
71) Diethyl phthalate	9.666	149	19366	1.042	ug/ml	99
72) Fluorene	9.713	166	19076	1.094	ug/ml	93
73) 4-Chlorophenyl phenyl ...	9.742	204	9849	1.134	ug/ml	96

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL3.D
Acq On : 26 Oct 2023 3:21 am
Operator : SV107:cmm
Sample : IL8,32,,ABNL1 Lot# 10169
Misc : WG1845543,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 11:37:50 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.754	138	3449	0.825	ug/ml#	82
75)	4,6-Dinitro-o-cresol	9.789	198	2034	0.761	ug/ml#	83
76)	NDPA/DPA	9.860	169	15277	1.023	ug/ml	93
77)	Azobenzene	9.889	77	18124	1.006	ug/ml	97
79)	4-Bromophenyl phenyl e...	10.207	248	5215	1.115	ug/ml	89
80)	Hexachlorobenzene	10.242	284	5543	1.127	ug/ml	91
81)	Pentachlorophenol	10.442	266	2005	0.724	ug/ml	94
88)	Phenanthrene	10.624	178	31181	1.089	ug/ml	98
89)	Anthracene	10.671	178	29361	0.999	ug/ml	99
90)	Carbazole	10.848	167	24814	0.948	ug/ml	99
91)	Di-n-butylphthalate	11.254	149	28160	0.899	ug/ml	99
92)	Fluoranthene	11.760	202	33073	0.996	ug/ml#	94
93)	Benzidine	11.930	184	14424	0.763	ug/ml#	97
94)	Pyrene	11.971	202	35594	0.986	ug/ml	98
96)	Butyl benzyl phthalate	12.689	149	10044	0.823	ug/ml	97
104)	Benzo(a)anthracene	13.159	228	30583	1.007	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.177	252	8380	0.826	ug/ml	98
106)	Chrysene	13.195	228	31545	1.047	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.312	149	15382	0.802	ug/ml	93
108)	Di-n-octylphthalate	13.971	149	22236	0.722	ug/ml#	80
109)	Benzo(b)fluoranthene	14.230	252	28358	0.979	ug/ml#	96
110)	Benzo(k)fluoranthene	14.254	252	28710	0.937	ug/ml#	95
111)	Benzo(a)pyrene	14.536	252	24204	0.937	ug/ml	96
113)	Indeno(1,2,3-cd)pyrene	15.524	276	19907	0.993	ug/mL	96
114)	Dibenzo(a,h)anthracene	15.553	278	22394	0.958	ug/ml	96
115)	Benzo(ghi)perylene	15.736	276	23502	0.986	ug/ml	98

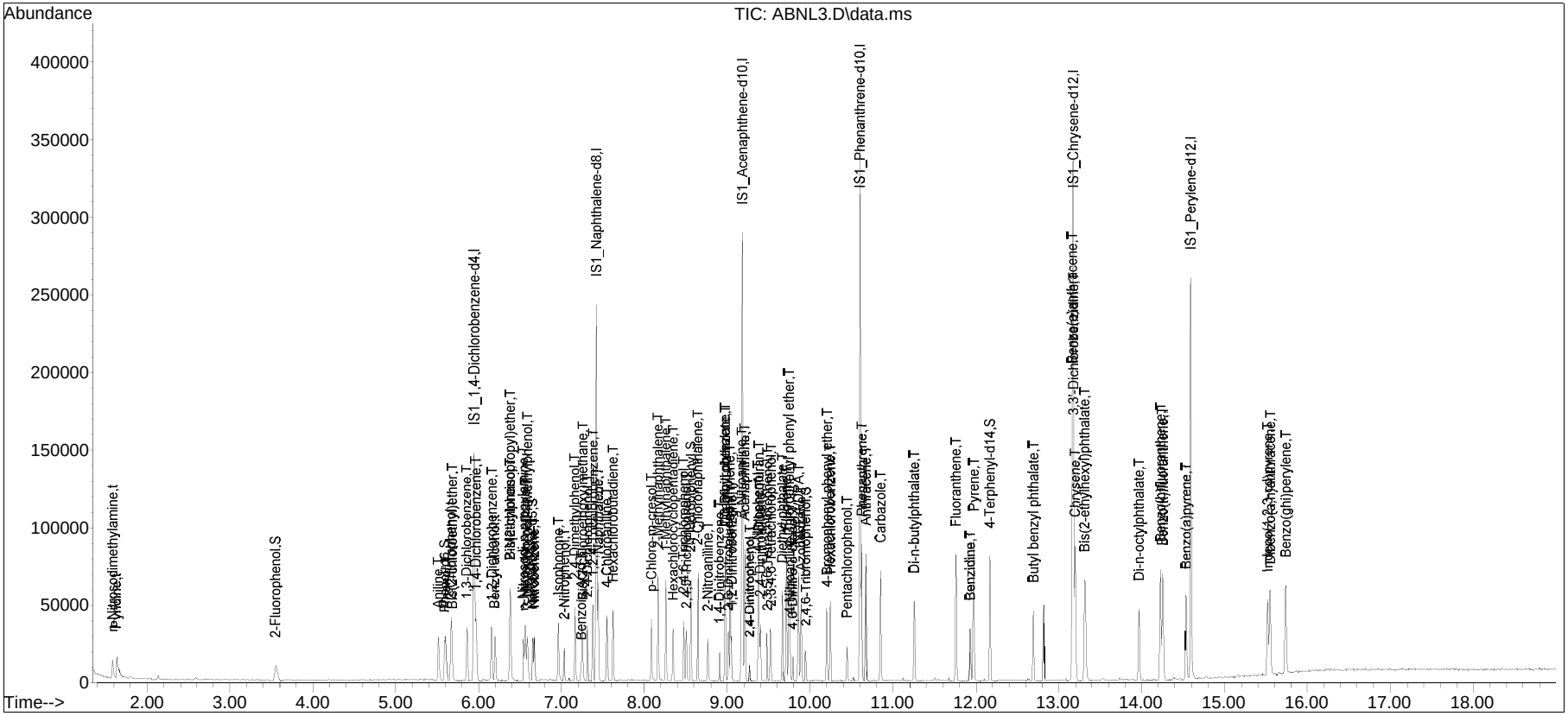
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL3.D
Acq On : 26 Oct 2023 3:21 am
Operator : SV107:cmm
Sample : IL8,32,,ABNL1 Lot# 10169
Misc : WG1845543,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 11:37:50 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : ABNical_REV1 - ABN ical sublistNL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ABNL3.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 3:21 am	Instrument	: SV107
Sample	: IL8,32,,ABNL1 Lot# 10169	Quant Date	: 10/27/2023 11:22 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL2.D
Acq On : 26 Oct 2023 3:47 am
Operator : SV107:cmm
Sample : IL9,32,,ABNL0.4 Lot# 10170
Misc : WG1845543,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 11:35:40 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	5.948	152	25411	4.000 ug/ml	0.00
Standard Area 1 = 27259			Recovery = 93.22%		
34) IS1_Naphthalene-d8	7.425	136	96284	4.000 ug/ml	0.00
Standard Area 1 = 100070			Recovery = 96.22%		
62) IS1_Acenaphthene-d10	9.183	164	56761	4.000 ug/ml	0.00
Standard Area 1 = 61827			Recovery = 91.81%		
87) IS1_Phenanthrene-d10	10.601	188	112611	4.000 ug/ml	# 0.00
Standard Area 1 = 118484			Recovery = 95.04%		
103) IS1_Chrysene-d12	13.171	240	87922	4.000 ug/ml	0.00
Standard Area 1 = 97319			Recovery = 90.34%		
112) IS1_Perylene-d12	14.589	264	89667	4.000 ug/ml	0.00
Standard Area 1 = 102757			Recovery = 87.26%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.560	112	2294	0.342 ug/ml	0.01
Spiked Amount 5.000	Range 15 - 110		Recovery = 6.84%#		
7) Phenol-d6	5.595	99	2864	0.346 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 6.92%#		
19) Nitrobenzene-d5	6.654	82	3033	0.391 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 15.64%#		
45) 2-Fluorobiphenyl	8.560	172	7575	0.398 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 15.92%#		
78) 2,4,6-Tribromophenol	9.948	330	562	0.296 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 5.92%#		
95) 4-Terphenyl-d14	12.172	244	8607	0.385 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 15.40%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.590	74	1598	0.369 ug/ml#	80
3) Pyridine	1.660	79	2765	0.349 ug/ml	96
5) Aniline	5.519	93	3934	0.353 ug/ml	95
6) 2-Chlorophenol	5.672	128	2684	0.375 ug/ml#	84
8) Phenol	5.607	94	3244	0.364 ug/ml	98
9) Bis(2-chloroethyl)ether	5.678	93	2965	0.400 ug/ml#	69
10) 1,3-Dichlorobenzene	5.866	146	3617	0.426 ug/ml	96
11) 1,4-Dichlorobenzene	5.972	146	3618	0.416 ug/ml	94
12) 1,2-Dichlorobenzene	6.160	146	3605	0.430 ug/ml	97
13) Benzyl alcohol	6.201	79	2055	0.350 ug/ml	92
14) Bis(2-chloroisopropyl)...	6.390	45	6221	0.423 ug/ml#	81

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL2.D
Acq On : 26 Oct 2023 3:47 am
Operator : SV107:cmm
Sample : IL9,32,,ABNL0.4 Lot# 10170
Misc : WG1845543,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 11:35:40 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.390	108	2267	0.354	ug/ml	94
16) Hexachloroethane	6.560	117	1410	0.420	ug/ml#	74
17) n-Nitrosodi-n-propylamine	6.542	70	1957	0.364	ug/ml#	59
18) 3-Methylphenol/4-Methy...	6.584	108	2514	0.369	ug/ml#	94
20) Nitrobenzene	6.672	77	3104	0.390	ug/ml#	88
21) Isophorone	6.972	82	5130	0.363	ug/ml#	87
22) 2-Nitrophenol	7.037	139	1003	0.285	ug/ml#	76
23) 2,4-Dimethylphenol	7.160	107	2421	0.327	ug/ml	93
24) Bis(2-chloroethoxy)met...	7.254	93	3801	0.393	ug/ml#	85
25) 2,4-Dichlorophenol	7.313	162	2359	0.364	ug/ml	93
26) 1,2,4-Trichlorobenzene	7.384	180	3188	0.438	ug/ml	98
35) Naphthalene	7.442	128	9273	0.400	ug/ml	97
36) Benzoic Acid	7.237	105	270M2	0.066	ug/ml	
37) 4-Chloroaniline	7.548	65	1133	0.341	ug/ml	98
38) Hexachlorobutadiene	7.619	225	2117	0.463	ug/ml#	87
39) p-Chloro-m-cresol	8.089	107	2075	0.326	ug/ml	94
40) 2-Methylnaphthalene	8.166	142	6134	0.390	ug/ml	98
41) 1-Methylnaphthalene	8.260	115	2029	0.371	ug/ml	95
42) Hexachlorocyclopentadiene	8.348	237	1993	0.390	ug/ml#	95
43) 2,4,6-Trichlorophenol	8.472	196	1609	0.319	ug/ml	94
44) 2,4,5-Trichlorophenol	8.507	196	1664	0.307	ug/ml	98
46) 2-Chloronaphthalene	8.642	162	6382	0.397	ug/ml	98
47) 2-Nitroaniline	8.766	138	1326	0.298	ug/ml	92
48) 1,4-Dinitrobenzene	8.907	168	584	0.264	ug/ml	96
49) 1,3-Dinitrobenzene	8.978	168	670	0.261	ug/ml#	1
50) Dimethyl phthalate	8.978	163	7396	0.376	ug/ml#	95
51) Acenaphthylene	9.036	152	9548	0.363	ug/ml	98
52) 2,6-Dinitrotoluene	9.019	165	1104	0.278	ug/ml	98
53) 1,2-Dinitrobenzene	9.060	168	461	0.276	ug/ml#	1
63) 3-Nitroaniline	9.172	138	1108	0.271	ug/ml#	43
64) Acenaphthene	9.213	154	6076	0.418	ug/ml	88
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.383	168	9241	0.417	ug/ml#	86
67) 2,4-Dinitrotoluene	9.401	165	1310	0.245	ug/ml#	88
68) 4-Nitrophenol	9.378	65	1059	0.257	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.483	232	1306	0.310	ug/ml	90
70) 2,3,4,6-Tetrachlorophenol	9.525	232	1142	0.265	ug/ml	88
71) Diethyl phthalate	9.666	149	6597	0.359	ug/ml	97
72) Fluorene	9.713	166	6924	0.401	ug/ml	89
73) 4-Chlorophenyl phenyl ...	9.742	204	3773	0.439	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL2.D
Acq On : 26 Oct 2023 3:47 am
Operator : SV107:cmm
Sample : IL9,32,,ABNL0.4 Lot# 10170
Misc : WG1845543,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 11:35:40 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.754	138	1015	0.245	ug/ml#	76
75)	4,6-Dinitro-o-cresol	9.789	198	512	0.193	ug/ml#	45
76)	NDPA/DPA	9.860	169	5421	0.367	ug/ml	97
77)	Azobenzene	9.889	77	6719	0.377	ug/ml	96
79)	4-Bromophenyl phenyl e...	10.207	248	1958	0.423	ug/ml	89
80)	Hexachlorobenzene	10.242	284	1979	0.406	ug/ml	97
81)	Pentachlorophenol	10.442	266	683	0.249	ug/ml#	58
88)	Phenanthrene	10.625	178	12067	0.429	ug/ml	98
89)	Anthracene	10.672	178	11032	0.382	ug/ml	98
90)	Carbazole	10.848	167	9301	0.362	ug/ml	97
91)	Di-n-butylphthalate	11.254	149	9915	0.322	ug/ml#	98
92)	Fluoranthene	11.760	202	12265	0.376	ug/ml#	93
93)	Benzidine	11.930	184	4705	0.253	ug/ml#	85
94)	Pyrene	11.972	202	13405	0.378	ug/ml	98
96)	Butyl benzyl phthalate	12.689	149	3570	0.298	ug/ml	95
104)	Benzo(a)anthracene	13.160	228	11109	0.394	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.177	252	2638	0.280	ug/ml	100
106)	Chrysene	13.195	228	11870	0.424	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	13.313	149	5090	0.286	ug/ml#	88
108)	Di-n-octylphthalate	13.971	149	7263	0.254	ug/ml#	83
109)	Benzo(b)fluoranthene	14.230	252	9772	0.364	ug/ml	98
110)	Benzo(k)fluoranthene	14.254	252	9411	0.331	ug/ml	98
111)	Benzo(a)pyrene	14.530	252	8239	0.344	ug/ml	96
113)	Indeno(1,2,3-cd)pyrene	15.524	276	6712	0.360	ug/mL	99
114)	Dibenzo(a,h)anthracene	15.554	278	7671	0.353	ug/ml	98
115)	Benzo(ghi)perylene	15.736	276	8363	0.378	ug/ml	94

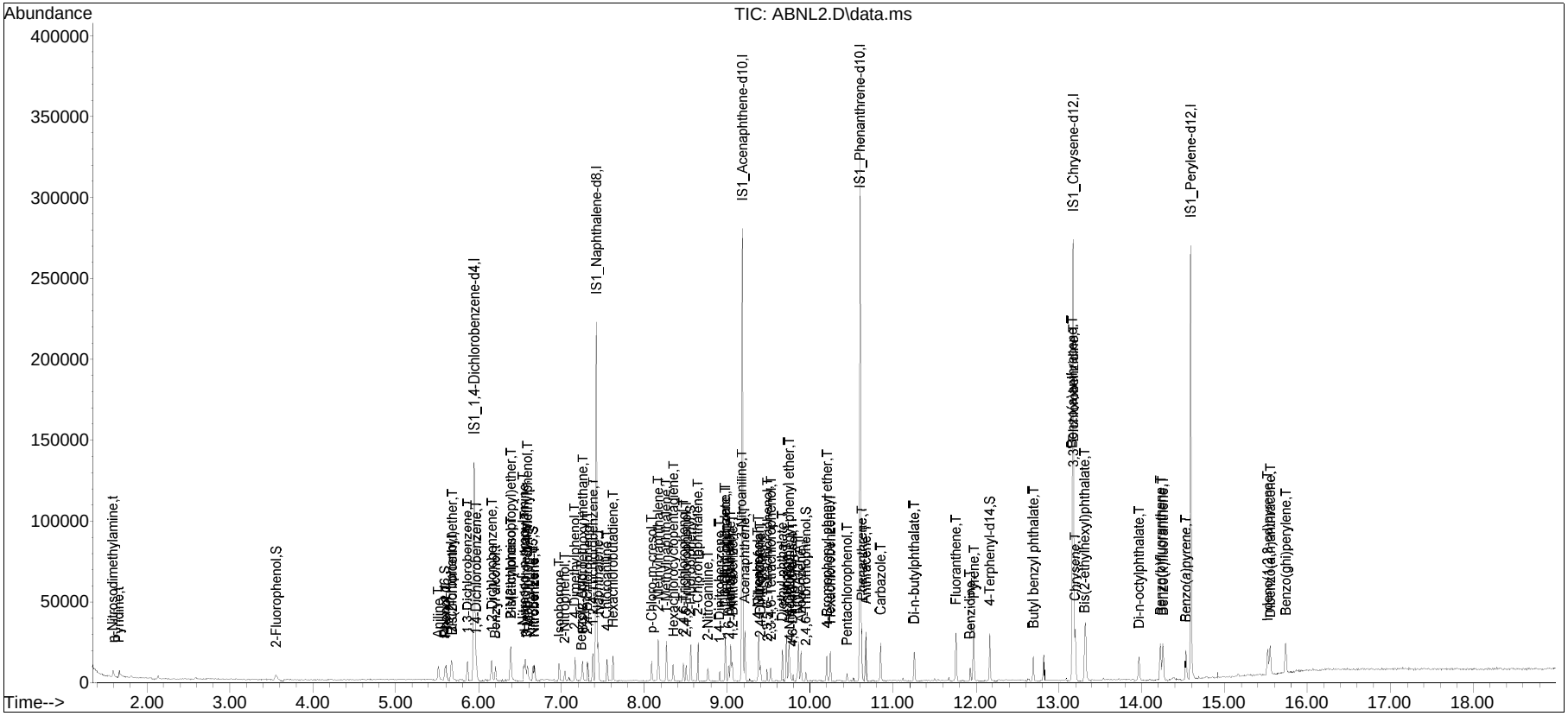
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL2.D
Acq On : 26 Oct 2023 3:47 am
Operator : SV107:cmm
Sample : IL9,32,,ABNL0.4 Lot# 10170
Misc : WG1845543,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 11:35:40 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

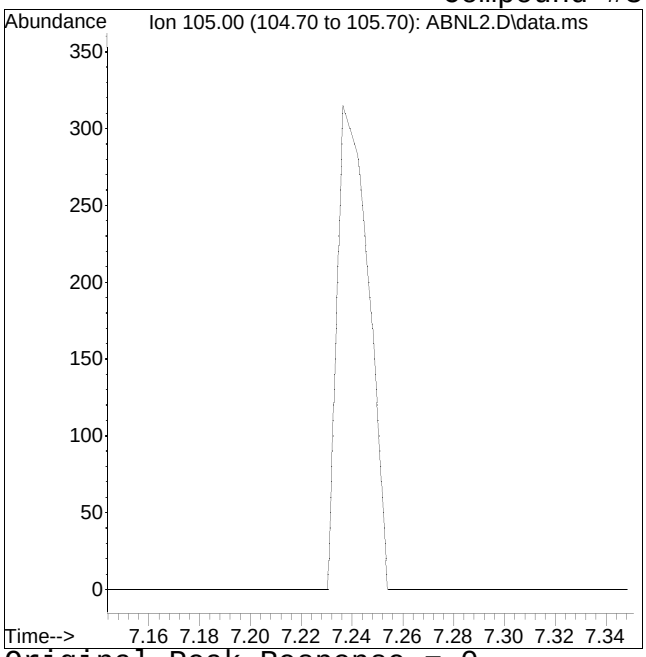
Sub List : ABNical_REV1 - ABN ical sublistNL6.D•



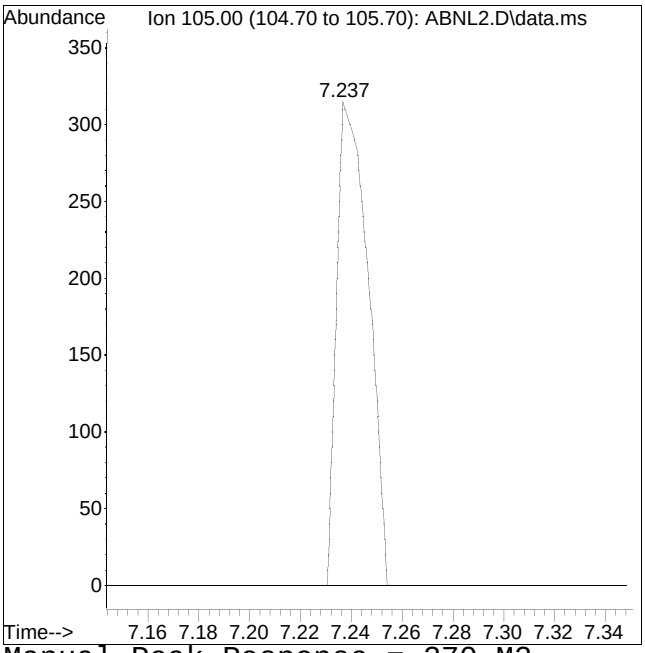
Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL2.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 3:47 am Instrument : SV107
Sample : IL9,32,,ABNL0.4 Lot# 10170Quant Date : 10/27/2023 11:22 am

Compound #36: Benzoic Acid



Original Peak Response = 0



Manual Peak Response = 270 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL1.D
Acq On : 26 Oct 2023 4:13 am
Operator : SV107:cmm
Sample : IL10,32,,ABNL0.2 Lot# 10315
Misc : WG1845543,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 11:31:31 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	5.948	152	25407	4.000 ug/ml	0.00
Standard Area 1 = 27259			Recovery = 93.21%		
34) IS1_Naphthalene-d8	7.425	136	94597	4.000 ug/ml	0.00
Standard Area 1 = 100070			Recovery = 94.53%		
62) IS1_Acenaphthene-d10	9.183	164	53290	4.000 ug/ml	0.00
Standard Area 1 = 61827			Recovery = 86.19%		
87) IS1_Phenanthrene-d10	10.601	188	107868	4.000 ug/ml	# 0.00
Standard Area 1 = 118484			Recovery = 91.04%		
103) IS1_Chrysene-d12	13.171	240	85355	4.000 ug/ml	0.00
Standard Area 1 = 97319			Recovery = 87.71%		
112) IS1_Perylene-d12	14.589	264	86853	4.000 ug/ml	0.00
Standard Area 1 = 102757			Recovery = 84.52%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.554	112	1127	0.168 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 3.36%#		
7) Phenol-d6	5.595	99	1635	0.198 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 3.96%#		
19) Nitrobenzene-d5	6.654	82	1426	0.184 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 7.36%#		
45) 2-Fluorobiphenyl	8.560	172	3730	0.199 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 7.96%#		
78) 2,4,6-Tribromophenol	9.942	330	246M2	0.138 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 2.76%#		
95) 4-Terphenyl-d14	12.171	244	4242	0.198 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 7.92%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.596	74	772	0.178 ug/ml#	88
3) Pyridine	1.701	79	1309	0.165 ug/ml	82
5) Aniline	5.519	93	1920	0.172 ug/ml#	79
6) 2-Chlorophenol	5.672	128	1346	0.188 ug/ml#	68
8) Phenol	5.613	94	1582	0.178 ug/ml#	86
9) Bis(2-chloroethyl)ether	5.684	93	1288	0.174 ug/ml#	50
10) 1,3-Dichlorobenzene	5.866	146	1672	0.197 ug/ml	94
11) 1,4-Dichlorobenzene	5.966	146	1898	0.218 ug/ml#	90
12) 1,2-Dichlorobenzene	6.160	146	1765	0.211 ug/ml	99
13) Benzyl alcohol	6.207	79	913	0.156 ug/ml	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL1.D
Acq On : 26 Oct 2023 4:13 am
Operator : SV107:cmm
Sample : IL10,32,,ABNL0.2 Lot# 10315
Misc : WG1845543,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 11:31:31 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) Bis(2-chloroisopropyl)...	6.389	45	3000	0.204	ug/ml#	60
15) 2-Methylphenol	6.389	108	1141	0.178	ug/ml#	88
16) Hexachloroethane	6.560	117	657	0.196	ug/ml#	71
17) n-Nitrosodi-n-propylamine	6.548	70	945	0.176	ug/ml#	59
18) 3-Methylphenol/4-Methy...	6.589	108	1258	0.185	ug/ml#	90
20) Nitrobenzene	6.678	77	1518	0.191	ug/ml#	90
21) Isophorone	6.972	82	2757	0.195	ug/ml#	65
22) 2-Nitrophenol	7.042	139	530	0.151	ug/ml#	31
23) 2,4-Dimethylphenol	7.160	107	1116	0.151	ug/ml	92
24) Bis(2-chloroethoxy)met...	7.254	93	2017	0.209	ug/ml#	85
25) 2,4-Dichlorophenol	7.313	162	971	0.150	ug/ml#	74
26) 1,2,4-Trichlorobenzene	7.383	180	1747	0.240	ug/ml#	86
35) Naphthalene	7.442	128	4738	0.208	ug/ml	98
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	7.554	65	462	0.142	ug/ml#	73
38) Hexachlorobutadiene	7.619	225	885	0.197	ug/ml	94
39) p-Chloro-m-cresol	8.089	107	941	0.151	ug/ml#	80
40) 2-Methylnaphthalene	8.166	142	2868	0.185	ug/ml	91
41) 1-Methylnaphthalene	8.260	115	1162	0.216	ug/ml	89
42) Hexachlorocyclopentadiene	8.348	237	914	0.182	ug/ml#	94
43) 2,4,6-Trichlorophenol	8.477	196	697	0.141	ug/ml#	79
44) 2,4,5-Trichlorophenol	8.507	196	689	0.129	ug/ml#	84
46) 2-Chloronaphthalene	8.642	162	2886	0.183	ug/ml	96
47) 2-Nitroaniline	8.772	138	592	0.135	ug/ml#	53
48) 1,4-Dinitrobenzene	8.907	168	226M2	0.104	ug/ml	
49) 1,3-Dinitrobenzene	8.983	168	214M2	0.085	ug/ml	
50) Dimethyl phthalate	8.977	163	3372	0.174	ug/ml#	77
51) Acenaphthylene	9.036	152	4591	0.178	ug/ml	98
52) 2,6-Dinitrotoluene	9.019	165	436	0.112	ug/ml#	46
53) 1,2-Dinitrobenzene	9.054	168	133M2	0.081	ug/ml	
63) 3-Nitroaniline	9.172	138	506	0.132	ug/ml#	1
64) Acenaphthene	9.213	154	3239	0.237	ug/ml	95
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	9.383	168	4620	0.222	ug/ml	88
67) 2,4-Dinitrotoluene	9.401	165	605	0.121	ug/ml#	72
68) 4-Nitrophenol	9.383	65	268M2	0.069	ug/ml	
69) 2,3,5,6-Tetrachlorophenol	9.483	232	610	0.154	ug/ml#	69
70) 2,3,4,6-Tetrachlorophenol	9.524	232	482	0.119	ug/ml#	52
71) Diethyl phthalate	9.666	149	3072	0.178	ug/ml#	87
72) Fluorene	9.713	166	3216	0.199	ug/ml	85

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL1.D
Acq On : 26 Oct 2023 4:13 am
Operator : SV107:cmm
Sample : IL10,32,,ABNL0.2 Lot# 10315
Misc : WG1845543,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 11:31:31 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	4-Chlorophenyl phenyl ...	9.742	204	1742	0.216	ug/ml	95
74)	4-Nitroaniline	9.754	138	282M2	0.073	ug/ml	
75)	4,6-Dinitro-o-cresol	9.789	198	166M2	0.067	ug/ml	
76)	NDPA/DPA	9.860	169	2269	0.164	ug/ml	91
77)	Azobenzene	9.889	77	3116	0.186	ug/ml	95
79)	4-Bromophenyl phenyl e...	10.207	248	1030	0.237	ug/ml	97
80)	Hexachlorobenzene	10.242	284	1034	0.226	ug/ml#	74
81)	Pentachlorophenol	10.448	266	198M2	0.077	ug/ml	
88)	Phenanthrene	10.624	178	5983	0.222	ug/ml	97
89)	Anthracene	10.671	178	5278	0.191	ug/ml	97
90)	Carbazole	10.848	167	3864	0.157	ug/ml	94
91)	Di-n-butylphthalate	11.254	149	4666	0.158	ug/ml#	79
92)	Fluoranthene	11.760	202	6204	0.199	ug/ml#	91
93)	Benzidine	11.930	184	1518	0.085	ug/ml#	68
94)	Pyrene	11.971	202	6101	0.180	ug/ml	98
96)	Butyl benzyl phthalate	12.689	149	1567	0.136	ug/ml#	87
104)	Benzo(a)anthracene	13.160	228	5600	0.205	ug/ml	98
105)	3,3'-Dichlorobenzidine	13.177	252	1203	0.132	ug/ml#	89
106)	Chrysene	13.195	228	6318	0.233	ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	13.312	149	2405	0.139	ug/ml#	82
108)	Di-n-octylphthalate	13.971	149	3595	0.130	ug/ml#	83
109)	Benzo(b)fluoranthene	14.230	252	4935	0.189	ug/ml	95
110)	Benzo(k)fluoranthene	14.254	252	4518	0.164	ug/ml#	91
111)	Benzo(a)pyrene	14.530	252	3561	0.153	ug/ml	96
113)	Indeno(1,2,3-cd)pyrene	15.524	276	3059M6	0.170	ug/mL	
114)	Dibenzo(a,h)anthracene	15.553	278	3484	0.166	ug/ml#	92
115)	Benzo(ghi)perylene	15.736	276	4113	0.192	ug/ml#	90

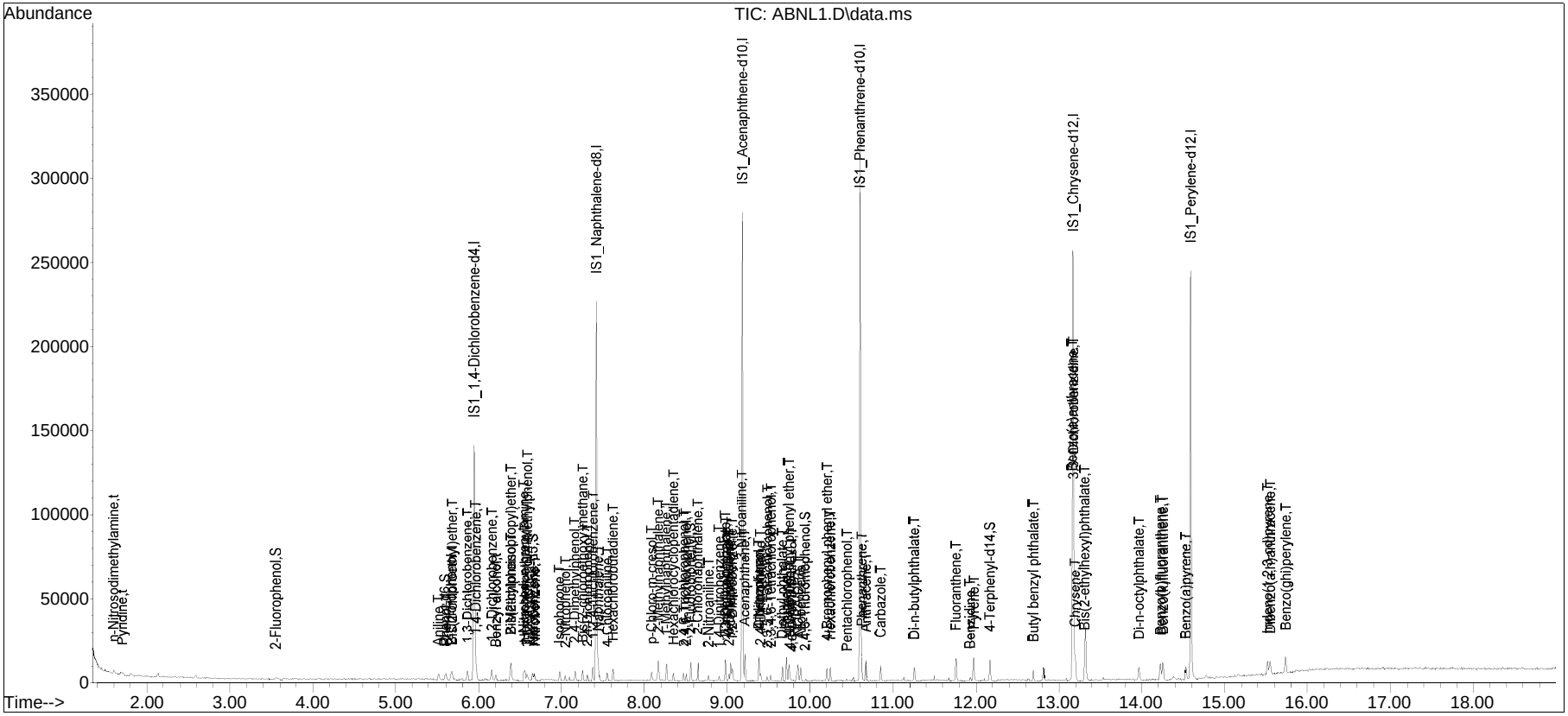
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL1.D
Acq On : 26 Oct 2023 4:13 am
Operator : SV107:cmm
Sample : IL10,32,,ABNL0.2 Lot# 10315
Misc : WG1845543,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 11:31:31 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

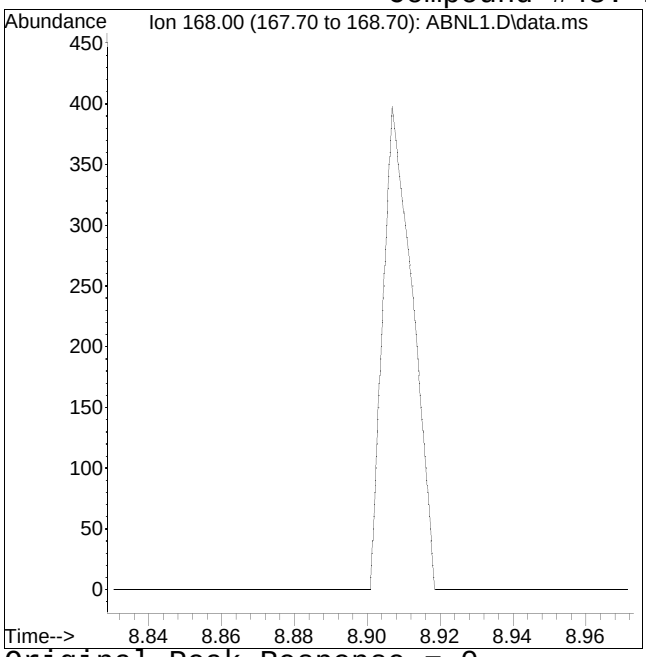
Sub List : ABNical_REV1 - ABN ical sublistNL6.D•



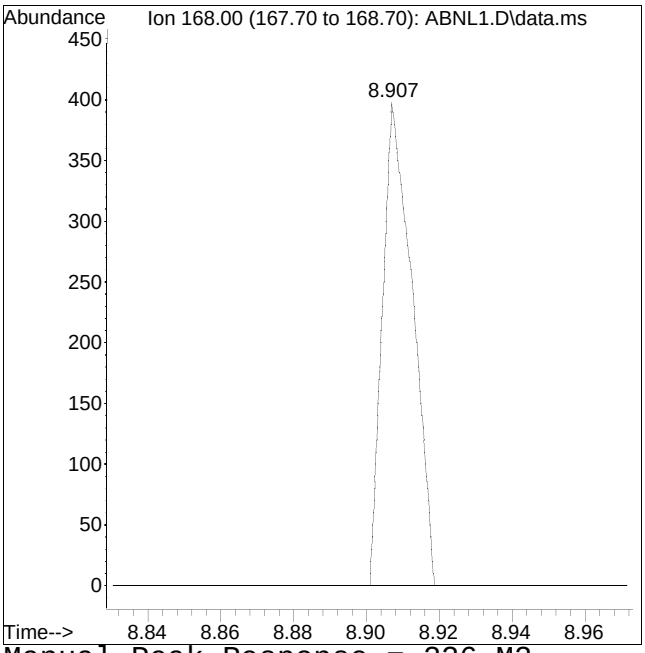
Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 4:13 am Instrument : SV107
Sample : IL10,32,,ABNL0.2 Lot# 1031 Quant Date : 10/27/2023 11:22 am

Compound #48: 1,4-Dinitrobenzene



Original Peak Response = 0



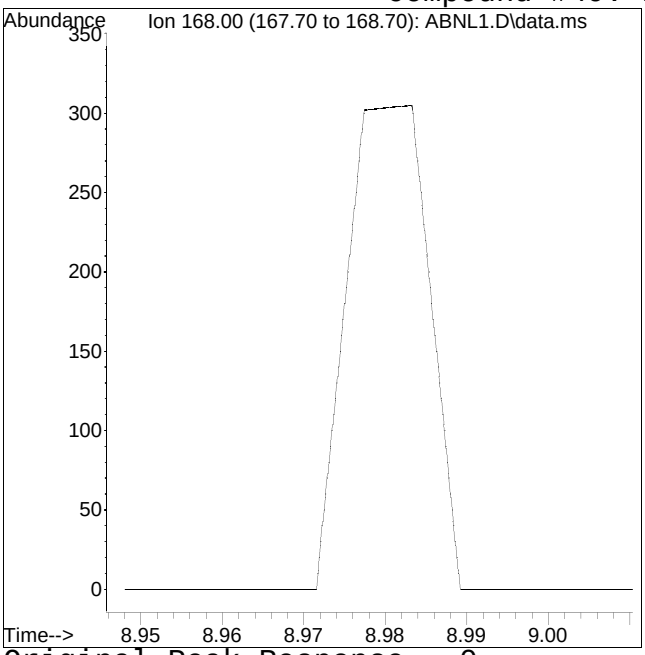
Manual Peak Response = 226 M2

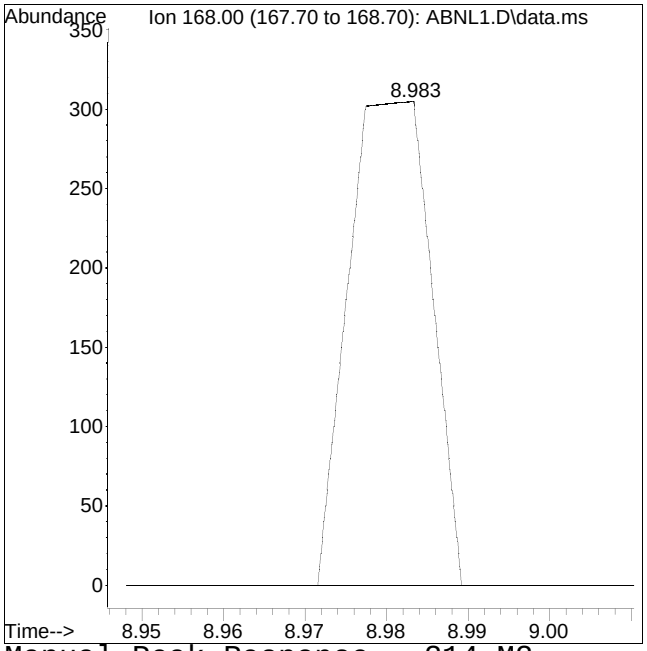
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 4:13 am Instrument : SV107
Sample : IL10,32,,ABNL0.2 Lot# 1031 Quant Date : 10/27/2023 11:22 am

Compound #49: 1,3-Dinitrobenzene



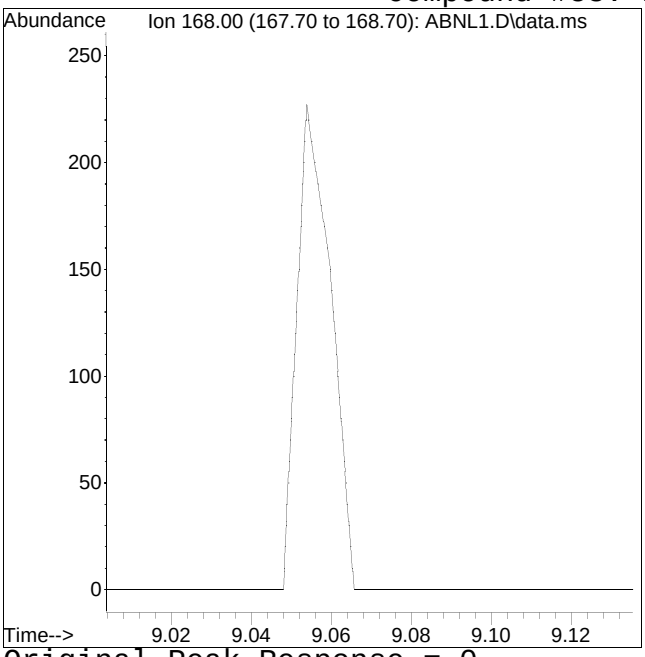


Original Peak Response = 0 Manual Peak Response = 214 M2
M2 = Peak not found by automatic integration algorithm.

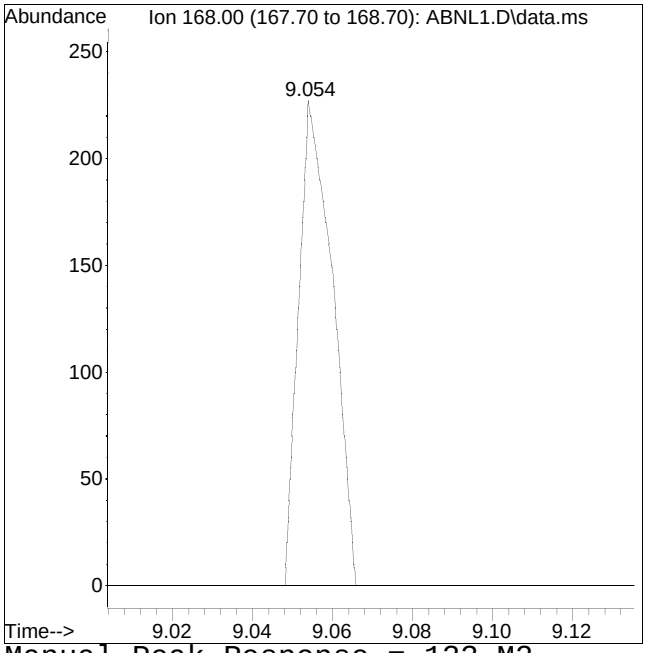
Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 4:13 am Instrument : SV107
Sample : IL10,32,,ABNL0.2 Lot# 1031 Quant Date : 10/27/2023 11:22 am

Compound #53: 1,2-Dinitrobenzene



Original Peak Response = 0



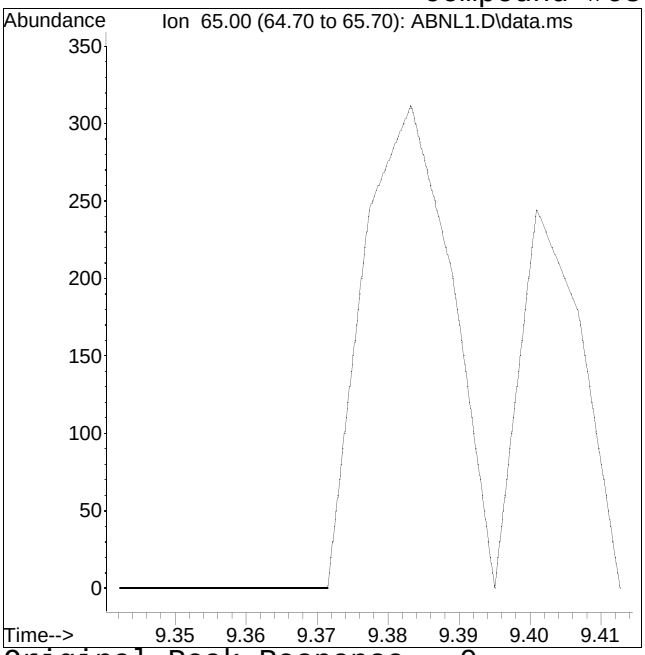
Manual Peak Response = 133 M2

M2 = Peak not found by automatic integration algorithm.

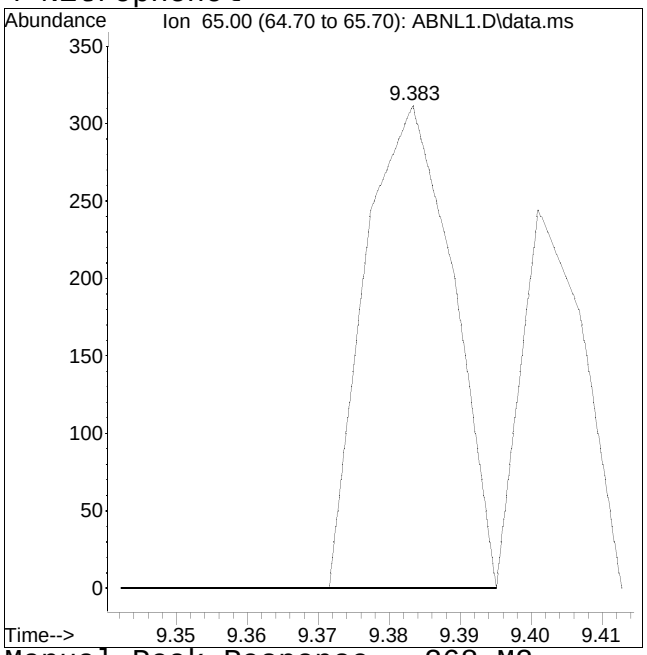
Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 4:13 am Instrument : SV107
Sample : IL10,32,,ABNL0.2 Lot# 1031 Quant Date : 10/27/2023 11:22 am

Compound #68: 4-Nitrophenol



Original Peak Response = 0



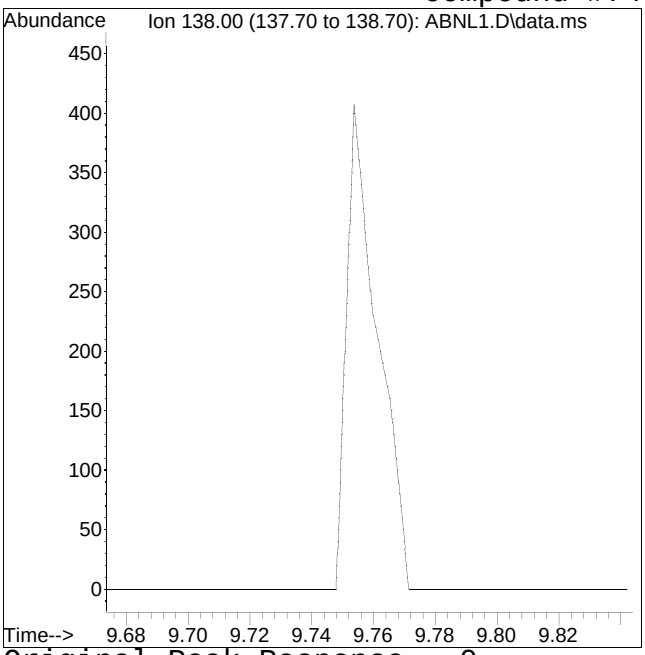
Manual Peak Response = 268 M2

M2 = Peak not found by automatic integration algorithm.

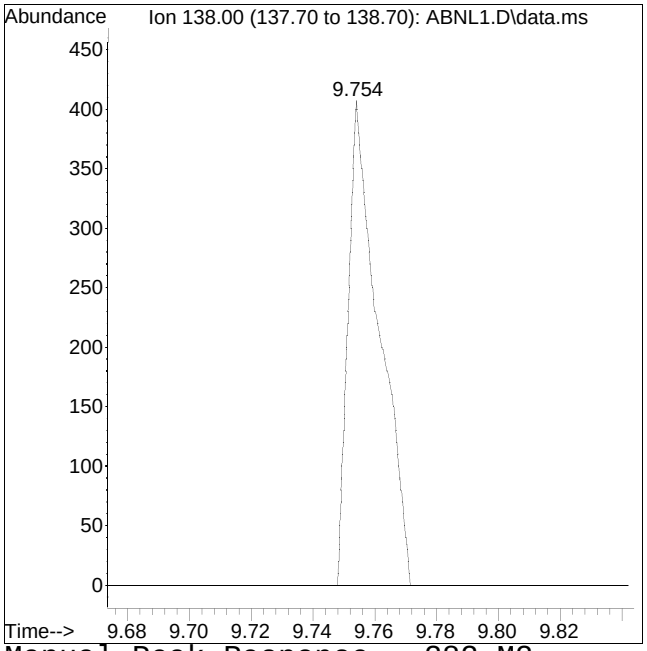
Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 4:13 am Instrument : SV107
Sample : IL10,32,,ABNL0.2 Lot# 1031 Quant Date : 10/27/2023 11:22 am

Compound #74: 4-Nitroaniline



Original Peak Response = 0



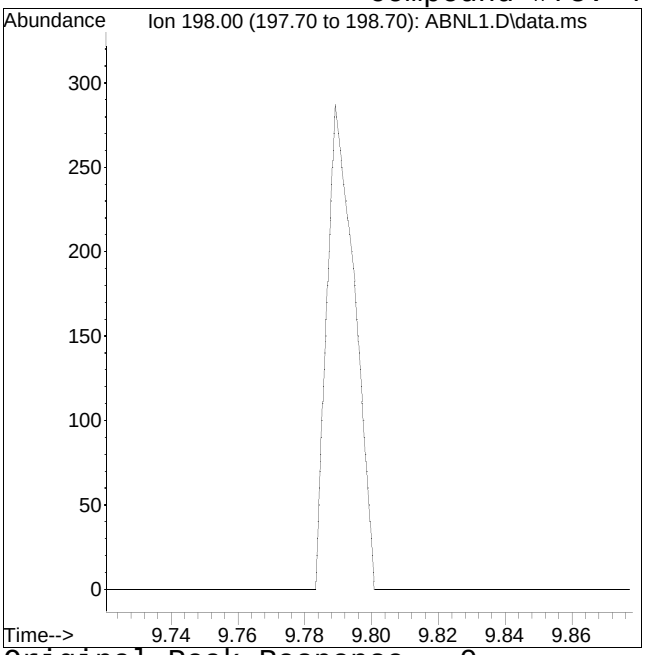
Manual Peak Response = 282 M2

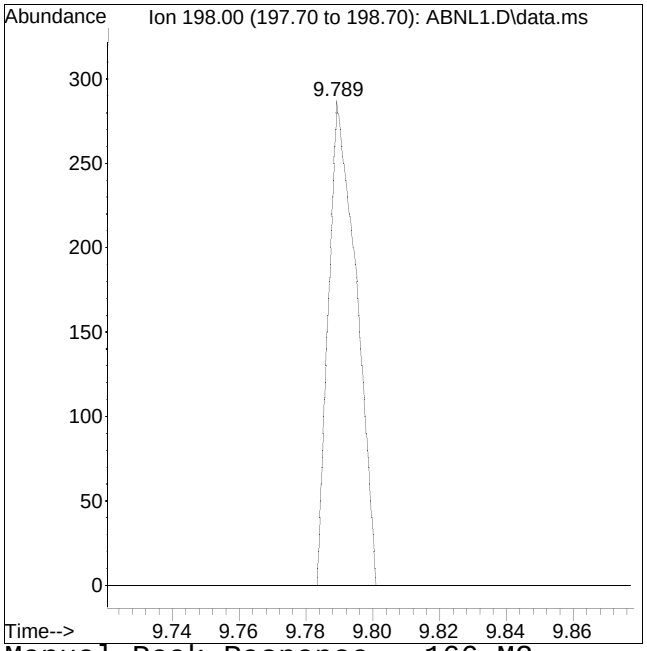
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 4:13 am Instrument : SV107
Sample : IL10,32,,ABNL0.2 Lot# 1031 Quant Date : 10/27/2023 11:22 am

Compound #75: 4,6-Dinitro-o-cresol



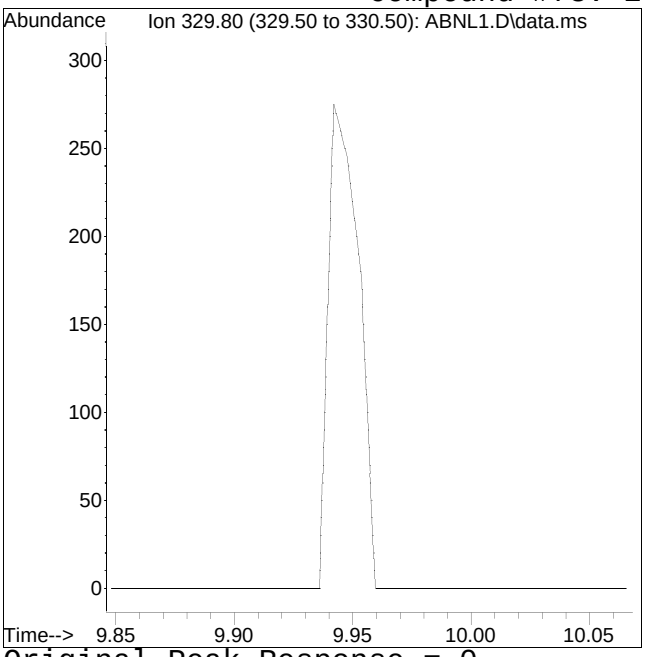


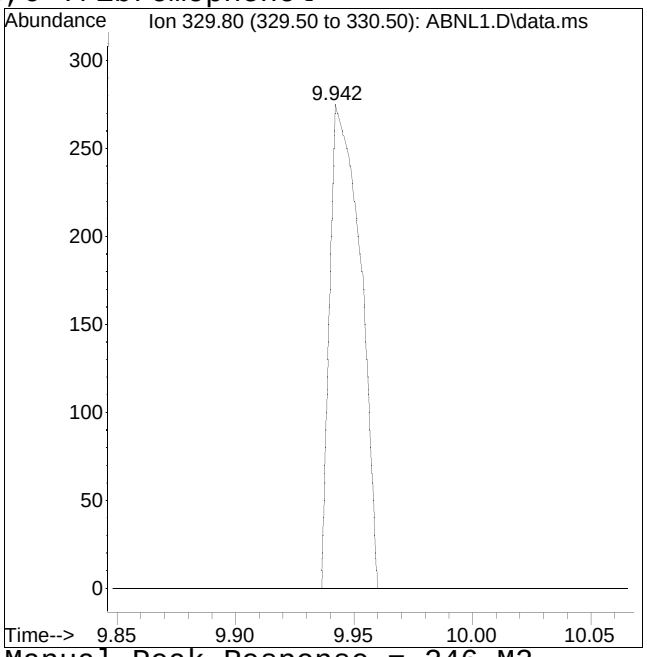
Original Peak Response = 0 Manual Peak Response = 166 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 4:13 am Instrument : SV107
Sample : IL10,32,,ABNL0.2 Lot# 1031 Quant Date : 10/27/2023 11:22 am

Compound #78: 2,4,6-Tribromophenol



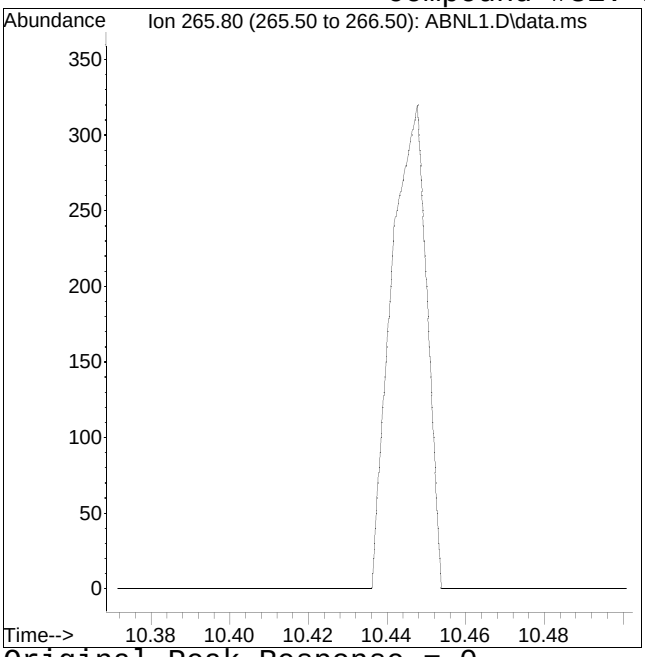


Original Peak Response = 0 Manual Peak Response = 246 M2
M2 = Peak not found by automatic integration algorithm.

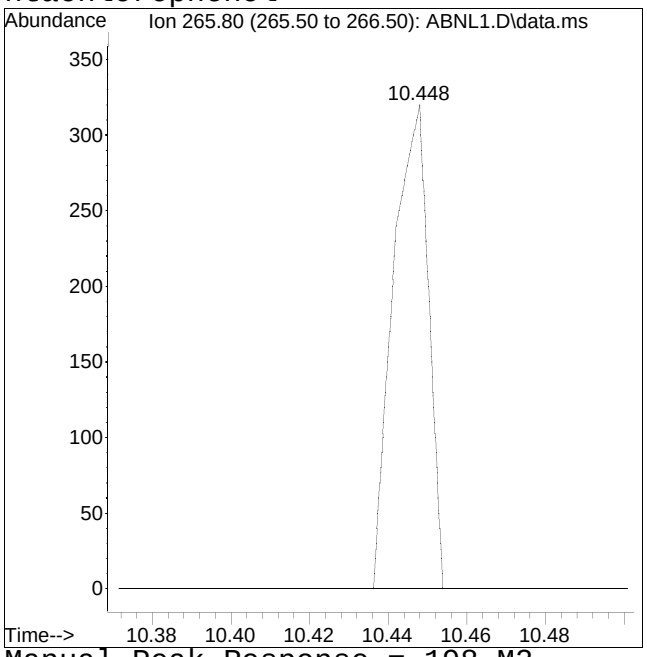
Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 4:13 am Instrument : SV107
Sample : IL10,32,,ABNL0.2 Lot# 1031 Quant Date : 10/27/2023 11:22 am

Compound #81: Pentachlorophenol



Original Peak Response = 0

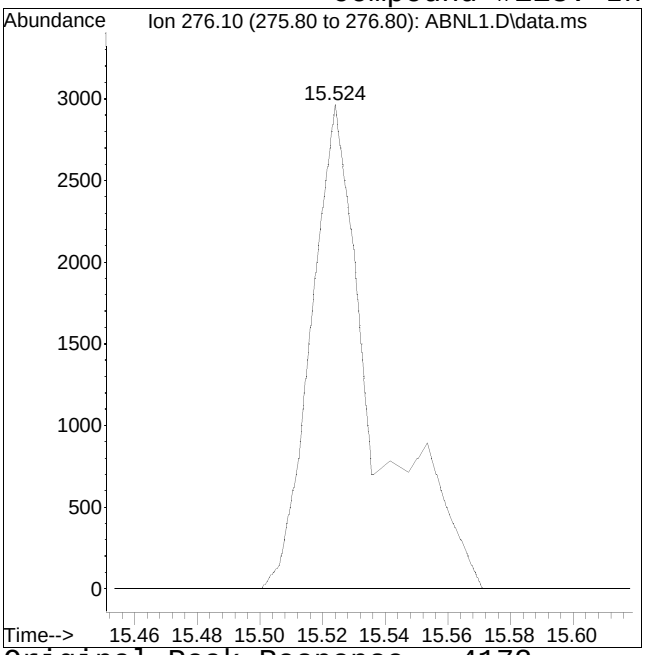


Manual Peak Response = 198 M2

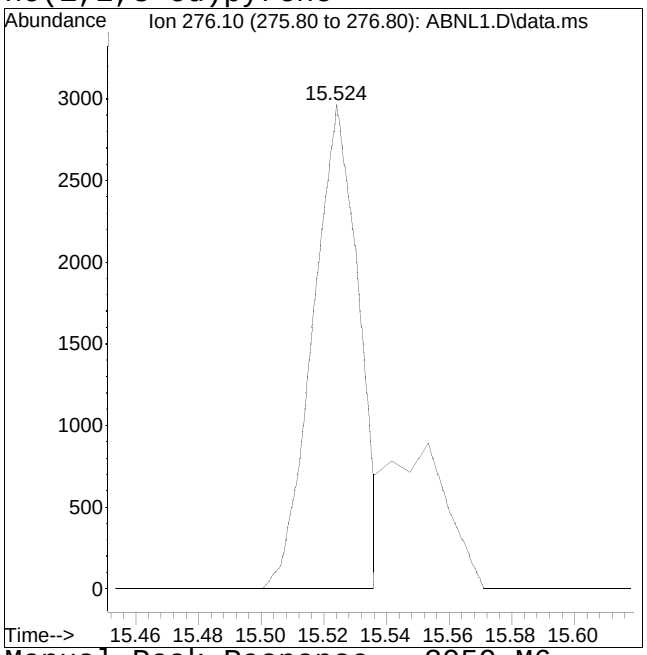
M2 = Peak not found by automatic integration algorithm.

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : ABNL1.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 4:13 am Instrument : SV107
Sample : IL10,32,,ABNL0.2 Lot# 1031 Quant Date : 10/27/2023 11:22 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 4172



Manual Peak Response = 3059 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L10.D
Acq On : 26 Oct 2023 4:39 am
Operator : SV107:cmm
Sample : IL1,32,,AP9L50 Lot# 10294
Misc : WG1845543,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 12:36:43 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.948	152	29585	4.000	ug/ml	0.00
Standard Area 1 = 27390			Recovery =	108.01%		
54) IS2_Naphthalene-d8	7.425	136	113261	4.000	ug/ml	0.00
Standard Area 1 = 102934			Recovery =	110.03%		
82) IS2_Acenaphthene-d10	9.184	164	66224	4.000	ug/ml	0.00
Standard Area 1 = 61011			Recovery =	108.54%		
97) IS2_Phenanthrene-d10	10.601	188	135860	4.000	ug/ml	0.00
Standard Area 1 = 122772			Recovery =	110.66%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.307	105	381914	52.399	ug/ml	99
29) Acetophenone	6.484	105	675376	53.406	ug/ml#	88
30) m-Toluidine	6.590	106	659140	54.892	ug/ml	94
31) 2-Chloroaniline	7.001	127	580907	51.444	ug/ml	97
55) a-Terpineol	7.519	59	523724	54.413	ug/ml	99
56) 3-Chloroaniline	7.531	65	233002	51.432	ug/ml	76
57) 2,6-Dichlorophenol	7.554	162	413096	53.719	ug/ml#	90
58) 1-chloro-2-nitrobenzene	7.819	111	212721	53.316	ug/ml#	1
59) Caprolactam	7.889	55	316082	61.232	ug/ml#	91
60) 1,2,4,5-Tetrachloroben...	8.342	216	472778	48.779	ug/ml	98
61) Biphenyl	8.648	154	1180711	49.154	ug/ml	98
83) Dichloran	10.319	206	156109	68.447	ug/ml#	75
84) Pentachloronitrobenzene	10.460	237	155015	61.309	ug/ml#	85
98) Diphenamid	11.525	167	839418	54.027	ug/ml	88

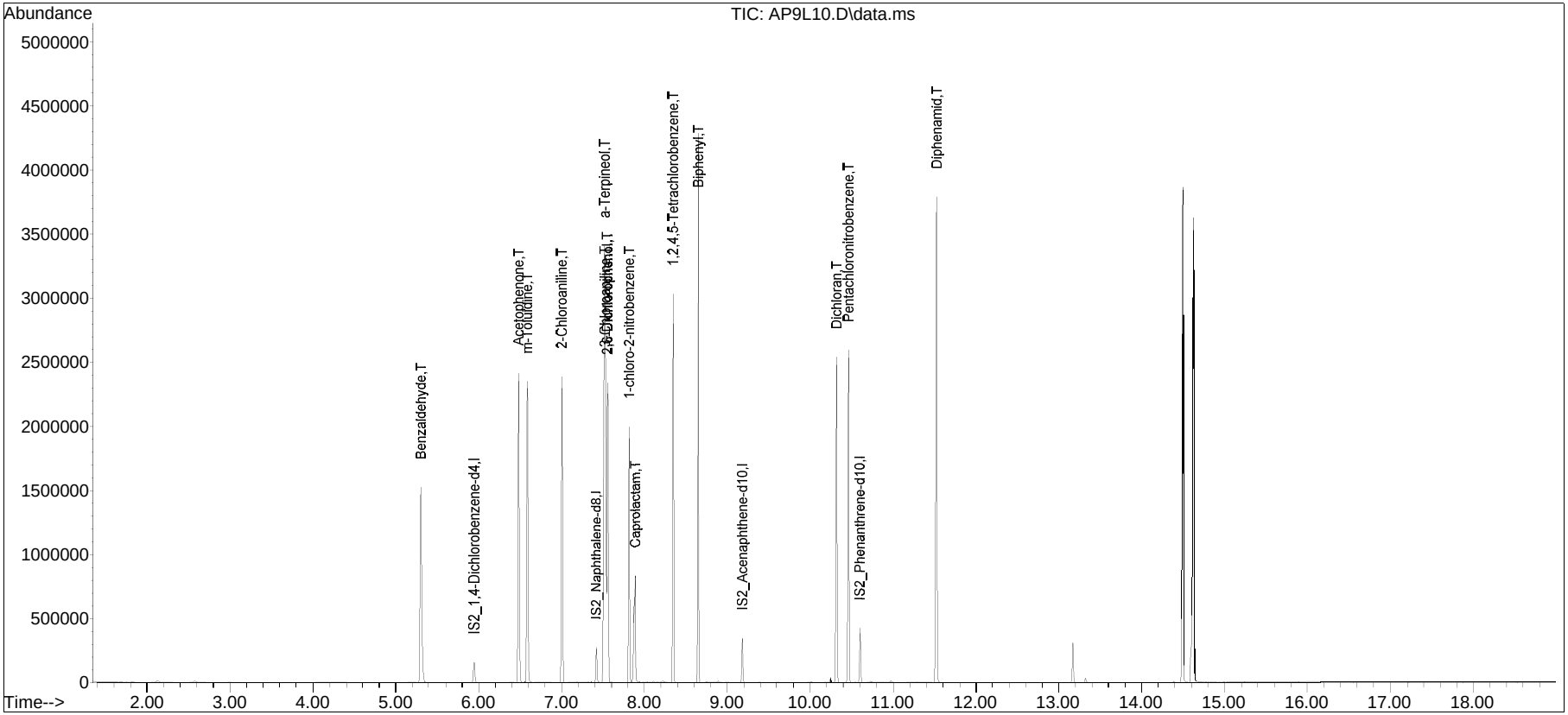
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L10.D
Acq On : 26 Oct 2023 4:39 am
Operator : SV107:cmm
Sample : IL1,32,,AP9L50 Lot# 10294
Misc : WG1845543,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 12:36:43 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: AP9L10.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 4:39 am	Instrument	: SV107
Sample	: IL1,32,,AP9L50 Lot# 10294	Quant Date	: 10/27/2023 11:25 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L9.D
Acq On : 26 Oct 2023 5:04 am
Operator : SV107:cmm
Sample : IL2,32,,AP9L35 Lot# 10296
Misc : WG1845543,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 12:46:40 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.948	152	31100	4.000	ug/ml	0.00
Standard Area 1 = 27390			Recovery =	113.55%		
54) IS2_Naphthalene-d8	7.425	136	117511	4.000	ug/ml	0.00
Standard Area 1 = 102934			Recovery =	114.16%		
82) IS2_Acenaphthene-d10	9.183	164	67587	4.000	ug/ml	0.00
Standard Area 1 = 61011			Recovery =	110.78%		
97) IS2_Phenanthrene-d10	10.601	188	139613	4.000	ug/ml	0.00
Standard Area 1 = 122772			Recovery =	113.72%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.307	105	278339	36.328	ug/ml	98
29) Acetophenone	6.484	105	488617	36.756	ug/ml#	87
30) m-Toluidine	6.589	106	469336	37.182	ug/ml	95
31) 2-Chloroaniline	7.001	127	427785	36.038	ug/ml	95
55) a-Terpineol	7.513	59	376513	37.703	ug/ml	99
56) 3-Chloroaniline	7.525	65	171224	36.429	ug/ml	75
57) 2,6-Dichlorophenol	7.548	162	299329	37.517	ug/ml	90
58) 1-chloro-2-nitrobenzene	7.819	111	154232	37.259	ug/ml#	1
59) Caprolactam	7.883	55	226169	42.229	ug/ml#	91
60) 1,2,4,5-Tetrachloroben...	8.342	216	348493	34.655	ug/ml	98
61) Biphenyl	8.648	154	848668	34.053	ug/ml	97
83) Dichloran	10.319	206	109603	47.087	ug/ml#	75
84) Pentachloronitrobenzene	10.460	237	105760	40.985	ug/ml	87
98) Diphenamid	11.518	167	599388	37.541	ug/ml	88

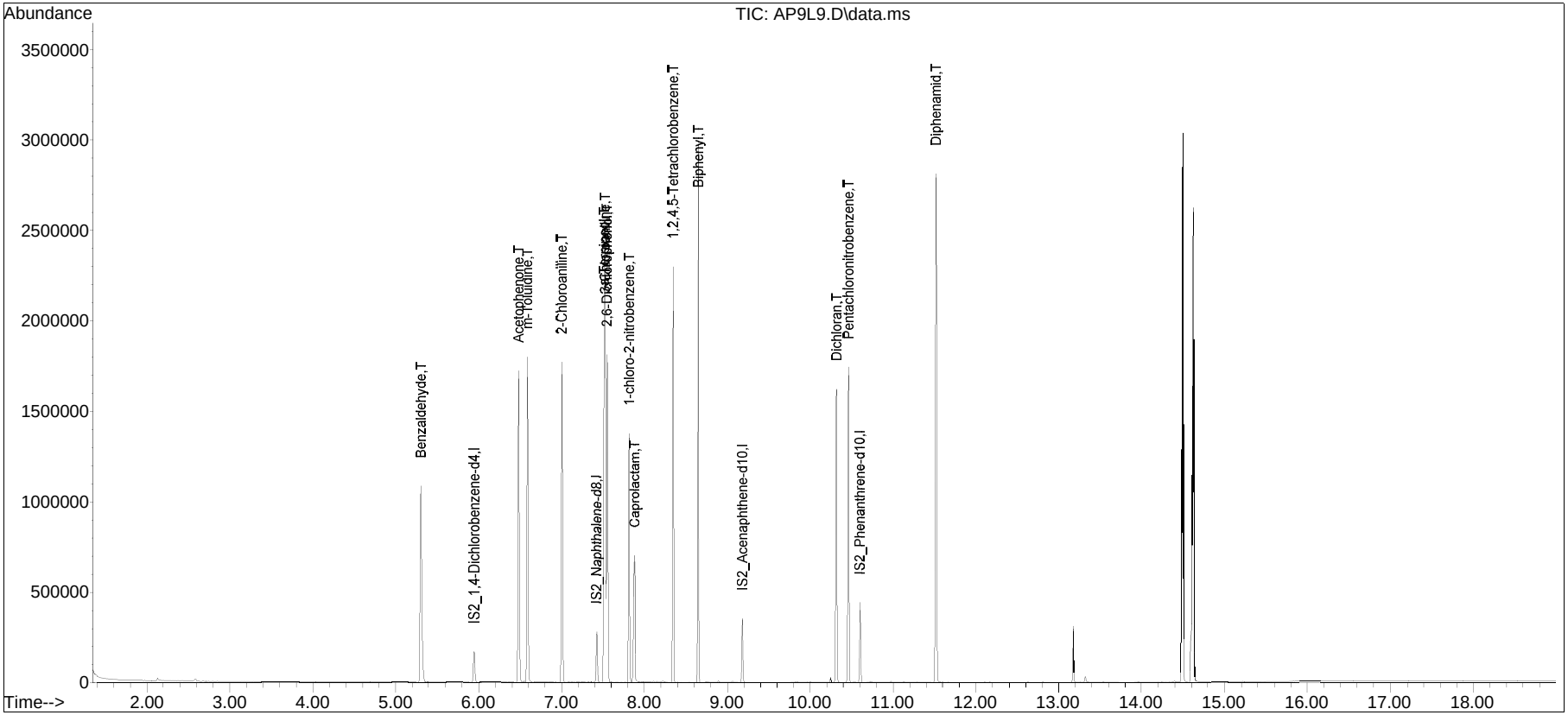
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L9.D
Acq On : 26 Oct 2023 5:04 am
Operator : SV107:cmm
Sample : IL2,32,,AP9L35 Lot# 10296
Misc : WG1845543,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 27 12:46:40 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: AP9L9.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 5:04 am	Instrument	: SV107
Sample	: IL2,32,,AP9L35 Lot# 10296	Quant Date	: 10/27/2023 11:25 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L8.D
Acq On : 26 Oct 2023 5:30 am
Operator : SV107:cmm
Sample : IL3,32,,AP9L15 Lot# 10297
Misc : WG1845543,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 12:42:04 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.948	152	30557	4.000	ug/ml	0.00
Standard Area 1 = 27390			Recovery =	111.56%		
54) IS2_Naphthalene-d8	7.425	136	115619	4.000	ug/ml	0.00
Standard Area 1 = 102934			Recovery =	112.32%		
82) IS2_Acenaphthene-d10	9.183	164	67536	4.000	ug/ml	0.00
Standard Area 1 = 61011			Recovery =	110.69%		
97) IS2_Phenanthrene-d10	10.601	188	135691	4.000	ug/ml	0.00
Standard Area 1 = 122772			Recovery =	110.52%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.307	105	116052	15.416	ug/ml	96
29) Acetophenone	6.483	105	203401	15.573	ug/ml#	88
30) m-Toluidine	6.589	106	198327	15.991	ug/ml	94
31) 2-Chloroaniline	7.001	127	179361	15.379	ug/ml	95
55) a-Terpineol	7.513	59	155808	15.858	ug/ml	100
56) 3-Chloroaniline	7.525	65	72042	15.578	ug/ml	75
57) 2,6-Dichlorophenol	7.548	162	123999	15.796	ug/ml#	89
58) 1-chloro-2-nitrobenzene	7.819	111	62035	15.231	ug/ml#	1
59) Caprolactam	7.872	55	89806	17.042	ug/ml#	92
60) 1,2,4,5-Tetrachloroben...	8.342	216	145625	14.718	ug/ml	98
61) Biphenyl	8.642	154	363659	14.831	ug/ml	98
83) Dichloran	10.313	206	41438	17.816	ug/ml#	76
84) Pentachloronitrobenzene	10.454	237	42662	16.545	ug/ml#	85
98) Diphenamid	11.518	167	230375	14.846	ug/ml	90

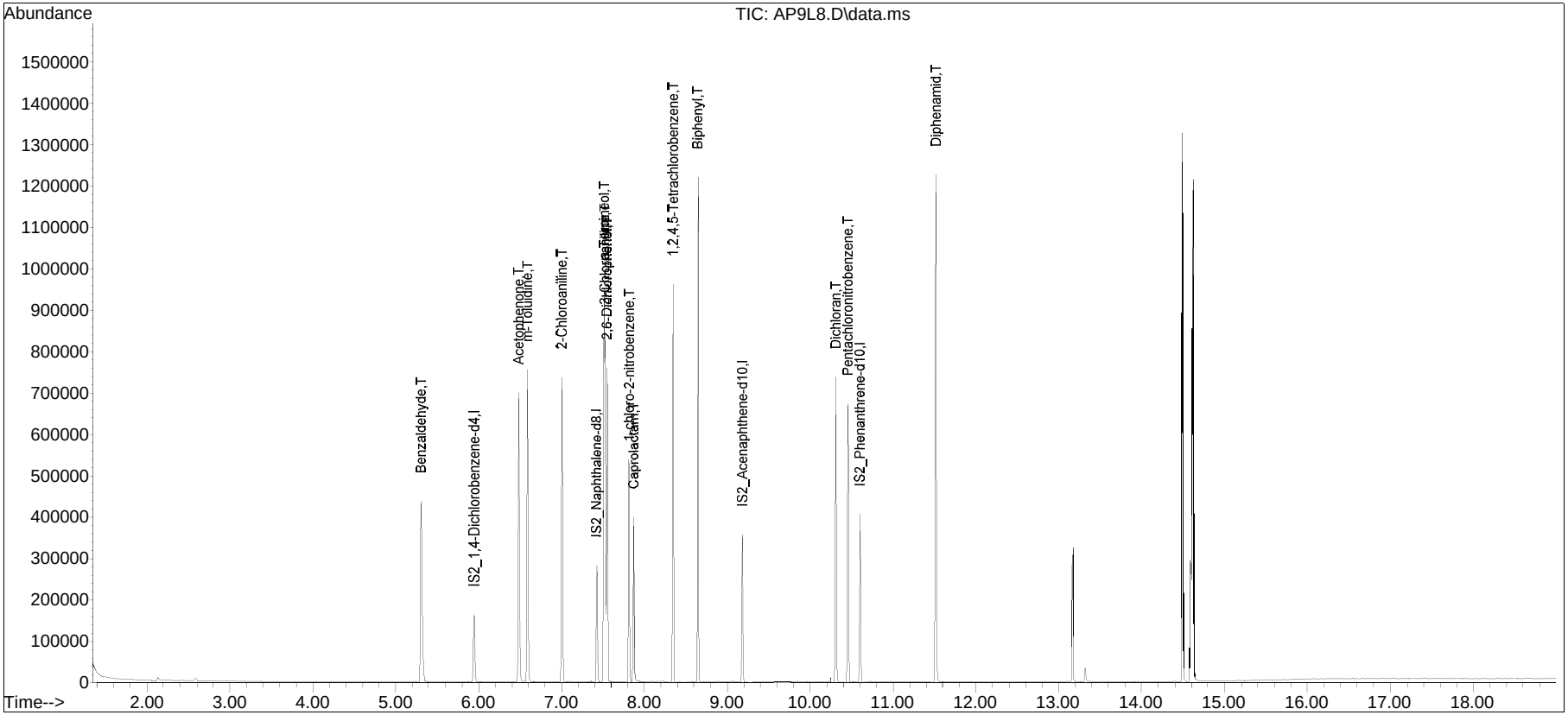
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L8.D
Acq On : 26 Oct 2023 5:30 am
Operator : SV107:cmm
Sample : IL3,32,,AP9L15 Lot# 10297
Misc : WG1845543,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 12:42:04 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: AP9L8.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 5:30 am	Instrument	: SV107
Sample	: IL3,32,,AP9L15 Lot# 10297	Quant Date	: 10/27/2023 11:25 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L7.D
Acq On : 26 Oct 2023 5:56 am
Operator : SV107:cmm
Sample : IL4,32,,AP9L10 Lot# 10298
Misc : WG1845543,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 27 12:41:22 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.948	152	27409	4.000	ug/ml	0.00
Standard Area 1 = 27390			Recovery =	100.07%		
54) IS2_Naphthalene-d8	7.425	136	106244	4.000	ug/ml	0.00
Standard Area 1 = 102934			Recovery =	103.22%		
82) IS2_Acenaphthene-d10	9.184	164	61399	4.000	ug/ml	0.00
Standard Area 1 = 61011			Recovery =	100.64%		
97) IS2_Phenanthrene-d10	10.601	188	127218	4.000	ug/ml	0.00
Standard Area 1 = 122772			Recovery =	103.62%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.313	105	69210	10.250	ug/ml	97
29) Acetophenone	6.484	105	126298	10.780	ug/ml#	88
30) m-Toluidine	6.590	106	121568	10.928	ug/ml	93
31) 2-Chloroaniline	7.001	127	108011	10.325	ug/ml	96
55) a-Terpineol	7.513	59	96480	10.686	ug/ml	100
56) 3-Chloroaniline	7.525	65	43583	10.256	ug/ml	76
57) 2,6-Dichlorophenol	7.548	162	75019	10.400	ug/ml#	89
58) 1-chloro-2-nitrobenzene	7.813	111	38420	10.266	ug/ml#	1
59) Caprolactam	7.866	55	53978	11.147	ug/ml#	92
60) 1,2,4,5-Tetrachloroben...	8.342	216	91404	10.053	ug/ml	98
61) Biphenyl	8.642	154	223456	9.917	ug/ml	98
83) Dichloran	10.313	206	24108	11.401	ug/ml#	78
84) Pentachloronitrobenzene	10.454	237	25677	10.953	ug/ml	85
98) Diphenamid	11.519	167	148135	10.182	ug/ml	89

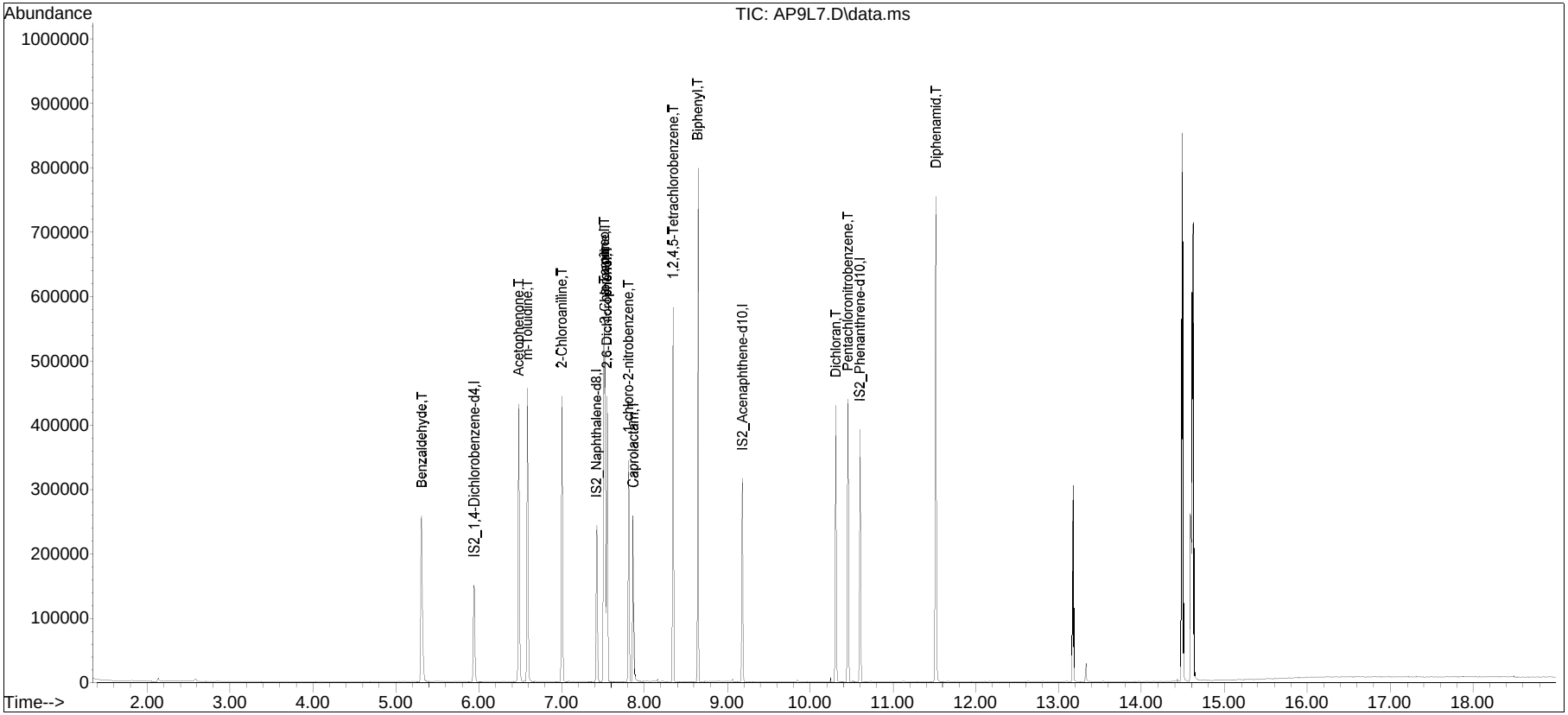
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L7.D
Acq On : 26 Oct 2023 5:56 am
Operator : SV107:cmm
Sample : IL4,32,,AP9L10 Lot# 10298
Misc : WG1845543,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 27 12:41:22 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: AP9L7.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 5:56 am	Instrument	: SV107
Sample	: IL4,32,,AP9L10 Lot# 10298	Quant Date	: 10/27/2023 11:25 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L6.D
Acq On : 26 Oct 2023 6:21 am
Operator : SV107:cmm
Sample : IL5,32,,AP9L5 Lot# 10299
Misc : WG1845543,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 27 11:21:25 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:23 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.948	152	27390	4.000	ug/ml	0.00
Standard Area 1 = 27390			Recovery =	100.00%		
54) IS2_Naphthalene-d8	7.425	136	102934	4.000	ug/ml	0.00
Standard Area 1 = 102934			Recovery =	100.00%		
82) IS2_Acenaphthene-d10	9.183	164	61011	4.000	ug/ml	0.00
Standard Area 1 = 61011			Recovery =	100.00%		
97) IS2_Phenanthrene-d10	10.601	188	122772	4.000	ug/ml	0.00
Standard Area 1 = 122772			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.319	105	33739	5.000	ug/ml	98
29) Acetophenone	6.489	105	58539	5.000	ug/ml#	89
30) m-Toluidine	6.595	106	55585	5.000	ug/ml	96
31) 2-Chloroaniline	7.001	127	52271	5.000	ug/ml	96
55) a-Terpineol	7.513	59	43737	5.000	ug/ml	100
56) 3-Chloroaniline	7.525	65	20586	5.000	ug/ml	76
57) 2,6-Dichlorophenol	7.548	162	34944	5.000	ug/ml#	90
58) 1-chloro-2-nitrobenzene	7.819	111	18130	5.000	ug/ml#	1
59) Caprolactam	7.860	55	23457	5.000	ug/ml#	91
60) 1,2,4,5-Tetrachloroben...	8.342	216	44043	5.000	ug/ml	98
61) Biphenyl	8.642	154	109152	5.000	ug/ml	99
83) Dichloran	10.313	206	10506	5.000	ug/ml#	78
84) Pentachloronitrobenzene	10.454	237	11647	5.000	ug/ml	86
98) Diphenamid	11.519	167	70201	5.000	ug/ml	88

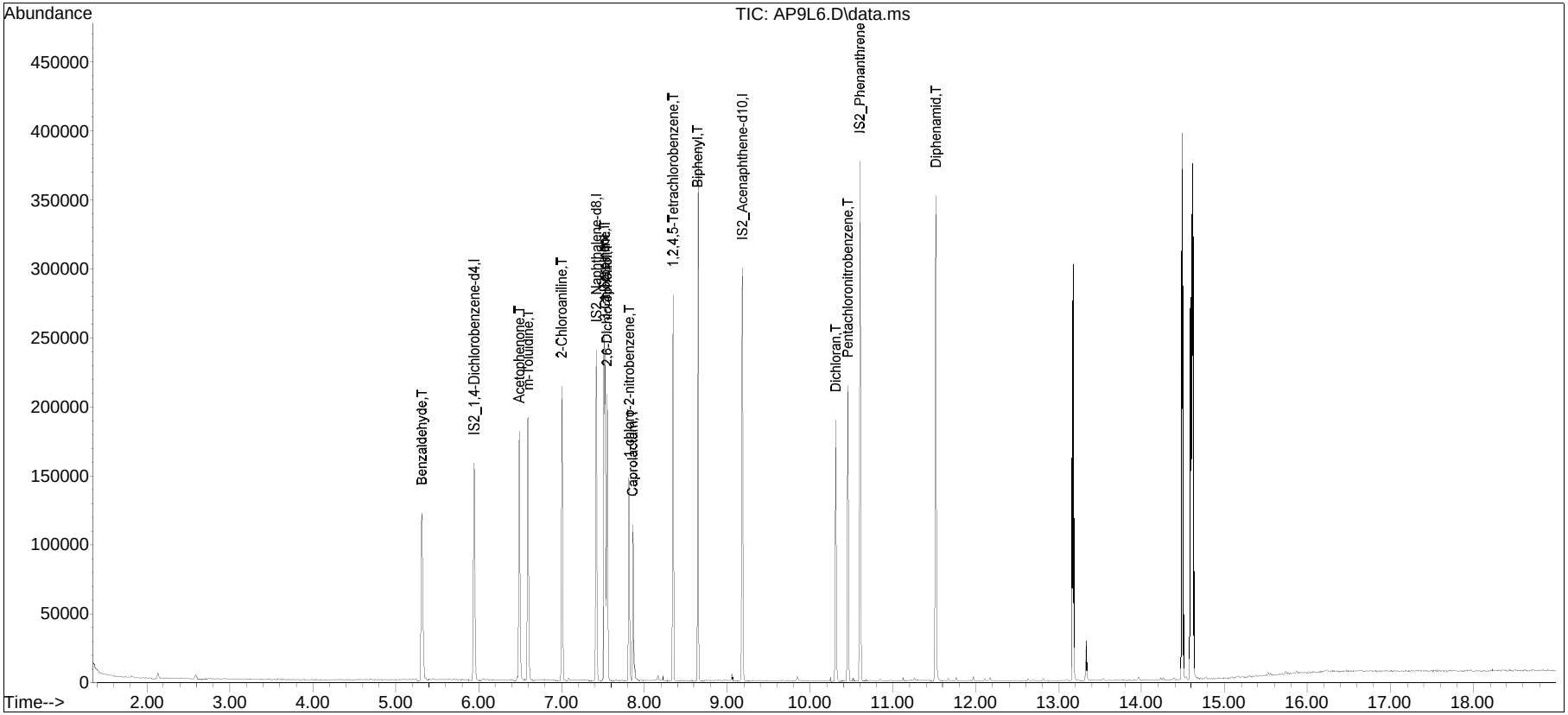
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L6.D
Acq On : 26 Oct 2023 6:21 am
Operator : SV107:cmm
Sample : IL5,32,,AP9L5 Lot# 10299
Misc : WG1845543,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 27 11:21:25 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:23 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: AP9L6.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 6:21 am	Instrument	: SV107
Sample	: IL5,32,,AP9L5 Lot# 10299	Quant Date	: 10/27/2023 11:21 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L5.D
Acq On : 26 Oct 2023 6:47 am
Operator : SV107:cmm
Sample : IL6,32,,AP9L3 Lot# 10300
Misc : WG1845543,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 27 12:40:35 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.948	152	28942	4.000	ug/ml	0.00
Standard Area 1 = 27390			Recovery =	105.67%		
54) IS2_Naphthalene-d8	7.425	136	100875	4.000	ug/ml	0.00
Standard Area 1 = 102934			Recovery =	98.00%		
82) IS2_Acenaphthene-d10	9.183	164	58114	4.000	ug/ml	0.00
Standard Area 1 = 61011			Recovery =	95.25%		
97) IS2_Phenanthrene-d10	10.601	188	117435	4.000	ug/ml	0.00
Standard Area 1 = 122772			Recovery =	95.65%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.319	105	19795	2.776	ug/ml	98
29) Acetophenone	6.489	105	34484	2.787	ug/ml#	91
30) m-Toluidine	6.595	106	32276	2.748	ug/ml	93
31) 2-Chloroaniline	7.001	127	29689	2.688	ug/ml	96
55) a-Terpineol	7.513	59	25478	2.972	ug/ml	96
56) 3-Chloroaniline	7.525	65	12259	3.038	ug/ml#	75
57) 2,6-Dichlorophenol	7.548	162	19853	2.899	ug/ml#	88
58) 1-chloro-2-nitrobenzene	7.819	111	10826	3.047	ug/ml#	1
59) Caprolactam	7.860	55	12556	2.731	ug/ml#	89
60) 1,2,4,5-Tetrachloroben...	8.342	216	25840	2.993	ug/ml	99
61) Biphenyl	8.642	154	63489	2.968	ug/ml	98
83) Dichloran	10.313	206	4958	2.477	ug/ml	82
84) Pentachloronitrobenzene	10.454	237	6204	2.796	ug/ml	87
98) Diphenamid	11.519	167	35465	2.641	ug/ml	89

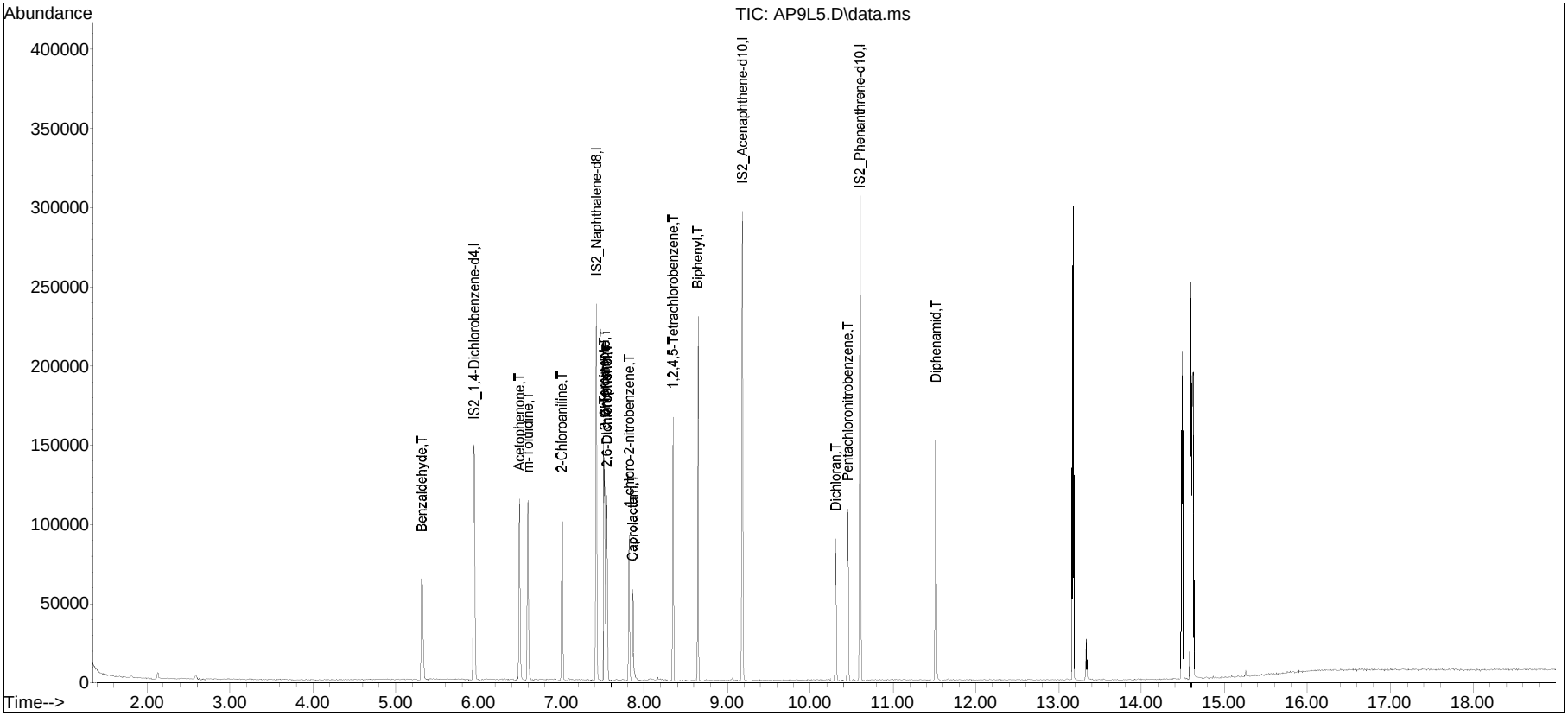
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L5.D
Acq On : 26 Oct 2023 6:47 am
Operator : SV107:cmm
Sample : IL6,32,,AP9L3 Lot# 10300
Misc : WG1845543,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 27 12:40:35 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: AP9L5.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 6:47 am	Instrument	: SV107
Sample	: IL6,32,,AP9L3 Lot# 10300	Quant Date	: 10/27/2023 11:25 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L4.D
Acq On : 26 Oct 2023 7:13 am
Operator : SV107:cmm
Sample : IL7,32,,AP9L2 Lot# 10301
Misc : WG1845543,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 27 12:39:31 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.948	152	26630	4.000	ug/ml	0.00
Standard Area 1 = 27390			Recovery = 97.23%			
54) IS2_Naphthalene-d8	7.425	136	102959	4.000	ug/ml	0.00
Standard Area 1 = 102934			Recovery = 100.02%			
82) IS2_Acenaphthene-d10	9.183	164	57851	4.000	ug/ml	0.00
Standard Area 1 = 61011			Recovery = 94.82%			
97) IS2_Phenanthrene-d10	10.601	188	118633	4.000	ug/ml	0.00
Standard Area 1 = 122772			Recovery = 96.63%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.319	105	13080	1.994	ug/ml	99
29) Acetophenone	6.489	105	22511	1.978	ug/ml#	92
30) m-Toluidine	6.595	106	19917	1.843	ug/ml	95
31) 2-Chloroaniline	7.007	127	19168	1.886	ug/ml	96
55) a-Terpineol	7.513	59	15780	1.804	ug/ml	96
56) 3-Chloroaniline	7.525	65	7673	1.863	ug/ml	78
57) 2,6-Dichlorophenol	7.548	162	12255	1.753	ug/ml#	88
58) 1-chloro-2-nitrobenzene	7.819	111	6474	1.785	ug/ml#	1
59) Caprolactam	7.860	55	7774	1.657	ug/ml#	93
60) 1,2,4,5-Tetrachloroben...	8.342	216	16714	1.897	ug/ml	98
61) Biphenyl	8.642	154	42481	1.945	ug/ml	98
83) Dichloran	10.313	206	2993	1.502	ug/ml	81
84) Pentachloronitrobenzene	10.454	237	3816	1.728	ug/ml#	81
98) Diphenamid	11.518	167	22007	1.622	ug/ml	89

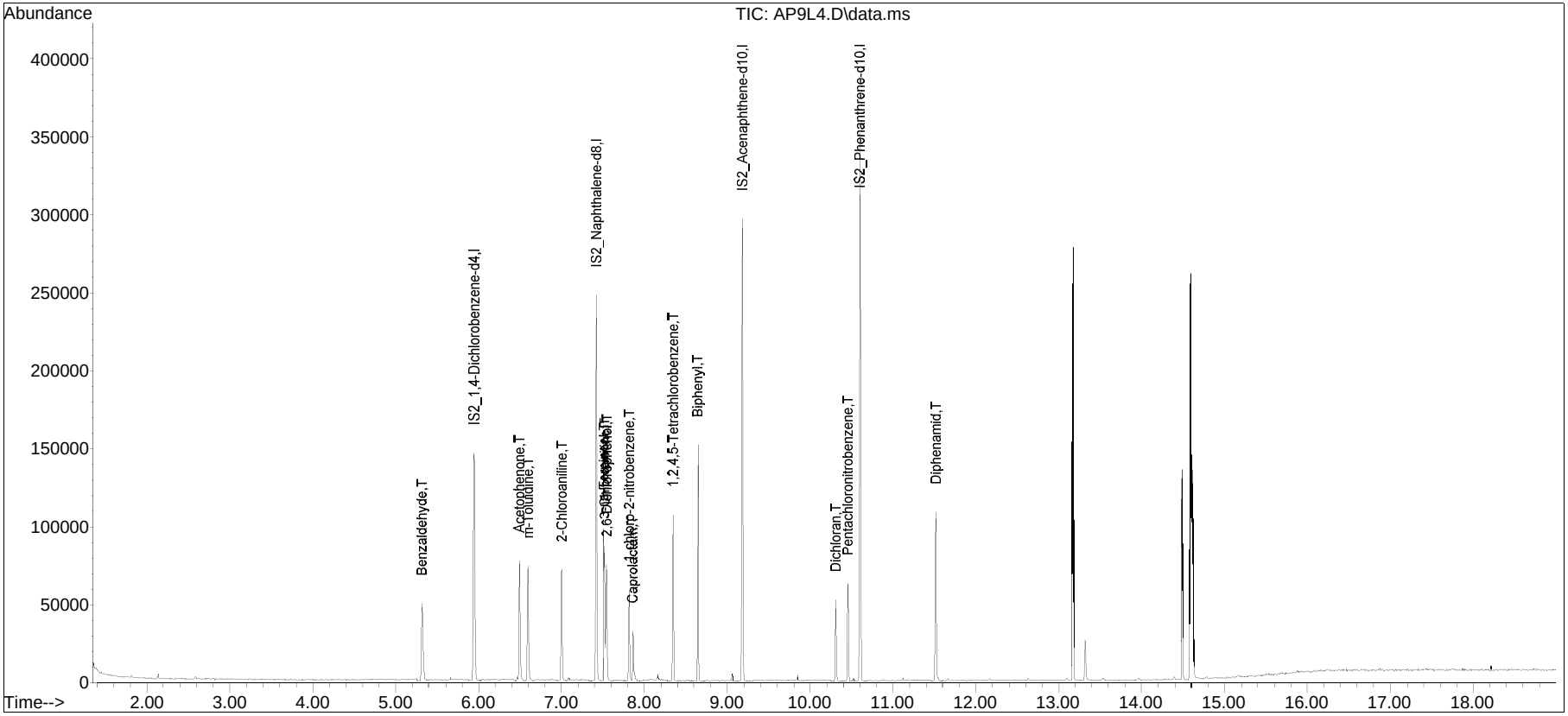
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L4.D
Acq On : 26 Oct 2023 7:13 am
Operator : SV107:cmm
Sample : IL7,32,,AP9L2 Lot# 10301
Misc : WG1845543,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 27 12:39:31 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



FS231025SV107.m Sat Oct 28 17:40:25 2023 Page: 2

Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: AP9L4.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 7:13 am	Instrument	: SV107
Sample	: IL7,32,,AP9L2 Lot# 10301	Quant Date	: 10/27/2023 11:25 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L3.D
Acq On : 26 Oct 2023 7:39 am
Operator : SV107:cmm
Sample : IL8,32,,AP9L1 Lot# 10302
Misc : WG1845543,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 27 12:38:52 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.948	152	27223	4.000	ug/ml	0.00
Standard Area 1 = 27390			Recovery = 99.39%			
54) IS2_Naphthalene-d8	7.425	136	103607	4.000	ug/ml	0.00
Standard Area 1 = 102934			Recovery = 100.65%			
82) IS2_Acenaphthene-d10	9.183	164	57575	4.000	ug/ml	0.00
Standard Area 1 = 61011			Recovery = 94.37%			
97) IS2_Phenanthrene-d10	10.601	188	120117	4.000	ug/ml	0.00
Standard Area 1 = 122772			Recovery = 97.84%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.325	105	5725	0.854	ug/ml	92
29) Acetophenone	6.495	105	9802	0.842	ug/ml#	89
30) m-Toluidine	6.595	106	8228	0.745	ug/ml	94
31) 2-Chloroaniline	7.007	127	8628	0.830	ug/ml	95
55) a-Terpineol	7.513	59	6879	0.781	ug/ml	97
56) 3-Chloroaniline	7.525	65	3186	0.769	ug/ml	75
57) 2,6-Dichlorophenol	7.548	162	5130	0.729	ug/ml#	84
58) 1-chloro-2-nitrobenzene	7.819	111	2798	0.767	ug/ml#	1
59) Caprolactam	7.866	55	2895	0.613	ug/ml#	87
60) 1,2,4,5-Tetrachloroben...	8.342	216	7587	0.856	ug/ml	96
61) Biphenyl	8.642	154	18607	0.847	ug/ml	98
83) Dichloran	10.313	206	1089	0.549	ug/ml	94
84) Pentachloronitrobenzene	10.454	237	1590	0.723	ug/ml	87
98) Diphenamid	11.519	167	9449	0.688	ug/ml	88

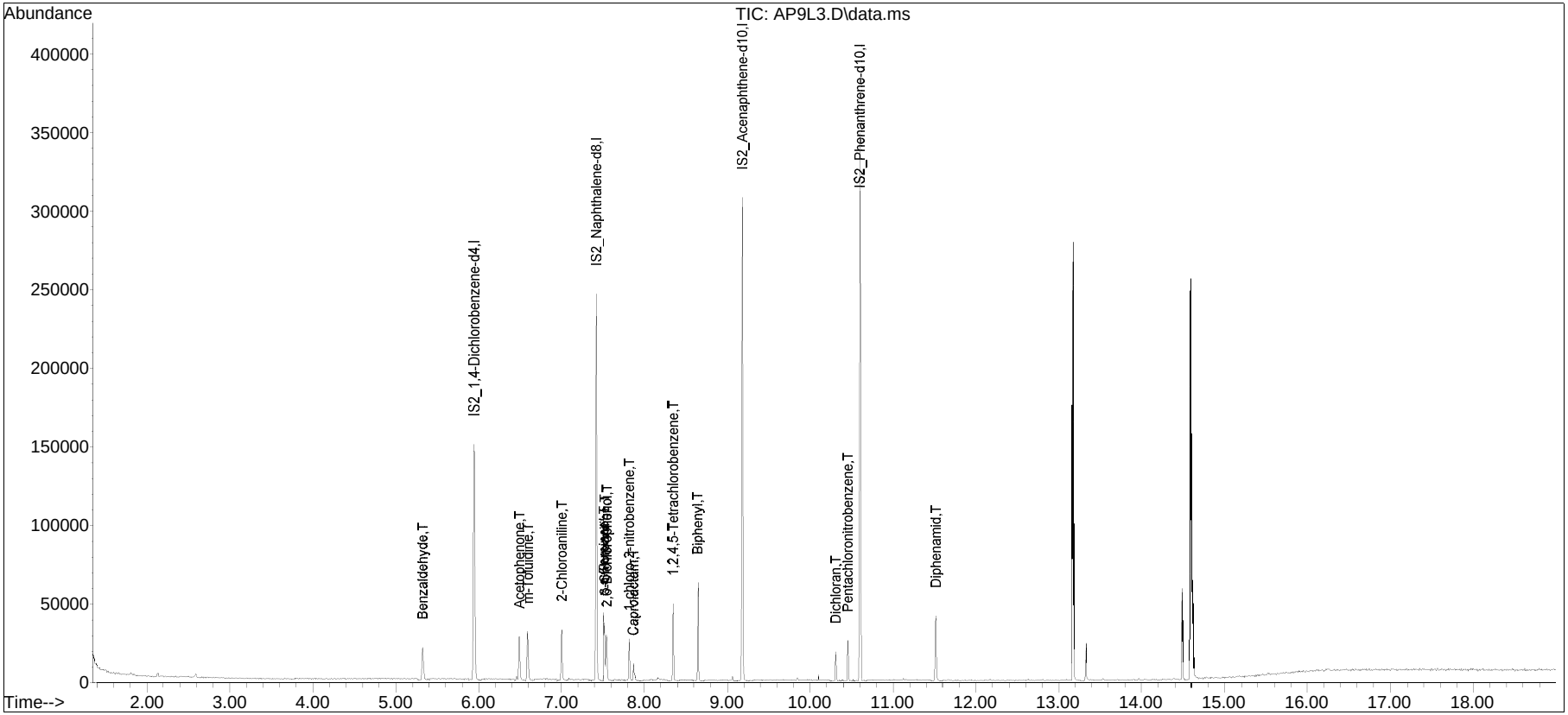
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L3.D
Acq On : 26 Oct 2023 7:39 am
Operator : SV107:cmm
Sample : IL8,32,,AP9L1 Lot# 10302
Misc : WG1845543,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 27 12:38:52 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: AP9L3.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 7:39 am	Instrument	: SV107
Sample	: IL8,32,,AP9L1 Lot# 10302	Quant Date	: 10/27/2023 11:25 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L2.D
Acq On : 26 Oct 2023 8:04 am
Operator : SV107:cmm
Sample : IL9,32,,AP9L0.4 Lot# 10303
Misc : WG1845543,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 27 12:37:52 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.948	152	29075	4.000	ug/ml	0.00
Standard Area 1 = 27390			Recovery =	106.15%		
54) IS2_Naphthalene-d8	7.425	136	108444	4.000	ug/ml	0.00
Standard Area 1 = 102934			Recovery =	105.35%		
82) IS2_Acenaphthene-d10	9.183	164	60768	4.000	ug/ml	0.00
Standard Area 1 = 61011			Recovery =	99.60%		
97) IS2_Phenanthrene-d10	10.601	188	119736	4.000	ug/ml	0.00
Standard Area 1 = 122772			Recovery =	97.53%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.331	105	2310	0.322	ug/ml	95
29) Acetophenone	6.495	105	4575	0.368	ug/ml#	82
30) m-Toluidine	6.601	106	3524	0.299	ug/ml	91
31) 2-Chloroaniline	7.007	127	3988	0.359	ug/ml	95
55) a-Terpineol	7.513	59	3216	0.349	ug/ml	95
56) 3-Chloroaniline	7.525	65	1405	0.324	ug/ml	80
57) 2,6-Dichlorophenol	7.548	162	2302	0.313	ug/ml#	90
58) 1-chloro-2-nitrobenzene	7.819	111	1214	0.318	ug/ml#	1
59) Caprolactam	7.872	55	1247	0.252	ug/ml#	56
60) 1,2,4,5-Tetrachloroben...	8.342	216	3664	0.395	ug/ml	98
61) Biphenyl	8.642	154	8724	0.379	ug/ml	99
83) Dichloran	10.313	206	519	0.248	ug/ml#	74
84) Pentachloronitrobenzene	10.460	237	628	0.271	ug/ml	94
98) Diphenamid	11.518	167	3993	0.292	ug/ml	87

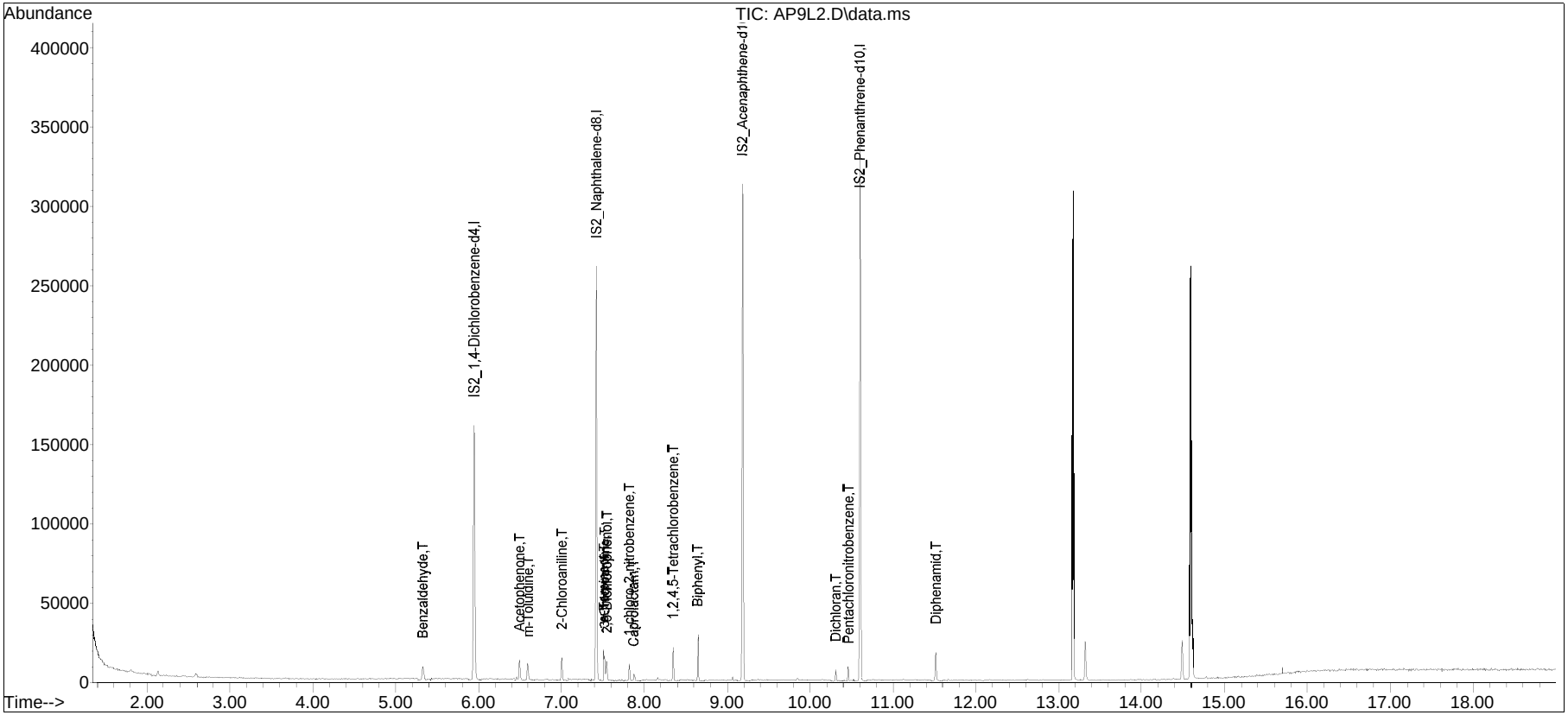
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L2.D
Acq On : 26 Oct 2023 8:04 am
Operator : SV107:cmm
Sample : IL9,32,,AP9L0.4 Lot# 10303
Misc : WG1845543,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 27 12:37:52 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: AP9L2.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 8:04 am	Instrument	: SV107
Sample	: IL9,32,,AP9L0.4 Lot# 10303	Quant Date	: 10/27/2023 11:25 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L1.D
Acq On : 26 Oct 2023 8:30 am
Operator : SV107:cmm
Sample : IL10,32,,AP9L0.2 Lot# 10304
Misc : WG1845543,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 27 12:02:49 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.948	152	26284	4.000	ug/ml	0.00
Standard Area 1 = 27390			Recovery = 95.96%			
54) IS2_Naphthalene-d8	7.425	136	100234	4.000	ug/ml	0.00
Standard Area 1 = 102934			Recovery = 97.38%			
82) IS2_Acenaphthene-d10	9.183	164	55819	4.000	ug/ml	0.00
Standard Area 1 = 61011			Recovery = 91.49%			
97) IS2_Phenanthrene-d10	10.601	188	114482	4.000	ug/ml	0.00
Standard Area 1 = 122772			Recovery = 93.25%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.331	105	916	0.141	ug/ml	95
29) Acetophenone	6.501	105	2011	0.179	ug/ml#	76
30) m-Toluidine	6.601	106	1197	0.112	ug/ml#	77
31) 2-Chloroaniline	7.007	127	1528	0.152	ug/ml	98
55) a-Terpineol	7.513	59	1516	0.178	ug/ml	91
56) 3-Chloroaniline	7.530	65	578	0.144	ug/ml#	88
57) 2,6-Dichlorophenol	7.548	162	966	0.142	ug/ml#	88
58) 1-chloro-2-nitrobenzene	7.819	111	595	0.169	ug/ml#	1
59) Caprolactam	7.889	55	551	0.121	ug/ml#	43
60) 1,2,4,5-Tetrachloroben...	8.342	216	1595	0.186	ug/ml#	89
61) Biphenyl	8.648	154	3806	0.179	ug/ml	98
83) Dichloran	10.313	206	188M2	0.098	ug/ml	
84) Pentachloronitrobenzene	10.454	237	208M2	0.098	ug/ml	
98) Diphenamid	11.518	167	1793	0.137	ug/ml	87

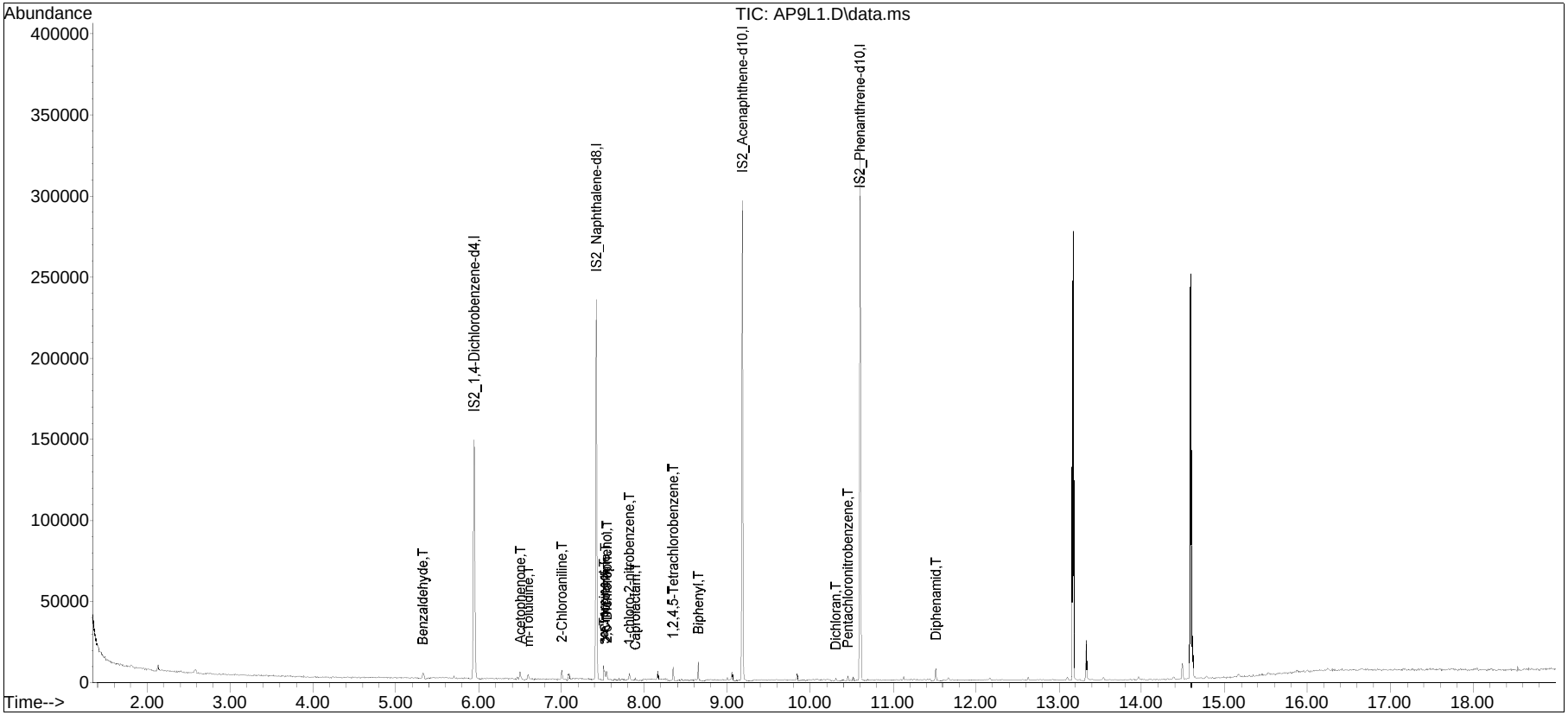
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9L1.D
Acq On : 26 Oct 2023 8:30 am
Operator : SV107:cmm
Sample : IL10,32,,AP9L0.2 Lot# 10304
Misc : WG1845543,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 27 12:02:49 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

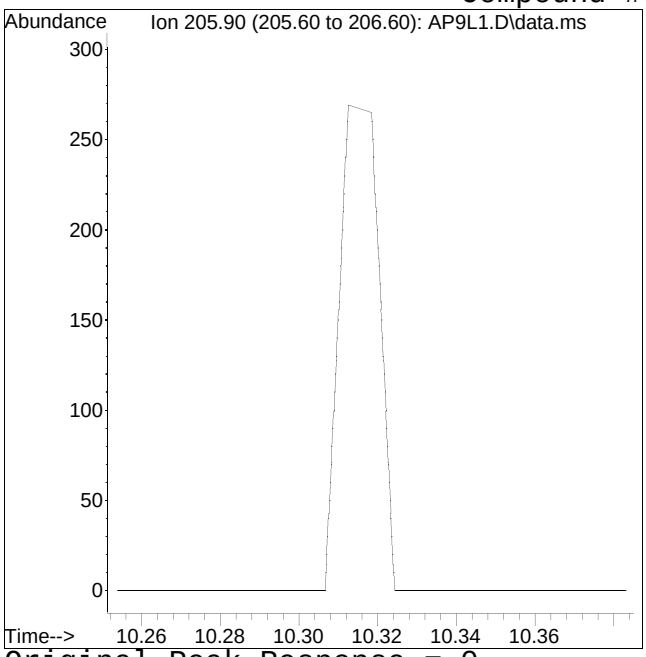
Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•



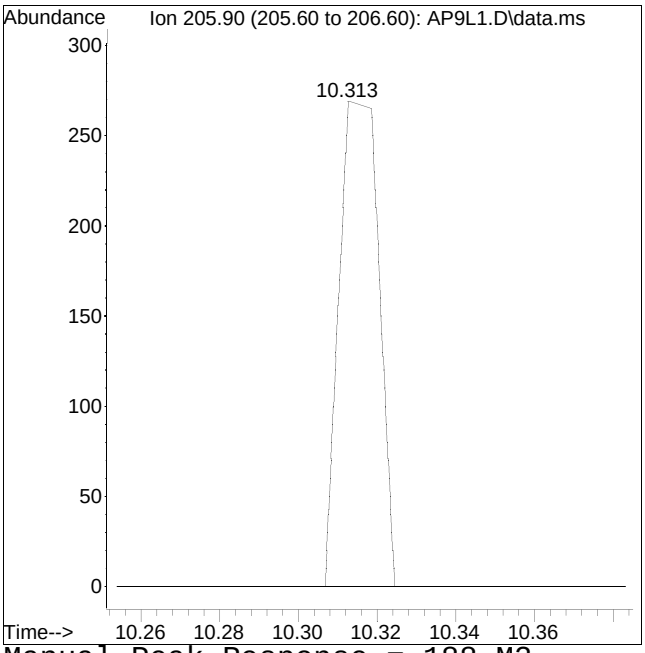
Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : AP9L1.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 8:30 am Instrument : SV107
Sample : IL10,32,,AP9L0.2 Lot# 1030Quant Date : 10/27/2023 11:24 am

Compound #83: Dichloran



Original Peak Response = 0



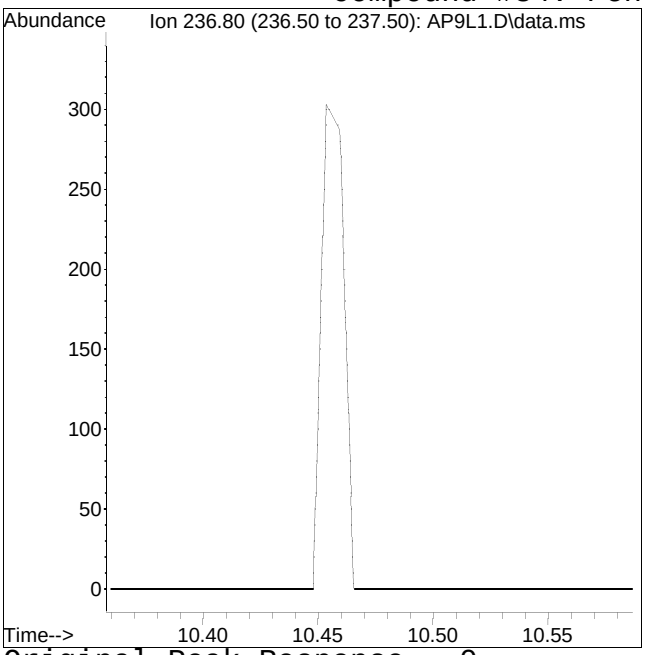
Manual Peak Response = 188 M2

M2 = Peak not found by automatic integration algorithm.

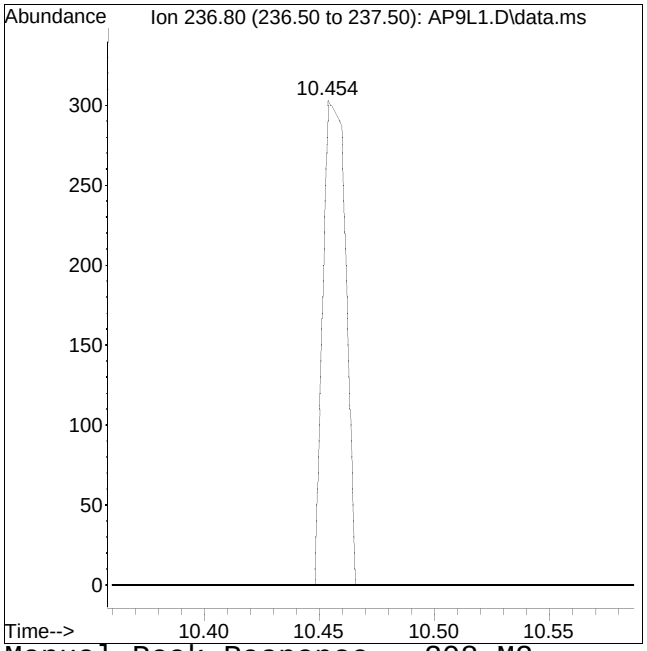
Manual Integration Report

Data Path : I:\8270\SV107\231025ical\ QMethod : FS231025SV107.m
Data File : AP9L1.D Operator : SV107:cmm
Date Inj'd : 10/26/2023 8:30 am Instrument : SV107
Sample : IL10,32,,AP9L0.2 Lot# 1030 Quant Date : 10/27/2023 11:24 am

Compound #84: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 208 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\231025ical\
Data File : AP9ICV.D
Acq On : 26 Oct 2023 9:21 am
Operator : SV107:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10316
Misc : WG1845543,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 28 17:16:28 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:08:03 2023
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
28	T	Benzaldehyde	0.929	1.038	-11.7	101	0.00
29	T	Acetophenone	1.694	1.783	-5.3	100	0.00
30	T	m-Toluidine	1.560	1.712	-9.7	101	0.00
31	T	2-Chloroaniline	1.486	1.559	-4.9	98	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	97	0.00
55	T	a-Terpineol	0.334	0.345	-3.3	99	0.00
56	T	3-Chloroaniline	0.157	0.163	-3.8	99	0.00
57	T	2,6-Dichlorophenol	0.265	0.273	-3.0	98	0.00
58	T	1-chloro-2-nitrobenzene	0.143	0.145	-1.4	100	0.00
59	T	Caprolactam	0.193	0.186	3.6	99	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.331	0.356	-7.6	101	0.00
61	T	Biphenyl	0.813	0.877	-7.9	100	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	96	0.00
83	T	Dichloran	0.158	0.134	15.2	93	0.00
84	T	Pentachloronitrobenzene	0.161	0.156	3.1	98	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	96	0.00
98	T	Diphenamid	0.448	0.436	2.7	92	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9ICV.D
Acq On : 26 Oct 2023 9:21 am
Operator : SV107:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10316
Misc : WG1845543,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 28 17:16:28 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:08:03 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\AP9L6.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	5.948	152	26277	4.000	ug/ml	0.00
Standard Area 1 = 27390			Recovery = 95.94%			
54) IS2_Naphthalene-d8	7.425	136	100074	4.000	ug/ml	0.00
Standard Area 1 = 102934			Recovery = 97.22%			
82) IS2_Acenaphthene-d10	9.184	164	58309	4.000	ug/ml	0.00
Standard Area 1 = 61011			Recovery = 95.57%			
97) IS2_Phenanthrene-d10	10.601	188	118081	4.000	ug/ml	0.00
Standard Area 1 = 122772			Recovery = 96.18%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.319	105	34098	5.587	ug/ml	96
29) Acetophenone	6.490	105	58578	5.265	ug/ml#	89
30) m-Toluidine	6.595	106	56239	5.488	ug/ml	95
31) 2-Chloroaniline	7.001	127	51211	5.247	ug/ml	96
55) a-Terpineol	7.513	59	43132	5.165	ug/ml	96
56) 3-Chloroaniline	7.525	65	20383	5.192	ug/ml	76
57) 2,6-Dichlorophenol	7.548	162	34136	5.145	ug/ml#	87
58) 1-chloro-2-nitrobenzene	7.819	111	18143	5.088	ug/ml#	1
59) Caprolactam	7.860	55	23252	4.809	ug/ml#	91
60) 1,2,4,5-Tetrachloroben...	8.342	216	44537	5.377	ug/ml	98
61) Biphenyl	8.642	154	109679	5.389	ug/ml	99
83) Dichloran	10.313	206	9735	4.235	ug/ml	81
84) Pentachloronitrobenzene	10.454	237	11375	4.839	ug/ml	86
98) Diphenamid	11.519	167	64351	4.868	ug/ml	88

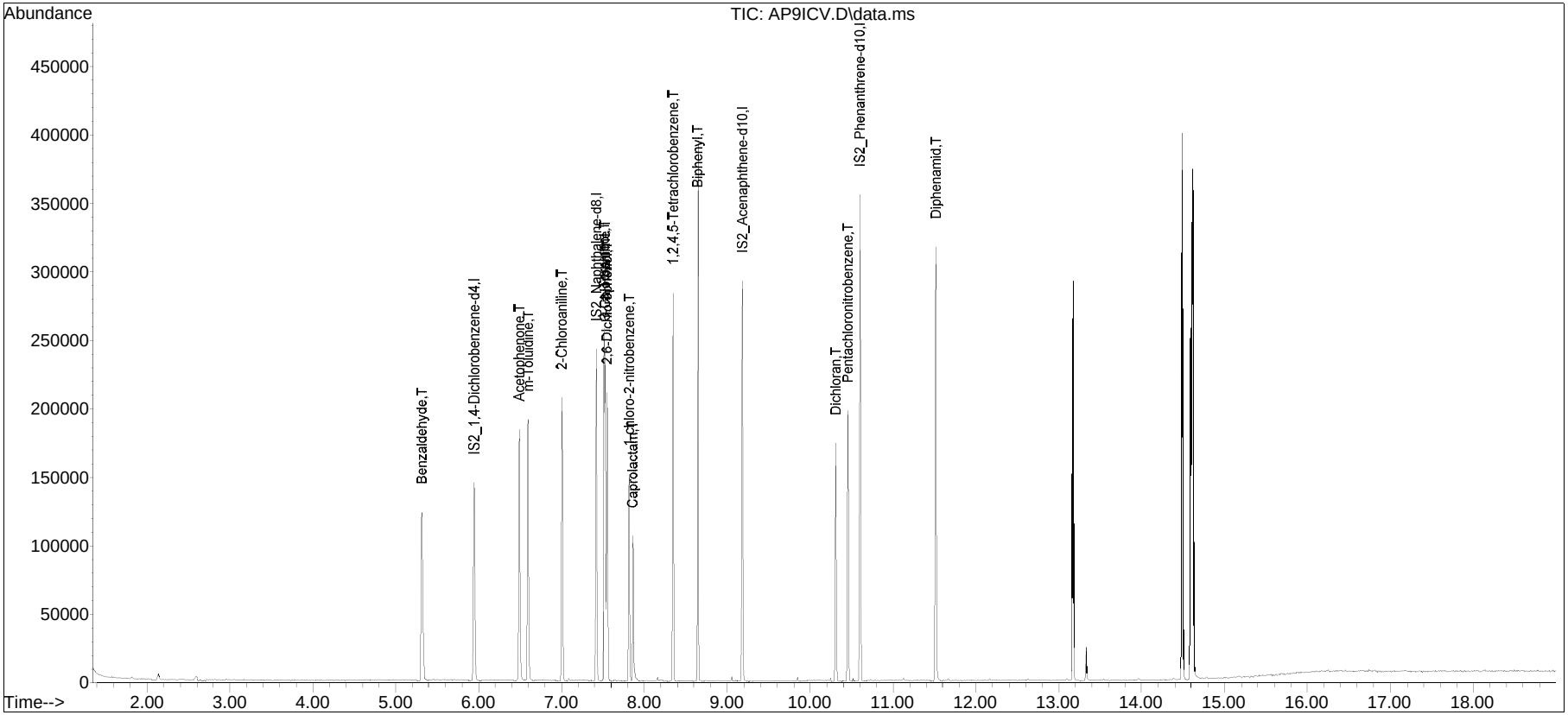
(#) = qualifier out of range (m) = manual integration (+) = signals summed

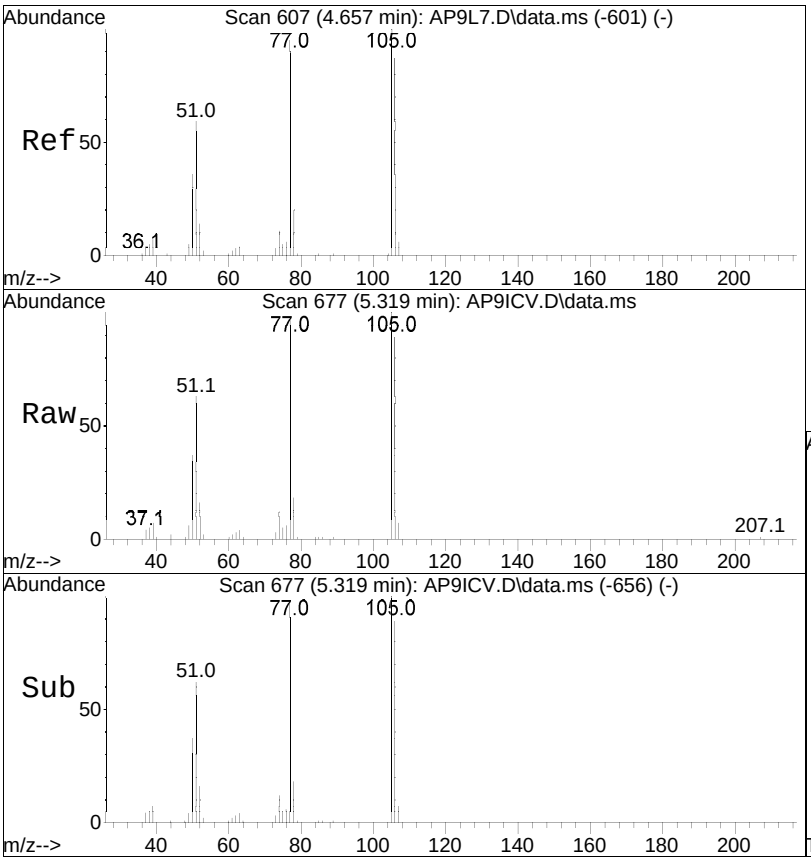
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : AP9ICV.D
Acq On : 26 Oct 2023 9:21 am
Operator : SV107:cmm
Sample : CQICV2,32,,AP9ICV Lot# 10316
Misc : WG1845543,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 28 17:16:28 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:08:03 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L6.D•

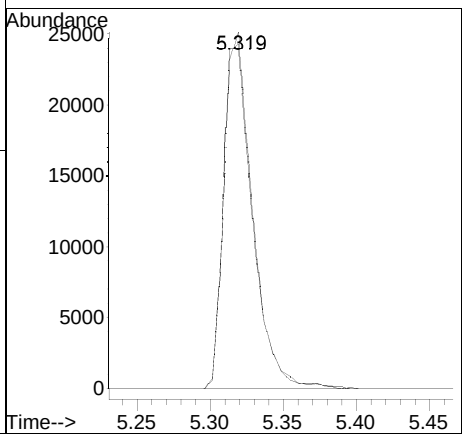


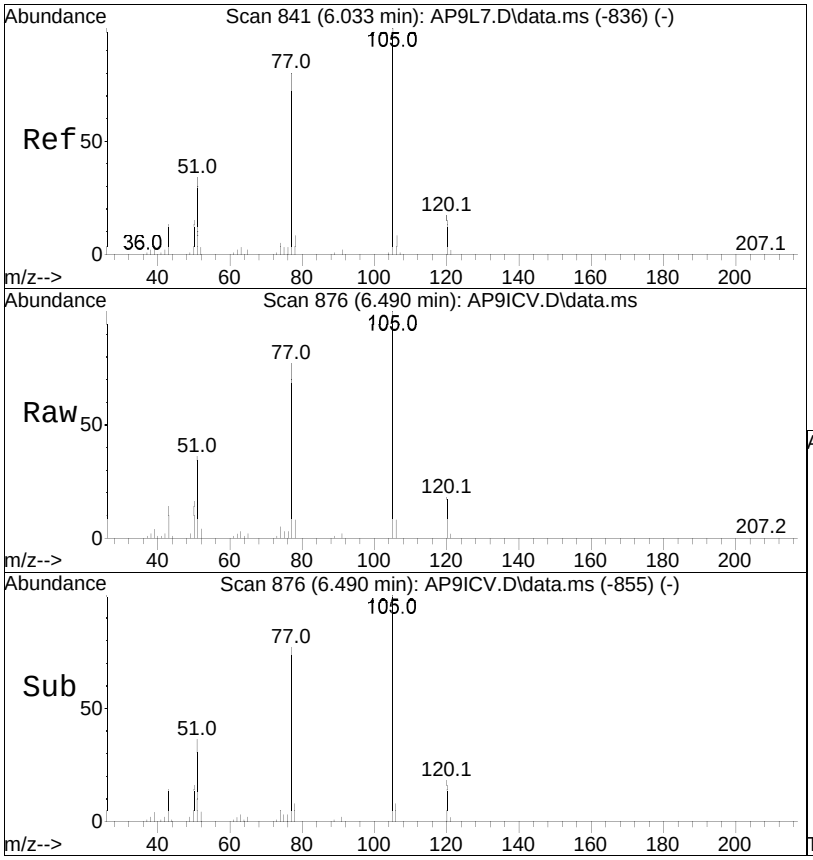


#28
Benzaldehyde
Concen: 5.59 ug/ml
RT: 5.319 min Scan# 677
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion:105 Resp: 34098

Ion	Ratio	Lower	Upper
105	100		
77	98.6	82.2	123.4

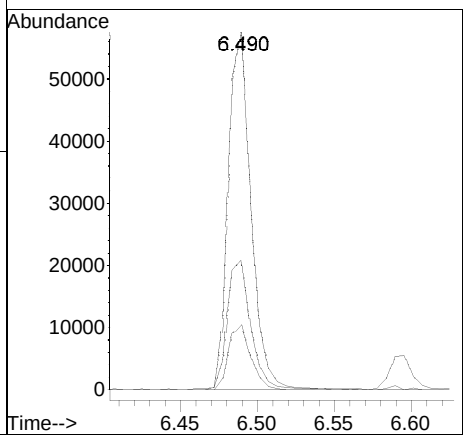


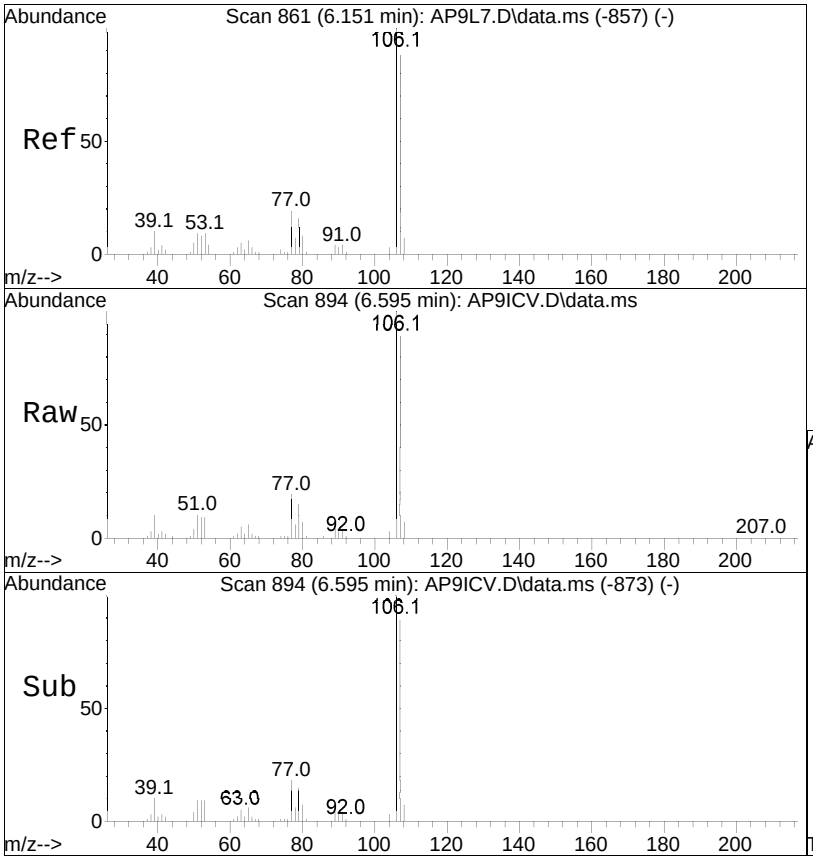


#29
Acetophenone
Concen: 5.26 ug/ml
RT: 6.490 min Scan# 876
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion:105 Resp: 58578

Ion	Ratio	Lower	Upper
105	100		
120	17.9	20.5	30.7#
51	38.1	34.9	52.3

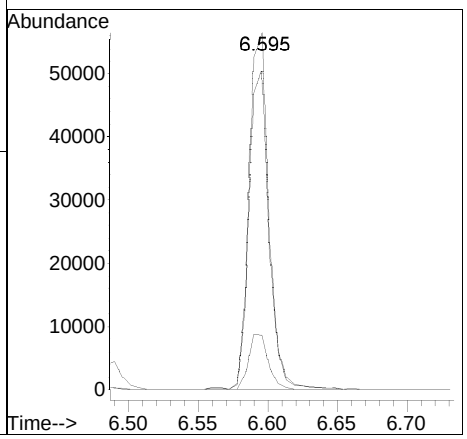


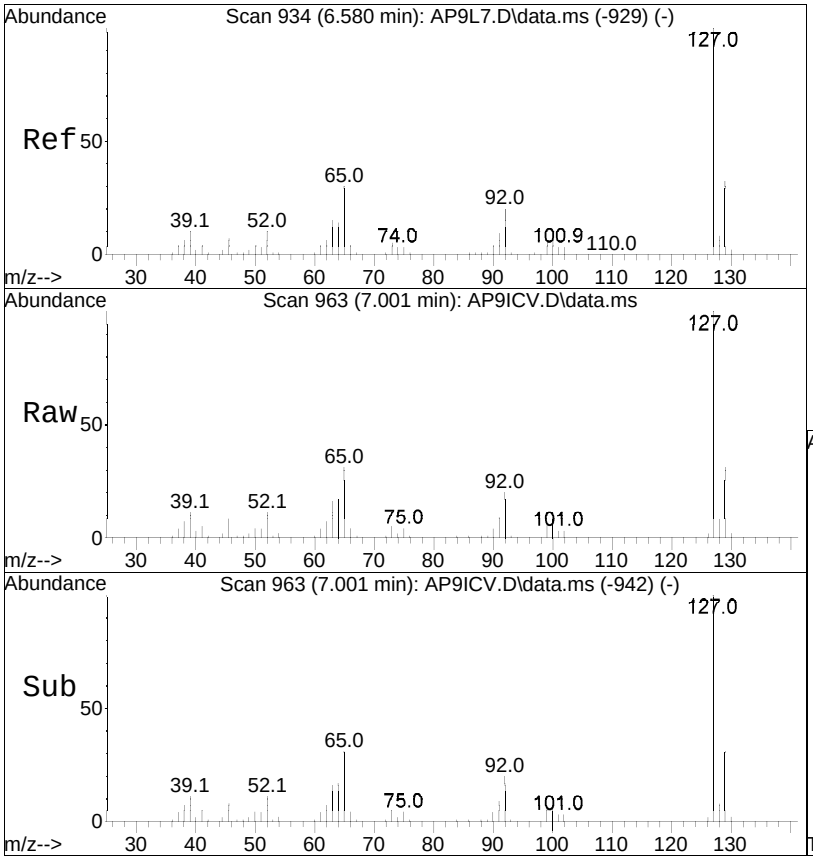


#30
m-Toluidine
Concen: 5.49 ug/ml
RT: 6.595 min Scan# 894
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion:106 Resp: 56239

Ion	Ratio	Lower	Upper
106	100		
107	89.0	75.7	113.5
79	15.2	11.8	17.8

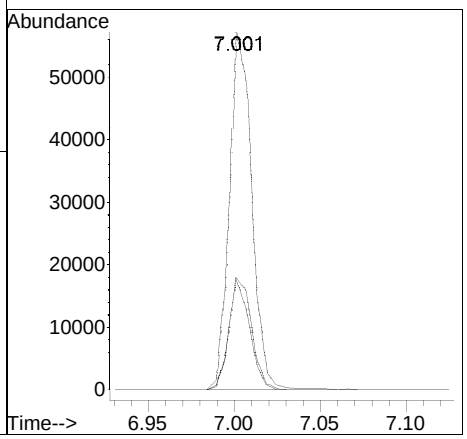


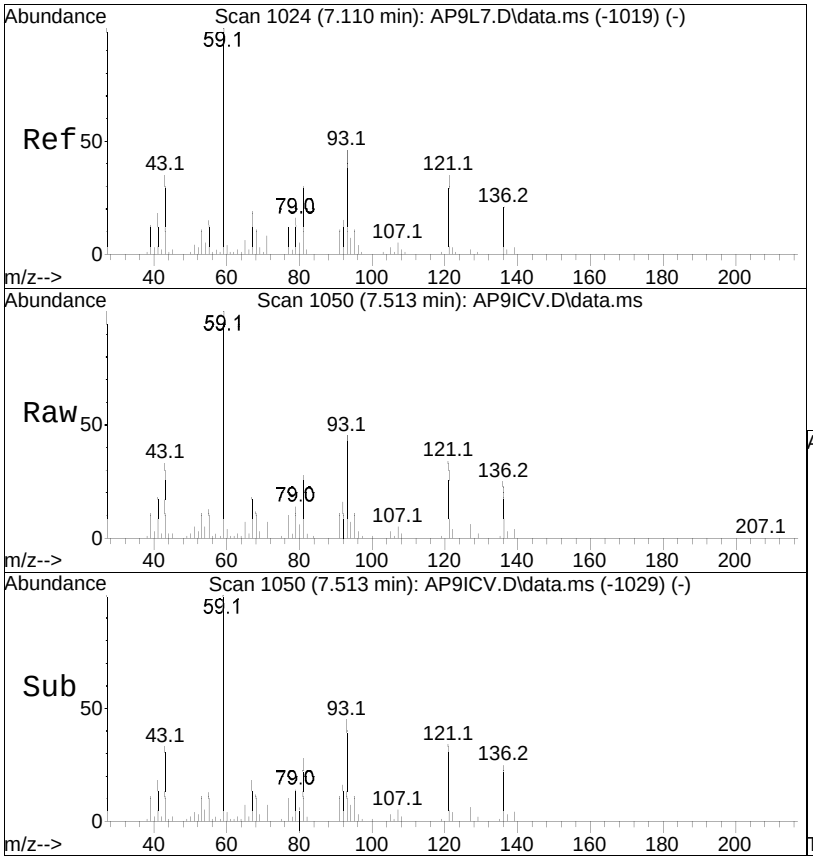


#31
2-Chloroaniline
Concen: 5.25 ug/ml
RT: 7.001 min Scan# 963
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion:127 Resp: 51211

Ion	Ratio	Lower	Upper
127	100		
129	31.7	25.9	38.9
65	29.0	26.3	39.5

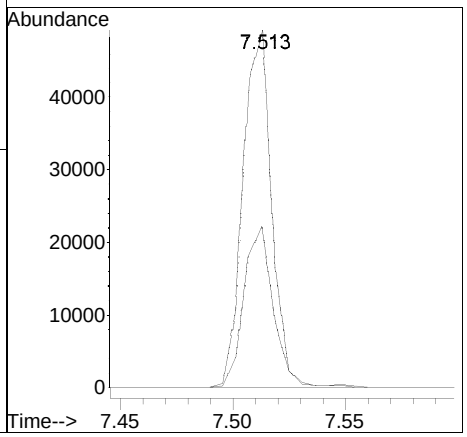


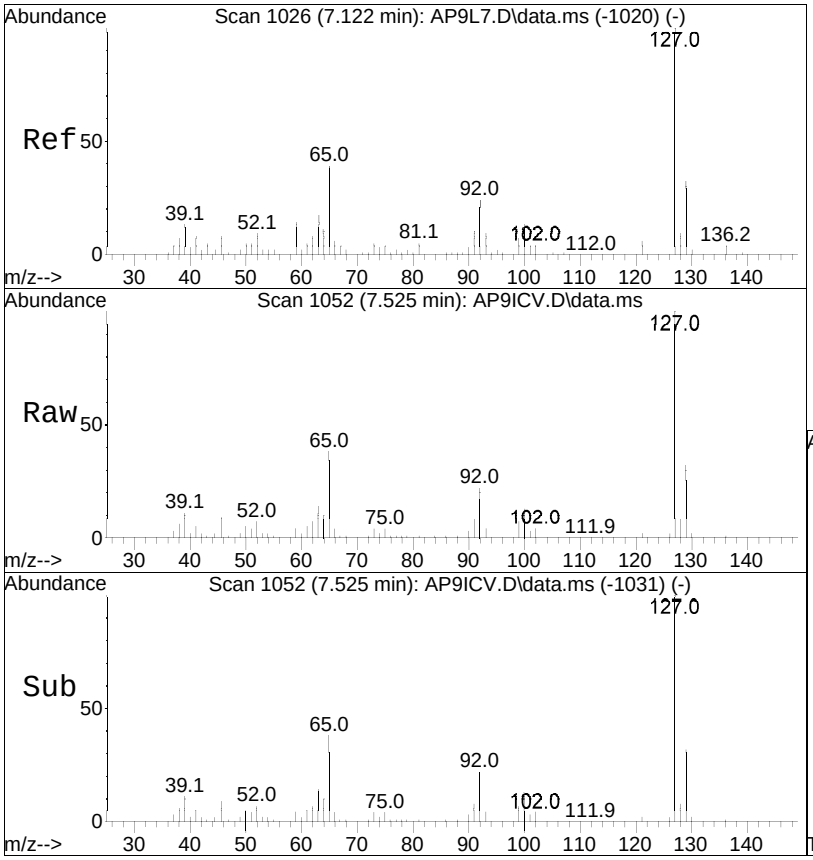


#55
a-Terpineol
Concen: 5.17 ug/ml
RT: 7.513 min Scan# 1050
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion: 59 Resp: 43132

Ion	Ratio	Lower	Upper
59	100		
93	47.0	35.6	53.4

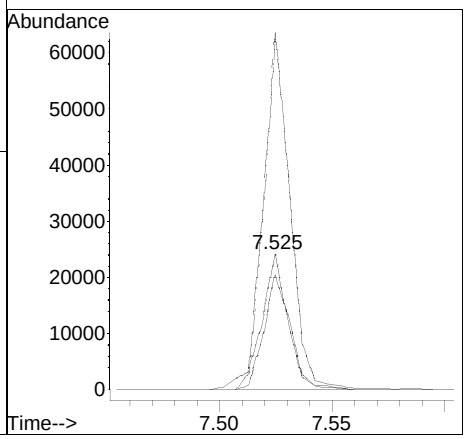


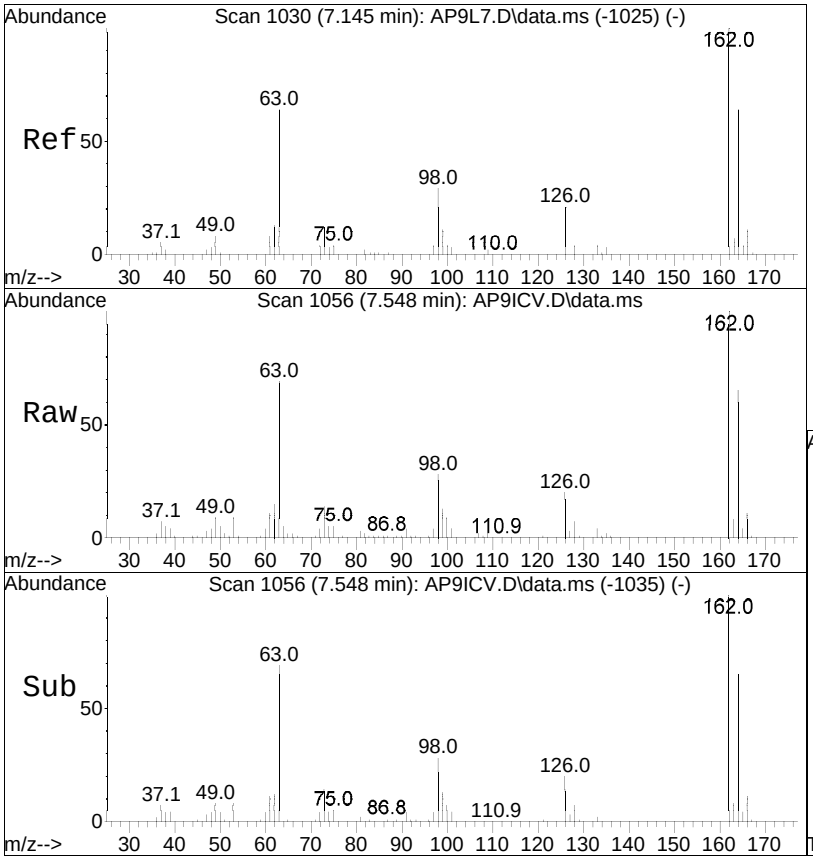


#56
3-Chloroaniline
Concen: 5.19 ug/ml
RT: 7.525 min Scan# 1052
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion: 65 Resp: 20383

Ion	Ratio	Lower	Upper
65	100		
127	251.9	243.2	364.8
129	82.5	78.8	118.2

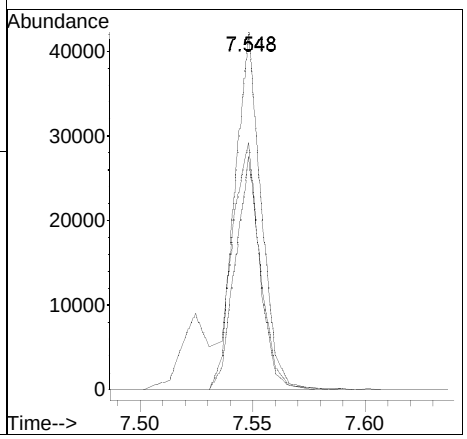


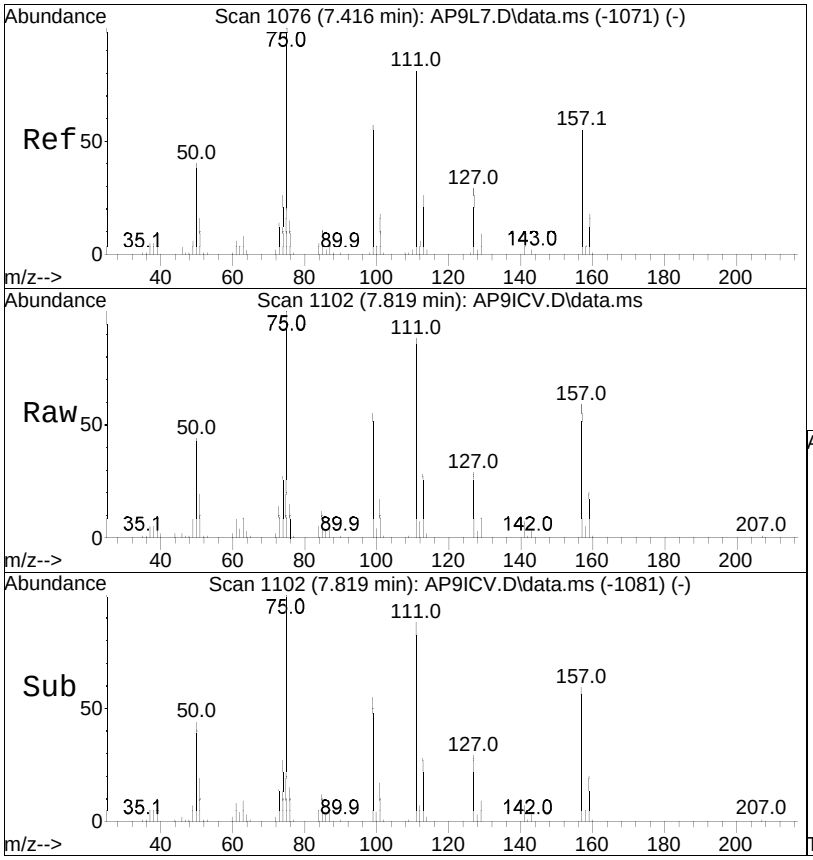


#57
2,6-Dichlorophenol
Concen: 5.15 ug/ml
RT: 7.548 min Scan# 1056
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion:162 Resp: 34136

Ion	Ratio	Lower	Upper
162	100		
164	63.3	51.1	76.7
63	95.3	60.8	91.2#

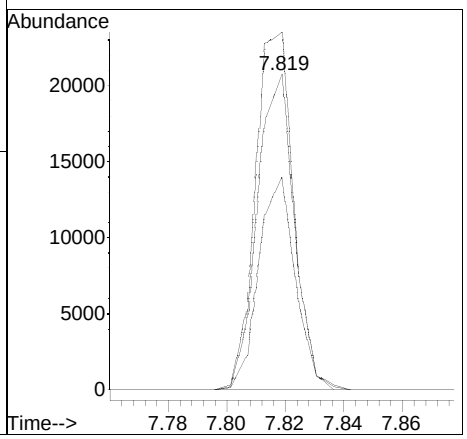


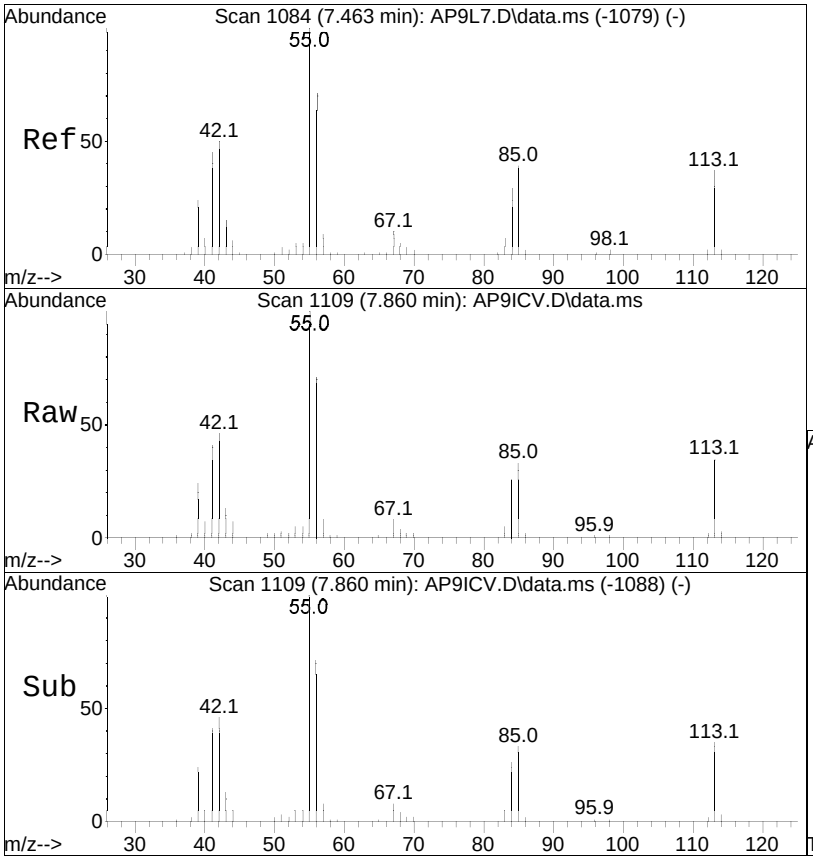


#58
1-chloro-2-nitrobenzene
Concen: 5.09 ug/ml
RT: 7.819 min Scan# 1102
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion:111 Resp: 18143

Ion	Ratio	Lower	Upper
111	100		
157	66.6	0.0	0.0#
75	117.2	28.2	42.2#

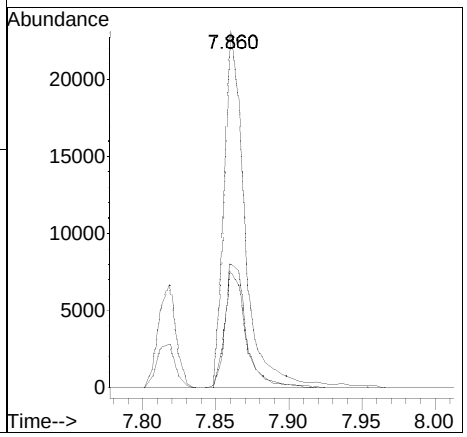


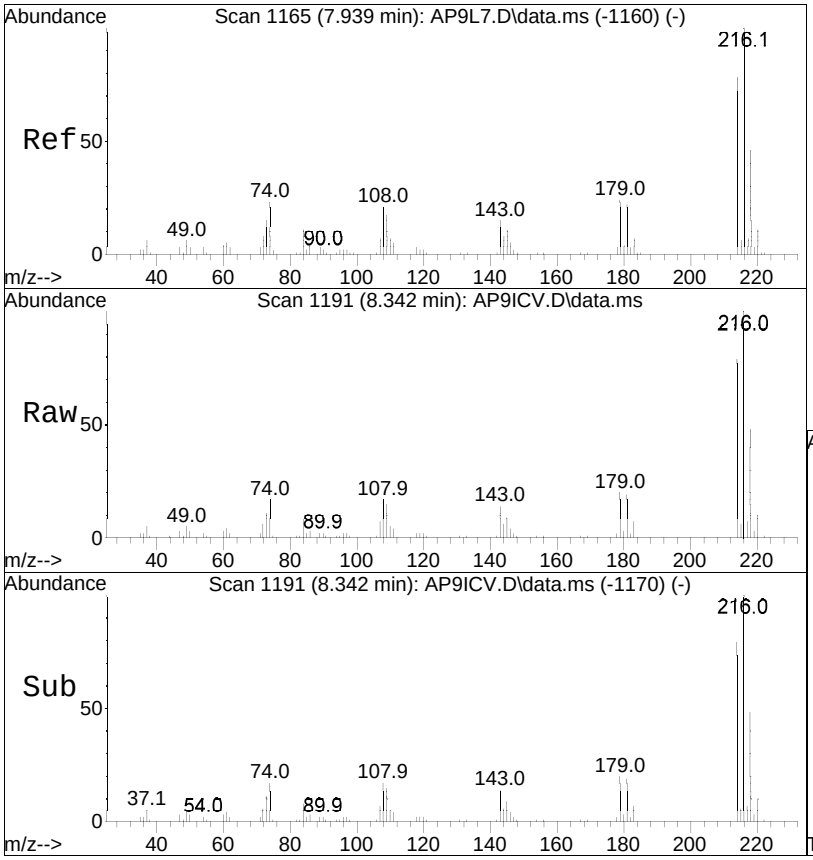


#59
Caprolactam
Concen: 4.81 ug/ml
RT: 7.860 min Scan# 1109
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion: 55 Resp: 23252

Ion	Ratio	Lower	Upper
55	100		
85	33.4	19.8	29.6#
113	35.1	29.6	44.4

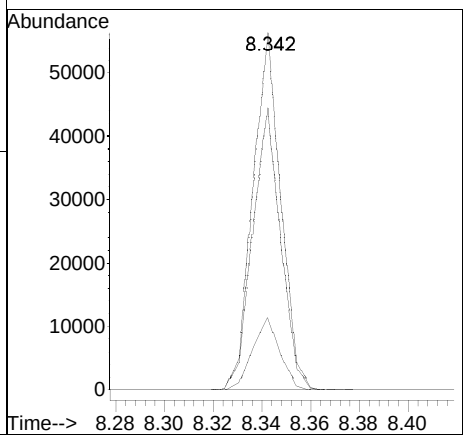


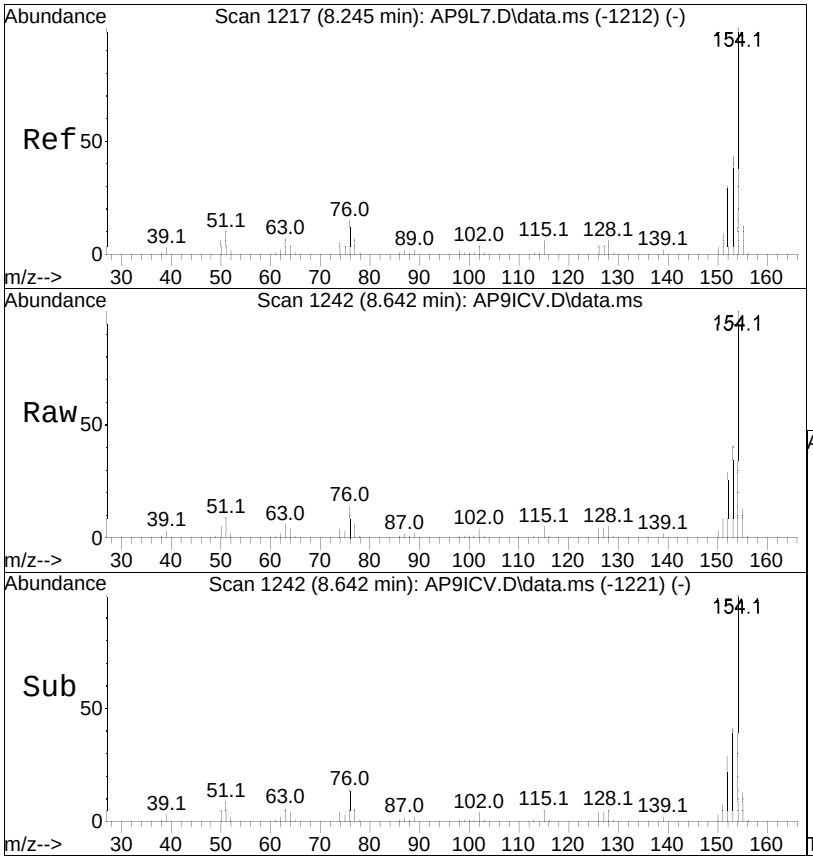


#60
1,2,4,5-Tetrachlorobenzene
Concen: 5.38 ug/ml
RT: 8.342 min Scan# 1191
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion:216 Resp: 44537

Ion	Ratio	Lower	Upper
216	100		
214	79.3	63.7	95.5
179	19.8	19.0	28.6

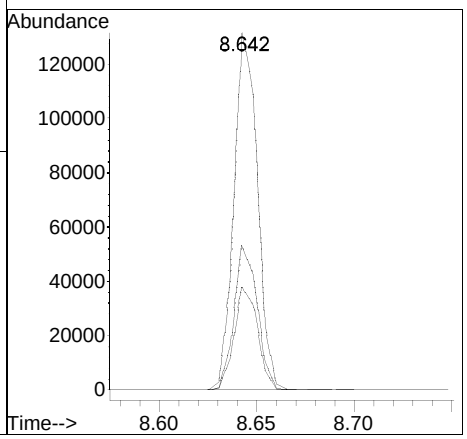


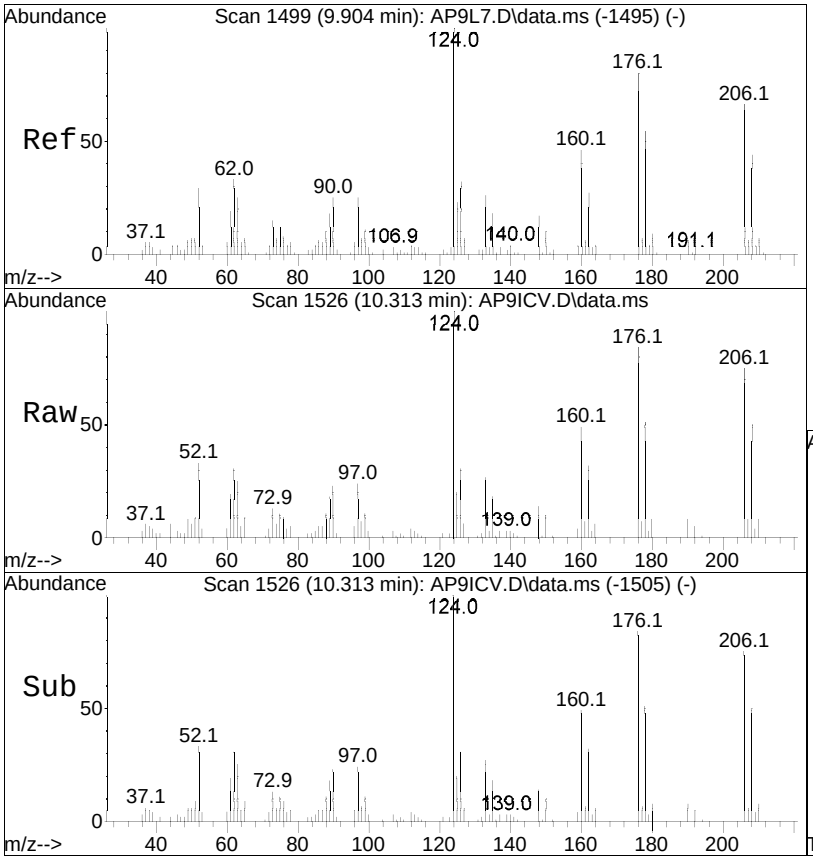


#61
Biphenyl
Concen: 5.39 ug/ml
RT: 8.642 min Scan# 1242
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion:154 Resp: 109679

Ion	Ratio	Lower	Upper
154	100		
153	40.1	32.3	48.5
152	28.9	22.5	33.7

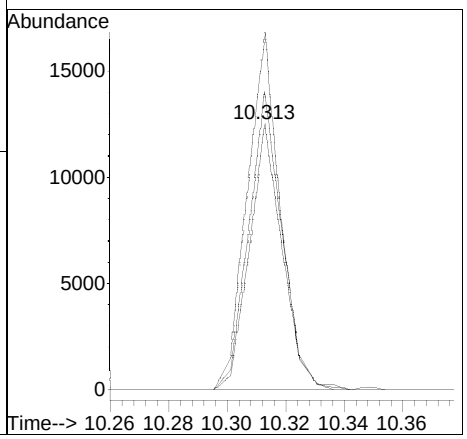


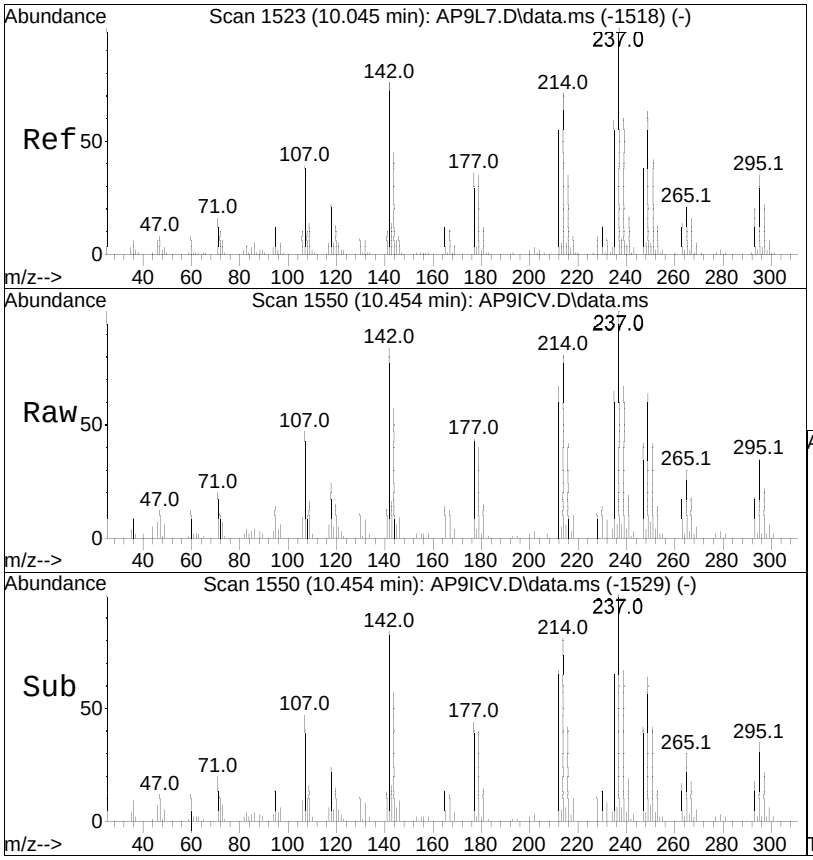


#83
Dichloran
Concen: 4.24 ug/ml
RT: 10.313 min Scan# 1526
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion:206 Resp: 9735

Ion	Ratio	Lower	Upper
206	100		
176	112.9	104.6	157.0
124	133.6	130.5	195.7

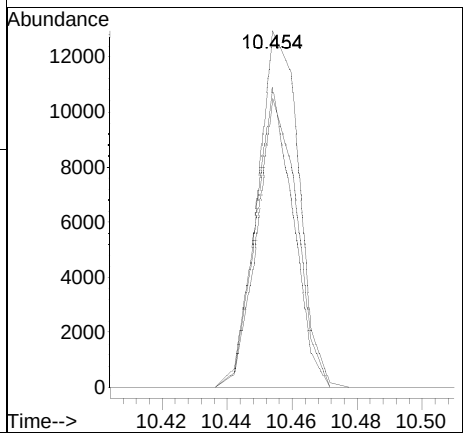


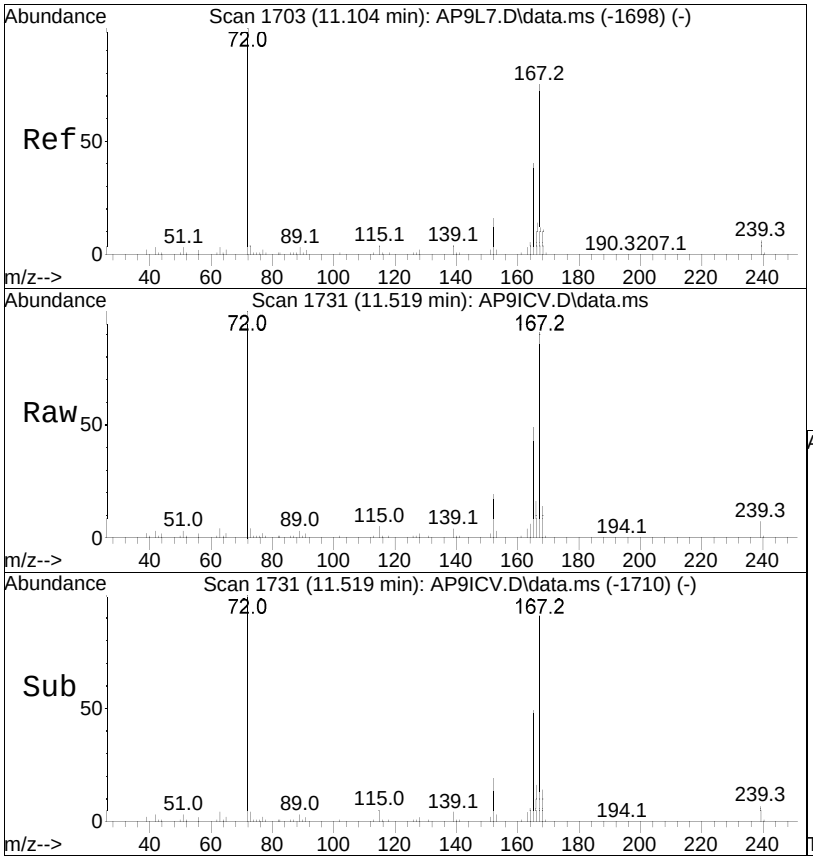


#84
Pentachloronitrobenzene
Concen: 4.84 ug/ml
RT: 10.454 min Scan# 1550
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion:237 Resp: 11375

Ion	Ratio	Lower	Upper
237	100		
142	77.5	77.0	115.4
214	78.4	58.2	87.4

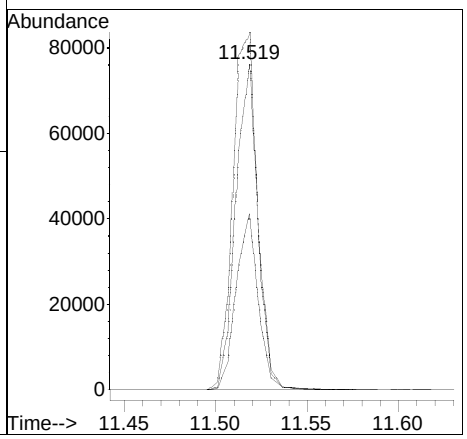




#98
Diphenamid
Concen: 4.87 ug/ml
RT: 11.519 min Scan# 1731
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 26 Oct 2023 9:21 am

Tgt Ion:167 Resp: 64351

Ion	Ratio	Lower	Upper
167	100		
72	118.9	109.7	164.5
165	54.4	41.8	62.6



Manual Integration Report

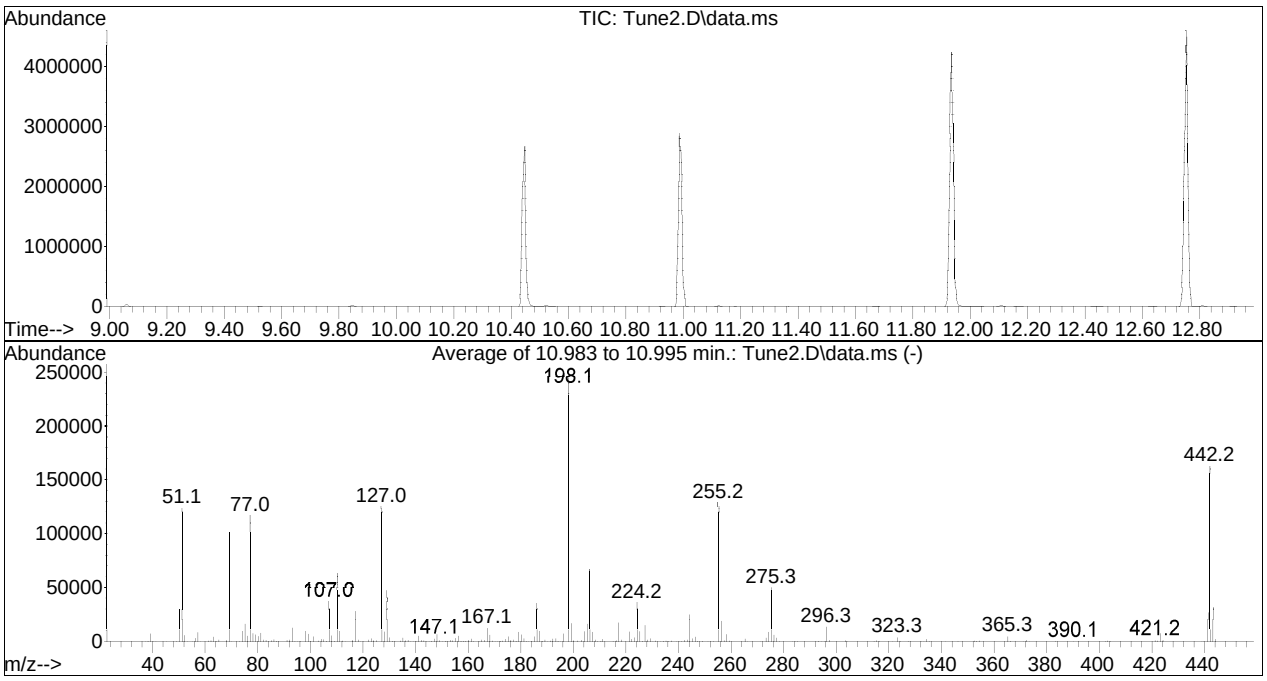
Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: AP9ICV.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 9:21 am	Instrument	: SV107
Sample	: CQICV2,32,,AP9ICV Lot# 103	Quant Date	: 10/28/2023 5:16 pm

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

Data Path : I:\8270\SV107\231025ical\
Data File : Tune2.D
Acq On : 26 Oct 2023 9:47 am
Operator : SV107:cmm
Sample : Tune
Misc : WG1845543,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\231025ical\FS231025SV107.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Oct 28 17:08:03 2023



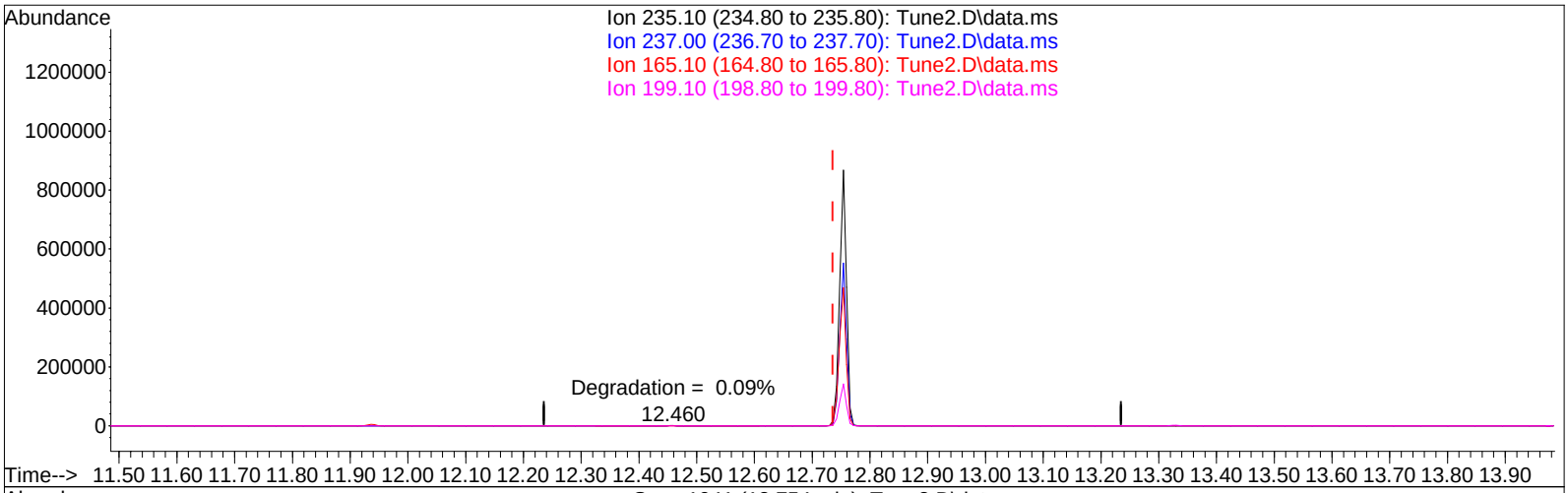
Spectrum Information: Average of 10.983 to 10.995 min.

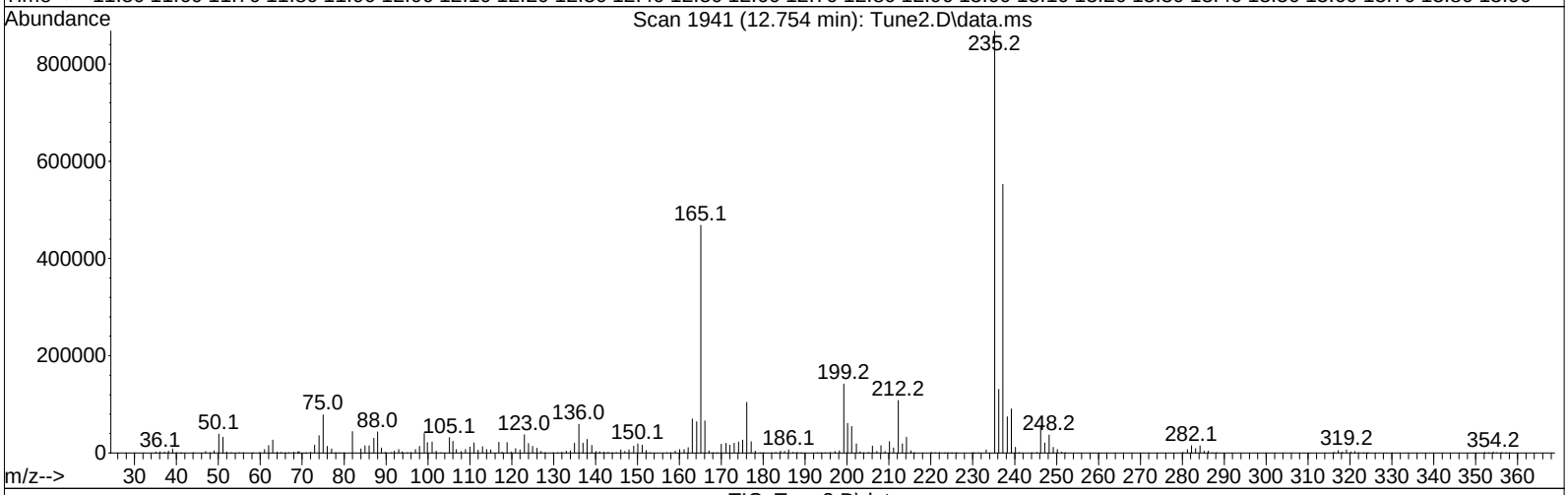
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	50.5	123603	PASS
68	69	0.00	2	1.6	1674	PASS
69	69	100	100	100.0	101491	PASS
70	69	0.00	2	0.5	547	PASS
127	198	10	80	51.0	124885	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	244928	PASS
199	198	5	9	6.7	16391	PASS
275	198	10	60	20.2	49395	PASS
365	198	1	100	2.1	5079	PASS
441	442	0.01	24	16.2	26379	PASS
442	198	50	100	66.4	162616	PASS
443	442	15	24	19.5	31725	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231025ical\
Data File : Tune2.D
Acq On : 26 Oct 2023 9:47 am
Operator : SV107:cmm
Sample : Tune
Misc : WG1845543,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 28 17:29:12 2023
Quant Method : I:\8270\SV107\231025ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:28:54 2023
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(6) DDT (T)

12.754min (+ 0.018) 119.52

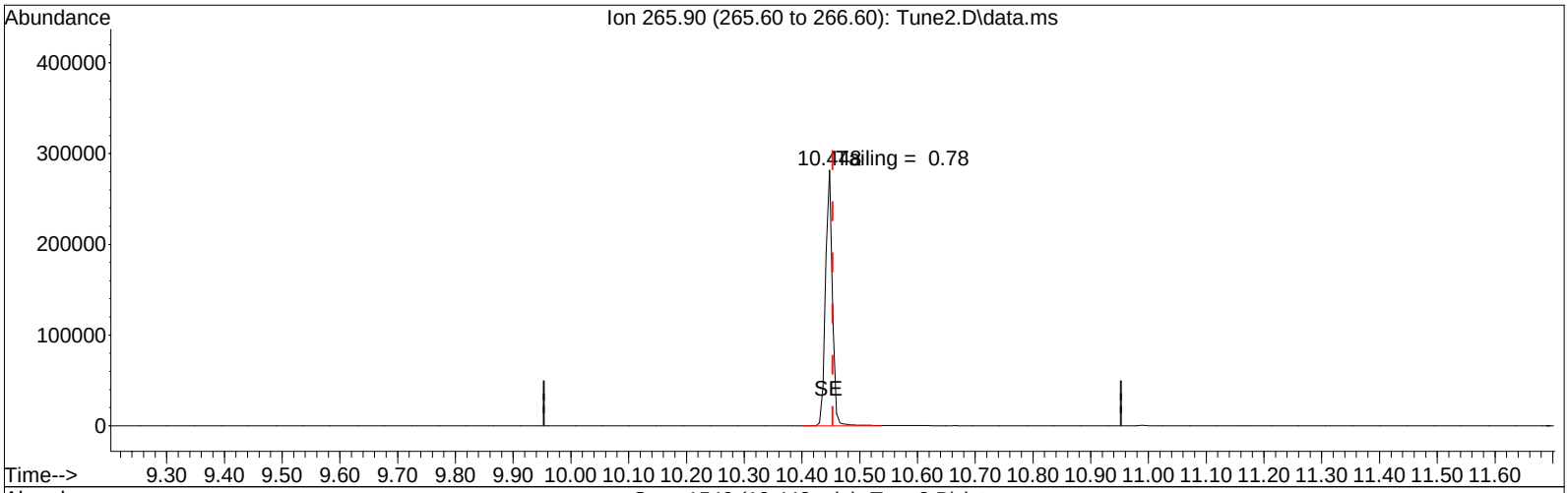
response 728589

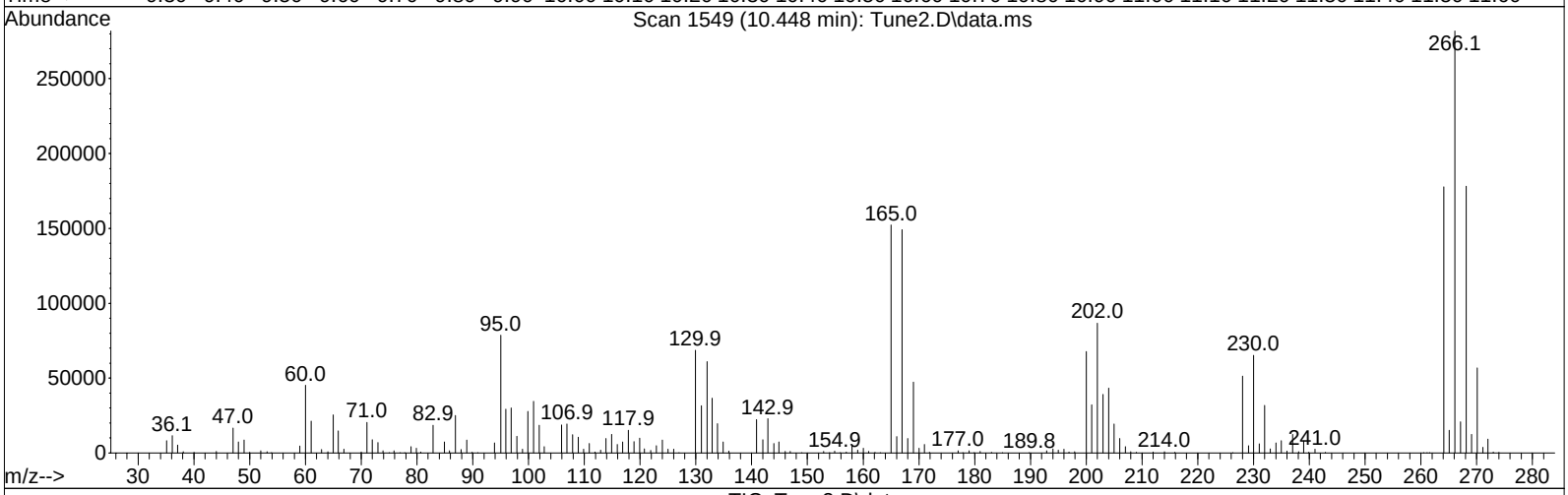
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.70	63.43
165.10	52.70	54.21
199.10	15.10	16.18

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231025ical\
Data File : Tune2.D
Acq On : 26 Oct 2023 9:47 am
Operator : SV107:cmm
Sample : Tune
Misc : WG1845543,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 28 17:29:12 2023
Quant Method : I:\8270\SV107\231025ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:28:54 2023
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(1) Pentachlorophenol (T)

10.448min (-0.005) 110.66

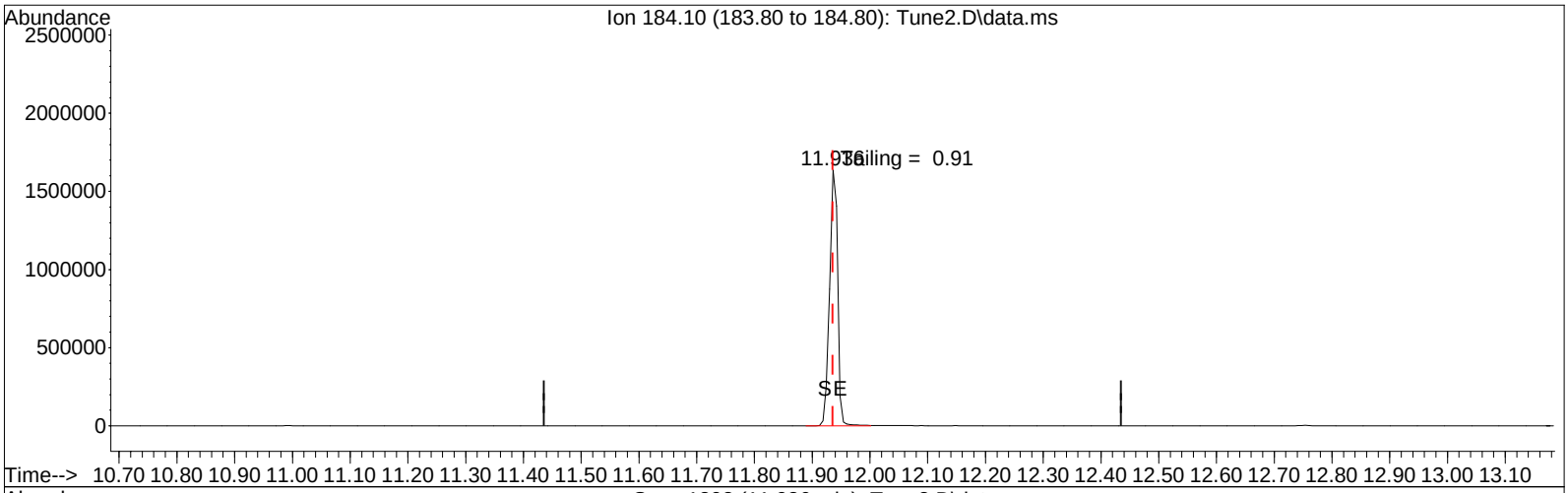
response 232434

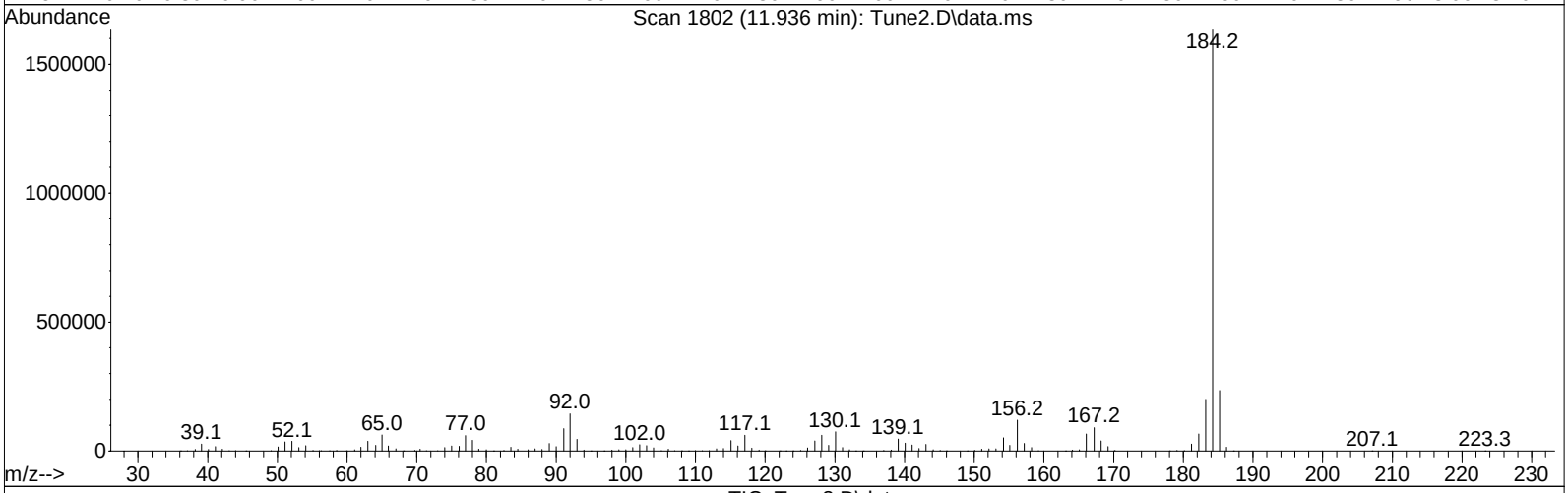
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231025ical\
Data File : Tune2.D
Acq On : 26 Oct 2023 9:47 am
Operator : SV107:cmm
Sample : Tune
Misc : WG1845543,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 28 17:29:12 2023
Quant Method : I:\8270\SV107\231025ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:28:54 2023
Response via : Initial Calibration





TIC: Tune2.D\data.ms

(3) Benzidine (T)

11.936min (+ 0.001) 154.98

response 1577709

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL10.D
Acq On : 26 Oct 2023 10:13 am
Operator : SV107:cmm
Sample : IL1,32,,ADPL50 Lot# 10295
Misc : WG1845543,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 27 11:53:20 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.948	152	27635	4.000	ug/ml	0.00
Standard Area 1 = 28089			Recovery =	98.38%		
85) IS3_Acenaphthene-d10	9.183	164	61718	4.000	ug/ml	0.00
Standard Area 1 = 58527			Recovery =	105.45%		
99) IS3_Phenanthrene-d10	10.601	188	129113	4.000	ug/ml	0.00
Standard Area 1 = 121235			Recovery =	106.50%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.848	57	615170	52.989	ug/ml#	49
86) Atrazine	10.413	200	282658	60.764	ug/ml	93
100) n-Octadecane	10.613	57	917029	51.431	ug/ml#	1
101) Parathion	11.407	109	188504	85.823	ug/ml#	94
102) 3,3'-Dimethylbenzidine	12.654	212	1185873	83.936	ug/ml	99

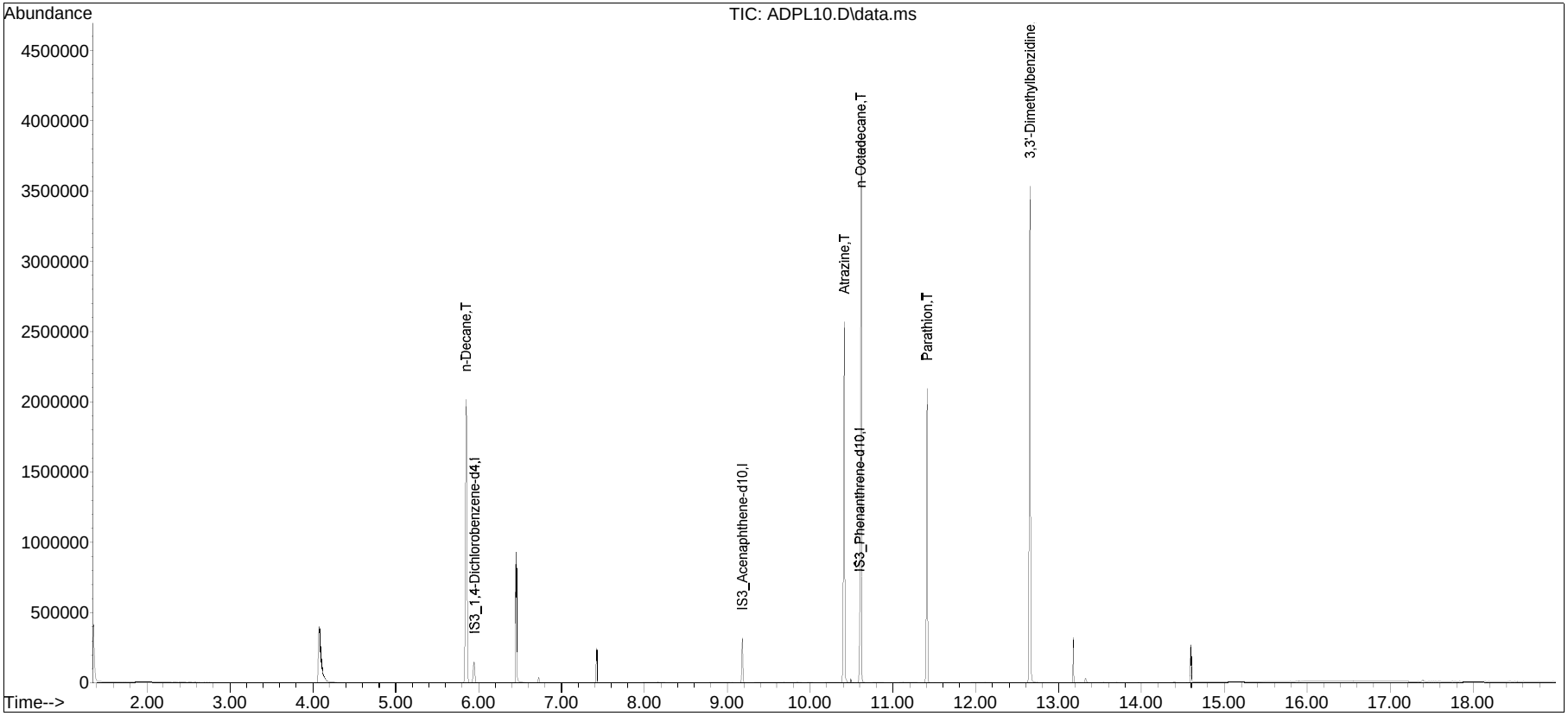
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL10.D
Acq On : 26 Oct 2023 10:13 am
Operator : SV107:cmm
Sample : IL1,32,,ADPL50 Lot# 10295
Misc : WG1845543,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 27 11:53:20 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ADPL10.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 10:13 am	Instrument	: SV107
Sample	: IL1,32,,ADPL50 Lot# 10295	Quant Date	: 10/27/2023 11:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL9.D
Acq On : 26 Oct 2023 10:38 am
Operator : SV107:cmm
Sample : IL2,32,,ADPL35 Lot# 10306
Misc : WG1845543,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 27 11:59:07 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.948	152	28003	4.000	ug/ml	0.00
Standard Area 1 = 28089			Recovery = 99.69%			
85) IS3_Acenaphthene-d10	9.184	164	61404	4.000	ug/ml	0.00
Standard Area 1 = 58527			Recovery = 104.92%			
99) IS3_Phenanthrene-d10	10.601	188	125635	4.000	ug/ml	0.00
Standard Area 1 = 121235			Recovery = 103.63%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.848	57	430666	36.609	ug/ml#	50
86) Atrazine	10.407	200	189311	40.905	ug/ml	92
100) n-Octadecane	10.613	57	644647	37.156	ug/ml#	1
101) Parathion	11.401	109	120786	56.515	ug/ml#	93
102) 3,3'-Dimethylbenzidine	12.648	212	765635	55.692	ug/ml	99

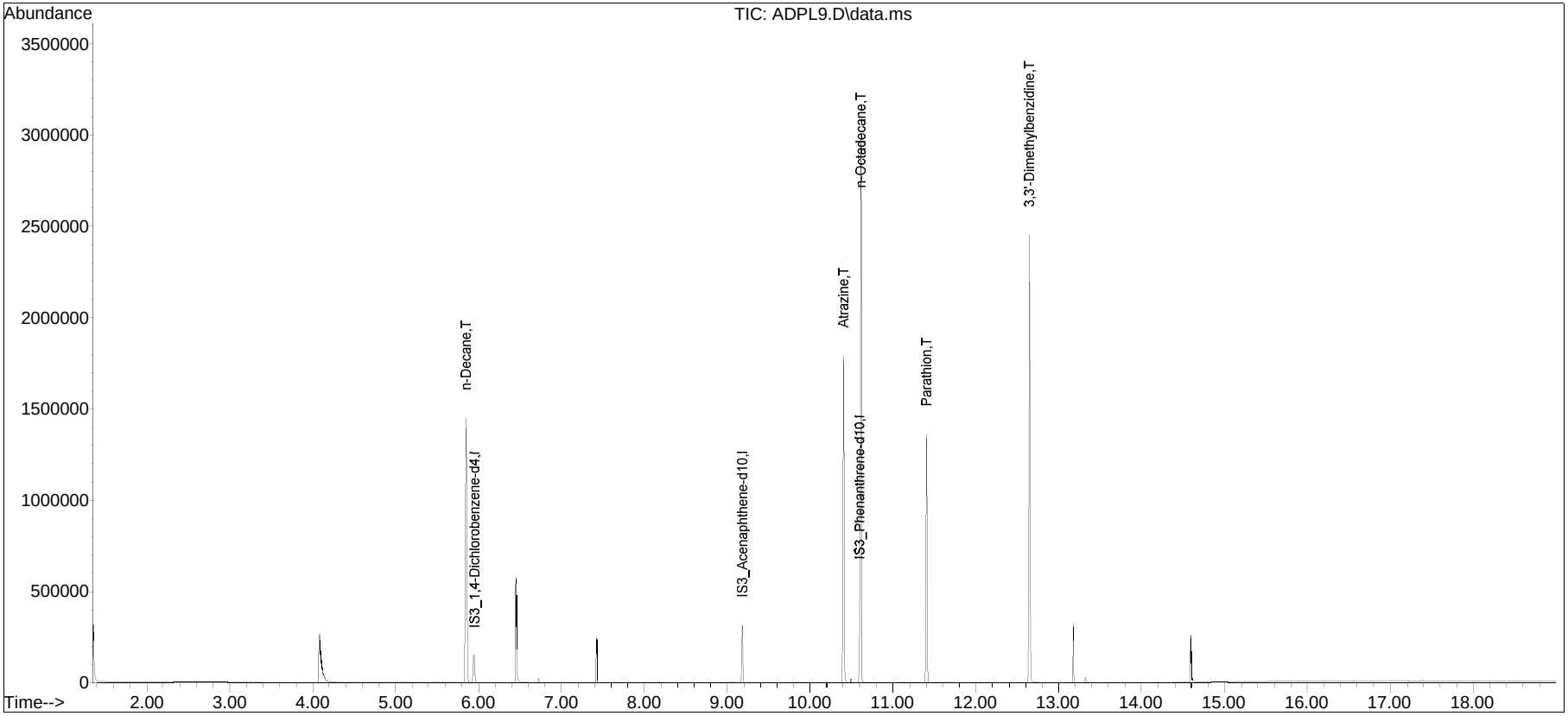
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL9.D
Acq On : 26 Oct 2023 10:38 am
Operator : SV107:cmm
Sample : IL2,32,,ADPL35 Lot# 10306
Misc : WG1845543,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 27 11:59:07 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ADPL9.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 10:38 am	Instrument	: SV107
Sample	: IL2,32,,ADPL35 Lot# 10306	Quant Date	: 10/27/2023 11:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL8.D
Acq On : 26 Oct 2023 11:04 am
Operator : SV107:cmm
Sample : IL3,32,,ADPL15 Lot# 10307
Misc : WG1845543,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 27 11:58:17 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.948	152	27586	4.000	ug/ml	0.00
Standard Area 1 = 28089			Recovery =	98.21%		
85) IS3_Acenaphthene-d10	9.183	164	60941	4.000	ug/ml	0.00
Standard Area 1 = 58527			Recovery =	104.12%		
99) IS3_Phenanthrene-d10	10.601	188	126427	4.000	ug/ml	0.00
Standard Area 1 = 121235			Recovery =	104.28%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.848	57	187549	16.184	ug/ml#	48
86) Atrazine	10.407	200	80655	17.560	ug/ml	92
100) n-Octadecane	10.613	57	288561	16.528	ug/ml#	1
101) Parathion	11.401	109	45953	21.366	ug/ml#	91
102) 3,3'-Dimethylbenzidine	12.648	212	306173	22.131	ug/ml	99

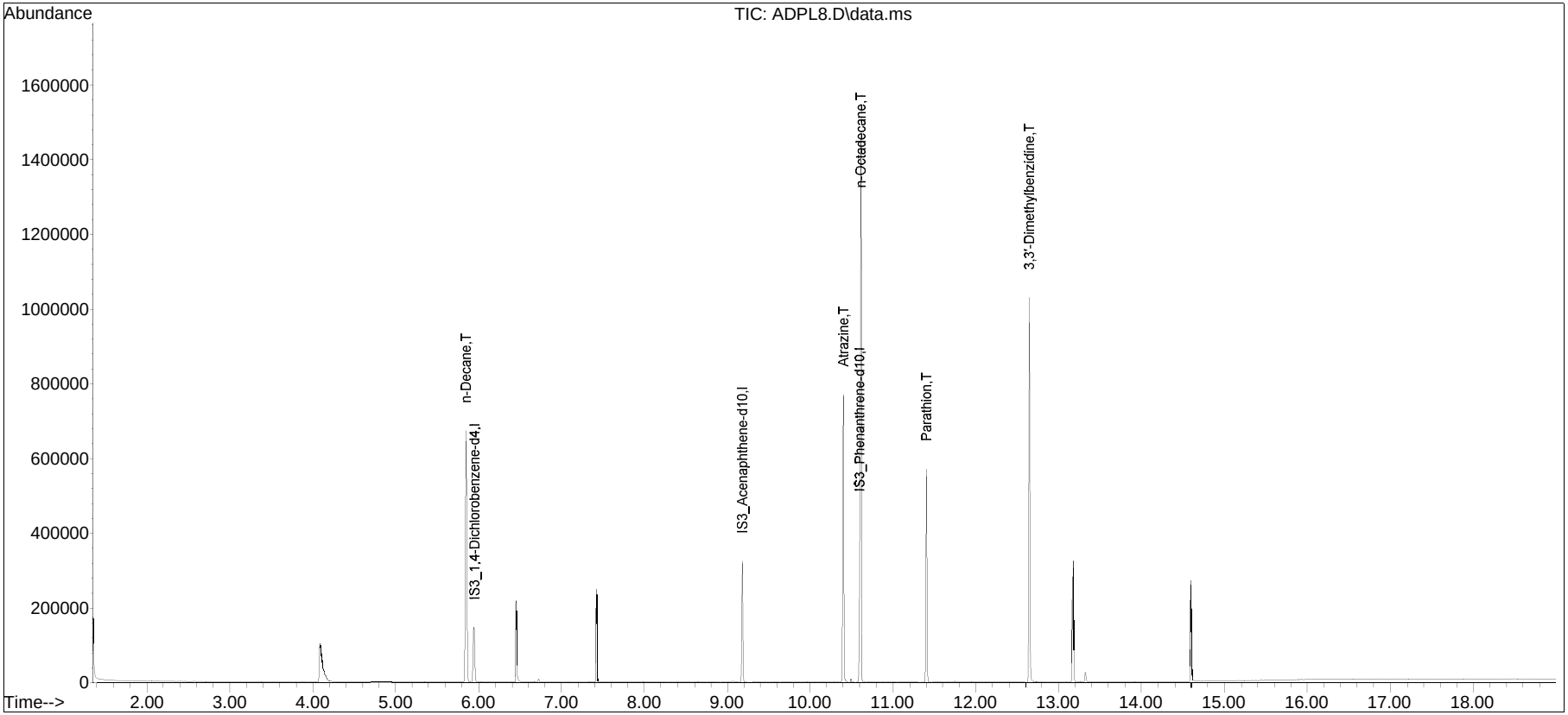
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL8.D
Acq On : 26 Oct 2023 11:04 am
Operator : SV107:cmm
Sample : IL3,32,,ADPL15 Lot# 10307
Misc : WG1845543,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 27 11:58:17 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ADPL8.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 11:04 am	Instrument	: SV107
Sample	: IL3,32,,ADPL15 Lot# 10307	Quant Date	: 10/27/2023 11:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL7.D
Acq On : 26 Oct 2023 11:29 am
Operator : SV107:cmm
Sample : IL4,32,,ADPL10 Lot# 10308
Misc : WG1845543,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 27 11:57:29 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.948	152	27651	4.000	ug/ml	0.00
Standard Area 1 = 28089			Recovery =	98.44%		
85) IS3_Acenaphthene-d10	9.183	164	57242	4.000	ug/ml	0.00
Standard Area 1 = 58527			Recovery =	97.80%		
99) IS3_Phenanthrene-d10	10.601	188	120608	4.000	ug/ml	0.00
Standard Area 1 = 121235			Recovery =	99.48%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.848	57	125475	10.802	ug/ml#	49
86) Atrazine	10.407	200	48257	11.185	ug/ml	92
100) n-Octadecane	10.613	57	181803	10.915	ug/ml#	1
101) Parathion	11.401	109	25553	12.454	ug/ml#	91
102) 3,3'-Dimethylbenzidine	12.648	212	175867	13.326	ug/ml	98

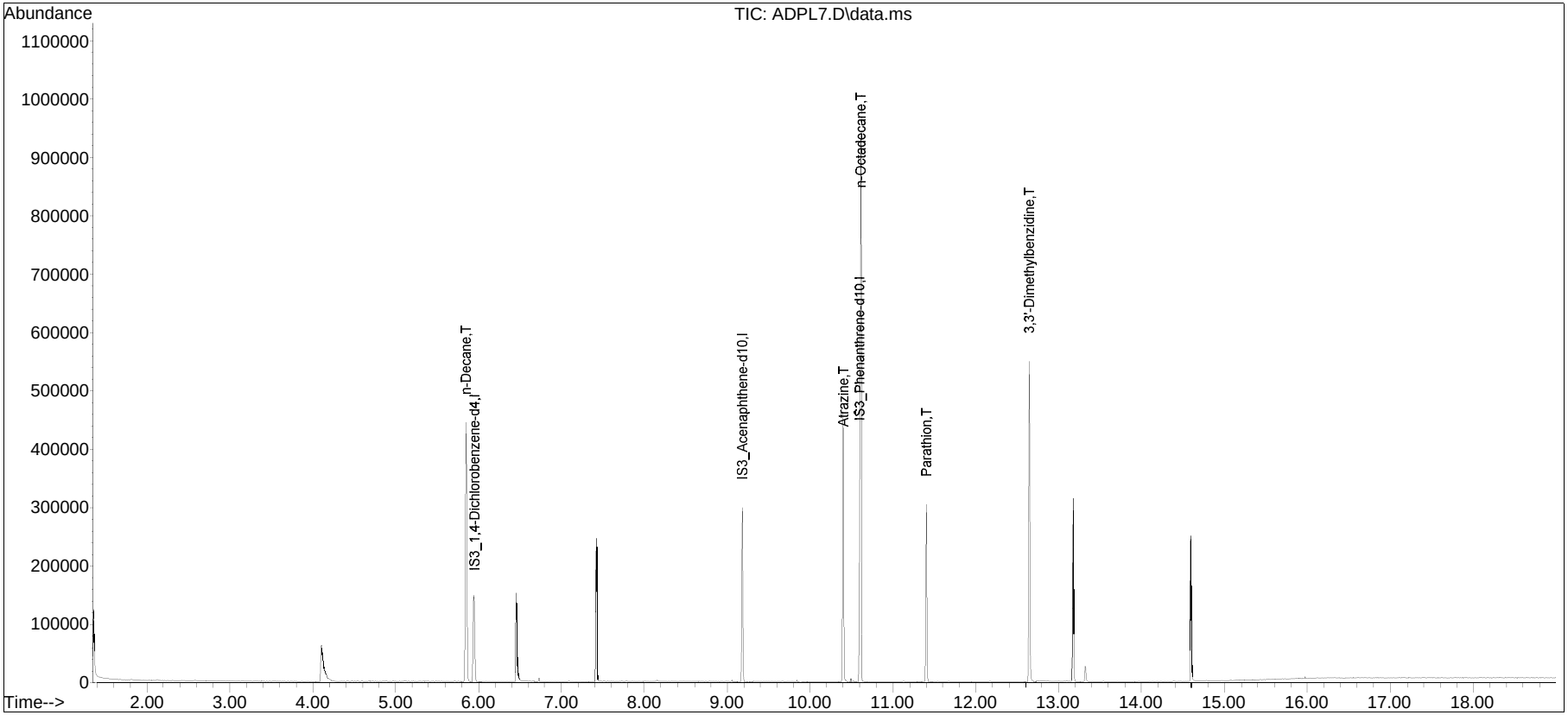
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL7.D
Acq On : 26 Oct 2023 11:29 am
Operator : SV107:cmm
Sample : IL4,32,,ADPL10 Lot# 10308
Misc : WG1845543,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 27 11:57:29 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ADPL7.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 11:29 am	Instrument	: SV107
Sample	: IL4,32,,ADPL10 Lot# 10308	Quant Date	: 10/27/2023 11:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL6.D
Acq On : 26 Oct 2023 11:55 am
Operator : SV107:cmm
Sample : IL5,32,,ADPL5 Lot# 10309
Misc : WG1845543,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 27 11:21:09 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:23 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.948	152	28089	4.000	ug/ml	0.00
Standard Area 1 = 28089			Recovery =	100.00%		
85) IS3_Acenaphthene-d10	9.183	164	58527	4.000	ug/ml	0.00
Standard Area 1 = 58527			Recovery =	100.00%		
99) IS3_Phenanthrene-d10	10.601	188	121235	4.000	ug/ml	0.00
Standard Area 1 = 121235			Recovery =	100.00%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.848	57	59001	5.000	ug/ml#	47
86) Atrazine	10.401	200	22056	5.000	ug/ml	92
100) n-Octadecane	10.613	57	83711	5.000	ug/ml#	1
101) Parathion	11.401	109	10312	5.000	ug/ml#	90
102) 3,3'-Dimethylbenzidine	12.648	212	66331	5.000	ug/ml	100

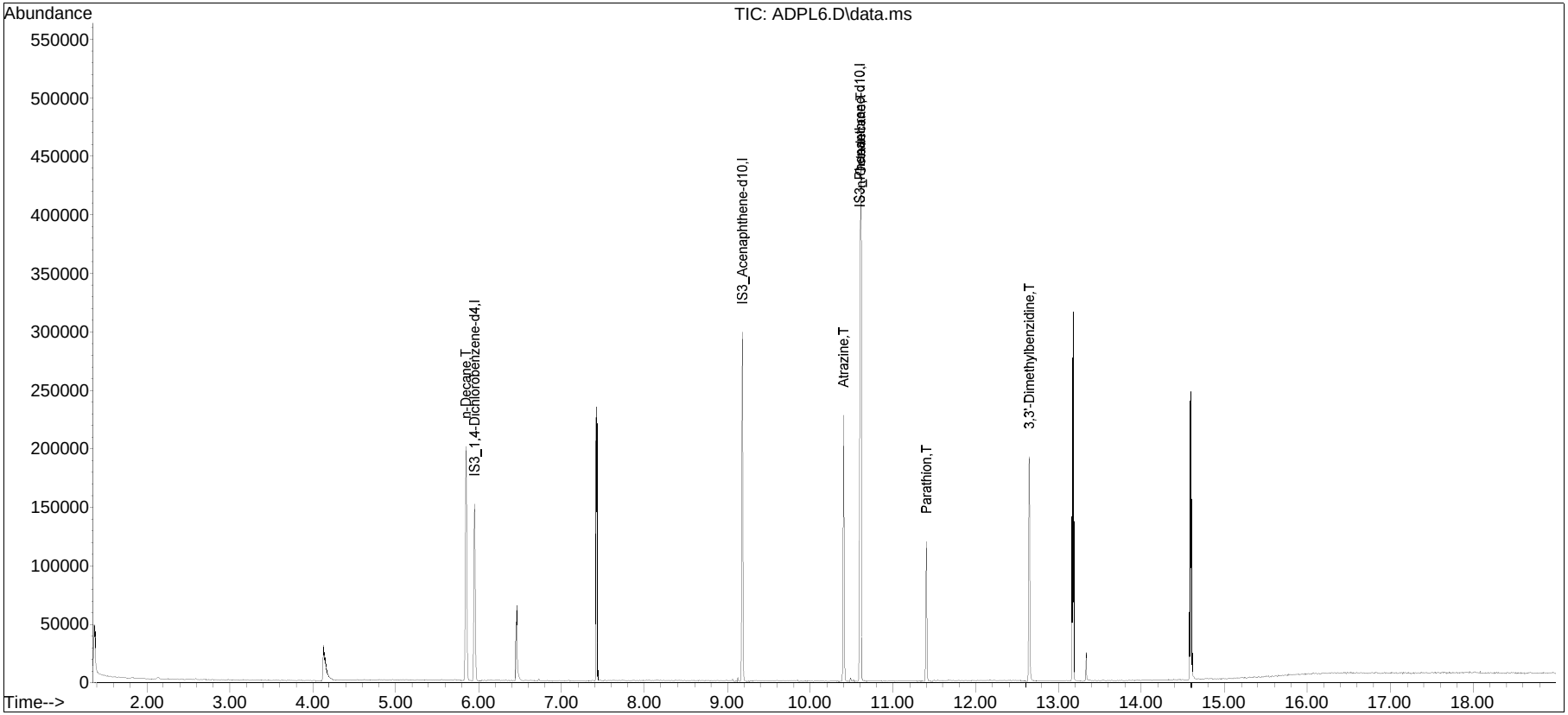
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL6.D
Acq On : 26 Oct 2023 11:55 am
Operator : SV107:cmm
Sample : IL5,32,,ADPL5 Lot# 10309
Misc : WG1845543,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 27 11:21:09 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:23 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ADPL6.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 11:55 am	Instrument	: SV107
Sample	: IL5,32,,ADPL5 Lot# 10309	Quant Date	: 10/27/2023 11:21 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL5.D
Acq On : 26 Oct 2023 12:21 pm
Operator : SV107:cmm
Sample : IL6,32,,ADPL3 Lot# 10310
Misc : WG1845543,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 27 11:56:47 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.948	152	27296	4.000	ug/ml	0.00
Standard Area 1 = 28089			Recovery =	97.18%		
85) IS3_Acenaphthene-d10	9.183	164	57224	4.000	ug/ml	0.00
Standard Area 1 = 58527			Recovery =	97.77%		
99) IS3_Phenanthrene-d10	10.601	188	119013	4.000	ug/ml	0.00
Standard Area 1 = 121235			Recovery =	98.17%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.848	57	34750	3.030	ug/ml#	49
86) Atrazine	10.401	200	12295	2.851	ug/ml	91
100) n-Octadecane	10.613	57	48623	2.958	ug/ml#	1
101) Parathion	11.401	109	5273	2.604	ug/ml#	91
102) 3,3'-Dimethylbenzidine	12.648	212	33759	2.592	ug/ml	99

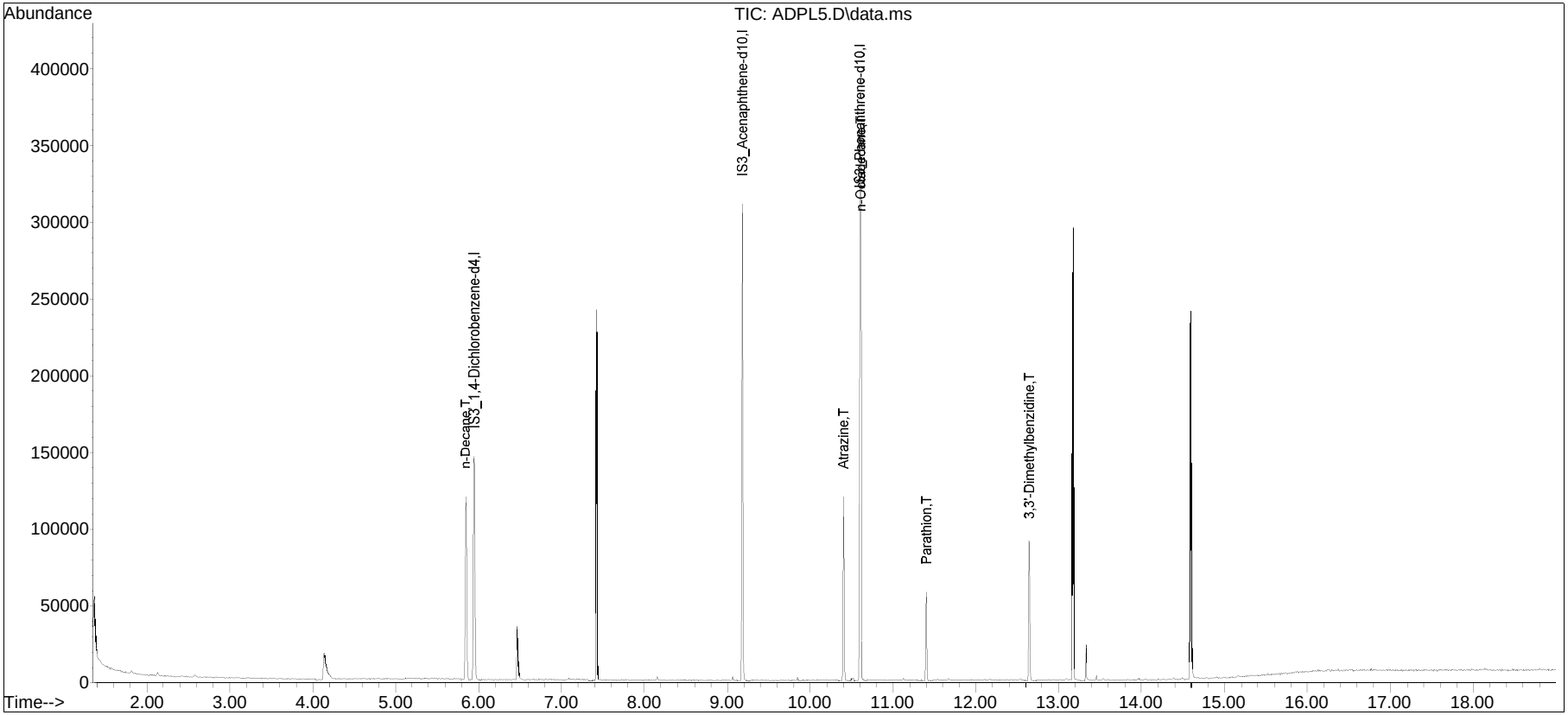
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL5.D
Acq On : 26 Oct 2023 12:21 pm
Operator : SV107:cmm
Sample : IL6,32,,ADPL3 Lot# 10310
Misc : WG1845543,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 27 11:56:47 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ADPL5.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 12:21 pm	Instrument	: SV107
Sample	: IL6,32,,ADPL3 Lot# 10310	Quant Date	: 10/27/2023 11:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL4.D
Acq On : 26 Oct 2023 12:46 pm
Operator : SV107:cmm
Sample : IL7,32,,ADPL2 Lot# 10311
Misc : WG1845543,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 27 11:56:07 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.948	152	26918	4.000	ug/ml	0.00
Standard Area 1 = 28089			Recovery =	95.83%		
85) IS3_Acenaphthene-d10	9.184	164	56180	4.000	ug/ml	0.00
Standard Area 1 = 58527			Recovery =	95.99%		
99) IS3_Phenanthrene-d10	10.601	188	114408	4.000	ug/ml	0.00
Standard Area 1 = 121235			Recovery =	94.37%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.848	57	22684	2.006	ug/ml#	48
86) Atrazine	10.401	200	7161	1.691	ug/ml	90
100) n-Octadecane	10.613	57	28246	1.788	ug/ml#	1
101) Parathion	11.401	109	3299	1.695	ug/ml#	92
102) 3,3'-Dimethylbenzidine	12.642	212	18824	1.504	ug/ml	98

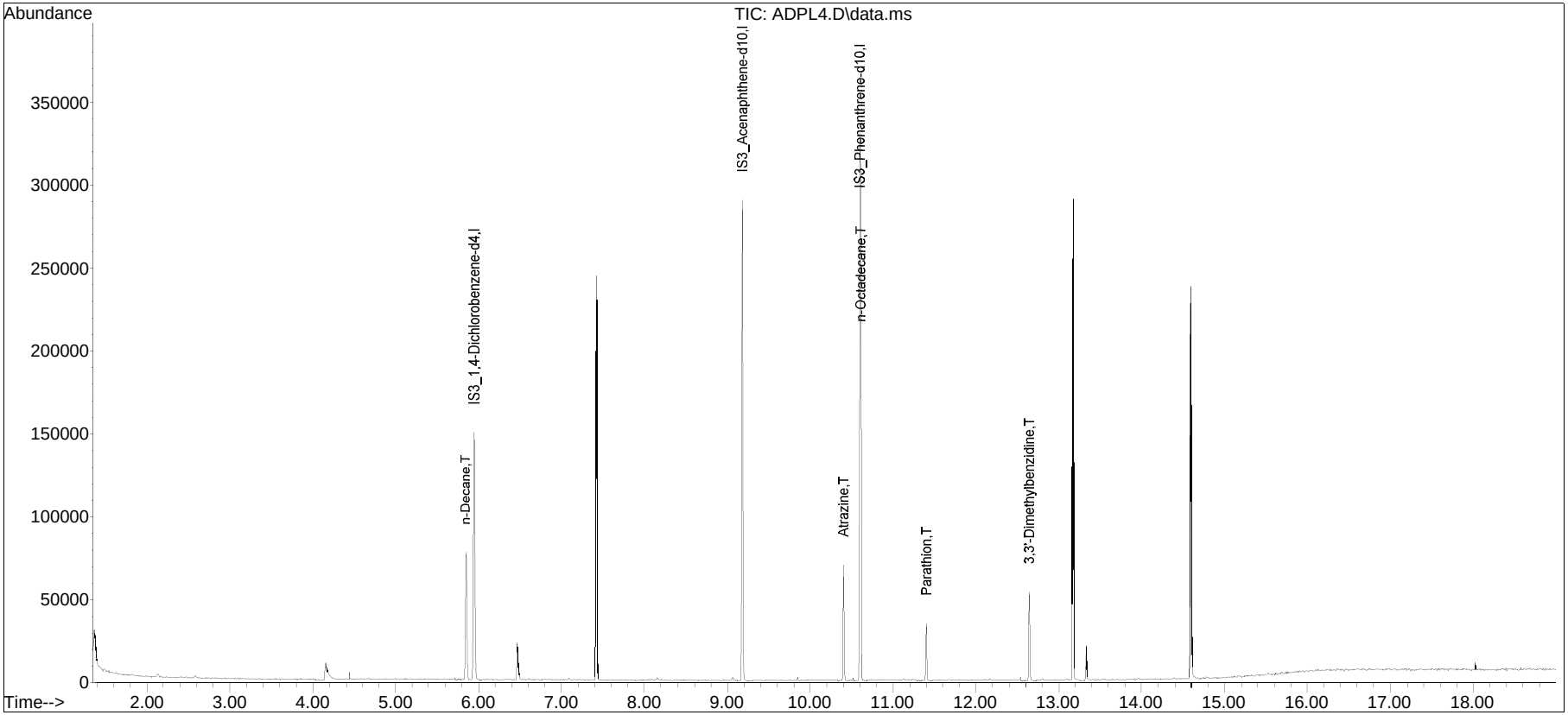
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL4.D
Acq On : 26 Oct 2023 12:46 pm
Operator : SV107:cmm
Sample : IL7,32,,ADPL2 Lot# 10311
Misc : WG1845543,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 27 11:56:07 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ADPL4.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 12:46 pm	Instrument	: SV107
Sample	: IL7,32,,ADPL2 Lot# 10311	Quant Date	: 10/27/2023 11:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL3.D
Acq On : 26 Oct 2023 1:12 pm
Operator : SV107:cmm
Sample : IL8,32,,ADPL1 Lot# 10312
Misc : WG1845543,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 27 11:55:16 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.948	152	27501	4.000	ug/ml	0.00
Standard Area 1 = 28089			Recovery =	97.91%		
85) IS3_Acenaphthene-d10	9.183	164	56047	4.000	ug/ml	0.00
Standard Area 1 = 58527			Recovery =	95.76%		
99) IS3_Phenanthrene-d10	10.601	188	113355	4.000	ug/ml	0.00
Standard Area 1 = 121235			Recovery =	93.50%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.854	57	10785	0.934	ug/ml#	48
86) Atrazine	10.401	200	3058	0.724	ug/ml	93
100) n-Octadecane	10.613	57	13228	0.845	ug/ml#	1
101) Parathion	11.401	109	1451	0.752	ug/ml#	86
102) 3,3'-Dimethylbenzidine	12.648	212	7631	0.615	ug/ml	99

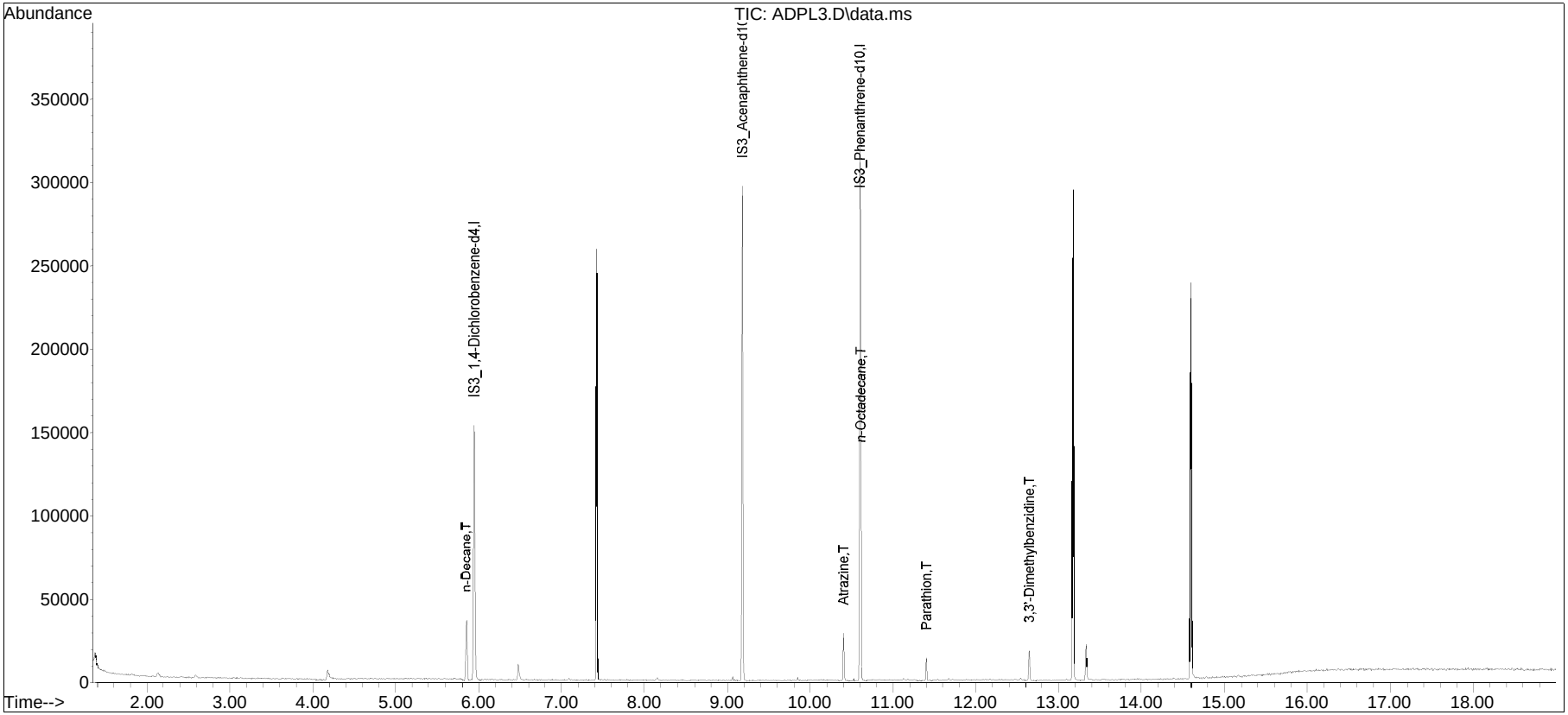
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL3.D
Acq On : 26 Oct 2023 1:12 pm
Operator : SV107:cmm
Sample : IL8,32,,ADPL1 Lot# 10312
Misc : WG1845543,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 27 11:55:16 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ADPL3.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 1:12 pm	Instrument	: SV107
Sample	: IL8,32,,ADPL1 Lot# 10312	Quant Date	: 10/27/2023 11:24 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL2.D
Acq On : 26 Oct 2023 1:38 pm
Operator : SV107:cmm
Sample : IL9,32,,ADPL0.4 Lot# 10313
Misc : WG1845543,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 27 11:54:03 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.948	152	26925	4.000	ug/ml	0.00
Standard Area 1 = 28089			Recovery =	95.86%		
85) IS3_Acenaphthene-d10	9.184	164	56100	4.000	ug/ml	0.00
Standard Area 1 = 58527			Recovery =	95.85%		
99) IS3_Phenanthrene-d10	10.601	188	110932	4.000	ug/ml	0.00
Standard Area 1 = 121235			Recovery =	91.50%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.854	57	4448	0.393	ug/ml#	49
86) Atrazine	10.401	200	1510	0.357	ug/ml#	85
100) n-Octadecane	10.613	57	6412	0.419	ug/ml#	1
101) Parathion	11.401	109	645	0.342	ug/ml#	66
102) 3,3'-Dimethylbenzidine	12.642	212	3034	0.250	ug/ml	98

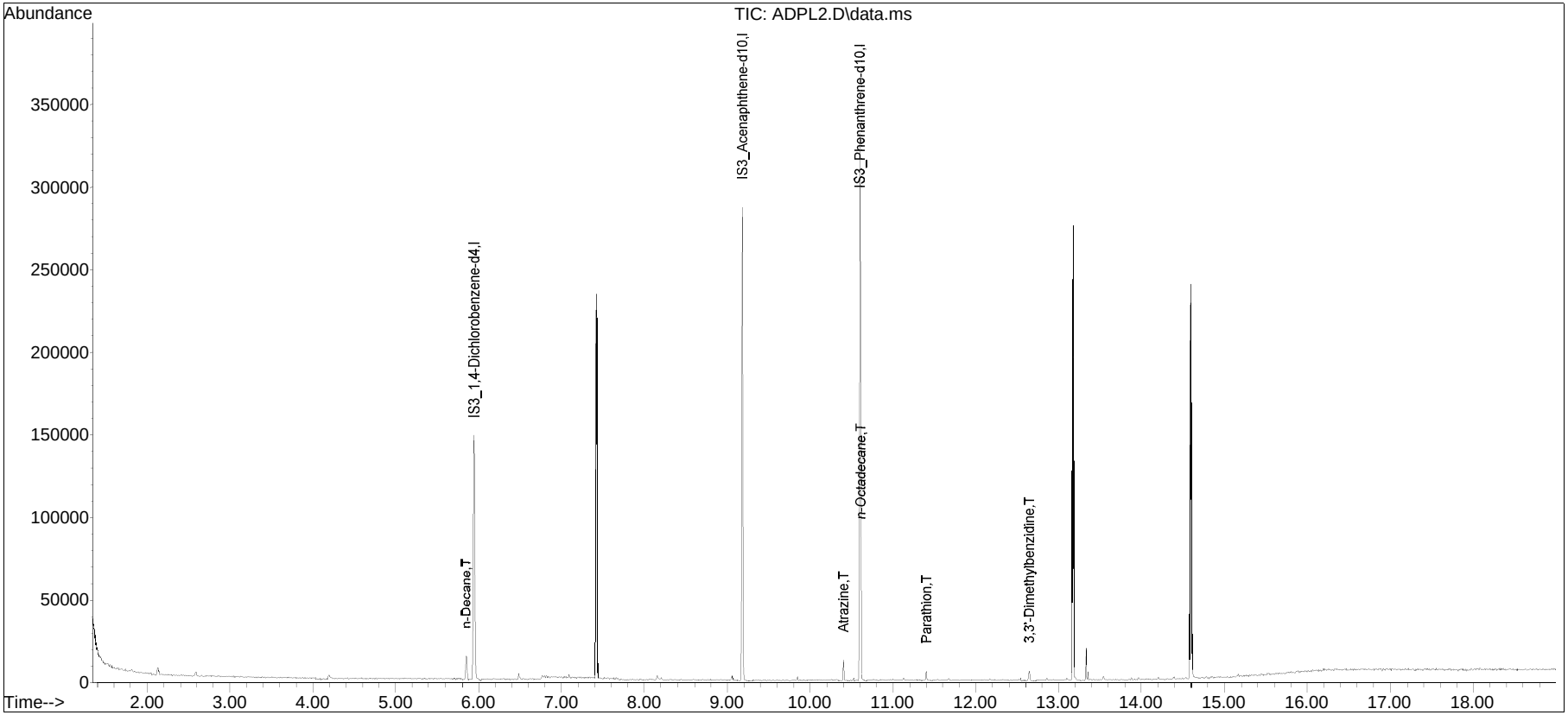
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL2.D
Acq On : 26 Oct 2023 1:38 pm
Operator : SV107:cmm
Sample : IL9,32,,ADPL0.4 Lot# 10313
Misc : WG1845543,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 27 11:54:03 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ADPL2.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 1:38 pm	Instrument	: SV107
Sample	: IL9,32,,ADPL0.4 Lot# 10313	Quant Date	: 10/27/2023 11:23 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL1.D
Acq On : 26 Oct 2023 2:03 pm
Operator : SV107:cmm
Sample : IL10,32,,ADPL0.2 Lot# 10314
Misc : WG1845543,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 27 11:52:19 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.948	152	25708	4.000	ug/ml	0.00
Standard Area 1 = 28089			Recovery =	91.52%		
85) IS3_Acenaphthene-d10	9.184	164	52758	4.000	ug/ml	0.00
Standard Area 1 = 58527			Recovery =	90.14%		
99) IS3_Phenanthrene-d10	10.601	188	108007	4.000	ug/ml	0.00
Standard Area 1 = 121235			Recovery =	89.09%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.854	57	2120	0.196	ug/ml#	48
86) Atrazine	10.401	200	527	0.133	ug/ml#	33
100) n-Octadecane	10.613	57	2386	0.160	ug/ml#	1
101) Parathion	0.000		0	N.D.	d	
102) 3,3'-Dimethylbenzidine	0.000		0	N.D.	d	

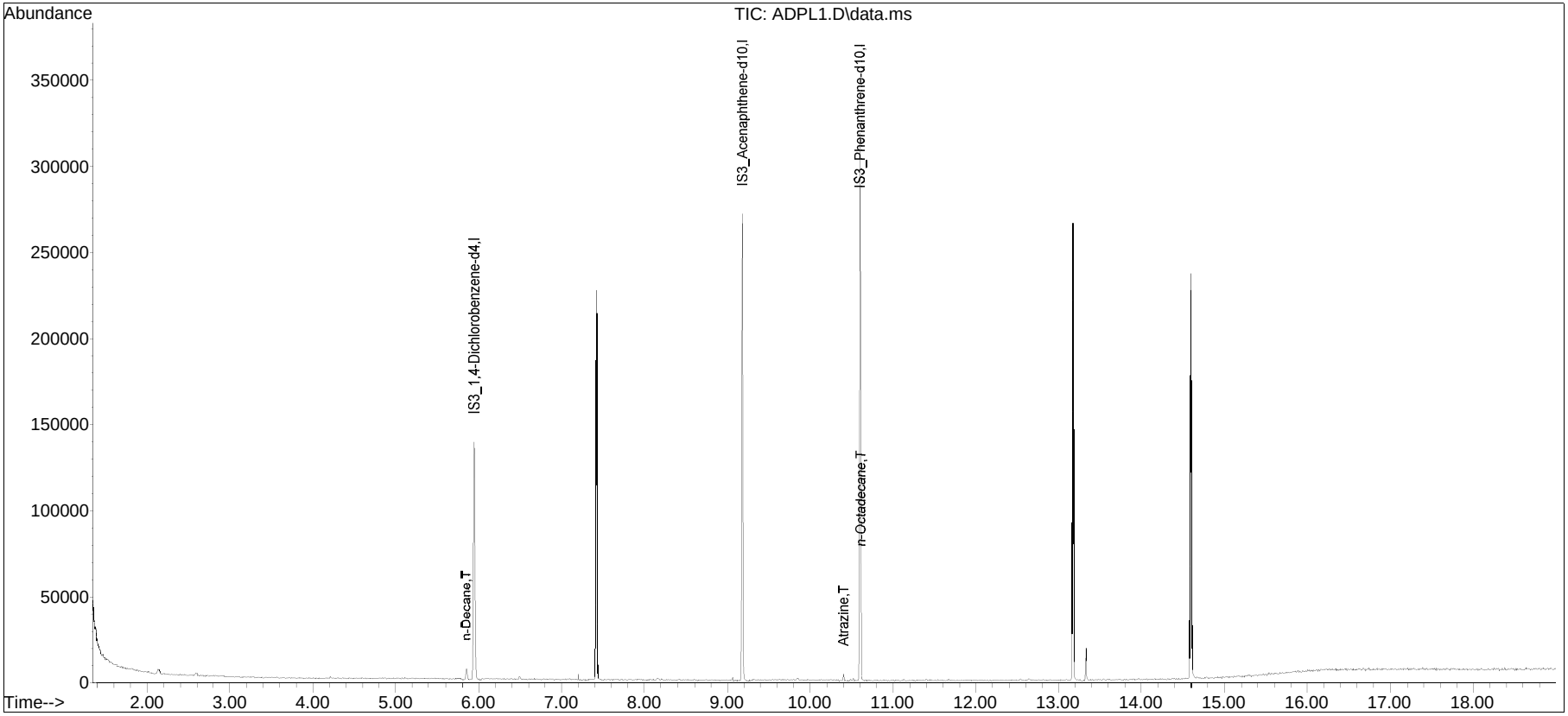
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPL1.D
Acq On : 26 Oct 2023 2:03 pm
Operator : SV107:cmm
Sample : IL10,32,,ADPL0.2 Lot# 10314
Misc : WG1845543,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 27 11:52:19 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 11:19:20 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ADPL1.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 2:03 pm	Instrument	: SV107
Sample	: IL10,32,,ADPL0.2 Lot# 1031	Quant Date	: 10/27/2023 11:23 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\231025ical\
Data File : ADPICV.D
Acq On : 26 Oct 2023 2:29 pm
Operator : SV107:cmm
Sample : CQICV3,32,,ADPICV Lot# 10317
Misc : WG1845543,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 28 17:16:01 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:08:03 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	100	0.00
33	T	n-Decane		1.710	1.938	-13.3	116	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	105	0.00
86	T	Atrazine	*	5.000	4.144	17.1	101	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	102	0.00
100	T	n-Octadecane		0.553	0.602	-8.9	111	0.00
101	T	Parathion	*	5.000	4.634	7.3	108	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	4.570	8.6	106	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPICV.D
Acq On : 26 Oct 2023 2:29 pm
Operator : SV107:cmm
Sample : CQICV3,32,,ADPICV Lot# 10317
Misc : WG1845543,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 28 17:16:01 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:08:03 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ADPL6.D
Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
32) IS3_1,4-Dichlorobenzen...	5.948	152	28186	4.000 ug/ml	0.00
Standard Area 1 = 28089			Recovery =	100.35%	
85) IS3_Acenaphthene-d10	9.183	164	61603	4.000 ug/ml	0.00
Standard Area 1 = 58527			Recovery =	105.26%	
99) IS3_Phenanthrene-d10	10.601	188	123214	4.000 ug/ml	0.00
Standard Area 1 = 121235			Recovery =	101.63%	
System Monitoring Compounds					
Target Compounds					Qvalue
33) n-Decane	5.848	57	68281	5.667 ug/ml#	48
86) Atrazine	10.401	200	22355	4.144 ug/ml	92
100) n-Octadecane	10.613	57	92793	5.448 ug/ml#	1
101) Parathion	11.401	109	11187	4.634 ug/ml#	88
102) 3,3'-Dimethylbenzidine	12.648	212	70449	4.570 ug/ml	98

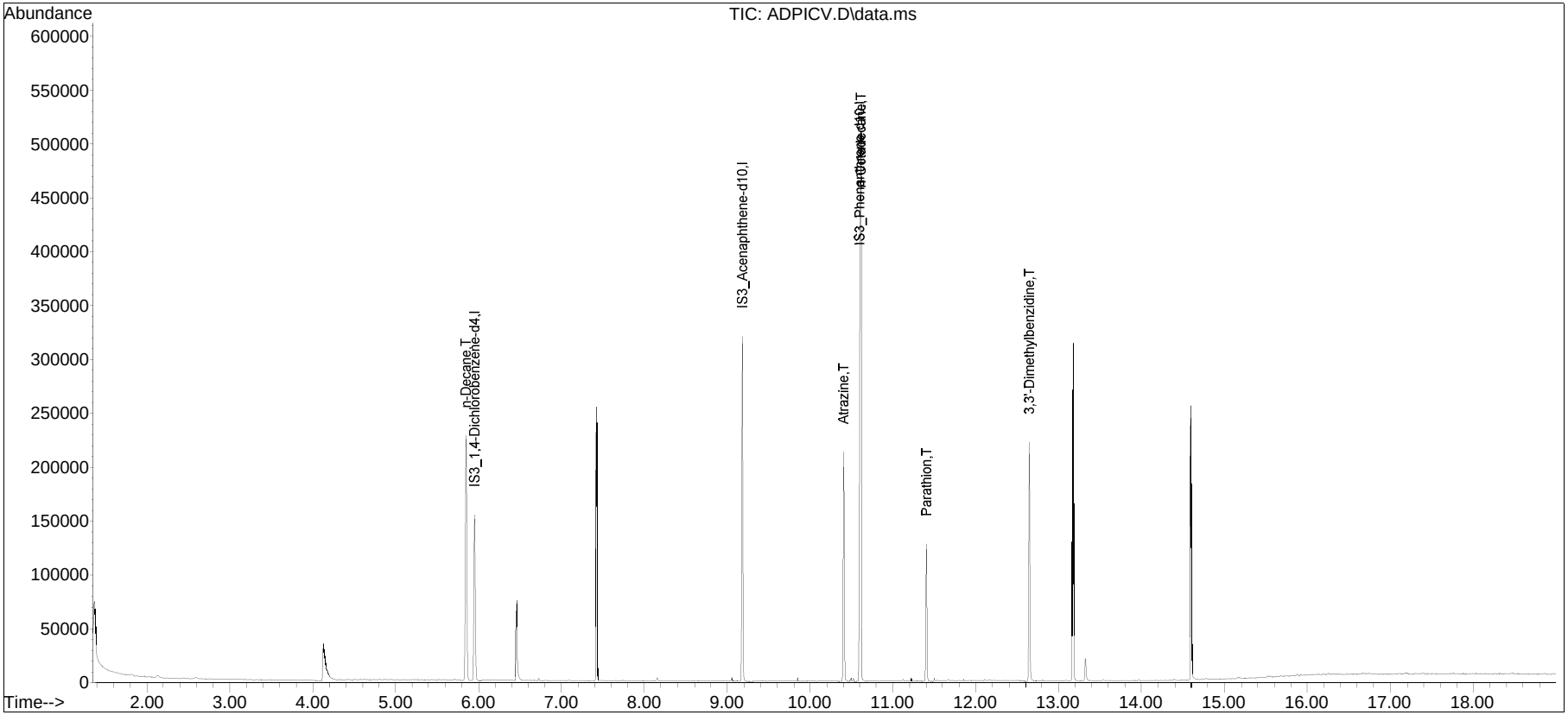
(#) = qualifier out of range (m) = manual integration (+) = signals summed

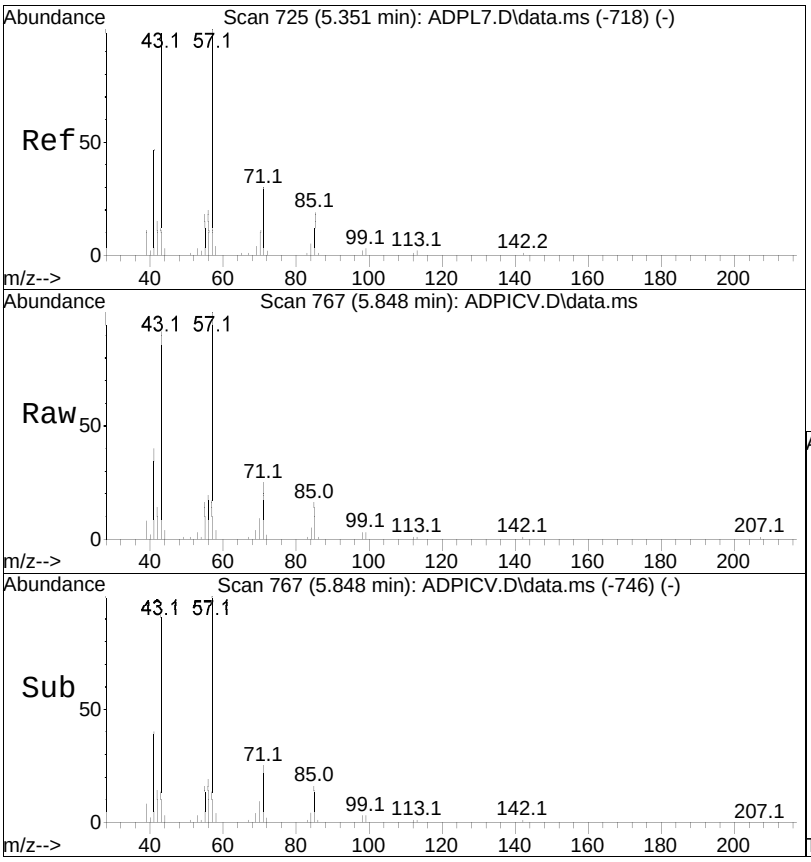
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ADPICV.D
Acq On : 26 Oct 2023 2:29 pm
Operator : SV107:cmm
Sample : CQICV3,32,,ADPICV Lot# 10317
Misc : WG1845543,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 28 17:16:01 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:08:03 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublistal\ADPL6.D•

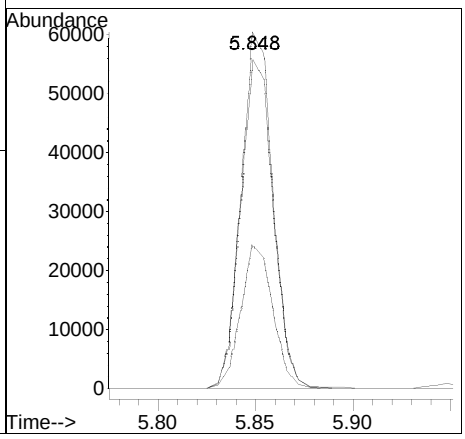


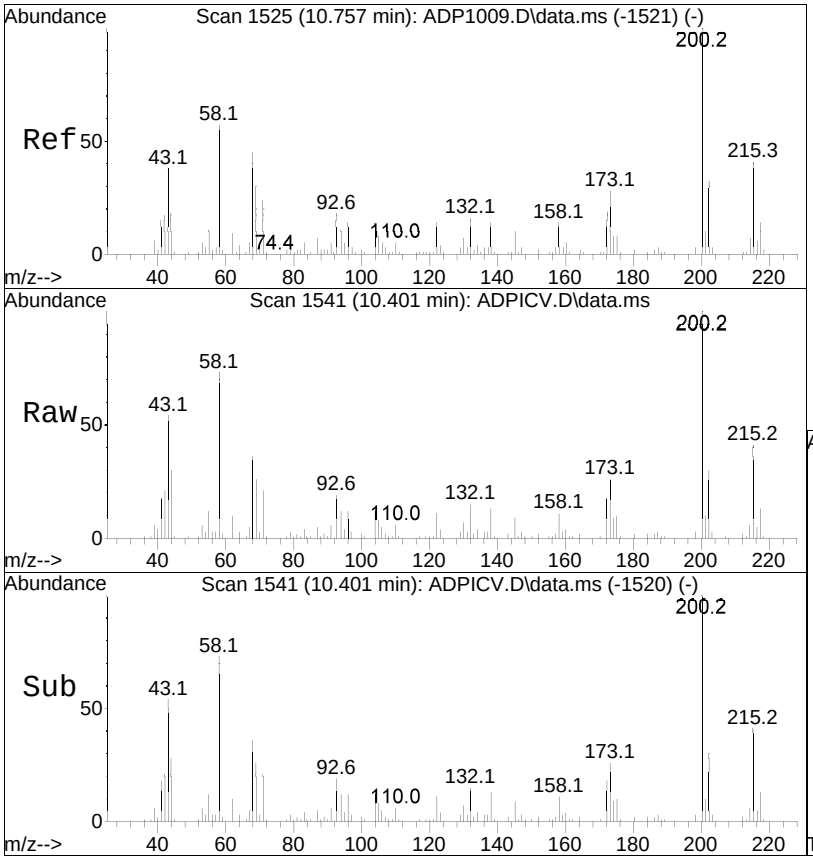


#33
n-Decane
Concen: 5.67 ug/ml
RT: 5.848 min Scan# 767
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 26 Oct 2023 2:29 pm

Tgt Ion: 57 Resp: 68281

Ion	Ratio	Lower	Upper
57	100		
43	93.1	0.2	0.2#
41	40.5	0.2	0.2#

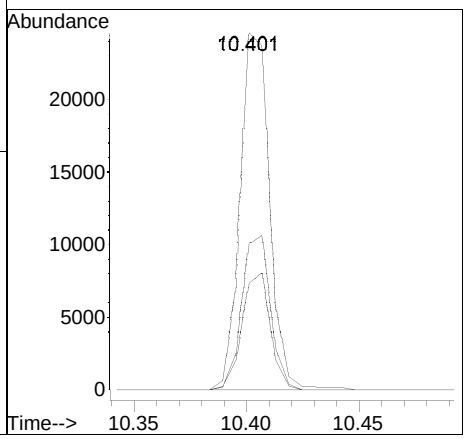


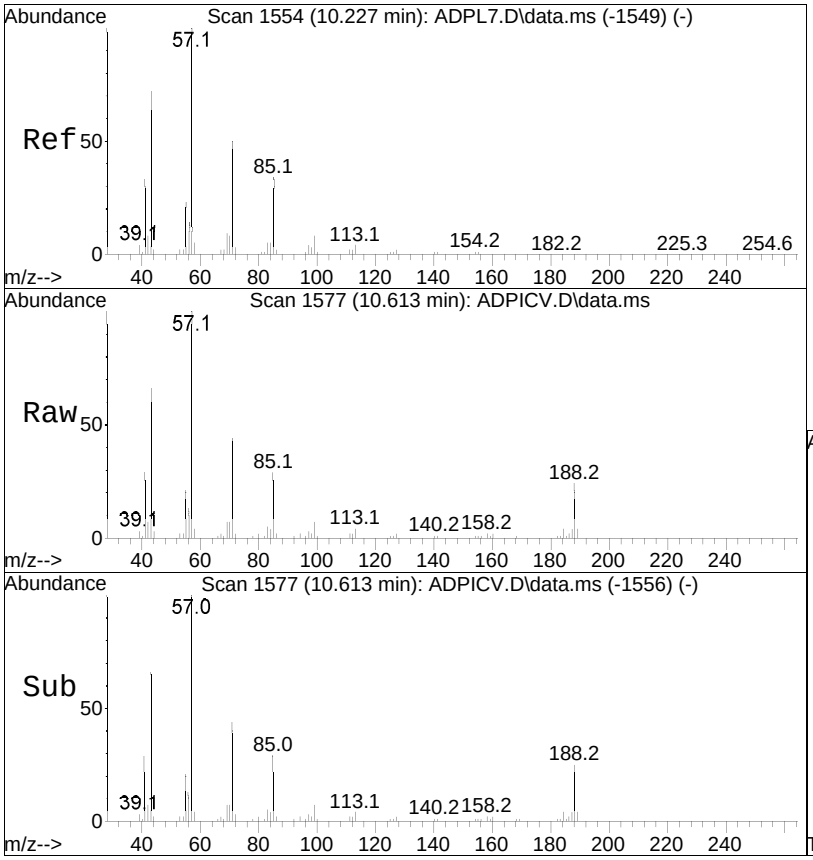


#86
Atrazine
Concen: 4.14 ug/ml
RT: 10.401 min Scan# 1541
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 26 Oct 2023 2:29 pm

Tgt Ion:200 Resp: 22355

Ion	Ratio	Lower	Upper
200	100		
202	31.5	25.8	38.6
215	42.1	40.2	60.4

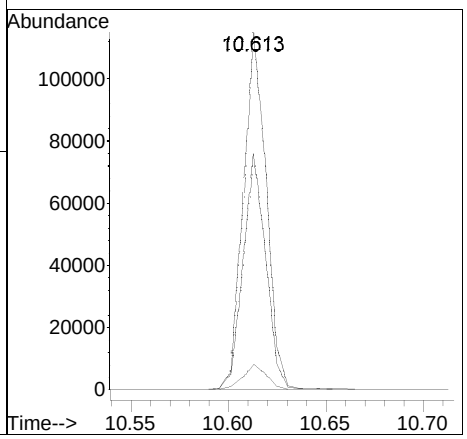


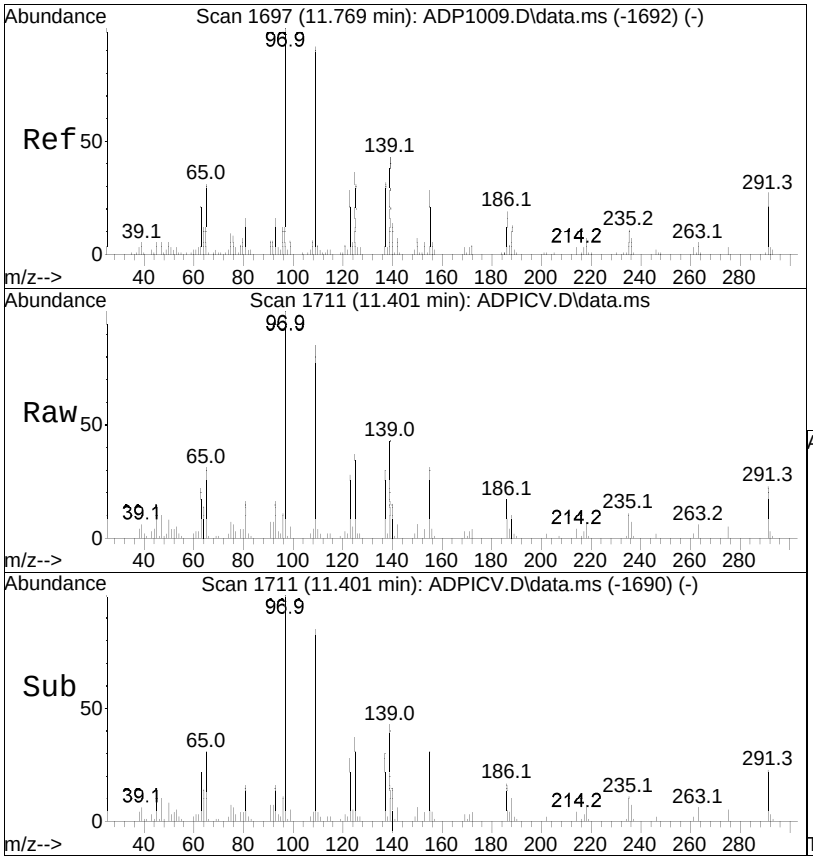


#100
n-Octadecane
Concen: 5.45 ug/ml
RT: 10.613 min Scan# 1577
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 26 Oct 2023 2:29 pm

Tgt Ion: 57 Resp: 92793

Ion	Ratio	Lower	Upper
57	100		
43	65.5	9.0	13.6#
70	7.3	0.2	0.2#

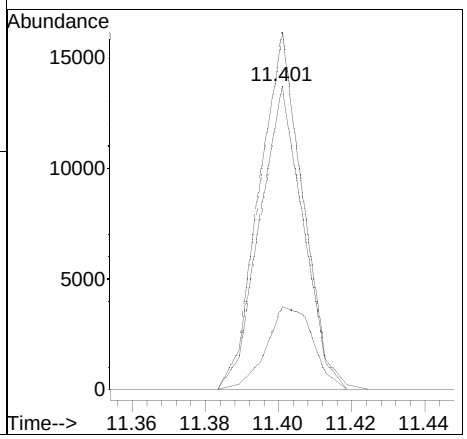


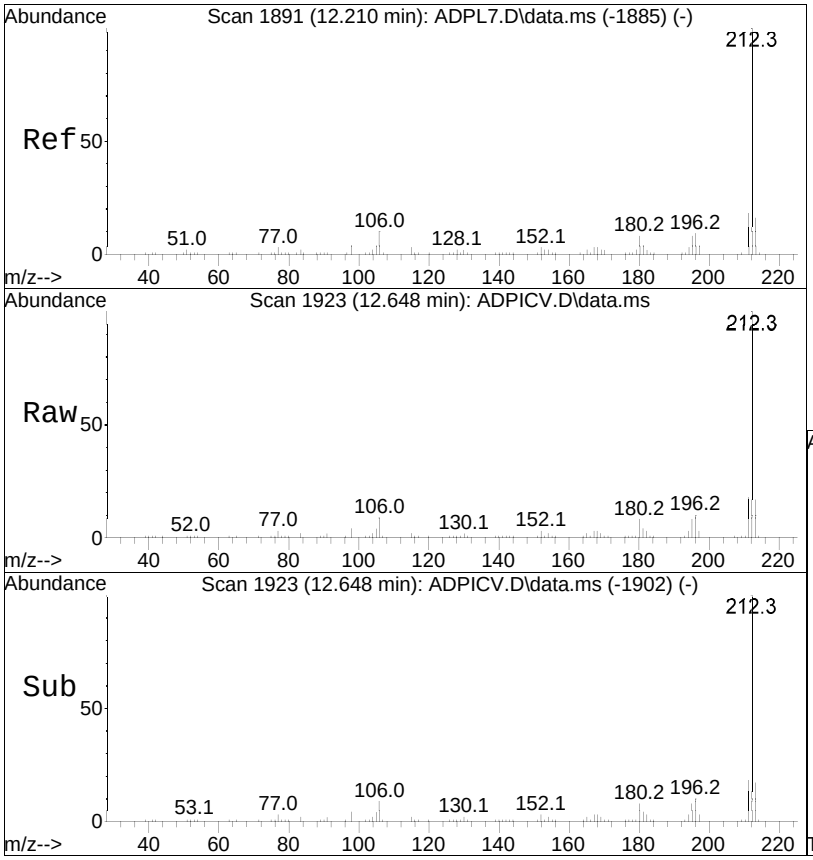


#101
Parathion
Concen: 4.63 ug/ml
RT: 11.401 min Scan# 1711
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 26 Oct 2023 2:29 pm

Tgt Ion:109 Resp: 11187

Ion	Ratio	Lower	Upper
109	100		
97	118.2	87.4	131.2
291	29.7	34.2	51.2#

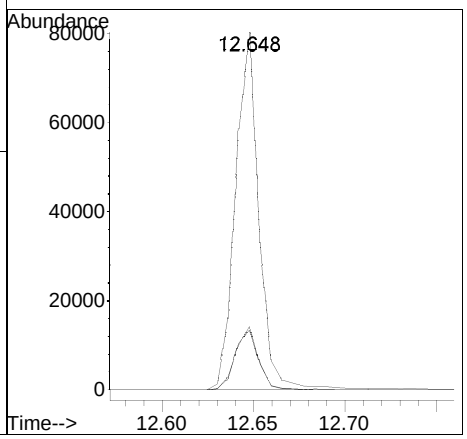




#102
3,3'-Dimethylbenzidine
Concen: 4.57 ug/ml
RT: 12.648 min Scan# 1923
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 26 Oct 2023 2:29 pm

Tgt Ion:212 Resp: 70449

Ion	Ratio	Lower	Upper
212	100		
211	17.3	12.9	19.3
213	17.1	13.2	19.8



Manual Integration Report

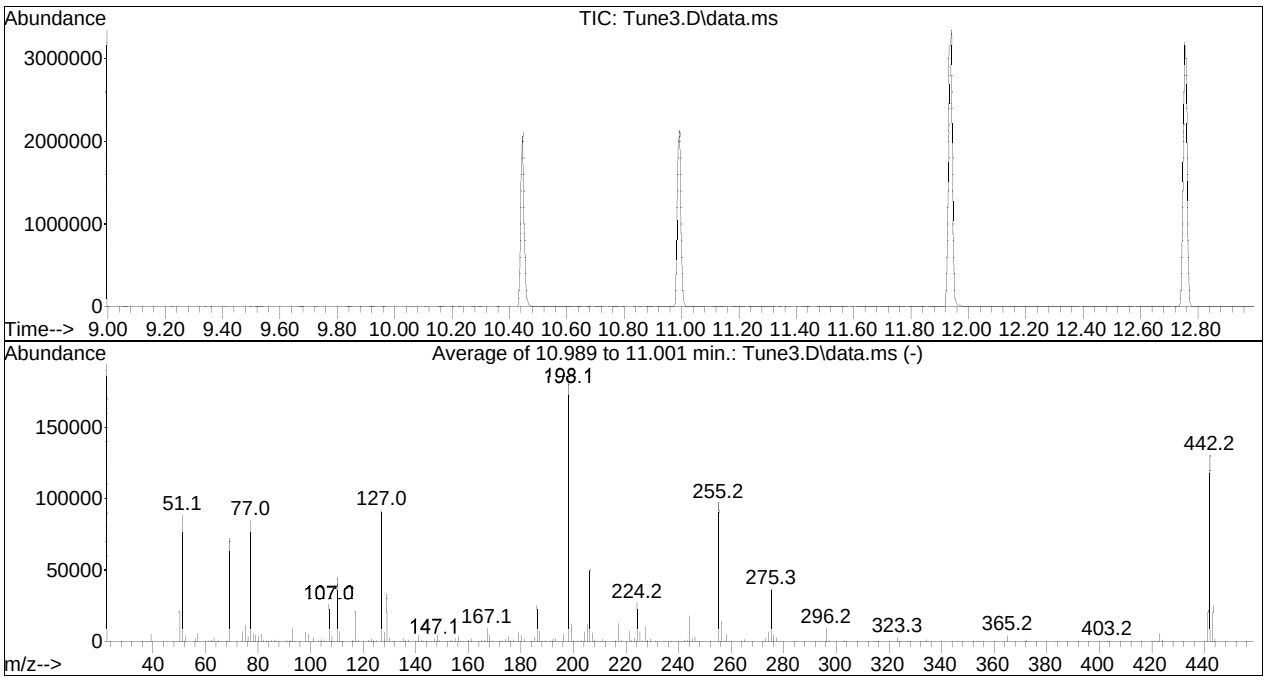
Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ADPICV.D	Operator	: SV107:cmm
Date Inj'd	: 10/26/2023 2:29 pm	Instrument	: SV107
Sample	: CQICV3,32,,ADPICV Lot# 103	Quant Date	: 10/28/2023 5:15 pm

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

Data Path : I:\8270\SV107\231025ical\
Data File : Tune3.D
Acq On : 27 Oct 2023 1:20 pm
Operator : SV107:cmm
Sample : Tune
Misc : WG1845543,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\231025ical\FS231025SV107.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Oct 28 17:08:03 2023



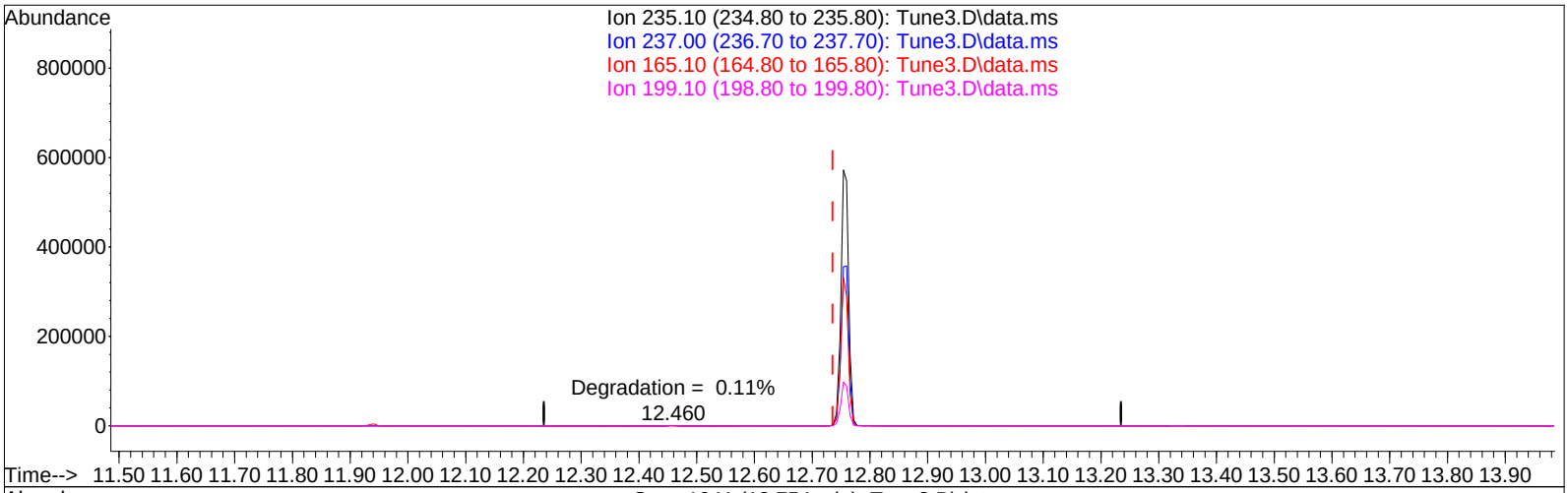
Spectrum Information: Average of 10.989 to 11.001 min.

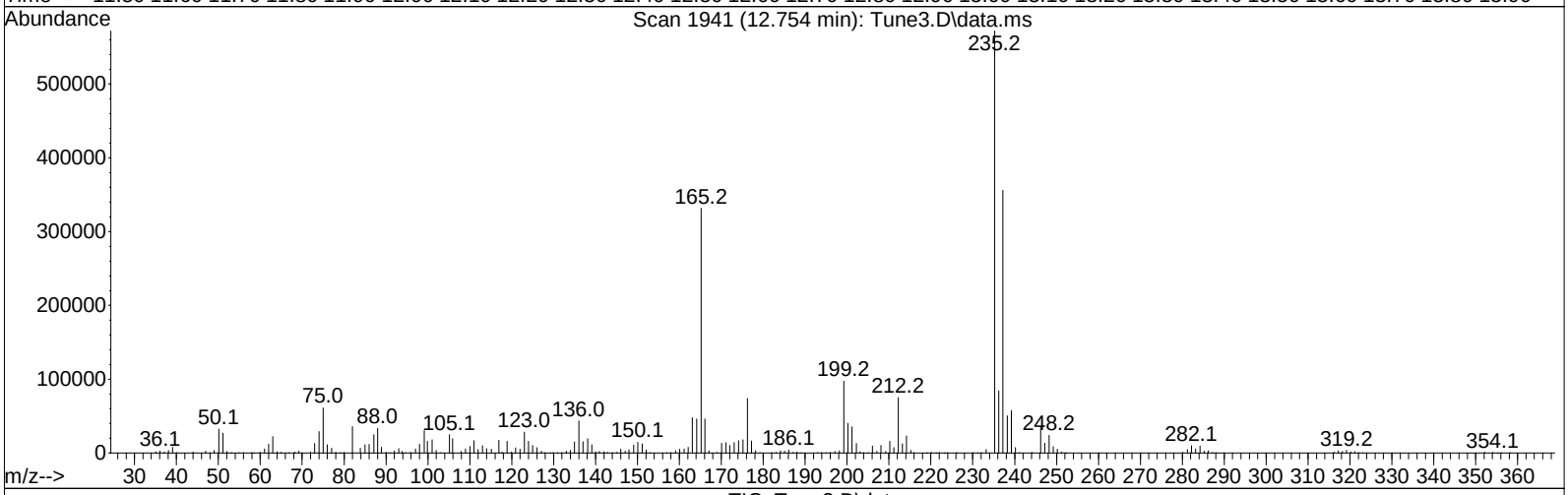
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	47.8	88421	PASS
68	69	0.00	2	1.6	1178	PASS
69	69	100	100	100.0	72016	PASS
70	69	0.00	2	0.2	171	PASS
127	198	10	80	49.8	92032	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	184939	PASS
199	198	5	9	6.7	12348	PASS
275	198	10	60	19.9	36725	PASS
365	198	1	100	2.4	4393	PASS
441	442	0.01	24	16.5	21523	PASS
442	198	50	100	70.6	130611	PASS
443	442	15	24	19.0	24867	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231025ical\
Data File : Tune3.D
Acq On : 27 Oct 2023 1:20 pm
Operator : SV107:cmm
Sample : Tune
Misc : WG1845543,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 28 17:29:14 2023
Quant Method : I:\8270\SV107\231025ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:28:54 2023
Response via : Initial Calibration





TIC: Tune3.D\data.ms

(6) DDT (T)

12.754min (+ 0.018) 87.90

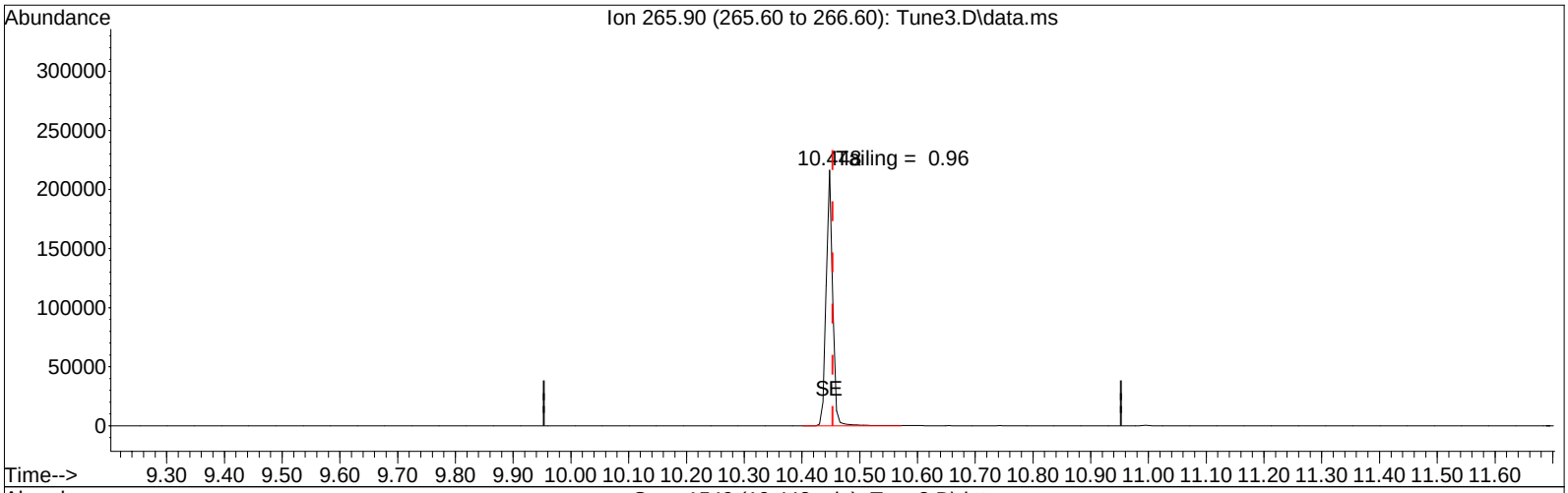
response 535821

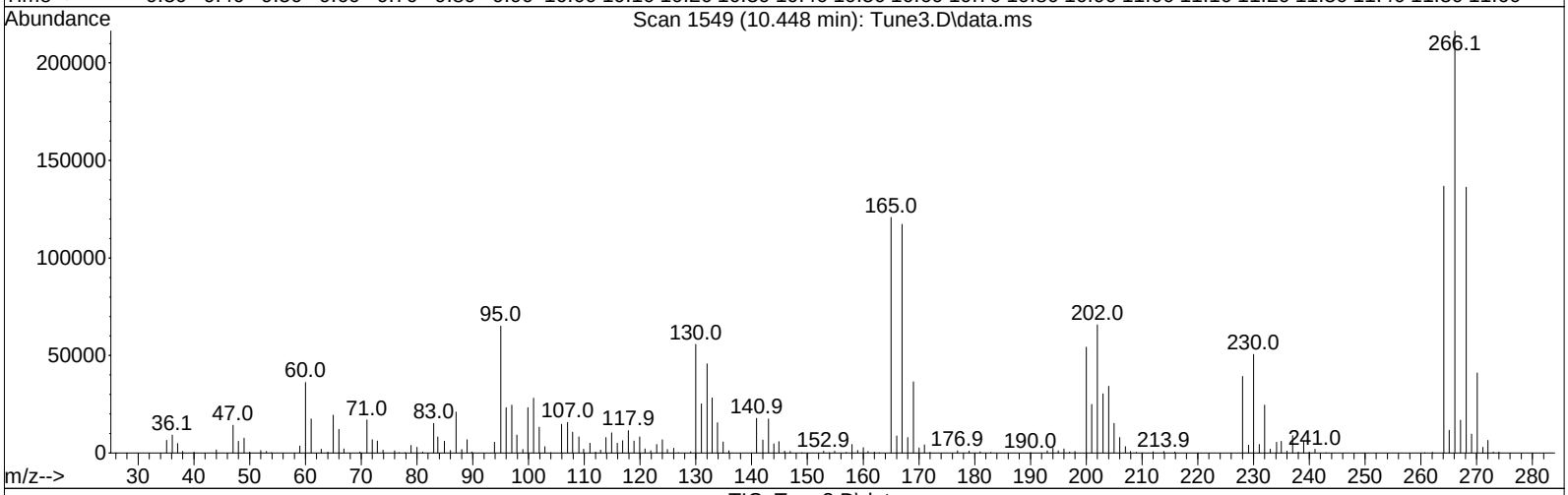
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.70	63.63
165.10	52.70	55.98
199.10	15.10	16.72

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231025ical\
Data File : Tune3.D
Acq On : 27 Oct 2023 1:20 pm
Operator : SV107:cmm
Sample : Tune
Misc : WG1845543,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 28 17:29:14 2023
Quant Method : I:\8270\SV107\231025ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:28:54 2023
Response via : Initial Calibration





TIC: Tune3.D\data.ms

(1) Pentachlorophenol (T)

10.448min (-0.005) 80.23

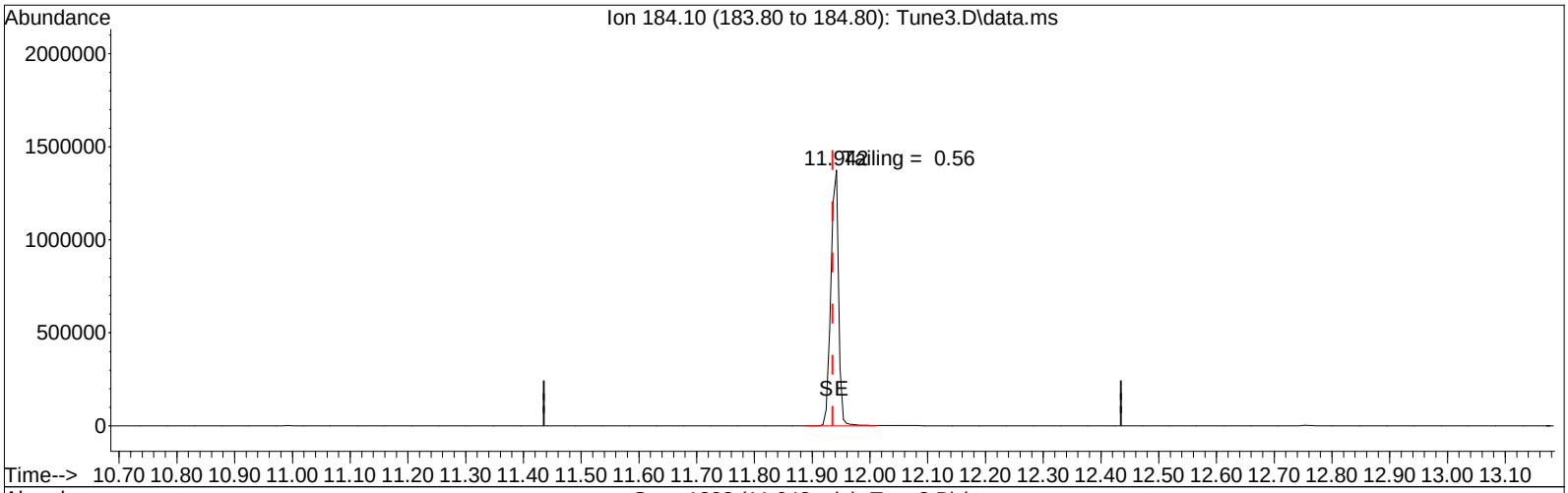
response 168503

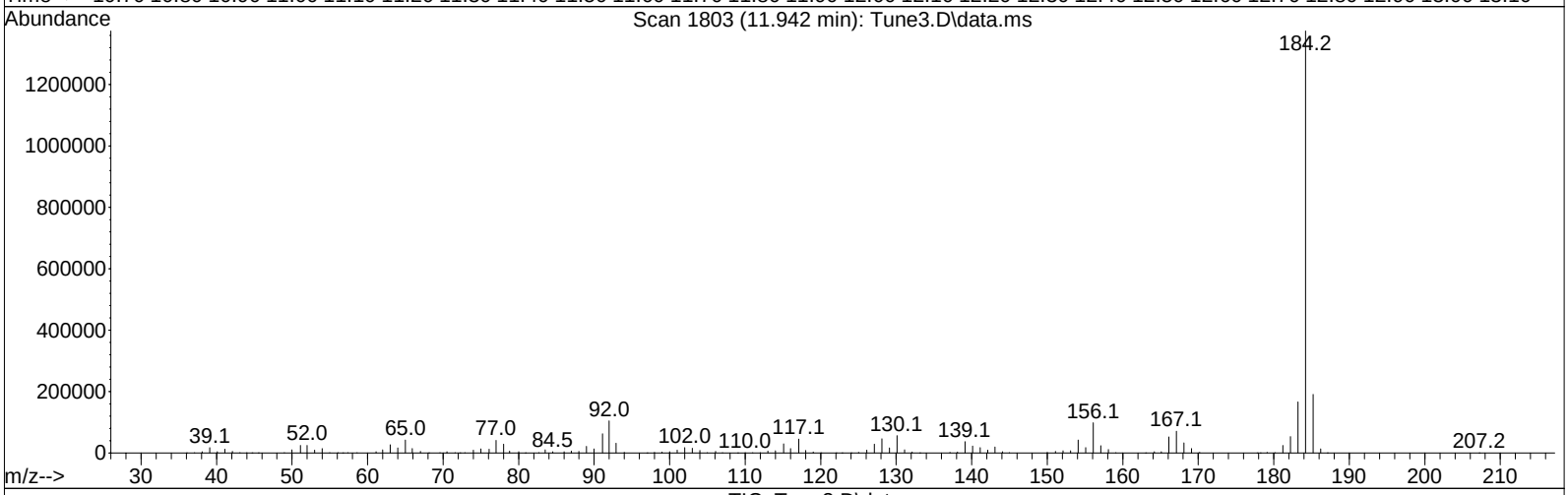
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231025ical\
Data File : Tune3.D
Acq On : 27 Oct 2023 1:20 pm
Operator : SV107:cmm
Sample : Tune
Misc : WG1845543,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 28 17:29:14 2023
Quant Method : I:\8270\SV107\231025ical\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:28:54 2023
Response via : Initial Calibration





TIC: Tune3.D\data.ms

(3) Benzidine (T)

11.942min (+ 0.007) 123.98

response 1262115

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL8a.D
Acq On : 27 Oct 2023 1:53 pm
Operator : SV107:cmm
Sample : IL3,32,,ABNL15 Lot# 10164
Misc : WG1845543,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 27 14:22:27 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 13:50:39 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	5.942	152	26560	4.000	ug/ml	# 0.00
Standard Area 1 = 27259			Recovery = 97.44%			
34) IS1_Naphthalene-d8	7.425	136	101190	4.000	ug/ml	0.00
Standard Area 1 = 100070			Recovery = 101.12%			
62) IS1_Acenaphthene-d10	9.183	164	60391	4.000	ug/ml	0.00
Standard Area 1 = 61827			Recovery = 97.68%			
87) IS1_Phenanthrene-d10	10.607	188	115858	4.000	ug/ml	# 0.00
Standard Area 1 = 118484			Recovery = 97.78%			
103) IS1_Chrysene-d12	13.177	240	96929	4.000	ug/ml	0.00
Standard Area 1 = 97319			Recovery = 99.60%			
112) IS1_Perylene-d12	14.601	264	101347	4.000	ug/ml	0.01
Standard Area 1 = 102757			Recovery = 98.63%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.542	112	120331	17.008	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 340.16%#			
7) Phenol-d6	5.584	99	148973	16.688	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 333.76%#			
19) Nitrobenzene-d5	6.642	82	135586	15.954	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 638.16%#			
45) 2-Fluorobiphenyl	8.560	172	306881	14.870	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 594.80%#			
78) 2,4,6-Tribromophenol	9.948	330	32727	15.183	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 303.66%#			
95) 4-Terphenyl-d14	12.177	244	348688	14.657	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 586.28%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.578	74	80544	16.864	ug/ml#	75
3) Pyridine	1.601	79	144448	17.004	ug/ml	89
5) Aniline	5.507	93	193857	16.351	ug/ml	98
6) 2-Chlorophenol	5.660	128	127873	16.298	ug/ml	97
8) Phenol	5.601	94	158309	16.517	ug/ml	98
9) Bis(2-chloroethyl)ether	5.666	93	128270	16.095	ug/ml#	68
10) 1,3-Dichlorobenzene	5.860	146	145868	15.312	ug/ml	100
11) 1,4-Dichlorobenzene	5.966	146	148253	15.207	ug/ml	99
12) 1,2-Dichlorobenzene	6.154	146	140250	15.122	ug/ml	100
13) Benzyl alcohol	6.189	79	105023	16.825	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.378	45	255601	15.805	ug/ml#	74

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL8a.D
Acq On : 27 Oct 2023 1:53 pm
Operator : SV107:cmm
Sample : IL3,32,,ABNL15 Lot# 10164
Misc : WG1845543,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 27 14:22:27 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 13:50:39 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.383	108	114143	16.740	ug/ml	98
16) Hexachloroethane	6.560	117	58684	15.469	ug/ml#	76
17) n-Nitrosodi-n-propylamine	6.531	70	93339	15.815	ug/ml#	91
18) 3-Methylphenol/4-Methy...	6.583	108	122671	16.720	ug/ml	98
20) Nitrobenzene	6.666	77	139752	15.997	ug/ml	98
21) Isophorone	6.960	82	251626	16.478	ug/ml	94
22) 2-Nitrophenol	7.036	139	61544	15.241	ug/ml#	95
23) 2,4-Dimethylphenol	7.160	107	128886	16.254	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.248	93	166381	15.710	ug/ml#	97
25) 2,4-Dichlorophenol	7.307	162	114041	16.043	ug/ml	98
26) 1,2,4-Trichlorobenzene	7.383	180	126572	15.050	ug/ml	99
35) Naphthalene	7.442	128	383629	15.112	ug/ml	99
36) Benzoic Acid	7.301	105	80633	16.004	ug/ml	96
37) 4-Chloroaniline	7.542	65	57482	16.723	ug/ml	91
38) Hexachlorobutadiene	7.619	225	71761	14.178	ug/ml	98
39) p-Chloro-m-cresol	8.089	107	113231	16.192	ug/ml	98
40) 2-Methylnaphthalene	8.166	142	254675	15.082	ug/ml	95
41) 1-Methylnaphthalene	8.260	115	91232	15.278	ug/ml	93
42) Hexachlorocyclopentadiene	8.348	237	81828	14.456	ug/ml	97
43) 2,4,6-Trichlorophenol	8.472	196	83941	15.868	ug/ml	98
44) 2,4,5-Trichlorophenol	8.501	196	90781	15.804	ug/ml	99
46) 2-Chloronaphthalene	8.642	162	265528	15.350	ug/ml	98
47) 2-Nitroaniline	8.766	138	78223	15.877	ug/ml	98
48) 1,4-Dinitrobenzene	8.907	168	37843	15.112	ug/ml	93
49) 1,3-Dinitrobenzene	8.983	168	43928	15.395	ug/ml#	1
50) Dimethyl phthalate	8.983	163	312197	15.173	ug/ml#	98
51) Acenaphthylene	9.042	152	437049	15.676	ug/ml	99
52) 2,6-Dinitrotoluene	9.019	165	66377	15.819	ug/ml	92
53) 1,2-Dinitrobenzene	9.060	168	27917	15.064	ug/ml#	1
63) 3-Nitroaniline	9.172	138	73840	16.155	ug/ml	99
64) Acenaphthene	9.213	154	245944	14.572	ug/ml	90
65) 2,4-Dinitrophenol	9.272	184	36858	15.163	ug/ml	96
66) Dibenzofuran	9.383	168	370700	14.648	ug/ml#	74
67) 2,4-Dinitrotoluene	9.407	165	93035	15.671	ug/ml	91
68) 4-Nitrophenol	9.377	65	74267	16.111	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.483	232	73301	15.946	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.524	232	74368	16.081	ug/ml	99
71) Diethyl phthalate	9.672	149	312877	15.549	ug/ml	99
72) Fluorene	9.713	166	296684	15.165	ug/ml	93
73) 4-Chlorophenyl phenyl ...	9.742	204	145844	14.532	ug/ml	95

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL8a.D
Acq On : 27 Oct 2023 1:53 pm
Operator : SV107:cmm
Sample : IL3,32,,ABNL15 Lot# 10164
Misc : WG1845543,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 27 14:22:27 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 13:50:39 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical_REV1 - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	9.760	138	72916	16.003	ug/ml#	93
75) 4,6-Dinitro-o-cresol	9.789	198	48827	15.188	ug/ml#	79
76) NDPA/DPA	9.860	169	248220	15.089	ug/ml	94
77) Azobenzene	9.889	77	309809	15.594	ug/ml	98
79) 4-Bromophenyl phenyl e...	10.207	248	75791	14.169	ug/ml	95
80) Hexachlorobenzene	10.248	284	78091	13.887	ug/ml	96
81) Pentachlorophenol	10.448	266	48281	15.469	ug/ml	98
88) Phenanthrene	10.624	178	453467	14.616	ug/ml	99
89) Anthracene	10.677	178	469095	15.435	ug/ml	99
90) Carbazole	10.854	167	423858	15.993	ug/ml	99
91) Di-n-butylphthalate	11.254	149	515758	15.407	ug/ml	99
92) Fluoranthene	11.765	202	525617	15.179	ug/ml#	94
93) Benzidine	11.936	184	336544	15.767	ug/ml#	96
94) Pyrene	11.977	202	564653	15.347	ug/ml	99
96) Butyl benzyl phthalate	12.695	149	219045	16.109	ug/ml	94
104) Benzo(a)anthracene	13.171	228	512102	15.627	ug/ml	99
105) 3,3'-Dichlorobenzidine	13.183	252	175219	15.758	ug/ml	99
106) Chrysene	13.207	228	475109	14.454	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.324	149	339025	16.870	ug/ml#	93
108) Di-n-octylphthalate	13.983	149	554932	16.922	ug/ml#	78
109) Benzo(b)fluoranthene	14.242	252	463821	15.152	ug/ml	97
110) Benzo(k)fluoranthene	14.271	252	485218	16.555	ug/ml	96
111) Benzo(a)pyrene	14.548	252	411434	15.724	ug/ml	96
113) Indeno(1,2,3-cd)pyrene	15.542	276	348436	15.704	ug/mL	98
114) Dibenzo(a,h)anthracene	15.565	278	378478	15.154	ug/ml	97
115) Benzo(ghi)perylene	15.753	276	381031	15.135	ug/ml	97

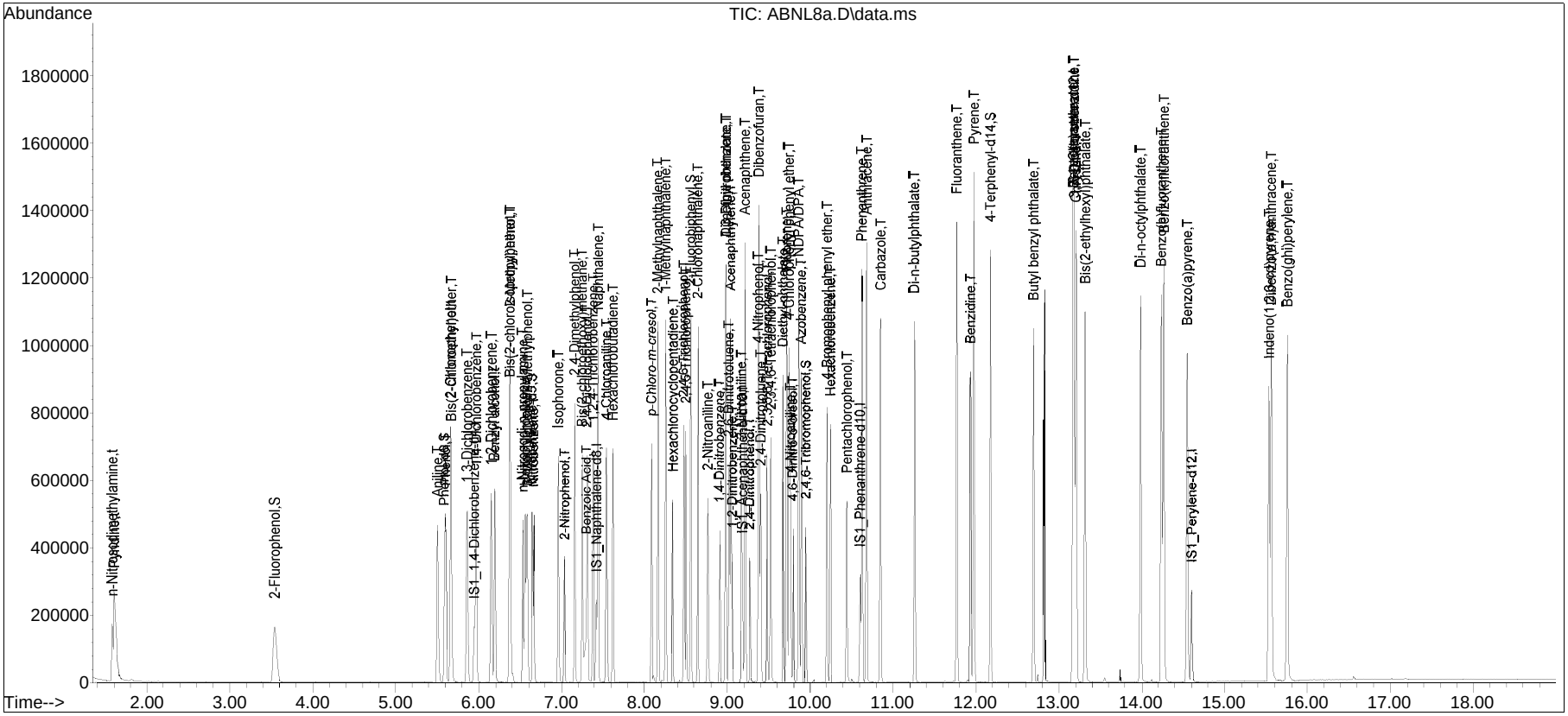
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNL8a.D
Acq On : 27 Oct 2023 1:53 pm
Operator : SV107:cmm
Sample : IL3,32,,ABNL15 Lot# 10164
Misc : WG1845543,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 27 14:22:27 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 13:50:39 2023
Response via : Initial Calibration

Sub List : ABNical_REV1 - ABN ical sublistNL6.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ABNL8a.D	Operator	: SV107:cmm
Date Inj'd	: 10/27/2023 1:53 pm	Instrument	: SV107
Sample	: IL3,32,,ABNL15 Lot# 10164	Quant Date	: 10/27/2023 2:22 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\231025ical\
Data File : ABNICVa.D
Acq On : 27 Oct 2023 2:19 pm
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10007
Misc : WG1845543,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 28 17:14:49 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:08:03 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	108	0.00
2	t	n-Nitrosodimethylamine		0.728	0.739	-1.5	116	0.00
3	t	Pyridine		1.296	1.214	6.3	105	0.00
4	S	2-Fluorophenol		1.080	1.122	-3.9	114	0.00
5	T	Aniline		1.802	1.761	2.3	108	0.00
6	t	2-Chlorophenol		1.192	1.191	0.1	114	0.00
7	S	Phenol-d6		1.360	1.381	-1.5	114	0.00
8	T	Phenol		1.458	1.499	-2.8	115	0.00
9	T	Bis(2-chloroethyl)ether		1.209	1.211	-0.2	112	0.00
10	T	1,3-Dichlorobenzene		1.438	1.421	1.2	114	0.00
11	T	1,4-Dichlorobenzene		1.470	1.428	2.9	112	0.00
12	T	1,2-Dichlorobenzene		1.398	1.377	1.5	112	0.00
13	t	Benzyl alcohol		0.952	0.940	1.3	109	0.00
14	T	Bis(2-chloroisopropyl)ether		2.449	2.423	1.1	112	0.00
15	T	2-Methylphenol		1.039	1.041	-0.2	111	0.00
16	T	Hexachloroethane		0.573	0.559	2.4	114	0.00
17	T	n-Nitrosodi-n-propylamine		0.894	0.854	4.5	109	0.00
18	T	3-Methylphenol/4-Methylphen		1.118	1.108	0.9	111	0.00
19	S	Nitrobenzene-d5		1.288	1.305	-1.3	115	0.00
20	T	Nitrobenzene		1.324	1.318	0.5	113	0.00
21	T	Isophorone		2.322	2.307	0.6	111	0.00
22	T	2-Nitrophenol		0.610	0.557	8.7	108	0.00
23	T	2,4-Dimethylphenol		1.205	1.170	2.9	108	0.00
24	T	Bis(2-chloroethoxy)methane		1.603	1.575	1.7	111	0.00
25	T	2,4-Dichlorophenol		1.079	1.043	3.3	110	0.00
26	T	1,2,4-Trichlorobenzene		1.267	1.143	9.8	107	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	107	0.00
35	T	Naphthalene		1.004	0.995	0.9	110	0.00
36	T	Benzoic Acid	*	5.000	4.542	9.2	106	0.00
37	T	4-Chloroaniline		0.137	0.142	-3.6	110	0.00
38	T	Hexachlorobutadiene		0.199	0.193	3.0	109	0.00
39	T	p-Chloro-m-cresol		0.279	0.287	-2.9	116	0.00
40	T	2-Methylnaphthalene		0.668	0.674	-0.9	110	0.00
41	T	1-Methylnaphthalene		0.236	0.239	-1.3	112	0.00
42	T	Hexachlorocyclopentadiene		0.223	0.210	5.8	105	0.00
43	T	2,4,6-Trichlorophenol		0.210	0.215	-2.4	109	0.00
44	T	2,4,5-Trichlorophenol		0.228	0.234	-2.6	111	0.00
45	S	2-Fluorobiphenyl		0.815	0.825	-1.2	111	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\231025ical\
Data File : ABNICVa.D
Acq On : 27 Oct 2023 2:19 pm
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10007
Misc : WG1845543,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 28 17:14:49 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:08:03 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.685	0.694	-1.3	111	0.00
47	T	2-Nitroaniline	*	5.000	4.728	5.4	112	0.00
48	T	1,4-Dinitrobenzene		0.099	0.096	3.0	111	0.00
49	T	1,3-Dinitrobenzene		0.113	0.110	2.7	110	0.00
50	T	Dimethyl phthalate		0.814	0.854	-4.9	111	0.00
51	T	Acenaphthylene		1.107	1.163	-5.1	113	0.00
52	T	2,6-Dinitrotoluene		0.167	0.172	-3.0	111	0.00
53	T	1,2-Dinitrobenzene		0.073	0.073	0.0	111	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	105	0.00
63	T	3-Nitroaniline		0.306	0.313	-2.3	114	0.00
64	T	Acenaphthene		1.115	1.047	6.1	108	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.454	10.9	102	0.00
66	T	Dibenzofuran		1.672	1.615	3.4	109	0.00
67	T	2,4-Dinitrotoluene		0.395	0.378	4.3	106	0.00
68	T	4-Nitrophenol		0.308	0.295	4.2	107	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.307	0.307	0.0	109	0.00
70	T	2,3,4,6-Tetrachlorophenol	*	5.000	4.519	9.6	105	0.00
71	T	Diethyl phthalate		1.338	1.348	-0.7	110	0.00
72	T	Fluorene		1.297	1.301	-0.3	113	0.00
73	T	4-Chlorophenyl phenyl ether		0.663	0.642	3.2	112	0.00
74	T	4-Nitroaniline		0.304	0.300	1.3	108	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.686	6.3	108	0.00
76	T	NDPA/DPA		1.090	1.095	-0.5	111	0.00
77	T	Azobenzene		1.322	1.371	-3.7	115	0.00
78	S	2,4,6-Tribromophenol	*	5.000	4.447	11.1	109	0.00
79	T	4-Bromophenyl phenyl ether		0.352	0.333	5.4	108	0.00
80	T	Hexachlorobenzene		0.370	0.337	8.9	104	0.00
81	T	Pentachlorophenol	*	5.000	4.455	10.9	106	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	106	0.00
88	T	Phenanthrene		1.068	1.025	4.0	109	0.00
89	T	Anthracene		1.052	1.026	2.5	106	0.00
90	T	Carbazole		0.921	0.954	-3.6	111	0.00
91	T	Di-n-butylphthalate		1.160	1.086	6.4	105	0.00
92	T	Fluoranthene		1.197	1.177	1.7	108	0.00
93	T	Benzidine	*	5.000	4.795	4.1	111	0.00
94	T	Pyrene		1.273	1.284	-0.9	108	0.00
95	S	4-Terphenyl-d14		0.819	0.838	-2.3	112	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\231025ical\
Data File : ABNICVa.D
Acq On : 27 Oct 2023 2:19 pm
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10007
Misc : WG1845543,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 28 17:14:49 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:08:03 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.379	12.4	108	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	111	0.00
104	T	Benzo(a)anthracene		1.358	1.345	1.0	116	0.00
105	T	3,3'-Dichlorobenzidine		0.462	0.441	4.5	114	0.00
106	T	Chrysene		1.352	1.345	0.5	117	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.567	8.7	108	0.00
108	T	Di-n-octylphthalate	*	5.000	4.252	15.0	104	0.00
109	T	Benzo(b)fluoranthene		1.265	1.204	4.8	109	0.00
110	T	Benzo(k)fluoranthene		1.222	1.253	-2.5	107	0.00
111	T	Benzo(a)pyrene		1.086	1.150	-5.9	117	0.00
112	I	IS1_Perylene-d12		1.000	1.000	0.0	107	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.880	0.861	2.2	111	0.01
114	T	Dibenzo(a,h)anthracene		0.987	0.953	3.4	106	0.00
115	T	Benzo(ghi)perylene		0.995	1.000	-0.5	108	0.01

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNICVa.D
Acq On : 27 Oct 2023 2:19 pm
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10007
Misc : WG1845543,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 28 17:14:49 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:08:03 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	5.948	152	29318	4.000 ug/ml	0.00
Standard Area 1 = 27259			Recovery = 107.55%		
34) IS1_Naphthalene-d8	7.425	136	106669	4.000 ug/ml	0.00
Standard Area 1 = 100070			Recovery = 106.59%		
62) IS1_Acenaphthene-d10	9.183	164	65126	4.000 ug/ml	0.00
Standard Area 1 = 61827			Recovery = 105.34%		
87) IS1_Phenanthrene-d10	10.601	188	125625	4.000 ug/ml	# 0.00
Standard Area 1 = 118484			Recovery = 106.03%		
103) IS1_Chrysene-d12	13.177	240	107728	4.000 ug/ml	0.00
Standard Area 1 = 97319			Recovery = 110.70%		
112) IS1_Perylene-d12	14.595	264	110193	4.000 ug/ml	0.00
Standard Area 1 = 102757			Recovery = 107.24%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.554	112	41113	5.195 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 103.90%		
7) Phenol-d6	5.589	99	50602	5.078 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 101.56%		
19) Nitrobenzene-d5	6.648	82	47817	5.065 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 202.60%#		
45) 2-Fluorobiphenyl	8.560	172	110055	5.063 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 202.52%#		
78) 2,4,6-Tribromophenol	9.948	330	11255	4.447 ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 88.94%		
95) 4-Terphenyl-d14	12.177	244	131619	5.114 ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 204.56%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.590	74	27066	5.071 ug/ml#	78
3) Pyridine	1.619	79	44482	4.681 ug/ml	88
5) Aniline	5.513	93	64529	4.887 ug/ml	98
6) 2-Chlorophenol	5.666	128	43650	4.997 ug/ml	97
8) Phenol	5.607	94	54935	5.140 ug/ml	98
9) Bis(2-chloroethyl)ether	5.672	93	44369	5.007 ug/ml#	68
10) 1,3-Dichlorobenzene	5.860	146	52088	4.943 ug/ml	99
11) 1,4-Dichlorobenzene	5.966	146	52346	4.858 ug/ml	99
12) 1,2-Dichlorobenzene	6.154	146	50464	4.925 ug/ml	99
13) Benzyl alcohol	6.189	79	34461	4.941 ug/ml	98
14) Bis(2-chloroisopropyl)...	6.384	45	88788	4.947 ug/ml#	75

Data Path : I:\8270\SV107\231025ical\
Data File : ABNICVa.D
Acq On : 27 Oct 2023 2:19 pm
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10007
Misc : WG1845543,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 28 17:14:49 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:08:03 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	6.384	108	38137	5.009	ug/ml	97
16) Hexachloroethane	6.560	117	20472	4.873	ug/ml#	74
17) n-Nitrosodi-n-propylamine	6.531	70	31305	4.776	ug/ml#	92
18) 3-Methylphenol/4-Methy...	6.584	108	40595	4.956	ug/ml	97
20) Nitrobenzene	6.666	77	48297	4.975	ug/ml	97
21) Isophorone	6.960	82	84533	4.966	ug/ml	95
22) 2-Nitrophenol	7.036	139	20413	4.569	ug/ml#	96
23) 2,4-Dimethylphenol	7.160	107	42885	4.855	ug/ml	99
24) Bis(2-chloroethoxy)met...	7.248	93	57725	4.912	ug/ml	99
25) 2,4-Dichlorophenol	7.313	162	38222	4.834	ug/ml	97
26) 1,2,4-Trichlorobenzene	7.383	180	41881	4.510	ug/ml	96
35) Naphthalene	7.442	128	132639	4.953	ug/ml	99
36) Benzoic Acid	7.260	105	22546	4.542	ug/ml	95
37) 4-Chloroaniline	7.542	65	18920	5.162	ug/ml	97
38) Hexachlorobutadiene	7.619	225	25792	4.861	ug/ml	97
39) p-Chloro-m-cresol	8.089	107	38218	5.139	ug/ml	98
40) 2-Methylnaphthalene	8.166	142	89859	5.046	ug/ml	94
41) 1-Methylnaphthalene	8.260	115	31880	5.055	ug/ml	93
42) Hexachlorocyclopentadiene	8.348	237	27938	4.703	ug/ml	94
43) 2,4,6-Trichlorophenol	8.472	196	28615	5.099	ug/ml	99
44) 2,4,5-Trichlorophenol	8.501	196	31225	5.126	ug/ml	98
46) 2-Chloronaphthalene	8.642	162	92571	5.065	ug/ml	98
47) 2-Nitroaniline	8.766	138	25874	4.728	ug/ml	99
48) 1,4-Dinitrobenzene	8.907	168	12735	4.819	ug/ml	92
49) 1,3-Dinitrobenzene	8.977	168	14723	4.876	ug/ml#	1
50) Dimethyl phthalate	8.977	163	113864	5.244	ug/ml#	98
51) Acenaphthylene	9.036	152	155024	5.251	ug/ml	99
52) 2,6-Dinitrotoluene	9.019	165	22950	5.153	ug/ml	93
53) 1,2-Dinitrobenzene	9.054	168	9681	4.952	ug/ml#	1
63) 3-Nitroaniline	9.172	138	25471	5.118	ug/ml#	97
64) Acenaphthene	9.213	154	85213	4.695	ug/ml	92
65) 2,4-Dinitrophenol	9.272	184	10810	4.454	ug/ml	93
66) Dibenzofuran	9.383	168	131433	4.827	ug/ml#	77
67) 2,4-Dinitrotoluene	9.401	165	30802	4.784	ug/ml	92
68) 4-Nitrophenol	9.377	65	24044	4.792	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.483	232	25014	5.011	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.525	232	24610	4.519	ug/ml	95
71) Diethyl phthalate	9.672	149	109747	5.039	ug/ml	99
72) Fluorene	9.713	166	105930	5.015	ug/ml	95
73) 4-Chlorophenyl phenyl ...	9.742	204	52253	4.843	ug/ml	95

Data Path : I:\8270\SV107\231025ical\
Data File : ABNICVa.D
Acq On : 27 Oct 2023 2:19 pm
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10007
Misc : WG1845543,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 28 17:14:49 2023
Quant Method : I:\8270\SV107\231025ical\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Oct 28 17:08:03 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231025ical\ABNL6.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	9.754	138	24445	4.934	ug/ml#	94
75)	4,6-Dinitro-o-cresol	9.789	198	15577	4.686	ug/ml#	79
76)	NDPA/DPA	9.860	169	89139	5.021	ug/ml	96
77)	Azobenzene	9.889	77	111598	5.186	ug/ml	97
79)	4-Bromophenyl phenyl e...	10.207	248	27129	4.729	ug/ml	95
80)	Hexachlorobenzene	10.248	284	27457	4.562	ug/ml	97
81)	Pentachlorophenol	10.442	266	15864	4.455	ug/ml	99
88)	Phenanthrene	10.624	178	160898	4.795	ug/ml	100
89)	Anthracene	10.672	178	161067	4.874	ug/ml	99
90)	Carbazole	10.848	167	149741	5.176	ug/ml	98
91)	Di-n-butylphthalate	11.254	149	170573	4.683	ug/ml	99
92)	Fluoranthene	11.766	202	184810	4.916	ug/ml#	95
93)	Benzidine	11.930	184	108033	4.795	ug/ml#	96
94)	Pyrene	11.971	202	201652	5.043	ug/ml	99
96)	Butyl benzyl phthalate	12.695	149	68125	4.379	ug/ml	95
104)	Benzo(a)anthracene	13.165	228	181173	4.954	ug/ml	99
105)	3,3'-Dichlorobenzidine	13.183	252	59337	4.771	ug/ml	99
106)	Chrysene	13.201	228	181074	4.975	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	13.318	149	106067	4.567	ug/ml#	92
108)	Di-n-octylphthalate	13.977	149	164169	4.252	ug/ml#	79
109)	Benzo(b)fluoranthene	14.236	252	162080	4.759	ug/ml	96
110)	Benzo(k)fluoranthene	14.265	252	168763	5.128	ug/ml#	95
111)	Benzo(a)pyrene	14.542	252	154820	5.295	ug/ml	96
113)	Indeno(1,2,3-cd)pyrene	15.536	276	118648	4.893	ug/mL	98
114)	Dibenzo(a,h)anthracene	15.559	278	131266	4.828	ug/ml	97
115)	Benzo(ghi)perylene	15.748	276	137695	5.026	ug/ml	96

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231025ical\
Data File : ABNICVa.D
Acq On : 27 Oct 2023 2:19 pm
Operator : SV107:cmm
Sample : CQICV1,32,,ABNICV Lot# 10007
Misc : WG1845543,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 28 17:14:49 2023
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Quant Title : Semivolatiles by GC/MS by modified 8270
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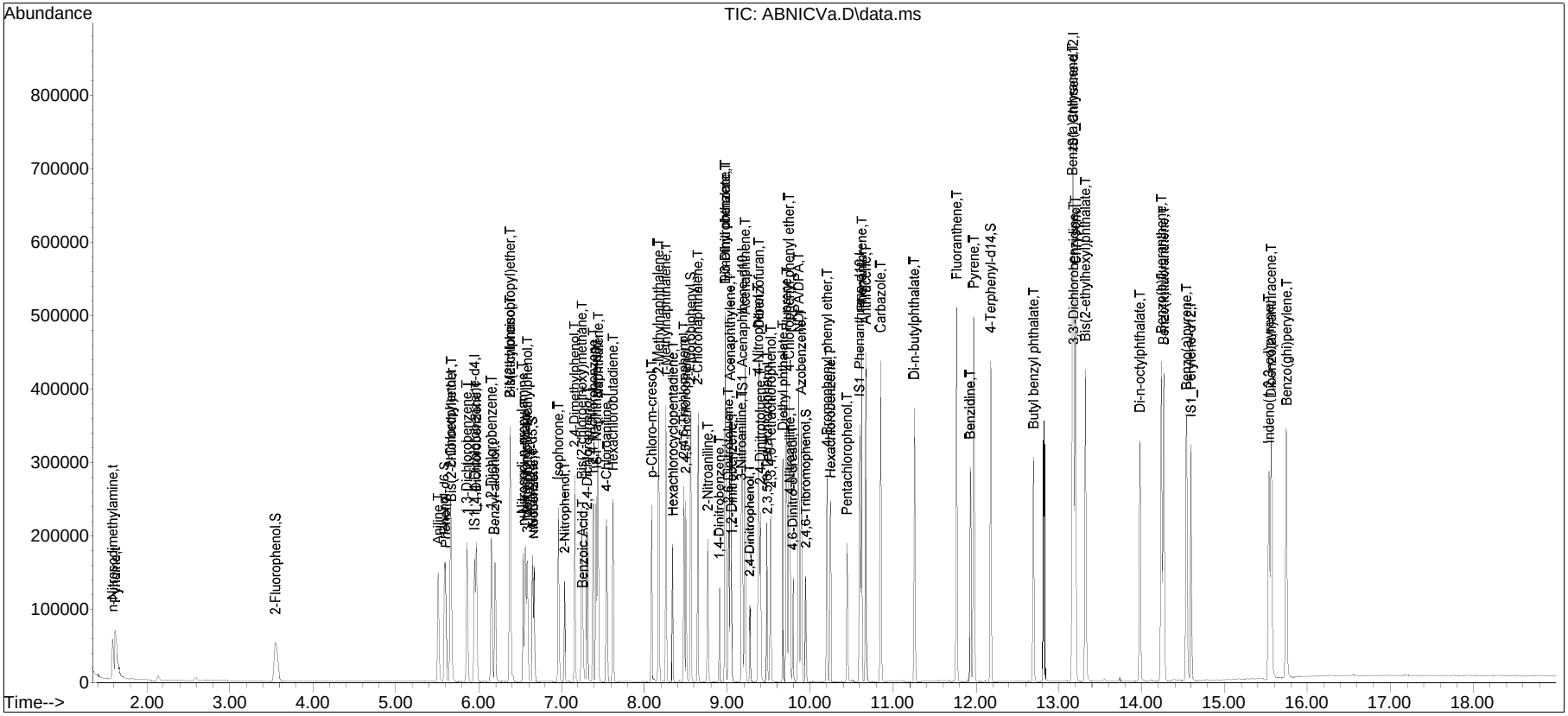
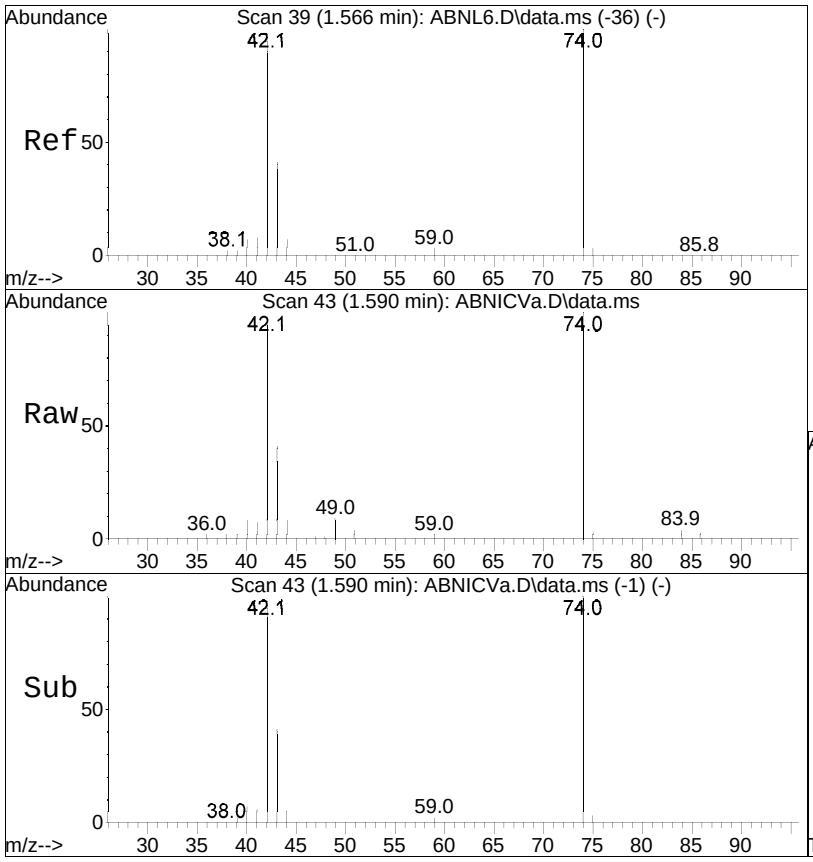
Sub List : ABNical - ABN ical sublistal\ABNL6.D•

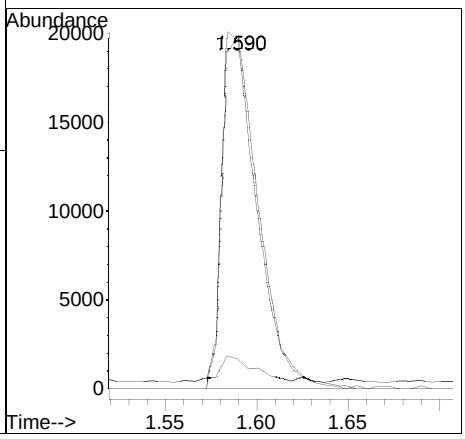


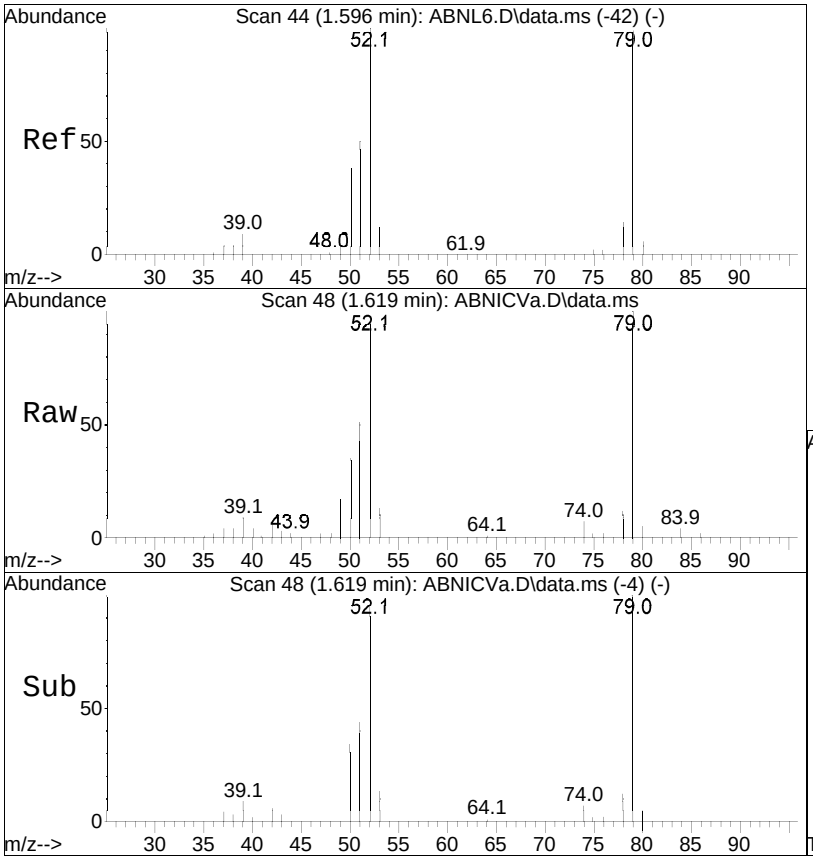


#2
n-Nitrosodimethylamine
Concen: 5.07 ug/ml
RT: 1.590 min Scan# 43
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 74 Resp: 27066

Ion	Ratio	Lower	Upper
74	100		
42	97.9	100.0	150.0#
44	7.4	6.7	10.1

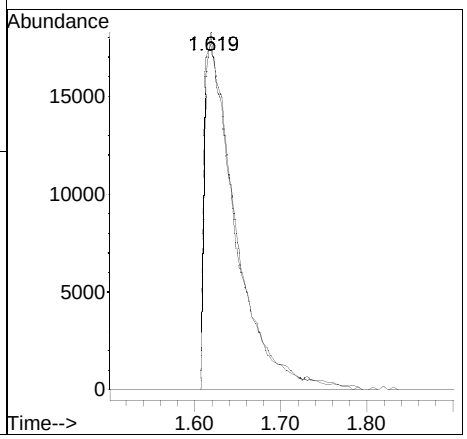


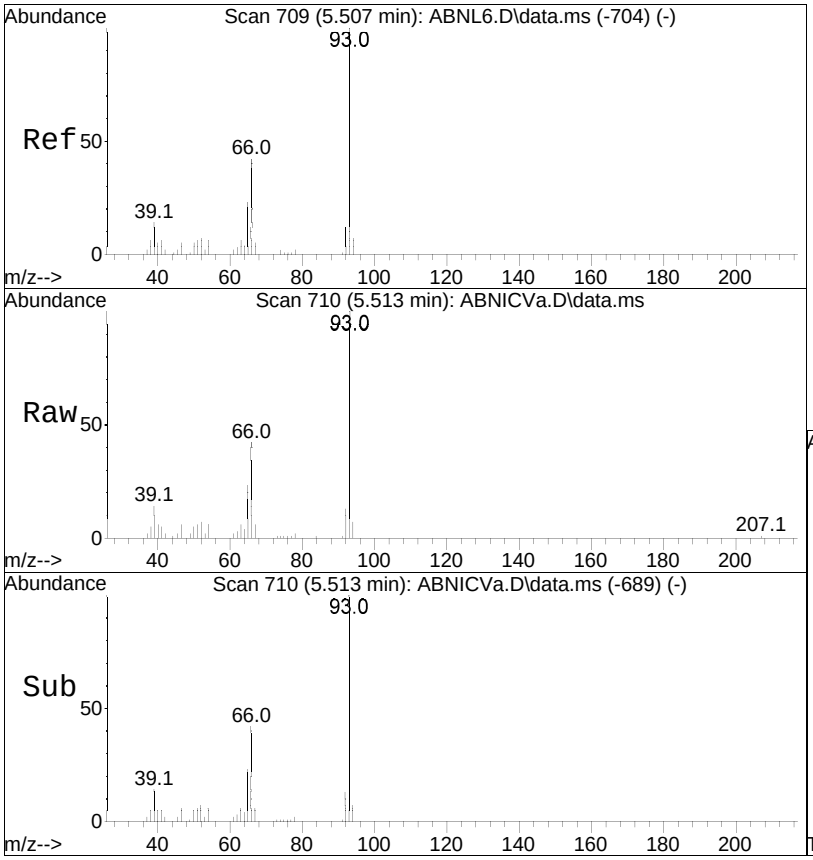


#3
Pyridine
Concen: 4.68 ug/ml
RT: 1.619 min Scan# 48
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 79 Resp: 44482

Ion	Ratio	Lower	Upper
79	100		
52	102.9	93.1	139.7

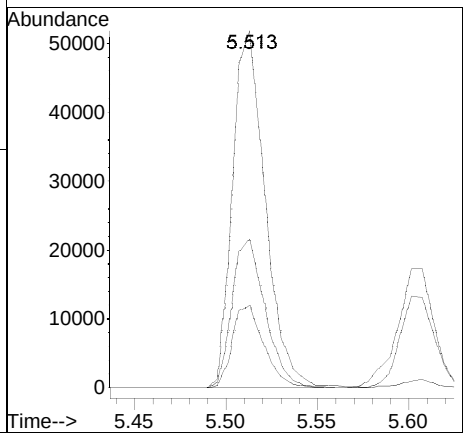


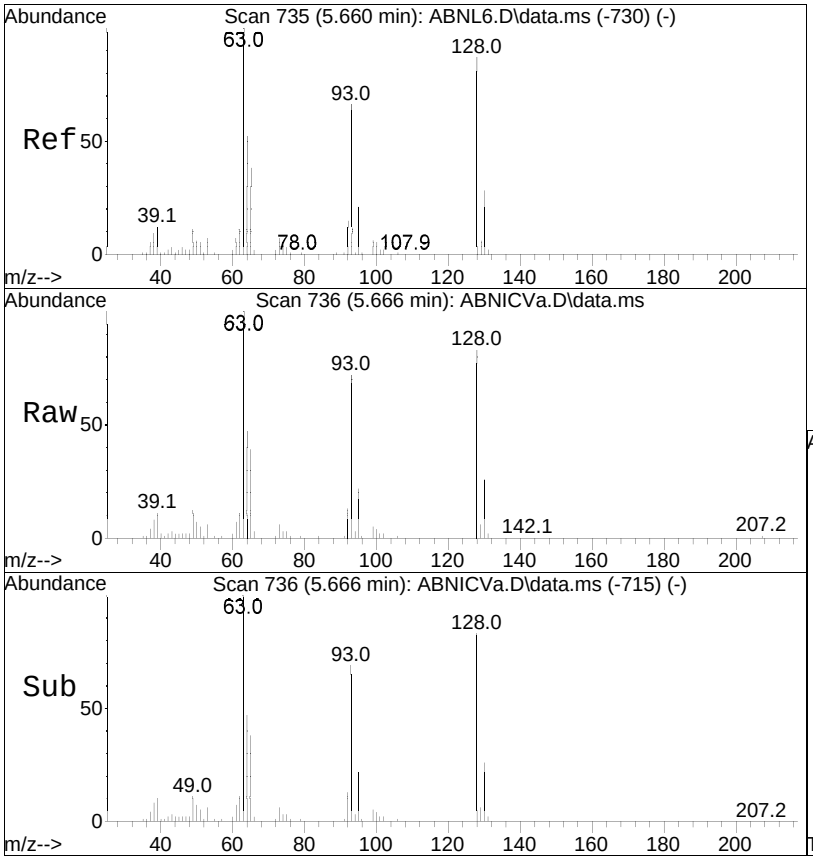


#5
Aniline
Concen: 4.89 ug/ml
RT: 5.513 min Scan# 710
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 93 Resp: 64529

Ion	Ratio	Lower	Upper
93	100		
66	42.4	32.6	49.0
65	22.6	17.6	26.4

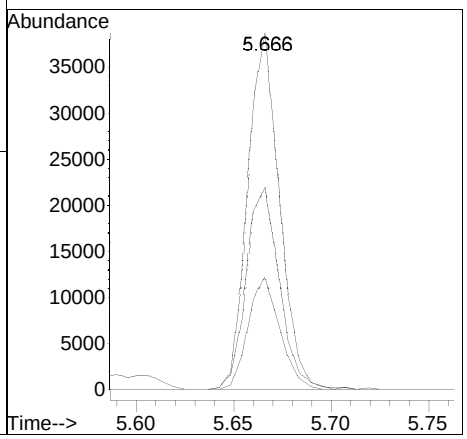


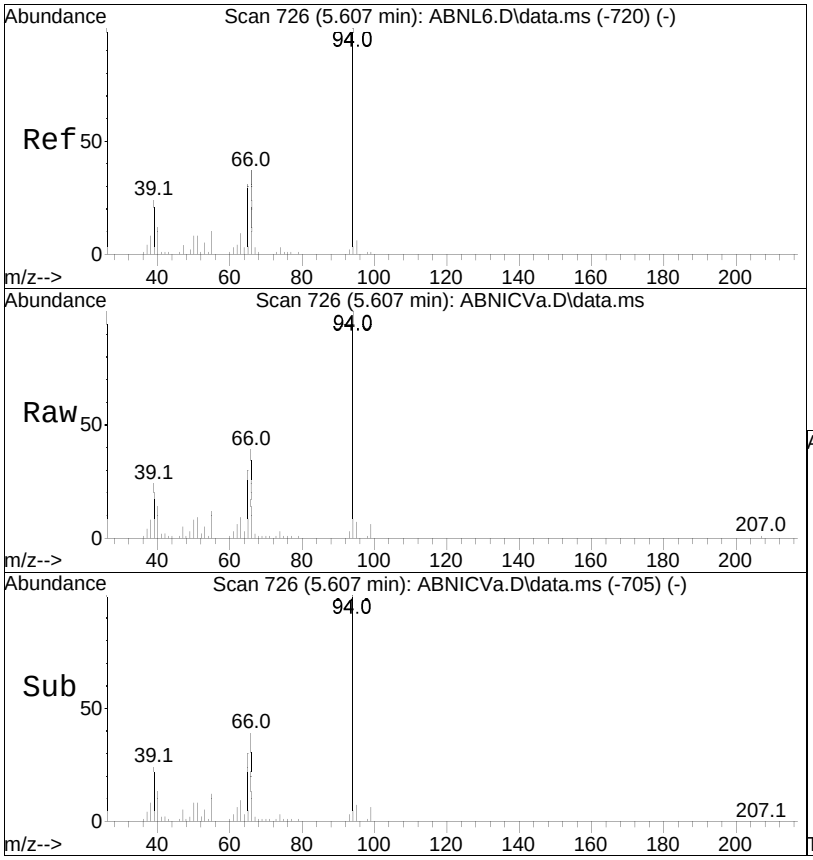


#6
2-Chlorophenol
Concen: 5.00 ug/ml
RT: 5.666 min Scan# 736
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:128 Resp: 43650

Ion	Ratio	Lower	Upper
128	100		
64	59.6	45.1	67.7
130	31.7	26.2	39.4

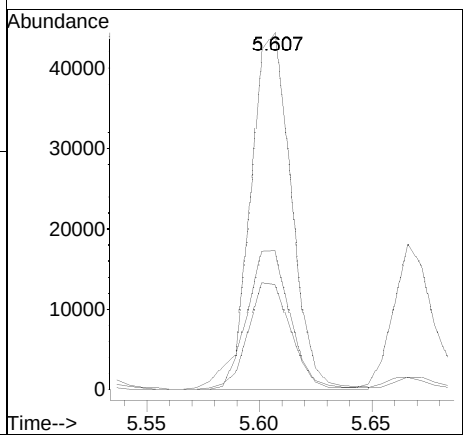


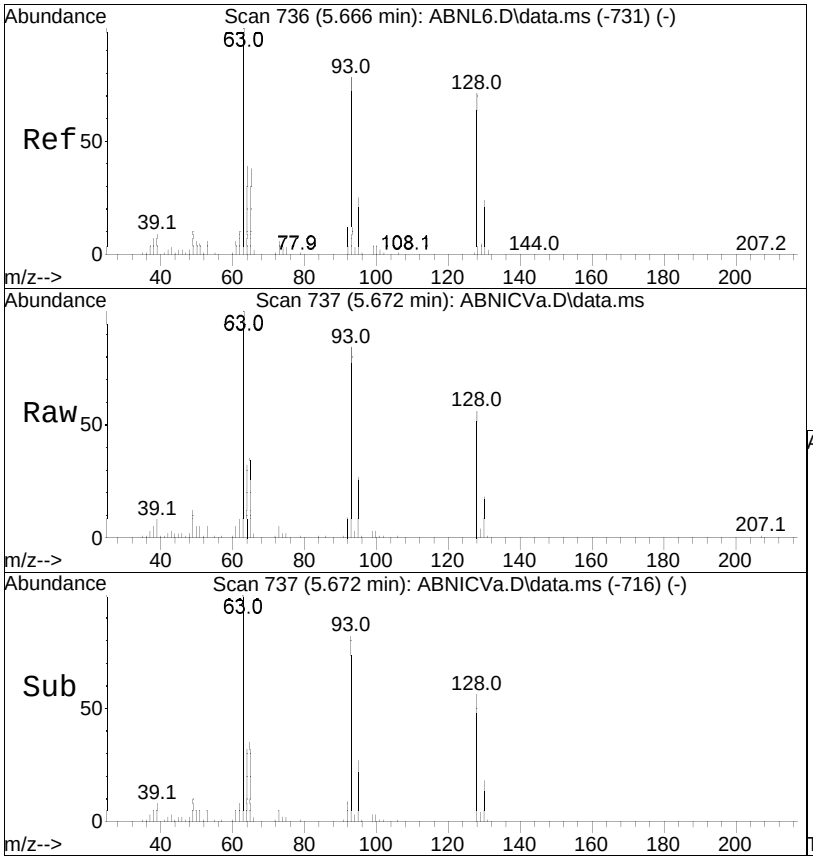


#8
Phenol
Concen: 5.14 ug/ml
RT: 5.607 min Scan# 726
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 94 Resp: 54935

Ion	Ratio	Lower	Upper
94	100		
65	32.2	26.0	39.0
66	44.4	33.8	50.8

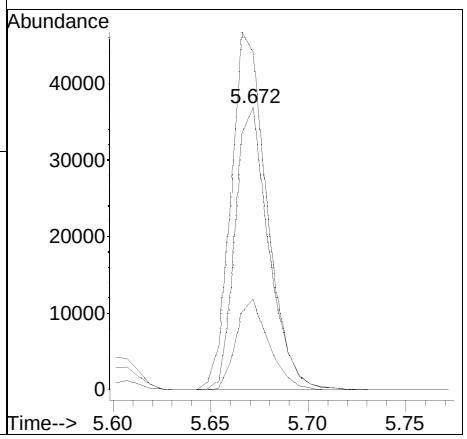


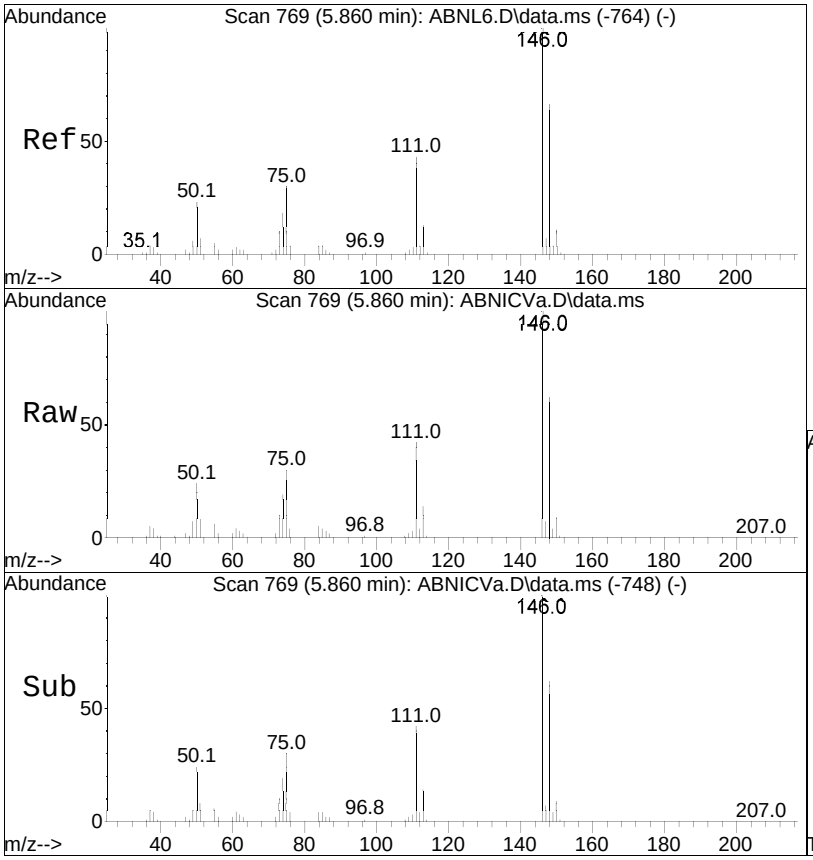


#9
Bis(2-chloroethyl)ether
Concen: 5.01 ug/ml
RT: 5.672 min Scan# 737
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 93 Resp: 44369

Ion	Ratio	Lower	Upper
93	100		
63	134.2	74.6	111.8#
95	31.3	25.9	38.9

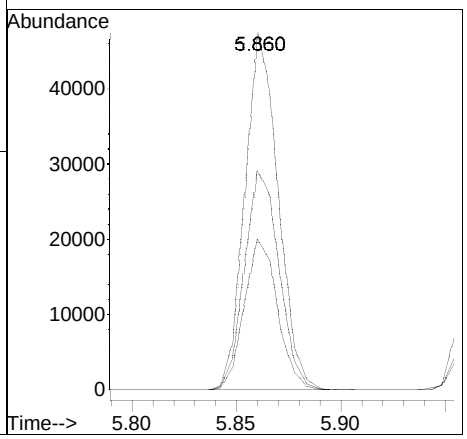


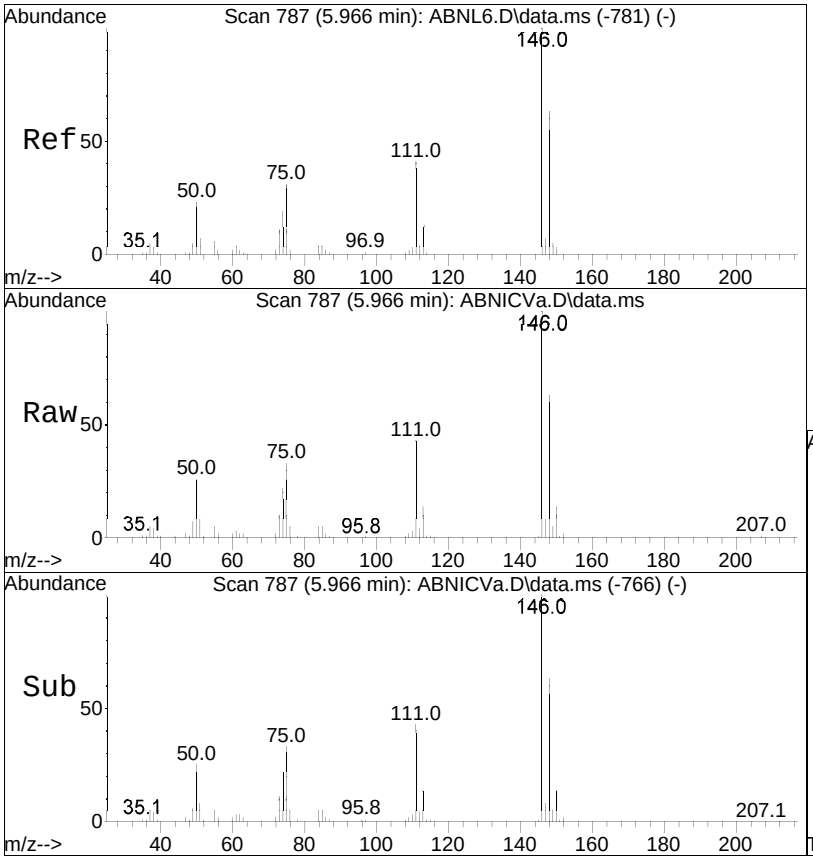


#10
1,3-Dichlorobenzene
Concen: 4.94 ug/ml
RT: 5.860 min Scan# 769
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:146 Resp: 52088

Ion	Ratio	Lower	Upper
146	100		
111	42.4	34.3	51.5
148	63.8	50.8	76.2

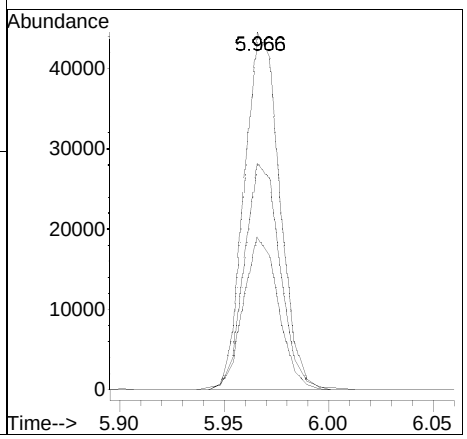


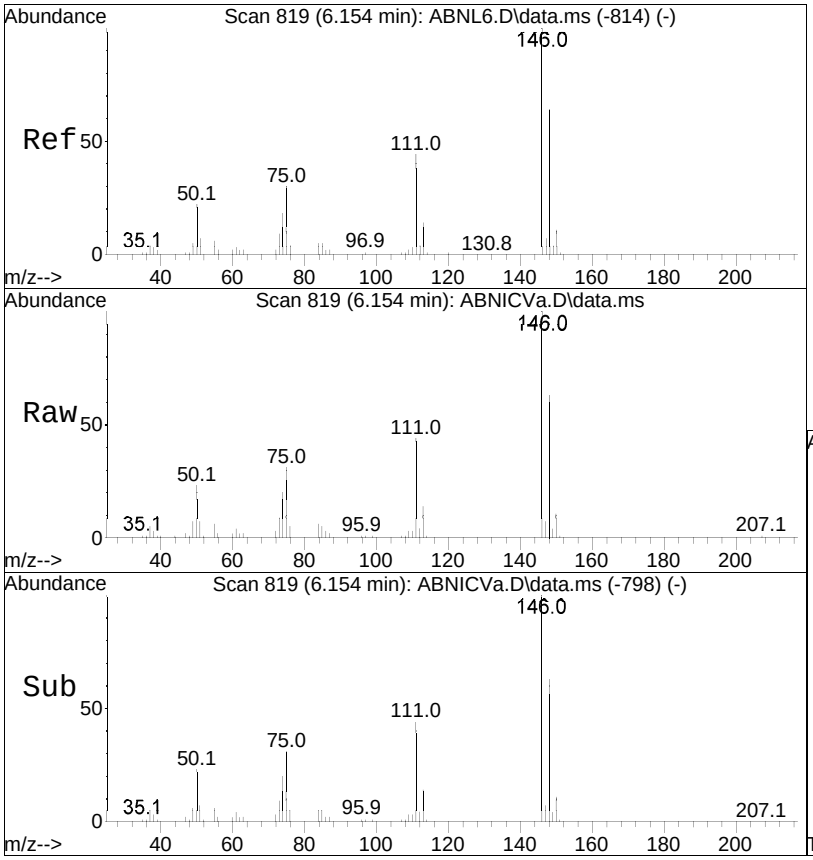


#11
1,4-Dichlorobenzene
Concen: 4.86 ug/ml
RT: 5.966 min Scan# 787
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:146 Resp: 52346

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.7	76.1
111	42.7	33.4	50.0

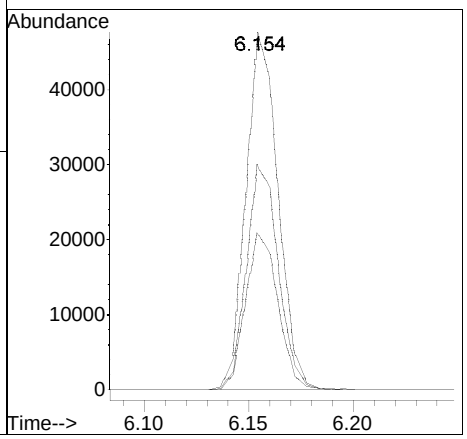


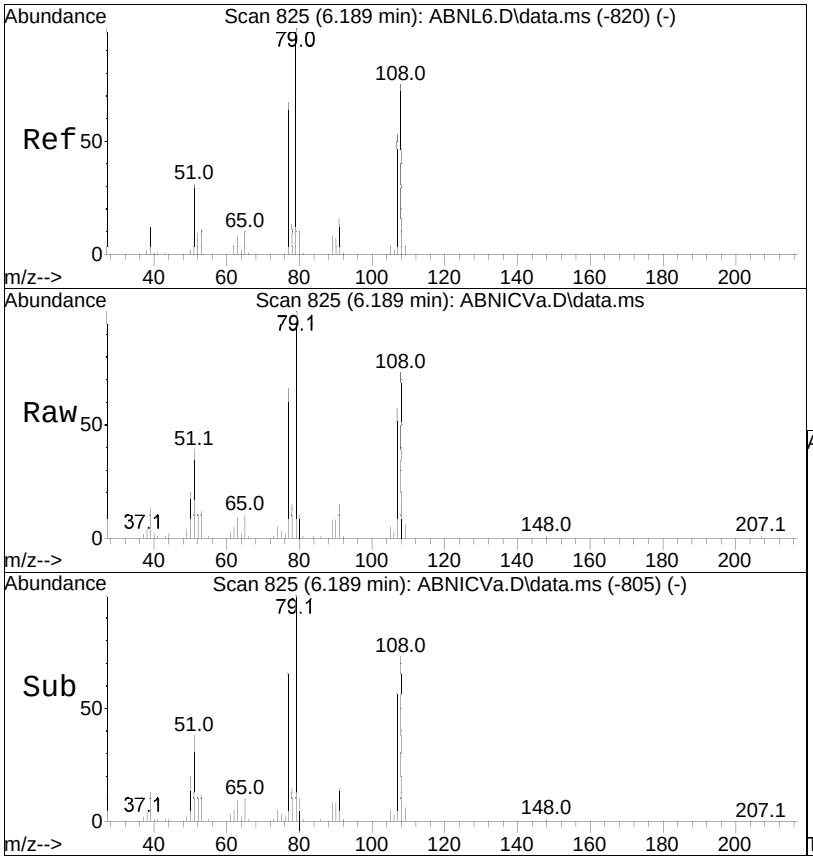


#12
1,2-Dichlorobenzene
Concen: 4.93 ug/ml
RT: 6.154 min Scan# 819
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:146 Resp: 50464

Ion	Ratio	Lower	Upper
146	100		
111	44.4	34.6	52.0
148	62.7	50.2	75.4

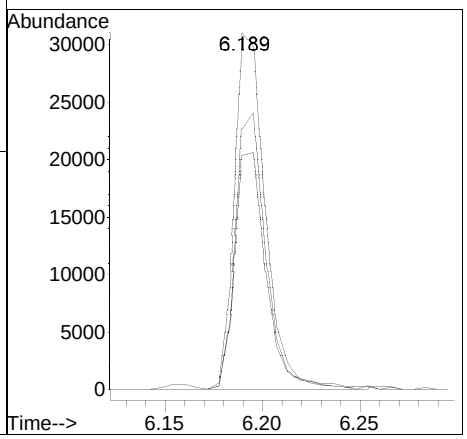


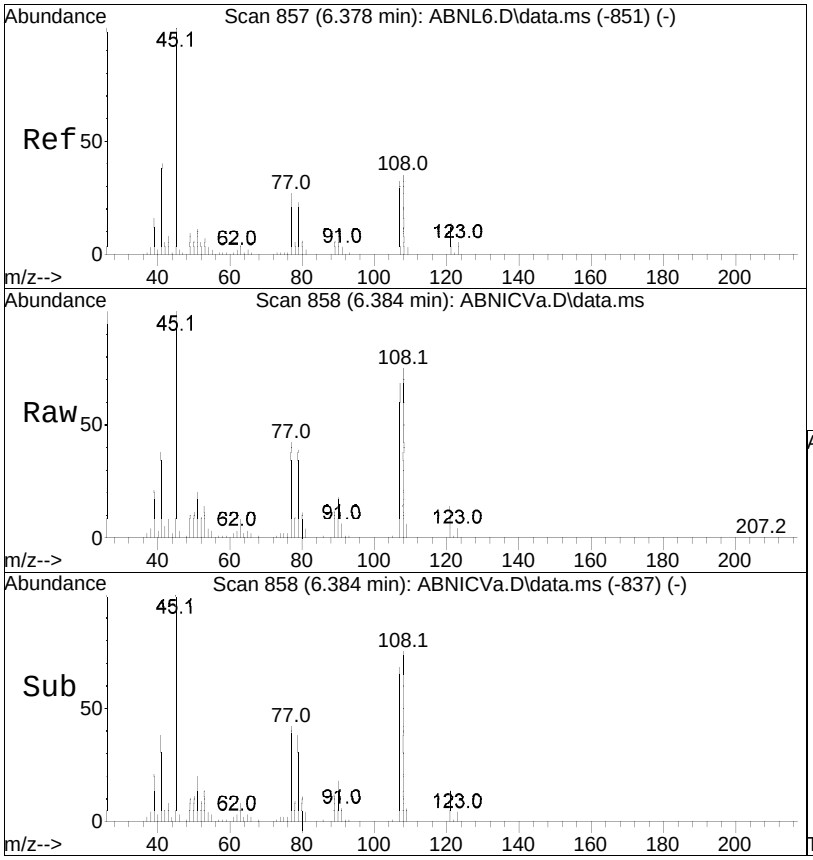


#13
Benzyl alcohol
Concen: 4.94 ug/ml
RT: 6.189 min Scan# 825
Delta R.T. -0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 79 Resp: 34461

Ion	Ratio	Lower	Upper
79	100		
77	67.2	54.9	82.3
108	76.6	63.1	94.7

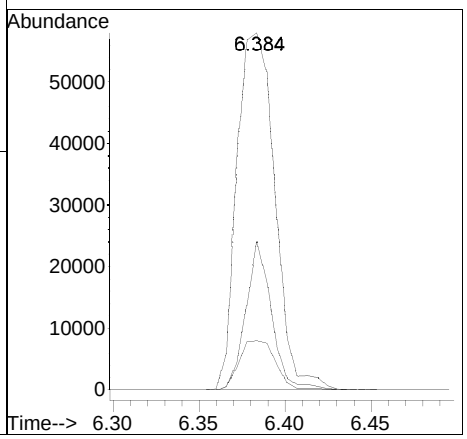


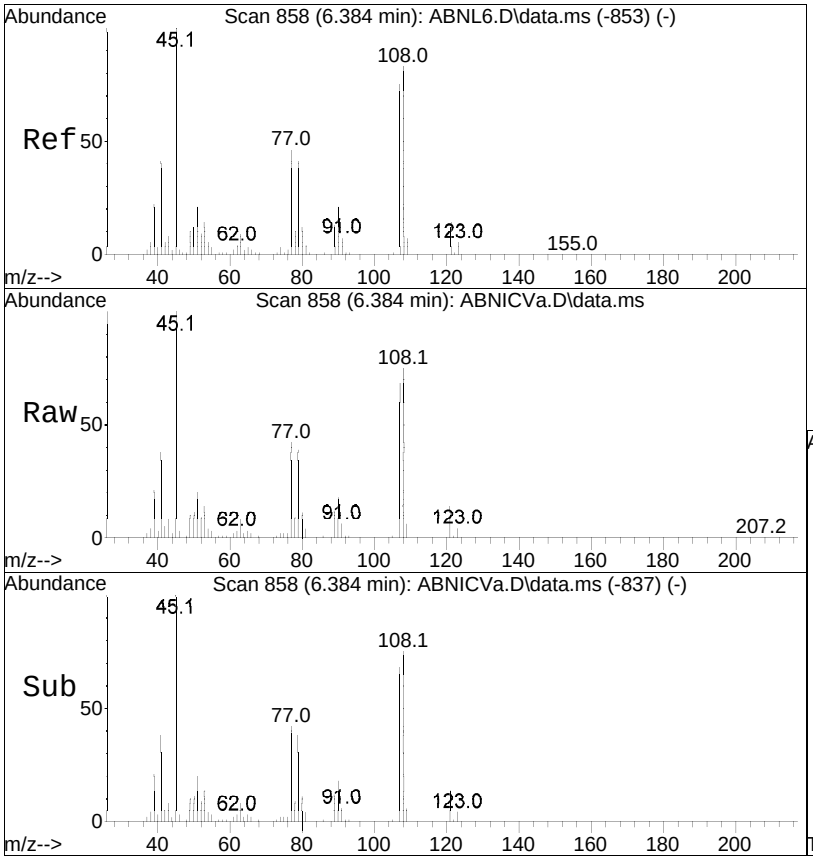


#14
Bis(2-chloroisopropyl)ether
Concen: 4.95 ug/ml
RT: 6.384 min Scan# 858
Delta R.T. 0.001 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 45 Resp: 88788

Ion	Ratio	Lower	Upper
45	100		
121	13.5	9.8	14.6
77	28.5	6.1	9.1#

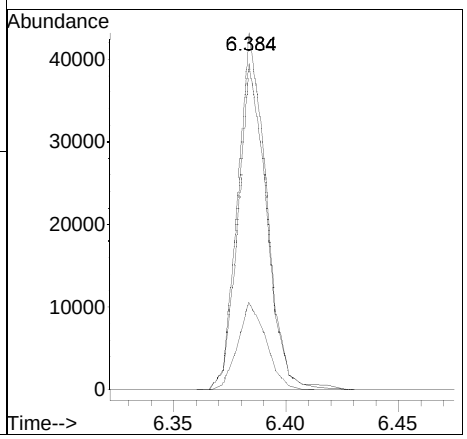


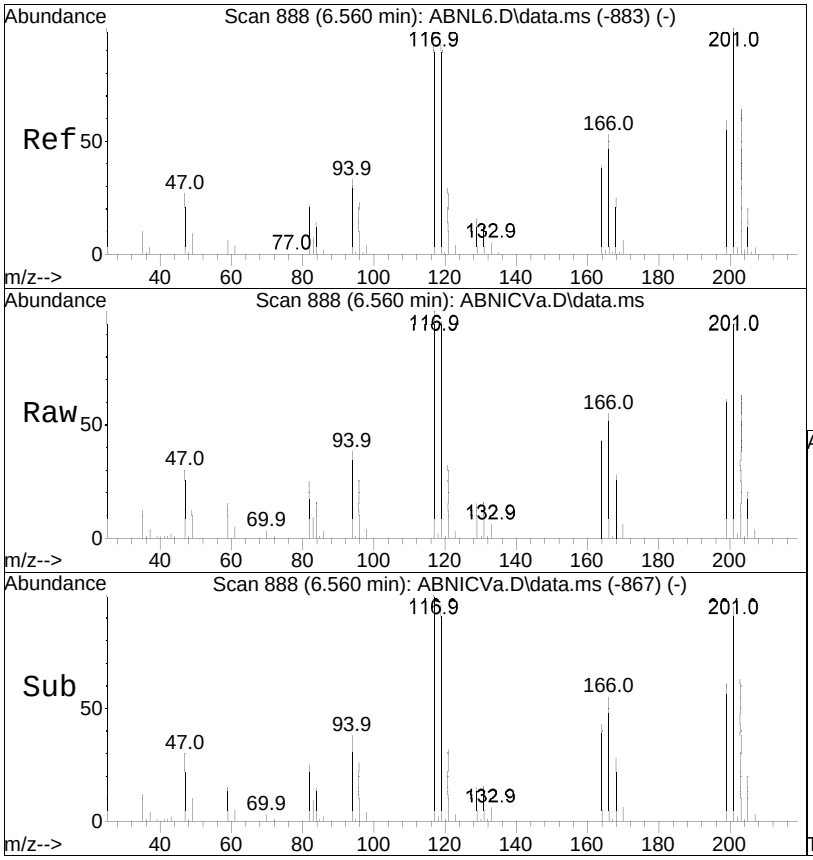


#15
2-Methylphenol
Concen: 5.01 ug/ml
RT: 6.384 min Scan# 858
Delta R.T. 0.001 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:108 Resp: 38137

Ion	Ratio	Lower	Upper
108	100		
107	91.4	70.7	106.1
90	24.5	18.7	28.1

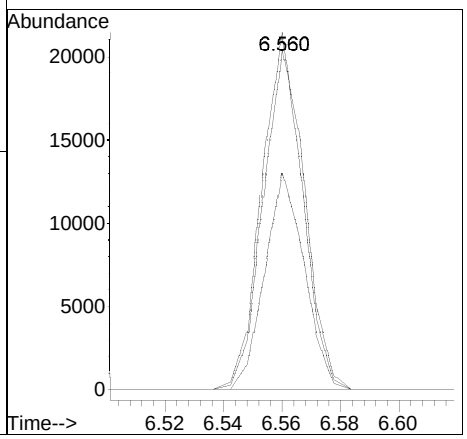


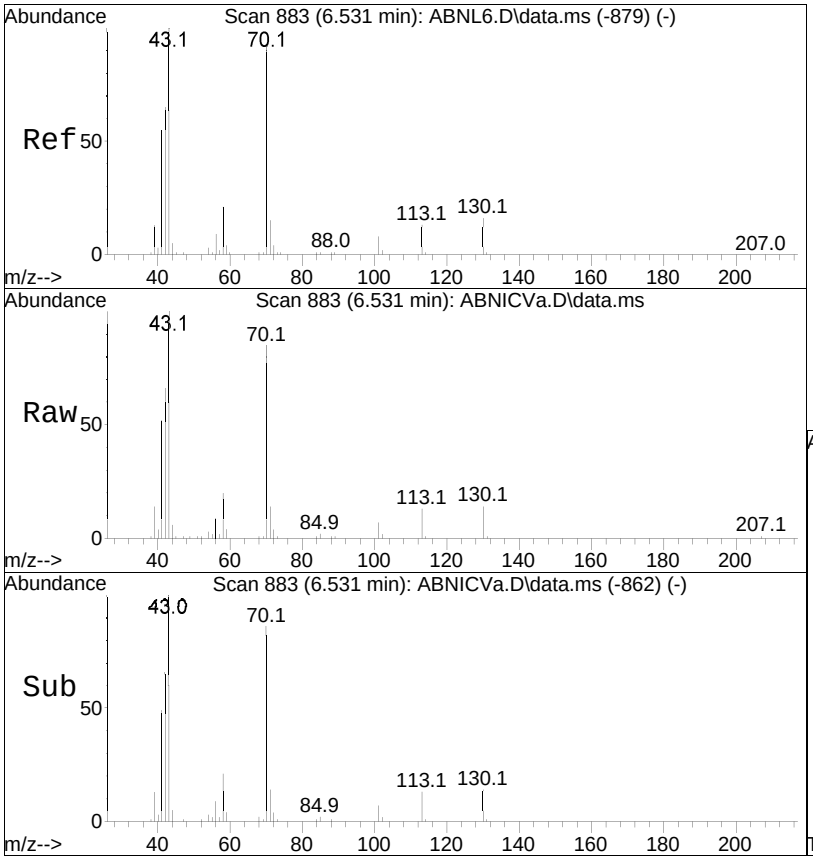


#16
Hexachloroethane
Concen: 4.87 ug/ml
RT: 6.560 min Scan# 888
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:117 Resp: 20472

Ion	Ratio	Lower	Upper
117	100		
201	98.3	58.6	87.8#
199	59.6	36.9	55.3#

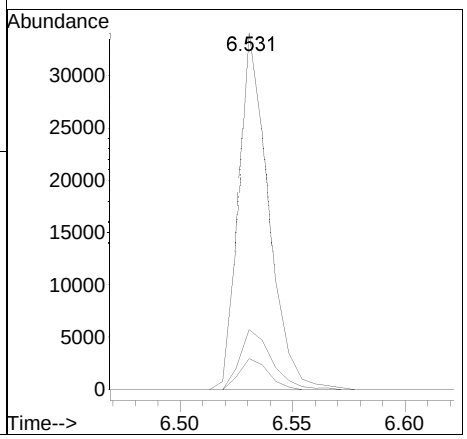


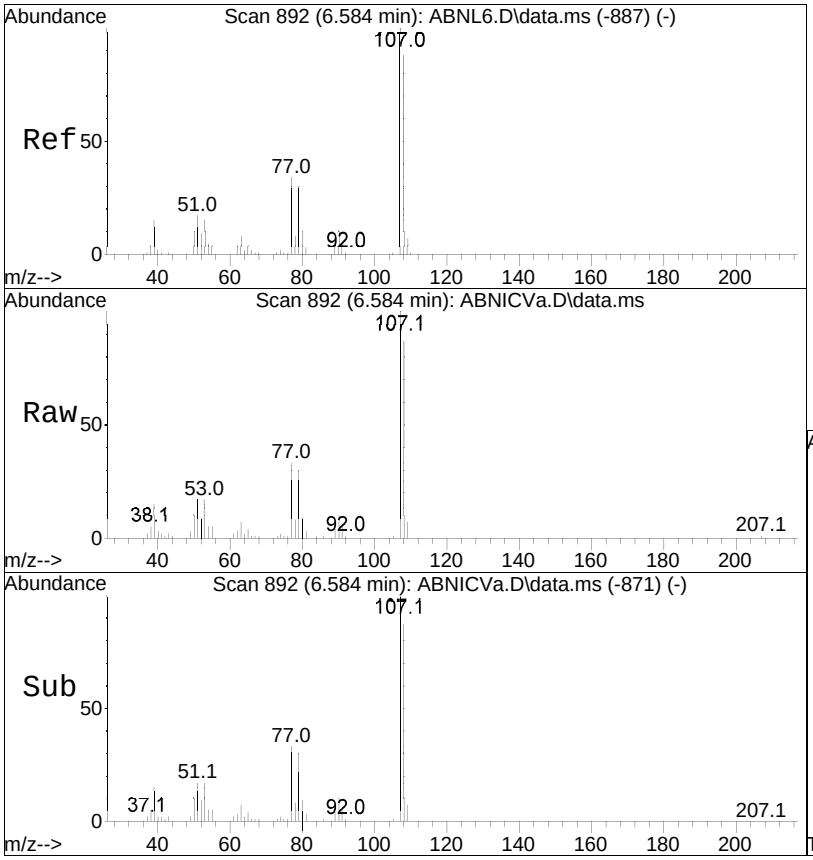


#17
n-Nitrosodi-n-propylamine
Concen: 4.78 ug/ml
RT: 6.531 min Scan# 883
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 70 Resp: 31305

Ion	Ratio	Lower	Upper
70	100		
130	18.0	18.2	27.4#
101	8.5	7.8	11.8

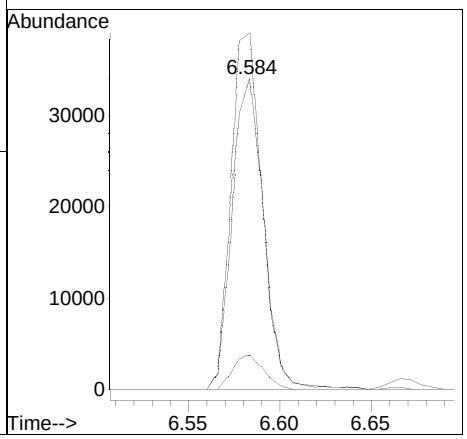


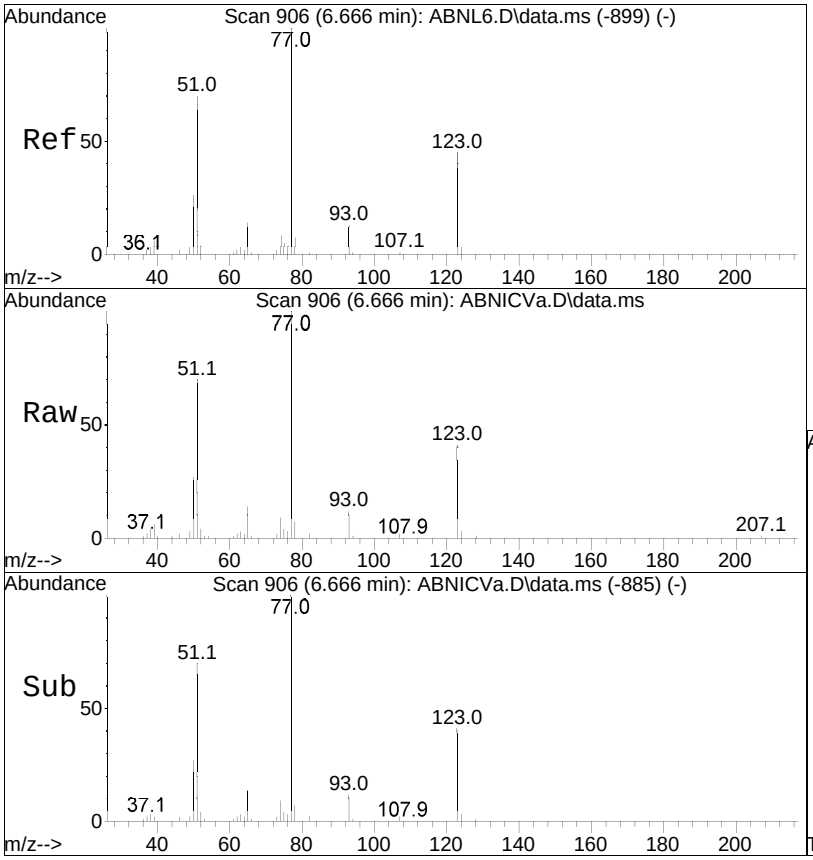


#18
3-Methylphenol/4-Methylphenol
Concen: 4.96 ug/ml
RT: 6.584 min Scan# 892
Delta R.T. 0.001 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:108 Resp: 40595

Ion	Ratio	Lower	Upper
108	100		
107	114.7	88.6	132.8
90	10.9	8.8	13.2

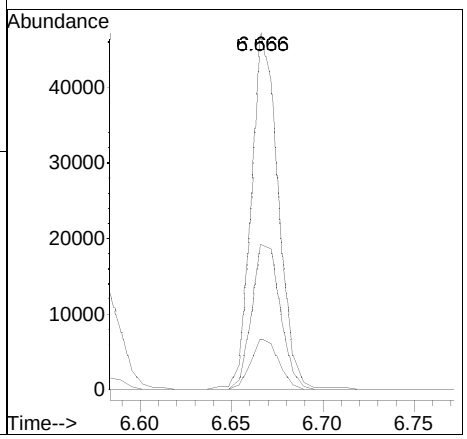


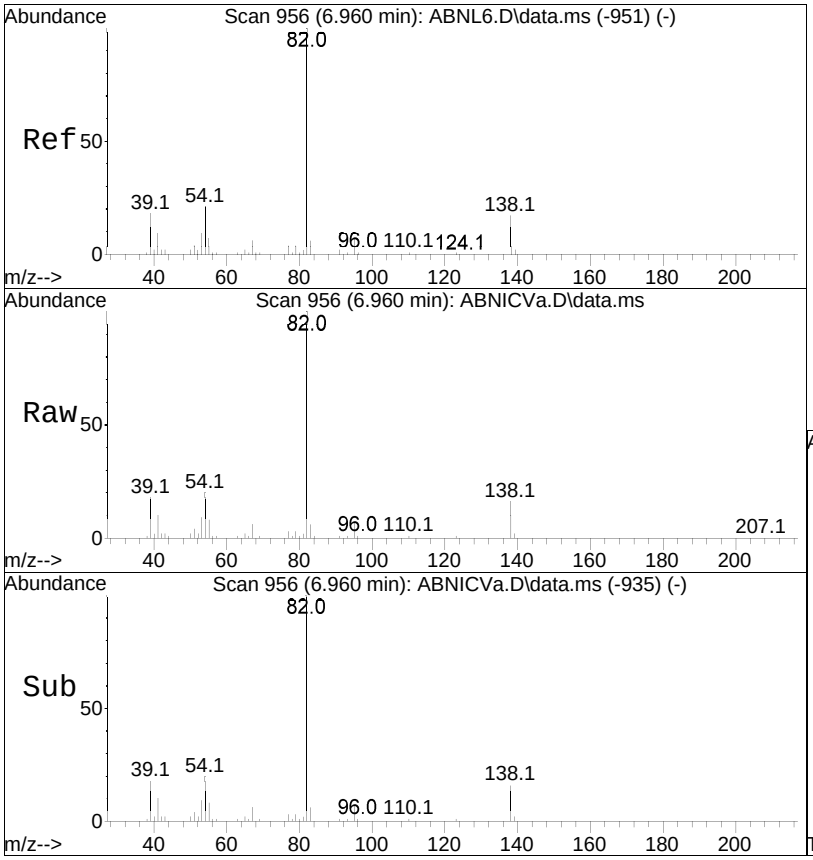


#20
Nitrobenzene
Concen: 4.98 ug/ml
RT: 6.666 min Scan# 906
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 77 Resp: 48297

Ion	Ratio	Lower	Upper
77	100		
123	43.1	36.3	54.5
65	14.7	11.6	17.4

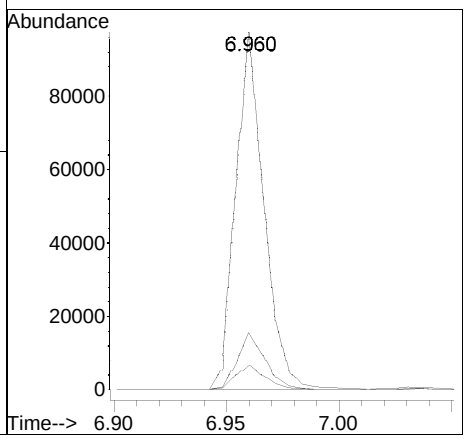


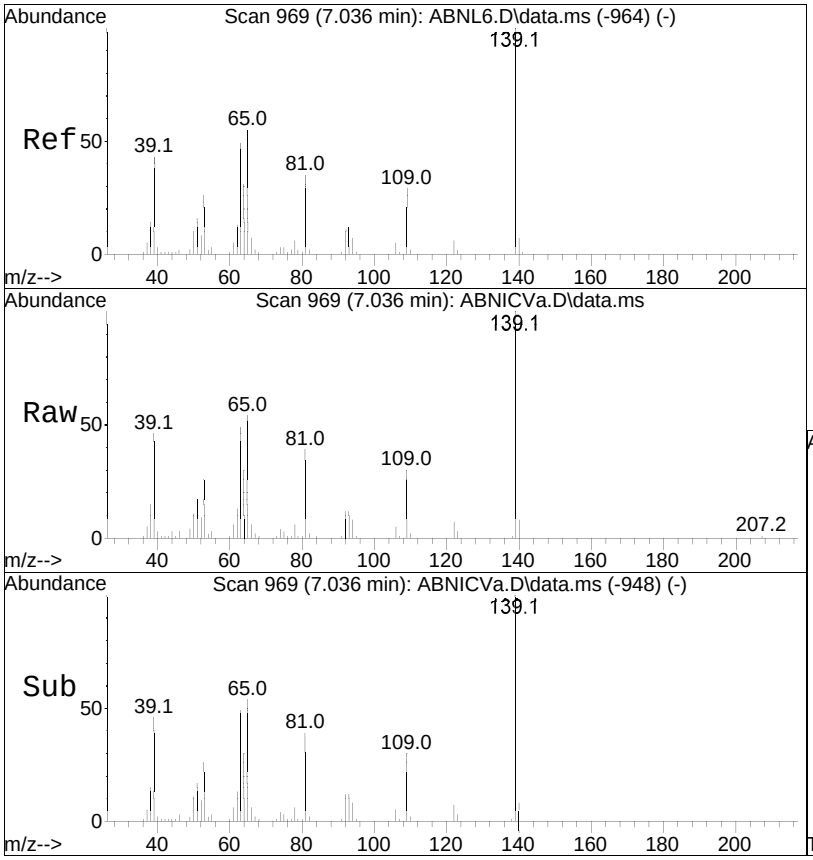


#21
Isophorone
Concen: 4.97 ug/ml
RT: 6.960 min Scan# 956
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 82 Resp: 84533

Ion	Ratio	Lower	Upper
82	100		
138	15.7	14.7	22.1
95	7.2	5.2	7.8

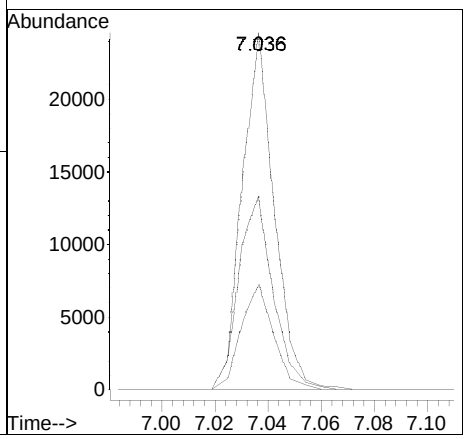


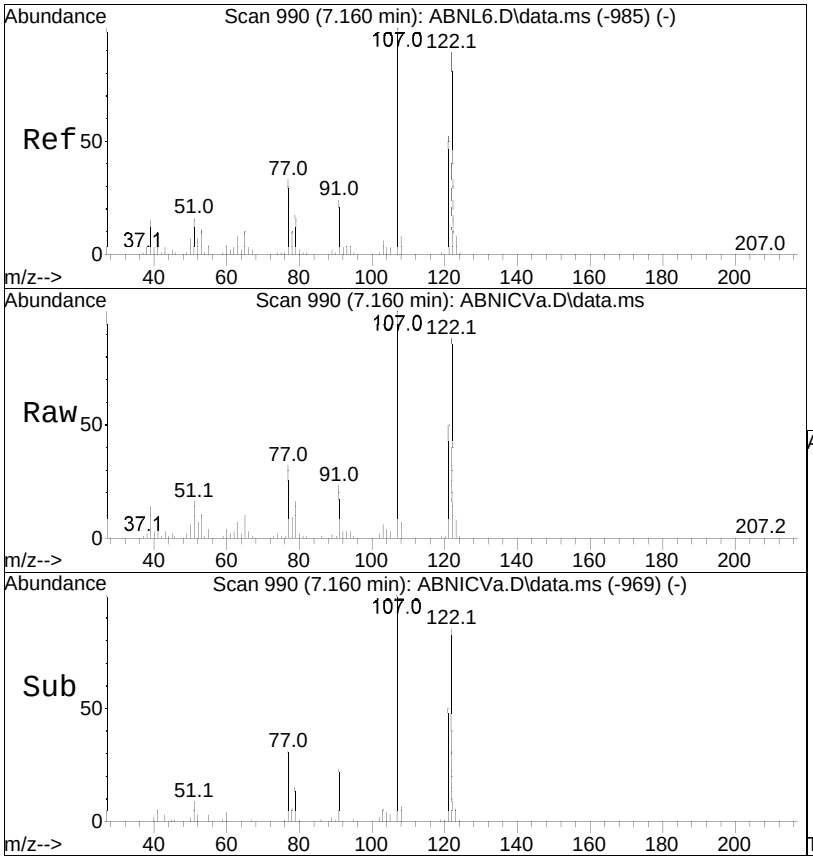


#22
2-Nitrophenol
Concen: 4.57 ug/ml
RT: 7.036 min Scan# 969
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:139 Resp: 20413

Ion	Ratio	Lower	Upper
139	100		
109	30.1	19.4	29.0#
65	58.5	46.1	69.1

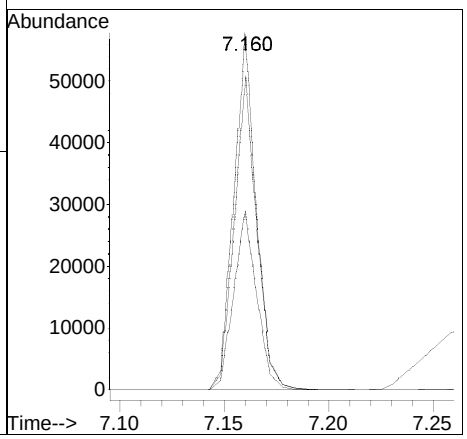


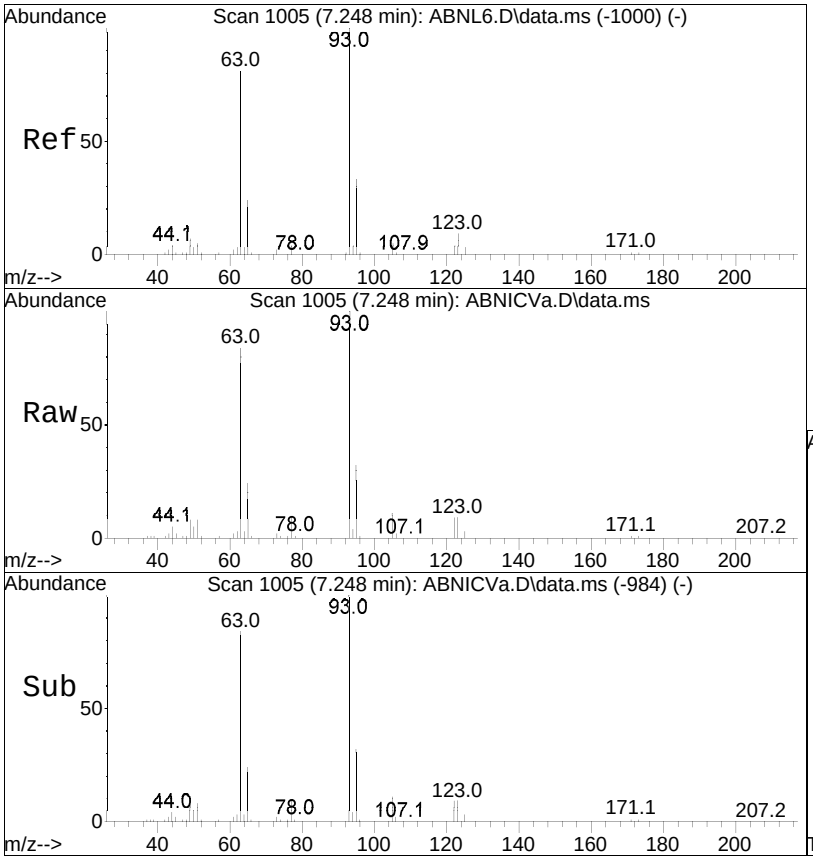


#23
2,4-Dimethylphenol
Concen: 4.85 ug/ml
RT: 7.160 min Scan# 990
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:107 Resp: 42885

Ion	Ratio	Lower	Upper
107	100		
121	51.7	40.0	60.0
122	87.6	70.2	105.4

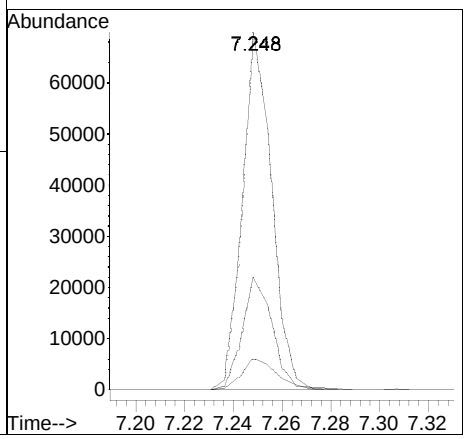


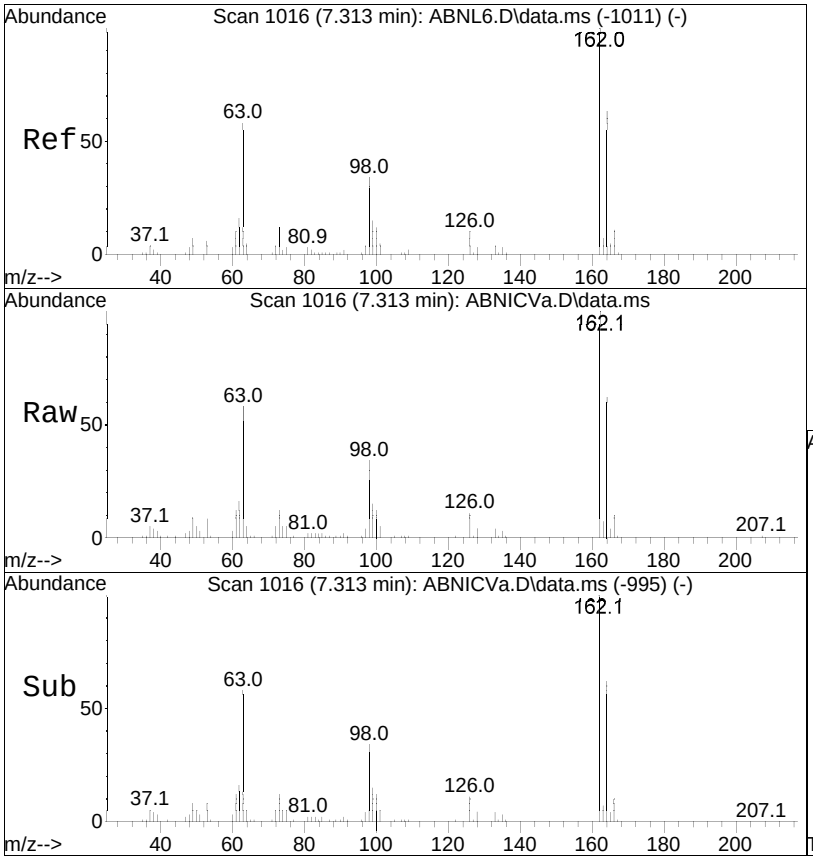


#24
Bis(2-chloroethoxy)methane
Concen: 4.91 ug/ml
RT: 7.248 min Scan# 1005
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 93 Resp: 57725

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.8
123	10.7	10.1	15.1

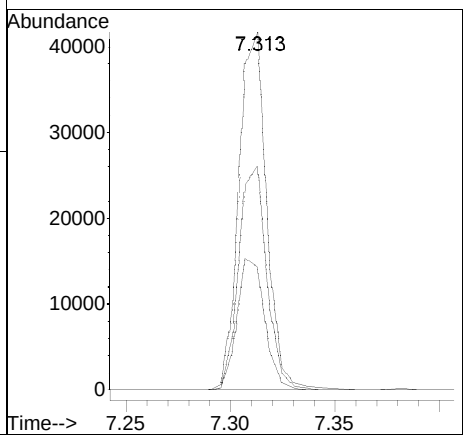


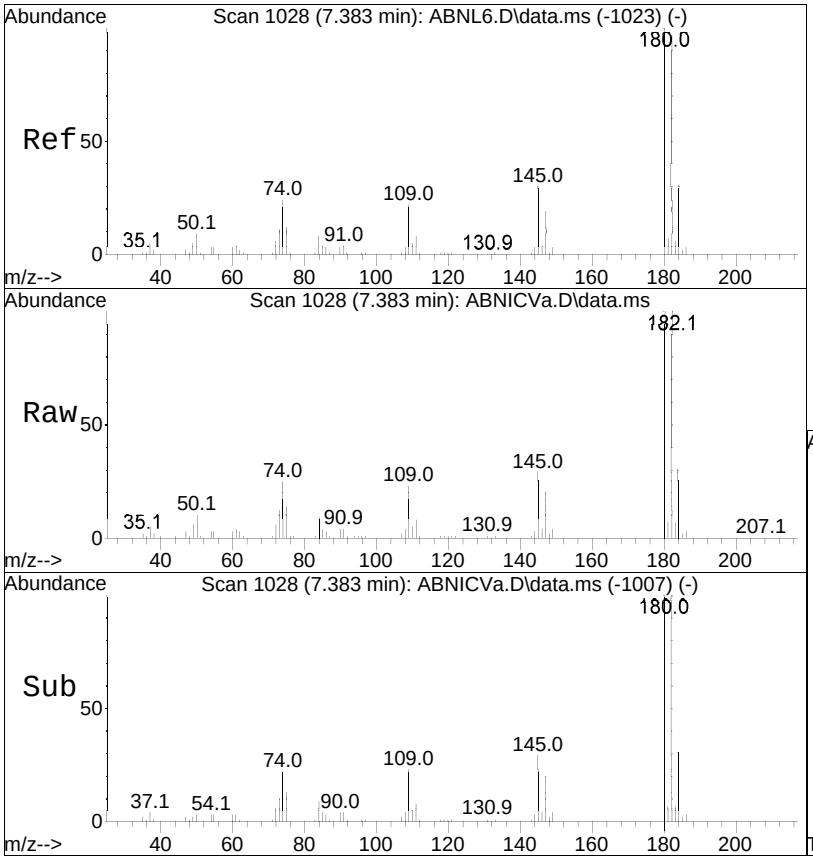


#25
2,4-Dichlorophenol
Concen: 4.83 ug/ml
RT: 7.313 min Scan# 1016
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:162 Resp: 38222

Ion	Ratio	Lower	Upper
162	100		
164	63.0	51.0	76.4
98	36.9	32.2	48.2

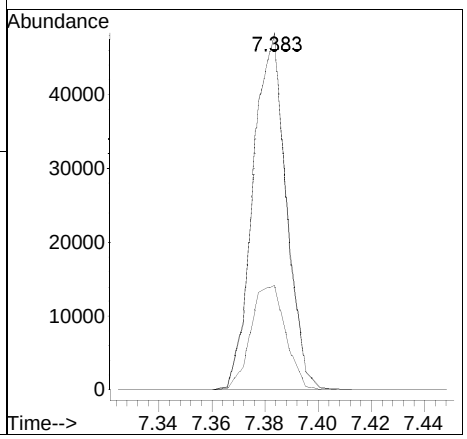


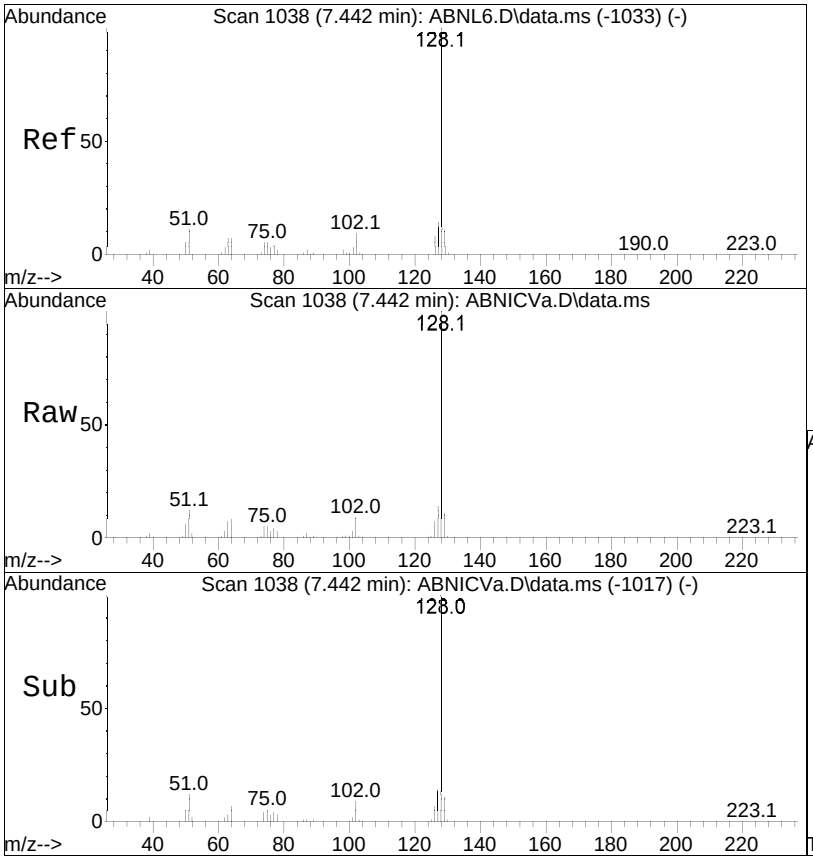


#26
1,2,4-Trichlorobenzene
Concen: 4.51 ug/ml
RT: 7.383 min Scan# 1028
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:180 Resp: 41881

Ion	Ratio	Lower	Upper
180	100		
182	98.9	76.0	114.0
145	30.8	25.7	38.5

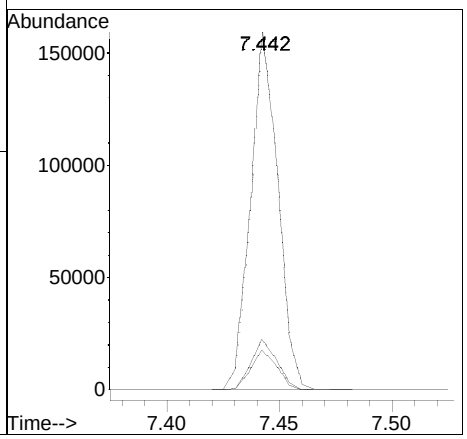


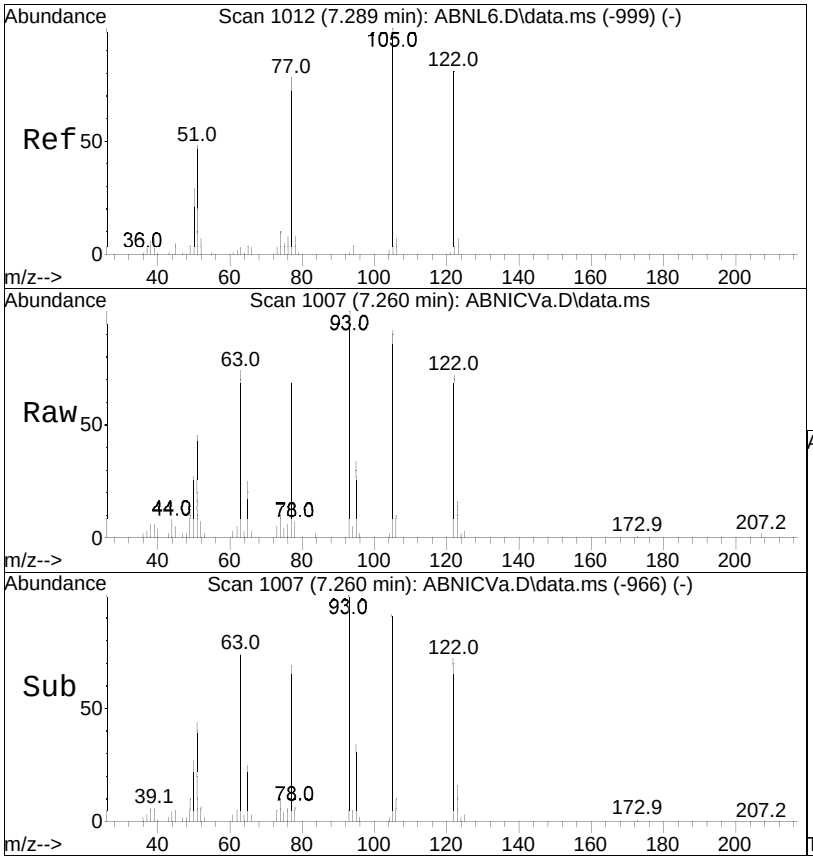


#35
Naphthalene
Concen: 4.95 ug/ml
RT: 7.442 min Scan# 1038
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:128 Resp: 132639

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	13.7	10.3	15.5

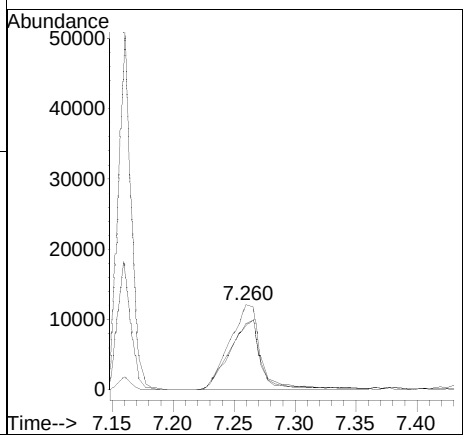


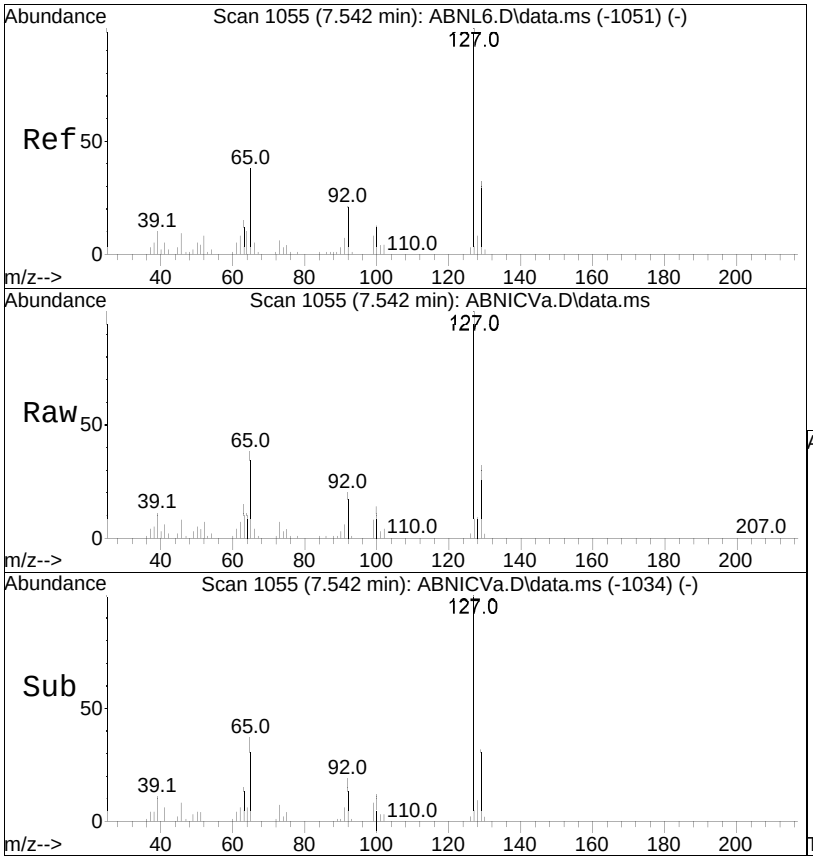


#36
Benzoic Acid
Concen: 4.54 ug/ml
RT: 7.260 min Scan# 1007
Delta R.T. -0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:105 Resp: 22546

Ion	Ratio	Lower	Upper
105	100		
122	82.2	59.9	89.9
77	76.2	60.1	90.1

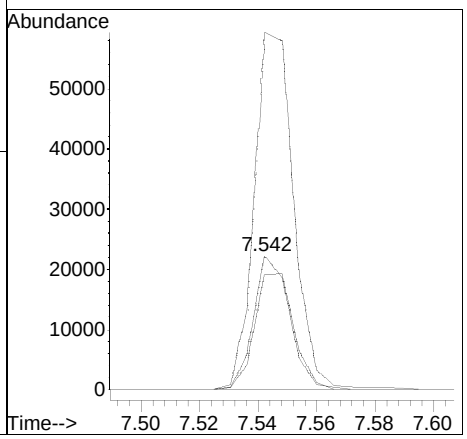


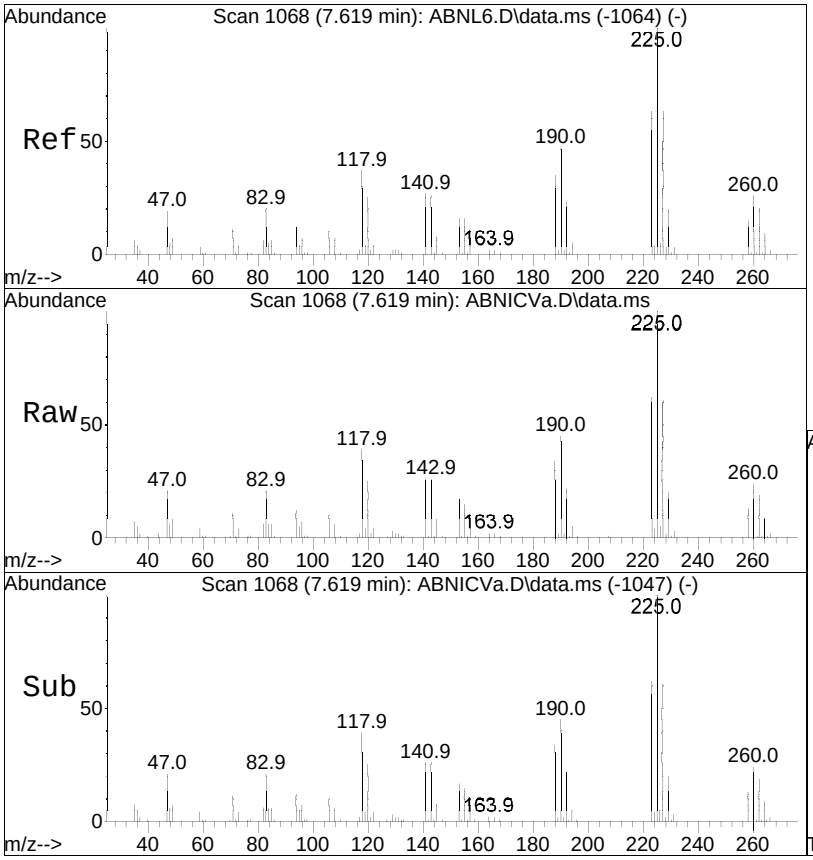


#37
4-Chloroaniline
Concen: 5.16 ug/ml
RT: 7.542 min Scan# 1055
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 65 Resp: 18920

Ion	Ratio	Lower	Upper
65	100		
127	289.3	237.6	356.4
129	94.3	76.3	114.5

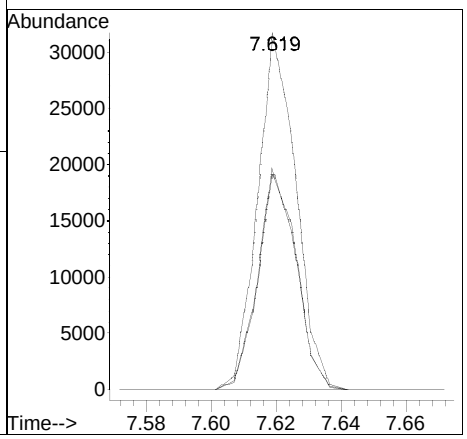


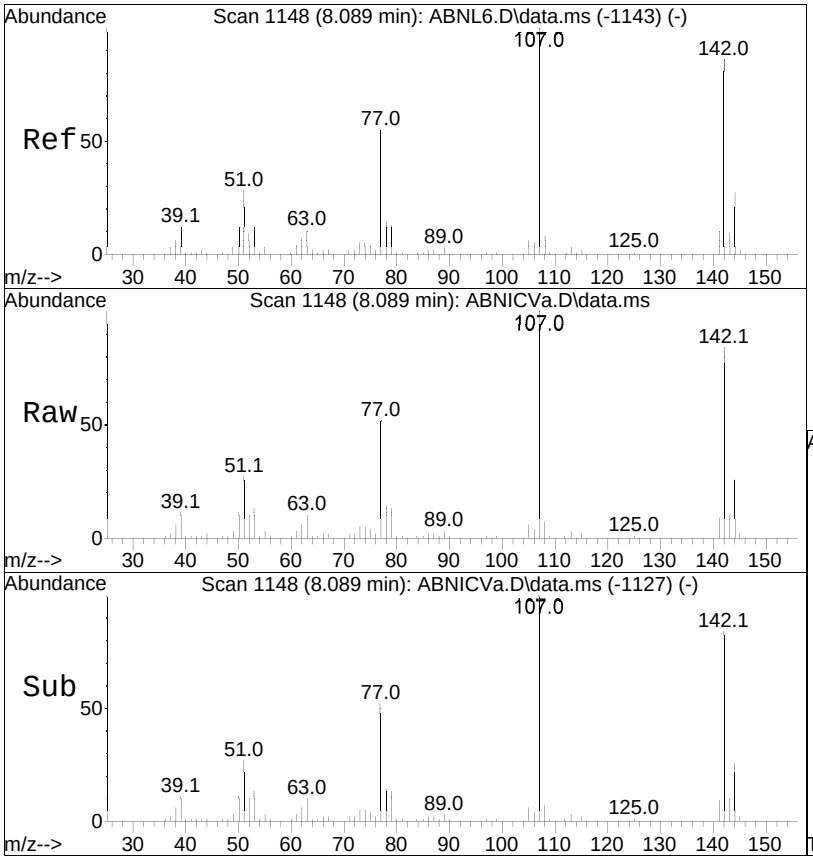


#38
Hexachlorobutadiene
Concen: 4.86 ug/ml
RT: 7.619 min Scan# 1068
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:225 Resp: 25792

Ion	Ratio	Lower	Upper
225	100		
223	61.9	50.3	75.5
227	61.5	52.2	78.2

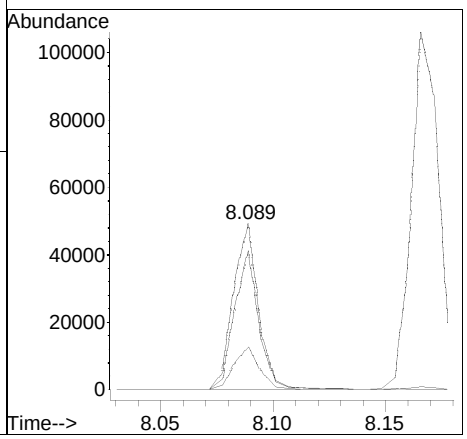


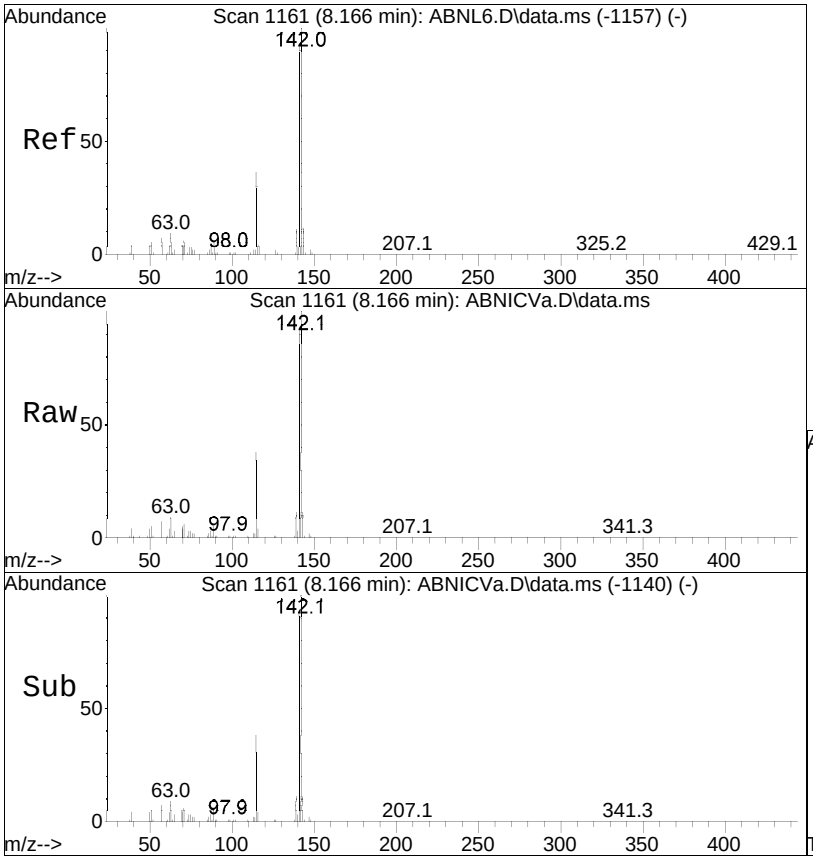


#39
p-Chloro-m-cresol
Concen: 5.14 ug/ml
RT: 8.089 min Scan# 1148
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:107 Resp: 38218

Ion	Ratio	Lower	Upper
107	100		
144	25.9	20.9	31.3
142	80.4	66.1	99.1

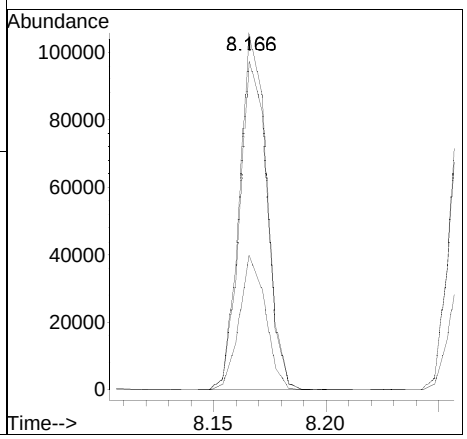


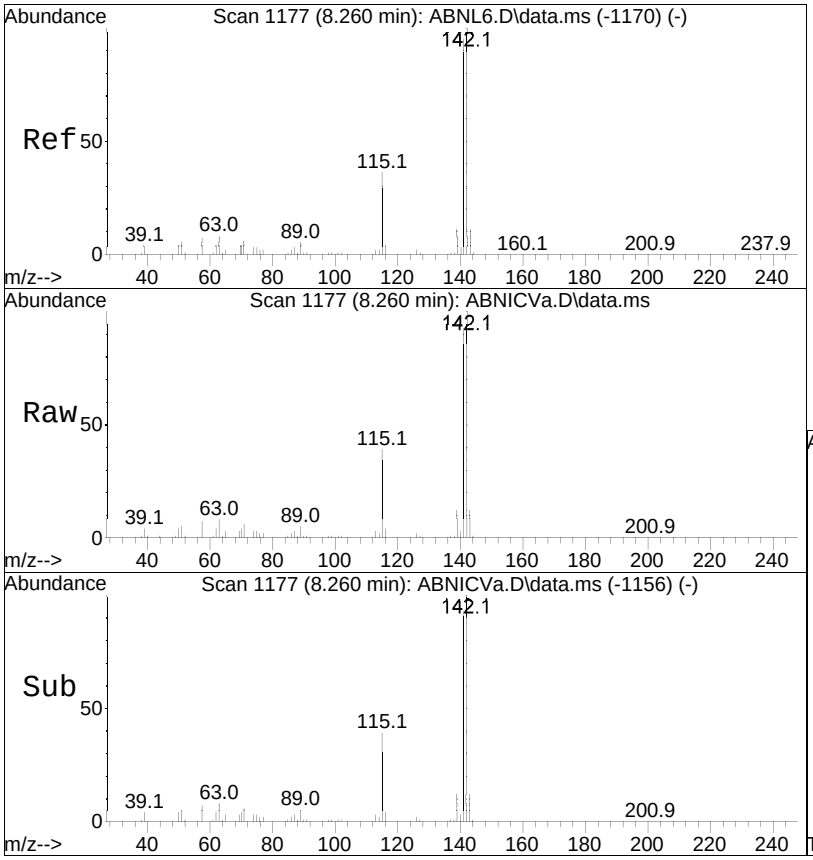


#40
2-Methylnaphthalene
Concen: 5.05 ug/ml
RT: 8.166 min Scan# 1161
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:142 Resp: 89859

Ion	Ratio	Lower	Upper
142	100		
141	92.6	69.6	104.4
115	36.2	26.6	40.0

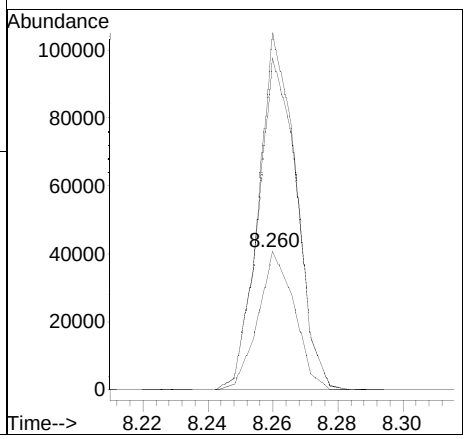


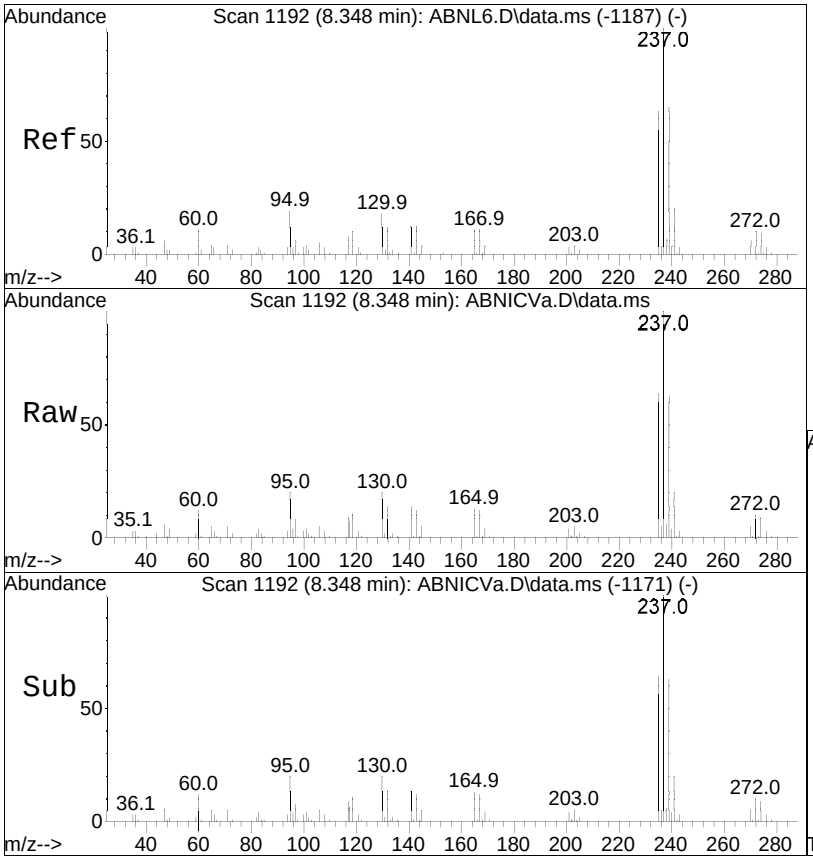


#41
1-Methylnaphthalene
Concen: 5.06 ug/ml
RT: 8.260 min Scan# 1177
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:115 Resp: 31880

Ion	Ratio	Lower	Upper
115	100		
141	253.5	207.8	311.6
142	264.6	226.8	340.2

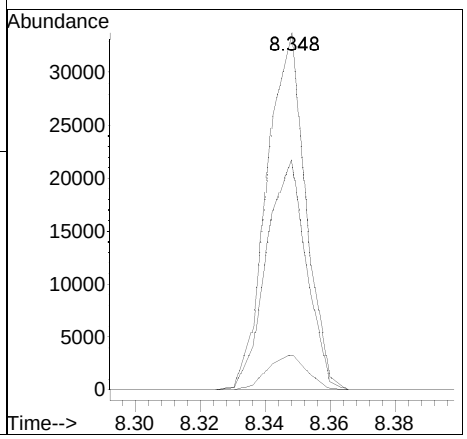


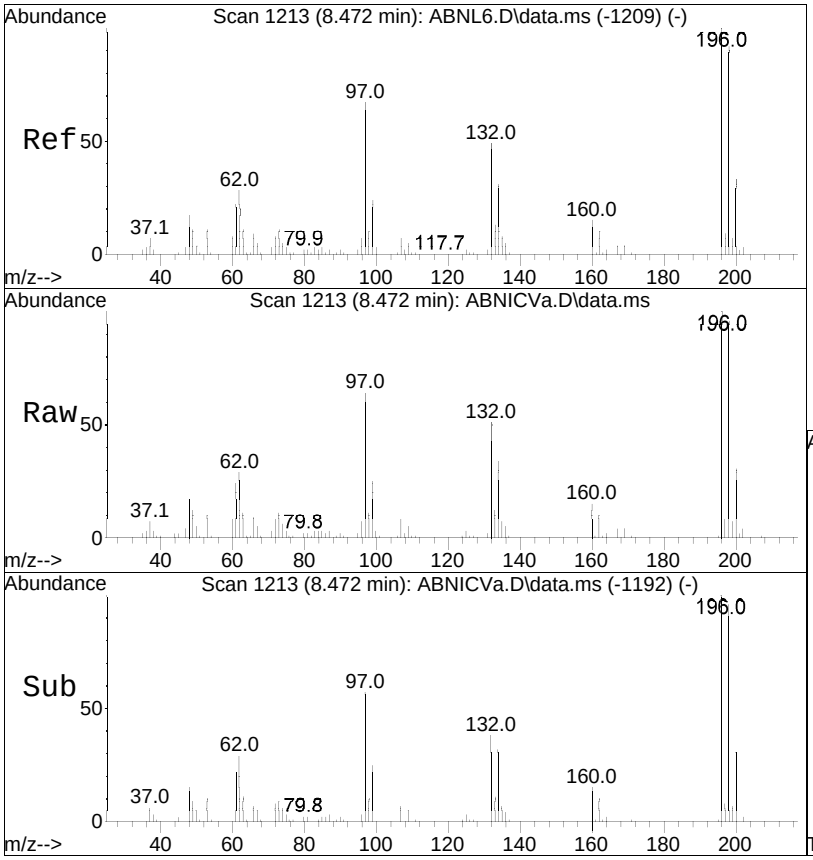


#42
Hexachlorocyclopentadiene
Concen: 4.70 ug/ml
RT: 8.348 min Scan# 1192
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:237 Resp: 27938

Ion	Ratio	Lower	Upper
237	100		
235	66.6	49.7	74.5
272	10.1	9.8	14.6

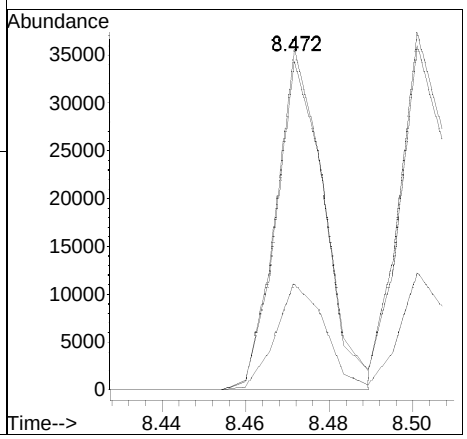


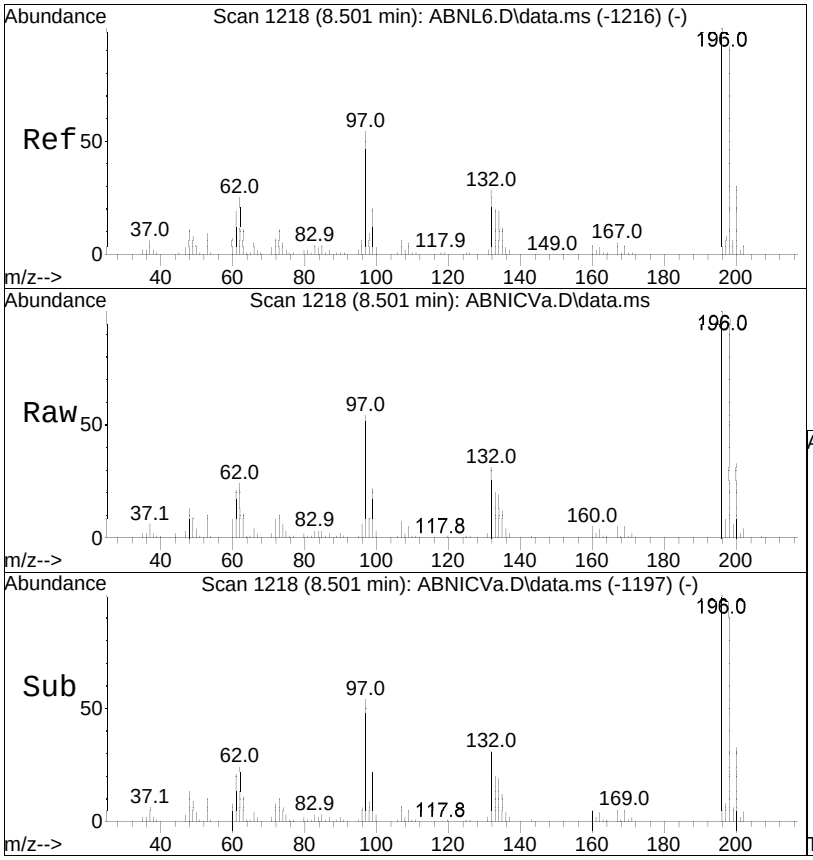


#43
2,4,6-Trichlorophenol
Concen: 5.10 ug/ml
RT: 8.472 min Scan# 1213
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:196 Resp: 28615

Ion	Ratio	Lower	Upper
196	100		
198	96.5	77.5	116.3
200	32.3	23.8	35.6

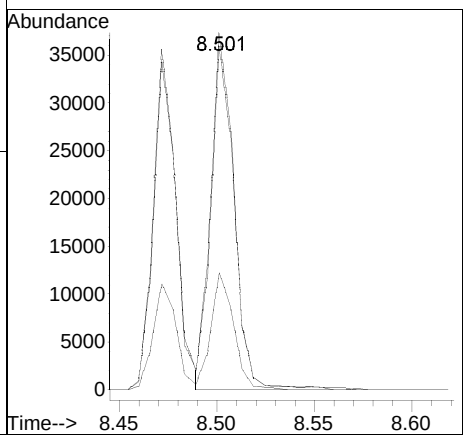


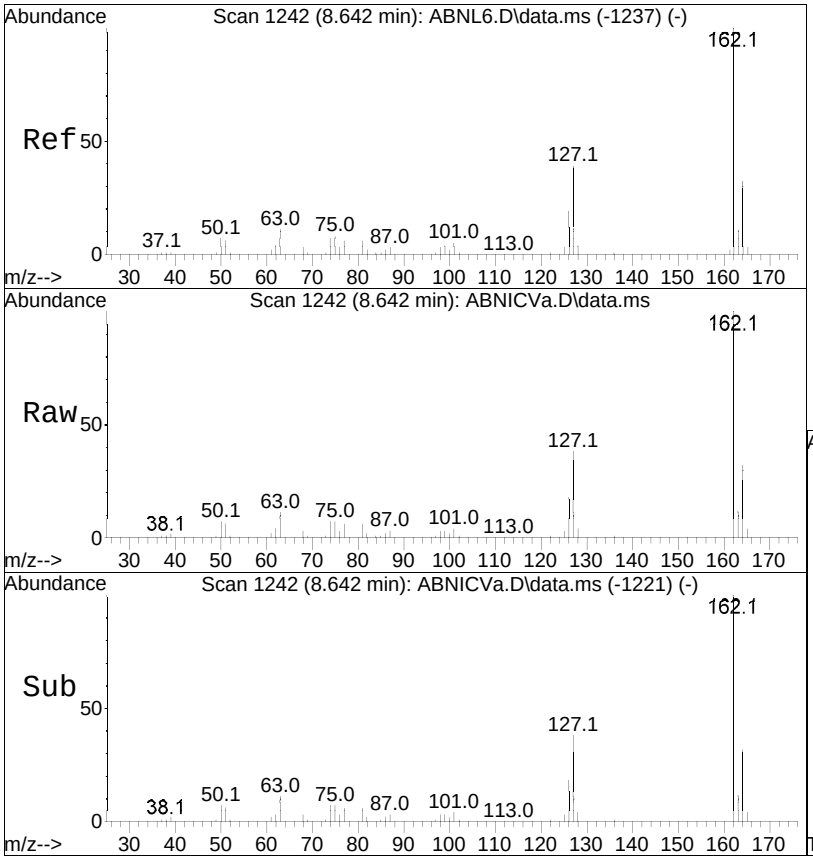


#44
2,4,5-Trichlorophenol
Concen: 5.13 ug/ml
RT: 8.501 min Scan# 1218
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:196 Resp: 31225

Ion	Ratio	Lower	Upper
196	100		
200	31.5	25.4	38.0
198	95.3	78.0	117.0

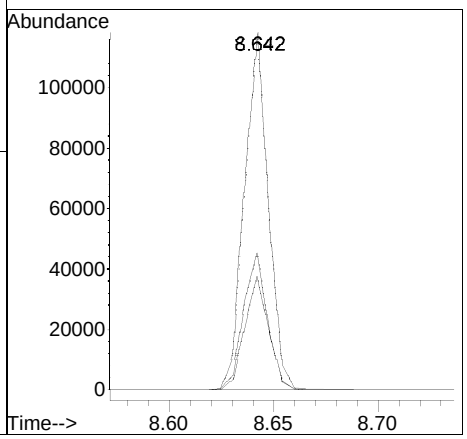


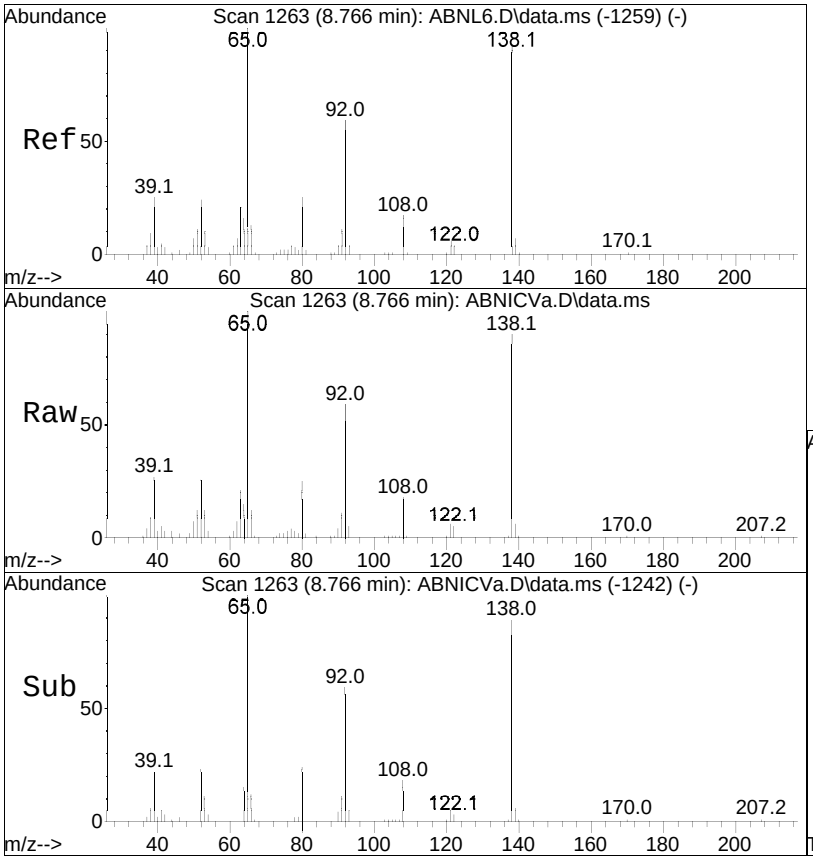


#46
2-Chloronaphthalene
Concen: 5.06 ug/ml
RT: 8.642 min Scan# 1242
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:162 Resp: 92571

Ion	Ratio	Lower	Upper
162	100		
127	38.6	32.2	48.4
164	31.9	25.7	38.5

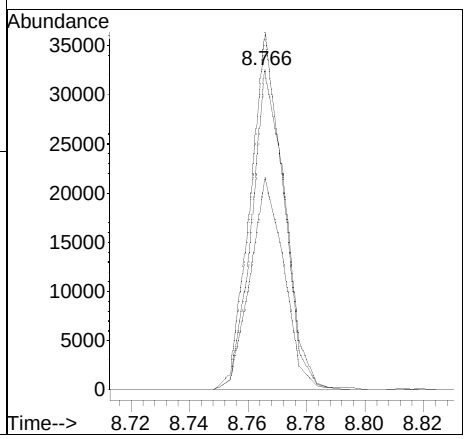


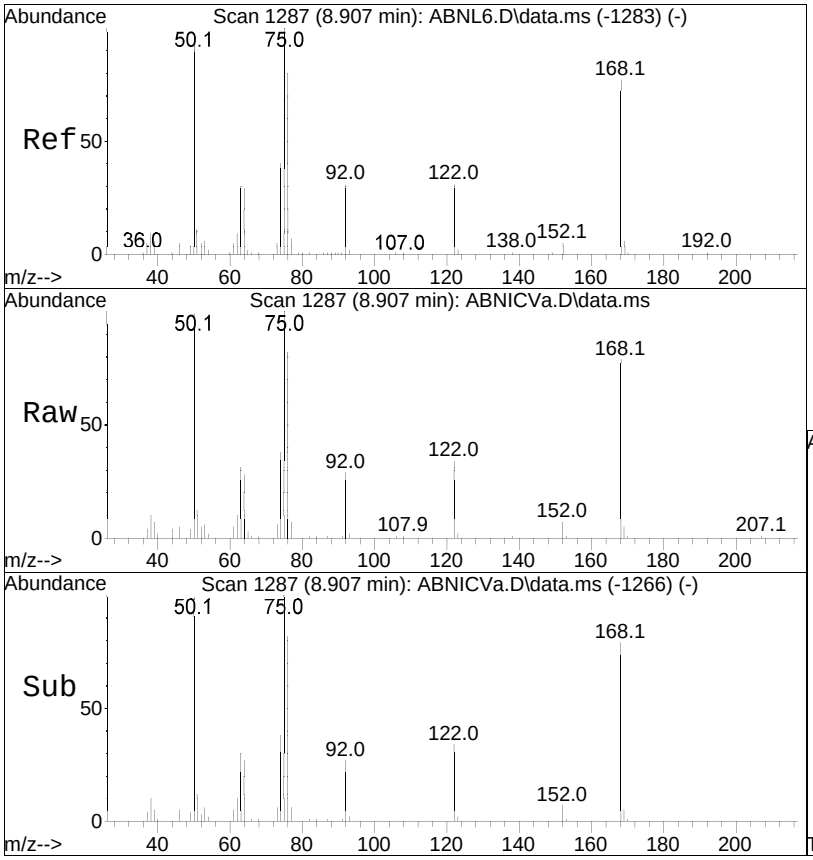


#47
2-Nitroaniline
Concen: 4.73 ug/ml
RT: 8.766 min Scan# 1263
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:138 Resp: 25874

Ion	Ratio	Lower	Upper
138	100		
92	66.8	53.5	80.3
65	109.0	86.3	129.5

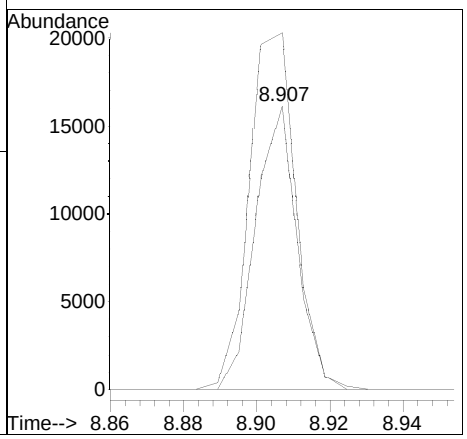


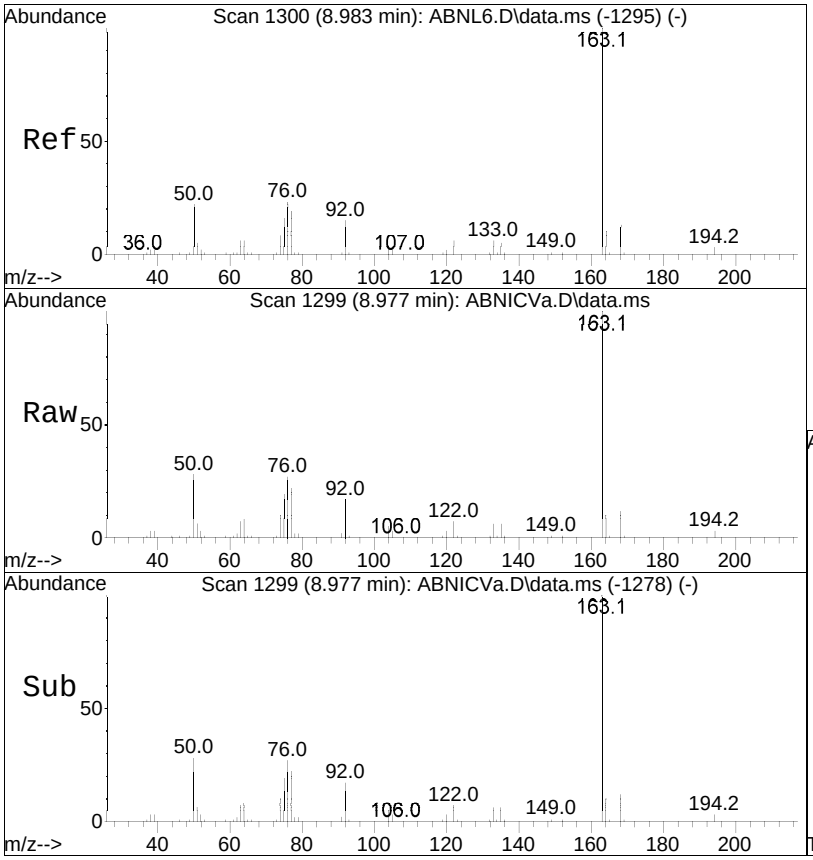


#48
1,4-Dinitrobenzene
Concen: 4.82 ug/ml
RT: 8.907 min Scan# 1287
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:168 Resp: 12735

Ion	Ratio	Lower	Upper
168	100		
75	142.2	121.8	182.8

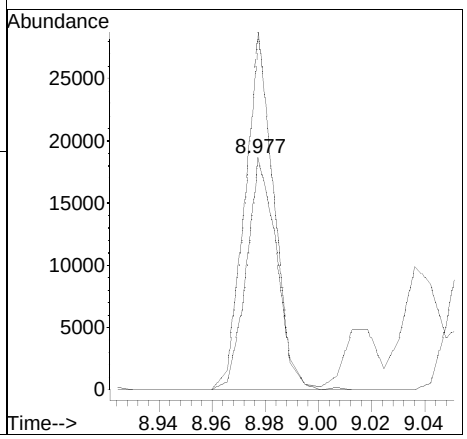


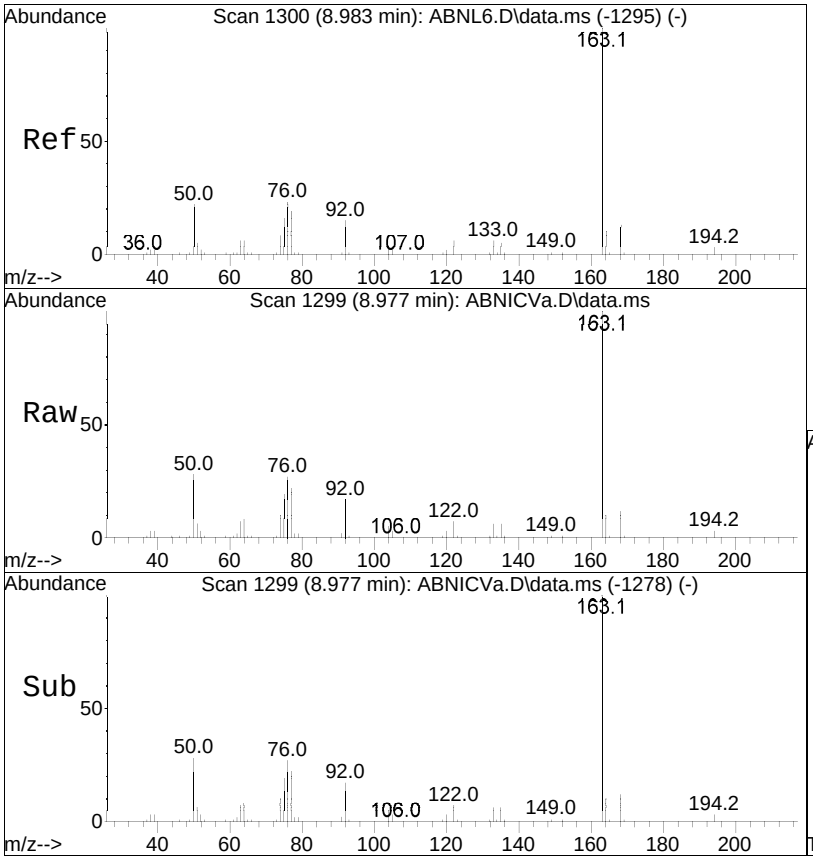


#49
1,3-Dinitrobenzene
Concen: 4.88 ug/ml
RT: 8.977 min Scan# 1299
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:168 Resp: 14723

Ion	Ratio	Lower	Upper
168	100		
75	146.3	22.7	34.1#

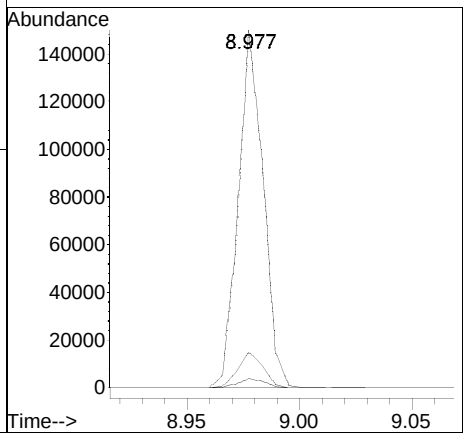


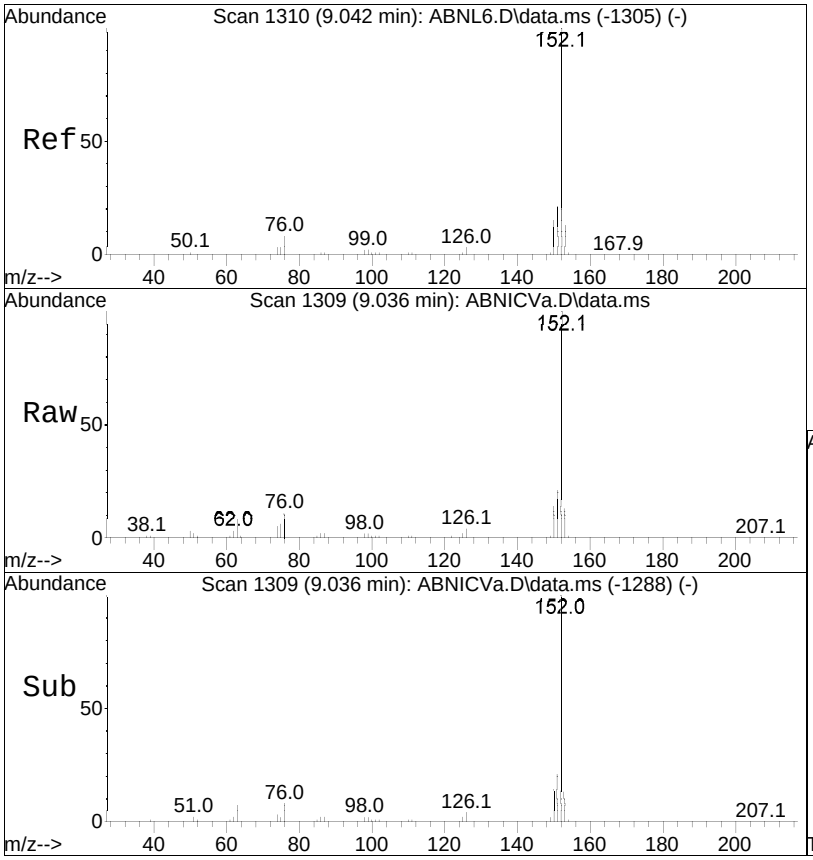


#50
Dimethyl phthalate
Concen: 5.24 ug/ml
RT: 8.977 min Scan# 1299
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:163 Resp: 113864

Ion	Ratio	Lower	Upper
163	100		
194	2.8	3.5	5.3#
164	10.1	7.9	11.9

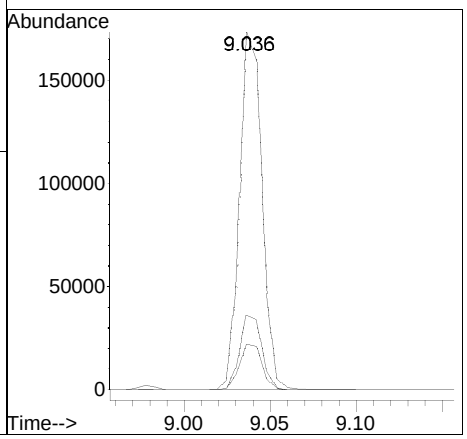


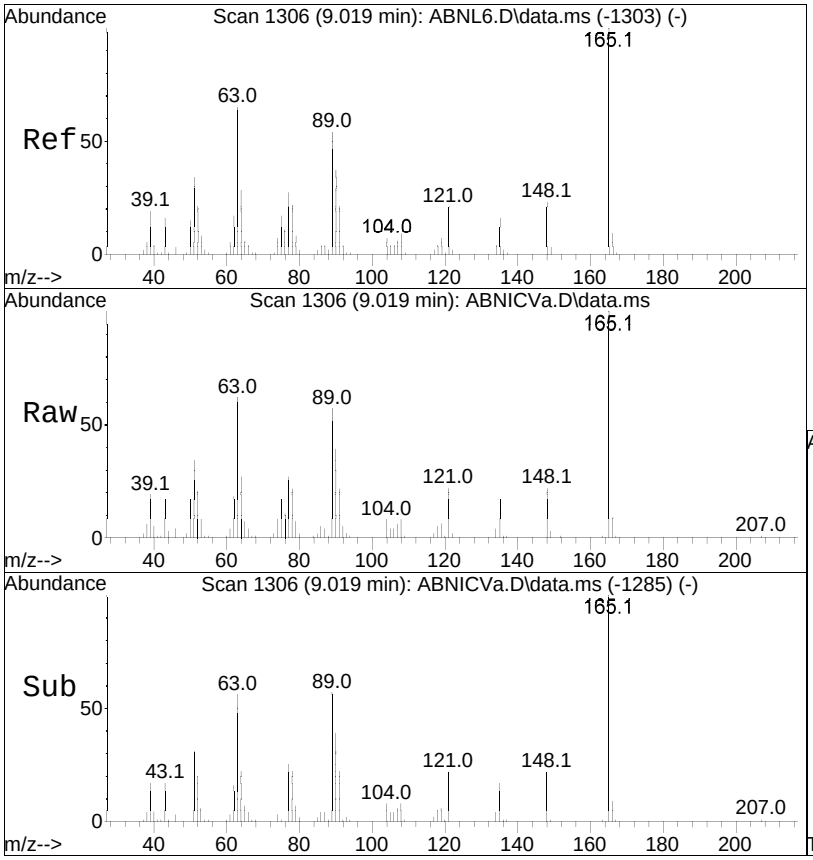


#51
Acenaphthylene
Concen: 5.25 ug/ml
RT: 9.036 min Scan# 1309
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:152 Resp: 155024

Ion	Ratio	Lower	Upper
152	100		
151	20.8	15.8	23.6
153	13.1	10.5	15.7

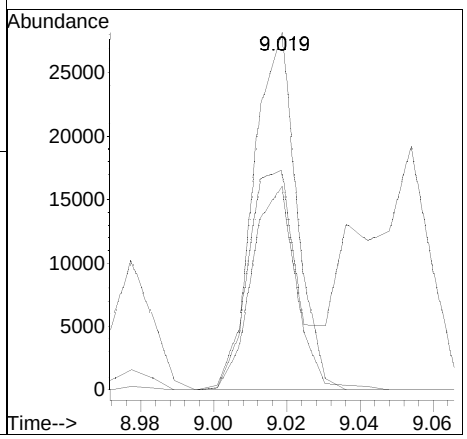


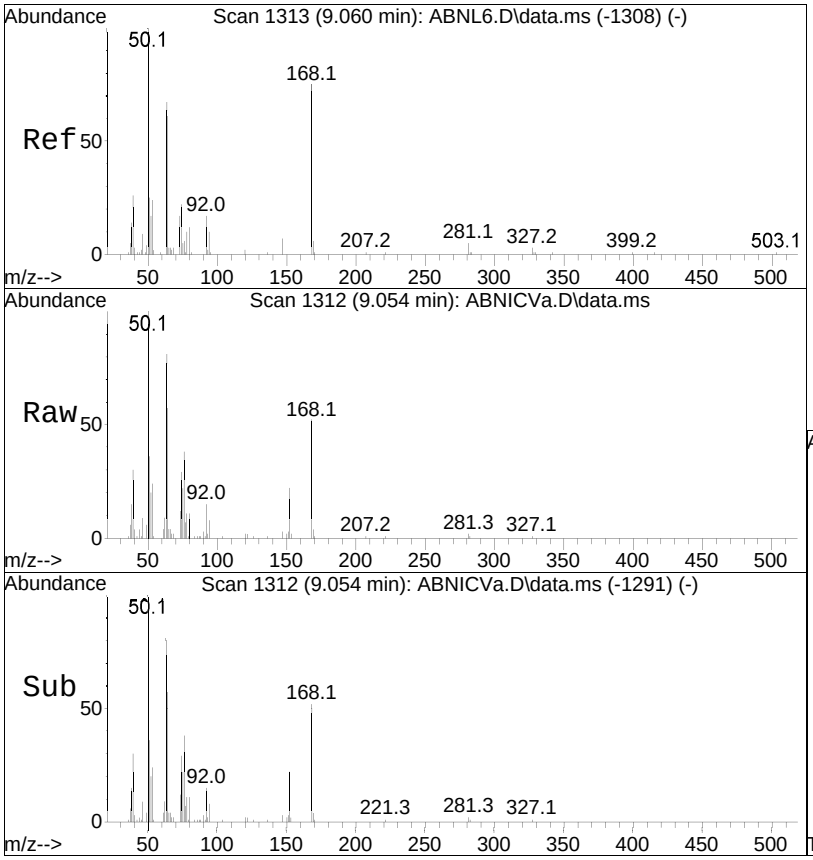


#52
2,6-Dinitrotoluene
Concen: 5.15 ug/ml
RT: 9.019 min Scan# 1306
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:165 Resp: 22950

Ion	Ratio	Lower	Upper
165	100		
89	59.4	54.2	81.2
63	75.9	64.2	96.2

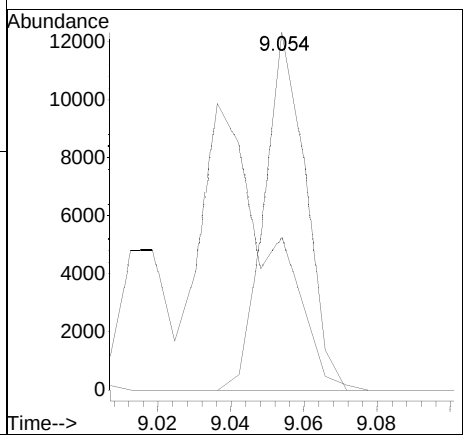


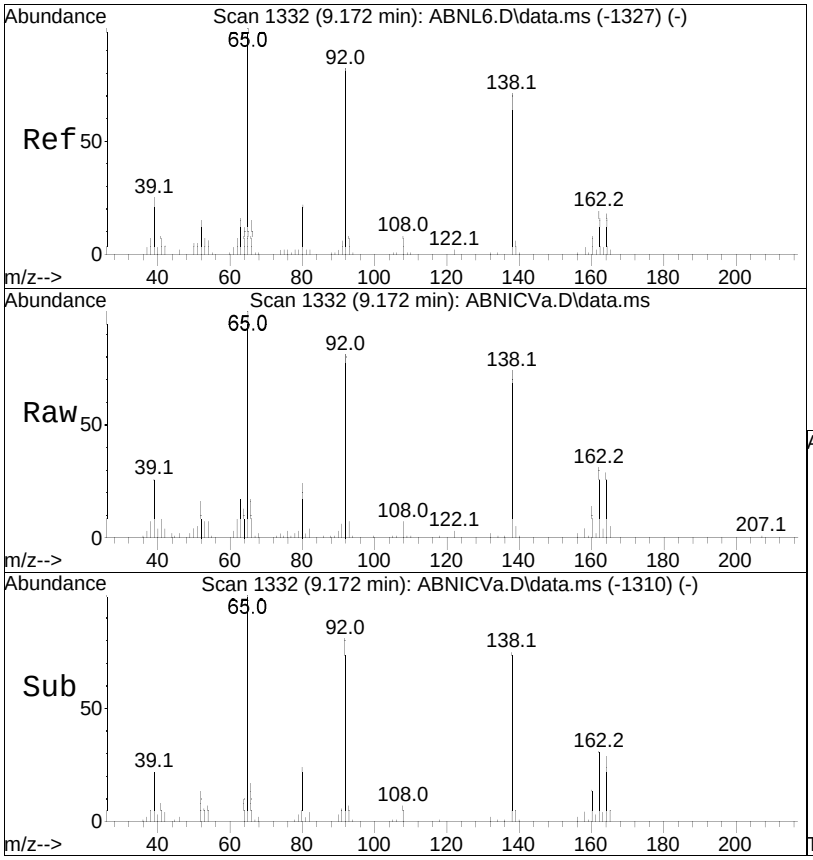


#53
1,2-Dinitrobenzene
Concen: 4.95 ug/ml
RT: 9.054 min Scan# 1312
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:168 Resp: 9681

Ion	Ratio	Lower	Upper
168	100		
75	129.4	30.9	46.3#

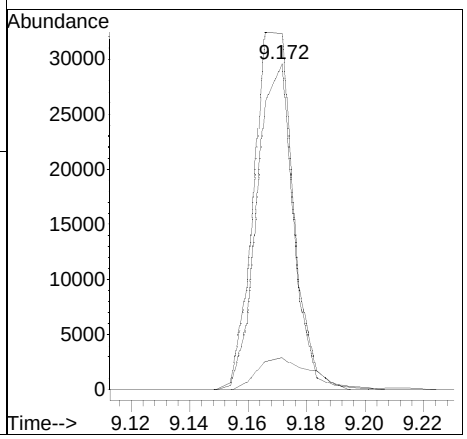


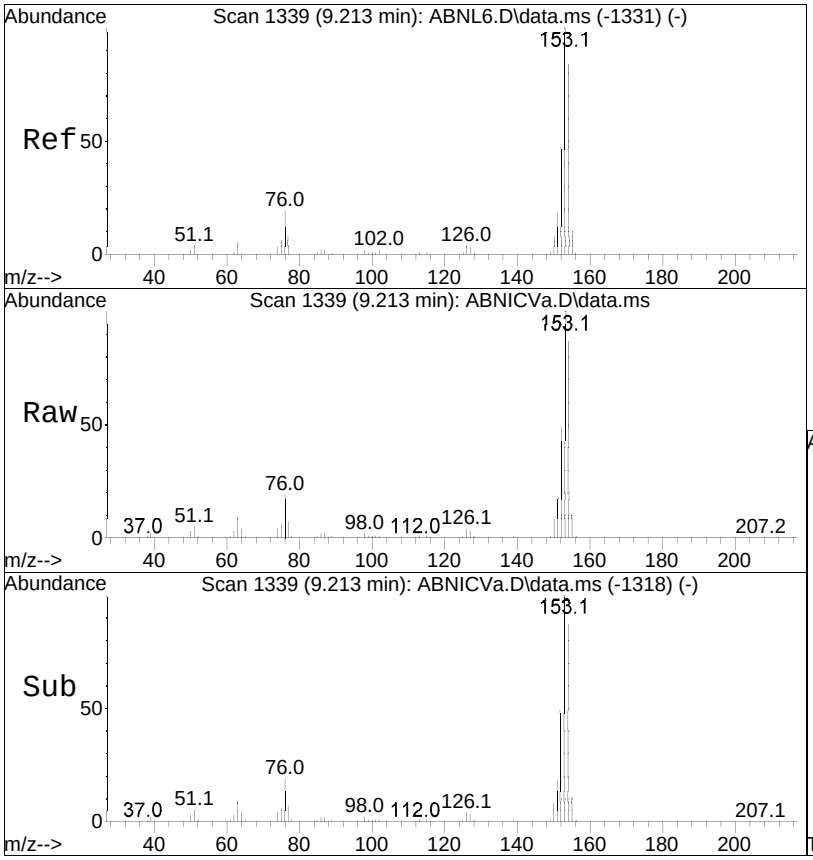


#63
3-Nitroaniline
Concen: 5.12 ug/ml
RT: 9.172 min Scan# 1332
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:138 Resp: 25471

Ion	Ratio	Lower	Upper
138	100		
92	119.7	93.4	140.2
108	14.4	9.5	14.3#

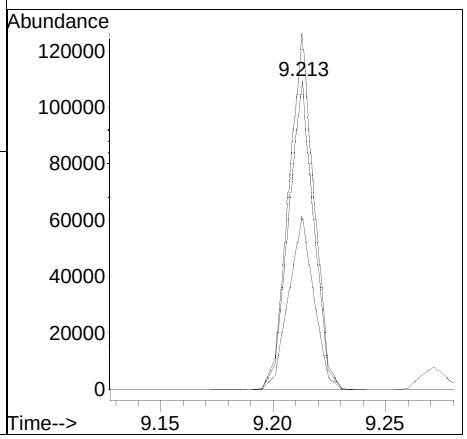


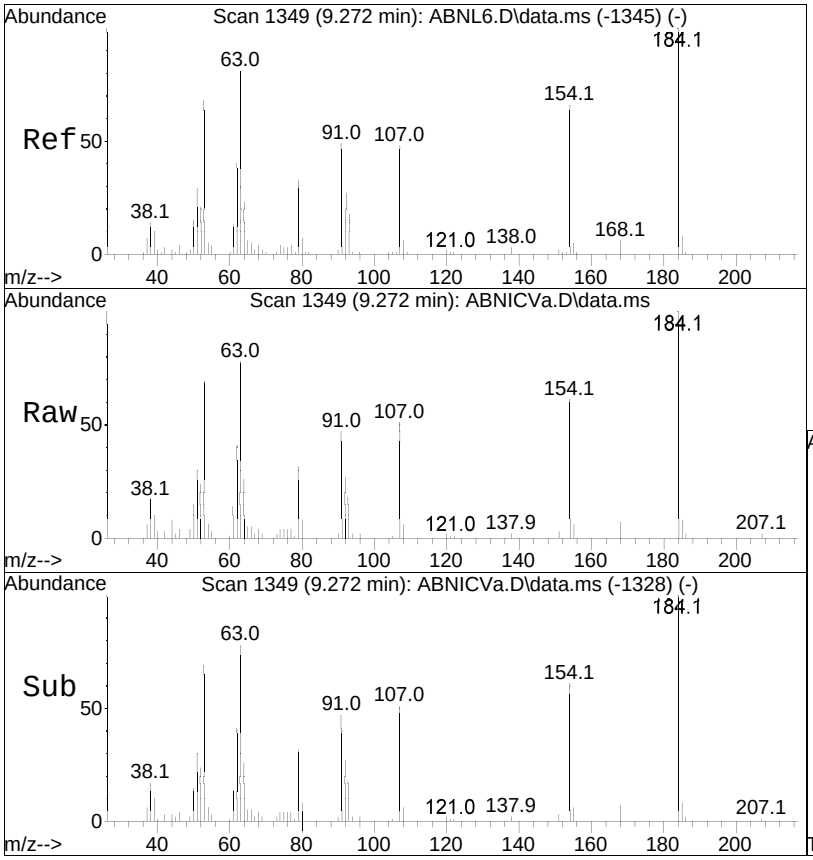


#64
Acenaphthene
Concen: 4.70 ug/ml
RT: 9.213 min Scan# 1339
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:154 Resp: 85213

Ion	Ratio	Lower	Upper
154	100		
153	116.0	85.3	127.9
152	56.3	41.4	62.0

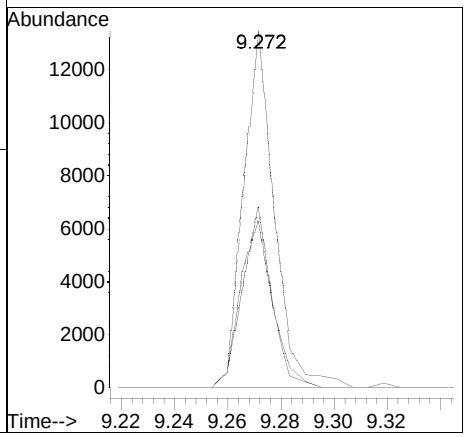


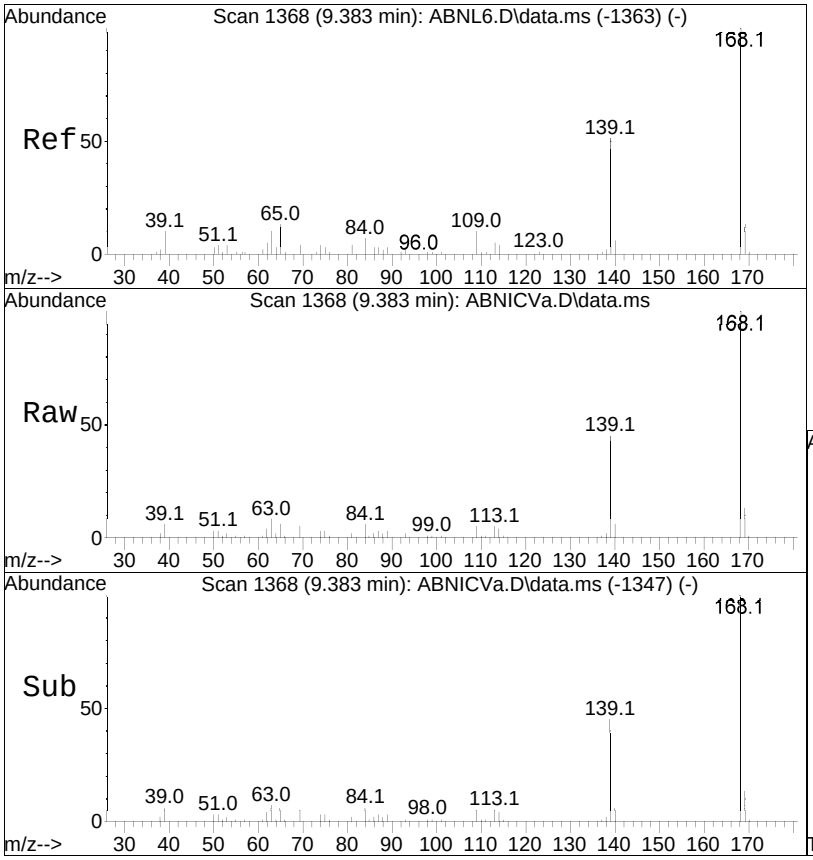


#65
2,4-Dinitrophenol
Concen: 4.45 ug/ml
RT: 9.272 min Scan# 1349
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:184 Resp: 10810

Ion	Ratio	Lower	Upper
184	100		
107	47.9	37.7	56.5
91	49.2	46.3	69.5

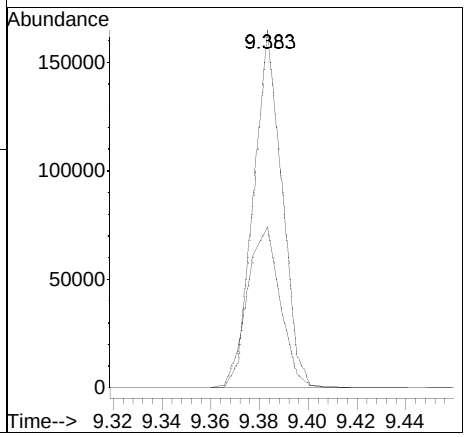


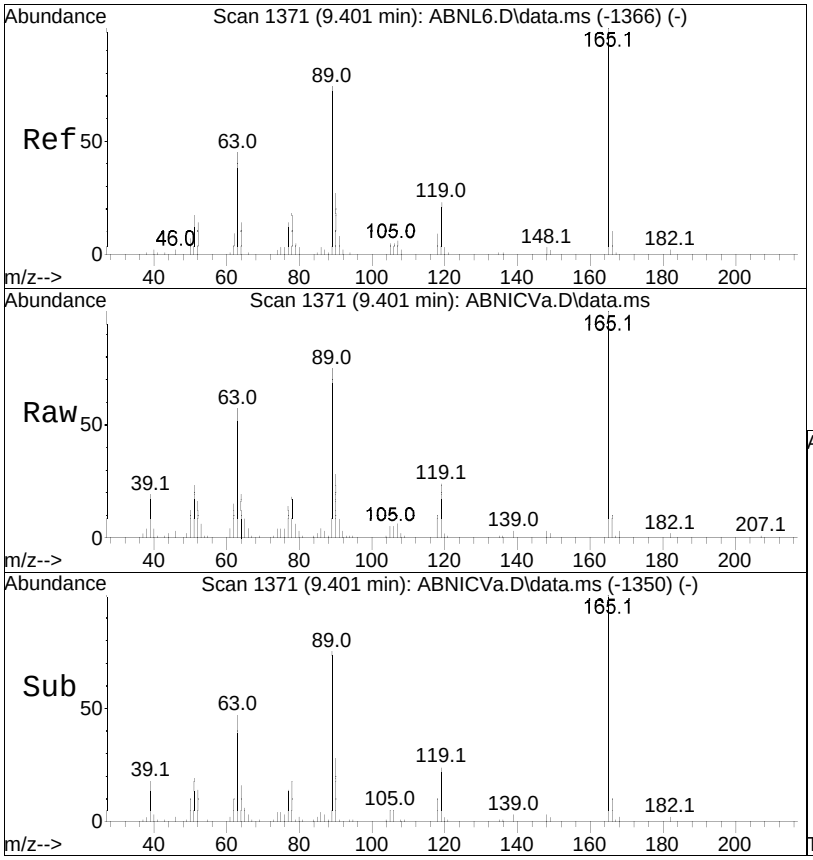


#66
Dibenzofuran
Concen: 4.83 ug/ml
RT: 9.383 min Scan# 1368
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:168 Resp: 131433

Ion	Ratio	Lower	Upper
168	100		
139	53.5	31.4	47.2#

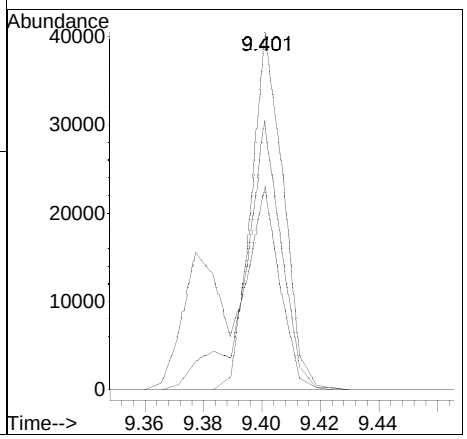


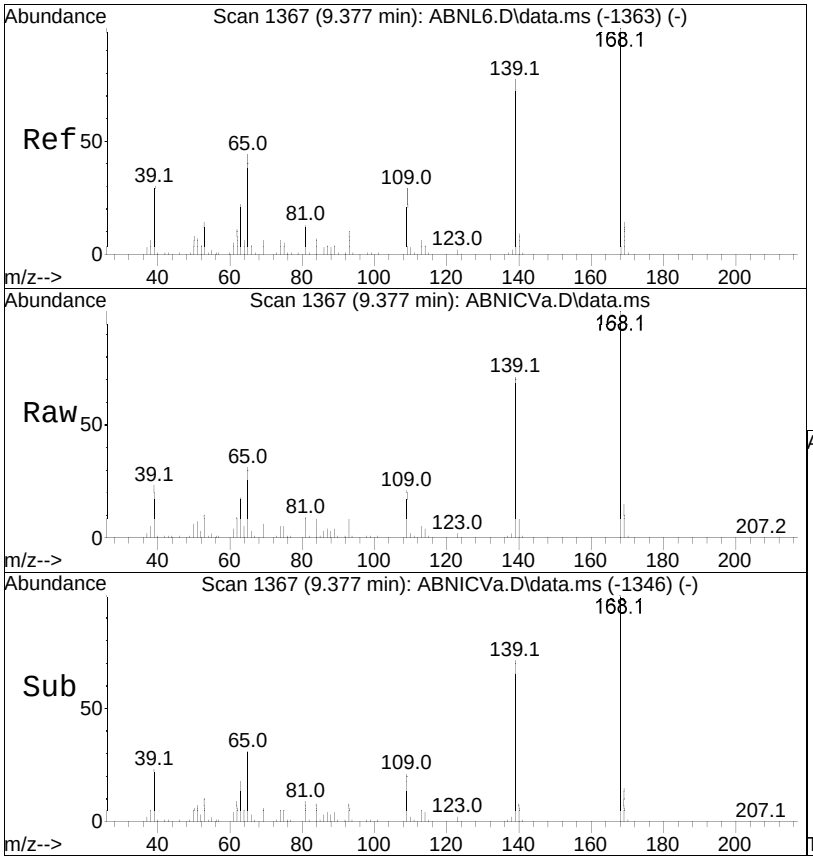


#67
2,4-Dinitrotoluene
Concen: 4.78 ug/ml
RT: 9.401 min Scan# 1371
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:165 Resp: 30802

Ion	Ratio	Lower	Upper
165	100		
89	86.0	72.0	108.0
63	55.1	52.7	79.1

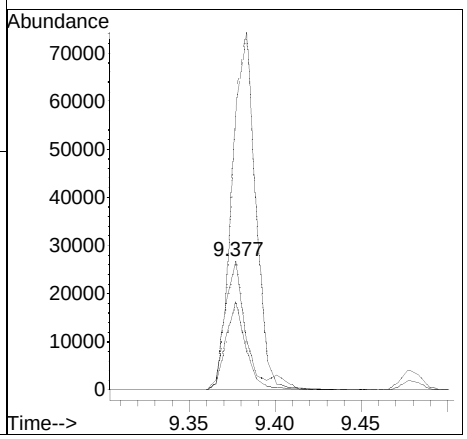


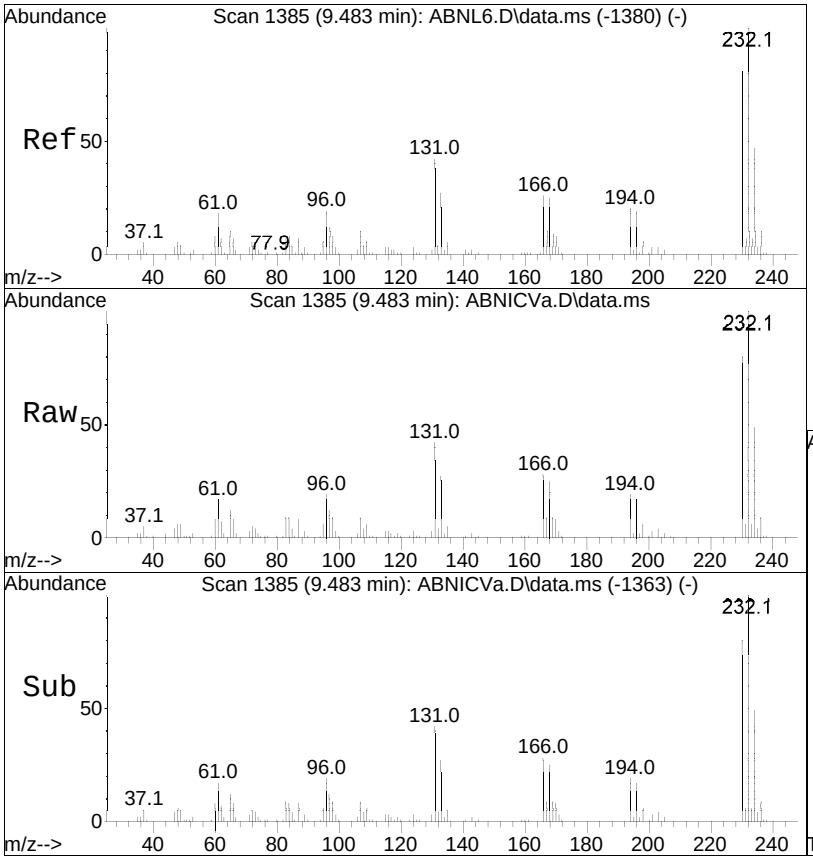


#68
4-Nitrophenol
Concen: 4.79 ug/ml
RT: 9.377 min Scan# 1367
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 65 Resp: 24044

Ion	Ratio	Lower	Upper
65	100		
109	62.5	47.4	71.2
139	292.5	76.6	115.0#

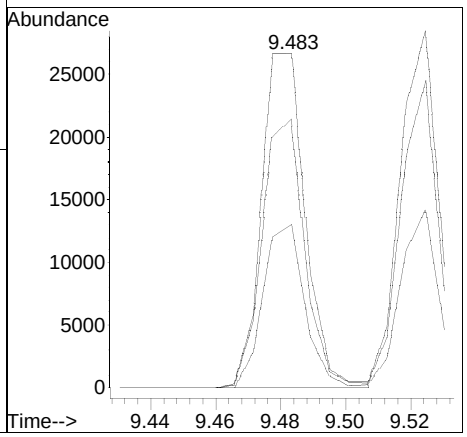


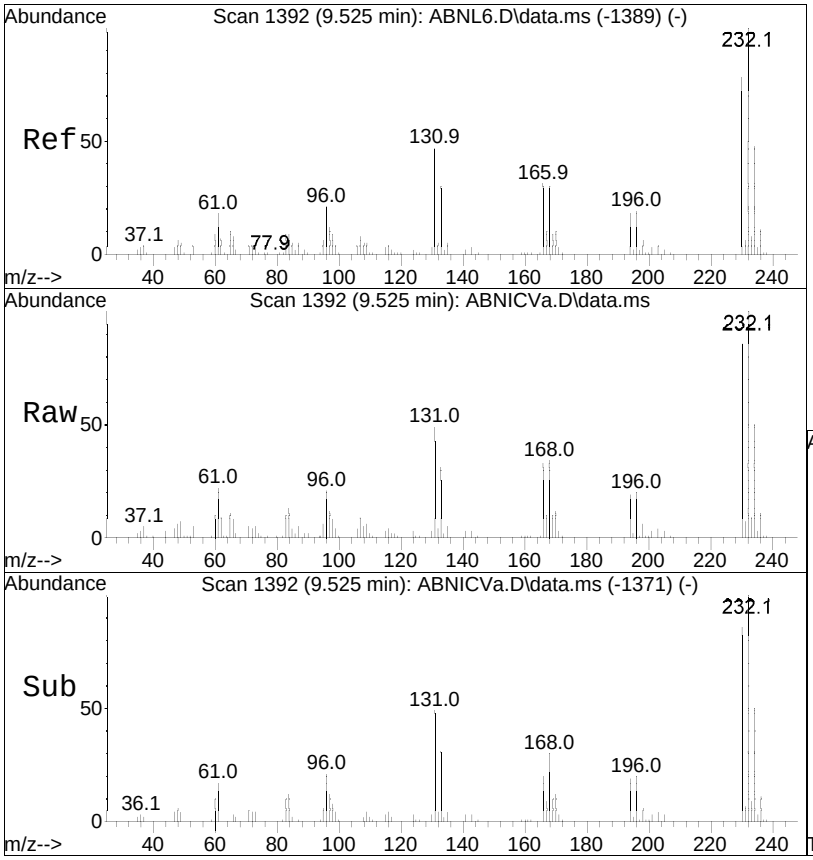


#69
2,3,5,6-Tetrachlorophenol
Concen: 5.01 ug/ml
RT: 9.483 min Scan# 1385
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:232 Resp: 25014

Ion	Ratio	Lower	Upper
232	100		
230	78.6	64.2	96.4
234	46.6	38.1	57.1

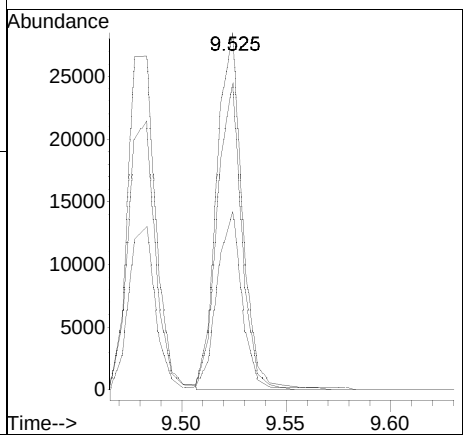


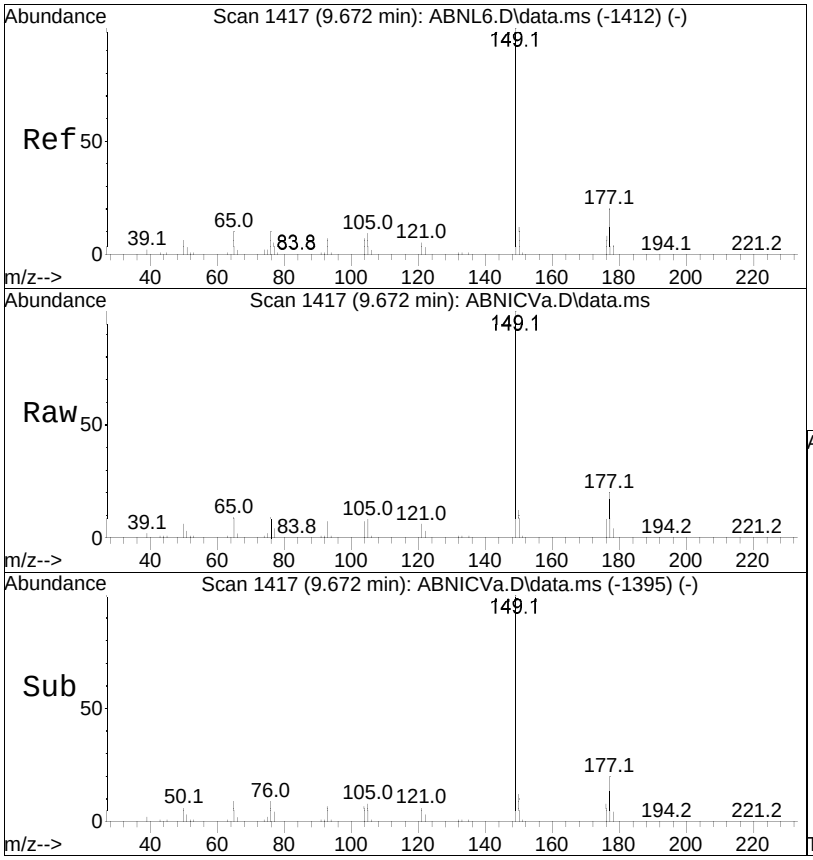


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.52 ug/ml
RT: 9.525 min Scan# 1392
Delta R.T. 0.001 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:232 Resp: 24610

Ion	Ratio	Lower	Upper
232	100		
230	82.2	61.8	92.8
234	48.6	36.2	54.2

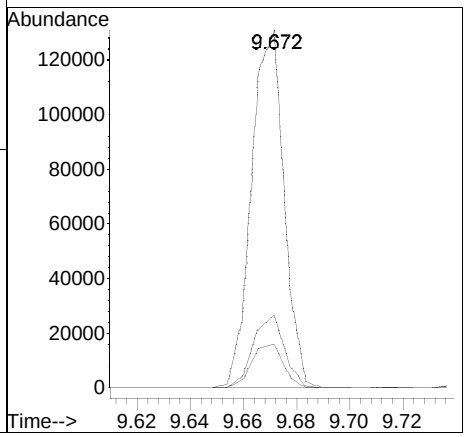


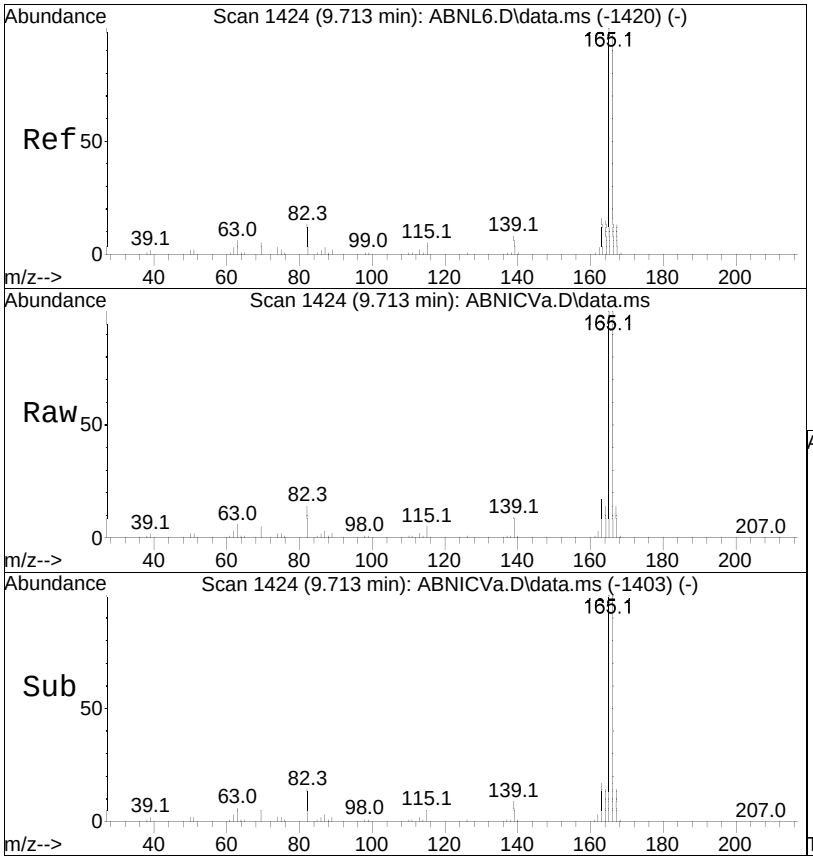


#71
Diethyl phthalate
Concen: 5.04 ug/ml
RT: 9.672 min Scan# 1417
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:149 Resp: 109747

Ion	Ratio	Lower	Upper
149	100		
177	19.9	16.1	24.1
150	12.2	9.4	14.2

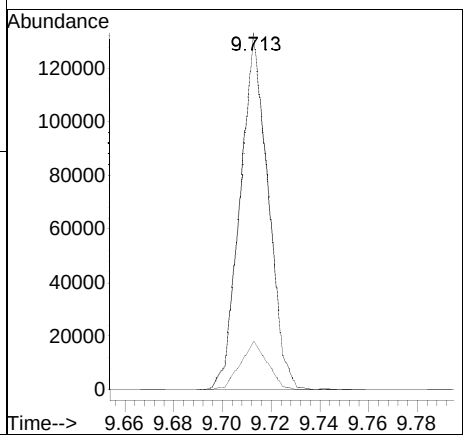


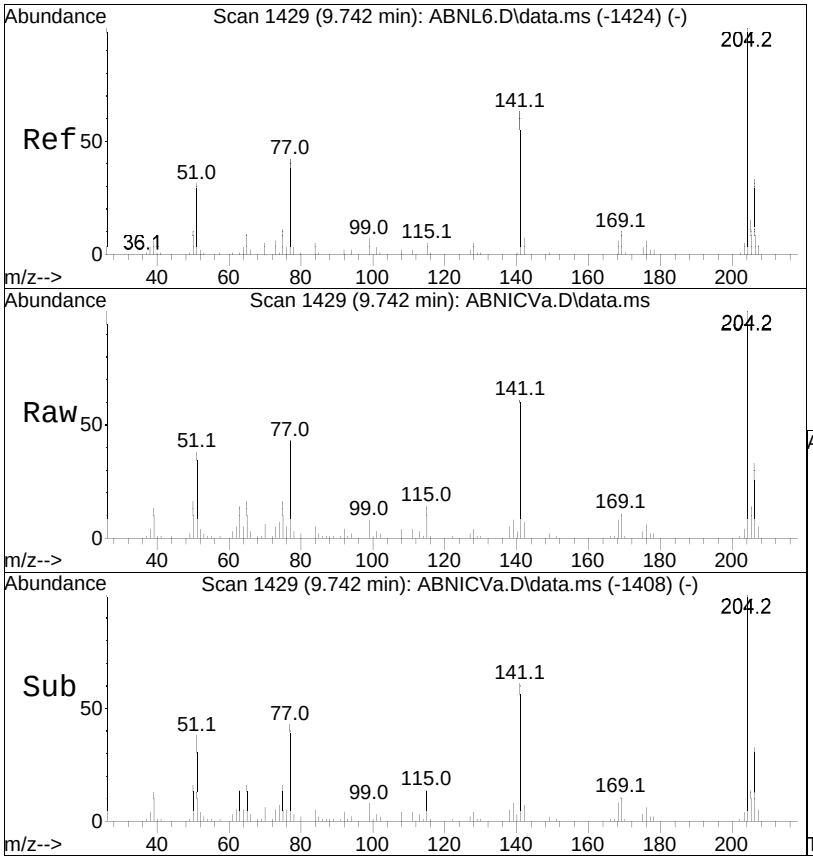


#72
Fluorene
Concen: 5.02 ug/ml
RT: 9.713 min Scan# 1424
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:166 Resp: 105930

Ion	Ratio	Lower	Upper
166	100		
165	100.2	76.2	114.2
167	13.4	10.6	15.8

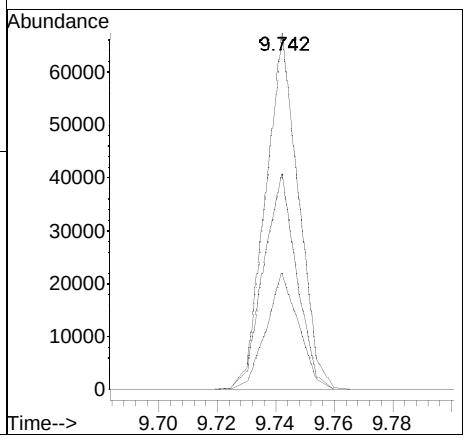


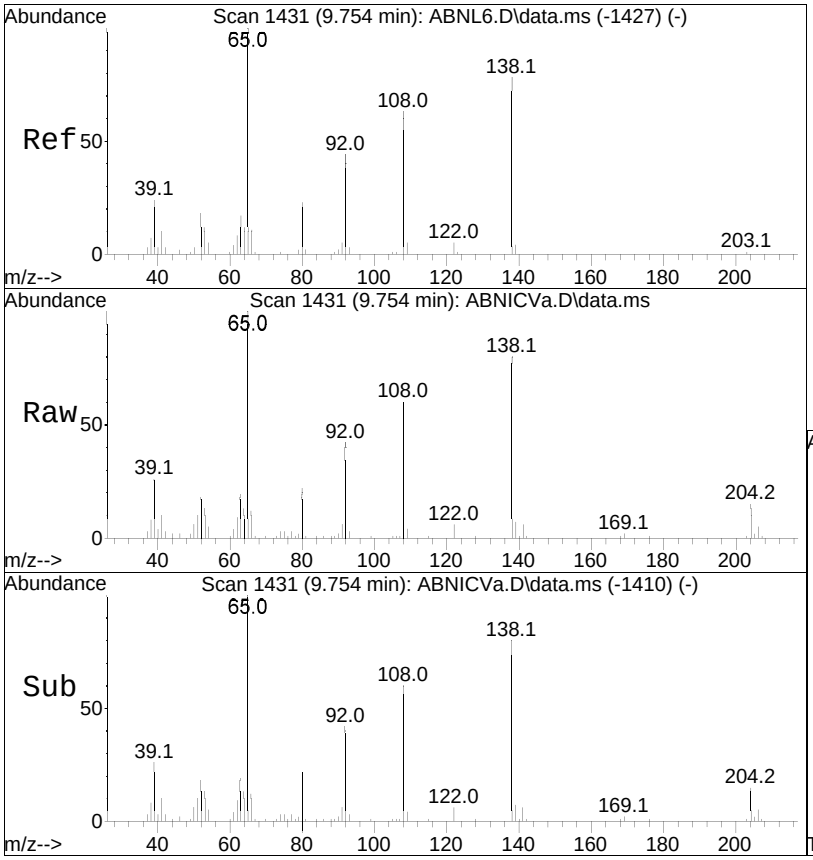


#73
4-Chlorophenyl phenyl ether
Concen: 4.84 ug/ml
RT: 9.742 min Scan# 1429
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:204 Resp: 52253

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.8	38.6
141	61.0	53.6	80.4

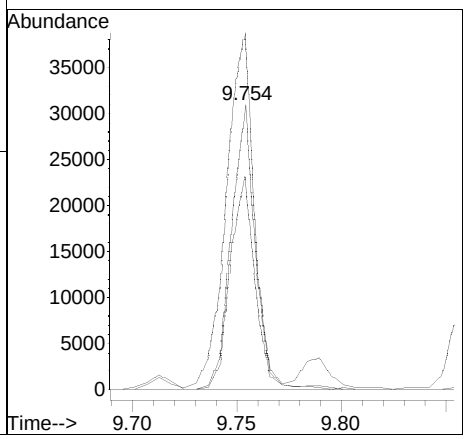


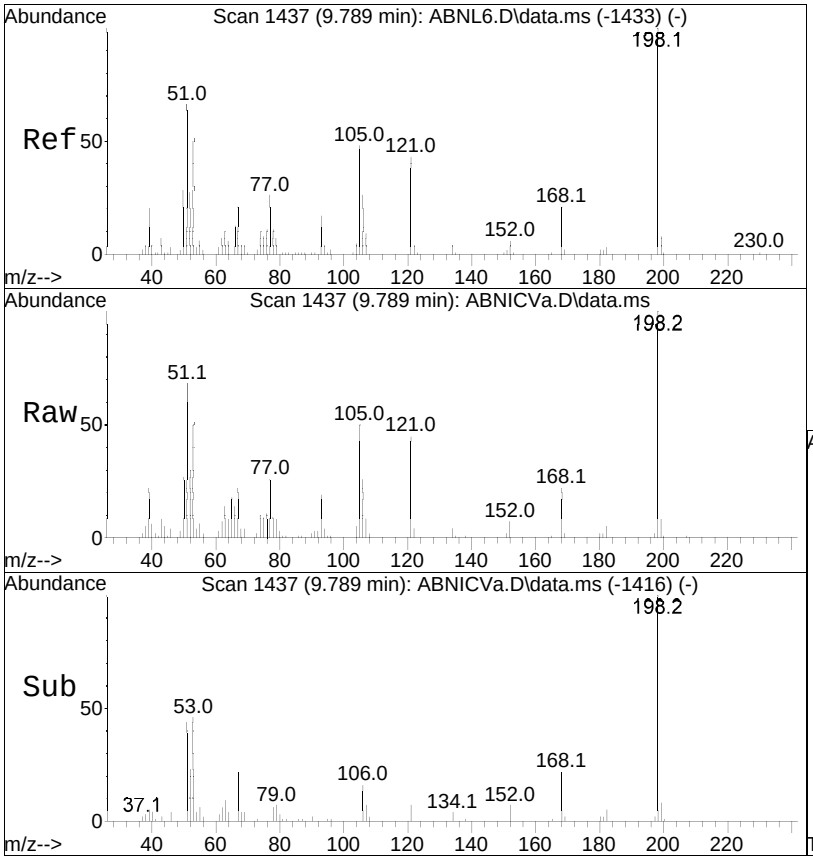


#74
4-Nitroaniline
Concen: 4.93 ug/ml
RT: 9.754 min Scan# 1431
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:138 Resp: 24445

Ion	Ratio	Lower	Upper
138	100		
108	78.6	52.1	78.1#
65	145.8	115.0	172.6

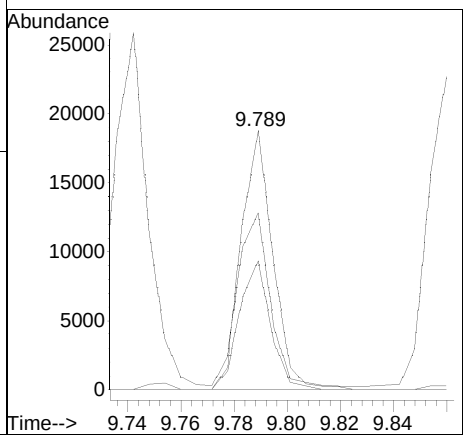


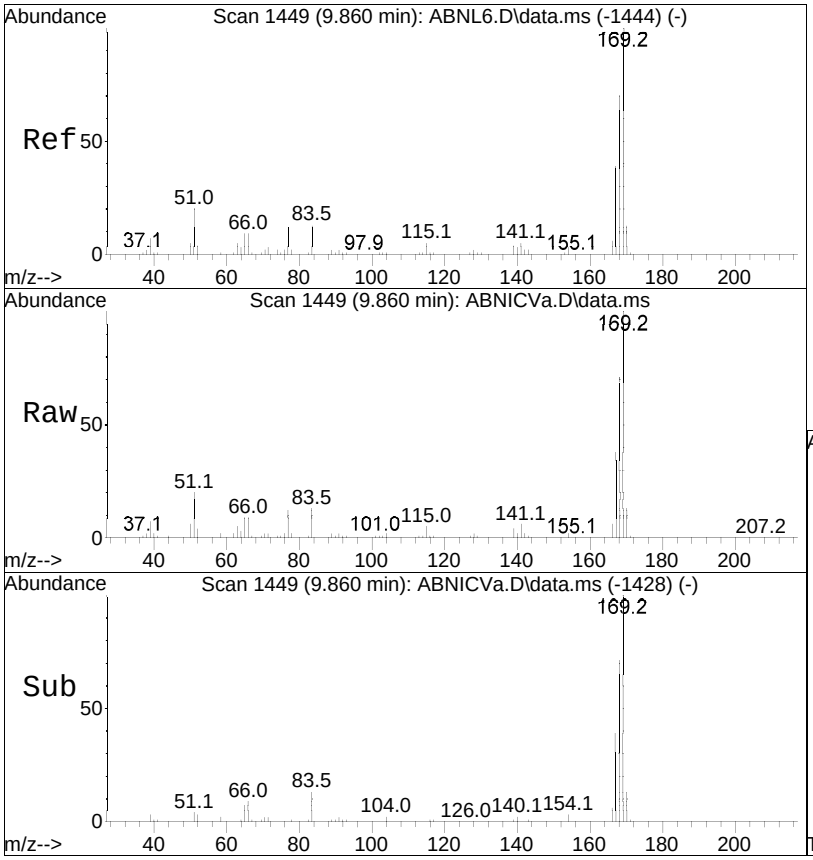


#75
4,6-Dinitro-o-cresol
Concen: 4.69 ug/ml
RT: 9.789 min Scan# 1437
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:198 Resp: 15577

Ion	Ratio	Lower	Upper
198	100		
51	68.6	76.0	114.0#
105	49.0	45.6	68.4

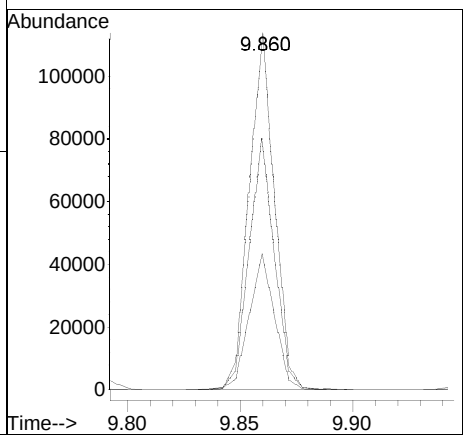


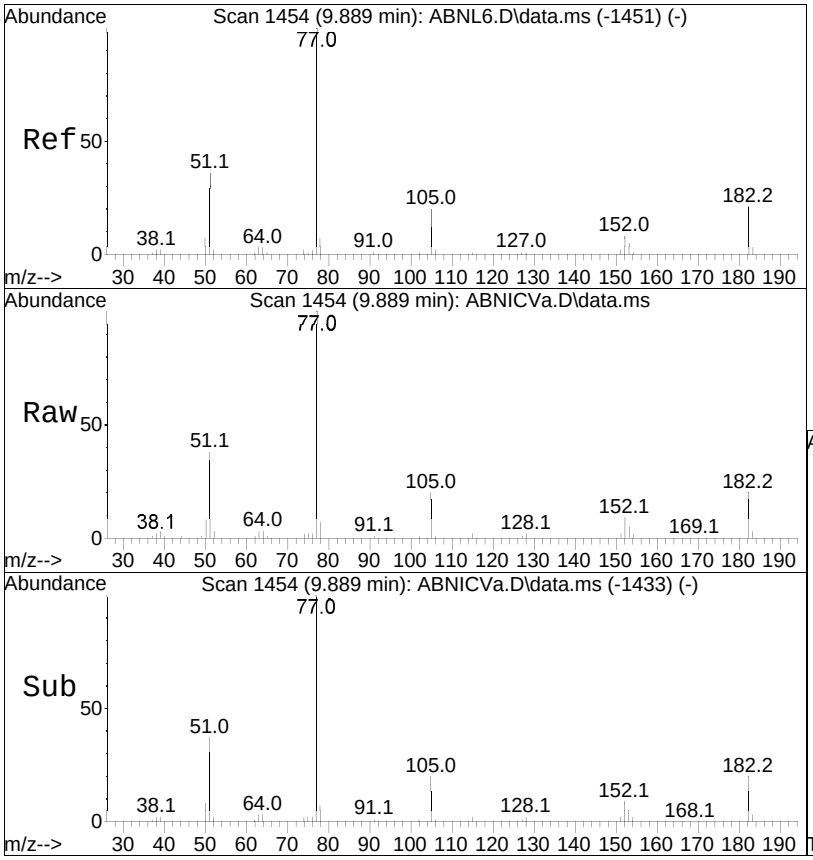


#76
NDPA/DPA
Concen: 5.02 ug/ml
RT: 9.860 min Scan# 1449
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:169 Resp: 89139

Ion	Ratio	Lower	Upper
169	100		
168	70.9	54.0	81.0
167	38.4	28.6	42.8

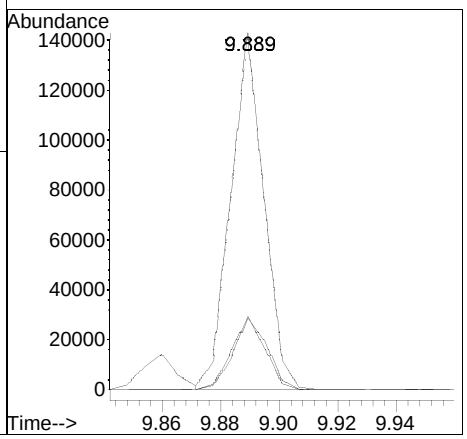


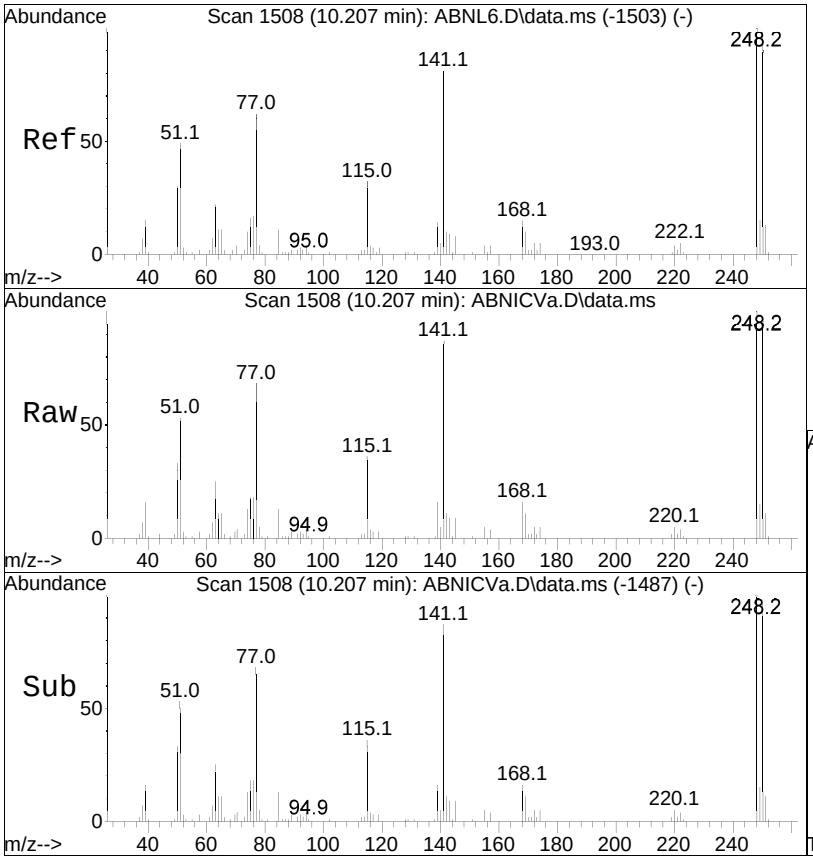


#77
Azobenzene
Concen: 5.19 ug/ml
RT: 9.889 min Scan# 1454
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion: 77 Resp: 111598

Ion	Ratio	Lower	Upper
77	100		
182	21.0	17.4	26.2
105	20.9	15.4	23.2

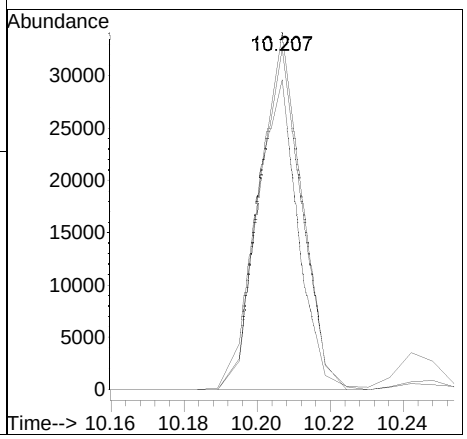


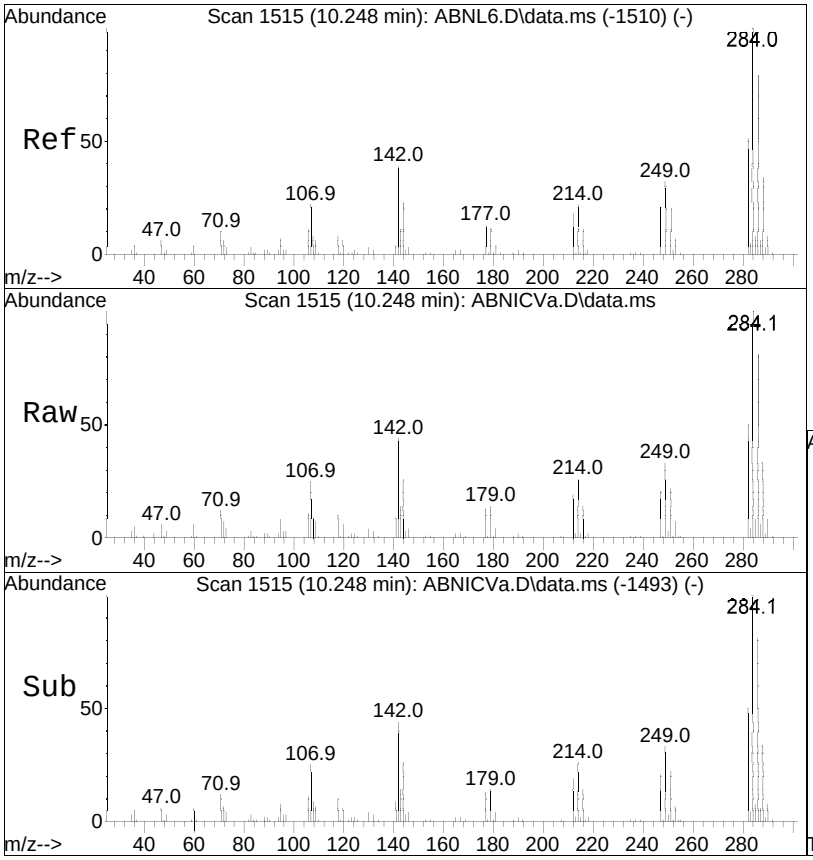


#79
4-Bromophenyl phenyl ether
Concen: 4.73 ug/ml
RT: 10.207 min Scan# 1508
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:248 Resp: 27129

Ion	Ratio	Lower	Upper
248	100		
141	87.2	76.6	114.8
250	95.5	77.3	115.9

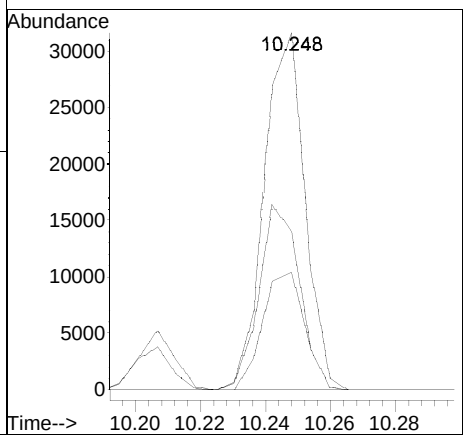


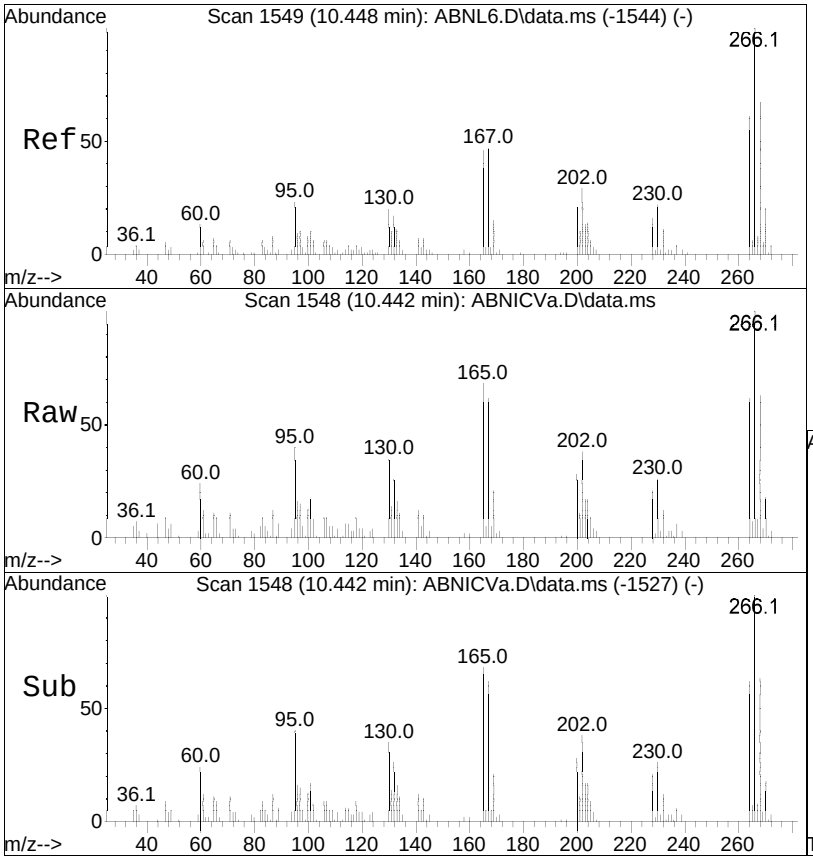


#80
Hexachlorobenzene
Concen: 4.56 ug/ml
RT: 10.248 min Scan# 1515
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:284 Resp: 27457

Ion	Ratio	Lower	Upper
284	100		
142	51.8	41.9	62.9
249	34.2	24.1	36.1

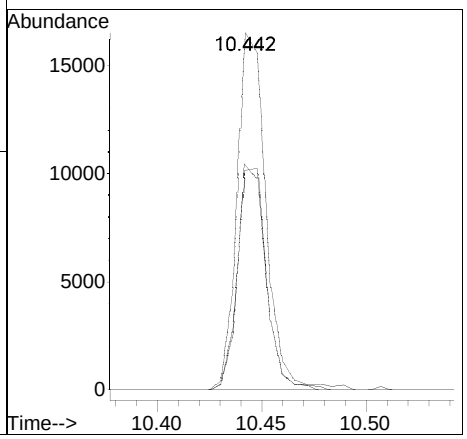


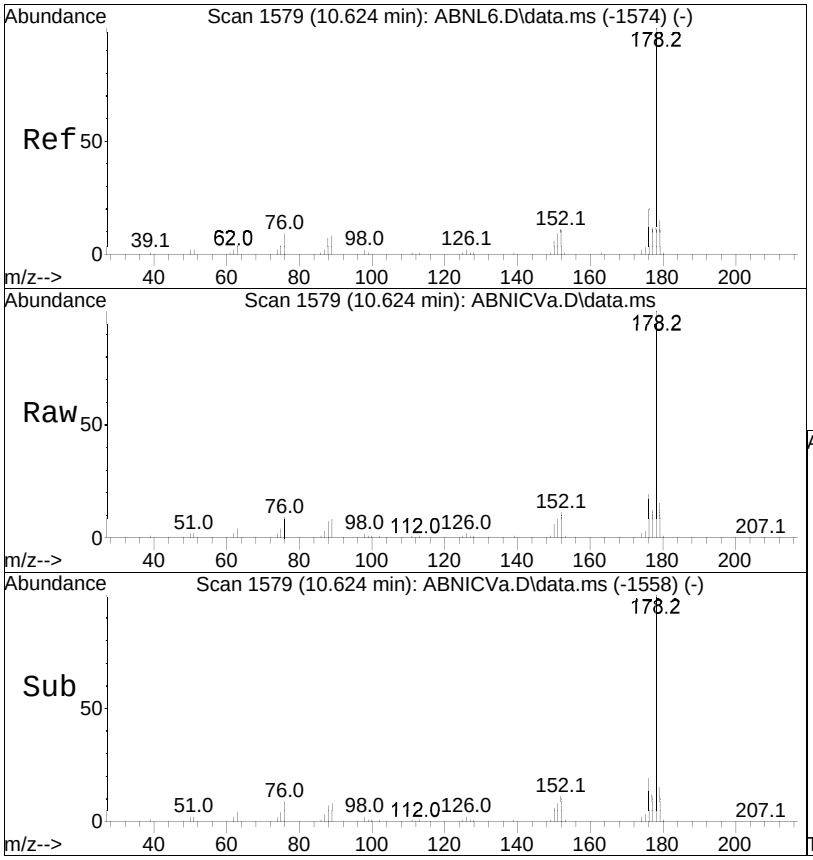


#81
Pentachlorophenol
Concen: 4.46 ug/ml
RT: 10.442 min Scan# 1548
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:266 Resp: 15864

Ion	Ratio	Lower	Upper
266	100		
264	62.5	49.7	74.5
268	61.6	50.5	75.7

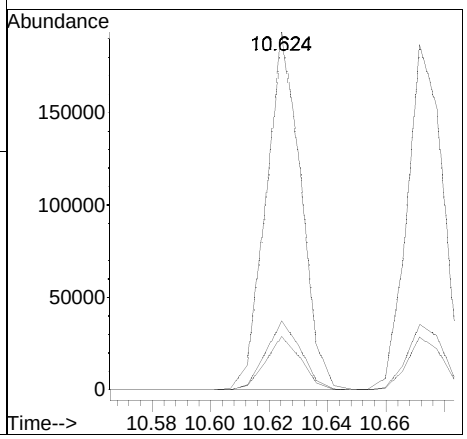


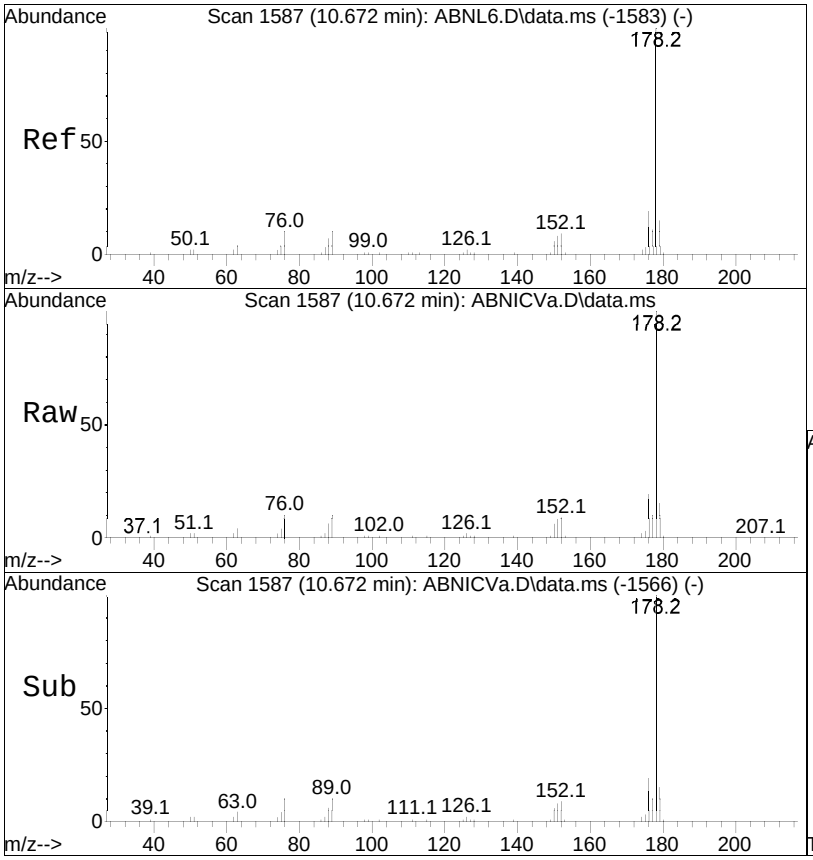


#88
Phenanthrene
Concen: 4.80 ug/ml
RT: 10.624 min Scan# 1579
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:178 Resp: 160898

Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.2	18.2
176	19.3	15.4	23.2

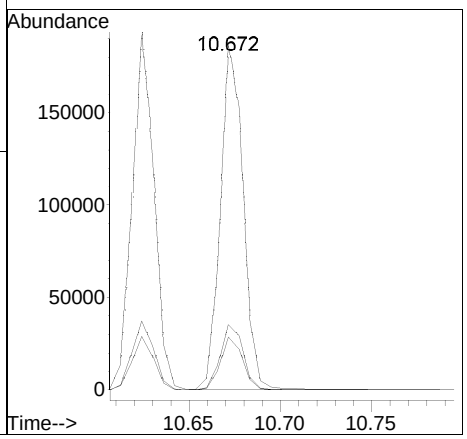


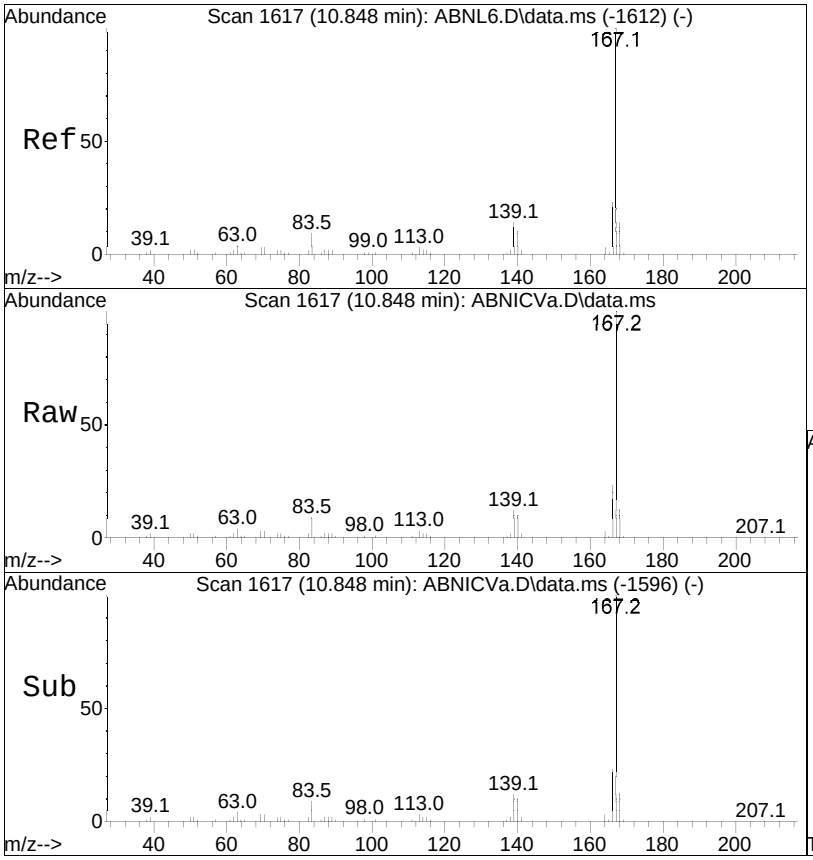


#89
Anthracene
Concen: 4.87 ug/ml
RT: 10.672 min Scan# 1587
Delta R.T. 0.001 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:178 Resp: 161067

Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.0	18.0
176	19.1	14.6	22.0

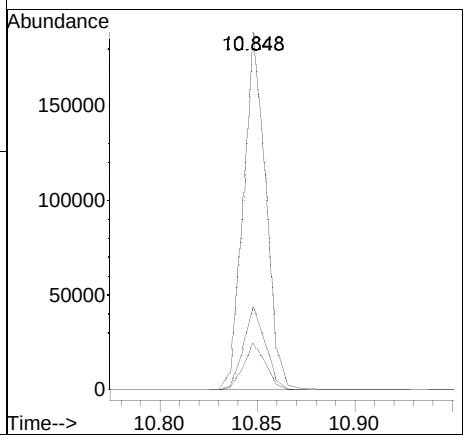


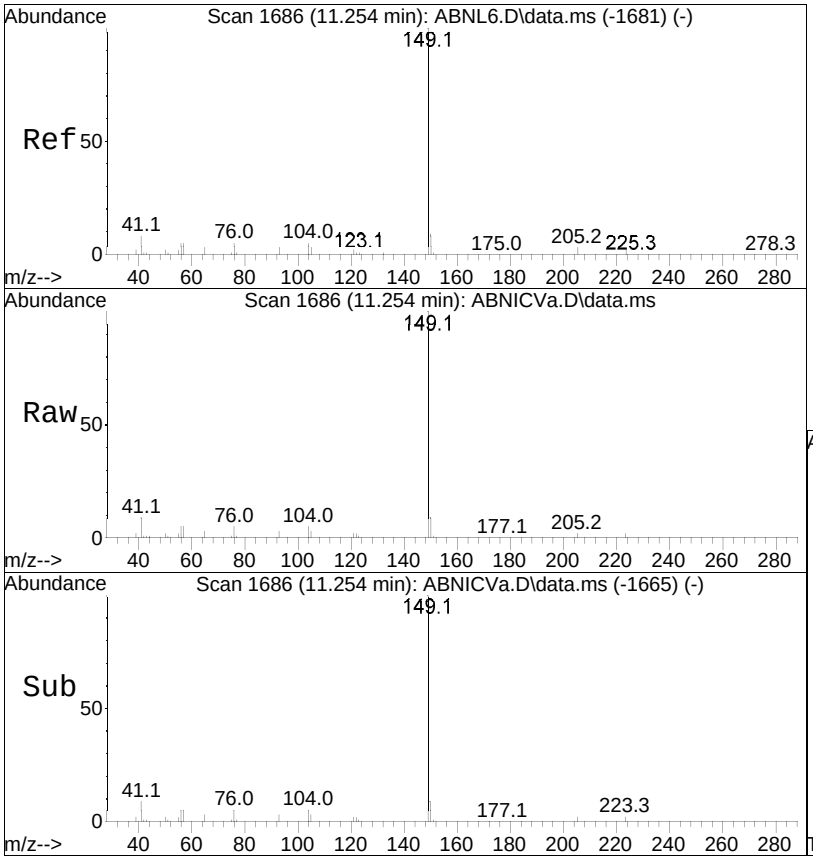


#90
Carbazole
Concen: 5.18 ug/ml
RT: 10.848 min Scan# 1617
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:167 Resp: 149741

Ion	Ratio	Lower	Upper
167	100		
168	13.1	10.6	15.8
166	23.0	17.4	26.0

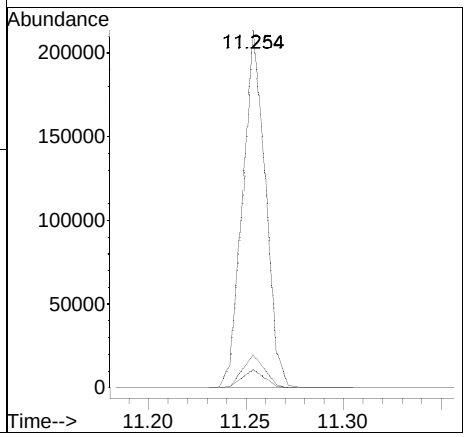


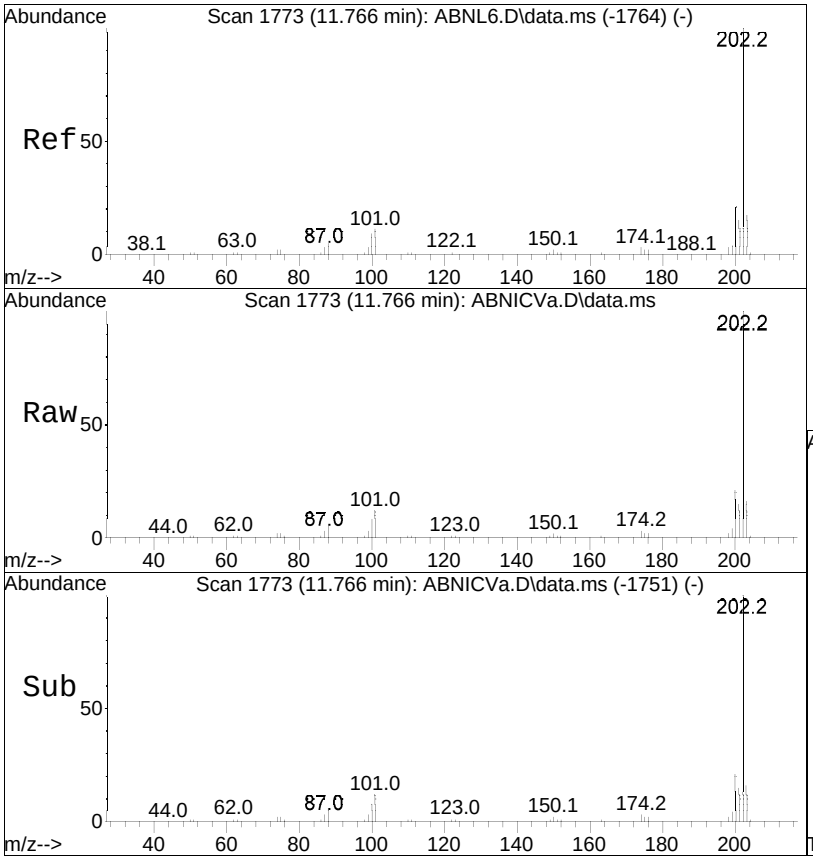


#91
Di-n-butylphthalate
Concen: 4.68 ug/ml
RT: 11.254 min Scan# 1686
Delta R.T. -0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:149 Resp: 170573

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	5.2	4.5	6.7

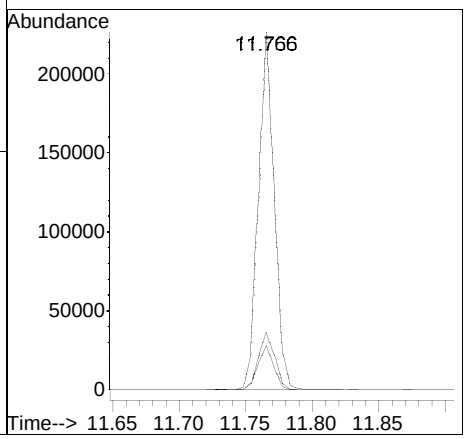


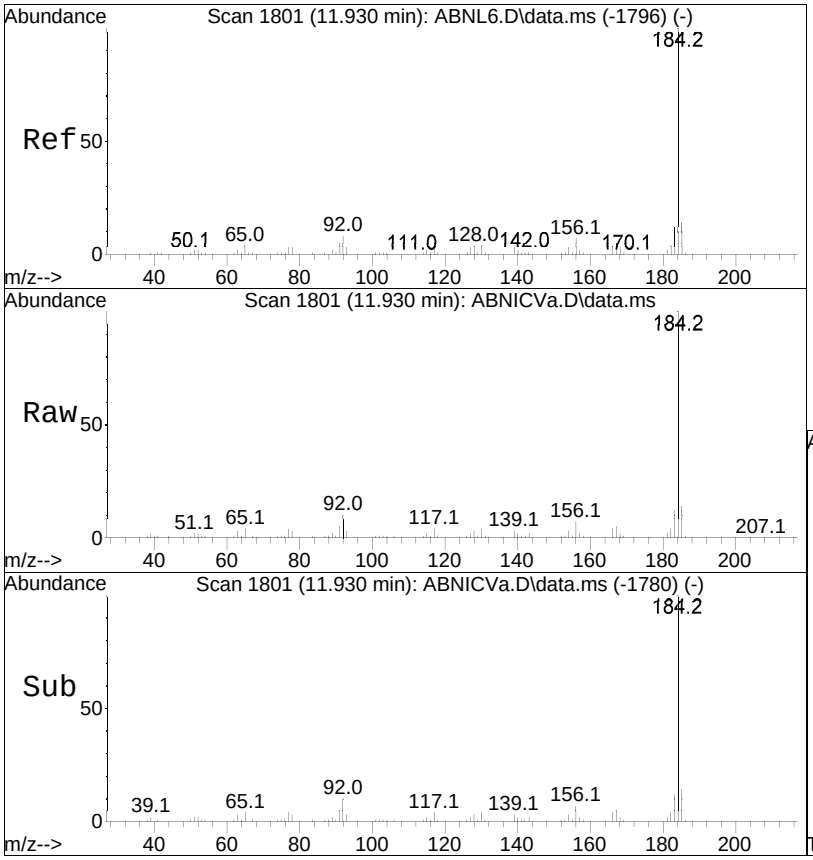


#92
Fluoranthene
Concen: 4.92 ug/ml
RT: 11.766 min Scan# 1773
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:202 Resp: 184810

Ion	Ratio	Lower	Upper
202	100		
101	12.6	13.5	20.3#
203	16.9	13.6	20.4

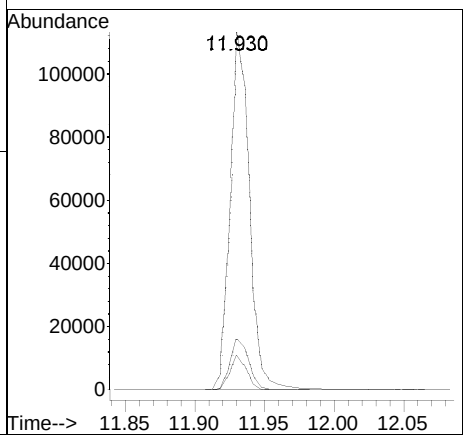


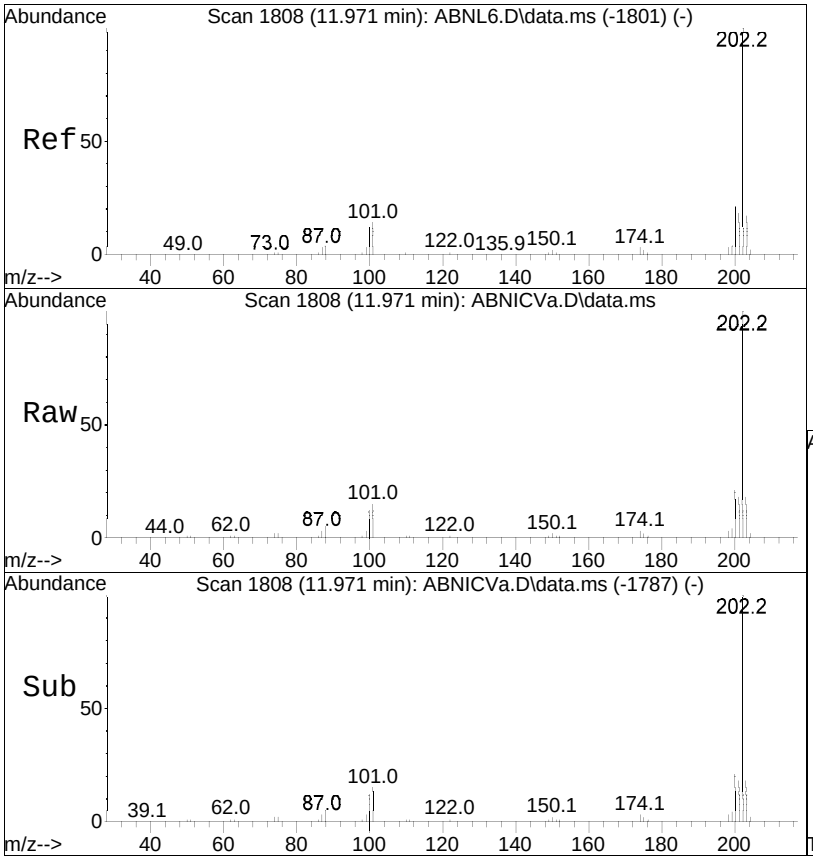


#93
Benzidine
Concen: 4.79 ug/ml
RT: 11.930 min Scan# 1801
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:184 Resp: 108033

Ion	Ratio	Lower	Upper
184	100		
92	8.4	9.1	13.7#
185	14.3	11.1	16.7

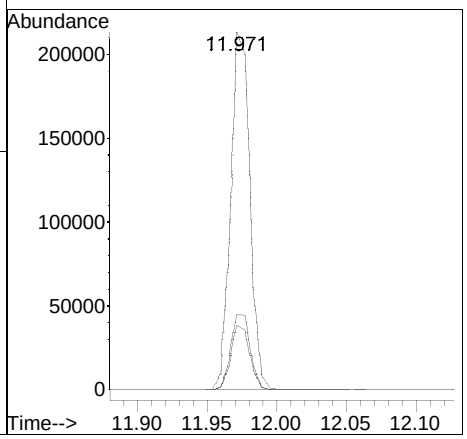


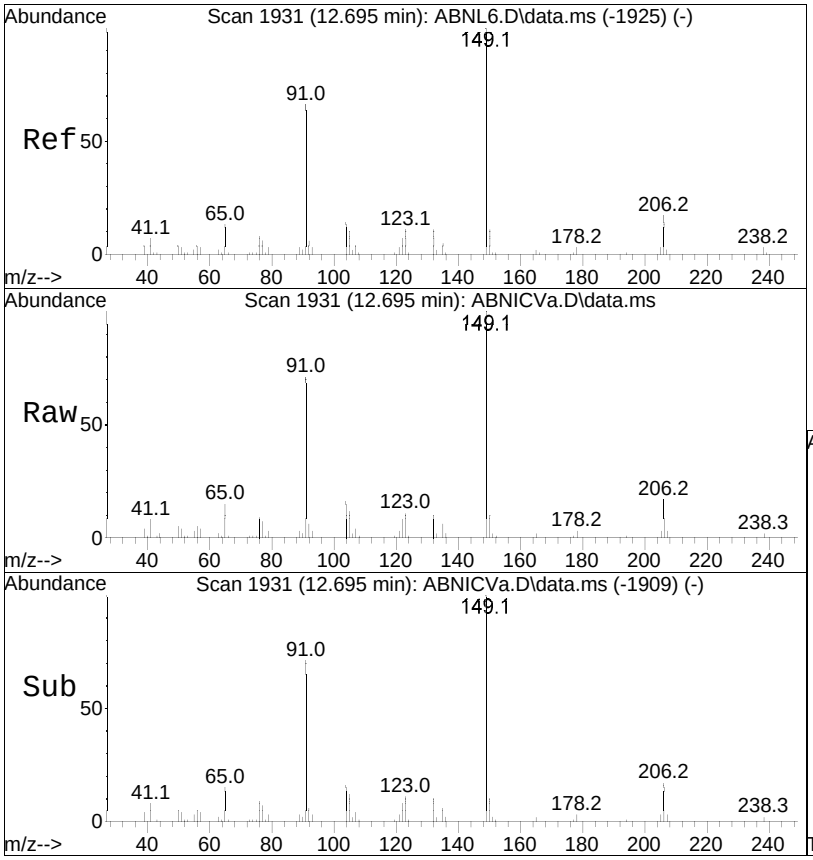


#94
Pyrene
Concen: 5.04 ug/ml
RT: 11.971 min Scan# 1808
Delta R.T. 0.000 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:202 Resp: 201652

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.7	25.1
203	17.9	14.2	21.4

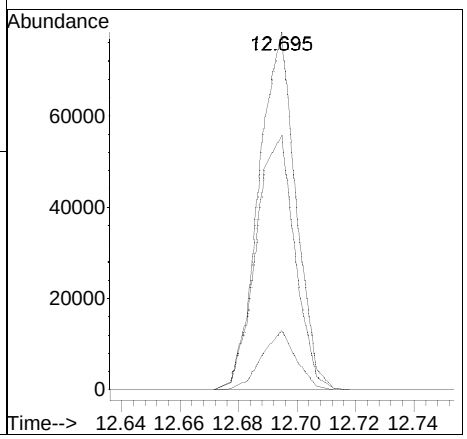


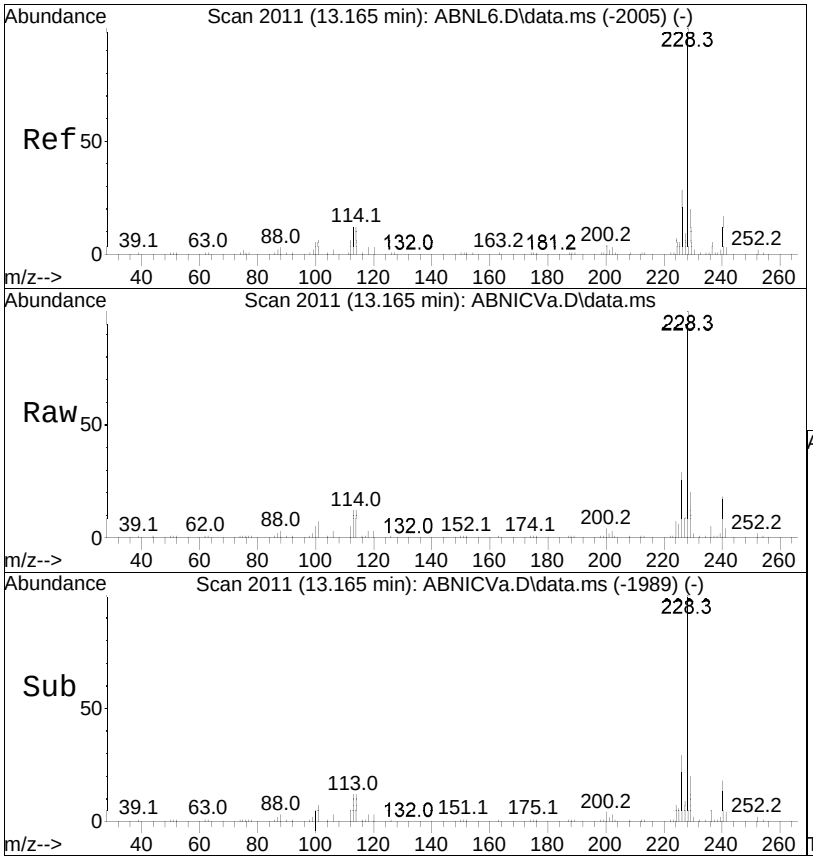


#96
Butyl benzyl phthalate
Concen: 4.38 ug/ml
RT: 12.695 min Scan# 1931
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:149 Resp: 68125

Ion	Ratio	Lower	Upper
149	100		
91	75.0	63.3	94.9
206	15.6	13.9	20.9

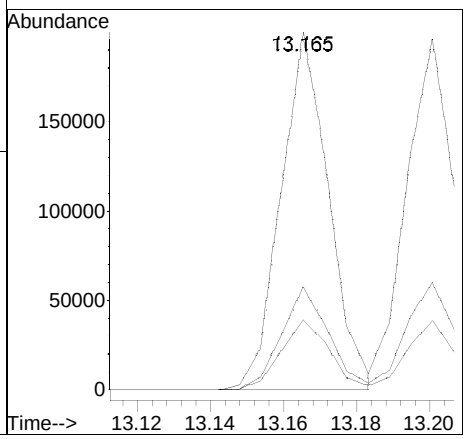


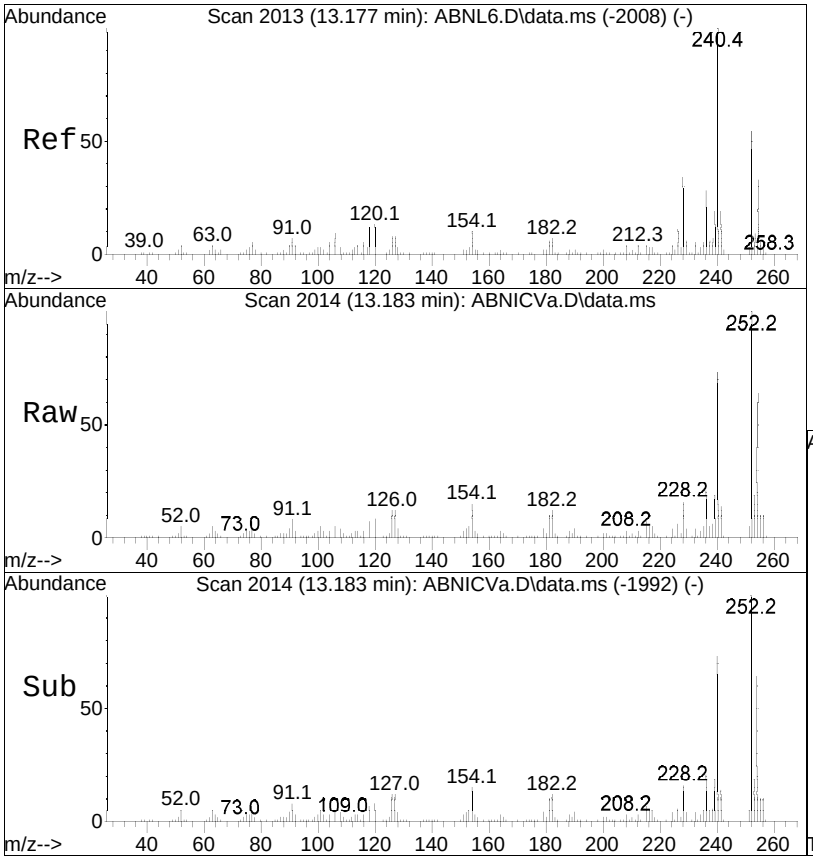


#104
Benzo(a)anthracene
Concen: 4.95 ug/ml
RT: 13.165 min Scan# 2011
Delta R.T. 0.005 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:228 Resp: 181173

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.2	33.4
229	20.0	15.6	23.4

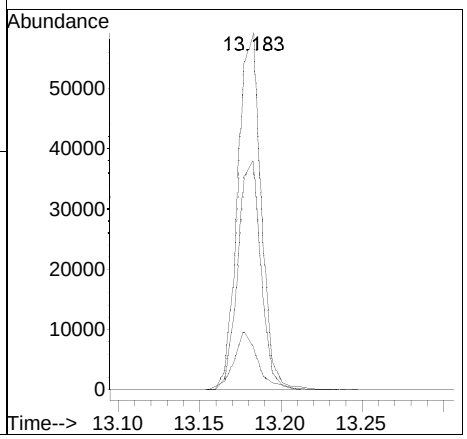


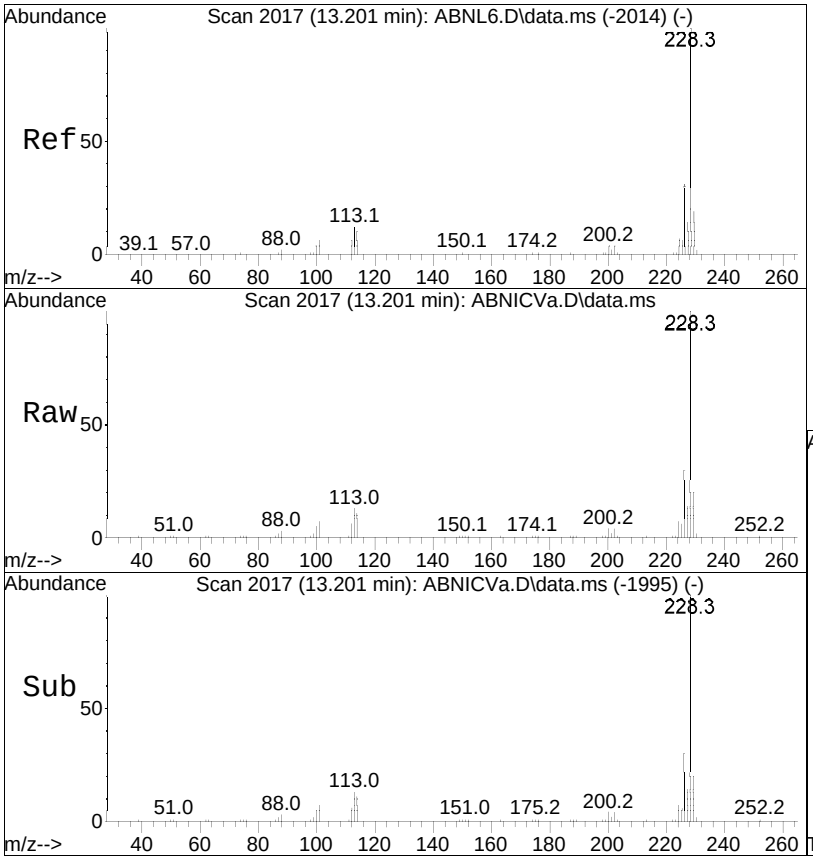


#105
3,3'-Dichlorobenzidine
Concen: 4.77 ug/ml
RT: 13.183 min Scan# 2014
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:252 Resp: 59337

Ion	Ratio	Lower	Upper
252	100		
126	17.0	14.5	21.7
254	63.6	51.2	76.8

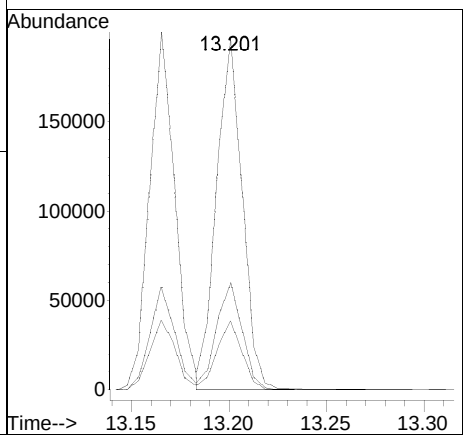


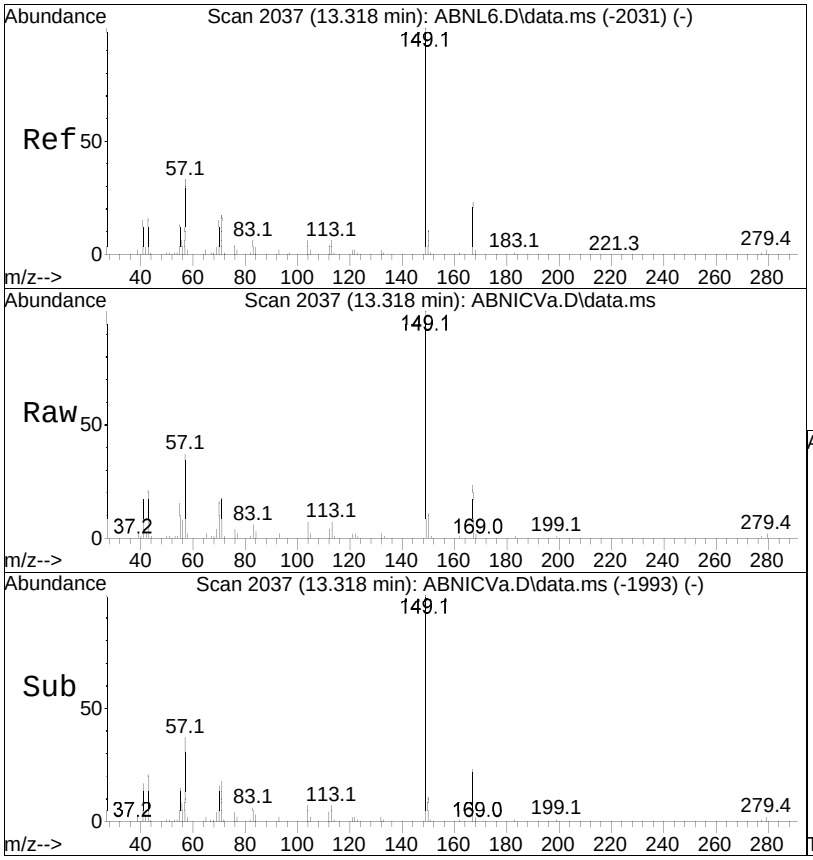


#106
Chrysene
Concen: 4.97 ug/ml
RT: 13.201 min Scan# 2017
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:228 Resp: 181074

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.0	36.0
229	19.1	15.8	23.8

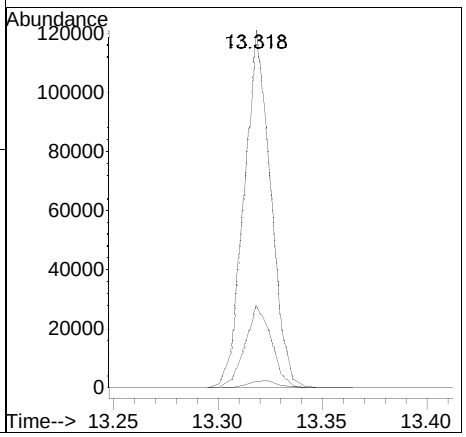


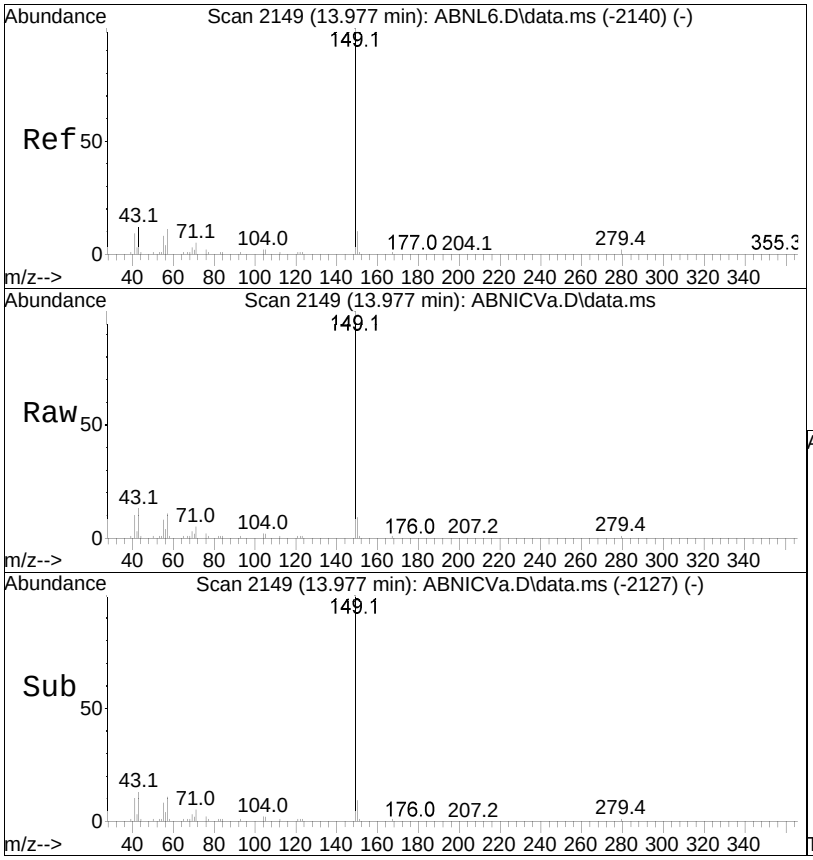


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.57 ug/ml
RT: 13.318 min Scan# 2037
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:149 Resp: 106067

Ion	Ratio	Lower	Upper
149	100		
167	23.1	22.1	33.1
279	2.1	3.0	4.4#

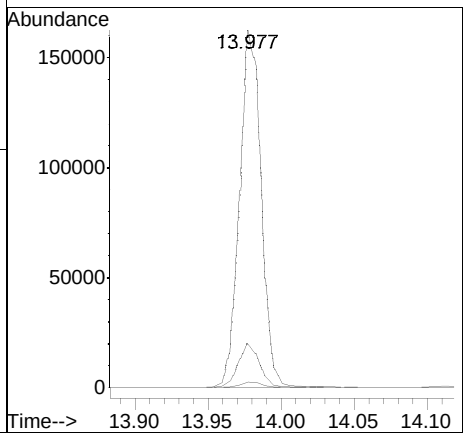


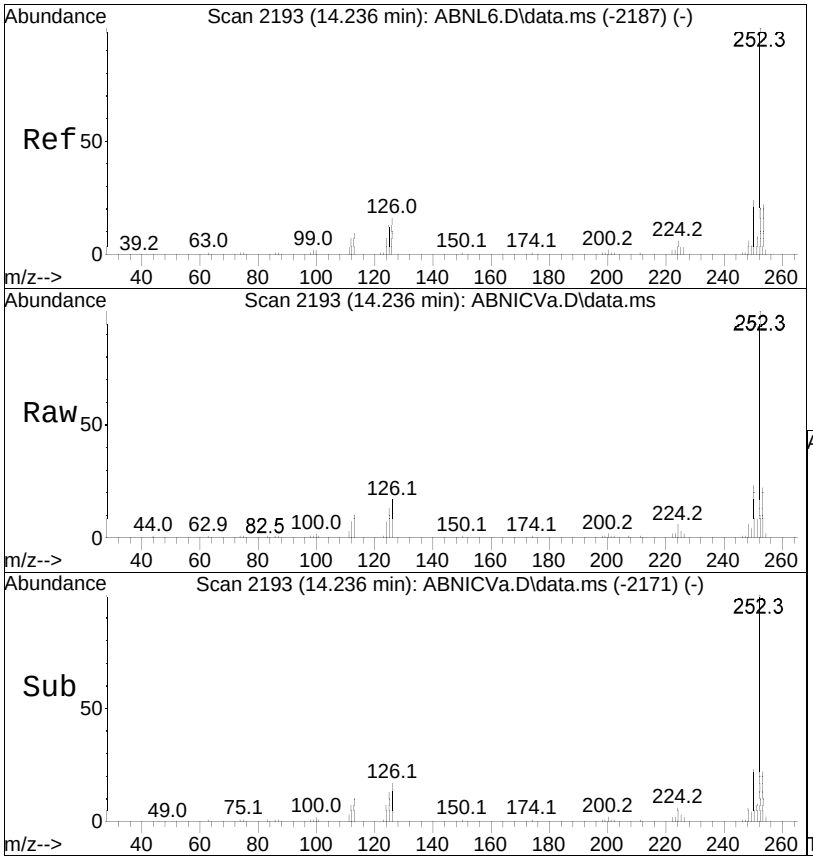


#108
Di-n-octylphthalate
Concen: 4.25 ug/ml
RT: 13.977 min Scan# 2149
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:149 Resp: 164169

Ion	Ratio	Lower	Upper
149	100		
43	12.4	18.8	28.2#
167	1.4	1.3	1.9

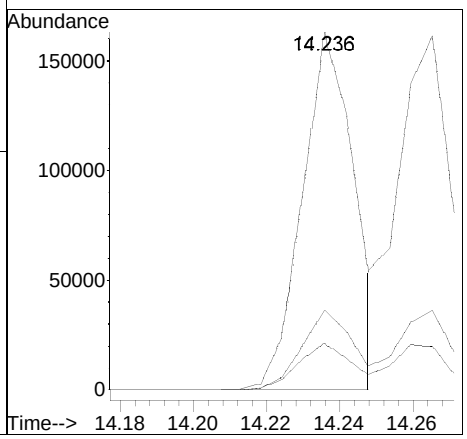


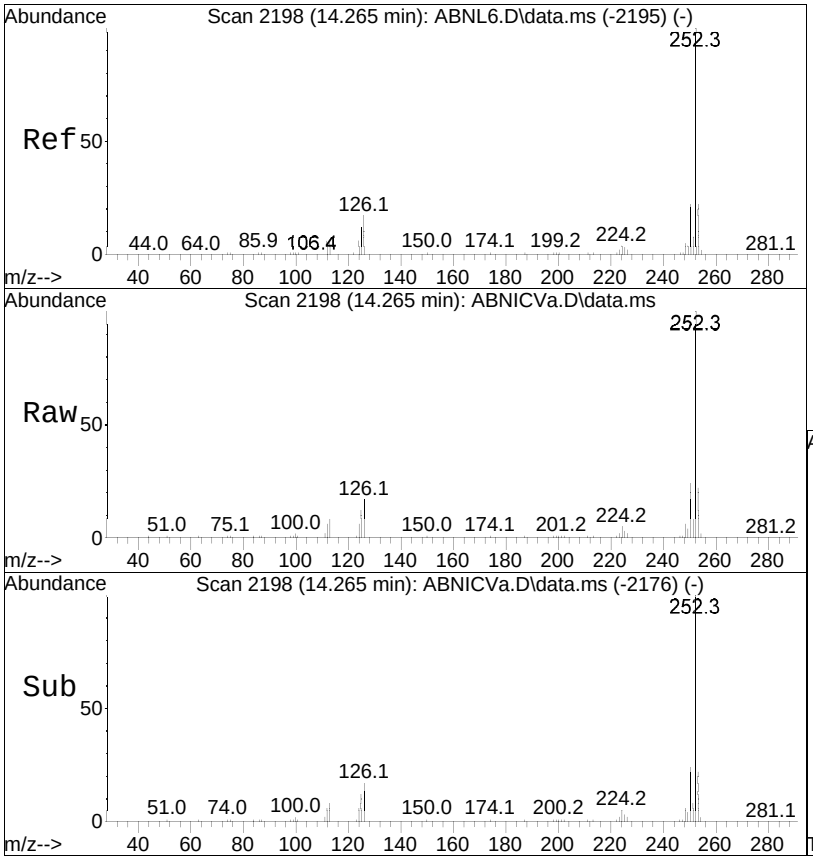


#109
Benzo(b)fluoranthene
Concen: 4.76 ug/ml
RT: 14.236 min Scan# 2193
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:252 Resp: 162080

Ion	Ratio	Lower	Upper
252	100		
125	13.6	13.3	19.9
253	22.0	17.1	25.7

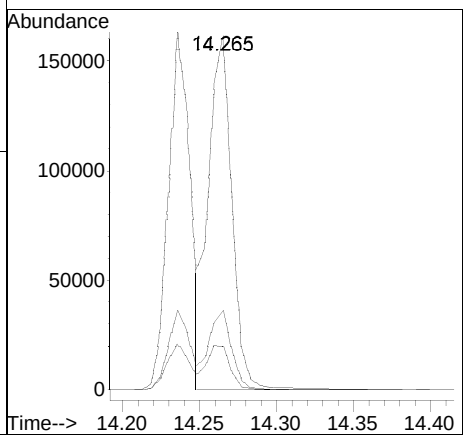


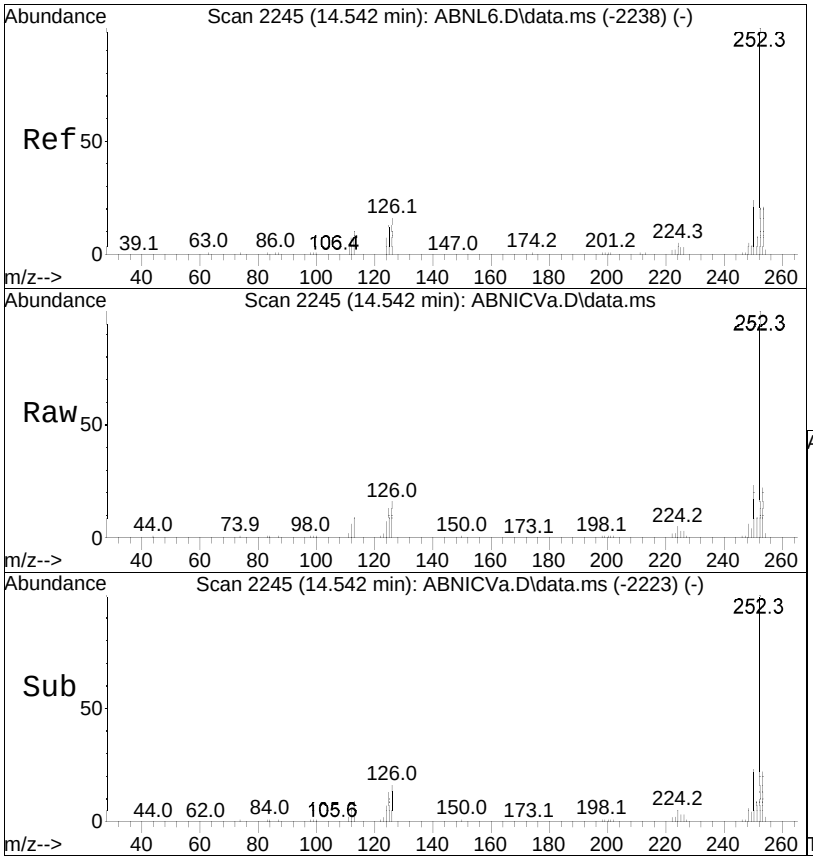


#110
Benzo(k)fluoranthene
Concen: 5.13 ug/ml
RT: 14.265 min Scan# 2198
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:252 Resp: 168763

Ion	Ratio	Lower	Upper
252	100		
125	12.9	13.0	19.6#
253	22.2	16.8	25.2

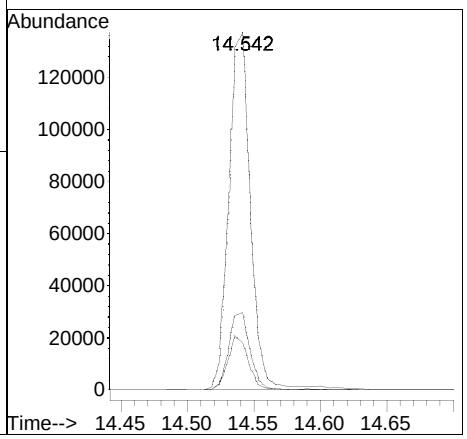


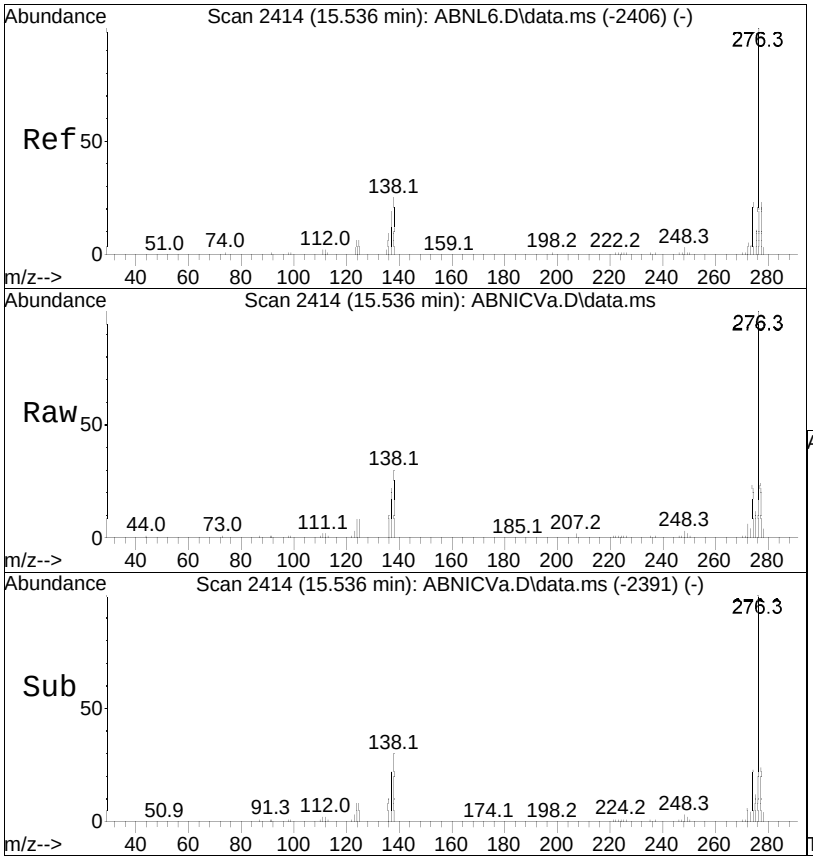


#111
Benzo(a)pyrene
Concen: 5.30 ug/ml
RT: 14.542 min Scan# 2245
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:252 Resp: 154820

Ion	Ratio	Lower	Upper
252	100		
125	14.6	14.2	21.2
253	21.5	16.9	25.3

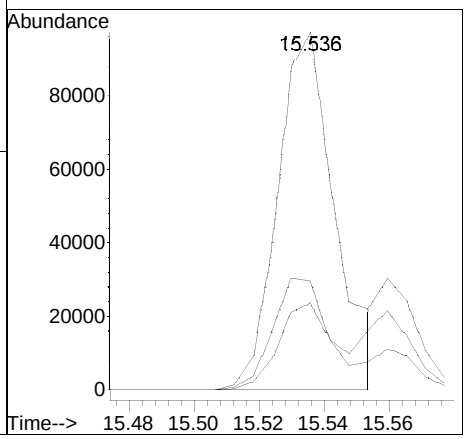


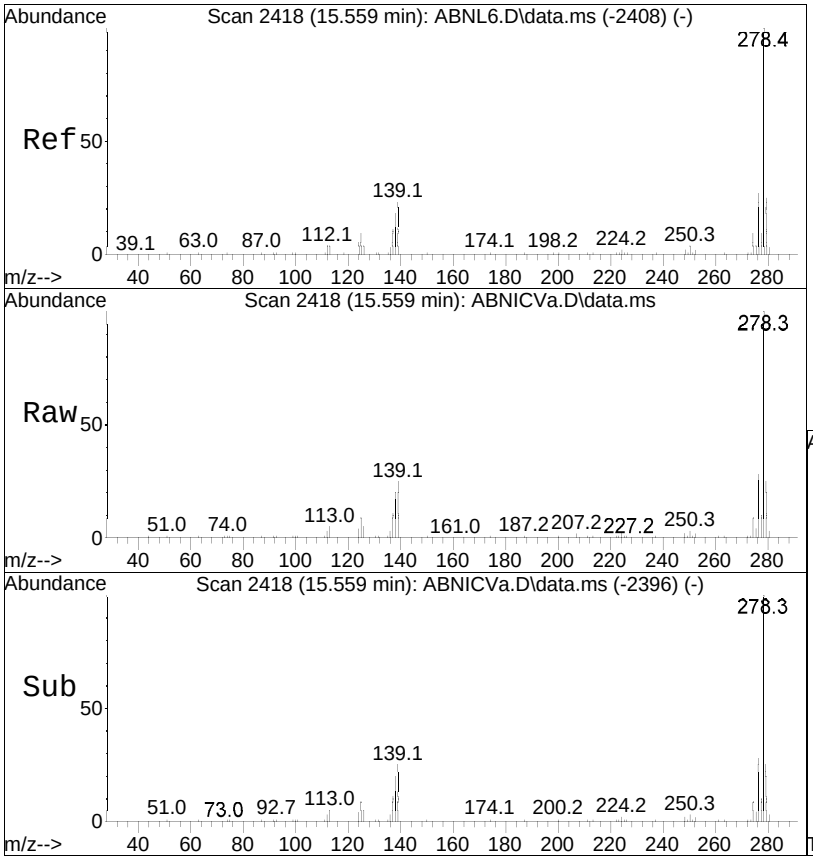


#113
Indeno(1,2,3-cd)pyrene
Concen: 4.89 ug/mL
RT: 15.536 min Scan# 2414
Delta R.T. 0.012 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:276 Resp: 118648

Ion	Ratio	Lower	Upper
276	100		
138	30.8	25.1	37.7
277	24.8	18.6	28.0

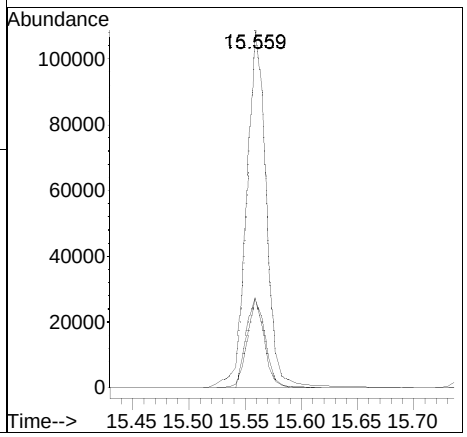


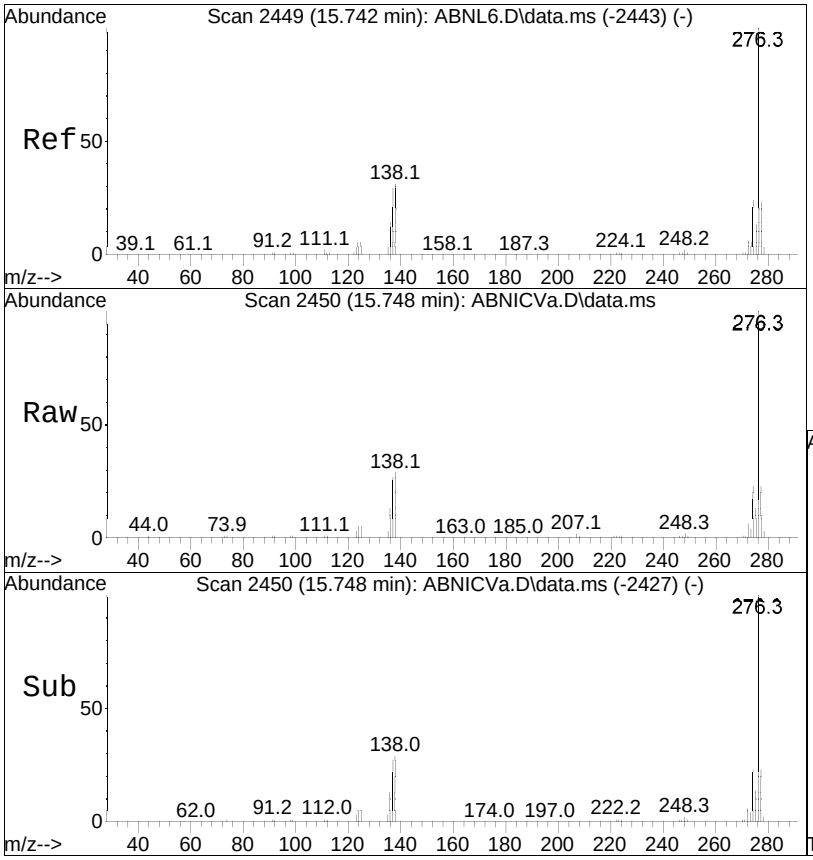


#114
Dibenzo(a,h)anthracene
Concen: 4.83 ug/ml
RT: 15.559 min Scan# 2418
Delta R.T. 0.006 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:278 Resp: 131266

Ion	Ratio	Lower	Upper
278	100		
139	23.3	20.8	31.2
279	23.4	18.3	27.5

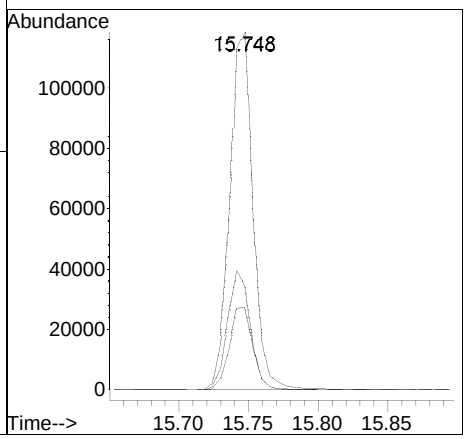




#115
Benzo(ghi)perylene
Concen: 5.03 ug/ml
RT: 15.748 min Scan# 2450
Delta R.T. 0.012 min
Lab File: ABNICVa.D
Acq: 27 Oct 2023 2:19 pm

Tgt Ion:276 Resp: 137695

Ion	Ratio	Lower	Upper
276	100		
138	32.7	29.2	43.8
277	23.5	18.8	28.2



Manual Integration Report

Data Path	: I:\8270\SV107\231025ical\	QMethod	: FS231025SV107.m
Data File	: ABNICVa.D	Operator	: SV107:cmm
Date Inj'd	: 10/27/2023 2:19 pm	Instrument	: SV107
Sample	: CQICV1,32,,ABNICV Lot# 100	Quant Date	: 10/28/2023 5:14 pm

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

Evaluate Relative Error Report SV107

Method Path : I:\8270\SV107\231025ical\
Method File : FS231025SV107.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Sat Oct 28 17:08:03 2023

		COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
36	T	Benzoic Acid	L	ug/ml	5.0	4.557	-8.9	2.00	2.328	16.4
47	T	2-Nitroaniline	L	ug/ml	5.0	4.528	-9.4	1.00	1.224	22.4
65	T	2,4-Dinitrophenol	L	ug/ml	5.0	4.560	-8.8	2.00	2.306	15.3
70	T	2,3,4,6-Tetrachlorophenol	L	ug/ml	5.0	4.531	-9.4	0.40	0.466	16.5
75	T	4,6-Dinitro-o-cresol	L	ug/ml	5.0	4.592	-8.2	2.00	2.276	13.8
78	S	2,4,6-Tribromophenol	L	ug/ml	5.0	4.313	-13.7	0.40	0.491	22.7
81	T	Pentachlorophenol	L	ug/ml	5.0	4.424	-11.5	1.00	1.282	28.2
86	T	Atrazine	LO	ug/ml	5.0	4.304	-13.9	0.40	0.307	-23.3
93	T	Benzidine	L	ug/ml	5.0	4.634	-7.3	2.00	2.189	9.5
96	T	Butyl benzyl phthalate	L	ug/ml	5.0	4.312	-13.8	1.00	1.290	29.0
101	T	Parathion	L	ug/ml	5.0	4.435	-11.3	2.00	2.481	24.0
102	T	3,3'-Dimethylbenzidine	L	ug/ml	5.0	4.436	-11.3	2.00	2.351	17.5
107	T	Bis(2-ethylhexyl)phthalate	Q	ug/ml	5.0	4.685	-6.3	0.40	0.469	17.2
108	T	Di-n-octylphthalate	L	ug/ml	5.0	4.484	-10.3	1.00	1.277	27.7

Calibration Correlation Report

		COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
36	T	Benzoic Acid	Linear	0.995703	0.000000	0.264821	-0.0893541
47	T	2-Nitroaniline	Linear	0.997012	0.000000	0.232769	-0.0325425
65	T	2,4-Dinitrophenol	Linear	0.993518	0.000000	0.208279	-0.0659172
70	T	2,3,4,6-Tetrachlorophenol	Linear	0.997944	0.000000	0.353053	-0.0209881
75	T	4,6-Dinitro-o-cresol	Linear	0.995163	0.000000	0.259809	-0.0651679
78	S	2,4,6-Tribromophenol	Linear	0.994747	0.000000	0.164734	-0.0103174
81	T	Pentachlorophenol	Linear	0.993234	0.000000	0.262992	-0.049327
86	T	Atrazine	Linear F	0.997349	0.000000	0.350249	0
93	T	Benzidine	Linear	0.997132	0.000000	0.889413	-0.206149
96	T	Butyl benzyl phthalate	Linear	0.994300	0.000000	0.588916	-0.102388
101	T	Parathion	Linear	0.994272	0.000000	0.115093	-0.0425512
102	T	3,3'-Dimethylbenzidine	Linear	0.997310	0.000000	0.734101	-0.266987
107	T	Bis(2-ethylhexyl)phthalate	Quadratic	0.999102	0.015847	0.884742	-0.0461474
108	T	Di-n-octylphthalate	Linear	0.996095	0.000000	1.73353	-0.318912

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/04/23 21:57		
Lab File ID	: ABN1204N	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1859679-3	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
n-Nitrosodimethylamine	0.728	0.755	-	-3.7	20	110	0
Pyridine	1.296	1.405	-	-8.4	20	112	0
2-Fluorophenol	1.08	1.126	-	-4.3	20	106	0
Aniline	1.802	1.852	-	-2.8	20	105	0
2-Chlorophenol	1.192	1.249	-	-4.8	20	110	0
Phenol-d6	1.36	1.408	-	-3.5	20	108	0
Phenol	1.458	1.555	-	-6.7	20	111	0
Bis(2-chloroethyl)ether	1.209	1.225	-	-1.3	20	105	0
1,3-Dichlorobenzene	1.438	1.503	-	-4.5	20	112	0
1,4-Dichlorobenzene	1.47	1.521	-	-3.5	20	111	0
1,2-Dichlorobenzene	1.398	1.44	-	-3	20	109	0
Benzyl alcohol	0.952	0.938	-	1.5	20	101	0
Bis(2-chloroisopropyl)ethe	2.449	2.074	-	15.3	20	89	0
2-Methylphenol	1.039	1.078	-	-3.8	20	106	0
Hexachloroethane	0.573	0.56	-	2.3	20	105	0
n-Nitrosodi-n-propylamine	0.894	0.845	-	5.5	20	100	0
3-Methylphenol/4-Methylphe	1.118	1.141	-	-2.1	20	106	0
Nitrobenzene-d5	1.288	1.245	-	3.3	20	101	0
Nitrobenzene	1.324	1.284	-	3	20	102	0
Isophorone	2.322	2.187	-	5.8	20	98	0
2-Nitrophenol	0.61	0.629	-	-3.1	20	113	0
2,4-Dimethylphenol	1.205	1.21	-	-0.4	20	103	0
Bis(2-chloroethoxy)methane	1.603	1.569	-	2.1	20	103	0
2,4-Dichlorophenol	1.079	1.118	-	-3.6	20	109	0
1,2,4-Trichlorobenzene	1.267	1.259	-	0.6	20	109	0
IS1_Naphthalene-d8	1	1	-	0	20	99	0
Naphthalene	1.004	1.002	-	0.2	20	103	0
Benzoic Acid	5	4.647	-	7.1	20	102	0
4-Chloroaniline	0.137	0.127	-	7.3	20	91	0
Hexachlorobutadiene	0.199	0.206	-	-3.5	20	108	0
p-Chloro-m-cresol	0.279	0.283	-	-1.4	20	106	0
2-Methylnaphthalene	0.668	0.662	-	0.9	20	101	0
1-Methylnaphthalene	0.236	0.228	-	3.4	20	100	0
Hexachlorocyclopentadiene	0.223	0.257	-	-15.2	20	120	0
2,4,6-Trichlorophenol	0.21	0.235	-	-11.9	20	112	0
2,4,5-Trichlorophenol	0.228	0.246	-	-7.9	20	108	0
2-Fluorobiphenyl	0.815	0.84	-	-3.1	20	105	0
2-Chloronaphthalene	0.685	0.717	-	-4.7	20	107	0
2-Nitroaniline	5	4.461	-	10.8	20	98	0
1,4-Dinitrobenzene	0.099	0.096	-	3	20	104	0
1,3-Dinitrobenzene	0.113	0.113	-	0	20	105	0
Dimethyl phthalate	0.814	0.812	-	0.2	20	99	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/04/23 21:57		
Lab File ID	: ABN1204N	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1859679-3	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.107	1.101	-	0.5	20	100	0
2,6-Dinitrotoluene	0.167	0.166	-	0.6	20	100	0
1,2-Dinitrobenzene	0.073	0.076	-	-4.1	20	109	0
IS1_Acenaphthene-d10	1	1	-	0	20	94	0
3-Nitroaniline	0.306	0.297	-	2.9	20	97	0
Acenaphthene	1.115	1.151	-	-3.2	20	106	0
2,4-Dinitrophenol	5	5.484	-	-9.7	20	120	0
Dibenzofuran	1.672	1.806	-	-8	20	109	0
2,4-Dinitrotoluene	0.395	0.402	-	-1.8	20	100	0
4-Nitrophenol	0.308	0.246	-	20.1*	20	80	0
2,3,5,6-Tetrachlorophenol	0.307	0.372	-	-21.2*	20	118	0
2,3,4,6-Tetrachlorophenol	5	5.435	-	-8.7	20	114	0
Diethyl phthalate	1.338	1.374	-	-2.7	20	100	0
Fluorene	1.297	1.395	-	-7.6	20	108	0
4-Chlorophenyl phenyl ethe	0.663	0.72	-	-8.6	20	112	0
4-Nitroaniline	0.304	0.308	-	-1.3	20	99	0
4,6-Dinitro-o-cresol	5	5.697	-	-13.9	20	123	0
NDPA/DPA	1.09	1.204	-	-10.5	20	109	0
Azobenzene	1.322	1.292	-	2.3	20	97	0
2,4,6-Tribromophenol	5	5.259	-	-5.2	20	116	0
4-Bromophenyl phenyl ether	0.352	0.405	-	-15.1	20	117	0
Hexachlorobenzene	0.37	0.407	-	-10	20	112	0
Pentachlorophenol	5	5.461	-	-9.2	20	121	0
IS1_Phenanthrene-d10	1	1	-	0	20	105	0
Phenanthrene	1.068	1.029	-	3.7	20	108	0
Anthracene	1.052	1.016	-	3.4	20	104	0
Carbazole	0.921	0.9	-	2.3	20	104	0
Di-n-butylphthalate	1.16	1.063	-	8.4	20	102	0
Fluoranthene	1.197	1.184	-	1.1	20	107	0
Benzidine	5	4.661	-	6.8	20	106	0
Pyrene	1.273	1.251	-	1.7	20	104	0
4-Terphenyl-d14	0.819	0.893	-	-9	20	118	0
Butyl benzyl phthalate	5	4.532	-	9.4	20	112	0
IS1_Chrysene-d12	1	1	-	0	20	122	0
Benzo(a)anthracene	1.358	1.319	-	2.9	20	125	0
3,3'-Dichlorobenzidine	0.462	0.435	-	5.8	20	124	0
Chrysene	1.352	1.231	-	8.9	20	118	0
Bis(2-ethylhexyl)phthalate	5	4.645	-	7.1	20	121	0
Di-n-octylphthalate	5	4.322	-	13.6	20	117	0
Benzo(b)fluoranthene	1.265	1.239	-	2.1	20	123	0
Benzo(k)fluoranthene	1.222	1.173	-	4	20	111	0
Benzo(a)pyrene	1.086	1.022	-	5.9	20	114	0
IS1_Perylene-d12	1	1	-	0	20	116	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 12/04/23 21:57	
Lab File ID	: ABN1204N		**Init. Calib. Date(s)**	: 10/26/23	10/27/23
Sample No	: WG1859679-3		**Init. Calib. Times**	: 00:22	13:53
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.88	0.9	-	-2.3	20	126	0
Dibenzo(a,h)anthracene	0.987	1	-	-1.3	20	120	0
Benzo(ghi)perylene	0.995	1.007	-	-1.2	20	118	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/04/23 22:24		
Lab File ID	: AP91204N	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1859679-4	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	104	0
Benzaldehyde	0.929	0.951	-	-2.4	20	100	0
Acetophenone	1.694	1.656	-	2.2	20	100	0
m-Toluidine	1.56	1.584	-	-1.5	20	101	0
2-Chloroaniline	1.486	1.48	-	0.4	20	100	0
IS2_Naphthalene-d8	1	1	-	0	20	105	0
a-Terpineol	0.334	0.28	-	16.2	20	86	0
3-Chloroaniline	0.157	0.136	-	13.4	20	89	0
2,6-Dichlorophenol	0.265	0.274	-	-3.4	20	106	0
1-chloro-2-nitrobenzene	0.143	0.13	-	9.1	20	97	0
Caprolactam	0.193	0.138	-	28.5*	20	80	0
1,2,4,5-Tetrachlorobenzene	0.331	0.363	-	-9.7	20	111	0
Biphenyl	0.813	0.831	-	-2.2	20	103	0
IS2_Acenaphthene-d10	1	1	-	0	20	101	0
Dichloran	0.158	0.144	-	8.9	20	105	0
Pentachloronitrobenzene	0.161	0.158	-	1.9	20	105	0
IS2_Phenanthrene-d10	1	1	-	0	20	111	0
Diphenamid	0.448	0.403	-	10	20	98	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 12/04/23 22:51	
Lab File ID	: ADP1204N		**Init. Calib. Date(s)**	: 10/26/23	10/27/23
Sample No	: WG1859679-5		**Init. Calib. Times**	: 00:22	13:53
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	95	0
n-Decane	1.71	1.478	-	13.6	20	84	0
IS3_Acenaphthene-d10	1	1	-	0	20	96	0
Atrazine	5	4.558	-	8.8	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	104	0
n-Octadecane	0.553	0.414	-	25.1*	20	78	0
Parathion	5	3.985	-	20.3*	20	88	0
3,3'-Dimethylbenzidine	5	4.799	-	4	20	116	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 12/04/23 23:25		
Lab File ID	: ABN1204NA	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1859682-3	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	82	0
n-Nitrosodimethylamine	0.677	0.75	-	-10.8	20	99	0
Pyridine	1.151	1.321	-	-14.8	20	103	0
2-Fluorophenol	1.116	1.058	-	5.2	20	88	0
Aniline	1.893	1.734	-	8.4	20	83	0
2-Chlorophenol	1.274	1.185	-	7	20	82	0
Phenol-d6	1.437	1.369	-	4.7	20	85	0
Phenol	1.521	1.445	-	5	20	87	0
Bis(2-chloroethyl)ether	1.222	1.147	-	6.1	20	85	0
1,3-Dichlorobenzene	1.461	1.329	-	9	20	82	0
1,4-Dichlorobenzene	1.503	1.348	-	10.3	20	83	0
1,2-Dichlorobenzene	1.431	1.273	-	11	20	81	0
Benzyl alcohol	1.074	1.033	-	3.8	20	86	0
Bis(2-chloroisopropyl)ethe	1.8	1.86	-	-3.3	20	93	0
2-Methylphenol	1.138	1.05	-	7.7	20	85	0
Hexachloroethane	0.586	0.552	-	5.8	20	85	0
n-Nitrosodi-n-propylamine	0.923	0.874	-	5.3	20	87	0
3-Methylphenol/4-Methylphe	1.193	1.085	-	9.1	20	82	0
Nitrobenzene-d5	1.303	1.347	-	-3.4	20	96	0
Nitrobenzene	1.295	1.346	-	-3.9	20	93	0
Isophorone	2.478	2.312	-	6.7	20	85	0
2-Nitrophenol	0.518	0.6	-	-15.8	20	106	0
2,4-Dimethylphenol	1.281	1.154	-	9.9	20	79	0
Bis(2-chloroethoxy)methane	1.552	1.507	-	2.9	20	88	0
2,4-Dichlorophenol	1.076	1.036	-	3.7	20	84	0
1,2,4-Trichlorobenzene	1.235	1.106	-	10.4	20	83	0
IS1_Naphthalene-d8	1	1	-	0	20	82	0
Naphthalene	1.008	0.909	-	9.8	20	83	0
Benzoic Acid	5	5.77	-	-15.4	20	116	0
4-Chloroaniline	0.132	0.126	-	4.5	20	87	0
Hexachlorobutadiene	0.206	0.172	-	16.5	20	78	0
p-Chloro-m-cresol	0.291	0.273	-	6.2	20	83	0
2-Methylnaphthalene	0.642	0.561	-	12.6	20	80	0
1-Methylnaphthalene	0.241	0.225	-	6.6	20	84	0
Hexachlorocyclopentadiene	0.219	0.207	-	5.5	20	87	0
2,4,6-Trichlorophenol	0.209	0.188	-	10	20	84	0
2,4,5-Trichlorophenol	0.224	0.205	-	8.5	20	86	0
2-Fluorobiphenyl	0.764	0.649	-	15.1	20	79	0
2-Chloronaphthalene	0.669	0.599	-	10.5	20	82	0
2-Nitroaniline	5	4.776	-	4.5	20	92	0
1,4-Dinitrobenzene	5	5.269	-	-5.4	20	110	0
1,3-Dinitrobenzene	5	5.308	-	-6.2	20	104	0
Dimethyl phthalate	0.787	0.72	-	8.5	20	83	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 12/04/23 23:25		
Lab File ID	: ABN1204NA	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1859682-3	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.077	0.956	-	11.2	20	83	0
2,6-Dinitrotoluene	5	5.043	-	-0.9	20	99	0
1,2-Dinitrobenzene	0.063	0.065	-	-3.2	20	95	0
IS1_Acenaphthene-d10	1	1	-	0	20	85	0
3-Nitroaniline	0.286	0.293	-	-2.4	20	95	0
Acenaphthene	1.131	0.959	-	15.2	20	81	0
2,4-Dinitrophenol	5	6.199	-	-24*	20	128	0
Dibenzofuran	1.69	1.468	-	13.1	20	82	0
2,4-Dinitrotoluene	5	4.969	-	0.6	20	100	0
4-Nitrophenol	5	5.658	-	-13.2	20	116	0
2,3,5,6-Tetrachlorophenol	0.325	0.295	-	9.2	20	84	0
2,3,4,6-Tetrachlorophenol	0.337	0.291	-	13.6	20	80	0
Diethyl phthalate	1.415	1.32	-	6.7	20	86	0
Fluorene	1.336	1.166	-	12.7	20	82	0
4-Chlorophenyl phenyl ethe	0.637	0.534	-	16.2	20	80	0
4-Nitroaniline	0.289	0.285	-	1.4	20	87	0
4,6-Dinitro-o-cresol	5	6.143	-	-22.9*	20	139	0
NDPA/DPA	1.124	0.961	-	14.5	20	79	0
Azobenzene	1.319	1.234	-	6.4	20	87	0
2,4,6-Tribromophenol	0.184	0.163	-	11.4	20	81	0
4-Bromophenyl phenyl ether	0.371	0.31	-	16.4	20	79	0
Hexachlorobenzene	0.432	0.344	-	20.4*	20	77	0
Pentachlorophenol	5	4.204	-	15.9	20	83	0
IS1_Phenanthrene-d10	1	1	-	0	20	87	0
Phenanthrene	1.089	0.897	-	17.6	20	80	0
Anthracene	1.084	0.897	-	17.3	20	79	0
Carbazole	0.991	0.853	-	13.9	20	81	0
Di-n-butylphthalate	1.269	1.131	-	10.9	20	84	0
Fluoranthene	1.165	0.96	-	17.6	20	80	0
Benzidine	0.77	0.598	-	22.3*	20	74	0
Pyrene	1.233	1.032	-	16.3	20	81	0
4-Terphenyl-d14	0.877	0.733	-	16.4	20	80	0
Butyl benzyl phthalate	0.541	0.512	-	5.4	20	90	0
IS1_Chrysene-d12	1	1	-	0	20	83	0
Benzo(a)anthracene	1.326	1.111	-	16.2	20	78	0
3,3'-Dichlorobenzidine	0.472	0.409	-	13.3	20	77	0
Chrysene	1.231	1.046	-	15	20	79	0
Bis(2-ethylhexyl)phthalate	0.889	0.944	-	-6.2	20	95	0
Di-n-octylphthalate	1.499	1.545	-	-3.1	20	91	0
Benzo(b)fluoranthene	1.266	1.188	-	6.2	20	88	0
Benzo(k)fluoranthene	1.214	1.002	-	17.5	20	72	0
Benzo(a)pyrene	1.083	0.951	-	12.2	20	80	0
IS1_Perylene-d12	1	1	-	0	20	82	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV106		**Calibration Date**	: 12/04/23 23:25	
Lab File ID	: ABN1204NA		**Init. Calib. Date(s)**	: 09/02/23	09/03/23
Sample No	: WG1859682-3		**Init. Calib. Times**	: 12:13	00:52
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.935	0.809	-	13.5	20	80	0
Dibenzo(a,h)anthracene	0.999	0.904	-	9.5	20	81	0
Benzo(ghi)perylene	0.991	0.9	-	9.2	20	82	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 12/04/23 23:49		
Lab File ID	: AP91204NA	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1859682-4	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	95	0
Benzaldehyde	0.928	1.078	-	-16.2	20	79	0
Acetophenone	1.994	1.917	-	3.9	20	70	0
m-Toluidine	1.55	1.8	-	-16.1	20	78	0
2-Chloroaniline	1.67	1.602	-	4.1	20	69	0
IS2_Naphthalene-d8	1	1	-	0	20	100	0
a-Terpineol	0.289	0.309	-	-6.9	20	82	0
3-Chloroaniline	0.15	0.156	-	-4	20	77	0
2,6-Dichlorophenol	0.277	0.275	-	0.7	20	73	0
1-chloro-2-nitrobenzene	0.131	0.144	-	-9.9	20	82	0
Caprolactam	0.147	0.162	-	-10.2	20	81	0
1,2,4,5-Tetrachlorobenzene	0.348	0.299	-	14.1	20	67	0
Biphenyl	0.856	0.772	-	9.8	20	69	0
IS2_Acenaphthene-d10	1	1	-	0	20	108	0
Dichloran	5	5.549	-	-11	20	95	0
Pentachloronitrobenzene	5	5.613	-	-12.3	20	92	0
IS2_Phenanthrene-d10	1	1	-	0	20	109	0
Diphenamid	0.508	0.469	-	7.7	20	73	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV106		**Calibration Date**	: 12/05/23 00:13	
Lab File ID	: ADP1204NA		**Init. Calib. Date(s)**	: 09/02/23	09/03/23
Sample No	: WG1859682-5		**Init. Calib. Times**	: 12:13	00:52
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	97	0
n-Decane	1.347	1.434	-	-6.5	20	105	0
IS3_Acenaphthene-d10	1	1	-	0	20	110	0
Atrazine	0.345	0.322	-	6.7	20	104	0
IS3_Phenanthrene-d10	1	1	-	0	20	116	0
n-Octadecane	0.46	0.501	-	-8.9	20	124	0
Parathion	0.094	0.115	-	-22.3*	20	156	0
3,3'-Dimethylbenzidine	5	4.011	-	19.8	20	99	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/06/23 07:03		
Lab File ID	: ABN1206	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1860349-3	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
n-Nitrosodimethylamine	0.728	0.734	-	-0.8	20	107	0
Pyridine	1.296	1.27	-	2	20	102	0
2-Fluorophenol	1.08	1.047	-	3.1	20	99	0
Aniline	1.802	1.724	-	4.3	20	98	0
2-Chlorophenol	1.192	1.138	-	4.5	20	101	0
Phenol-d6	1.36	1.307	-	3.9	20	100	0
Phenol	1.458	1.455	-	0.2	20	104	0
Bis(2-chloroethyl)ether	1.209	1.134	-	6.2	20	97	0
1,3-Dichlorobenzene	1.438	1.361	-	5.4	20	102	0
1,4-Dichlorobenzene	1.47	1.378	-	6.3	20	101	0
1,2-Dichlorobenzene	1.398	1.328	-	5	20	101	0
Benzyl alcohol	0.952	0.876	-	8	20	95	0
Bis(2-chloroisopropyl)ethe	2.449	1.883	-	23.1*	20	81	0
2-Methylphenol	1.039	0.984	-	5.3	20	97	0
Hexachloroethane	0.573	0.502	-	12.4	20	95	0
n-Nitrosodi-n-propylamine	0.894	0.774	-	13.4	20	91	0
3-Methylphenol/4-Methylphe	1.118	1.045	-	6.5	20	97	0
Nitrobenzene-d5	1.288	1.171	-	9.1	20	96	0
Nitrobenzene	1.324	1.197	-	9.6	20	96	0
Isophorone	2.322	2.07	-	10.9	20	93	0
2-Nitrophenol	0.61	0.581	-	4.8	20	105	0
2,4-Dimethylphenol	1.205	1.09	-	9.5	20	93	0
Bis(2-chloroethoxy)methane	1.603	1.41	-	12	20	93	0
2,4-Dichlorophenol	1.079	1.013	-	6.1	20	99	0
1,2,4-Trichlorobenzene	1.267	1.156	-	8.8	20	101	0
IS1_Naphthalene-d8	1	1	-	0	20	101	0
Naphthalene	1.004	0.912	-	9.2	20	96	0
Benzoic Acid	5	4.274	-	14.5	20	92	0
4-Chloroaniline	0.137	0.116	-	15.3	20	85	0
Hexachlorobutadiene	0.199	0.184	-	7.5	20	99	0
p-Chloro-m-cresol	0.279	0.255	-	8.6	20	98	0
2-Methylnaphthalene	0.668	0.596	-	10.8	20	92	0
1-Methylnaphthalene	0.236	0.199	-	15.7	20	89	0
Hexachlorocyclopentadiene	0.223	0.214	-	4	20	102	0
2,4,6-Trichlorophenol	0.21	0.198	-	5.7	20	96	0
2,4,5-Trichlorophenol	0.228	0.217	-	4.8	20	98	0
2-Fluorobiphenyl	0.815	0.715	-	12.3	20	92	0
2-Chloronaphthalene	0.685	0.62	-	9.5	20	94	0
2-Nitroaniline	5	4.12	-	17.6	20	91	0
1,4-Dinitrobenzene	0.099	0.086	-	13.1	20	95	0
1,3-Dinitrobenzene	0.113	0.1	-	11.5	20	95	0
Dimethyl phthalate	0.814	0.707	-	13.1	20	88	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/06/23 07:03		
Lab File ID	: ABN1206	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1860349-3	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.107	0.979	-	11.6	20	91	0
2,6-Dinitrotoluene	0.167	0.146	-	12.6	20	89	0
1,2-Dinitrobenzene	0.073	0.067	-	8.2	20	98	0
IS1_Acenaphthene-d10	1	1	-	0	20	97	0
3-Nitroaniline	0.306	0.272	-	11.1	20	91	0
Acenaphthene	1.115	1.003	-	10	20	95	0
2,4-Dinitrophenol	5	4.893	-	2.1	20	107	0
Dibenzofuran	1.672	1.541	-	7.8	20	96	0
2,4-Dinitrotoluene	0.395	0.348	-	11.9	20	89	0
4-Nitrophenol	0.308	0.221	-	28.2*	20	74	0
2,3,5,6-Tetrachlorophenol	0.307	0.306	-	0.3	20	100	0
2,3,4,6-Tetrachlorophenol	5	4.575	-	8.5	20	98	0
Diethyl phthalate	1.338	1.124	-	16	20	84	0
Fluorene	1.297	1.169	-	9.9	20	93	0
4-Chlorophenyl phenyl ethe	0.663	0.586	-	11.6	20	94	0
4-Nitroaniline	0.304	0.274	-	9.9	20	91	0
4,6-Dinitro-o-cresol	5	4.971	-	0.6	20	107	0
NDPA/DPA	1.09	0.998	-	8.4	20	93	0
Azobenzene	1.322	1.129	-	14.6	20	87	0
2,4,6-Tribromophenol	5	3.927	-	21.5*	20	88	0
4-Bromophenyl phenyl ether	0.352	0.306	-	13.1	20	91	0
Hexachlorobenzene	0.37	0.301	-	18.6	20	85	0
Pentachlorophenol	5	4.415	-	11.7	20	97	0
IS1_Phenanthrene-d10	1	1	-	0	20	100	0
Phenanthrene	1.068	0.908	-	15	20	91	0
Anthracene	1.052	0.922	-	12.4	20	90	0
Carbazole	0.921	0.817	-	11.3	20	89	0
Di-n-butylphthalate	1.16	0.928	-	20	20	85	0
Fluoranthene	1.197	1.019	-	14.9	20	88	0
Benzidine	5	4.281	-	14.4	20	90	0
Pyrene	1.273	1.105	-	13.2	20	88	0
4-Terphenyl-d14	0.819	0.703	-	14.2	20	88	0
Butyl benzyl phthalate	5	3.886	-	22.3*	20	88	0
IS1_Chrysene-d12	1	1	-	0	20	103	0
Benzo(a)anthracene	1.358	1.2	-	11.6	20	96	0
3,3'-Dichlorobenzidine	0.462	0.391	-	15.4	20	94	0
Chrysene	1.352	1.148	-	15.1	20	92	0
Bis(2-ethylhexyl)phthalate	5	3.954	-	20.9*	20	86	0
Di-n-octylphthalate	5	3.792	-	24.2*	20	84	0
Benzo(b)fluoranthene	1.265	1.079	-	14.7	20	90	0
Benzo(k)fluoranthene	1.222	1.075	-	12	20	85	0
Benzo(a)pyrene	1.086	0.938	-	13.6	20	88	0
IS1_Perylene-d12	1	1	-	0	20	98	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 12/06/23 07:03	
Lab File ID	: ABN1206		**Init. Calib. Date(s)**	: 10/26/23	10/27/23
Sample No	: WG1860349-3		**Init. Calib. Times**	: 00:22	13:53
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.88	0.829	-	5.8	20	98	0
Dibenzo(a,h)anthracene	0.987	0.921	-	6.7	20	93	0
Benzo(ghi)perylene	0.995	0.925	-	7	20	92	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/06/23 07:29		
Lab File ID	: AP91206	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1860349-4	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
Benzaldehyde	0.929	1.027	-	-10.5	20	107	0
Acetophenone	1.694	1.674	-	1.2	20	101	0
m-Toluidine	1.56	1.643	-	-5.3	20	104	0
2-Chloroaniline	1.486	1.494	-	-0.5	20	101	0
IS2_Naphthalene-d8	1	1	-	0	20	102	0
a-Terpineol	0.334	0.272	-	18.6	20	82	0
3-Chloroaniline	0.157	0.139	-	11.5	20	89	0
2,6-Dichlorophenol	0.265	0.267	-	-0.8	20	101	0
1-chloro-2-nitrobenzene	0.143	0.133	-	7	20	96	0
Caprolactam	0.193	0.143	-	25.9*	20	80	0
1,2,4,5-Tetrachlorobenzene	0.331	0.346	-	-4.5	20	103	0
Biphenyl	0.813	0.819	-	-0.7	20	99	0
IS2_Acenaphthene-d10	1	1	-	0	20	96	0
Dichloran	0.158	0.132	-	16.5	20	92	0
Pentachloronitrobenzene	0.161	0.139	-	13.7	20	88	0
IS2_Phenanthrene-d10	1	1	-	0	20	96	0
Diphenamid	0.448	0.382	-	14.7	20	80	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 12/06/23 07:55	
Lab File ID	: ADP1206		**Init. Calib. Date(s)**	: 10/26/23	10/27/23
Sample No	: WG1860349-5		**Init. Calib. Times**	: 00:22	13:53
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	115	0
n-Decane	1.71	1.469	-	14.1	20	100	0
IS3_Acenaphthene-d10	1	1	-	0	20	111	0
Atrazine	5	3.748	-	25*	20	97	0
IS3_Phenanthrene-d10	1	1	-	0	20	105	0
n-Octadecane	0.553	0.407	-	26.4*	20	78	0
Parathion	5	4.017	-	19.7	20	91	0
3,3'-Dimethylbenzidine	5	4.333	-	13.3	20	102	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\231204nlvi\
Data File : ABN1204n.D
Acq On : 4 Dec 2023 9:57 pm
Operator : SV107:sz
Sample : wg1859679-3,32,,ABN LVI CCV Lot #10166
Misc : wg1859679,,ical20485
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 04 22:26:52 2023
Quant Method : I:\8270\SV107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 16:32:26 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	100	0.00
2	t	n-Nitrosodimethylamine		0.728	0.755	-3.7	110	0.00
3	t	Pyridine		1.296	1.405	-8.4	112	0.00
4	S	2-Fluorophenol		1.080	1.126	-4.3	106	0.00
5	T	Aniline		1.802	1.852	-2.8	105	0.00
6	t	2-Chlorophenol		1.192	1.249	-4.8	110	0.00
7	S	Phenol-d6		1.360	1.408	-3.5	108	0.00
8	T	Phenol		1.458	1.555	-6.7	111	0.00
9	T	Bis(2-chloroethyl)ether		1.209	1.225	-1.3	105	0.00
10	T	1,3-Dichlorobenzene		1.438	1.503	-4.5	112	0.00
11	T	1,4-Dichlorobenzene		1.470	1.521	-3.5	111	0.00
12	T	1,2-Dichlorobenzene		1.398	1.440	-3.0	109	0.00
13	t	Benzyl alcohol		0.952	0.938	1.5	101	0.00
14	T	Bis(2-chloroisopropyl)ether		2.449	2.074	15.3	89	0.00
15	T	2-Methylphenol		1.039	1.078	-3.8	106	0.00
16	T	Hexachloroethane		0.573	0.560	2.3	105	0.00
17	T	n-Nitrosodi-n-propylamine		0.894	0.845	5.5	100	0.00
18	T	3-Methylphenol/4-Methylphen		1.118	1.141	-2.1	106	0.00
19	S	Nitrobenzene-d5		1.288	1.245	3.3	101	0.00
20	T	Nitrobenzene		1.324	1.284	3.0	102	0.00
21	T	Isophorone		2.322	2.187	5.8	98	0.00
22	T	2-Nitrophenol		0.610	0.629	-3.1	113	0.00
23	T	2,4-Dimethylphenol		1.205	1.210	-0.4	103	0.00
24	T	Bis(2-chloroethoxy)methane		1.603	1.569	2.1	103	0.00
25	T	2,4-Dichlorophenol		1.079	1.118	-3.6	109	0.00
26	T	1,2,4-Trichlorobenzene		1.267	1.259	0.6	109	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	99	0.00
35	T	Naphthalene		1.004	1.002	0.2	103	0.00
36	T	Benzoic Acid	*	5.000	4.647	7.1	102	0.00
37	T	4-Chloroaniline		0.137	0.127	7.3	91	0.00
38	T	Hexachlorobutadiene		0.199	0.206	-3.5	108	0.00
39	T	p-Chloro-m-cresol		0.279	0.283	-1.4	106	0.00
40	T	2-Methylnaphthalene		0.668	0.662	0.9	101	0.00
41	T	1-Methylnaphthalene		0.236	0.228	3.4	100	0.00
42	T	Hexachlorocyclopentadiene		0.223	0.257	-15.2	120	0.00
43	T	2,4,6-Trichlorophenol		0.210	0.235	-11.9	112	0.00
44	T	2,4,5-Trichlorophenol		0.228	0.246	-7.9	108	0.00
45	S	2-Fluorobiphenyl		0.815	0.840	-3.1	105	0.00

Data Path : I:\8270\SV107\231204nlvi\
Data File : ABN1204n.D
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Operator : SV107:sz
Sample : wg1859679-3,32,,ABN LVI CCV Lot #10166
Misc : wg1859679,,ical20485
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 04 22:26:52 2023
Quant Method : I:\8270\SV107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 16:32:26 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.685	0.717	-4.7	107	0.00
47	T	2-Nitroaniline	*	5.000	4.461	10.8	98	0.00
48	T	1,4-Dinitrobenzene		0.099	0.096	3.0	104	0.00
49	T	1,3-Dinitrobenzene		0.113	0.113	0.0	105	0.00
50	T	Dimethyl phthalate		0.814	0.812	0.2	99	0.00
51	T	Acenaphthylene		1.107	1.101	0.5	100	0.00
52	T	2,6-Dinitrotoluene		0.167	0.166	0.6	100	0.00
53	T	1,2-Dinitrobenzene		0.073	0.076	-4.1	109	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	94	0.00
63	T	3-Nitroaniline		0.306	0.297	2.9	97	0.00
64	T	Acenaphthene		1.115	1.151	-3.2	106	0.00
65	T	2,4-Dinitrophenol	*	5.000	5.484	-9.7	120	0.00
66	T	Dibenzofuran		1.672	1.806	-8.0	109	0.00
67	T	2,4-Dinitrotoluene		0.395	0.402	-1.8	100	0.00
68	T	4-Nitrophenol		0.308	0.246	20.1#	80	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.307	0.372	-21.2#	118	0.00
70	T	2,3,4,6-Tetrachlorophenol	*	5.000	5.435	-8.7	114	0.00
71	T	Diethyl phthalate		1.338	1.374	-2.7	100	0.00
72	T	Fluorene		1.297	1.395	-7.6	108	0.00
73	T	4-Chlorophenyl phenyl ether		0.663	0.720	-8.6	112	0.00
74	T	4-Nitroaniline		0.304	0.308	-1.3	99	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	5.697	-13.9	123	0.00
76	T	NDPA/DPA		1.090	1.204	-10.5	109	0.00
77	T	Azobenzene		1.322	1.292	2.3	97	0.00
78	S	2,4,6-Tribromophenol	*	5.000	5.259	-5.2	116	0.00
79	T	4-Bromophenyl phenyl ether		0.352	0.405	-15.1	117	0.00
80	T	Hexachlorobenzene		0.370	0.407	-10.0	112	0.00
81	T	Pentachlorophenol	*	5.000	5.461	-9.2	121	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
88	T	Phenanthrene		1.068	1.029	3.7	108	0.00
89	T	Anthracene		1.052	1.016	3.4	104	0.00
90	T	Carbazole		0.921	0.900	2.3	104	0.00
91	T	Di-n-butylphthalate		1.160	1.063	8.4	102	0.00
92	T	Fluoranthene		1.197	1.184	1.1	107	0.00
93	T	Benzidine	*	5.000	4.661	6.8	106	0.00
94	T	Pyrene		1.273	1.251	1.7	104	0.00
95	S	4-Terphenyl-d14		0.819	0.893	-9.0	118	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\231204nlvi\
Data File : ABN1204n.D
Acq On : 4 Dec 2023 9:57 pm
Operator : SV107:sz
Sample : wg1859679-3,32,,ABN LVI CCV Lot #10166
Misc : wg1859679,,ical20485
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 04 22:26:52 2023
Quant Method : I:\8270\SV107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 16:32:26 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	4.532	9.4	112	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	122	0.00
104	T	Benzo(a)anthracene		1.358	1.319	2.9	125	0.00
105	T	3,3'-Dichlorobenzidine		0.462	0.435	5.8	124	0.00
106	T	Chrysene		1.352	1.231	8.9	118	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	4.645	7.1	121	0.00
108	T	Di-n-octylphthalate	*	5.000	4.322	13.6	117	0.00
109	T	Benzo(b)fluoranthene		1.265	1.239	2.1	123	0.00
110	T	Benzo(k)fluoranthene		1.222	1.173	4.0	111	0.00
111	T	Benzo(a)pyrene		1.086	1.022	5.9	114	0.00
112	I	IS1_Perylene-d12		1.000	1.000	0.0	116	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.880	0.900	-2.3	126	0.00
114	T	Dibenzo(a,h)anthracene		0.987	1.000	-1.3	120	0.00
115	T	Benzo(ghi)perylene		0.995	1.007	-1.2	118	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231204nlvi\
Data File : ABN1204n.D
Acq On : 4 Dec 2023 9:57 pm
Operator : SV107:sz
Sample : wg1859679-3,32,,ABN LVI CCV Lot #10166
Misc : wg1859679,,ical20485
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 04 22:26:52 2023
Quant Method : I:\8270\SV107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 16:32:26 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.457	152	27149	4.000	ug/ml	0.00
34) IS1_Naphthalene-d8	7.881	136	99405	4.000	ug/ml	0.00
62) IS1_Acenaphthene-d10	9.633	164	58166	4.000	ug/ml	0.00
87) IS1_Phenanthrene-d10	11.069	188	124583	4.000	ug/ml	0.00
103) IS1_Chrysene-d12	13.692	240	118560	4.000	ug/ml	0.00
112) IS1_Perylene-d12	15.151	264	119507	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.569	112	38229	5.216	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 104.32%			
7) Phenol-d6	6.087	99	47785	5.178	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 103.56%			
19) Nitrobenzene-d5	7.110	82	42238	4.831	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 193.24%#			
45) 2-Fluorobiphenyl	8.998	172	104358	5.152	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 206.08%#			
78) 2,4,6-Tribromophenol	10.404	330	11997	5.259	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 105.18%			
95) 4-Terphenyl-d14	12.645	244	139105	5.450	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 218.00%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.140	74	25608	5.181	ug/ml#	60
3) Pyridine	2.175	79	47686	5.419	ug/ml#	65
5) Aniline	6.051	93	62848	5.140	ug/ml	96
6) 2-Chlorophenol	6.198	128	42374	5.238	ug/ml	95
8) Phenol	6.104	94	52787	5.334	ug/ml	94
9) Bis(2-chloroethyl)ether	6.181	93	41573	5.066	ug/ml#	80
10) 1,3-Dichlorobenzene	6.387	146	50998	5.226	ug/ml	98
11) 1,4-Dichlorobenzene	6.481	146	51619	5.173	ug/ml	97
12) 1,2-Dichlorobenzene	6.657	146	48877	5.151	ug/ml	98
13) Benzyl alcohol	6.663	79	31845	4.931	ug/ml	98
14) Bis(2-chloroisopropyl)...	6.845	45	70378	4.235	ug/ml#	65
15) 2-Methylphenol	6.834	108	36581	5.188	ug/ml	98
16) Hexachloroethane	7.045	117	19007	4.886	ug/ml#	63
17) n-Nitrosodi-n-propylamine	6.987	70	28666	4.723	ug/ml#	91
18) 3-Methylphenol/4-Methy...	7.022	108	38708	5.103	ug/ml	98
20) Nitrobenzene	7.134	77	43561	4.846	ug/ml	98
21) Isophorone	7.410	82	74215	4.708	ug/ml	97
22) 2-Nitrophenol	7.487	139	21347	5.160	ug/ml	90

Data Path : I:\8270\SV107\231204nlvi\
Data File : ABN1204n.D
Acq On : 4 Dec 2023 9:57 pm
Operator : SV107:sz
Sample : wg1859679-3,32,,ABN LVI CCV Lot #10166
Misc : wg1859679,,ical20485
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 04 22:26:52 2023
Quant Method : I:\8270\SV107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 16:32:26 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.587	107	41066	5.020	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.681	93	53230	4.891	ug/ml	99
25) 2,4-Dichlorophenol	7.751	162	37928	5.180	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.834	180	42709	4.966	ug/ml	96
35) Naphthalene	7.898	128	124498	4.988	ug/ml	99
36) Benzoic Acid	7.675	105	21700	4.647	ug/ml	95
37) 4-Chloroaniline	7.981	65	15777	4.619	ug/ml	89
38) Hexachlorobutadiene	8.069	225	25631	5.183	ug/ml	98
39) p-Chloro-m-cresol	8.504	107	35149	5.072	ug/ml	100
40) 2-Methylnaphthalene	8.616	142	82219	4.954	ug/ml	97
41) 1-Methylnaphthalene	8.710	115	28386	4.830	ug/ml	98
42) Hexachlorocyclopentadiene	8.792	237	31961	5.774	ug/ml	99
43) 2,4,6-Trichlorophenol	8.910	196	29254	5.593	ug/ml	96
44) 2,4,5-Trichlorophenol	8.939	196	30514	5.376	ug/ml	99
46) 2-Chloronaphthalene	9.092	162	89041	5.228	ug/ml	97
47) 2-Nitroaniline	9.204	138	22571	4.461	ug/ml	91
48) 1,4-Dinitrobenzene	9.339	168	11923	4.842	ug/ml	81
49) 1,3-Dinitrobenzene	9.410	168	13985	4.970	ug/ml#	1
50) Dimethyl phthalate	9.410	163	100920	4.987	ug/ml#	98
51) Acenaphthylene	9.492	152	136795	4.972	ug/ml	99
52) 2,6-Dinitrotoluene	9.451	165	20625	4.970	ug/ml#	80
53) 1,2-Dinitrobenzene	9.492	168	9449	5.187	ug/ml#	1
63) 3-Nitroaniline	9.604	138	21592	4.858	ug/ml#	98
64) Acenaphthene	9.669	154	83702	5.164	ug/ml	93
65) 2,4-Dinitrophenol	9.704	184	12775	5.484	ug/ml#	86
66) Dibenzofuran	9.833	168	131324	5.401	ug/ml	93
67) 2,4-Dinitrotoluene	9.839	165	29242	5.085	ug/ml	93
68) 4-Nitrophenol	9.792	65	17872	3.988	ug/ml	90
69) 2,3,5,6-Tetrachlorophenol	9.928	232	27032	6.063	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	9.969	232	26682	5.435	ug/ml	96
71) Diethyl phthalate	10.098	149	99864	5.134	ug/ml	98
72) Fluorene	10.169	166	101429	5.377	ug/ml	95
73) 4-Chlorophenyl phenyl ...	10.186	204	52372	5.435	ug/ml	89
74) 4-Nitroaniline	10.192	138	22402	5.062	ug/ml	89
75) 4,6-Dinitro-o-cresol	10.228	198	17733	5.697	ug/ml#	63
76) NDPA/DPA	10.304	169	87544	5.522	ug/ml	98
77) Azobenzene	10.333	77	93902	4.886	ug/ml	95
79) 4-Bromophenyl phenyl e...	10.657	248	29443	5.747	ug/ml#	86
80) Hexachlorobenzene	10.704	284	29579	5.502	ug/ml#	87
81) Pentachlorophenol	10.898	266	18015	5.461	ug/ml	97
88) Phenanthrene	11.092	178	160214	4.815	ug/ml	100

Quantitation Report (QT Reviewed)

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QLast Update : Mon Dec 04 16:32:26 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Anthracene	11.139	178	158247	4.828	ug/ml	99
90)	Carbazole	11.304	167	140102	4.884	ug/ml	98
91)	Di-n-butylphthalate	11.692	149	165530	4.583	ug/ml	98
92)	Fluoranthene	12.239	202	184346	4.945	ug/ml#	93
93)	Benzidine	12.392	184	103427	4.661	ug/ml#	95
94)	Pyrene	12.457	202	194798	4.912	ug/ml	98
96)	Butyl benzyl phthalate	13.169	149	70366	4.532	ug/ml	92
104)	Benzo(a)anthracene	13.686	228	195451	4.856	ug/ml	98
105)	3,3'-Dichlorobenzidine	13.686	252	64505	4.713	ug/ml#	98
106)	Chrysene	13.721	228	182443	4.554	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	13.798	149	118877	4.645	ug/ml#	92
108)	Di-n-octylphthalate	14.474	149	184274	4.322	ug/ml#	74
109)	Benzo(b)fluoranthene	14.786	252	183676	4.901	ug/ml#	95
110)	Benzo(k)fluoranthene	14.810	252	173855	4.800	ug/ml#	94
111)	Benzo(a)pyrene	15.098	252	151404	4.705	ug/ml#	95
113)	Indeno(1,2,3-cd)pyrene	16.121	276	134501M6	5.114	ug/mL	
114)	Dibenzo(a,h)anthracene	16.145	278	149421	5.068	ug/ml#	94
115)	Benzo(ghi)perylene	16.374	276	150356	5.060	ug/ml#	91

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

Quantitation Report (QT Reviewed)

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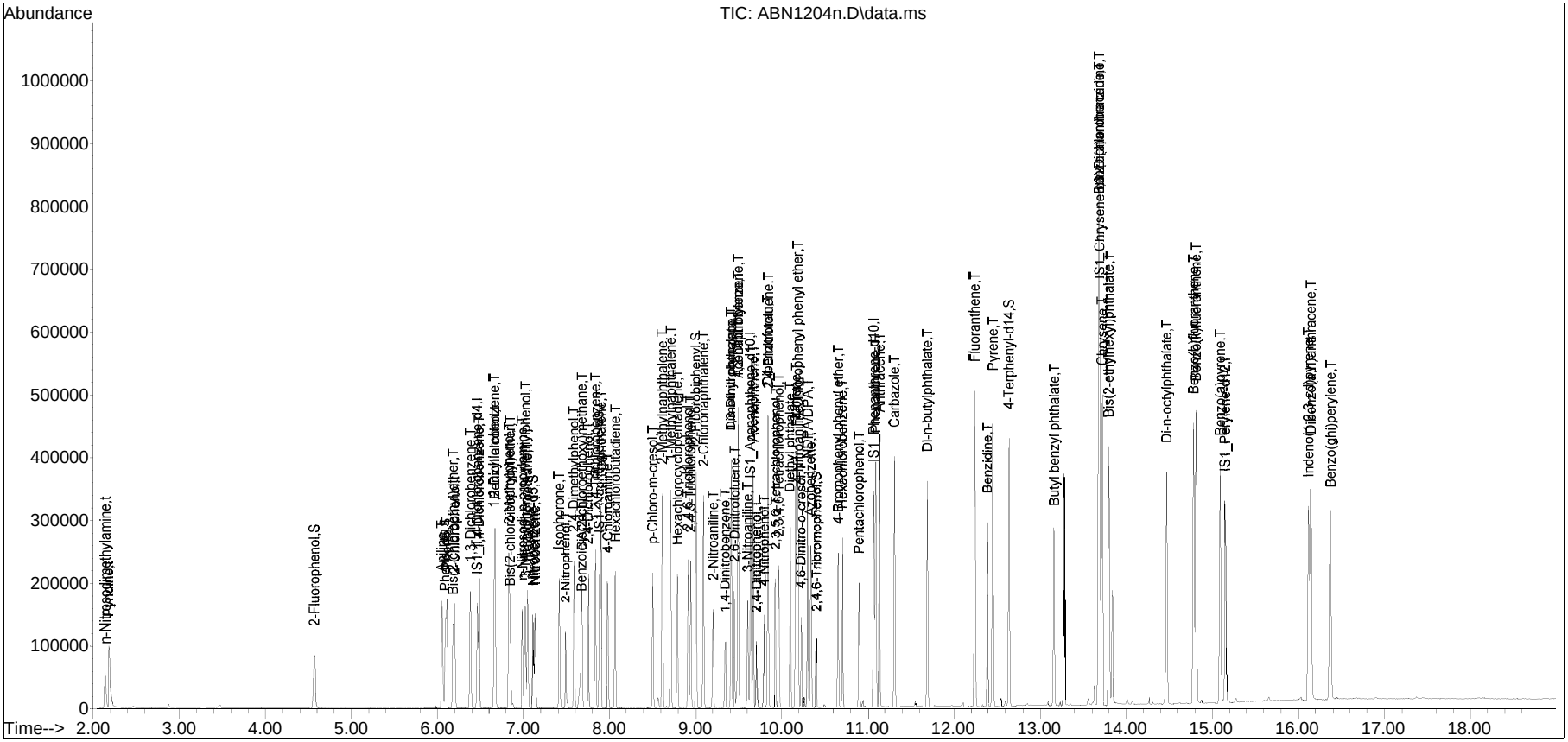
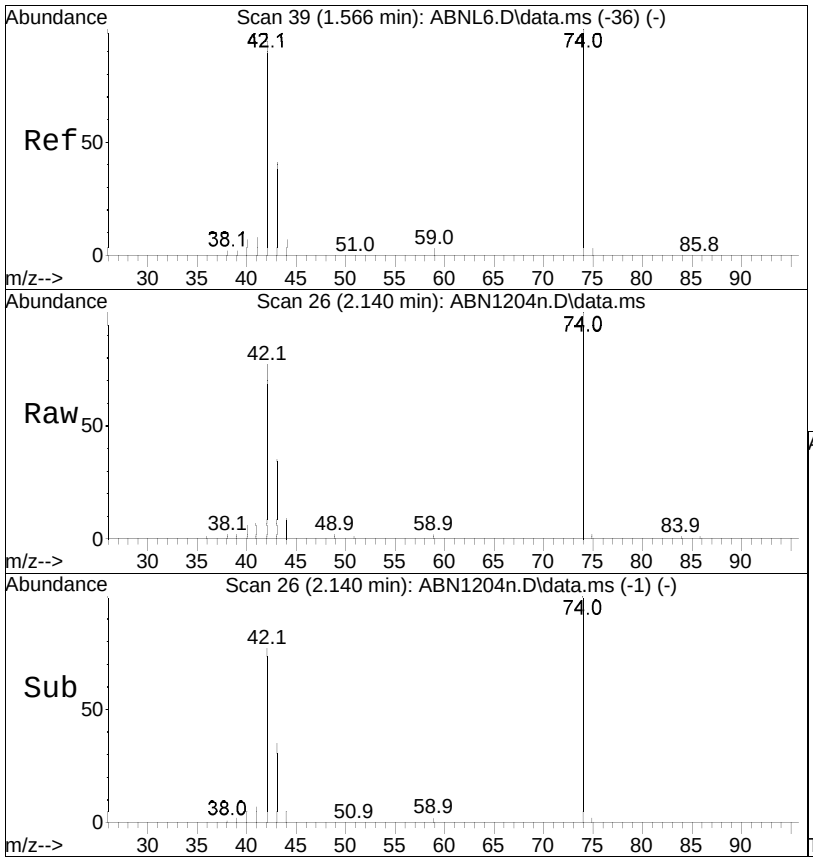
Sub List : ABNical - ABN ical sublist

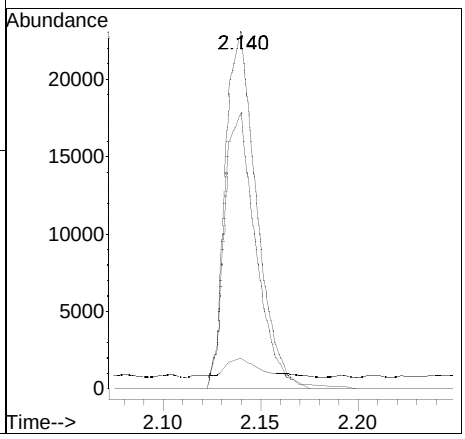


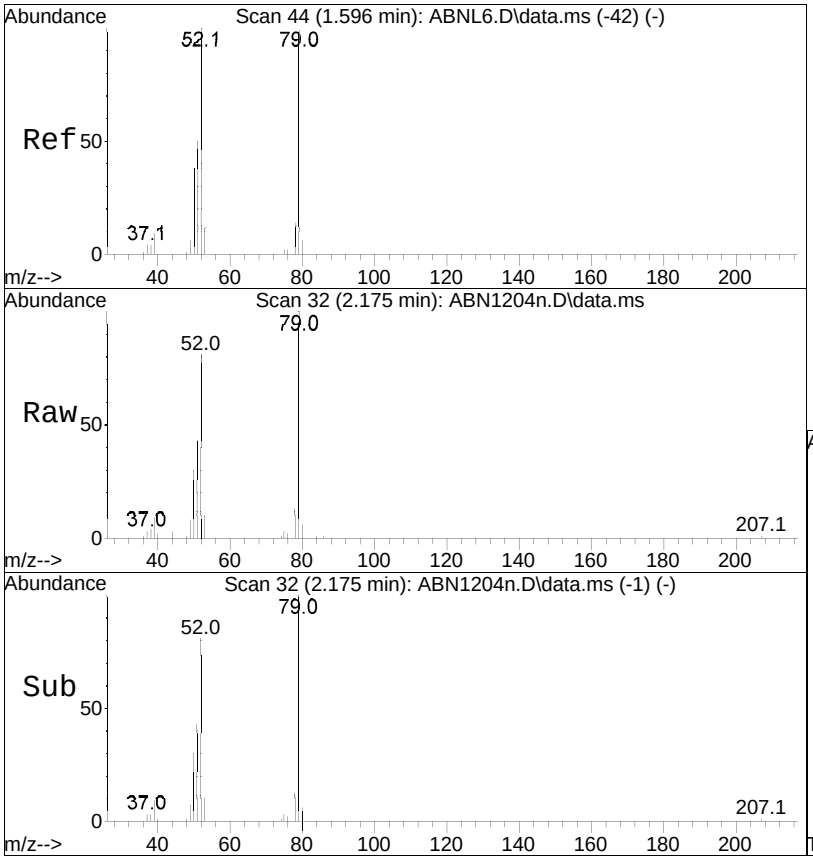


#2
n-Nitrosodimethylamine
Concen: 5.18 ug/ml
RT: 2.140 min Scan# 26
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 74 Resp: 25608

Ion	Ratio	Lower	Upper
74	100		
42	77.1	100.0	150.0#
44	6.9	6.7	10.1

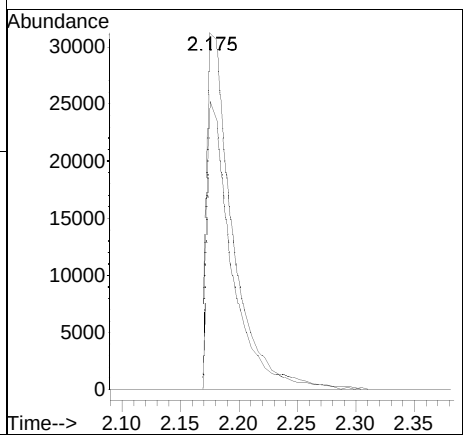


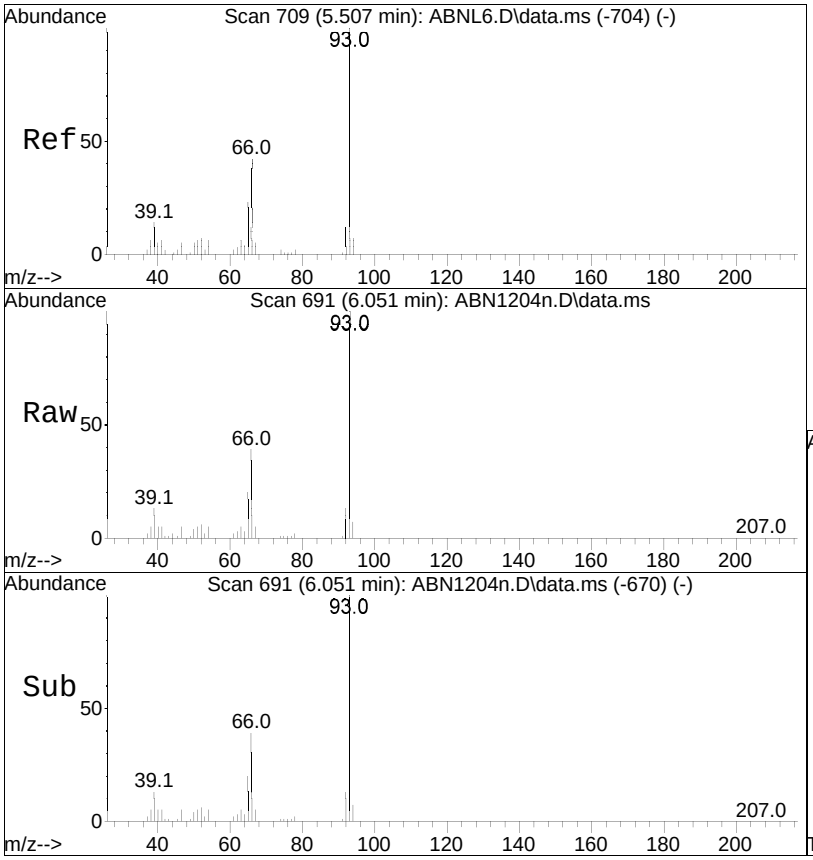


#3
Pyridine
Concen: 5.42 ug/ml
RT: 2.175 min Scan# 32
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 79 Resp: 47686

Ion	Ratio	Lower	Upper
79	100		
52	78.1	93.1	139.7#

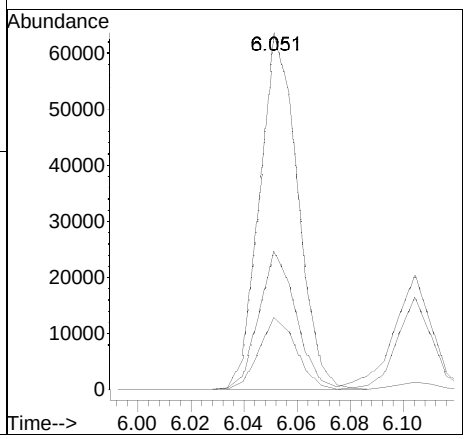


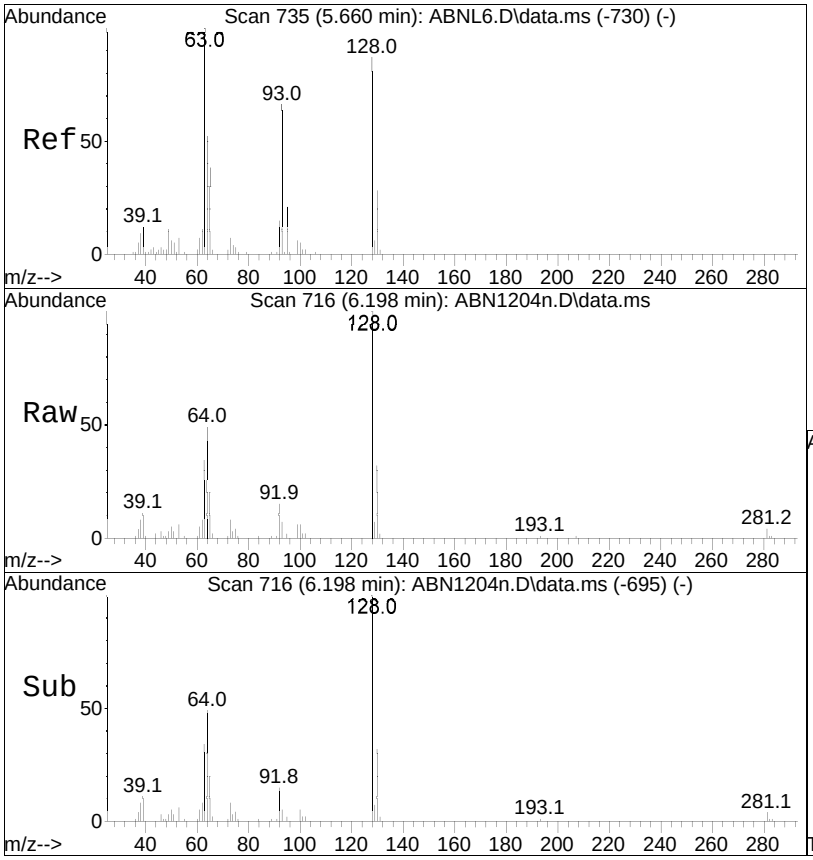


#5
Aniline
Concen: 5.14 ug/ml
RT: 6.051 min Scan# 691
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 93 Resp: 62848

Ion	Ratio	Lower	Upper
93	100		
66	38.1	32.6	49.0
65	19.9	17.6	26.4

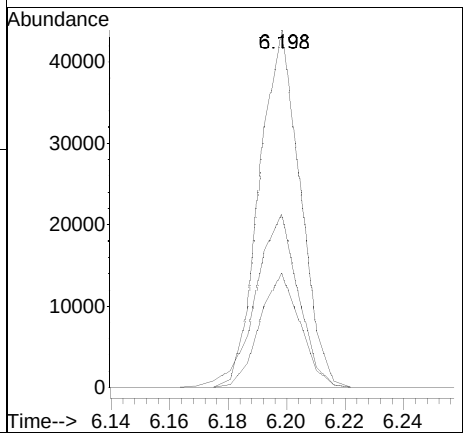


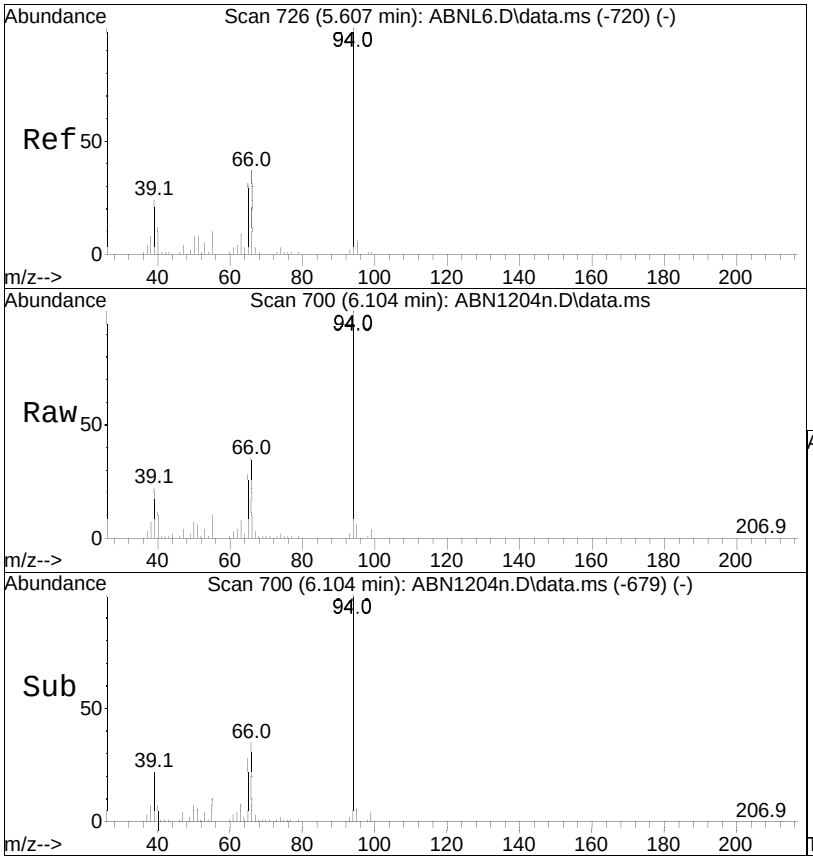


#6
2-Chlorophenol
Concen: 5.24 ug/ml
RT: 6.198 min Scan# 716
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:128 Resp: 42374

Ion	Ratio	Lower	Upper
128	100		
64	51.1	45.1	67.7
130	31.9	26.2	39.4

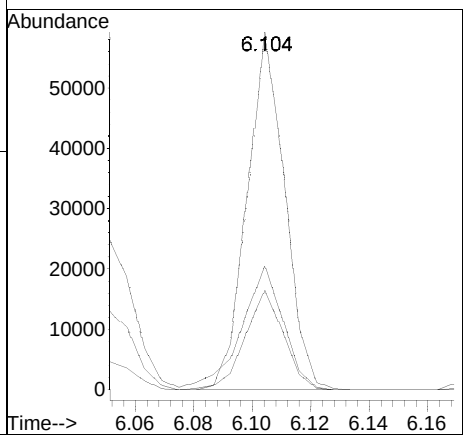


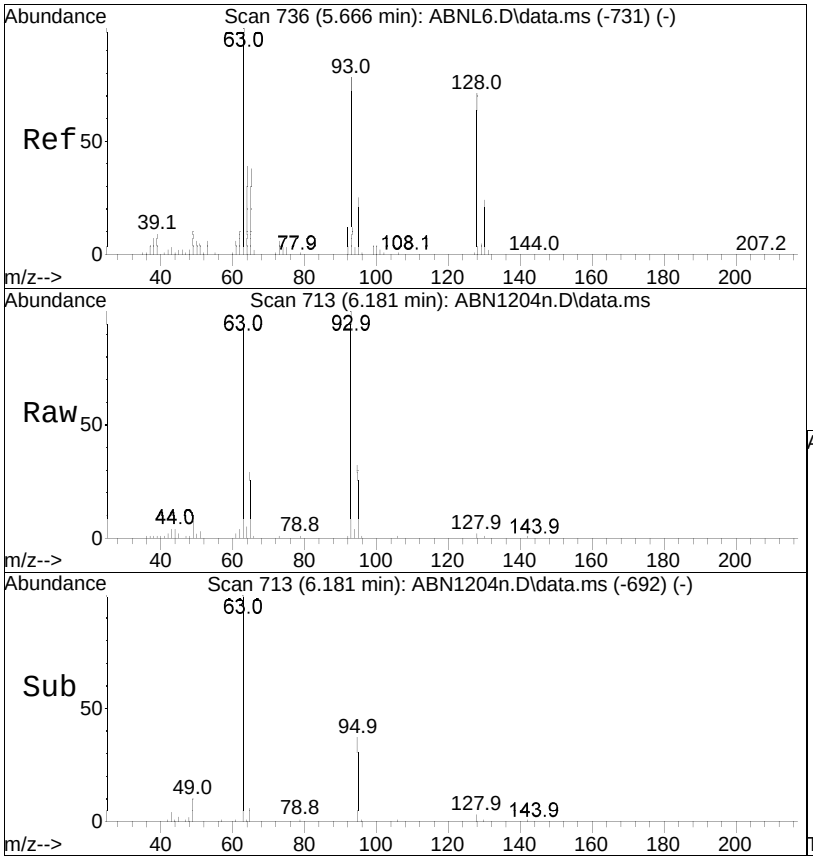


#8
Phenol
Concen: 5.33 ug/ml
RT: 6.104 min Scan# 700
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 94 Resp: 52787

Ion	Ratio	Lower	Upper
94	100		
65	28.6	26.0	39.0
66	38.8	33.8	50.8

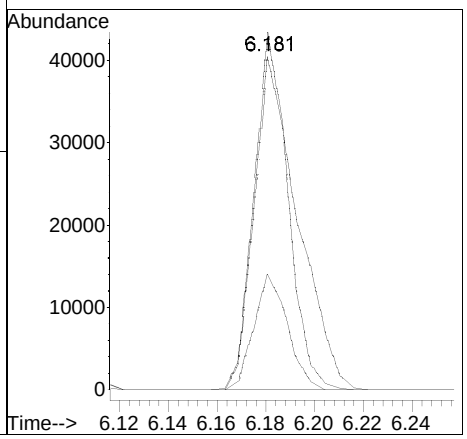


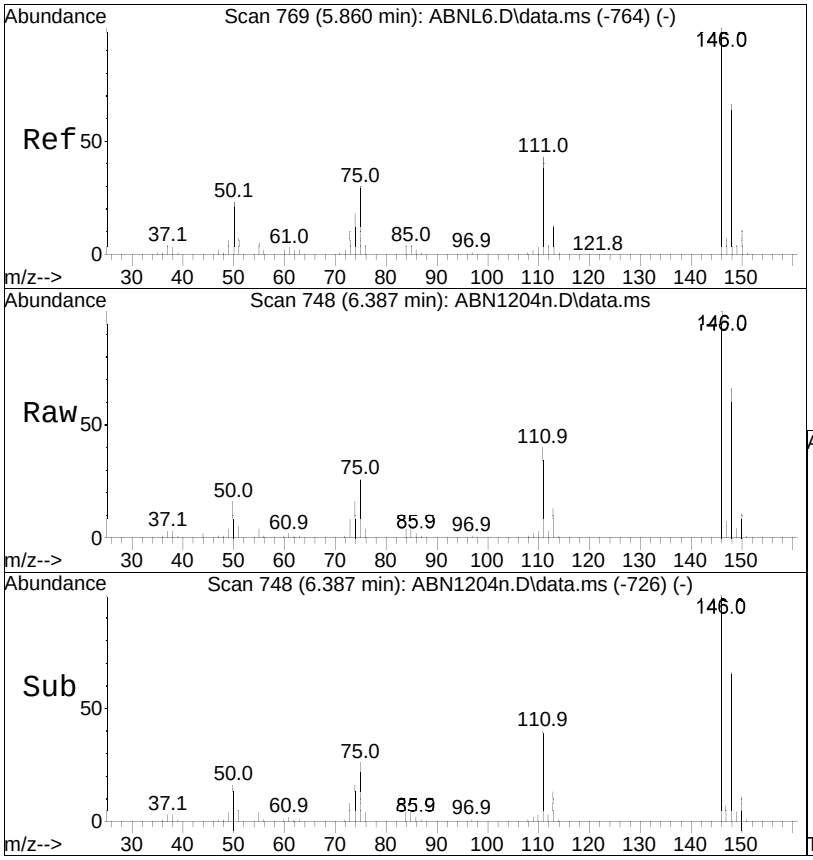


#9
Bis(2-chloroethyl)ether
Concen: 5.07 ug/ml
RT: 6.181 min Scan# 713
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 93 Resp: 41573

Ion	Ratio	Lower	Upper
93	100		
63	119.3	74.6	111.8#
95	32.1	25.9	38.9

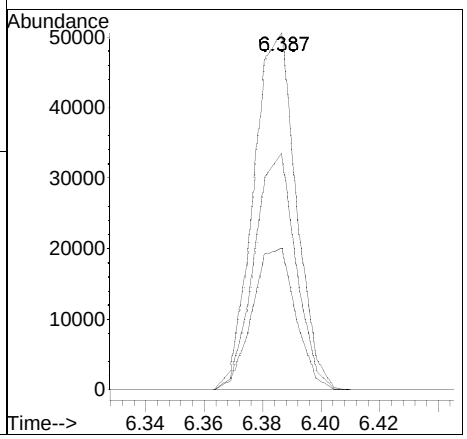


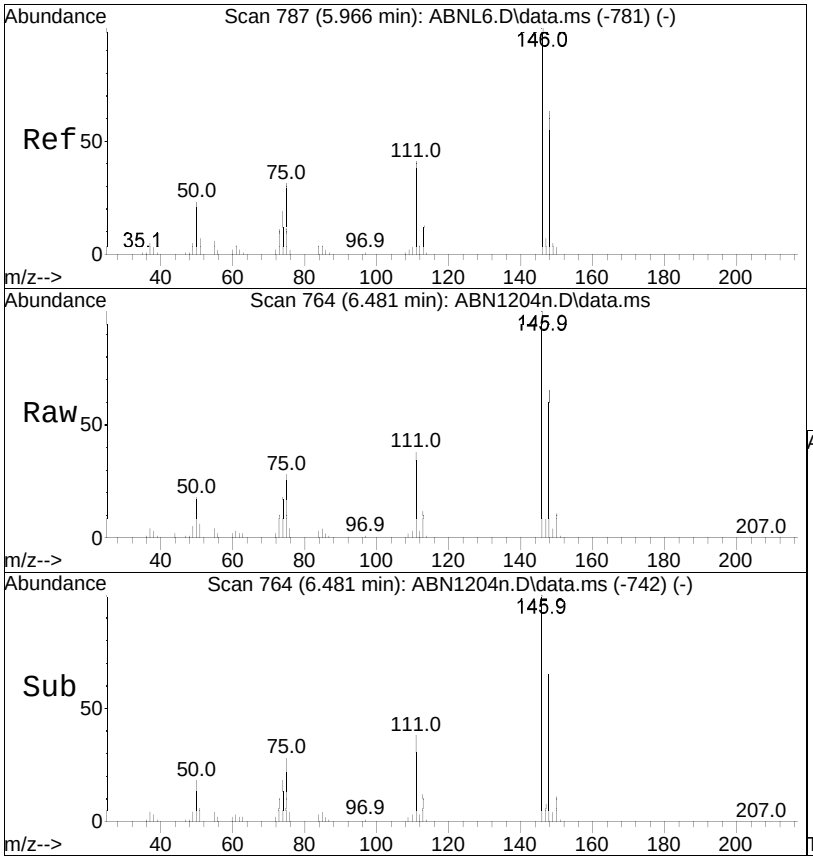


#10
1,3-Dichlorobenzene
Concen: 5.23 ug/ml
RT: 6.387 min Scan# 748
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:146 Resp: 50998

Ion	Ratio	Lower	Upper
146	100		
111	40.5	34.3	51.5
148	64.6	50.8	76.2

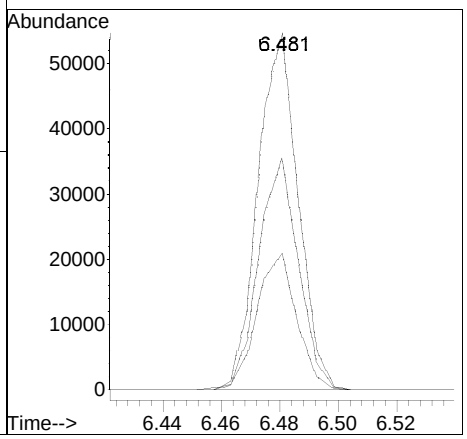


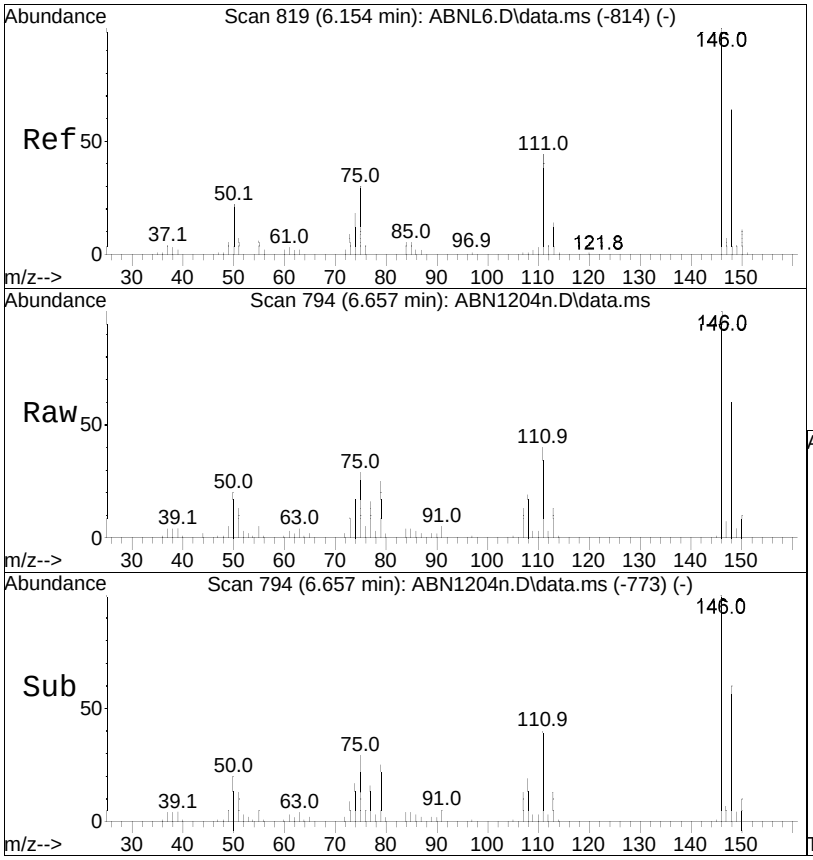


#11
1,4-Dichlorobenzene
Concen: 5.17 ug/ml
RT: 6.481 min Scan# 764
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:146 Resp: 51619

Ion	Ratio	Lower	Upper
146	100		
148	64.5	50.7	76.1
111	38.7	33.4	50.0

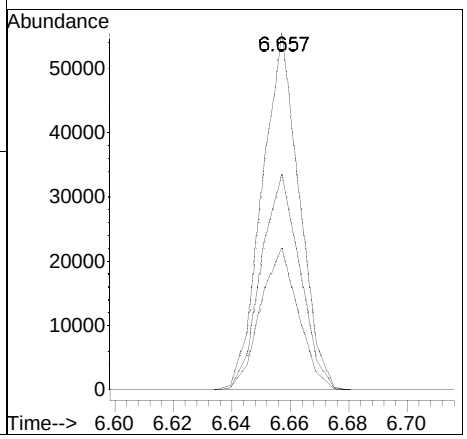


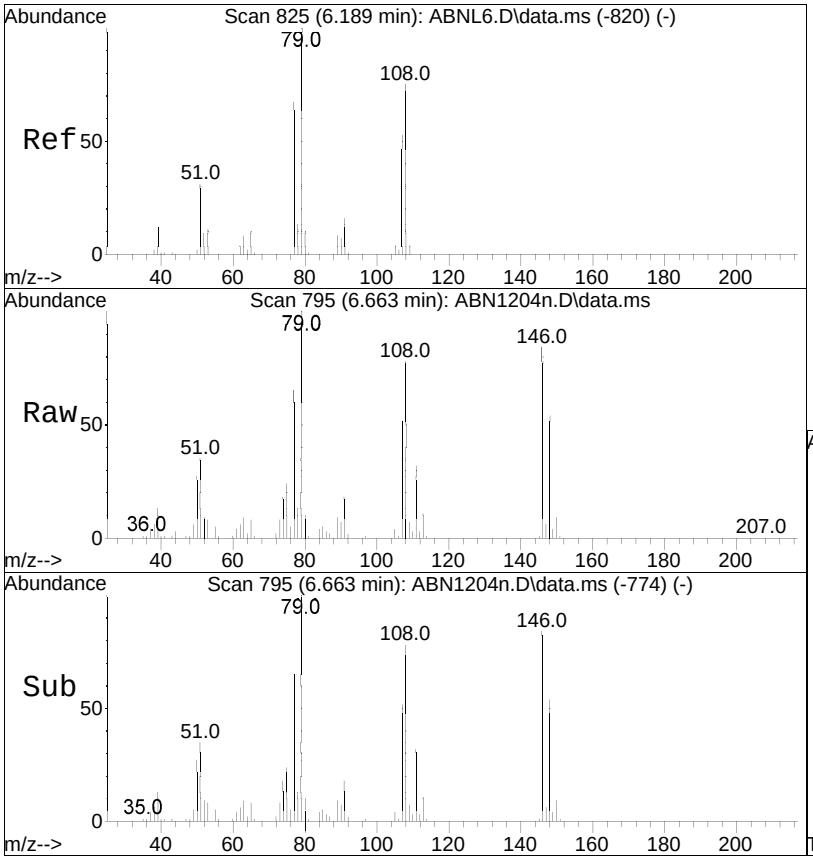


#12
1,2-Dichlorobenzene
Concen: 5.15 ug/ml
RT: 6.657 min Scan# 794
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:146 Resp: 48877

Ion	Ratio	Lower	Upper
146	100		
111	40.9	34.6	52.0
148	62.9	50.2	75.4

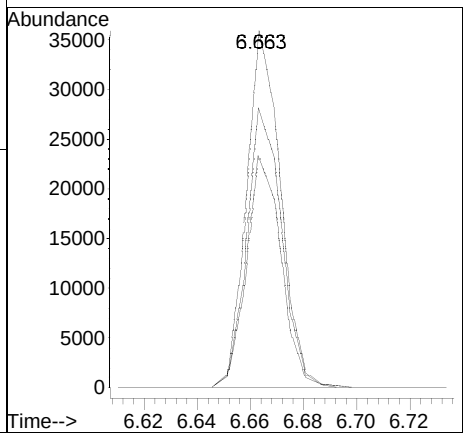


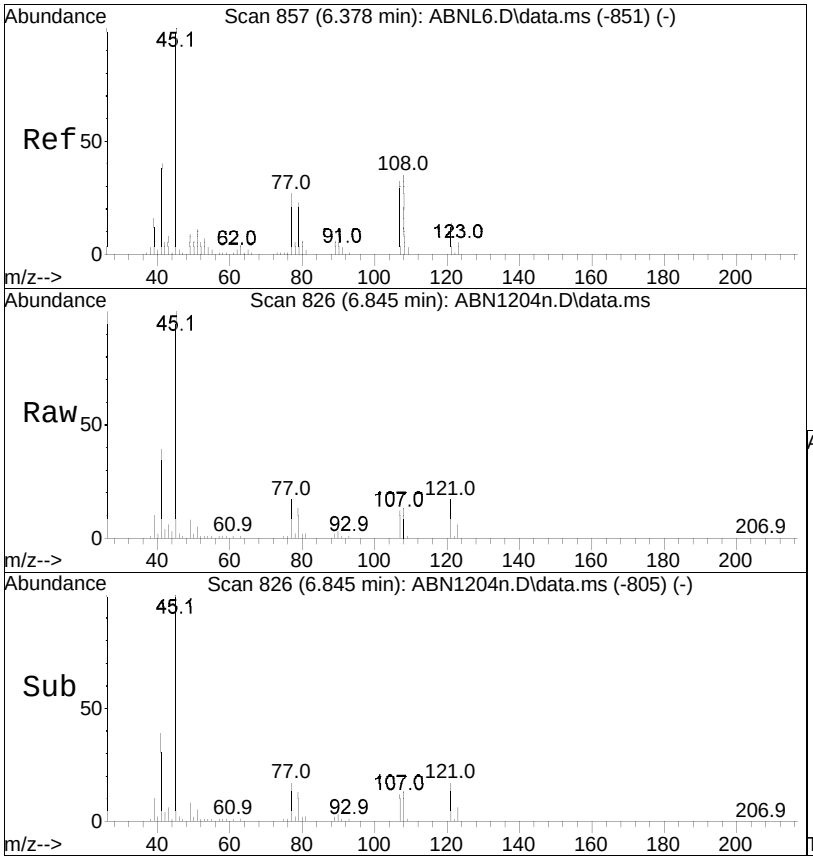


#13
Benzyl alcohol
Concen: 4.93 ug/ml
RT: 6.663 min Scan# 795
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 79 Resp: 31845

Ion	Ratio	Lower	Upper
79	100		
77	66.2	54.9	82.3
108	79.9	63.1	94.7

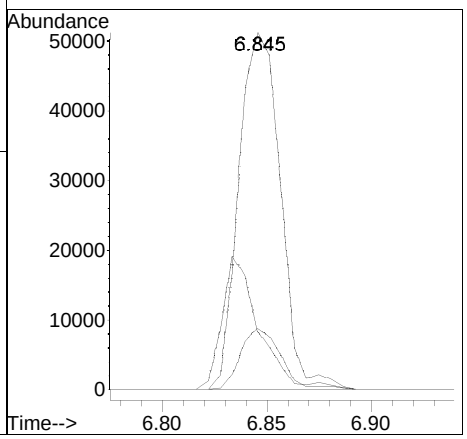


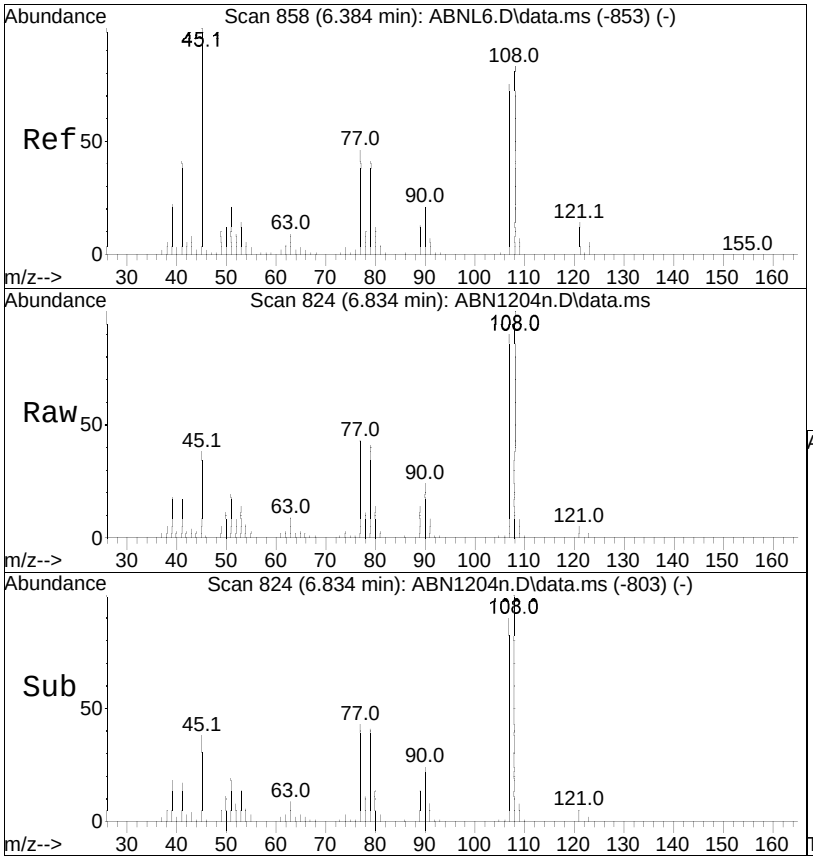


#14
Bis(2-chloroisopropyl)ether
Concen: 4.23 ug/ml
RT: 6.845 min Scan# 826
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 45 Resp: 70378

Ion	Ratio	Lower	Upper
45	100		
121	16.6	9.8	14.6#
77	33.2	6.1	9.1#

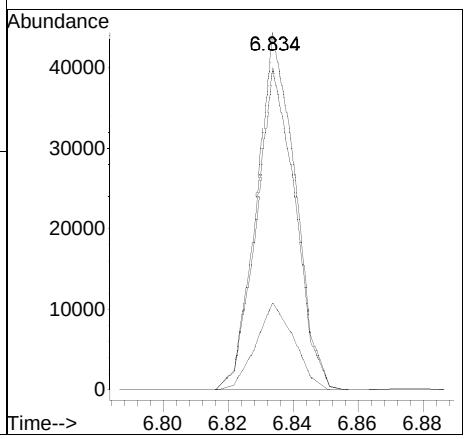


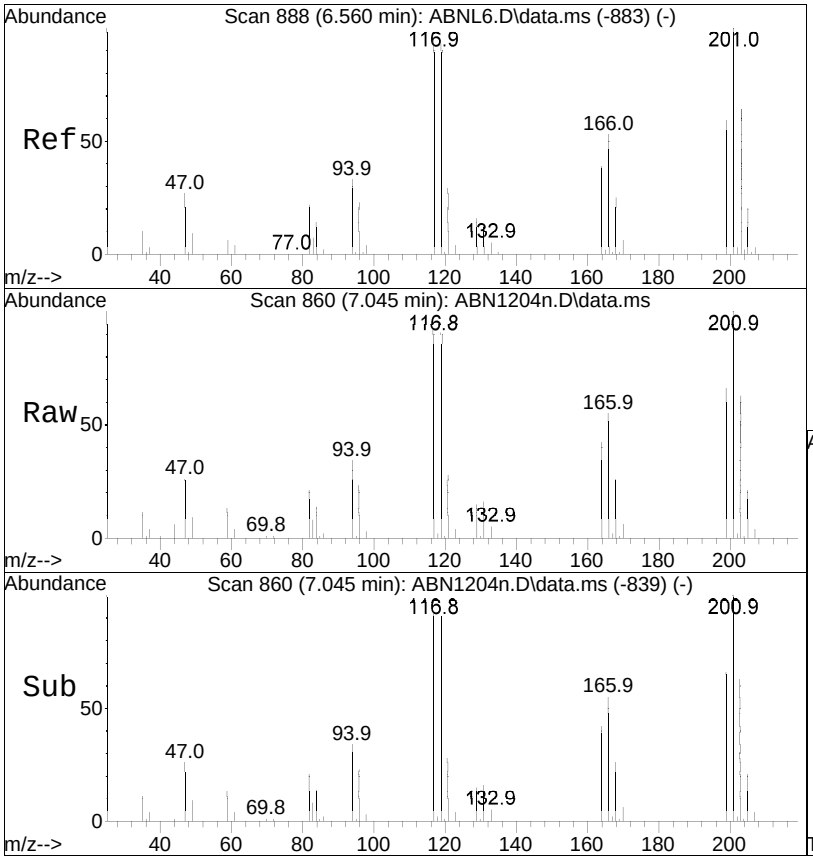


#15
2-Methylphenol
Concen: 5.19 ug/ml
RT: 6.834 min Scan# 824
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:108 Resp: 36581

Ion	Ratio	Lower	Upper
108	100		
107	90.3	70.7	106.1
90	24.1	18.7	28.1

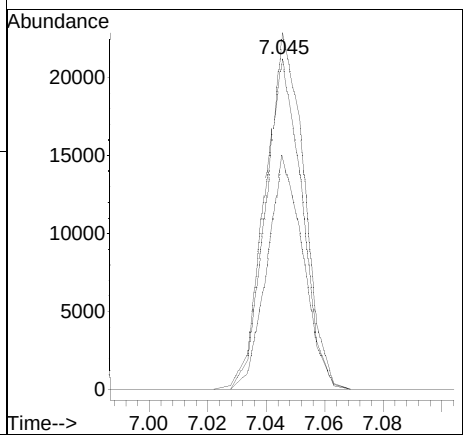


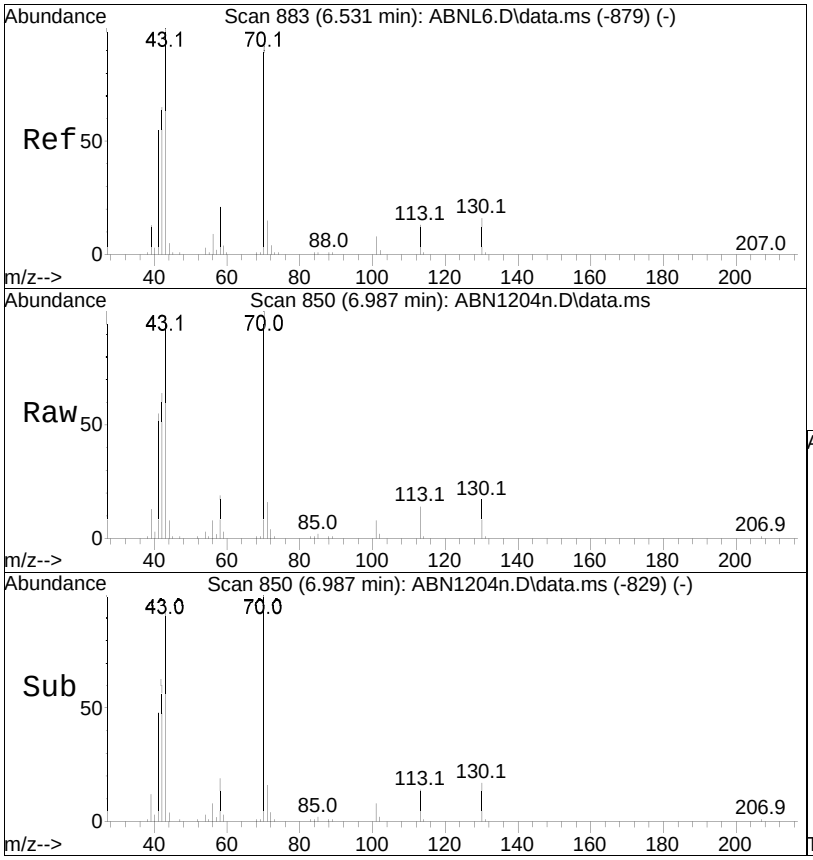


#16
Hexachloroethane
Concen: 4.89 ug/ml
RT: 7.045 min Scan# 860
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:117 Resp: 19007

Ion	Ratio	Lower	Upper
117	100		
201	106.8	58.6	87.8#
199	67.8	36.9	55.3#

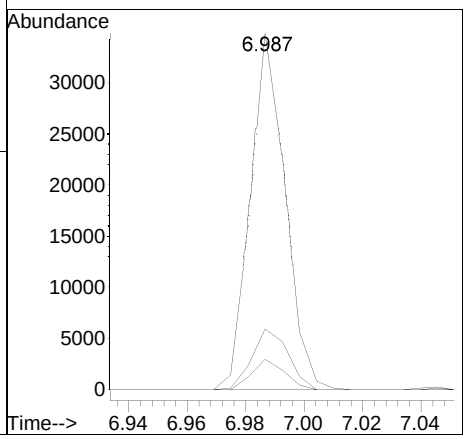


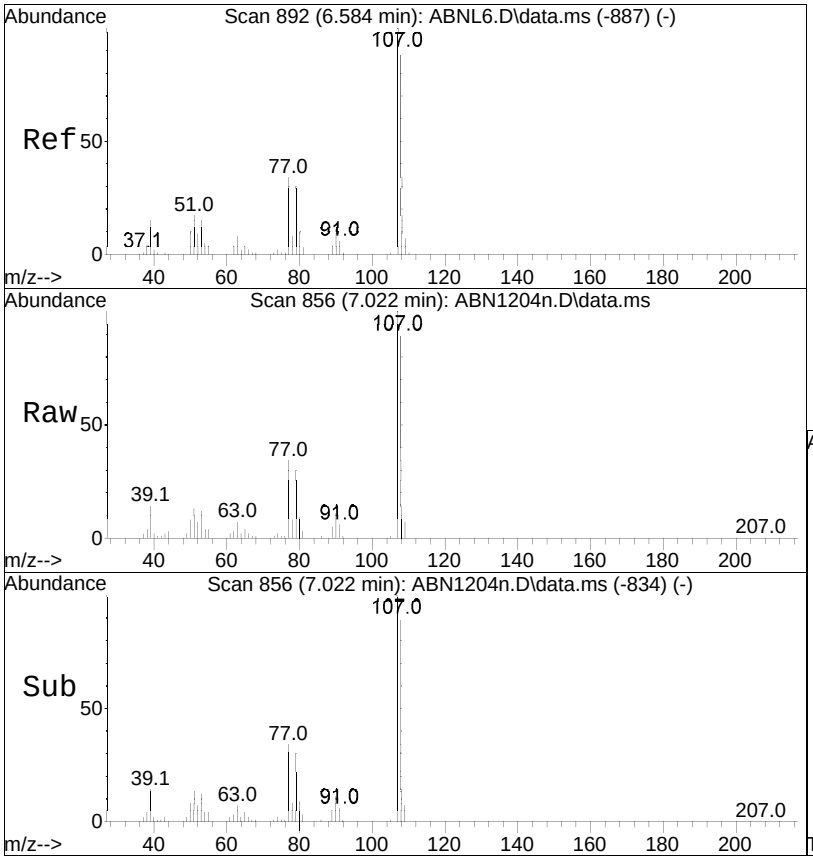


#17
n-Nitrosodi-n-propylamine
Concen: 4.72 ug/ml
RT: 6.987 min Scan# 850
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 70 Resp: 28666

Ion	Ratio	Lower	Upper
70	100		
130	17.7	18.2	27.4#
101	8.1	7.8	11.8

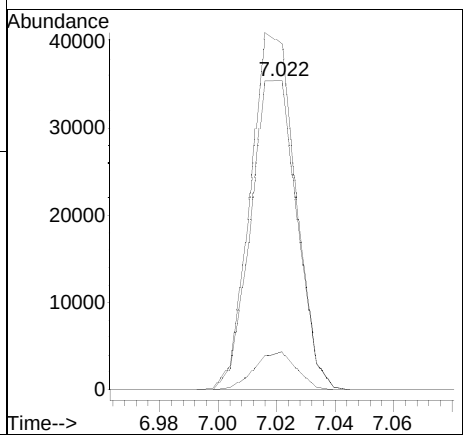


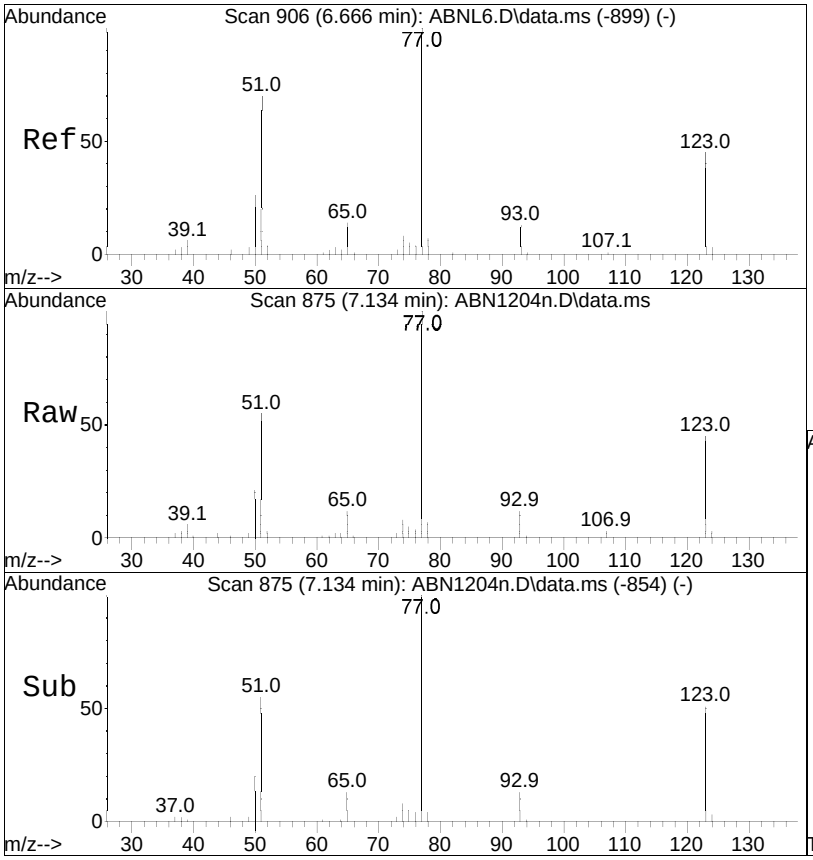


#18
3-Methylphenol/4-Methylphenol
Concen: 5.10 ug/ml
RT: 7.022 min Scan# 856
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:108 Resp: 38708

Ion	Ratio	Lower	Upper
108	100		
107	113.3	88.6	132.8
90	11.3	8.8	13.2

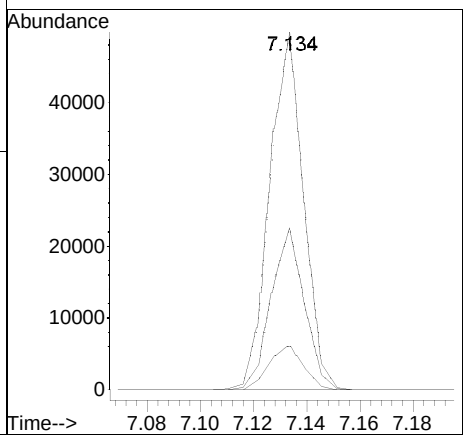


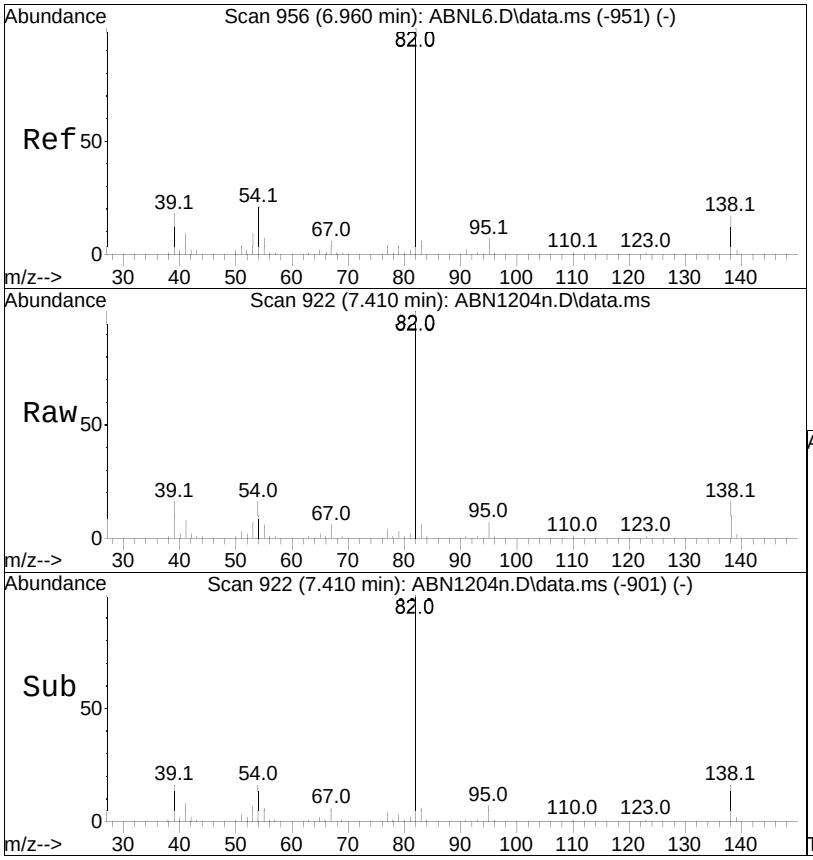


#20
Nitrobenzene
Concen: 4.85 ug/ml
RT: 7.134 min Scan# 875
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 77 Resp: 43561

Ion	Ratio	Lower	Upper
77	100		
123	44.7	36.3	54.5
65	12.7	11.6	17.4

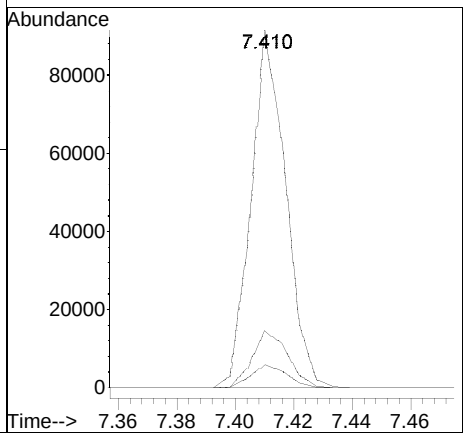


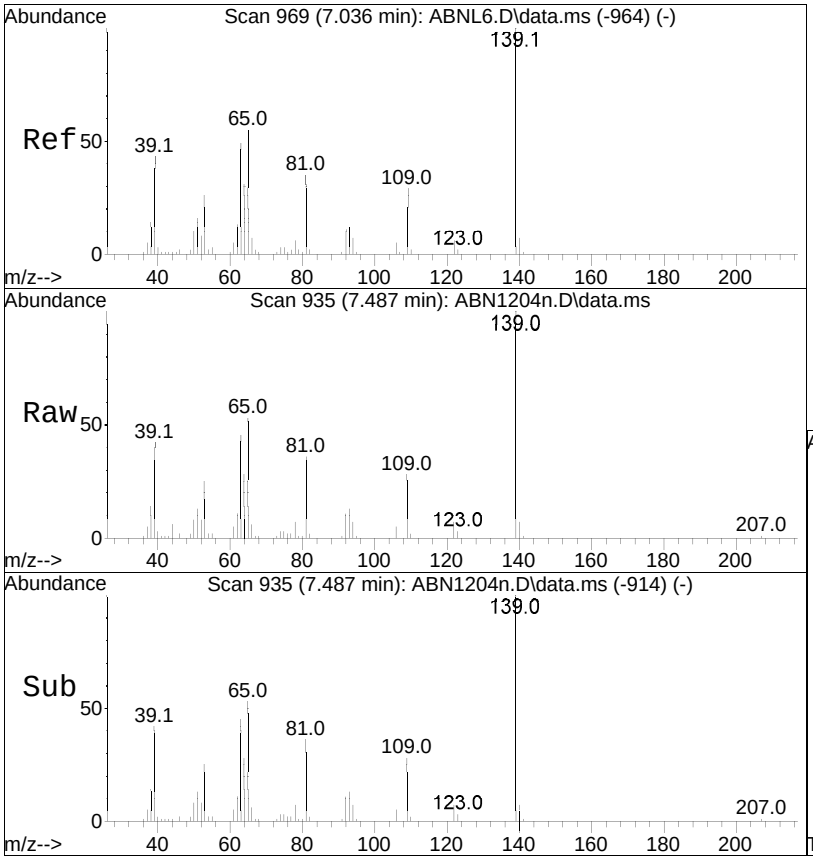


#21
Isophorone
Concen: 4.71 ug/ml
RT: 7.410 min Scan# 922
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 82 Resp: 74215

Ion	Ratio	Lower	Upper
82	100		
138	16.5	14.7	22.1
95	6.8	5.2	7.8

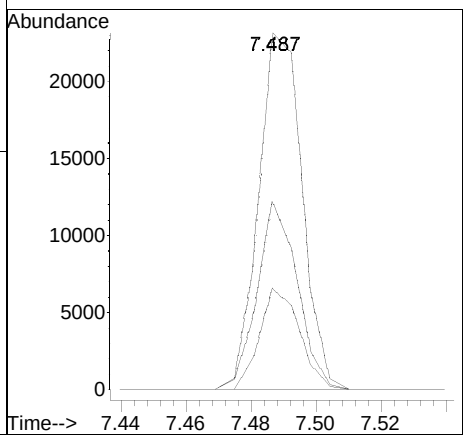


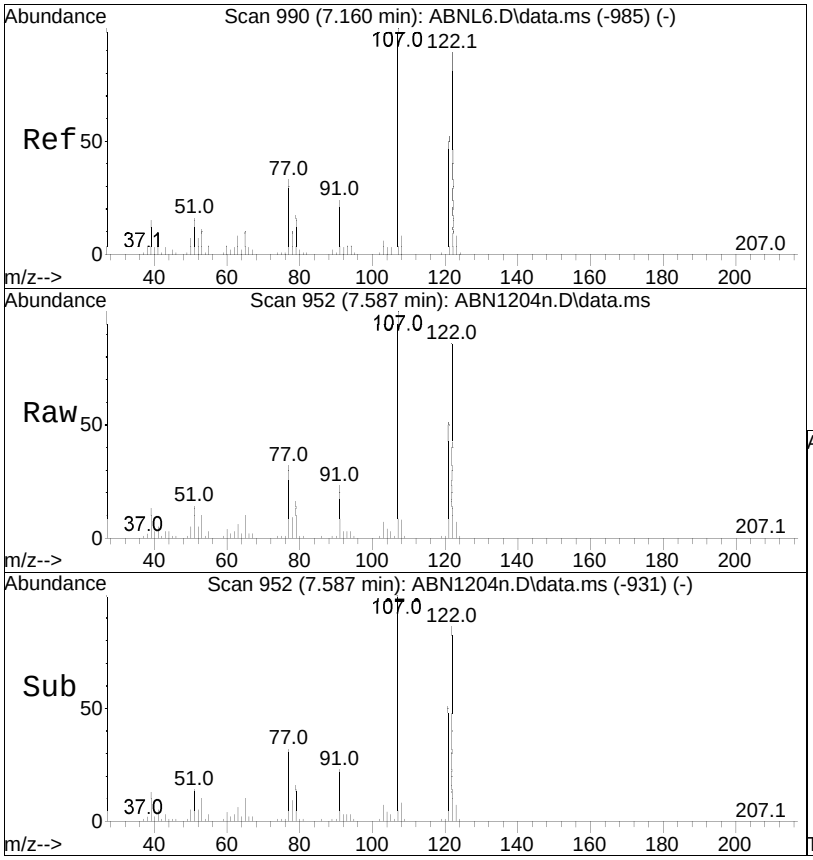


#22
2-Nitrophenol
Concen: 5.16 ug/ml
RT: 7.487 min Scan# 935
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:139 Resp: 21347

Ion	Ratio	Lower	Upper
139	100		
109	26.3	19.4	29.0
65	48.8	46.1	69.1

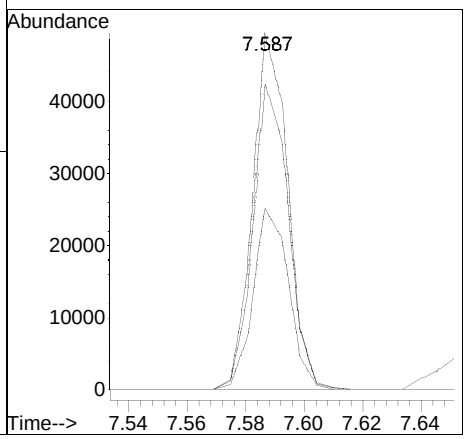


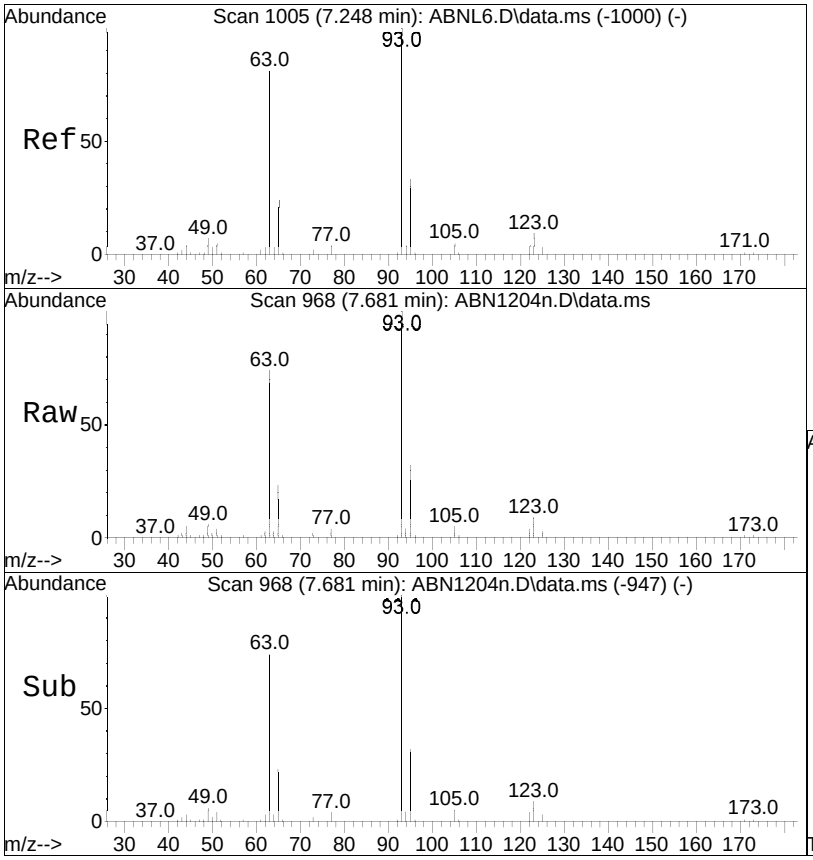


#23
2,4-Dimethylphenol
Concen: 5.02 ug/ml
RT: 7.587 min Scan# 952
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:107 Resp: 41066

Ion	Ratio	Lower	Upper
107	100		
121	51.5	40.0	60.0
122	86.3	70.2	105.4

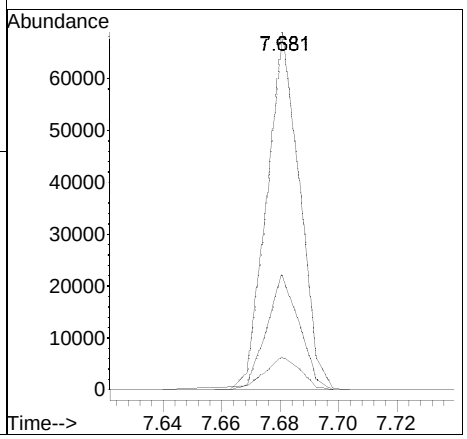


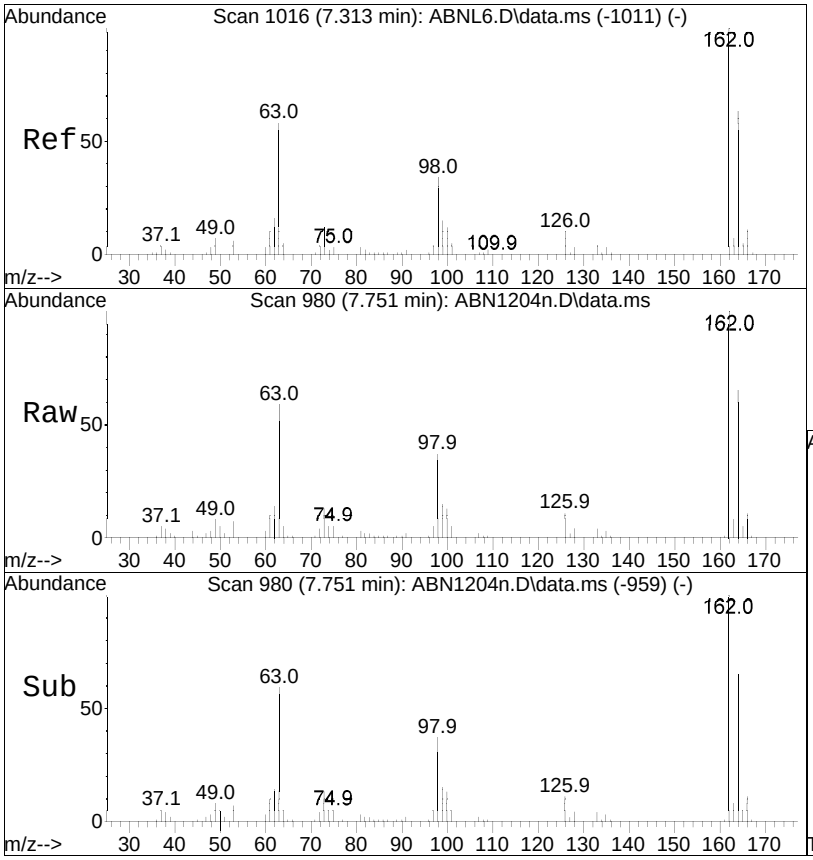


#24
Bis(2-chloroethoxy)methane
Concen: 4.89 ug/ml
RT: 7.681 min Scan# 968
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 93 Resp: 53230

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.8	38.8
123	11.4	10.1	15.1

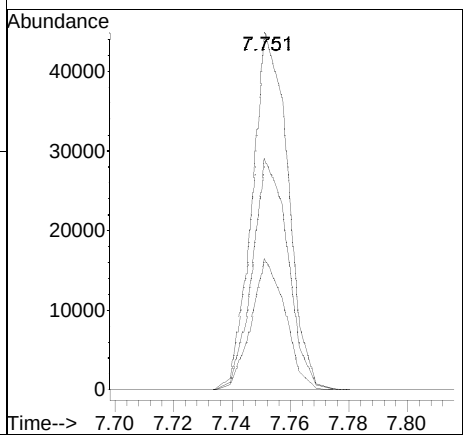


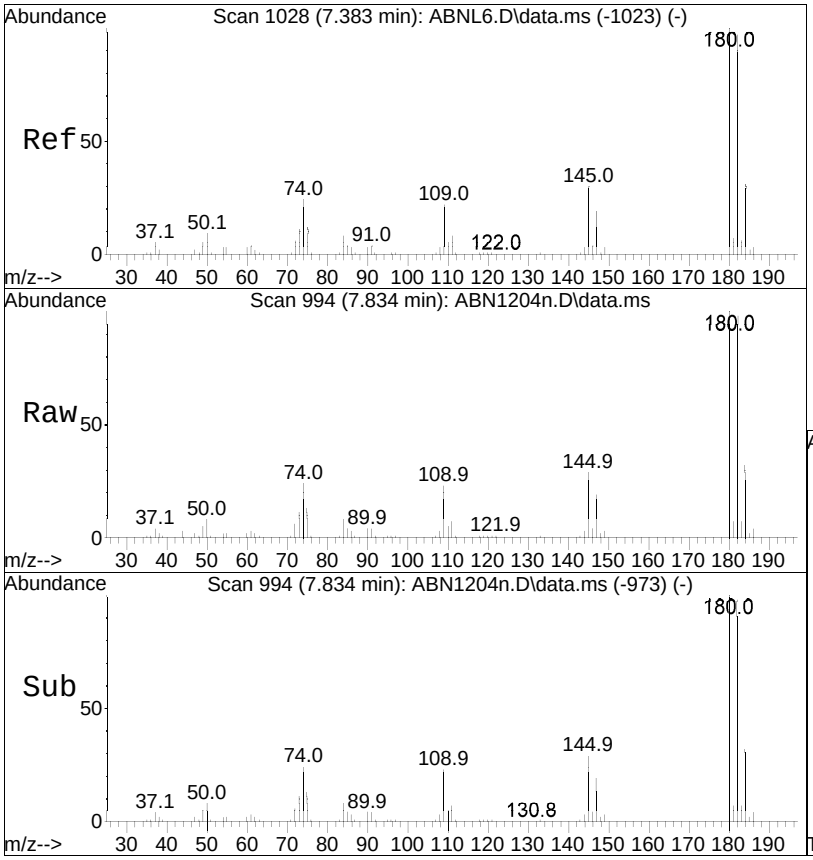


#25
2,4-Dichlorophenol
Concen: 5.18 ug/ml
RT: 7.751 min Scan# 980
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:162 Resp: 37928

Ion	Ratio	Lower	Upper
162	100		
164	64.2	51.0	76.4
98	35.0	32.2	48.2

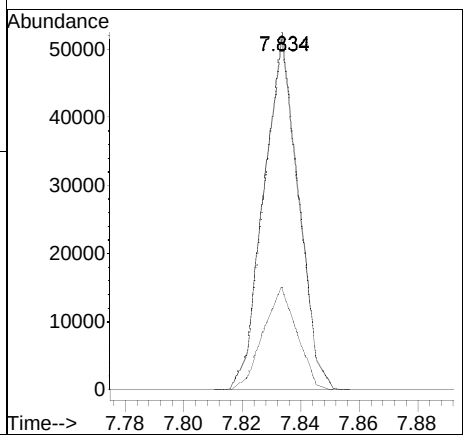


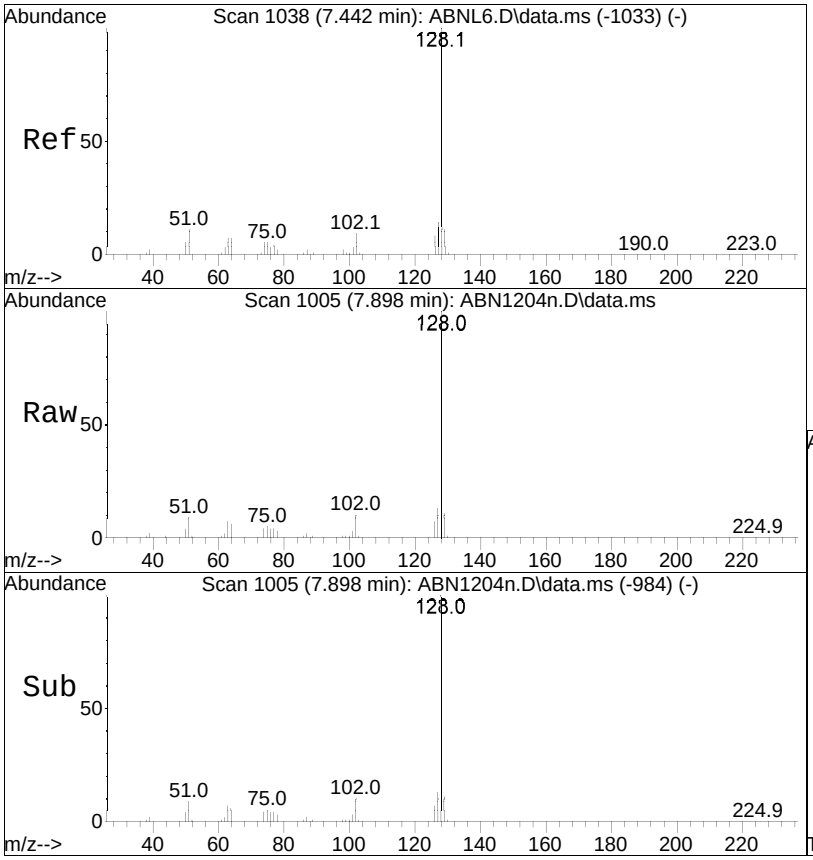


#26
1,2,4-Trichlorobenzene
Concen: 4.97 ug/ml
RT: 7.834 min Scan# 994
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:180 Resp: 42709

Ion	Ratio	Lower	Upper
180	100		
182	97.9	76.0	114.0
145	28.4	25.7	38.5

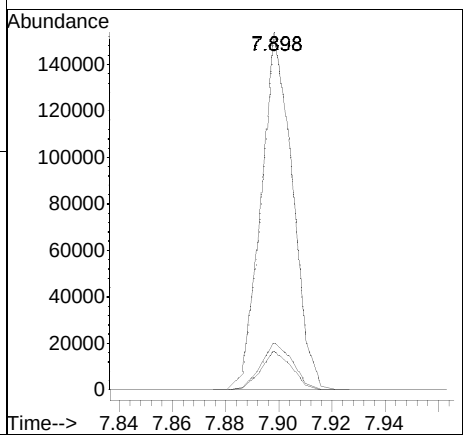


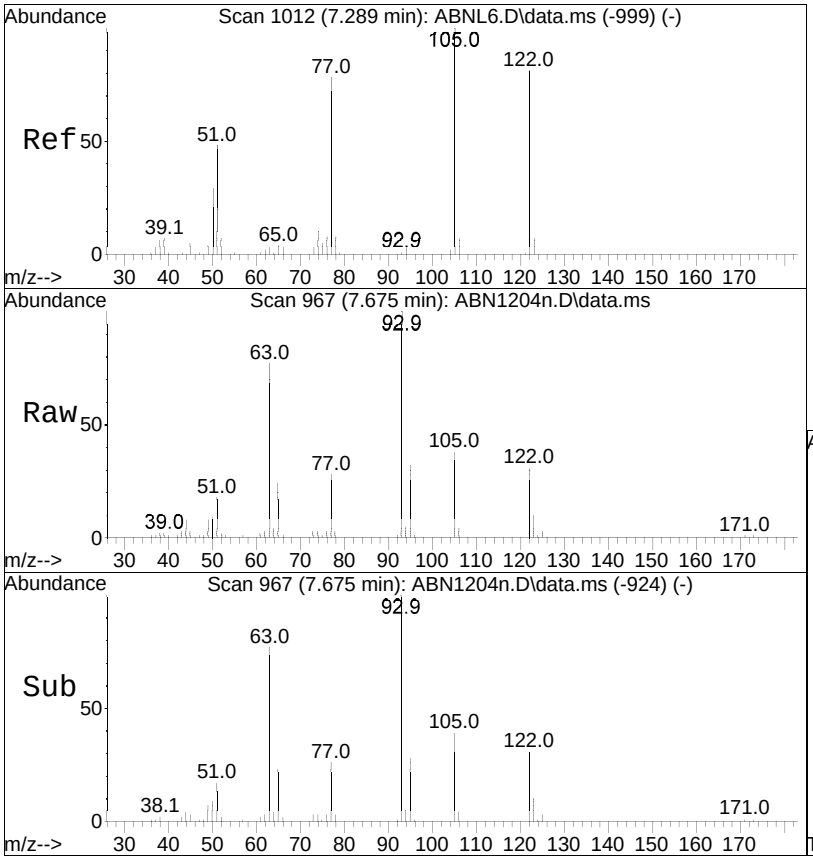


#35
Naphthalene
Concen: 4.99 ug/ml
RT: 7.898 min Scan# 1005
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:128 Resp: 124498

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.7	13.1
127	13.5	10.3	15.5

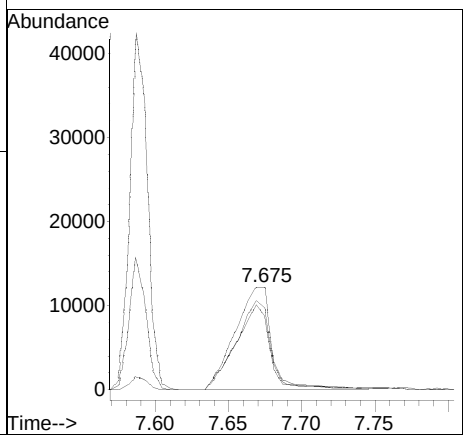


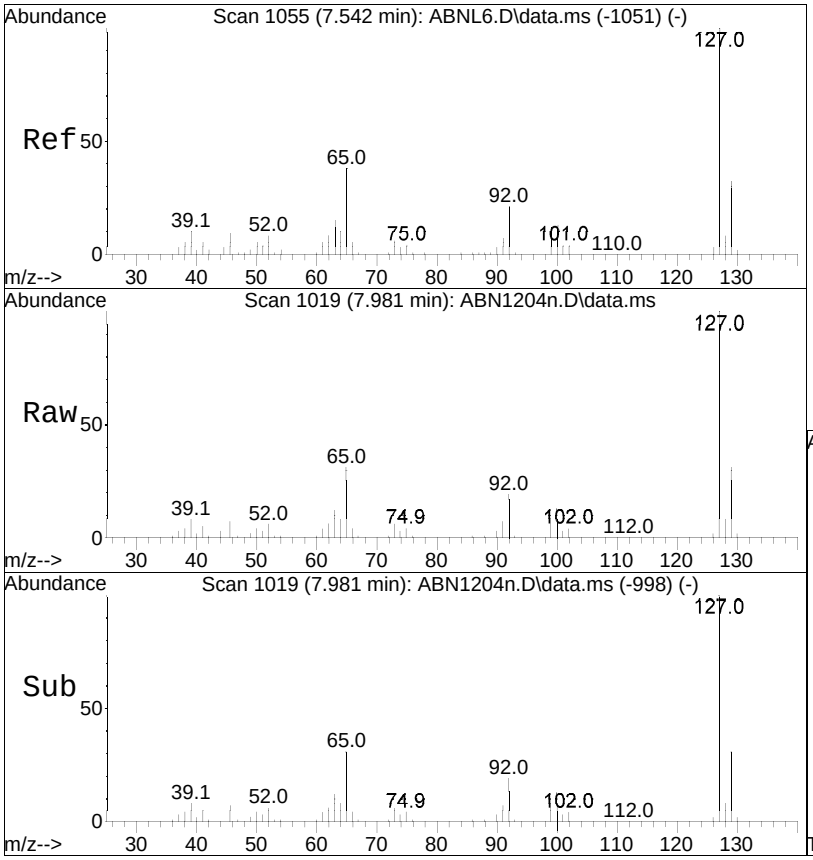


#36
Benzoic Acid
Concen: 4.65 ug/ml
RT: 7.675 min Scan# 967
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:105 Resp: 21700

Ion	Ratio	Lower	Upper
105	100		
122	82.7	59.9	89.9
77	76.5	60.1	90.1

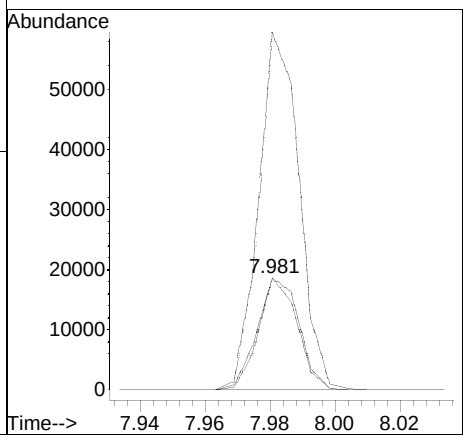


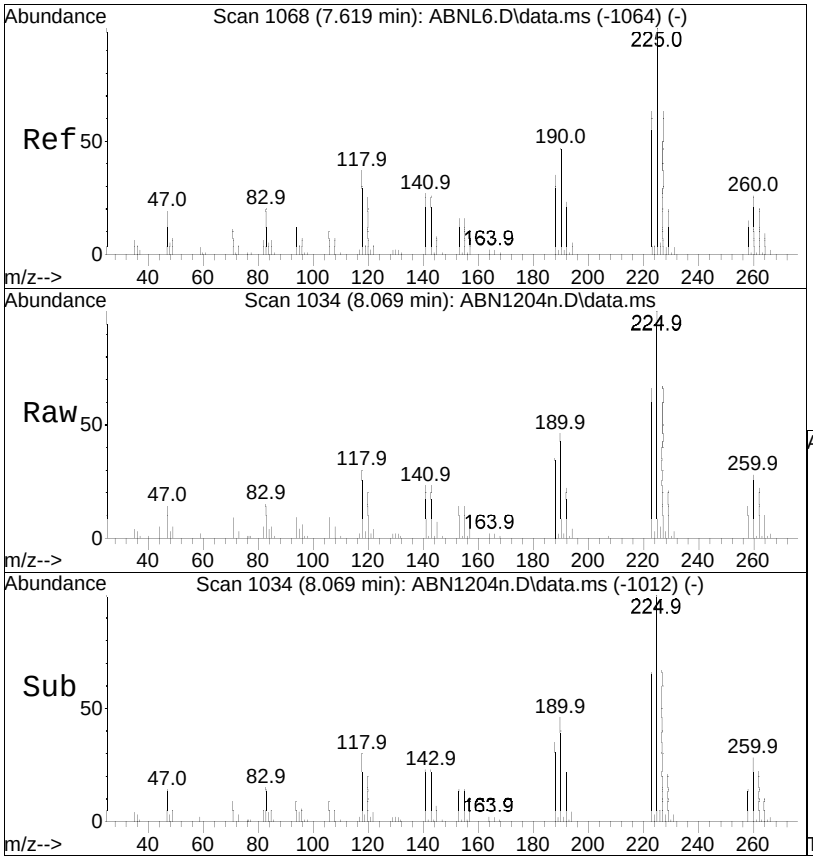


#37
4-Chloroaniline
Concen: 4.62 ug/ml
RT: 7.981 min Scan# 1019
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 65 Resp: 15777

Ion	Ratio	Lower	Upper
65	100		
127	321.9	237.6	356.4
129	101.4	76.3	114.5

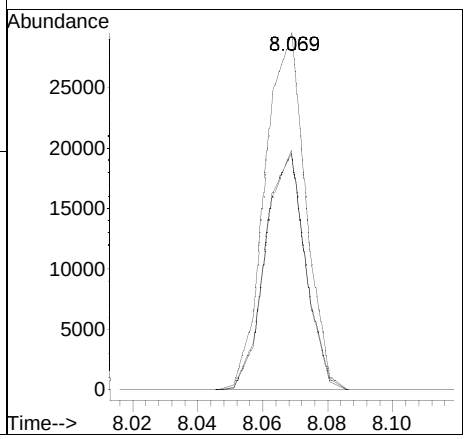


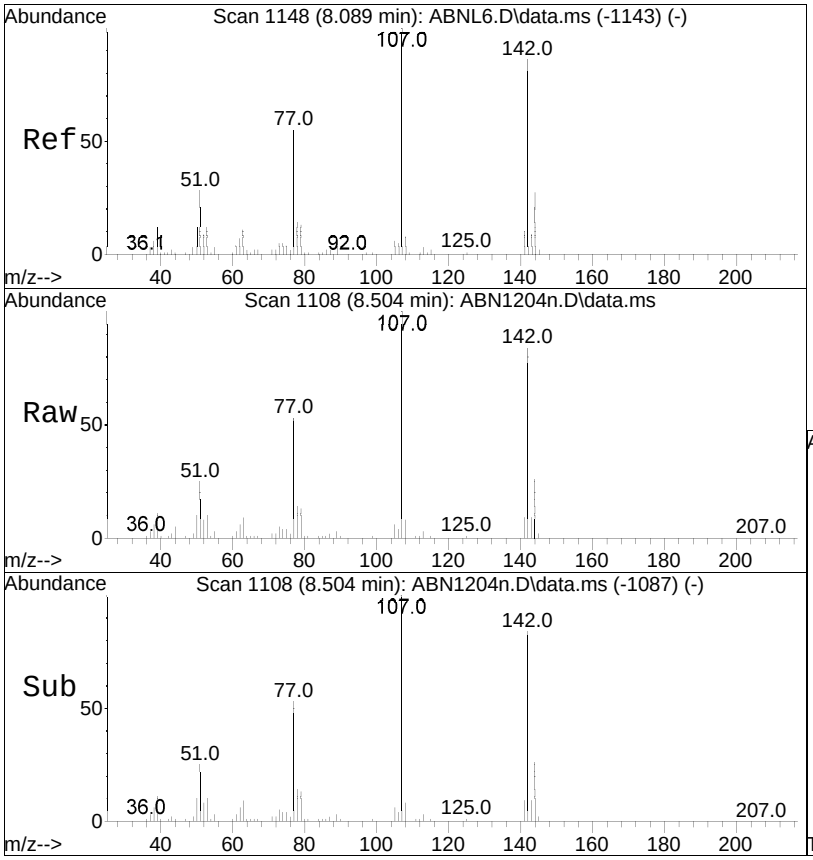


#38
Hexachlorobutadiene
Concen: 5.18 ug/ml
RT: 8.069 min Scan# 1034
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:225 Resp: 25631

Ion	Ratio	Lower	Upper
225	100		
223	65.6	50.3	75.5
227	65.5	52.2	78.2

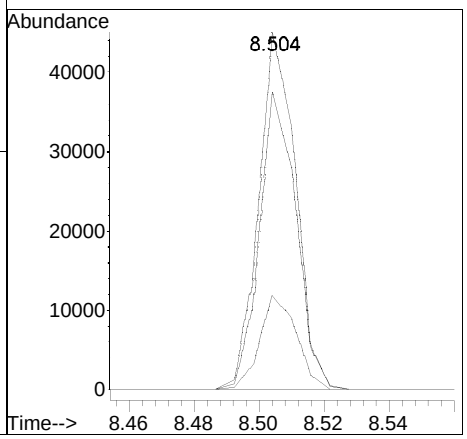


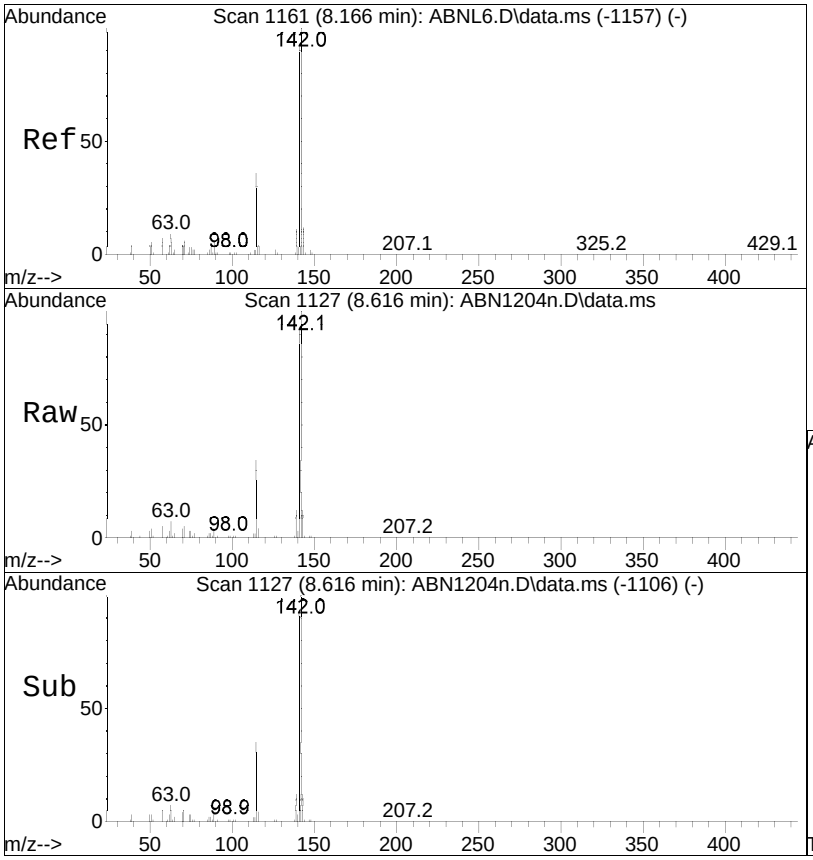


#39
p-Chloro-m-cresol
Concen: 5.07 ug/ml
RT: 8.504 min Scan# 1108
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:107 Resp: 35149

Ion	Ratio	Lower	Upper
107	100		
144	26.4	20.9	31.3
142	82.7	66.1	99.1

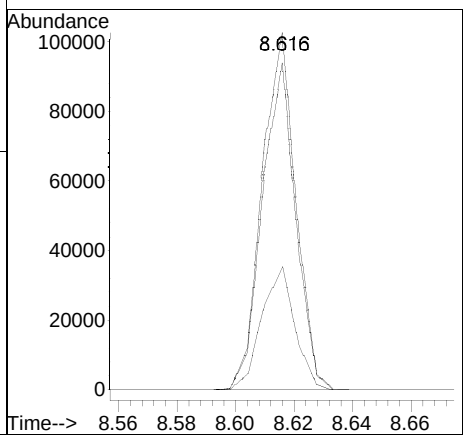


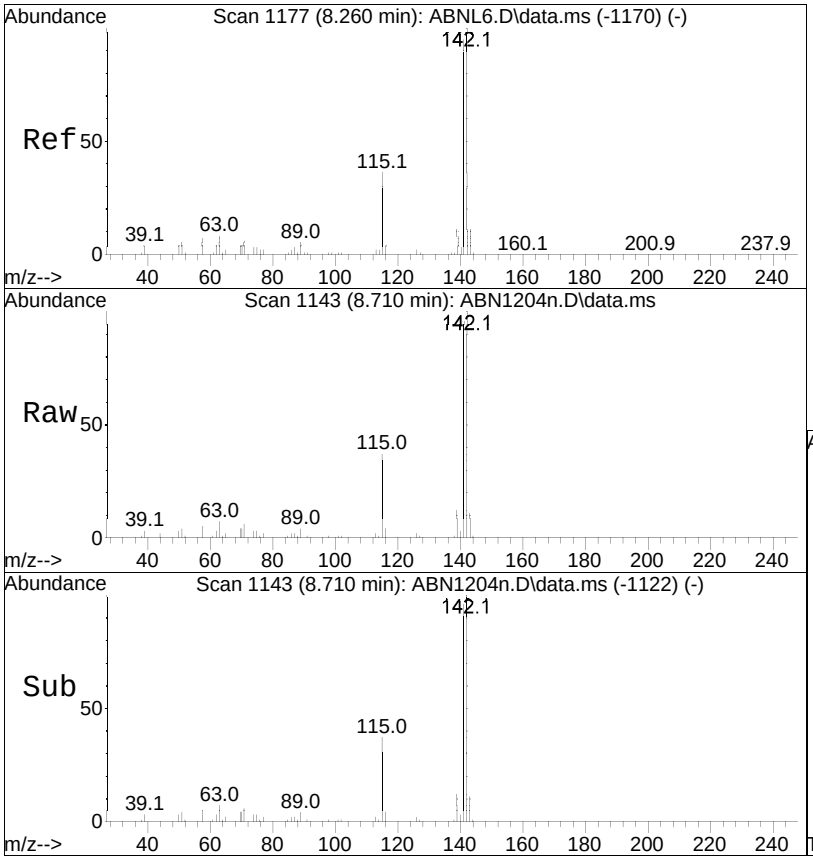


#40
2-Methylnaphthalene
Concen: 4.95 ug/ml
RT: 8.616 min Scan# 1127
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:142 Resp: 82219

Ion	Ratio	Lower	Upper
142	100		
141	90.6	69.6	104.4
115	34.0	26.6	40.0

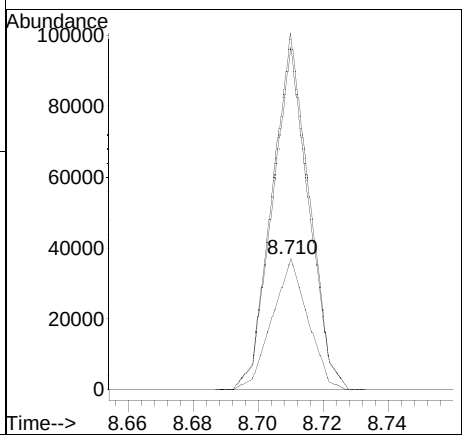


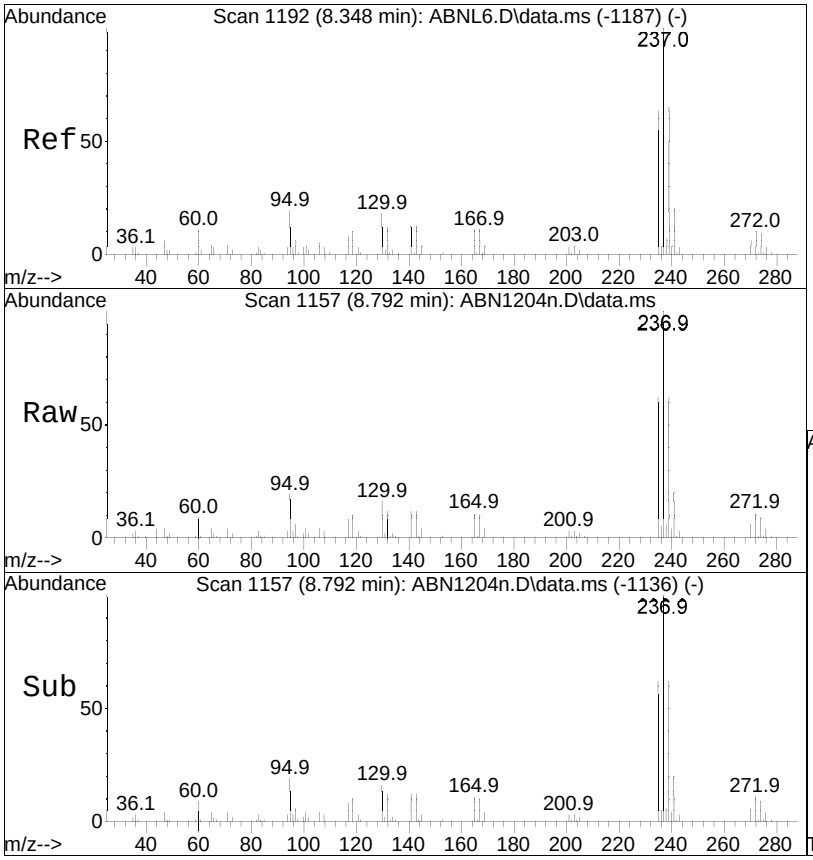


#41
1-Methylnaphthalene
Concen: 4.83 ug/ml
RT: 8.710 min Scan# 1143
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:115 Resp: 28386

Ion	Ratio	Lower	Upper
115	100		
141	263.9	207.8	311.6
142	279.0	226.8	340.2

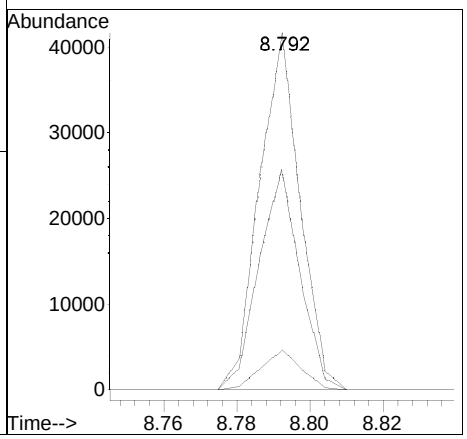


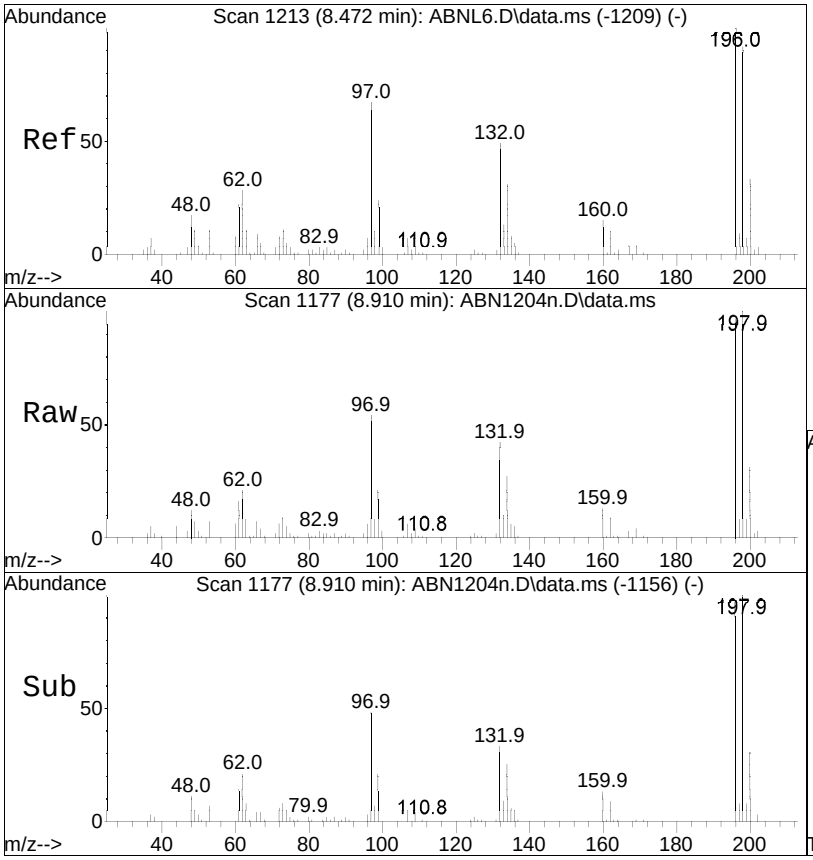


#42
Hexachlorocyclopentadiene
Concen: 5.77 ug/ml
RT: 8.792 min Scan# 1157
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:237 Resp: 31961

Ion	Ratio	Lower	Upper
237	100		
235	62.3	49.7	74.5
272	11.2	9.8	14.6

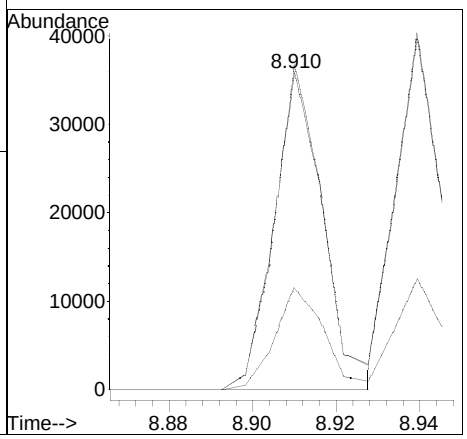


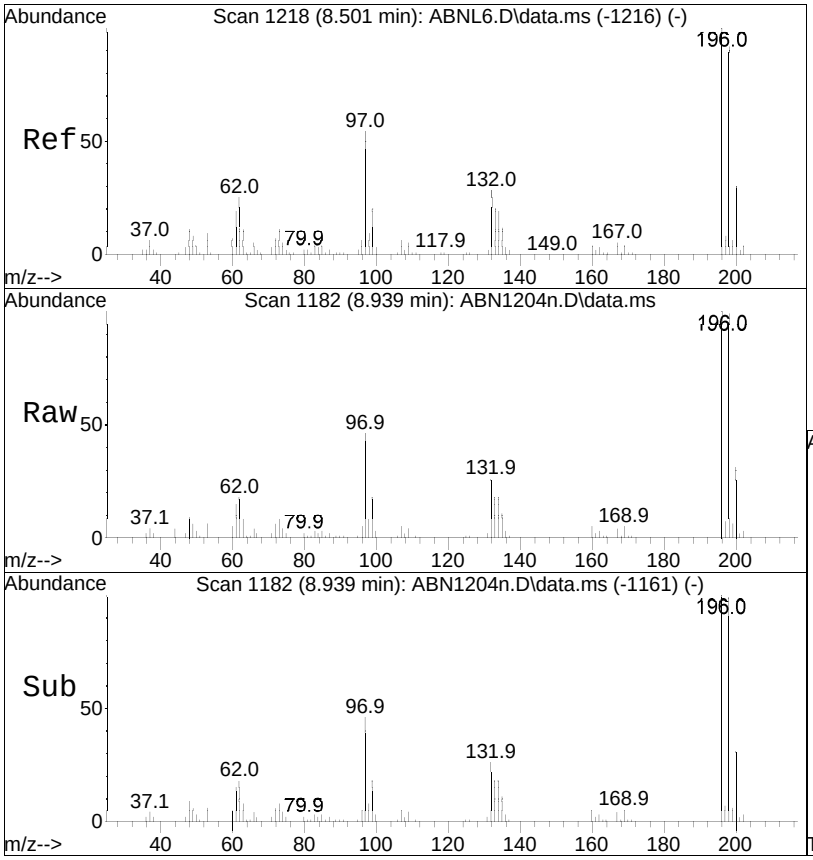


#43
2,4,6-Trichlorophenol
Concen: 5.59 ug/ml
RT: 8.910 min Scan# 1177
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:196 Resp: 29254

Ion	Ratio	Lower	Upper
196	100		
198	100.8	77.5	116.3
200	32.6	23.8	35.6

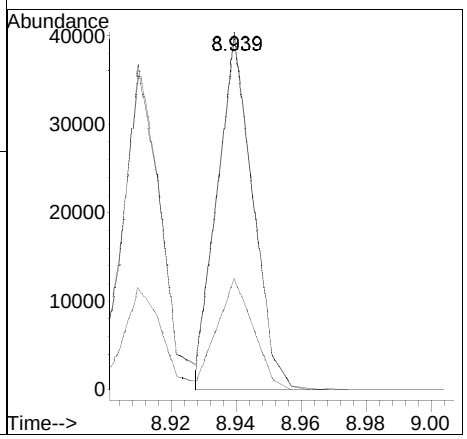


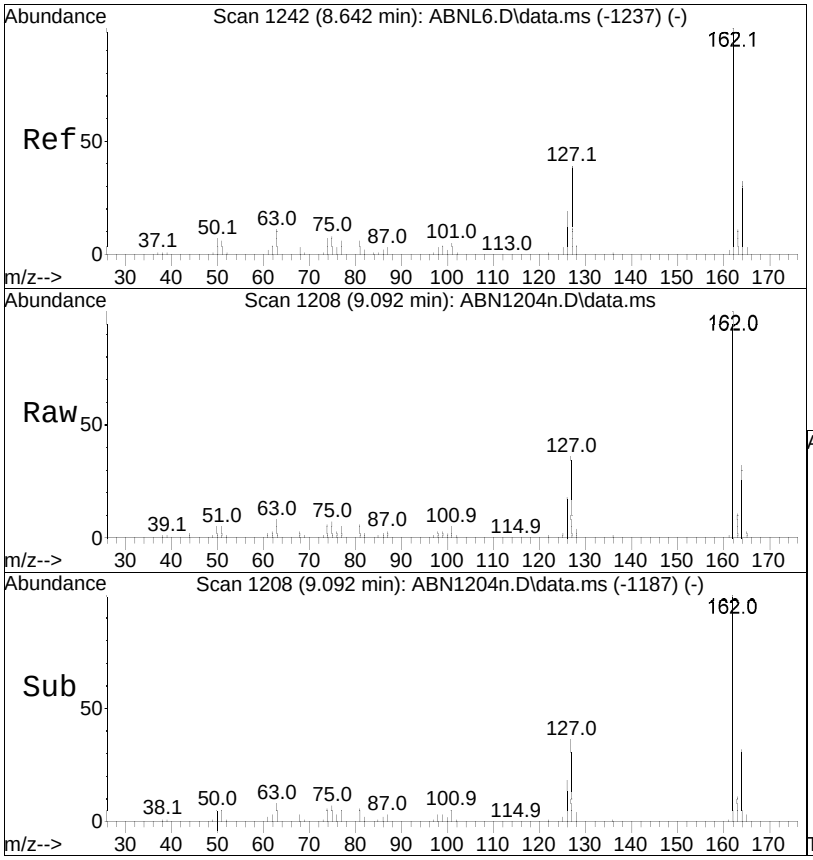


#44
2,4,5-Trichlorophenol
Concen: 5.38 ug/ml
RT: 8.939 min Scan# 1182
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:196 Resp: 30514

Ion	Ratio	Lower	Upper
196	100		
200	31.4	25.4	38.0
198	98.5	78.0	117.0

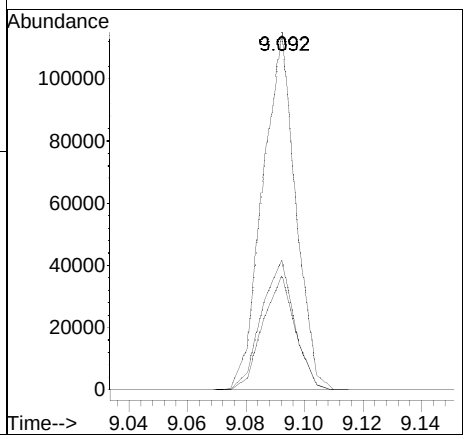


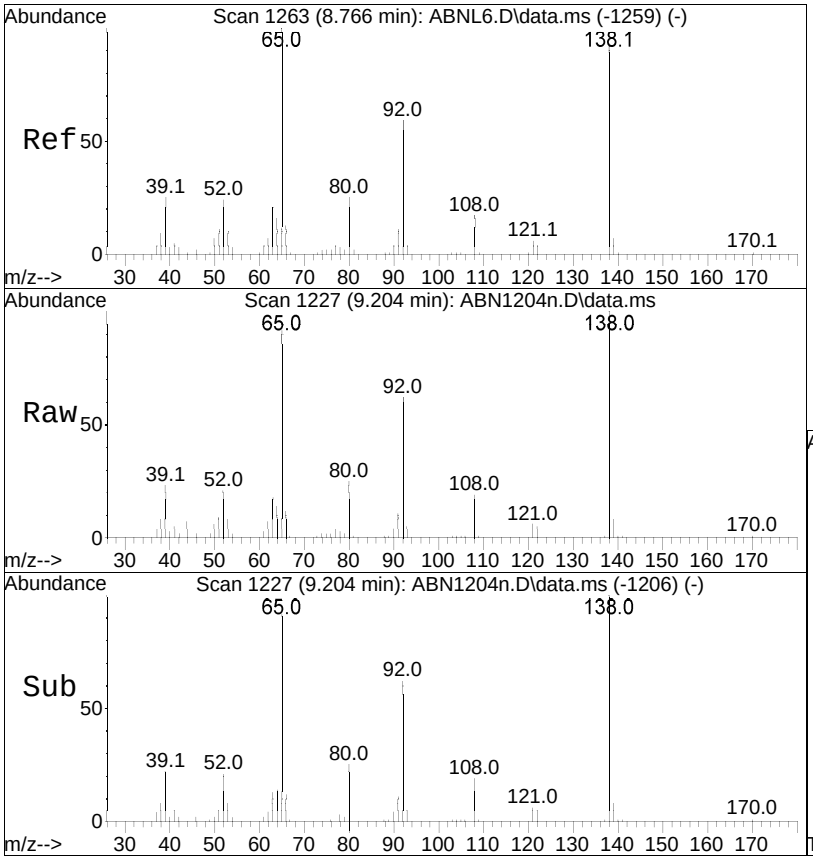


#46
2-Chloronaphthalene
Concen: 5.23 ug/ml
RT: 9.092 min Scan# 1208
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:162 Resp: 89041

Ion	Ratio	Lower	Upper
162	100		
127	36.7	32.2	48.4
164	31.9	25.7	38.5

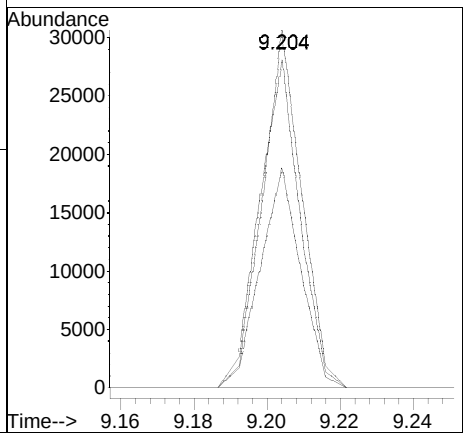


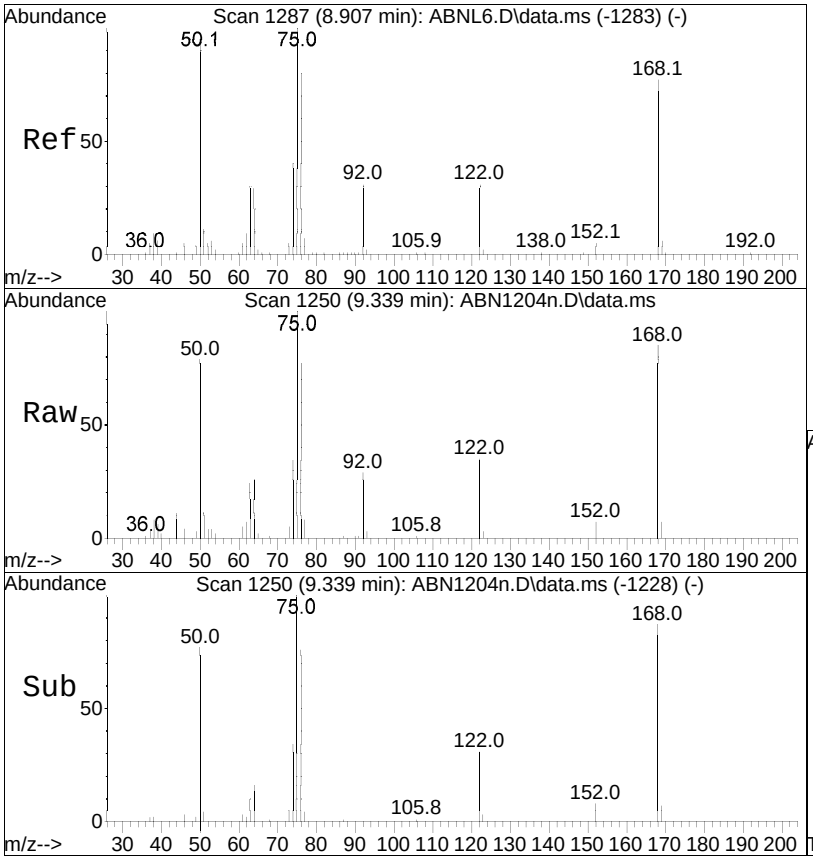


#47
2-Nitroaniline
Concen: 4.46 ug/ml
RT: 9.204 min Scan# 1227
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:138 Resp: 22571

Ion	Ratio	Lower	Upper
138	100		
92	63.6	53.5	80.3
65	94.7	86.3	129.5

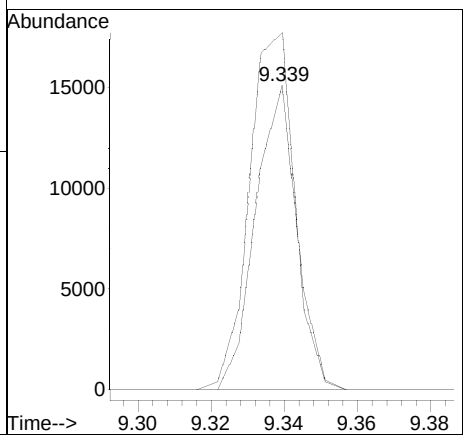


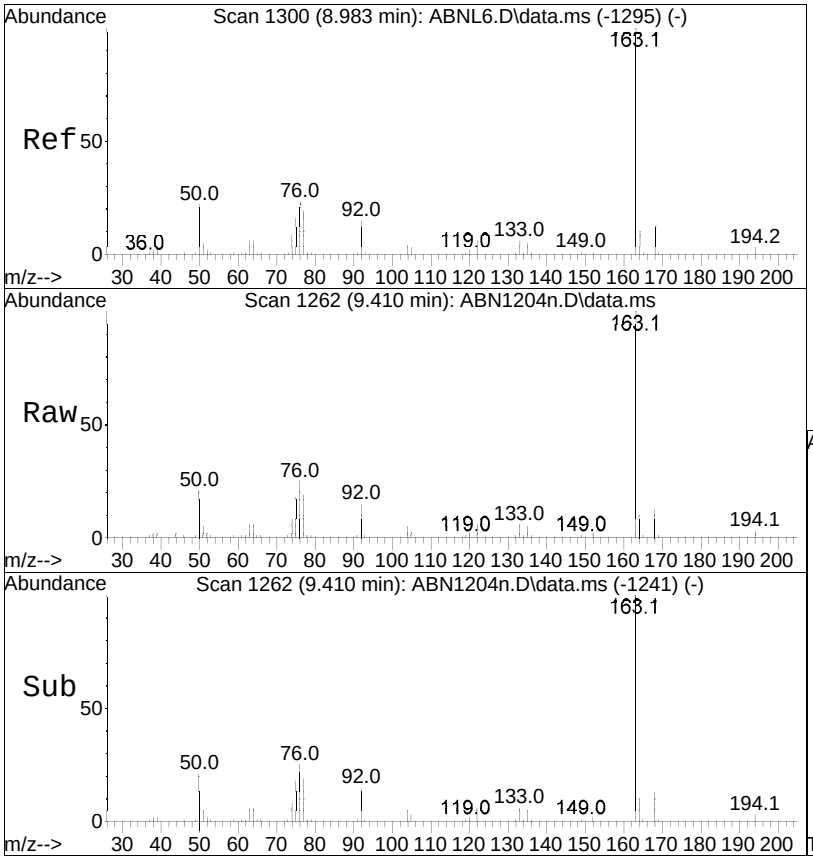


#48
1,4-Dinitrobenzene
Concen: 4.84 ug/ml
RT: 9.339 min Scan# 1250
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:168 Resp: 11923

Ion	Ratio	Lower	Upper
168	100		
75	128.3	121.8	182.8

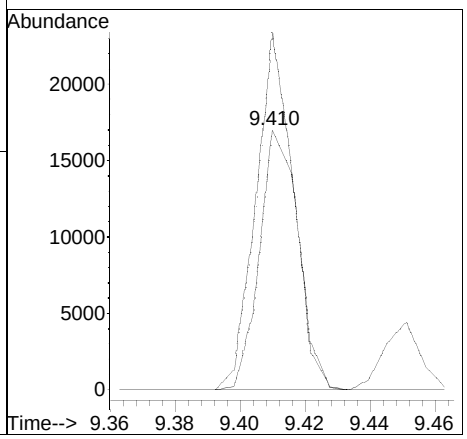


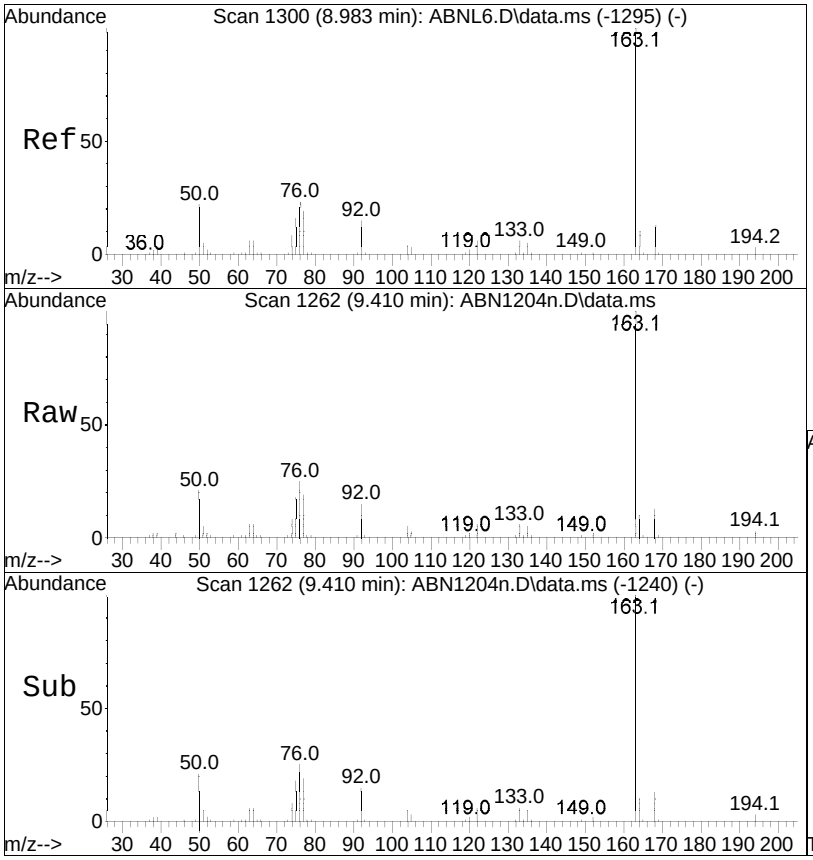


#49
1,3-Dinitrobenzene
Concen: 4.97 ug/ml
RT: 9.410 min Scan# 1262
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:168 Resp: 13985

Ion	Ratio	Lower	Upper
168	100		
75	131.8	22.7	34.1#

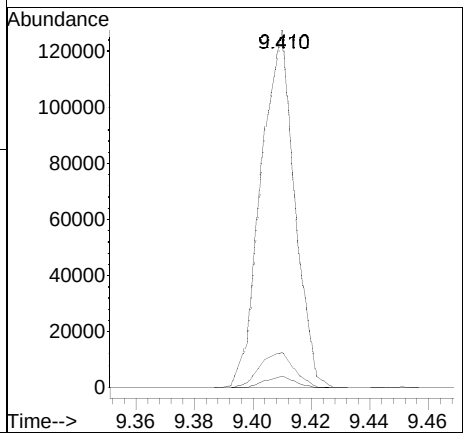


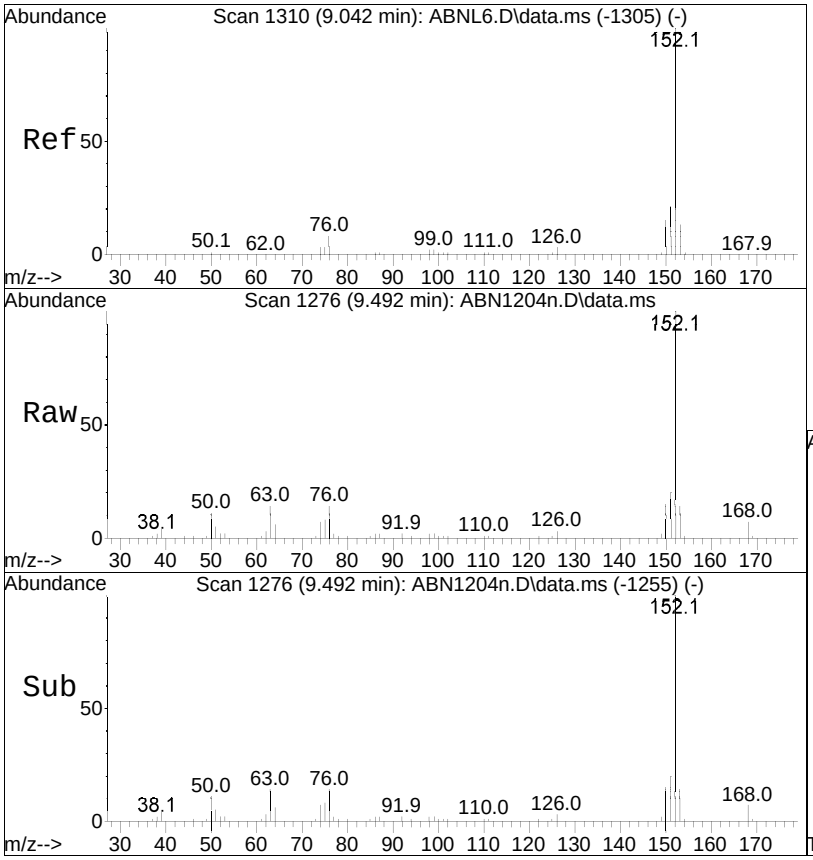


#50
Dimethyl phthalate
Concen: 4.99 ug/ml
RT: 9.410 min Scan# 1262
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:163 Resp: 100920

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.4	7.9	11.9

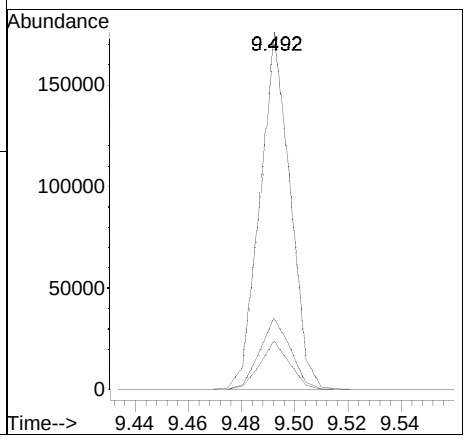


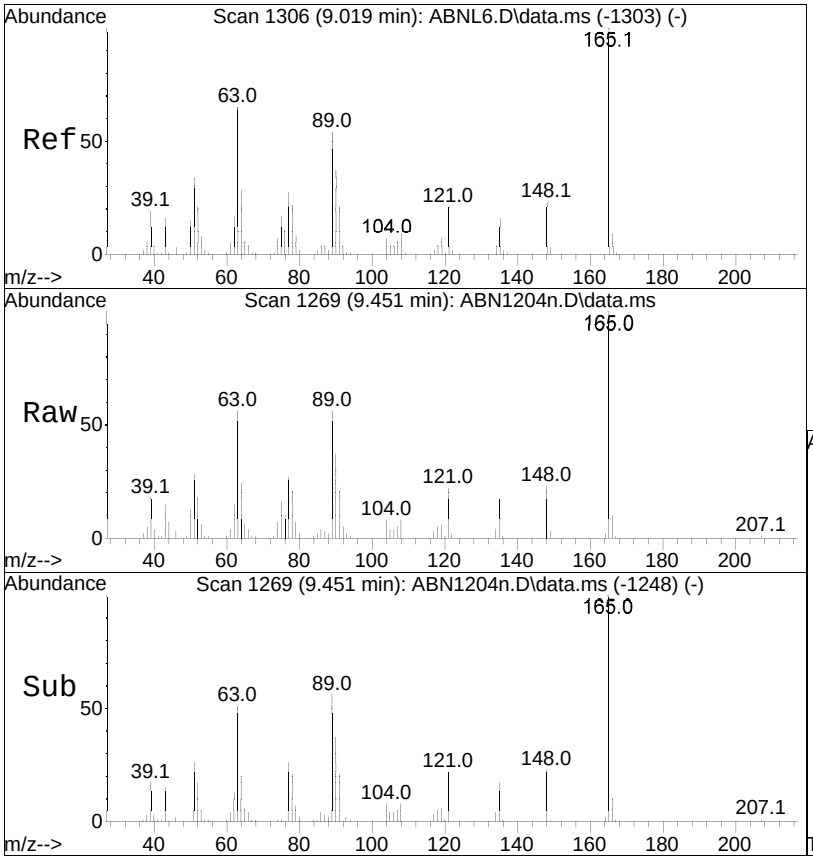


#51
Acenaphthylene
Concen: 4.97 ug/ml
RT: 9.492 min Scan# 1276
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:152 Resp: 136795

Ion	Ratio	Lower	Upper
152	100		
151	20.5	15.8	23.6
153	13.4	10.5	15.7

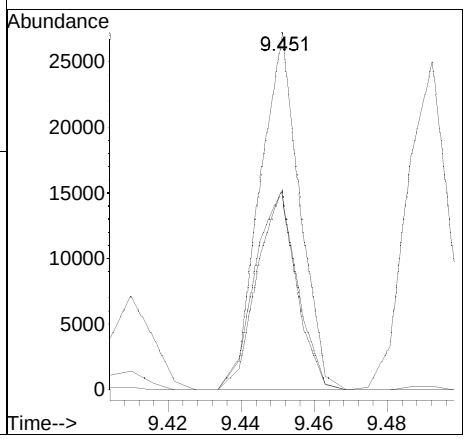


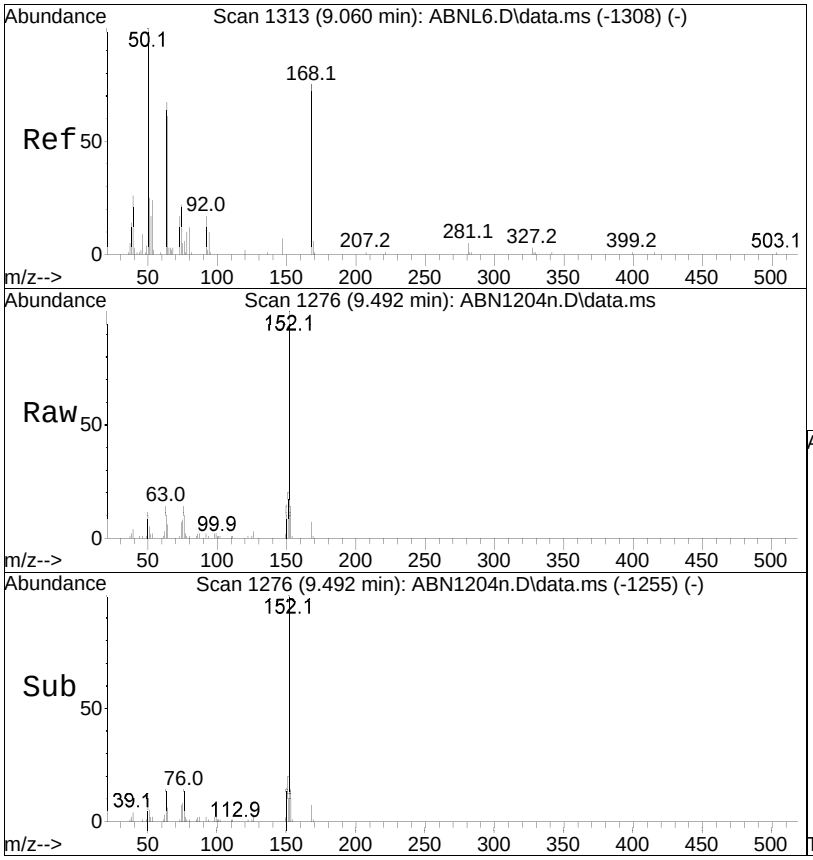


#52
2,6-Dinitrotoluene
Concen: 4.97 ug/ml
RT: 9.451 min Scan# 1269
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:165 Resp: 20625

Ion	Ratio	Lower	Upper
165	100		
89	56.3	54.2	81.2
63	58.0	64.2	96.2#

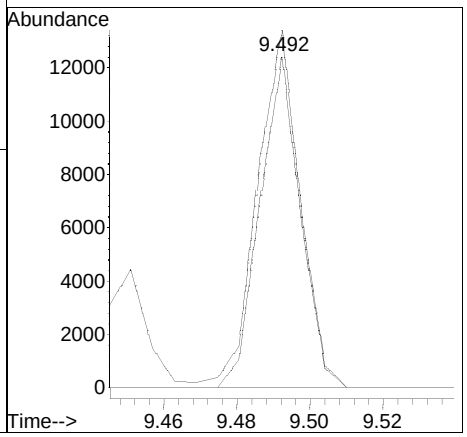


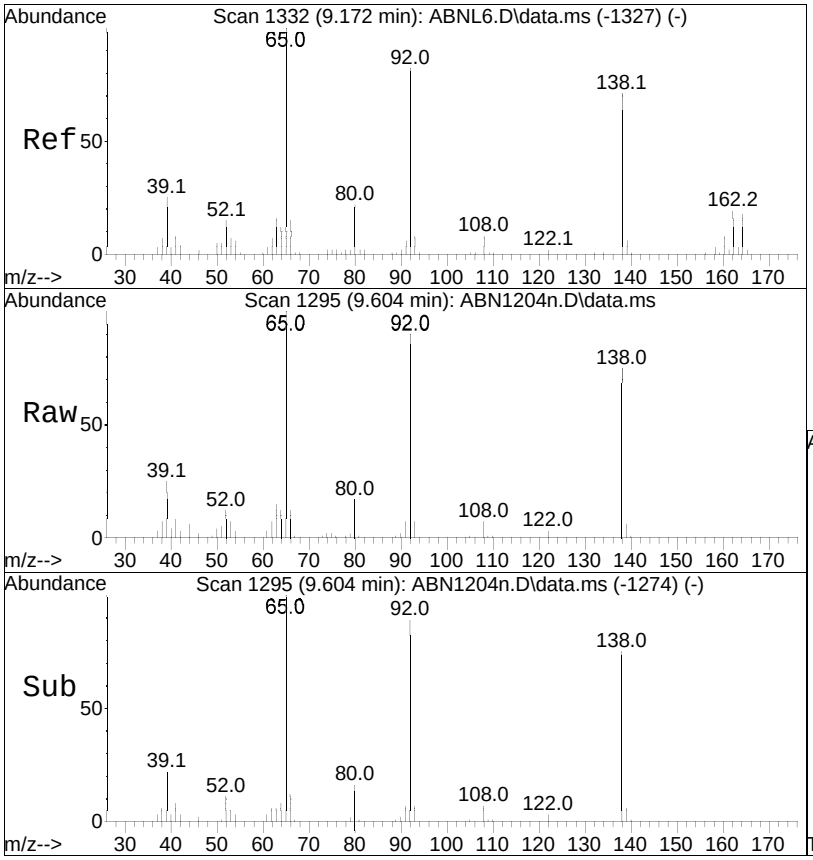


#53
1,2-Dinitrobenzene
Concen: 5.19 ug/ml
RT: 9.492 min Scan# 1276
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:168 Resp: 9449

Ion	Ratio	Lower	Upper
168	100		
75	114.3	30.9	46.3#

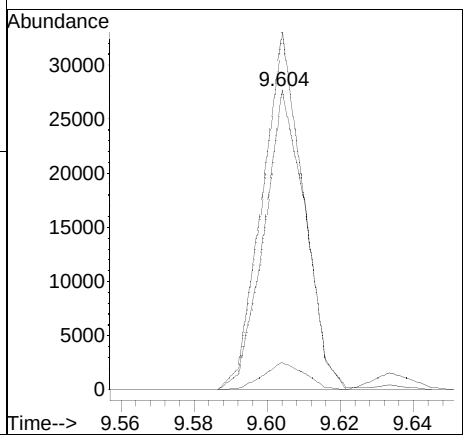


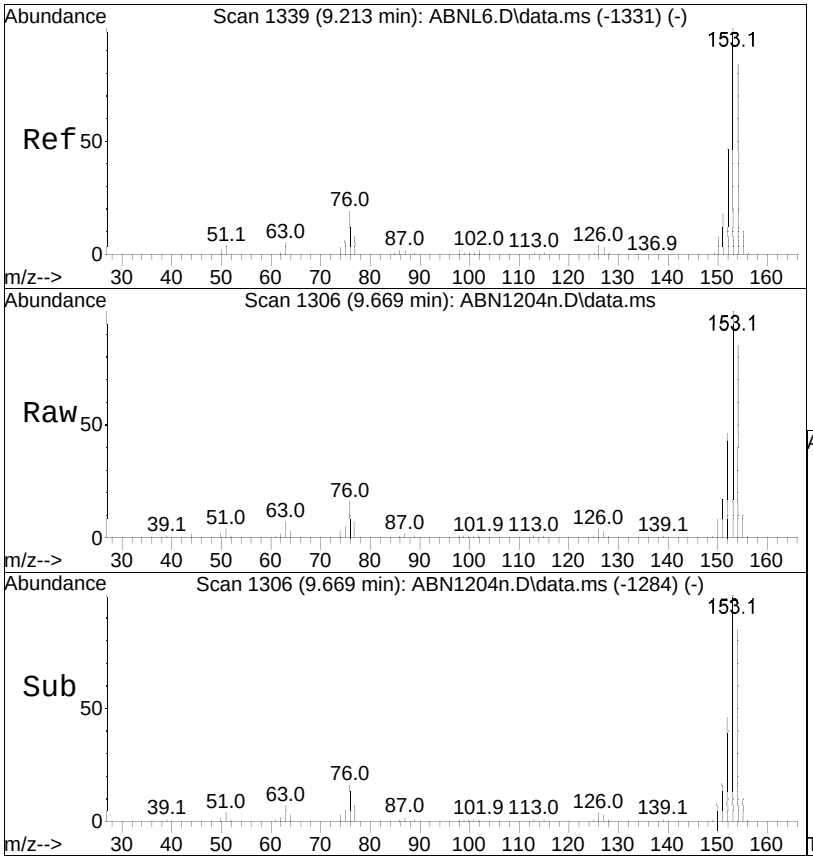


#63
3-Nitroaniline
Concen: 4.86 ug/ml
RT: 9.604 min Scan# 1295
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:138 Resp: 21592

Ion	Ratio	Lower	Upper
138	100		
92	118.1	93.4	140.2
108	9.4	9.5	14.3#

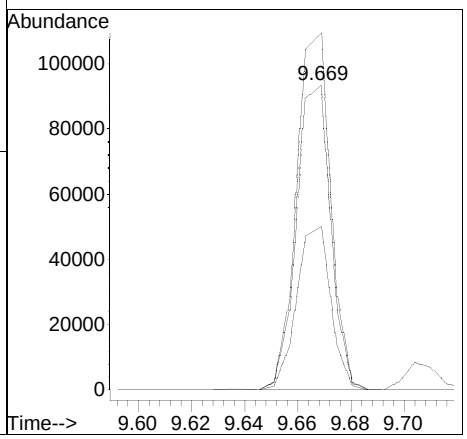


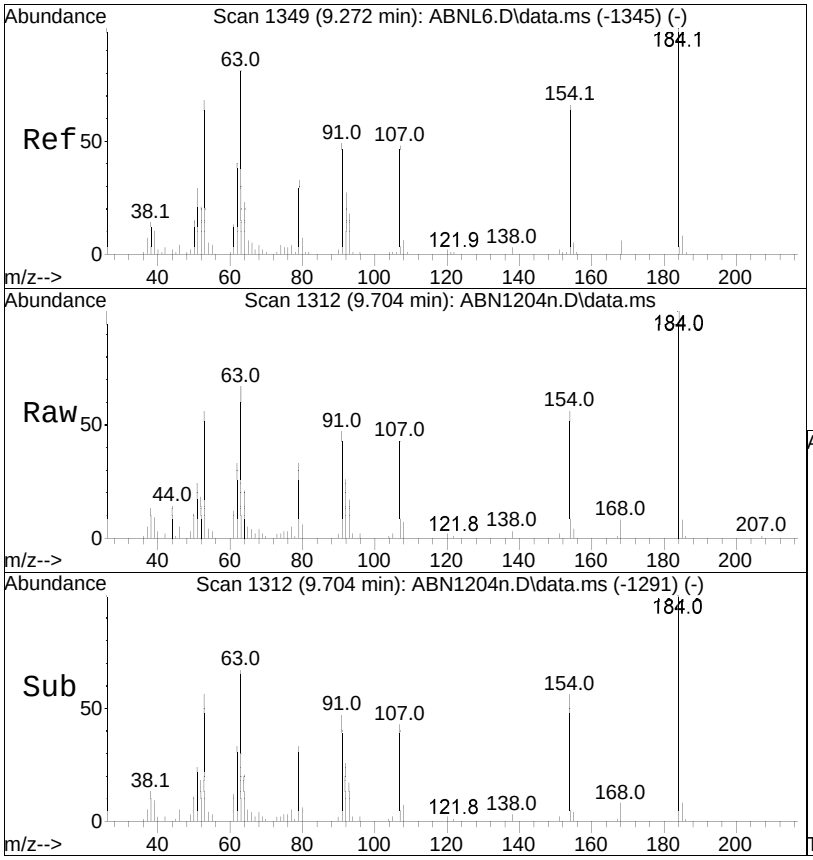


#64
Acenaphthene
Concen: 5.16 ug/ml
RT: 9.669 min Scan# 1306
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:154 Resp: 83702

Ion	Ratio	Lower	Upper
154	100		
153	116.7	85.3	127.9
152	53.7	41.4	62.0

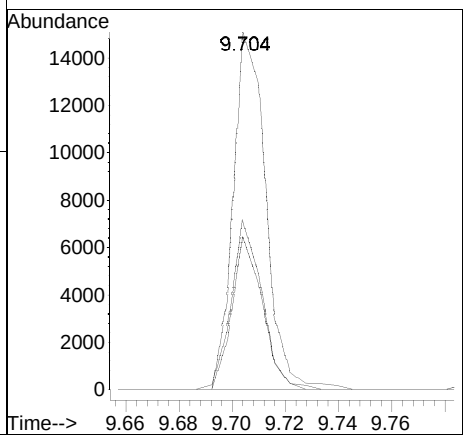


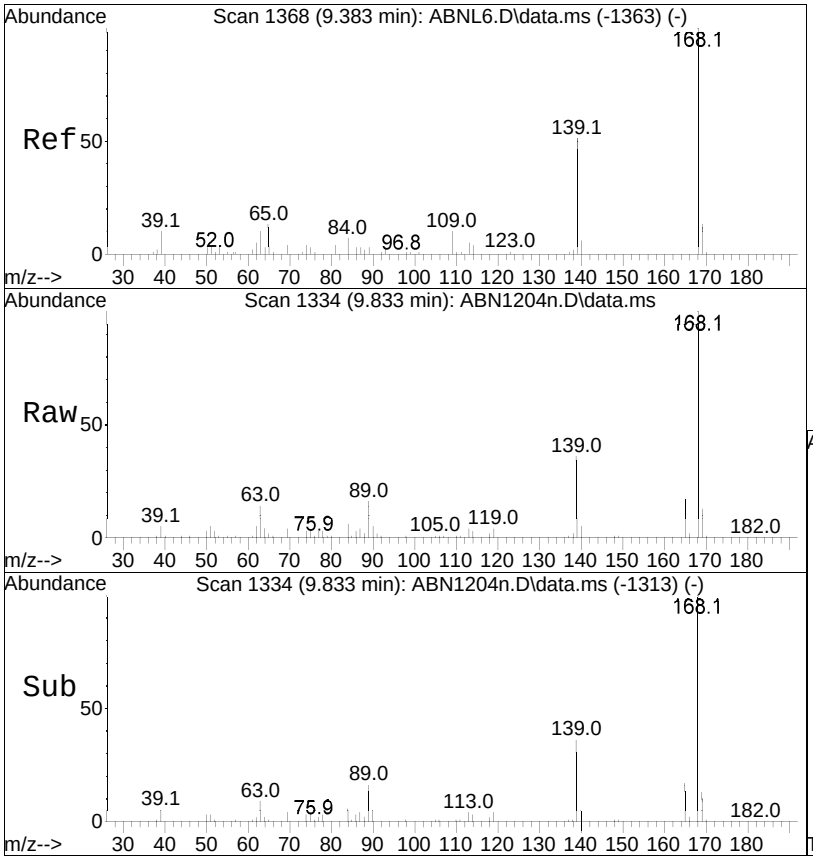


#65
2,4-Dinitrophenol
Concen: 5.48 ug/ml
RT: 9.704 min Scan# 1312
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:184 Resp: 12775

Ion	Ratio	Lower	Upper
184	100		
107	40.4	37.7	56.5
91	44.8	46.3	69.5#

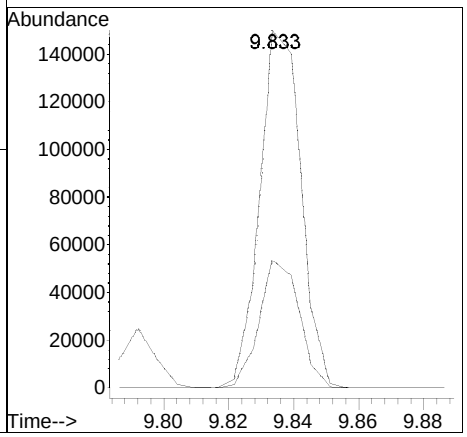


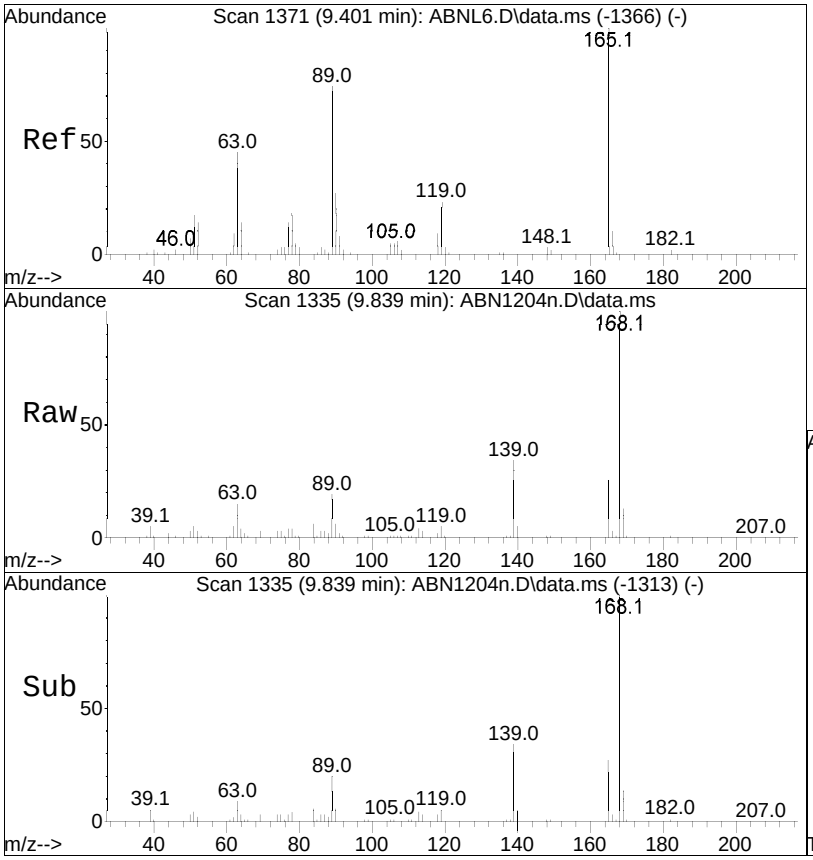


#66
Dibenzofuran
Concen: 5.40 ug/ml
RT: 9.833 min Scan# 1334
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:168 Resp: 131324

Ion	Ratio	Lower	Upper
168	100		
139	35.0	31.4	47.2

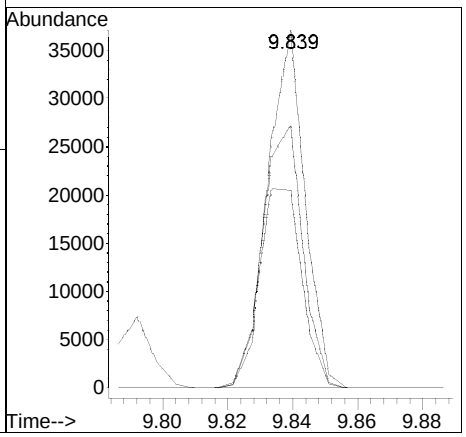


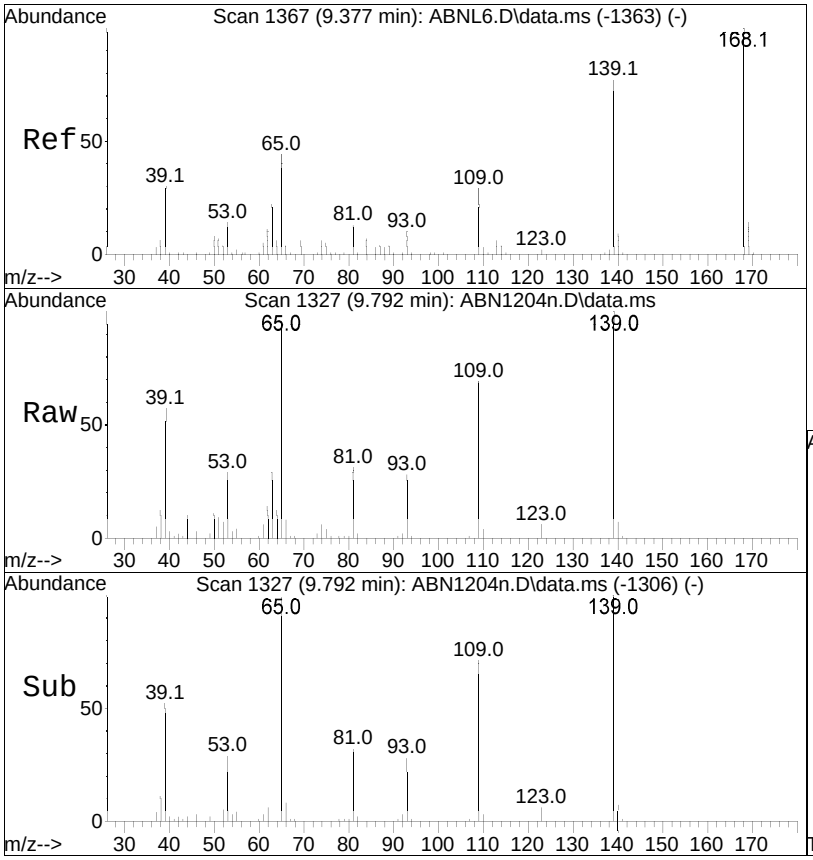


#67
2,4-Dinitrotoluene
Concen: 5.09 ug/ml
RT: 9.839 min Scan# 1335
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:165 Resp: 29242

Ion	Ratio	Lower	Upper
165	100		
89	79.6	72.0	108.0
63	65.1	52.7	79.1

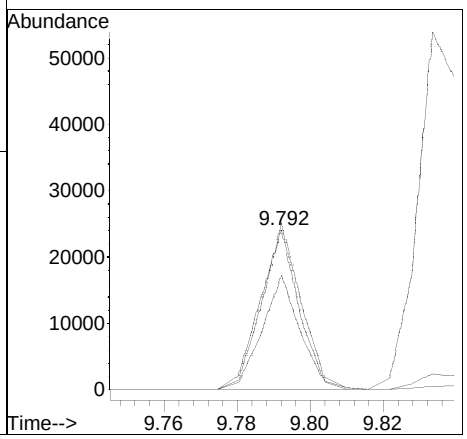


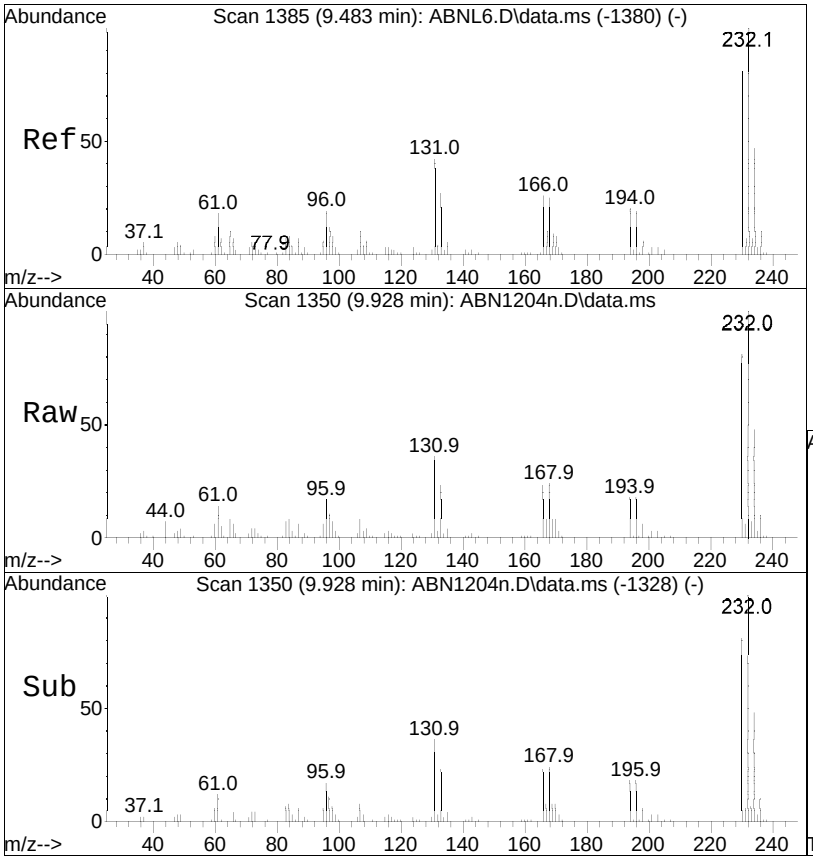


#68
4-Nitrophenol
Concen: 3.99 ug/ml
RT: 9.792 min Scan# 1327
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 65 Resp: 17872

Ion	Ratio	Lower	Upper
65	100		
109	69.1	47.4	71.2
139	103.4	76.6	115.0

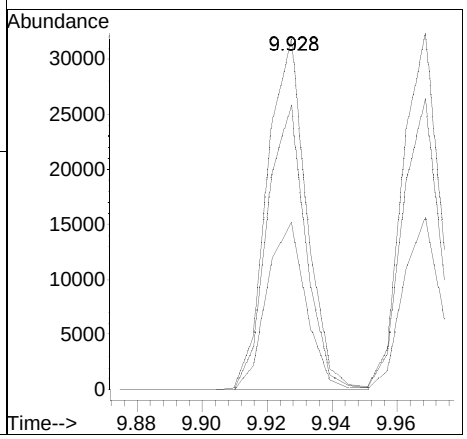


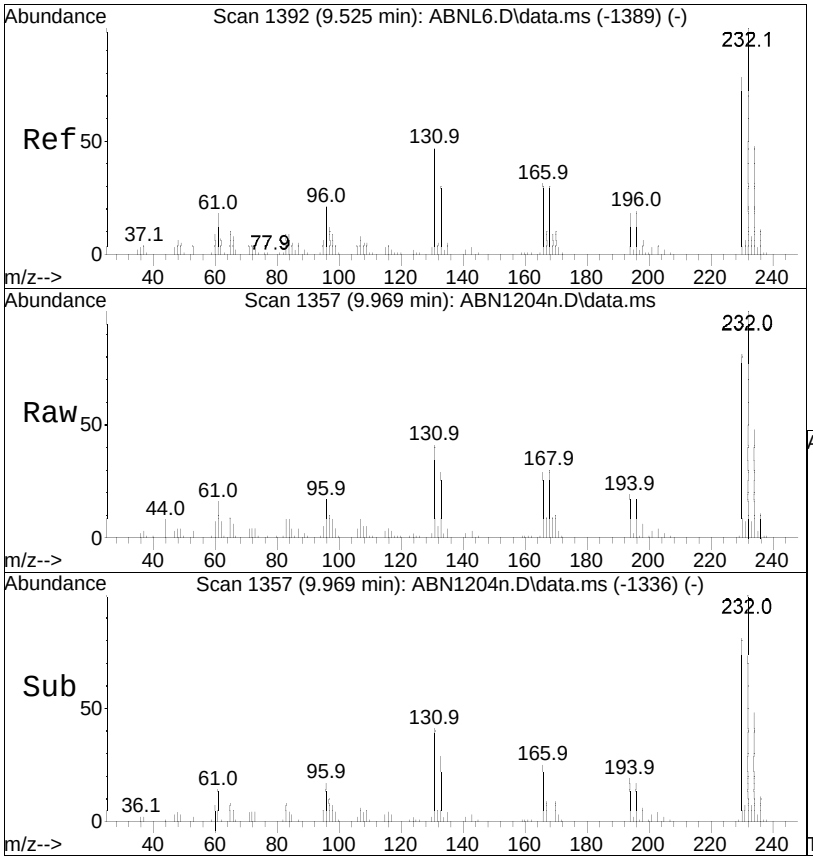


#69
2,3,5,6-Tetrachlorophenol
Concen: 6.06 ug/ml
RT: 9.928 min Scan# 1350
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:232 Resp: 27032

Ion	Ratio	Lower	Upper
232	100		
230	79.2	64.2	96.4
234	47.3	38.1	57.1

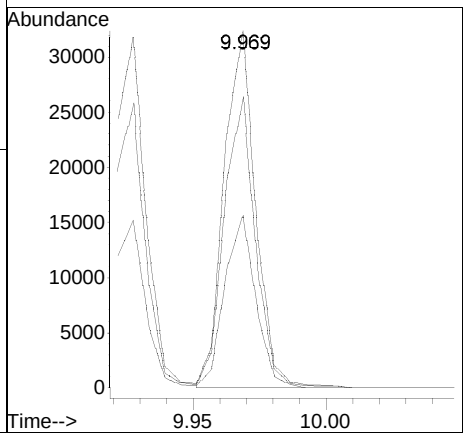


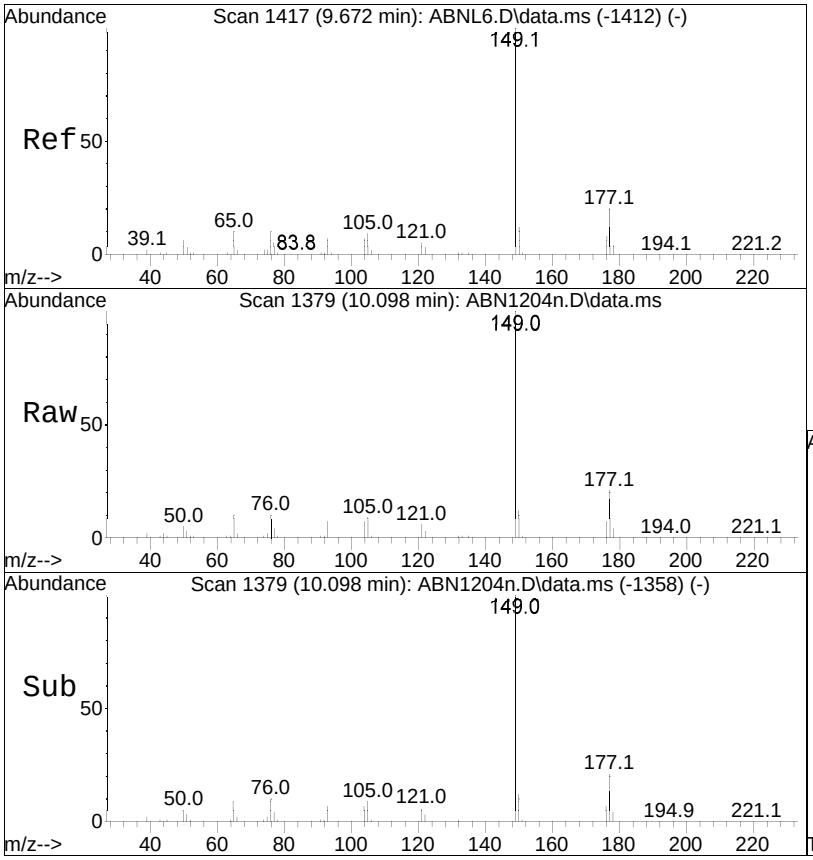


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.43 ug/ml
RT: 9.969 min Scan# 1357
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:232 Resp: 26682

Ion	Ratio	Lower	Upper
232	100		
230	80.8	61.8	92.8
234	47.5	36.2	54.2

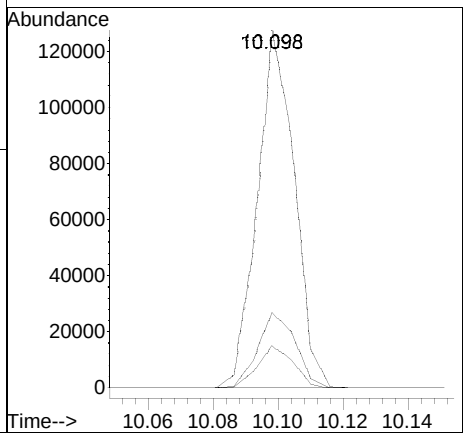


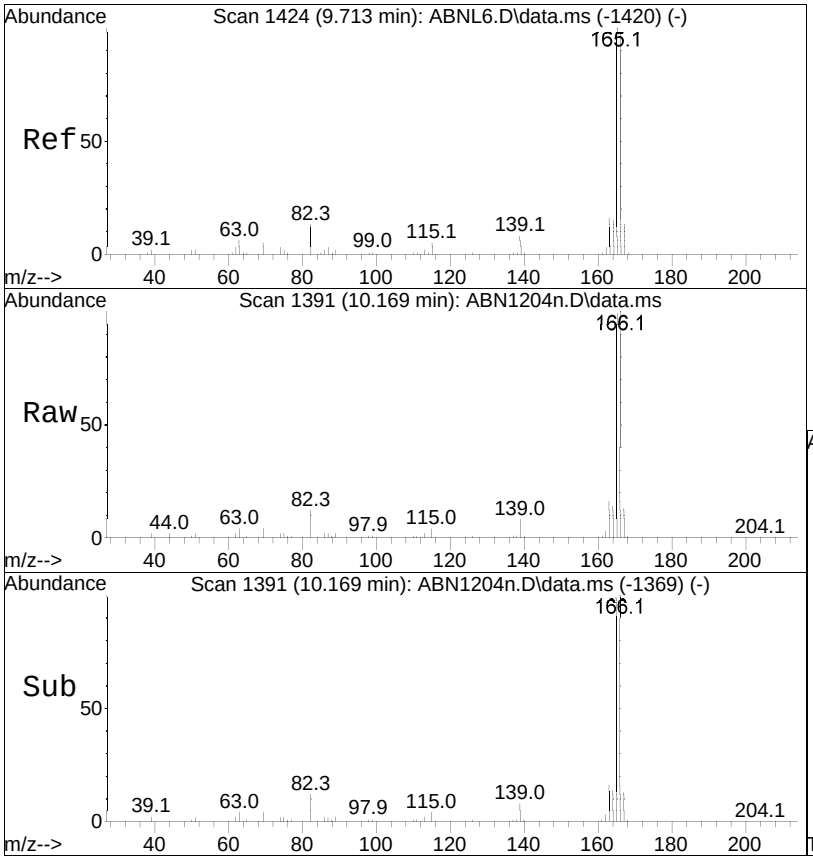


#71
Diethyl phthalate
Concen: 5.13 ug/ml
RT: 10.098 min Scan# 1379
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:149 Resp: 99864

Ion	Ratio	Lower	Upper
149	100		
177	21.6	16.1	24.1
150	11.7	9.4	14.2

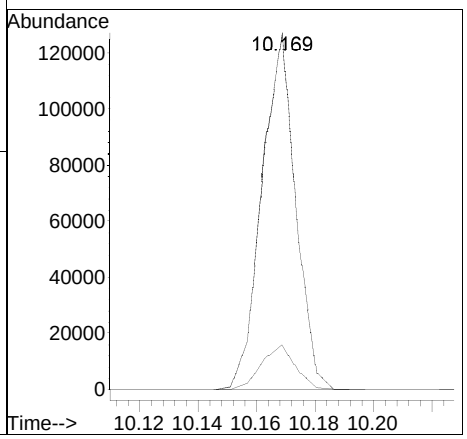


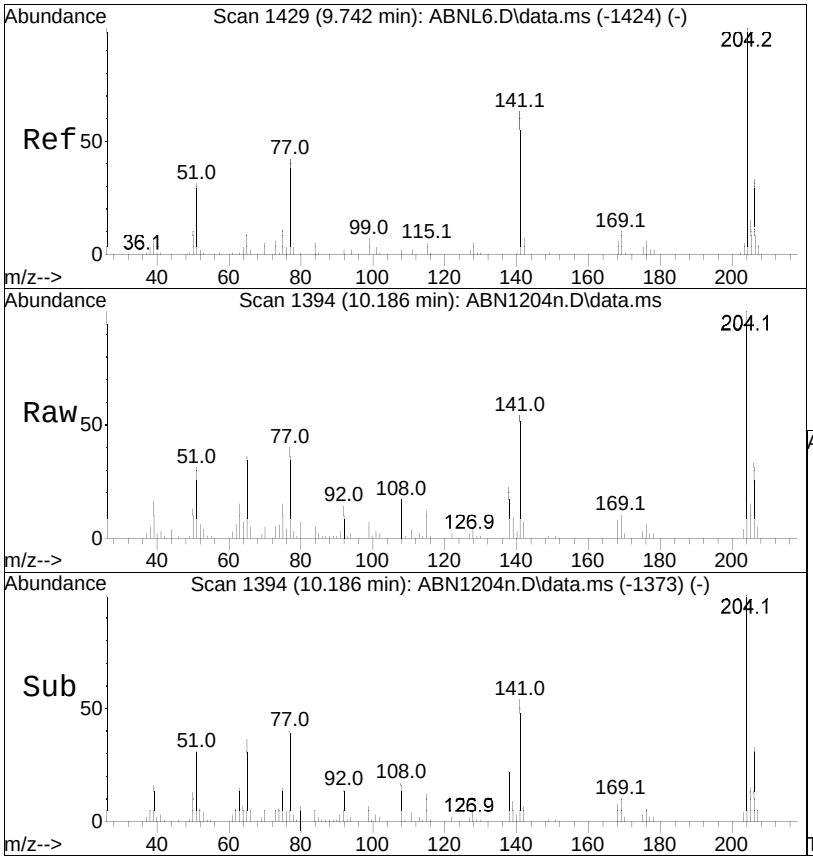


#72
Fluorene
Concen: 5.38 ug/ml
RT: 10.169 min Scan# 1391
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:166 Resp: 101429

Ion	Ratio	Lower	Upper
166	100		
165	100.2	76.2	114.2
167	13.0	10.6	15.8

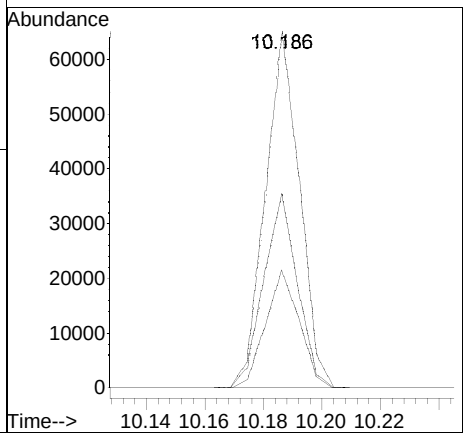


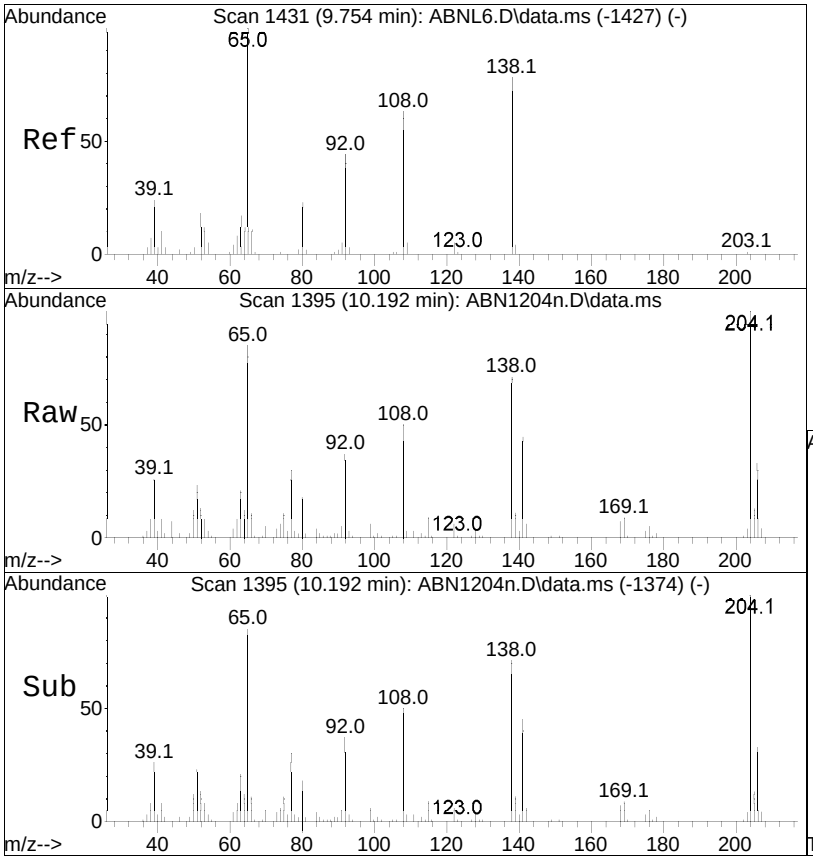


#73
4-Chlorophenyl phenyl ether
Concen: 5.44 ug/ml
RT: 10.186 min Scan# 1394
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:204 Resp: 52372

Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.8	38.6
141	53.8	53.6	80.4

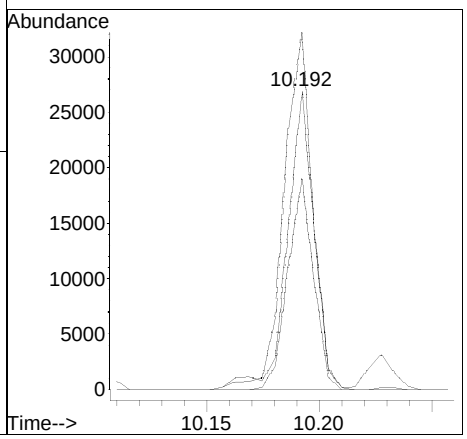


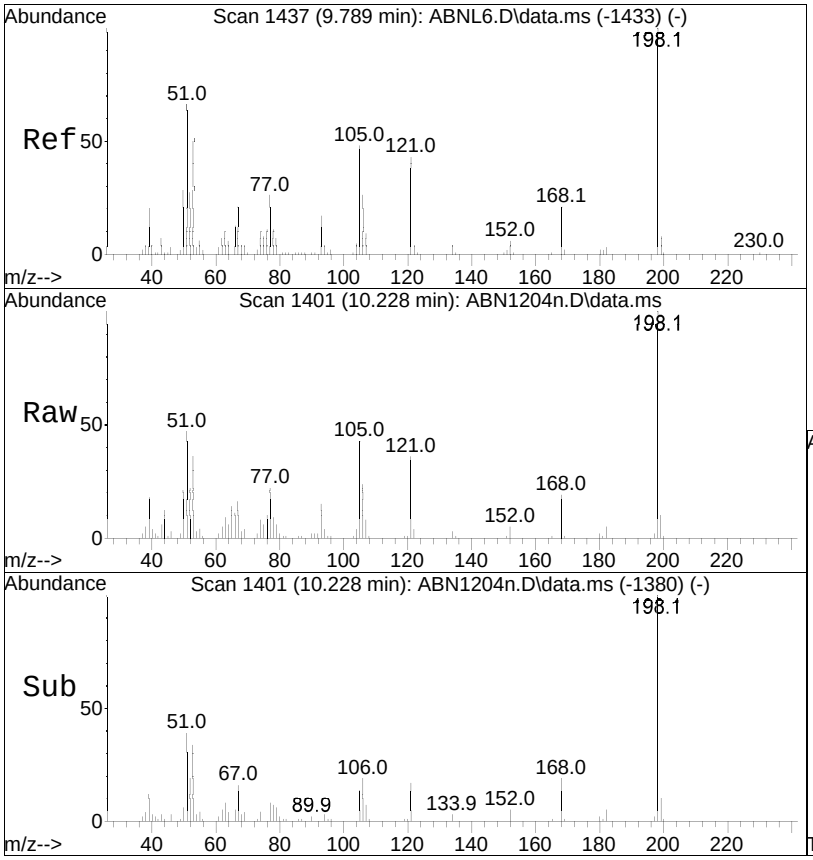


#74
4-Nitroaniline
Concen: 5.06 ug/ml
RT: 10.192 min Scan# 1395
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:138 Resp: 22402

Ion	Ratio	Lower	Upper
138	100		
108	67.4	52.1	78.1
65	126.2	115.0	172.6

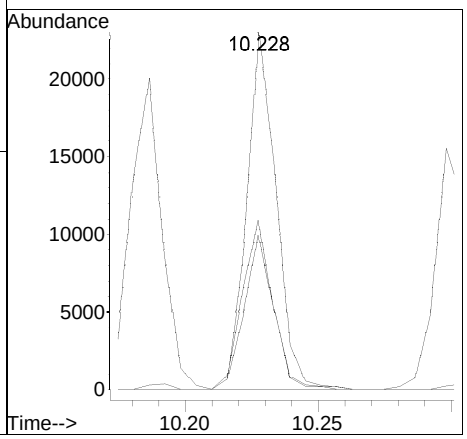


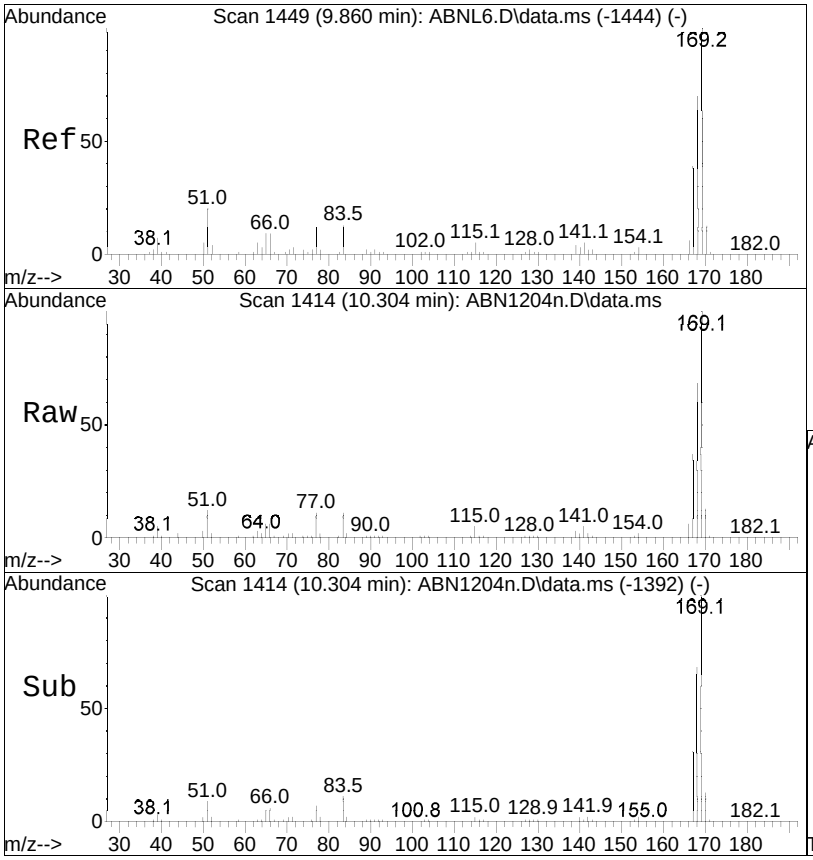


#75
4,6-Dinitro-o-cresol
Concen: 5.70 ug/ml
RT: 10.228 min Scan# 1401
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:198 Resp: 17733

Ion	Ratio	Lower	Upper
198	100		
51	48.8	76.0	114.0#
105	43.3	45.6	68.4#

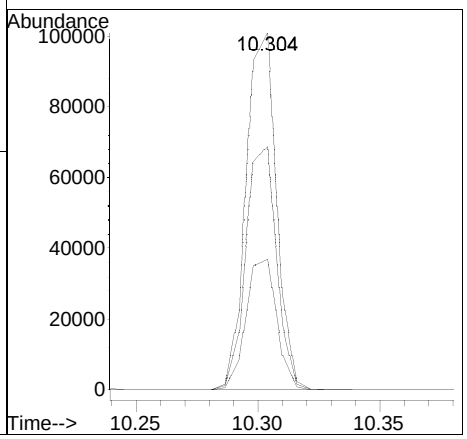


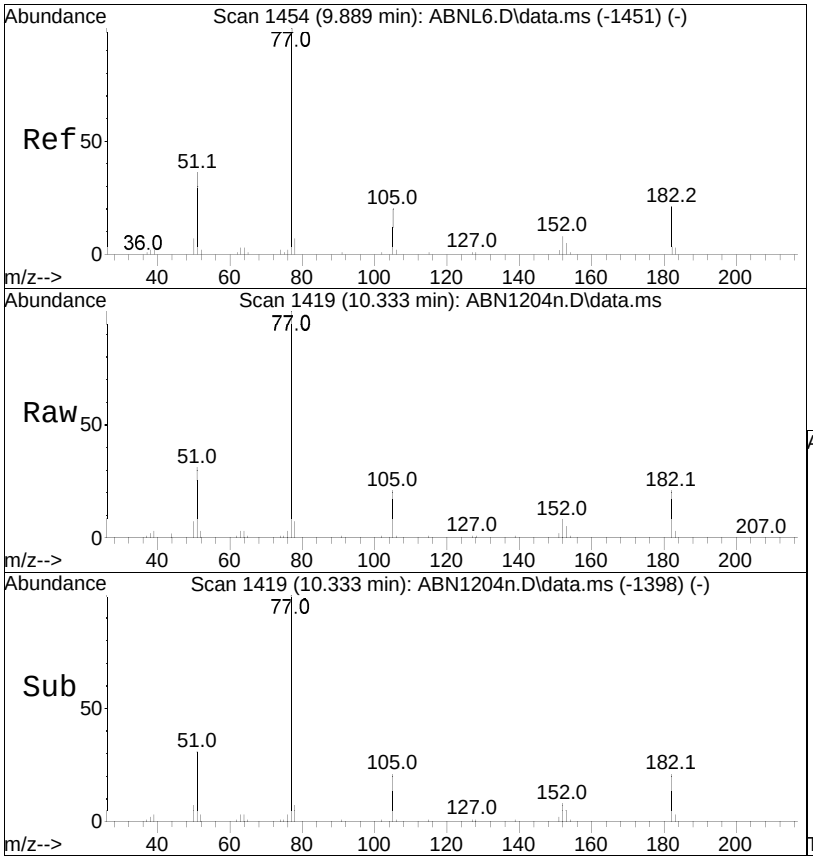


#76
NDPA/DPA
Concen: 5.52 ug/ml
RT: 10.304 min Scan# 1414
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:169 Resp: 87544

Ion	Ratio	Lower	Upper
169	100		
168	68.9	54.0	81.0
167	37.2	28.6	42.8

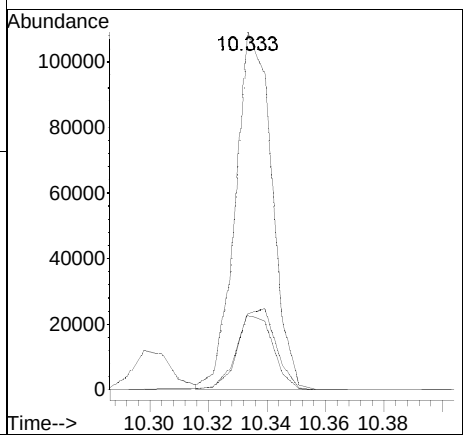


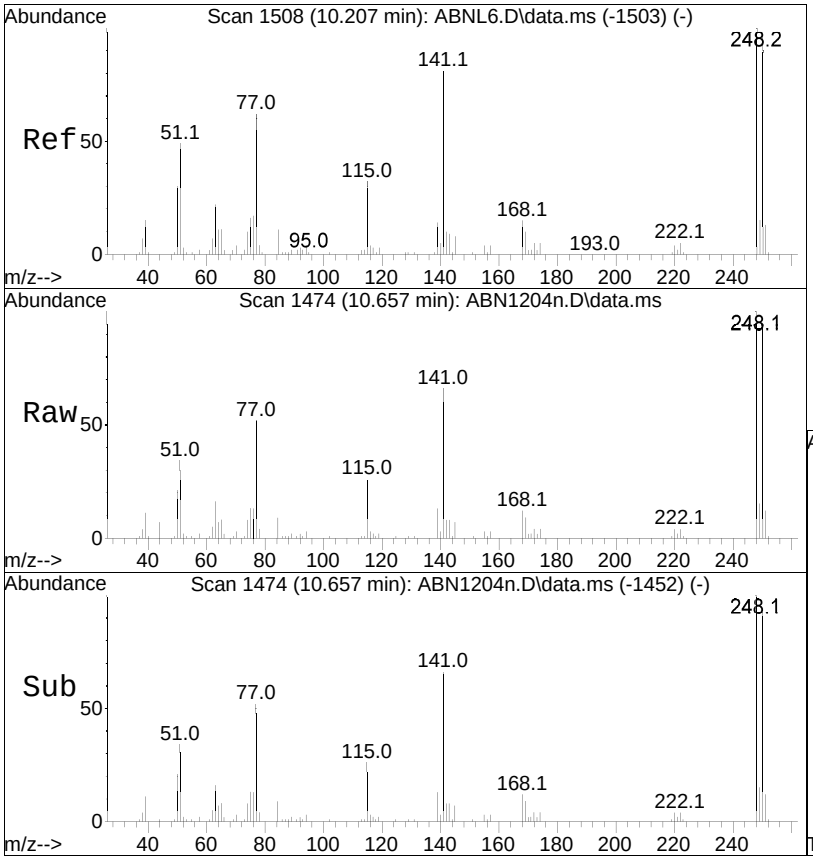


#77
Azobenzene
Concen: 4.89 ug/ml
RT: 10.333 min Scan# 1419
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion: 77 Resp: 93902

Ion	Ratio	Lower	Upper
77	100		
182	23.8	17.4	26.2
105	21.7	15.4	23.2

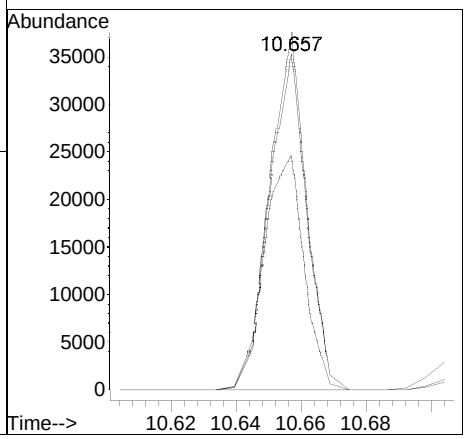


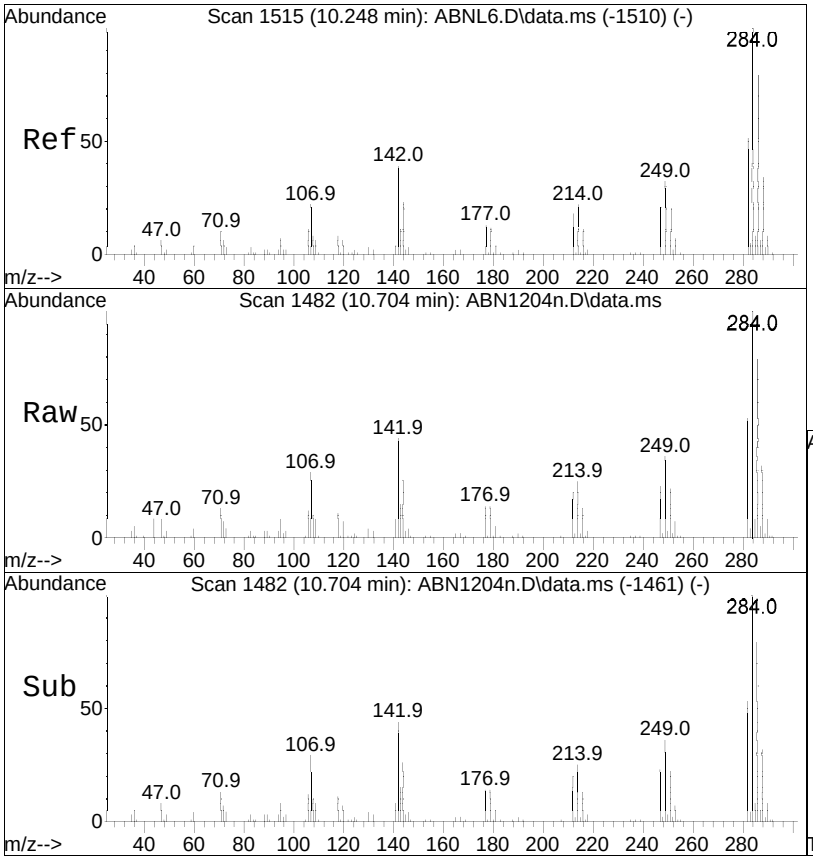


#79
4-Bromophenyl phenyl ether
Concen: 5.75 ug/ml
RT: 10.657 min Scan# 1474
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:248 Resp: 29443

Ion	Ratio	Lower	Upper
248	100		
141	70.9	76.6	114.8#
250	94.9	77.3	115.9

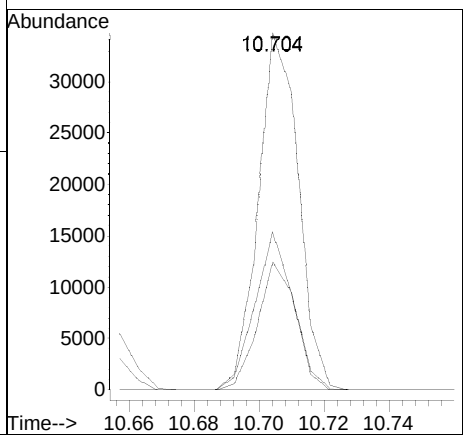


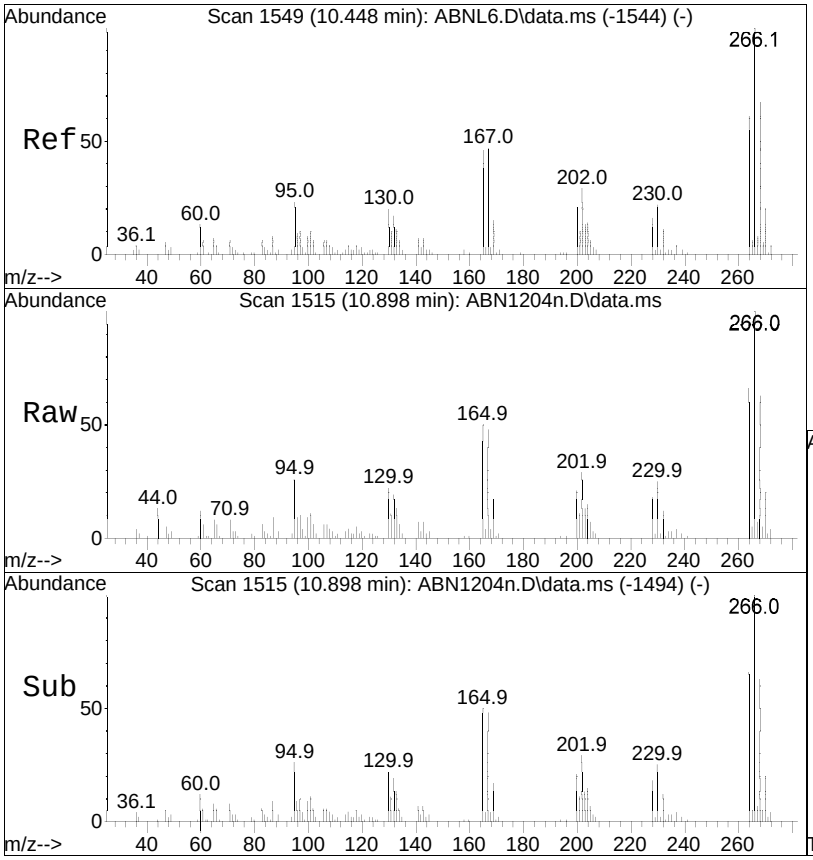


#80
Hexachlorobenzene
Concen: 5.50 ug/ml
RT: 10.704 min Scan# 1482
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:284 Resp: 29579

Ion	Ratio	Lower	Upper
284	100		
142	41.8	41.9	62.9#
249	34.9	24.1	36.1

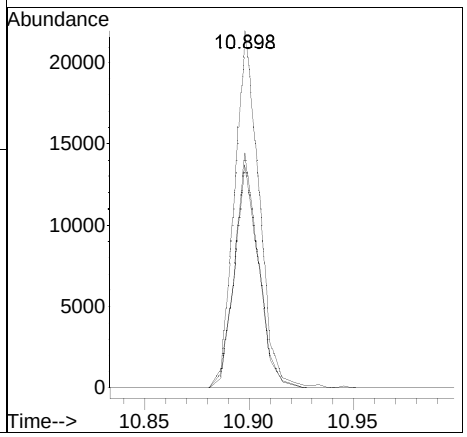


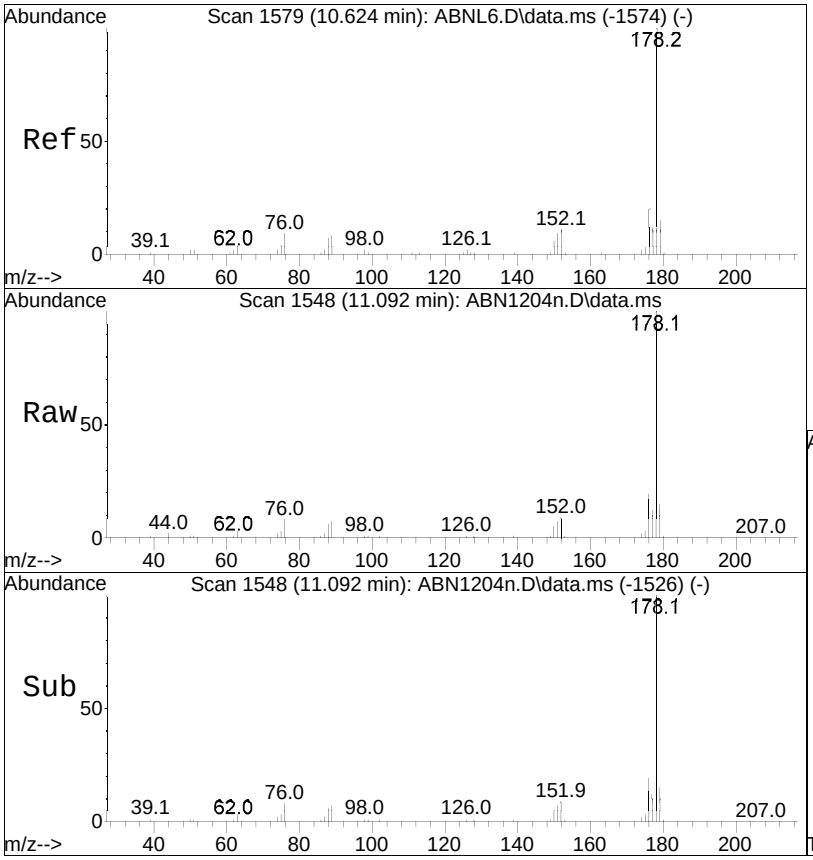


#81
Pentachlorophenol
Concen: 5.46 ug/ml
RT: 10.898 min Scan# 1515
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:266 Resp: 18015

Ion	Ratio	Lower	Upper
266	100		
264	63.9	49.7	74.5
268	60.9	50.5	75.7

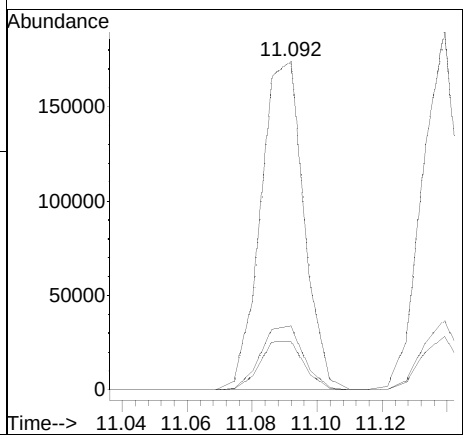


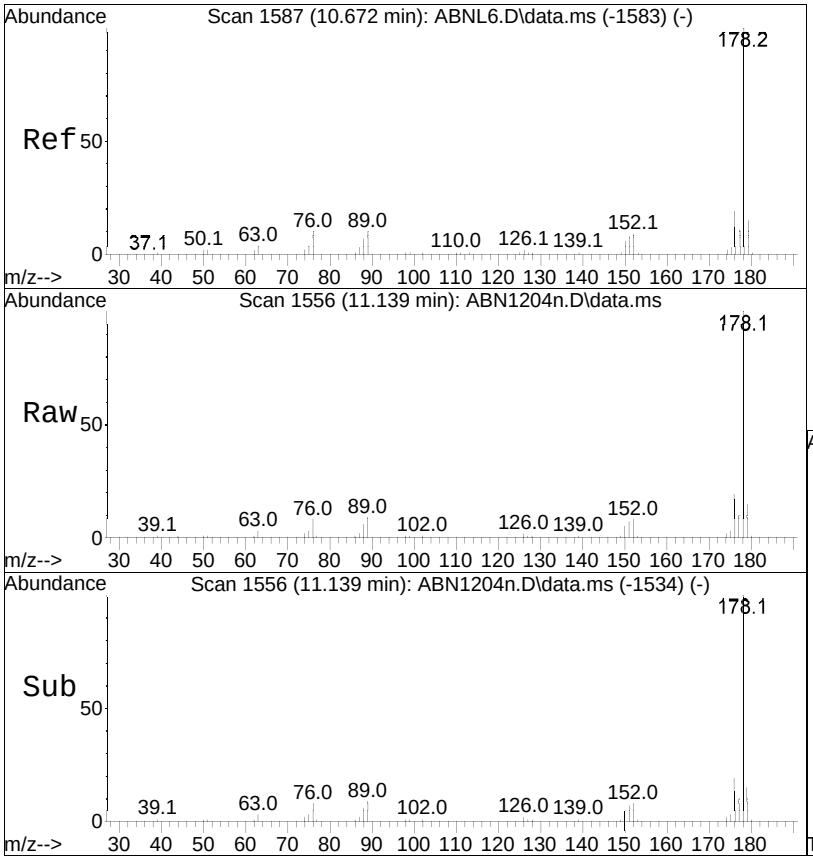


#88
Phenanthrene
Concen: 4.81 ug/ml
RT: 11.092 min Scan# 1548
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:178 Resp: 160214

Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.2	18.2
176	19.4	15.4	23.2

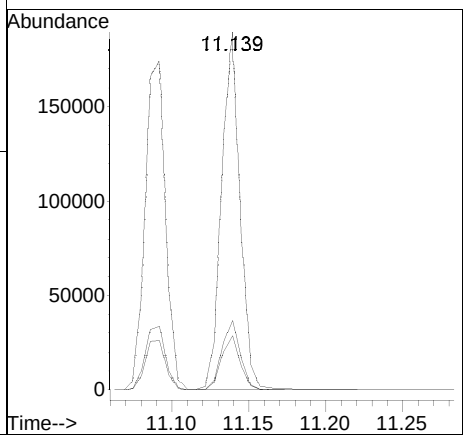


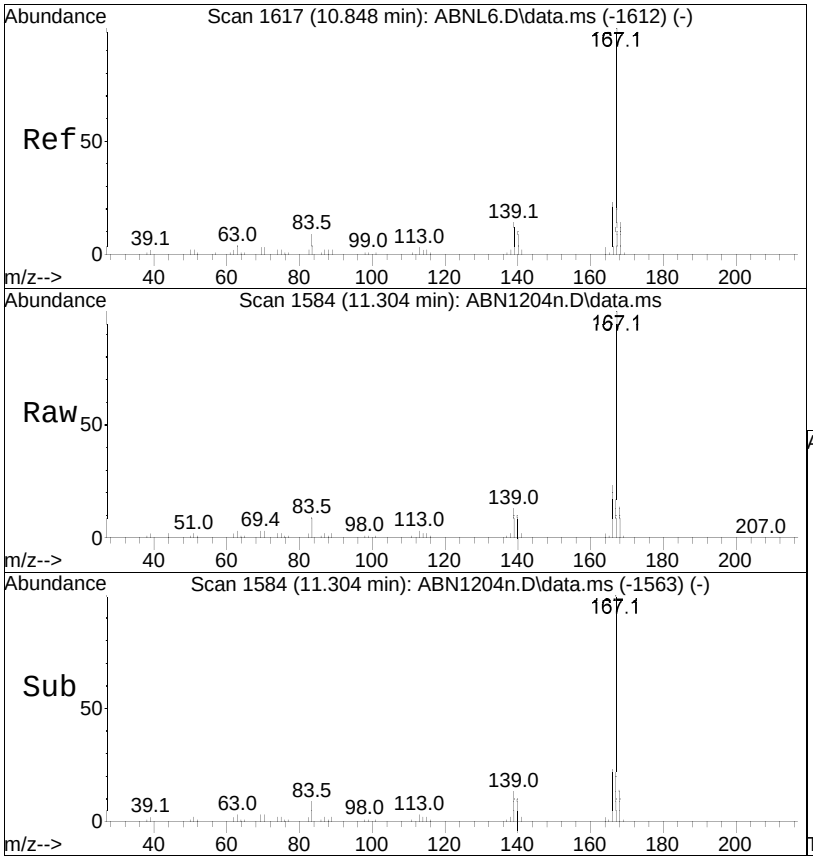


#89
Anthracene
Concen: 4.83 ug/ml
RT: 11.139 min Scan# 1556
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:178 Resp: 158247

Ion	Ratio	Lower	Upper
178	100		
179	15.1	12.0	18.0
176	19.3	14.6	22.0

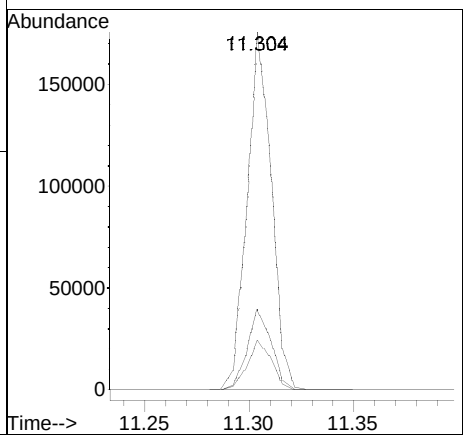


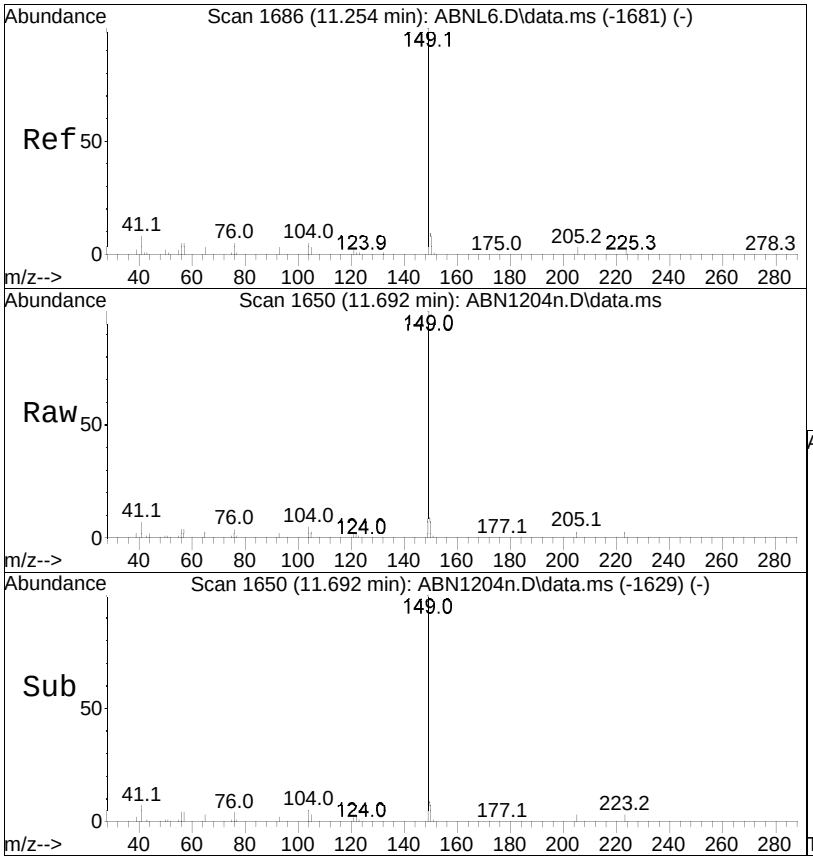


#90
Carbazole
Concen: 4.88 ug/ml
RT: 11.304 min Scan# 1584
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:167 Resp: 140102

Ion	Ratio	Lower	Upper
167	100		
168	13.9	10.6	15.8
166	22.6	17.4	26.0

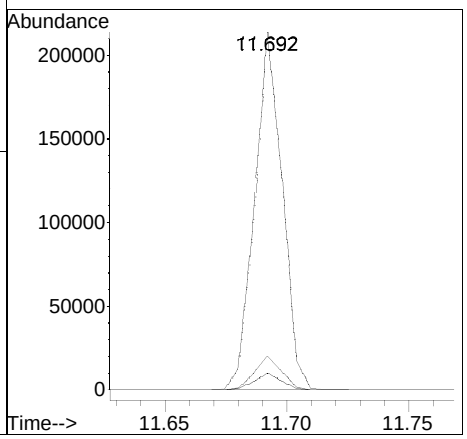


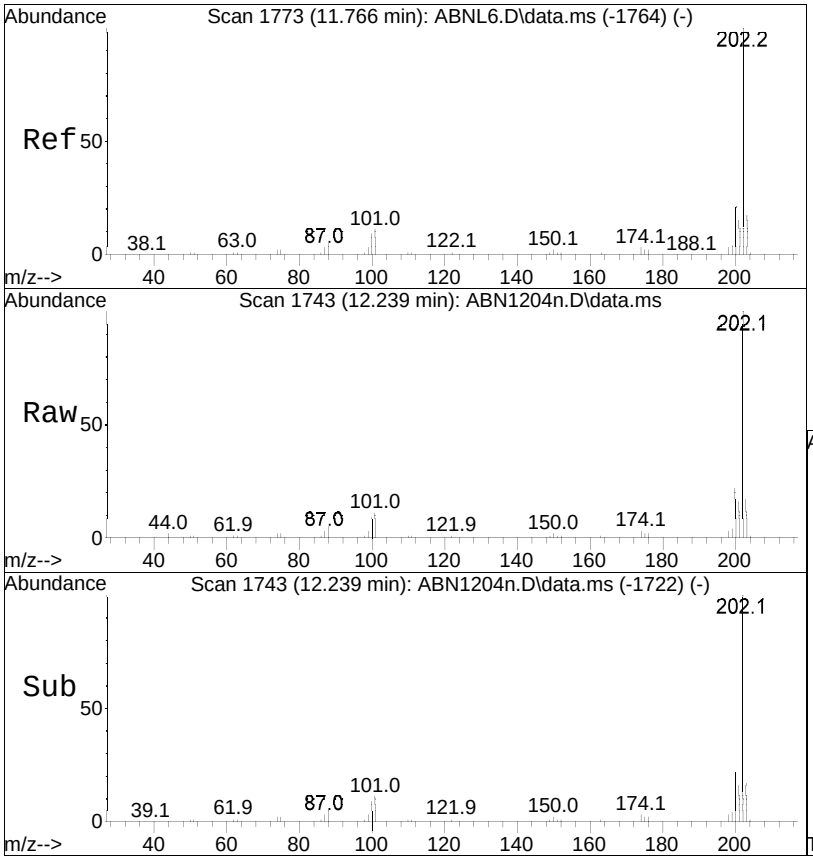


#91
Di-n-butylphthalate
Concen: 4.58 ug/ml
RT: 11.692 min Scan# 1650
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:149 Resp: 165530

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.0	10.6
104	4.7	4.5	6.7

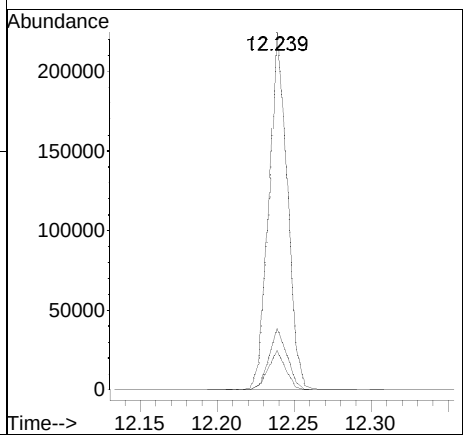


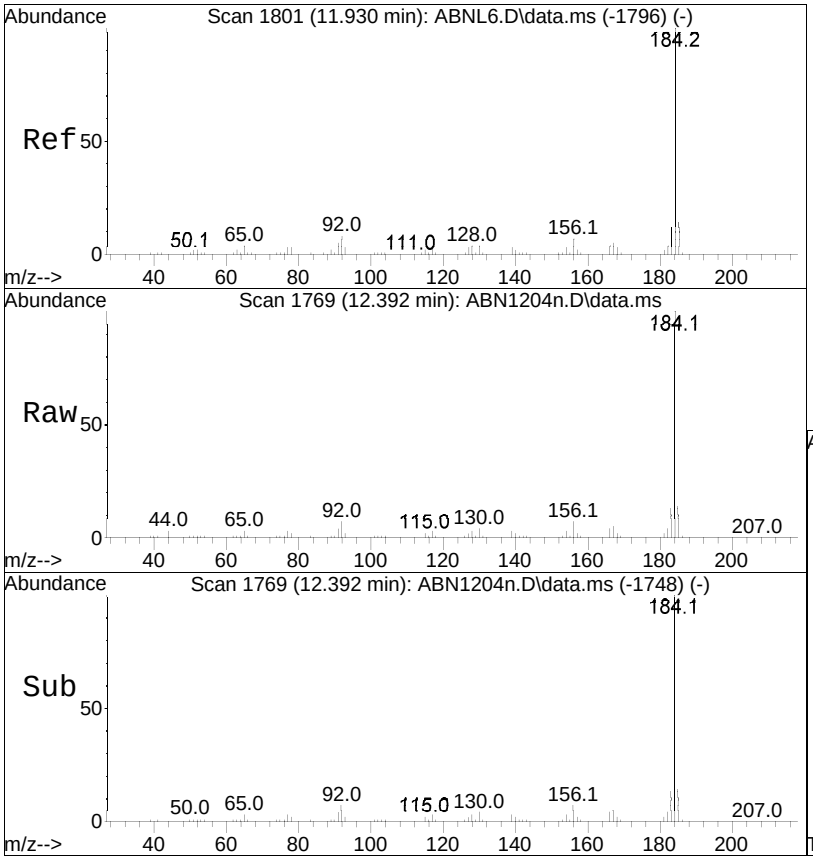


#92
Fluoranthene
Concen: 4.94 ug/ml
RT: 12.239 min Scan# 1743
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:202 Resp: 184346

Ion	Ratio	Lower	Upper
202	100		
101	10.7	13.5	20.3#
203	17.1	13.6	20.4

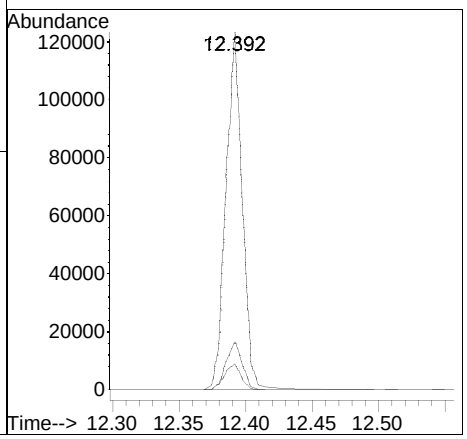


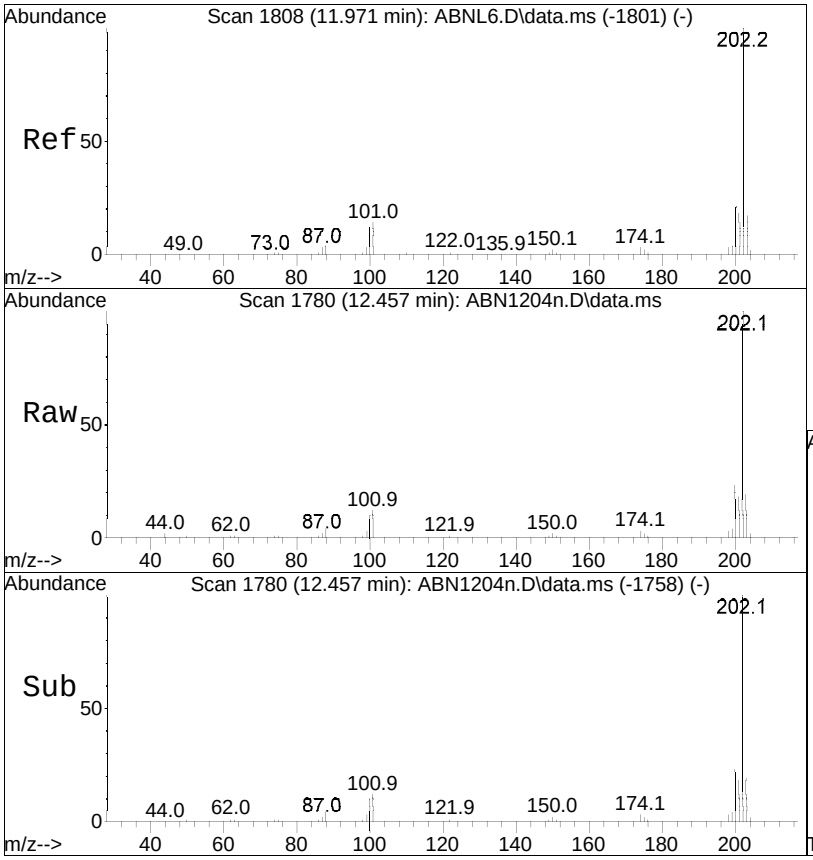


#93
Benzidine
Concen: 4.66 ug/ml
RT: 12.392 min Scan# 1769
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:184 Resp: 103427

Ion	Ratio	Lower	Upper
184	100		
92	7.4	9.1	13.7#
185	13.4	11.1	16.7

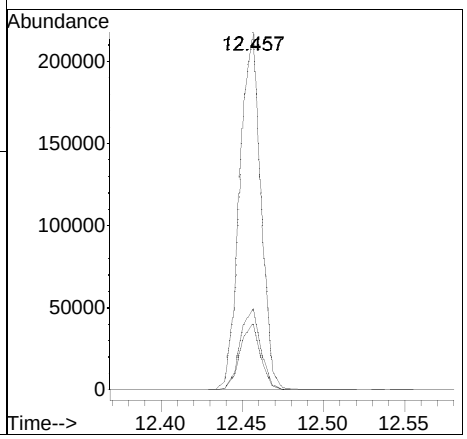


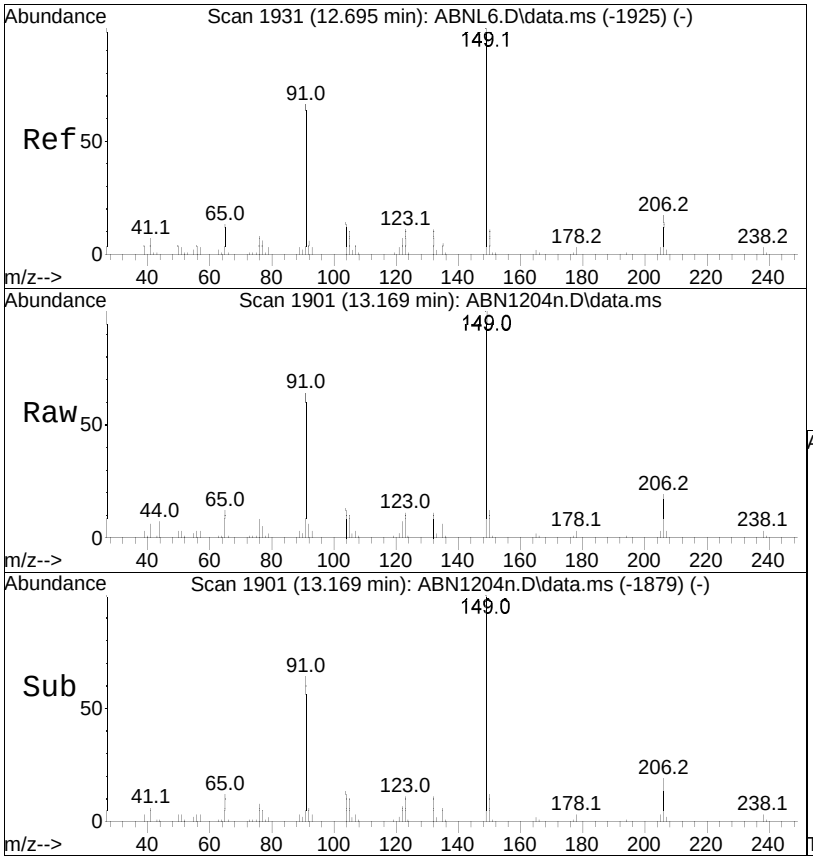


#94
Pyrene
Concen: 4.91 ug/ml
RT: 12.457 min Scan# 1780
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:202 Resp: 194798

Ion	Ratio	Lower	Upper
202	100		
200	22.2	16.7	25.1
203	18.0	14.2	21.4

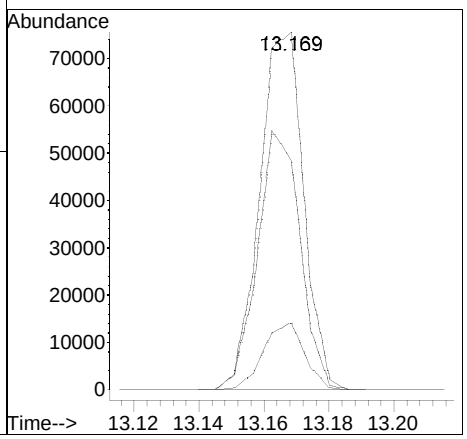


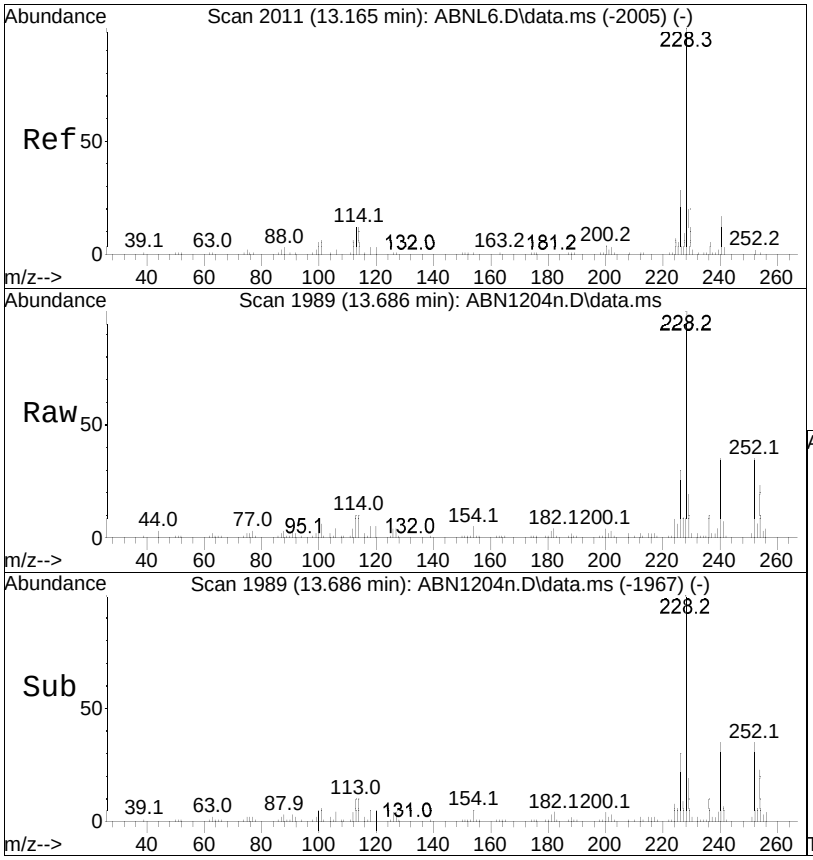


#96
Butyl benzyl phthalate
Concen: 4.53 ug/ml
RT: 13.169 min Scan# 1901
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:149 Resp: 70366

Ion	Ratio	Lower	Upper
149	100		
91	70.4	63.3	94.9
206	17.8	13.9	20.9

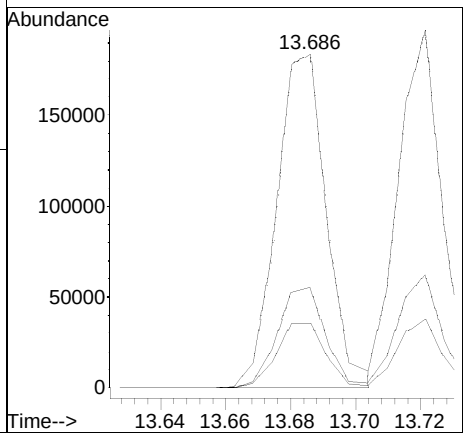


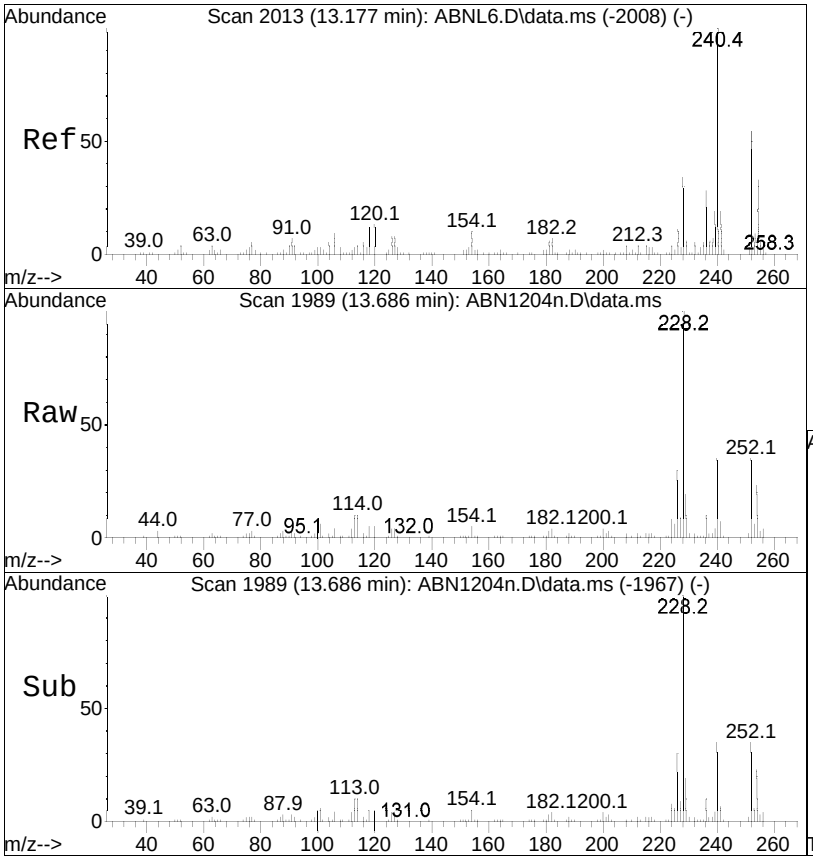


#104
Benzo(a)anthracene
Concen: 4.86 ug/ml
RT: 13.686 min Scan# 1989
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:228 Resp: 195451

Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.2	33.4
229	19.5	15.6	23.4

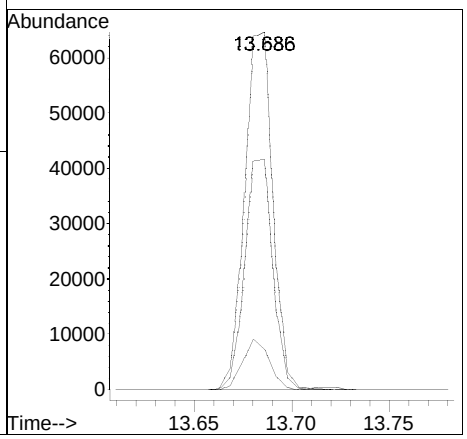


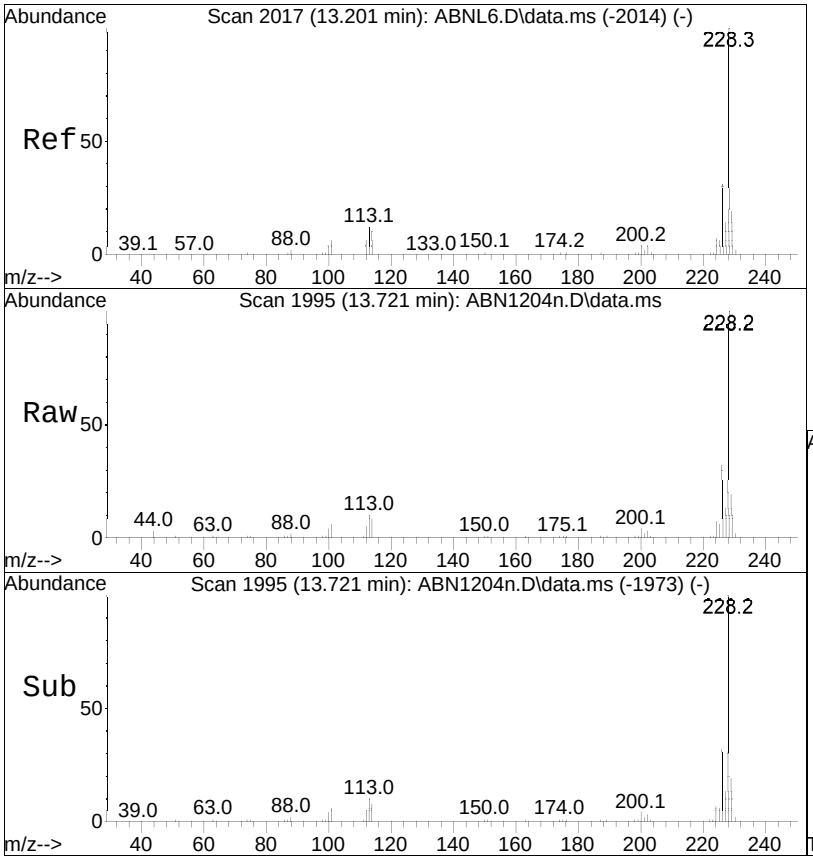


#105
3,3'-Dichlorobenzidine
Concen: 4.71 ug/ml
RT: 13.686 min Scan# 1989
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:252 Resp: 64505

Ion	Ratio	Lower	Upper
252	100		
126	13.6	14.5	21.7#
254	64.0	51.2	76.8

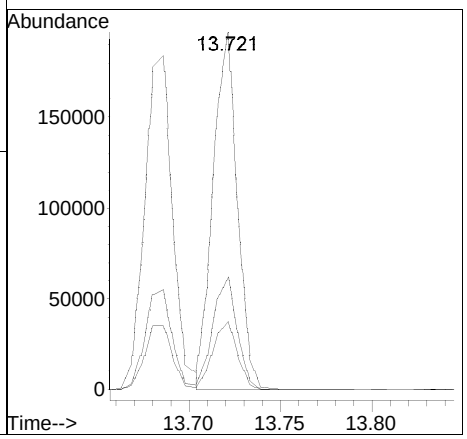


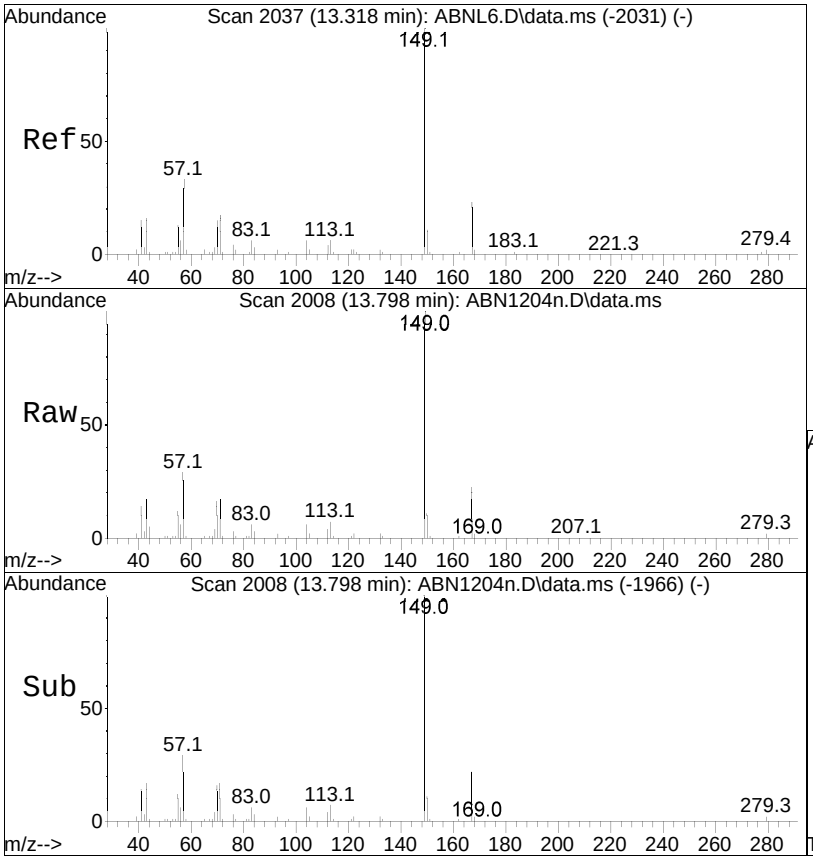


#106
Chrysene
Concen: 4.55 ug/ml
RT: 13.721 min Scan# 1995
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:228 Resp: 182443

Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.0	36.0
229	19.2	15.8	23.8

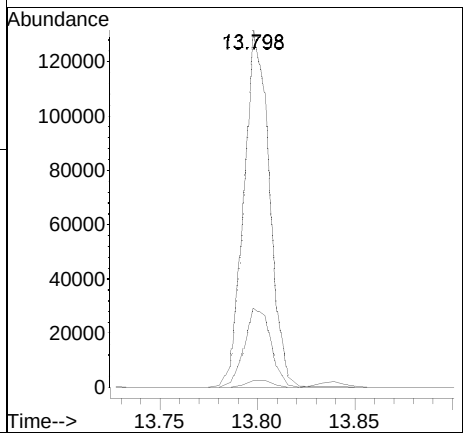


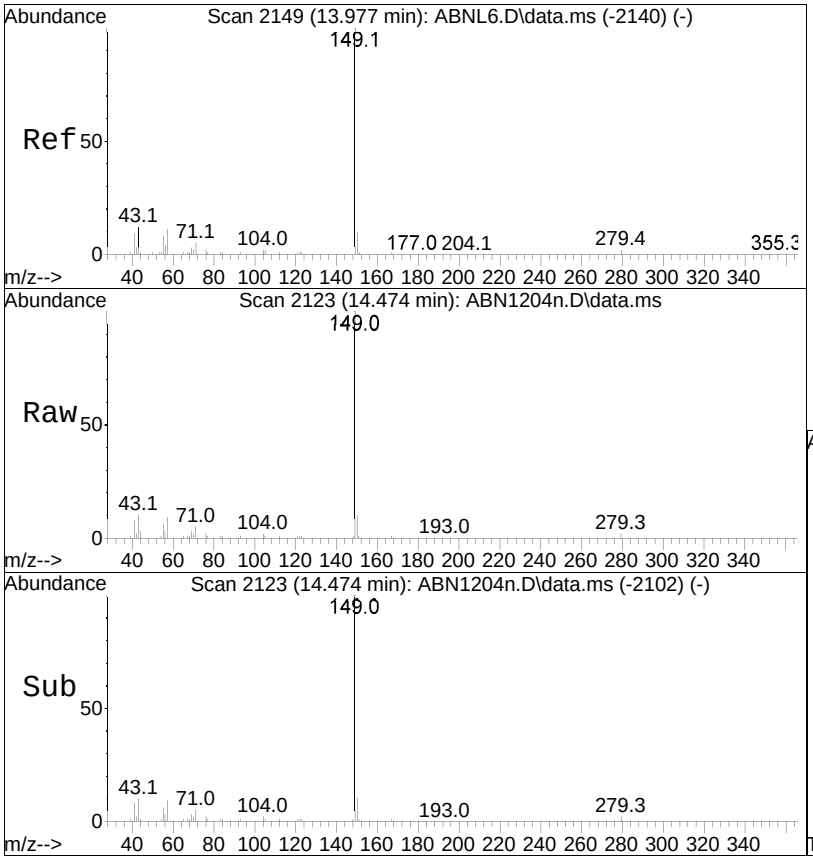


#107
Bis(2-ethylhexyl)phthalate
Concen: 4.65 ug/ml
RT: 13.798 min Scan# 2008
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:149 Resp: 118877

Ion	Ratio	Lower	Upper
149	100		
167	23.1	22.1	33.1
279	1.9	3.0	4.4#

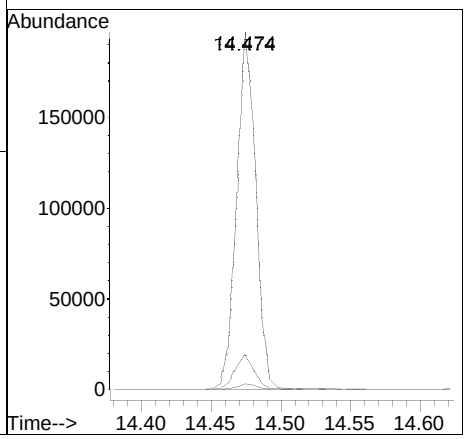


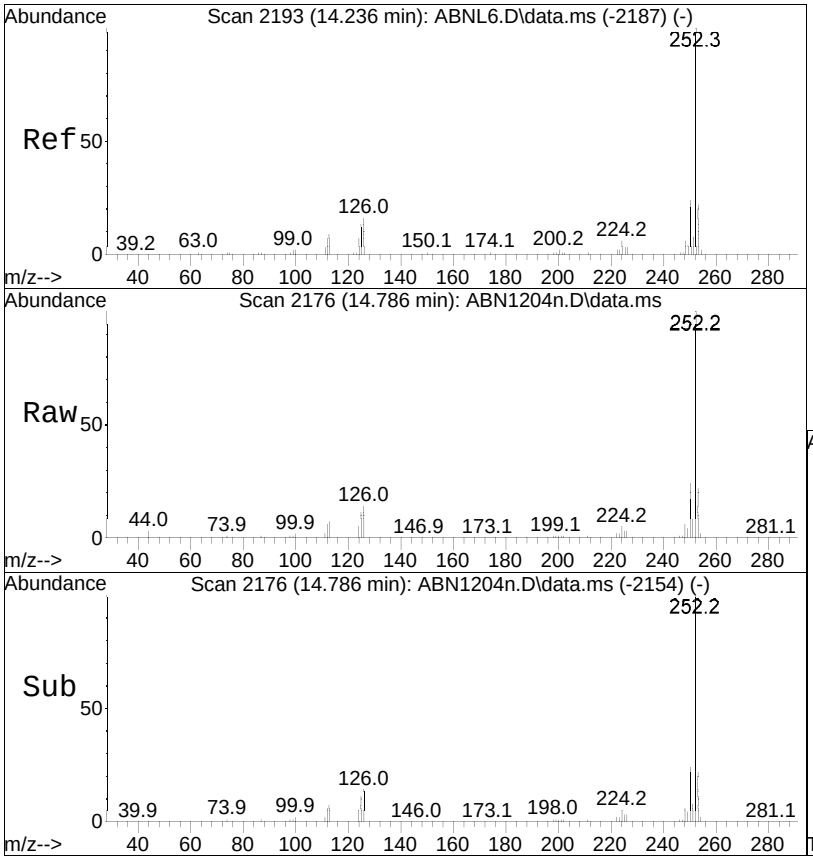


#108
Di-n-octylphthalate
Concen: 4.32 ug/ml
RT: 14.474 min Scan# 2123
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:149 Resp: 184274

Ion	Ratio	Lower	Upper
149	100		
43	9.9	18.8	28.2#
167	1.4	1.3	1.9

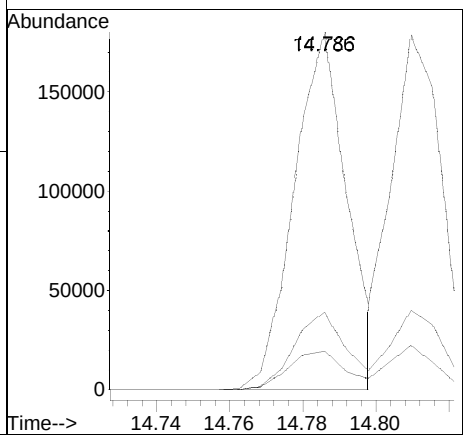


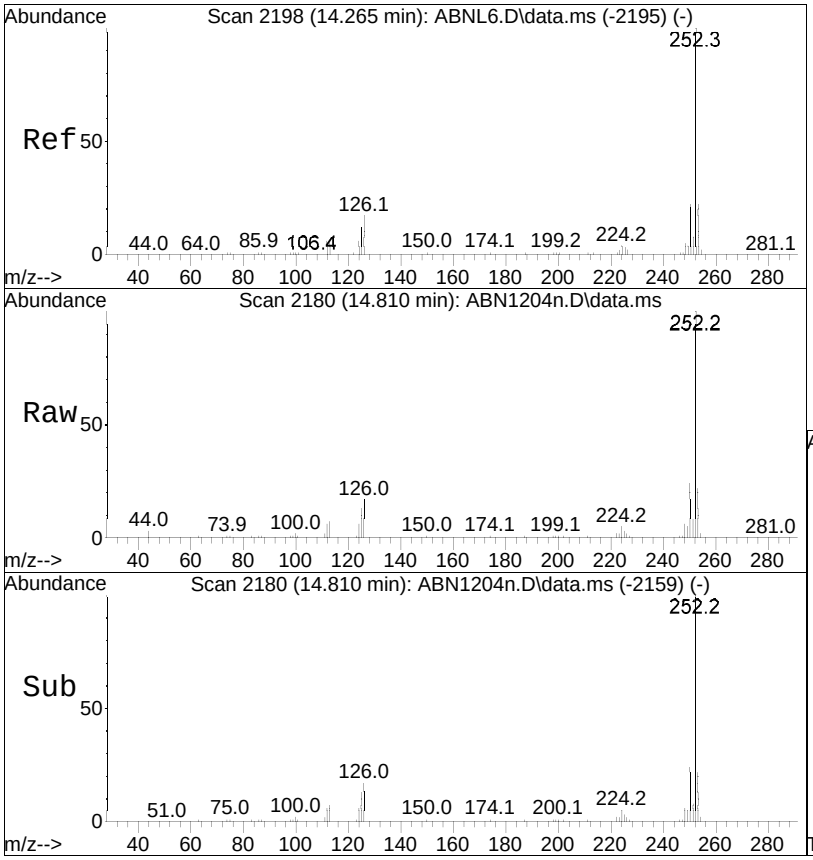


#109
Benzo(b)fluoranthene
Concen: 4.90 ug/ml
RT: 14.786 min Scan# 2176
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:252 Resp: 183676

Ion	Ratio	Lower	Upper
252	100		
125	12.0	13.3	19.9#
253	21.7	17.1	25.7

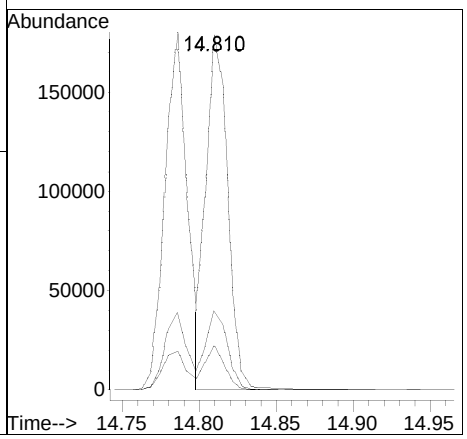


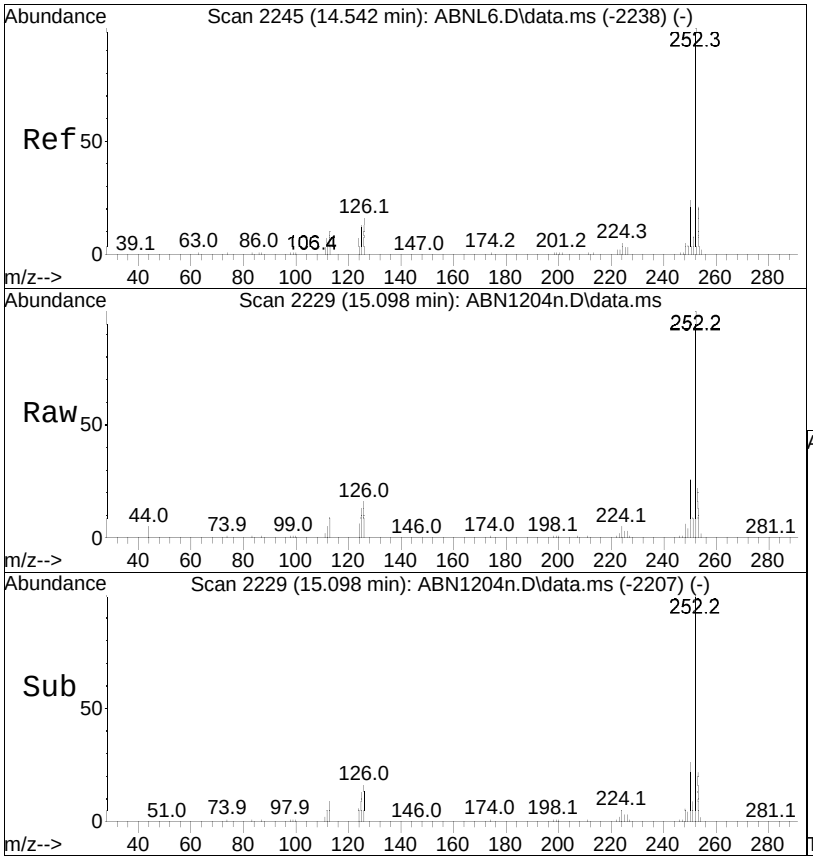


#110
Benzo(k)fluoranthene
Concen: 4.80 ug/ml
RT: 14.810 min Scan# 2180
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:252 Resp: 173855

Ion	Ratio	Lower	Upper
252	100		
125	11.4	13.0	19.6#
253	22.2	16.8	25.2

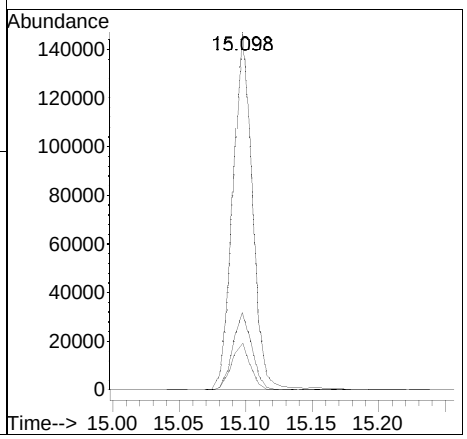


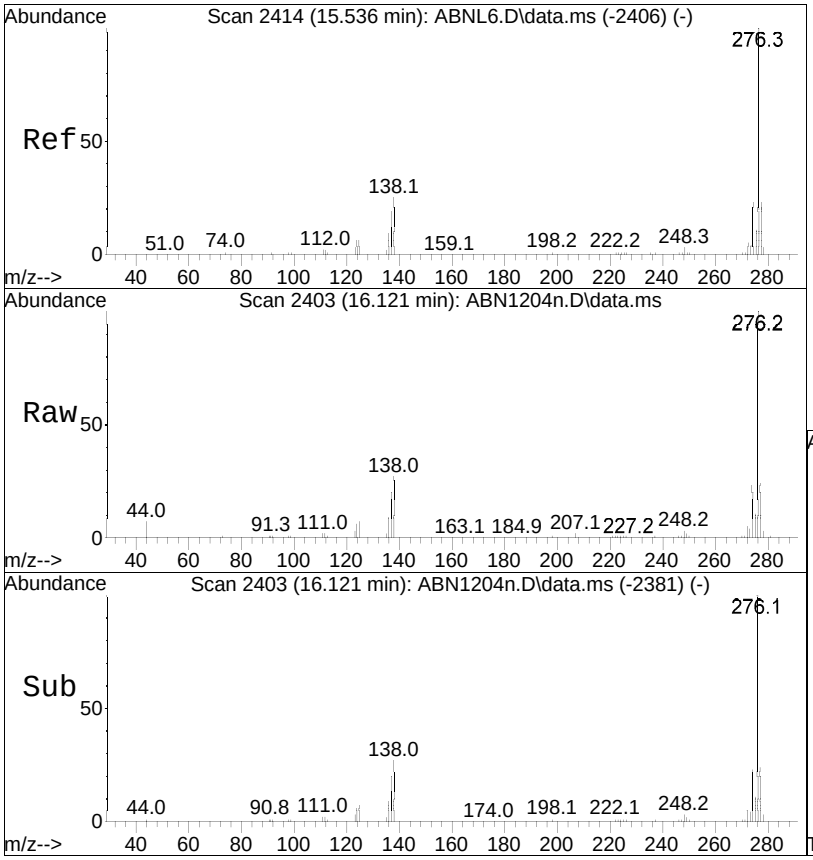


#111
Benzo(a)pyrene
Concen: 4.71 ug/ml
RT: 15.098 min Scan# 2229
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:252 Resp: 151404

Ion	Ratio	Lower	Upper
252	100		
125	12.8	14.2	21.2#
253	21.2	16.9	25.3

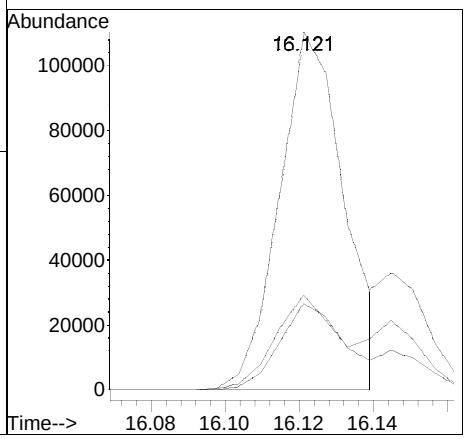


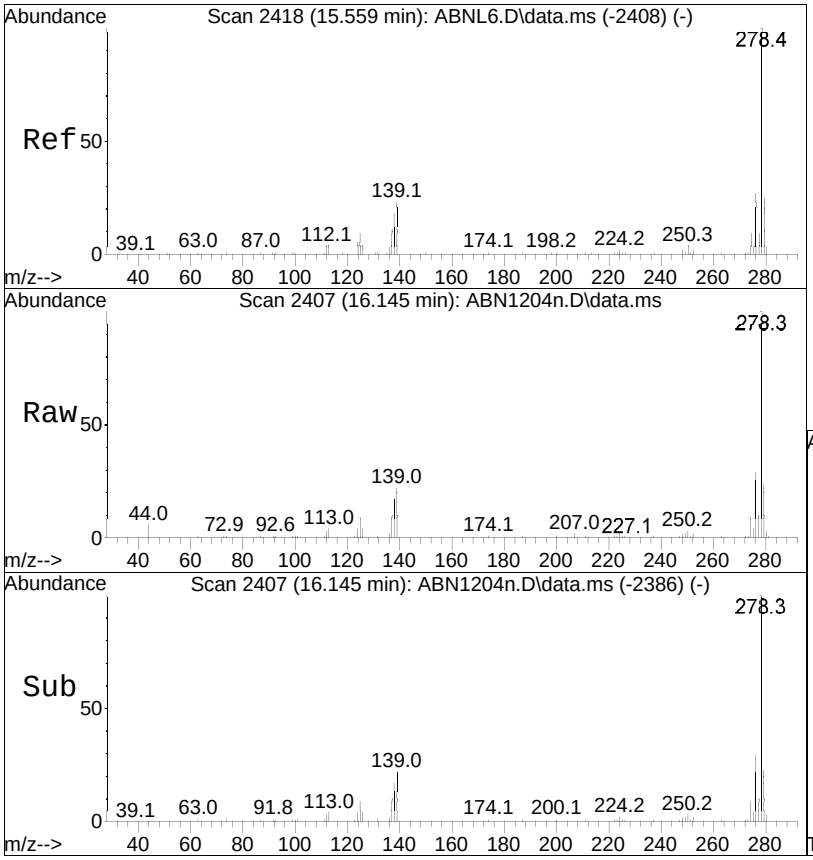


#113
Indeno(1,2,3-cd)pyrene
Concen: 5.11 ug/mL M6
RT: 16.121 min Scan# 2403
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:276 Resp: 134501

Ion	Ratio	Lower	Upper
276	100		
138	24.7	25.1	37.7#
277	32.3	18.6	28.0#

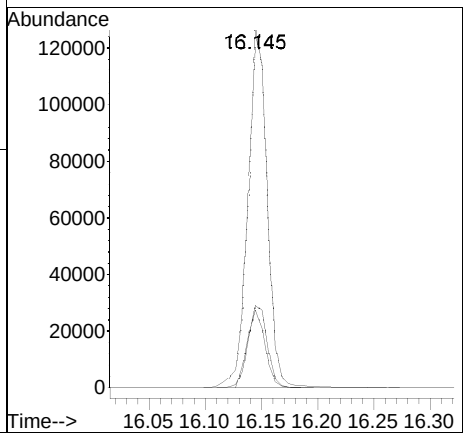


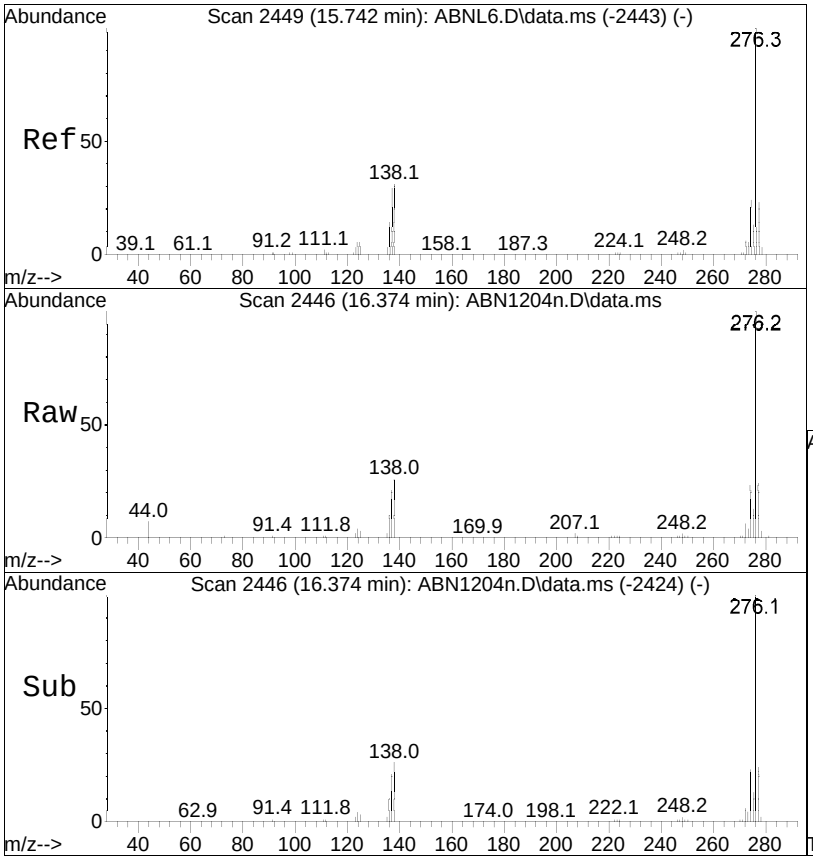


#114
Dibenzo(a,h)anthracene
Concen: 5.07 ug/ml
RT: 16.145 min Scan# 2407
Delta R.T. -0.000 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:278 Resp: 149421

Ion	Ratio	Lower	Upper
278	100		
139	20.5	20.8	31.2#
279	23.4	18.3	27.5

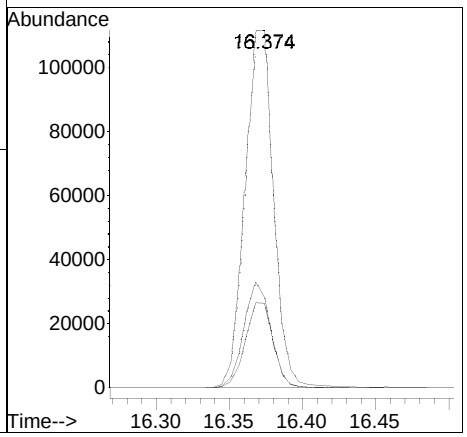




#115
Benzo(ghi)perylene
Concen: 5.06 ug/ml
RT: 16.374 min Scan# 2446
Delta R.T. 0.006 min
Lab File: ABN1204n.D
Acq: 4 Dec 2023 9:57 pm

Tgt Ion:276 Resp: 150356

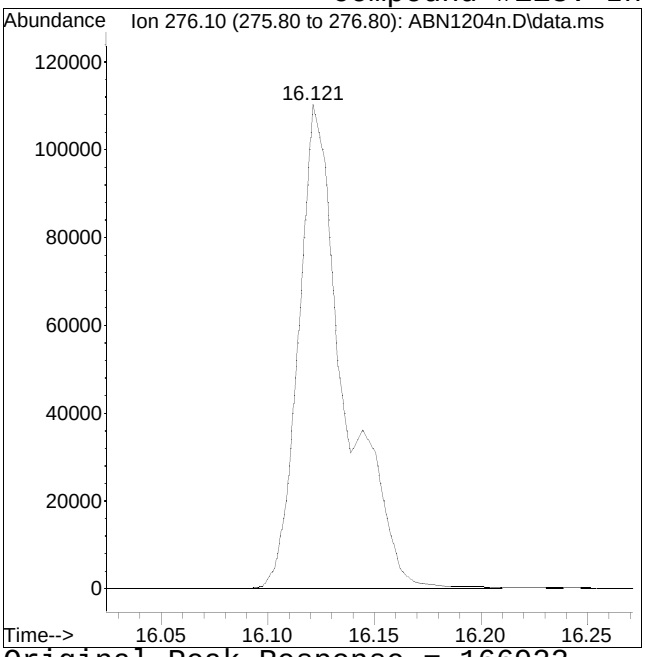
Ion	Ratio	Lower	Upper
276	100		
138	28.2	29.2	43.8#
277	23.5	18.8	28.2



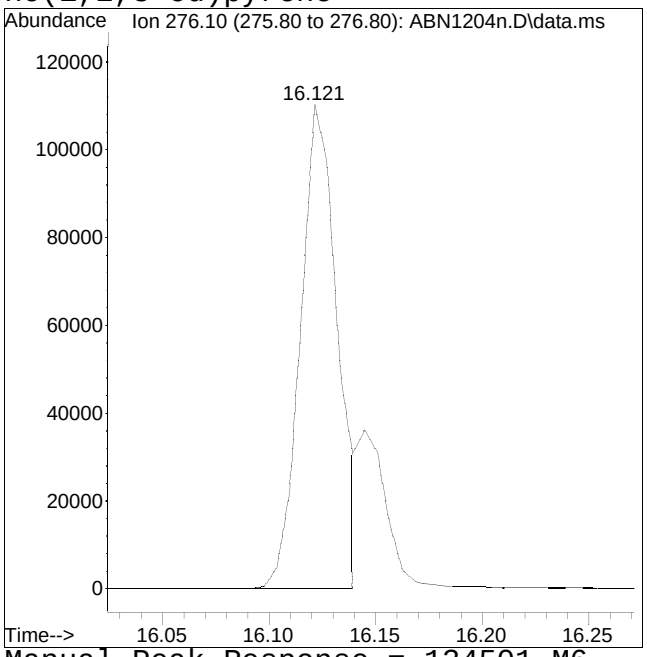
Manual Integration Report

Data Path : I:\8270\SV107\231204nlvi\ QMethod : FS231025SV107.m
Data File : ABN1204n.D Operator : SV107:sz
Date Inj'd : 12/4/2023 9:57 pm Instrument : SV107
Sample : wg1859679-3,32,,ABN LVI CCQuant Date : 12/4/2023 10:25 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 166922



Manual Peak Response = 134501 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\231204nlvi\
Data File : AP91204n.D
Acq On : 4 Dec 2023 10:24 pm
Operator : SV107:sz
Sample : wg1859679-4,32,,AP9 LVI CCV Lot # 10299
Misc : wg1859679,,ical20485
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 04 22:53:40 2023
Quant Method : I:\8270\SV107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 22:53:22 2023
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
28	T	Benzaldehyde	0.929	0.951	-2.4	100	0.00
29	T	Acetophenone	1.694	1.656	2.2	100	0.00
30	T	m-Toluidine	1.560	1.584	-1.5	101	0.00
31	T	2-Chloroaniline	1.486	1.480	0.4	100	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	105	0.00
55	T	a-Terpineol	0.334	0.280	16.2	86	0.00
56	T	3-Chloroaniline	0.157	0.136	13.4	89	0.00
57	T	2,6-Dichlorophenol	0.265	0.274	-3.4	106	0.00
58	T	1-chloro-2-nitrobenzene	0.143	0.130	9.1	97	0.00
59	T	Caprolactam	0.193	0.138	28.5#	80	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.331	0.363	-9.7	111	0.00
61	T	Biphenyl	0.813	0.831	-2.2	103	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	101	0.00
83	T	Dichloran	0.158	0.144	8.9	105	0.00
84	T	Pentachloronitrobenzene	0.161	0.158	1.9	105	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	111	0.00
98	T	Diphenamid	0.448	0.403	10.0	98	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231204nlvi\
Data File : AP91204n.D
Acq On : 4 Dec 2023 10:24 pm
Operator : SV107:sz
Sample : wg1859679-4,32,,AP9 LVI CCV Lot # 10299
Misc : wg1859679,,ical20485
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 04 22:53:40 2023
Quant Method : I:\8270\SV107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 22:53:22 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.463	152	28381	4.000	ug/ml	0.00
54) IS2_Naphthalene-d8	7.881	136	108091	4.000	ug/ml	0.00
82) IS2_Acenaphthene-d10	9.633	164	61634	4.000	ug/ml	0.00
97) IS2_Phenanthrene-d10	11.069	188	135758	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.892	105	33734	5.117	ug/ml	97
29) Acetophenone	6.957	105	58747	4.889	ug/ml#	81
30) m-Toluidine	7.051	106	56178	5.076	ug/ml	95
31) 2-Chloroaniline	7.457	127	52497	4.980	ug/ml#	93
55) a-Terpineol	7.951	59	37790	4.190	ug/ml	86
56) 3-Chloroaniline	7.963	65	18376	4.333	ug/ml	92
57) 2,6-Dichlorophenol	7.992	162	36994	5.163	ug/ml#	87
58) 1-chloro-2-nitrobenzene	8.257	111	17586	4.566	ug/ml#	1
59) Caprolactam	8.292	55	18663	3.574	ug/ml#	80
60) 1,2,4,5-Tetrachloroben...	8.786	216	48984	5.476	ug/ml	98
61) Biphenyl	9.086	154	112319	5.110	ug/ml	100
83) Dichloran	10.763	206	11057	4.551	ug/ml#	63
84) Pentachloronitrobenzene	10.916	237	12205	4.912	ug/ml#	81
98) Diphenamid	11.969	167	68467	4.505	ug/ml	86

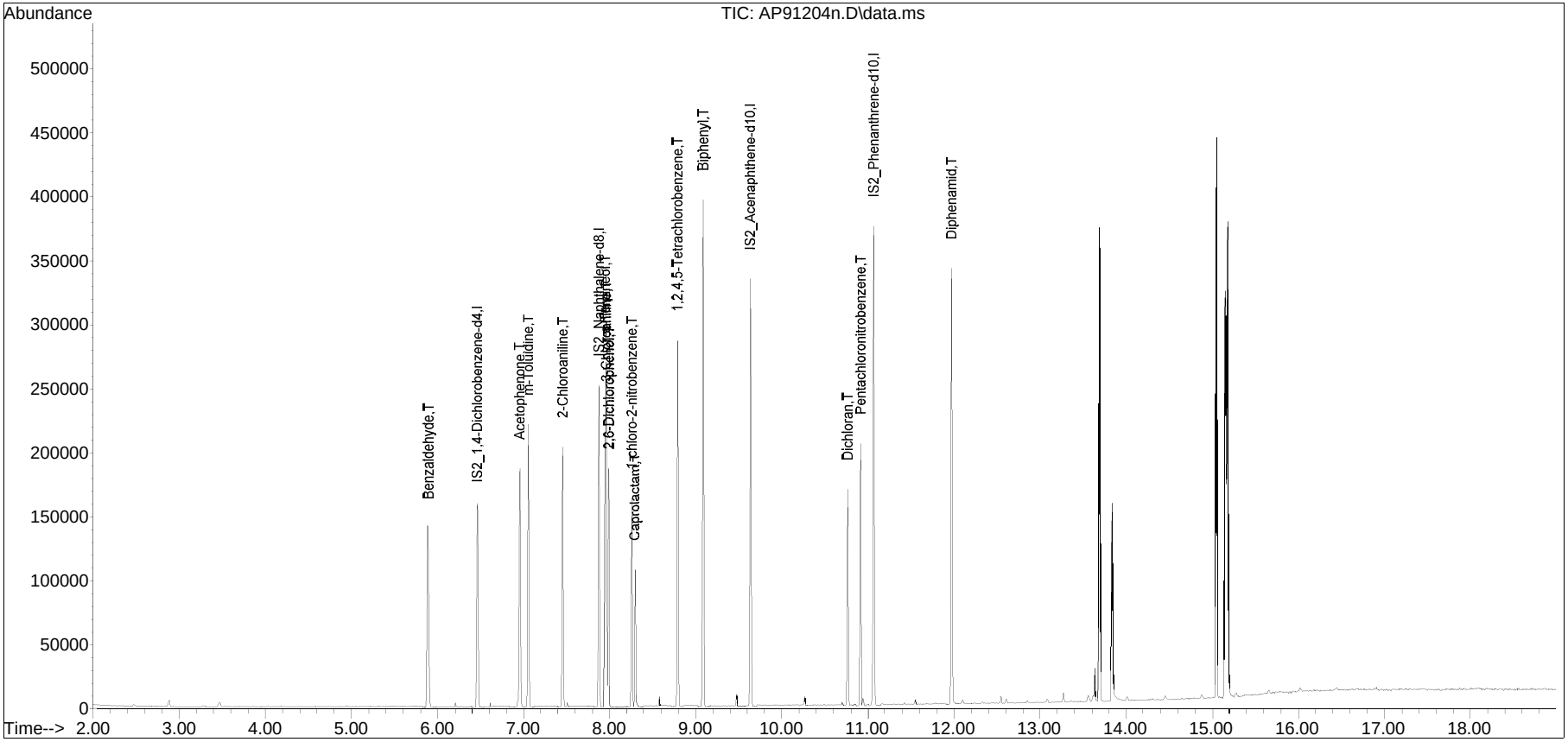
(#) = qualifier out of range (m) = manual integration (+) = signals summed

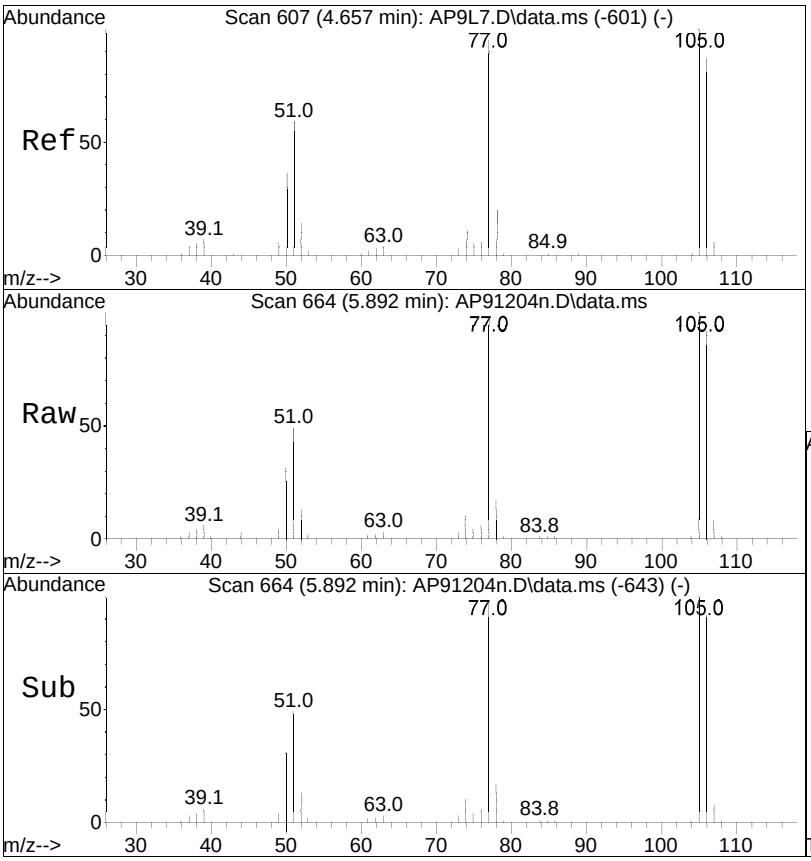
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231204nlvi\
Data File : AP91204n.D
Acq On : 4 Dec 2023 10:24 pm
Operator : SV107:sz
Sample : wg1859679-4,32,,AP9 LVI CCV Lot # 10299
Misc : wg1859679,,ical20485
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 04 22:53:40 2023
Quant Method : I:\8270\SV107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 22:53:22 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

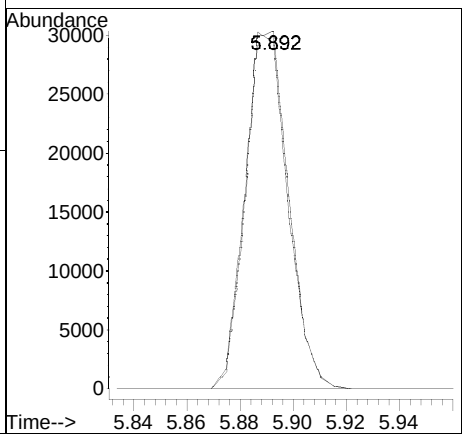


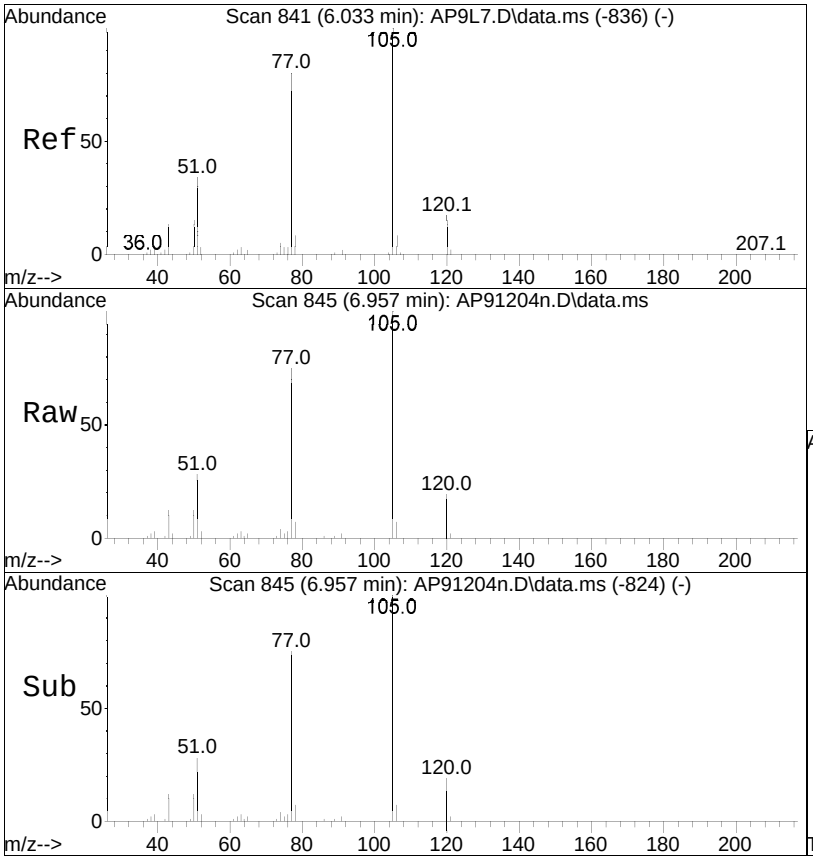


#28
Benzaldehyde
Concen: 5.12 ug/ml
RT: 5.892 min Scan# 664
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion:105 Resp: 33734

Ion	Ratio	Lower	Upper
105	100		
77	99.4	82.2	123.4

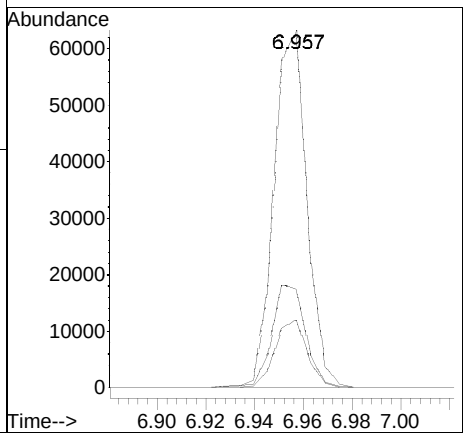


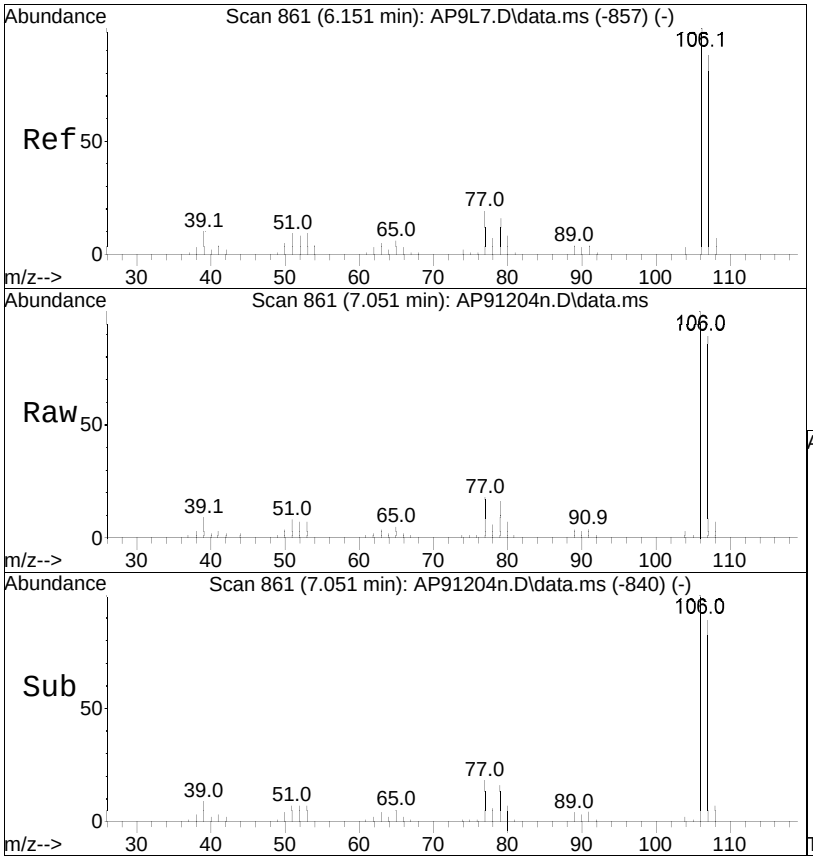


#29
Acetophenone
Concen: 4.89 ug/ml
RT: 6.957 min Scan# 845
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion:105 Resp: 58747

Ion	Ratio	Lower	Upper
105	100		
120	18.7	20.5	30.7#
51	29.6	34.9	52.3#

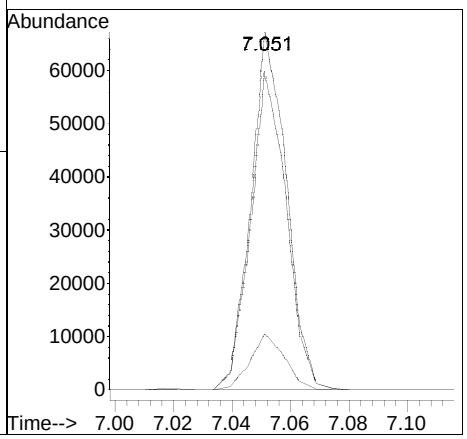


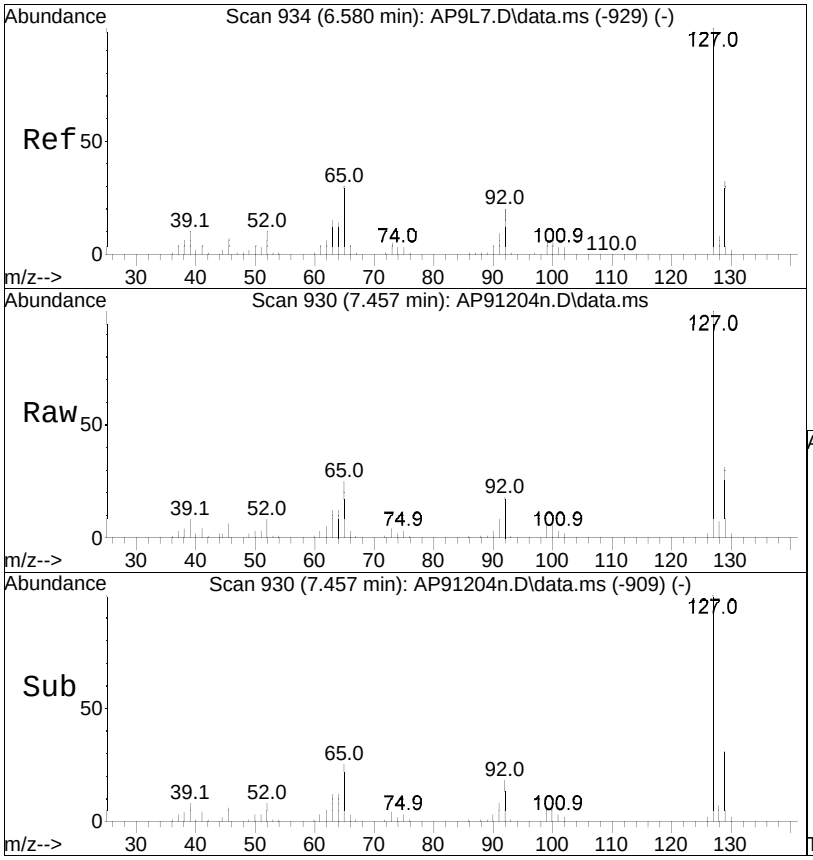


#30
m-Toluidine
Concen: 5.08 ug/ml
RT: 7.051 min Scan# 861
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion:106 Resp: 56178

Ion	Ratio	Lower	Upper
106	100		
107	88.9	75.7	113.5
79	15.3	11.8	17.8

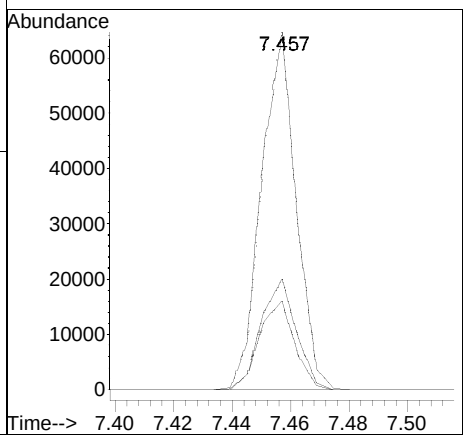


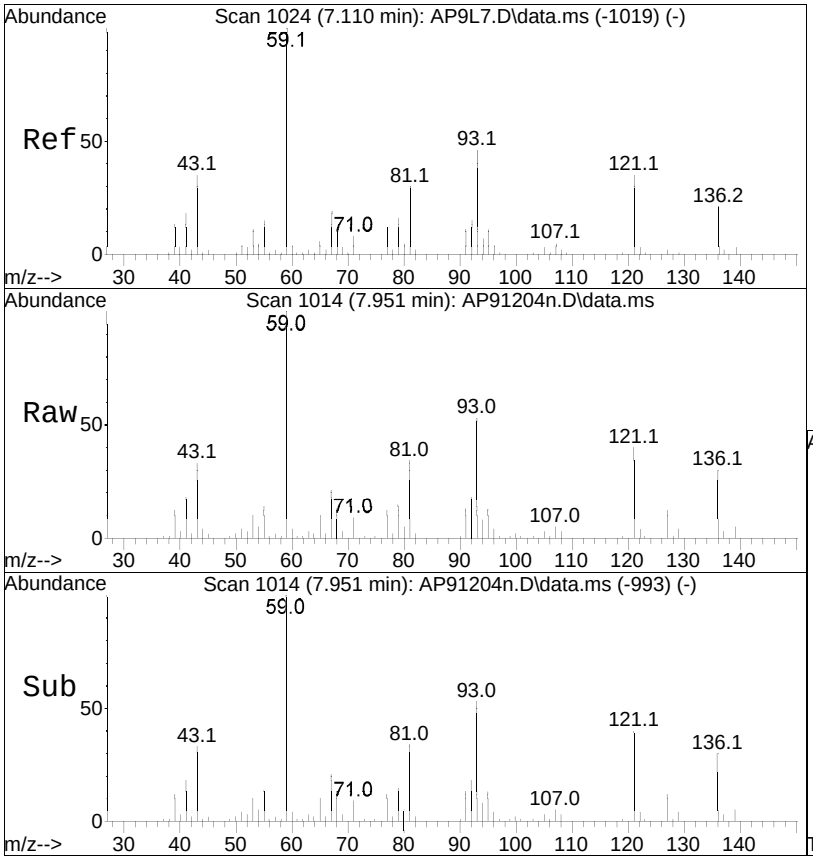


#31
2-Chloroaniline
Concen: 4.98 ug/ml
RT: 7.457 min Scan# 930
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion:127 Resp: 52497

Ion	Ratio	Lower	Upper
127	100		
129	31.7	25.9	38.9
65	25.6	26.3	39.5#

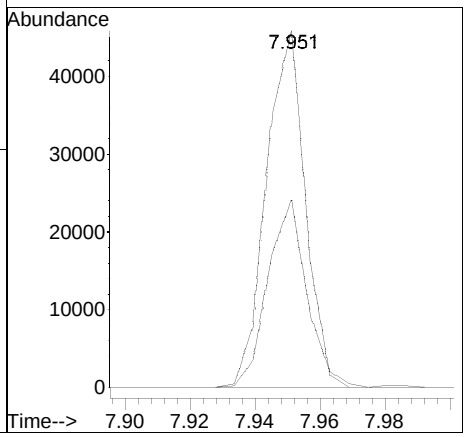


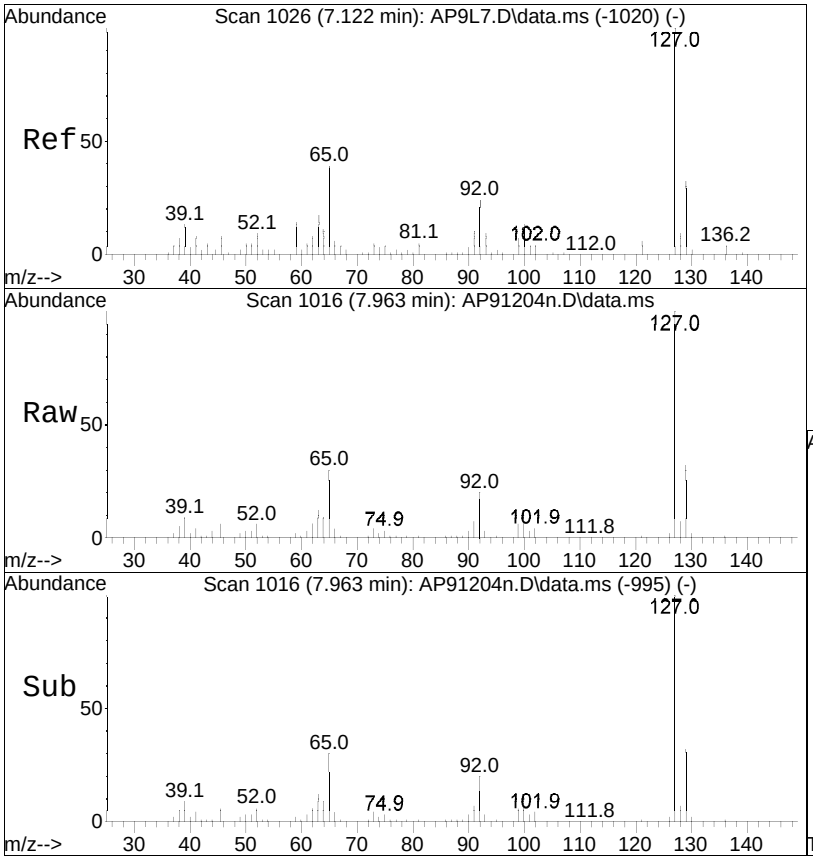


#55
a-Terpineol
Concen: 4.19 ug/ml
RT: 7.951 min Scan# 1014
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion: 59 Resp: 37790

Ion	Ratio	Lower	Upper
59	100		
93	53.3	35.6	53.4

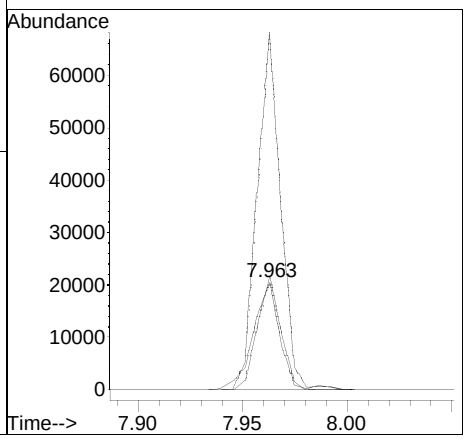


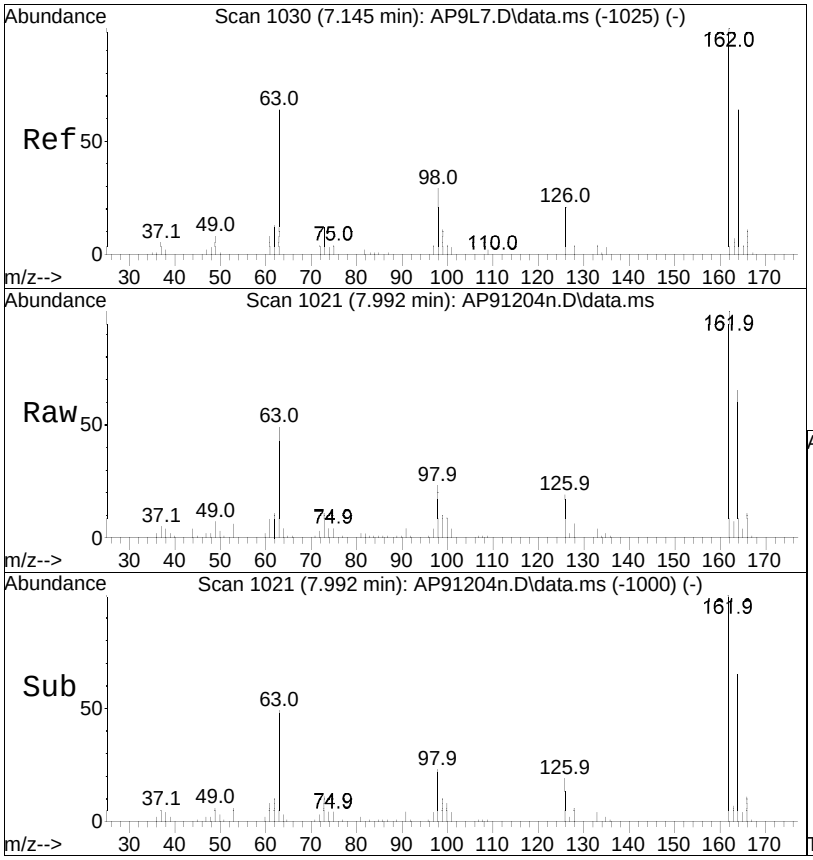


#56
3-Chloroaniline
Concen: 4.33 ug/ml
RT: 7.963 min Scan# 1016
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion: 65 Resp: 18376

Ion	Ratio	Lower	Upper
65	100		
127	286.9	243.2	364.8
129	91.5	78.8	118.2

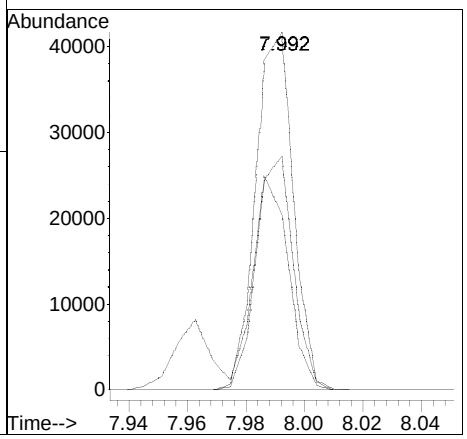


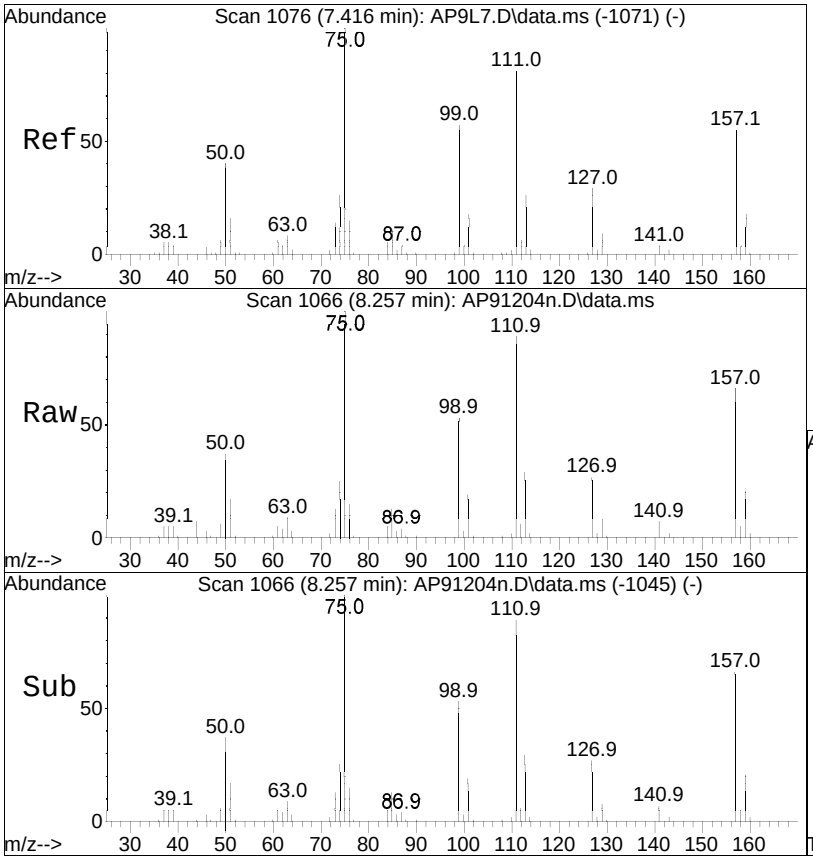


#57
2,6-Dichlorophenol
Concen: 5.16 ug/ml
RT: 7.992 min Scan# 1021
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion:162 Resp: 36994

Ion	Ratio	Lower	Upper
162	100		
164	64.4	51.1	76.7
63	56.1	60.8	91.2#

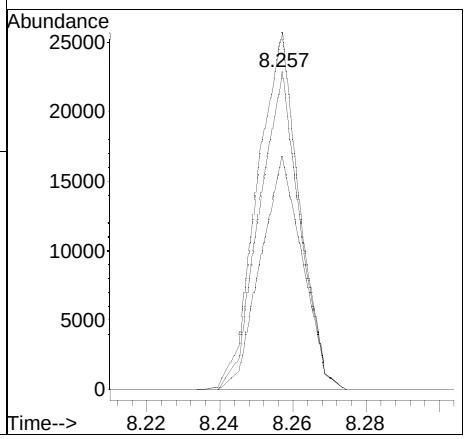


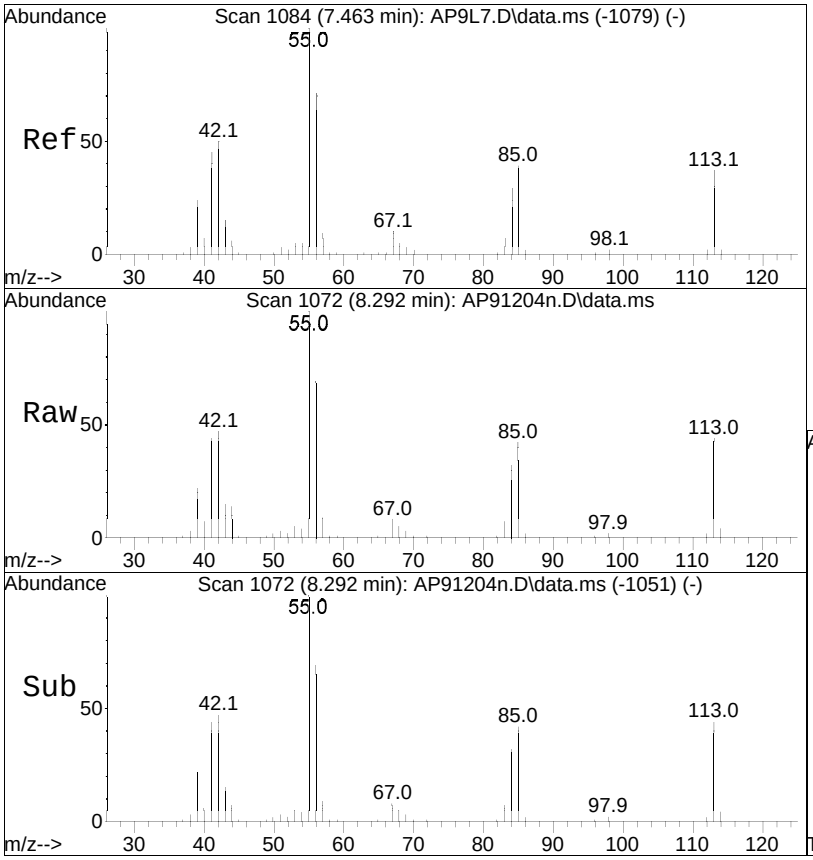


#58
1-chloro-2-nitrobenzene
Concen: 4.57 ug/ml
RT: 8.257 min Scan# 1066
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion:111 Resp: 17586

Ion	Ratio	Lower	Upper
111	100		
157	75.5	0.0	0.0#
75	116.1	28.2	42.2#

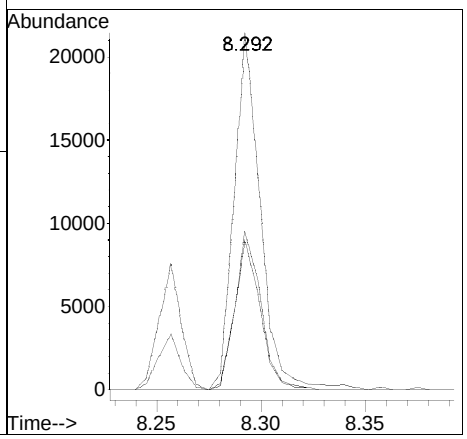


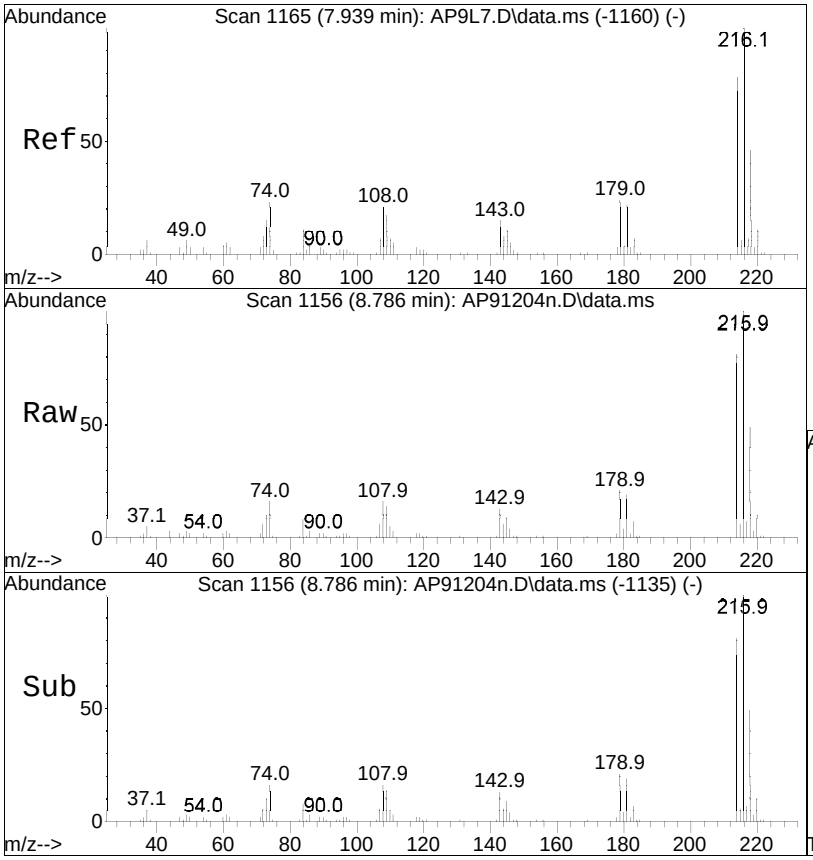


#59
Caprolactam
Concen: 3.57 ug/ml
RT: 8.292 min Scan# 1072
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion: 55 Resp: 18663

Ion	Ratio	Lower	Upper
55	100		
85	41.3	19.8	29.6#
113	44.0	29.6	44.4

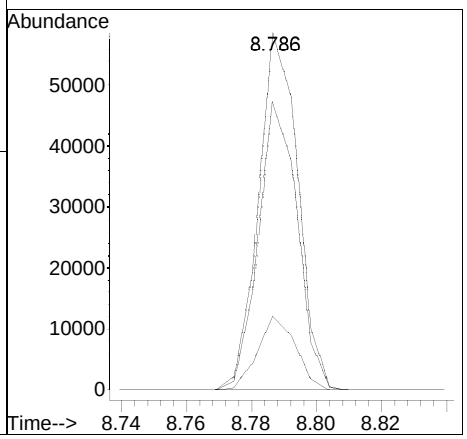


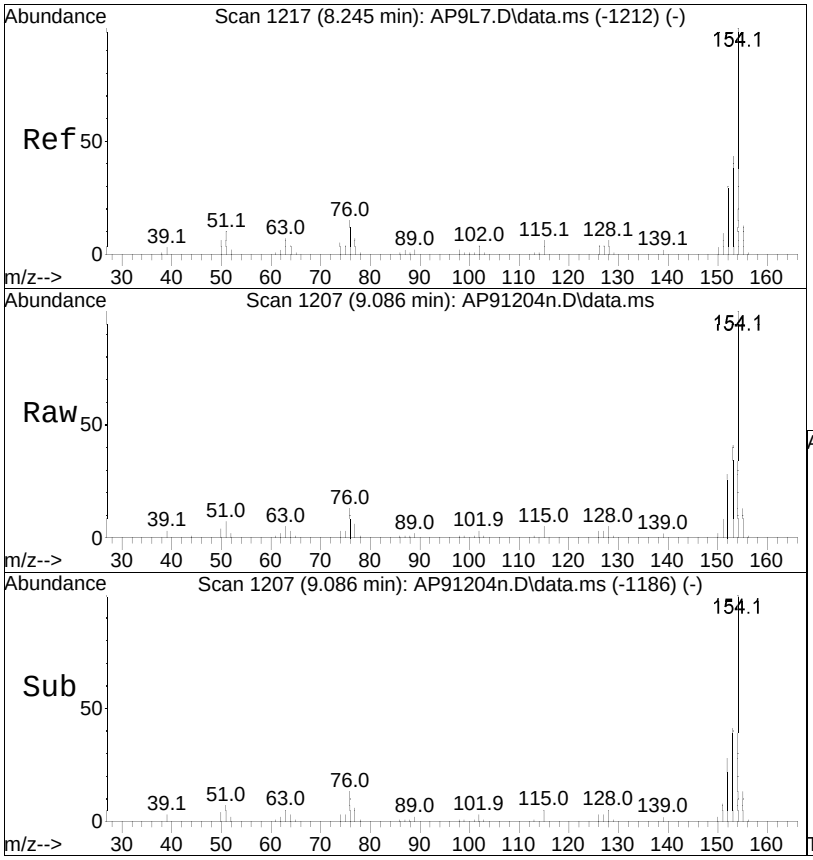


#60
1,2,4,5-Tetrachlorobenzene
Concen: 5.48 ug/ml
RT: 8.786 min Scan# 1156
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion:216 Resp: 48984

Ion	Ratio	Lower	Upper
216	100		
214	79.8	63.7	95.5
179	20.0	19.0	28.6

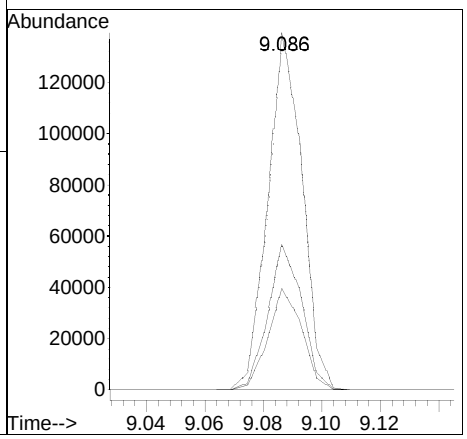


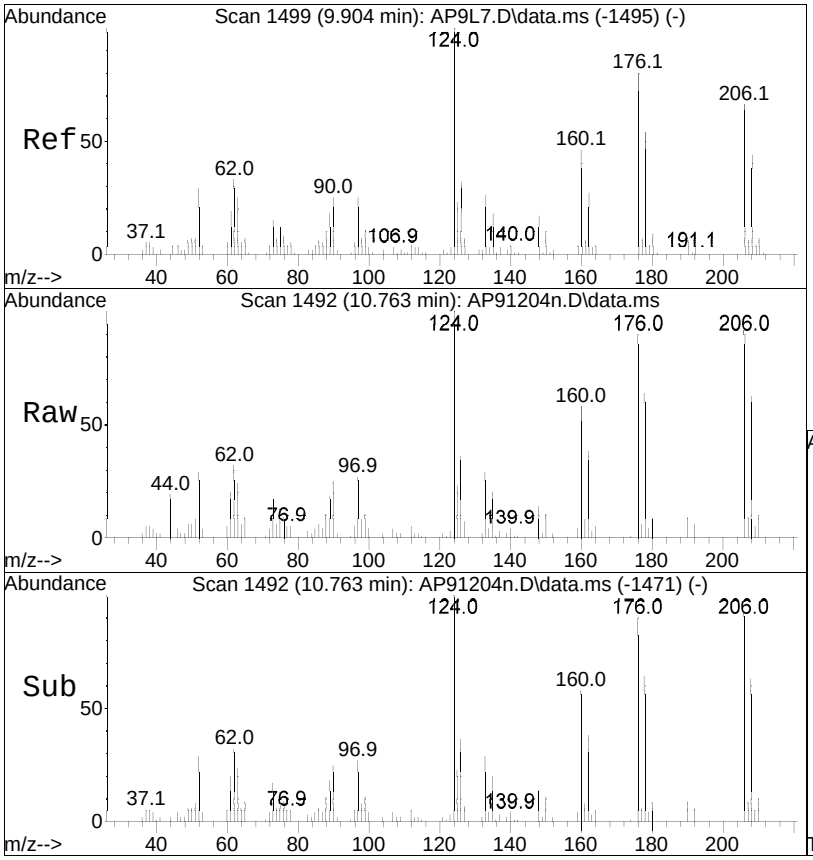


#61
Biphenyl
Concen: 5.11 ug/ml
RT: 9.086 min Scan# 1207
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion:154 Resp: 112319

Ion	Ratio	Lower	Upper
154	100		
153	40.6	32.3	48.5
152	28.2	22.5	33.7

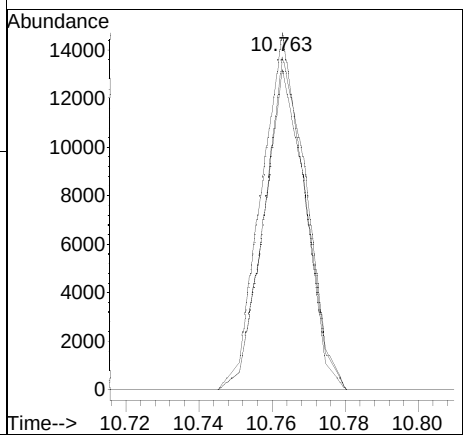


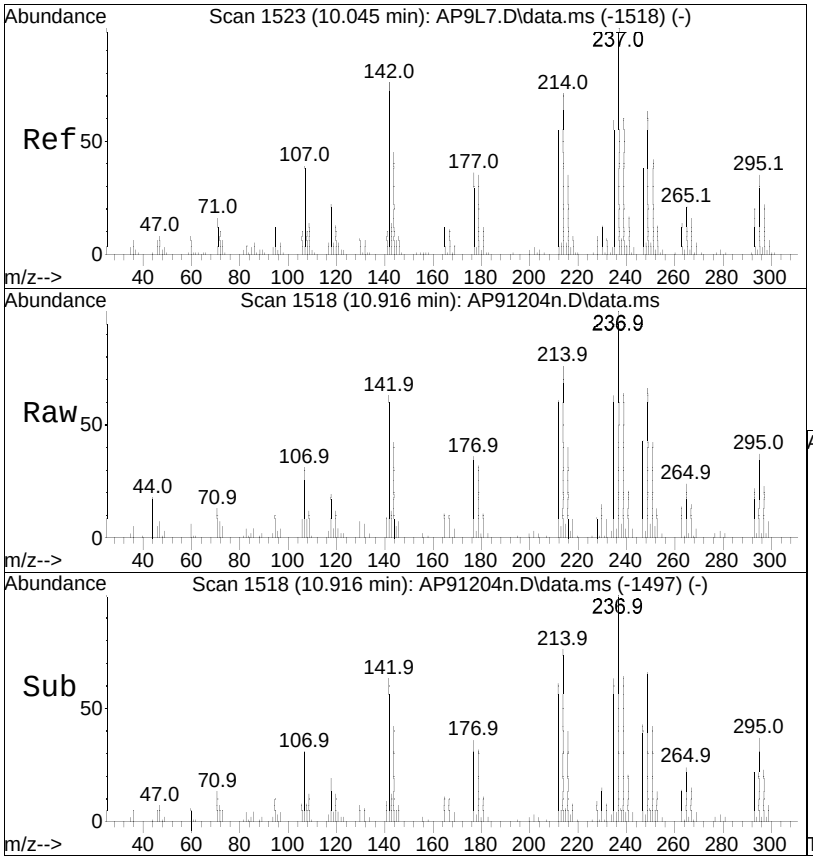


#83
Dichloran
Concen: 4.55 ug/ml
RT: 10.763 min Scan# 1492
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion:206 Resp: 11057

Ion	Ratio	Lower	Upper
206	100		
176	95.4	104.6	157.0#
124	106.4	130.5	195.7#

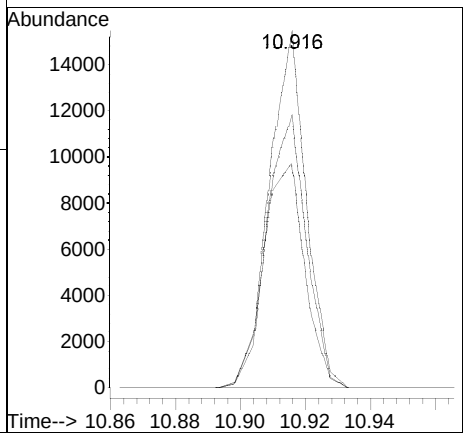


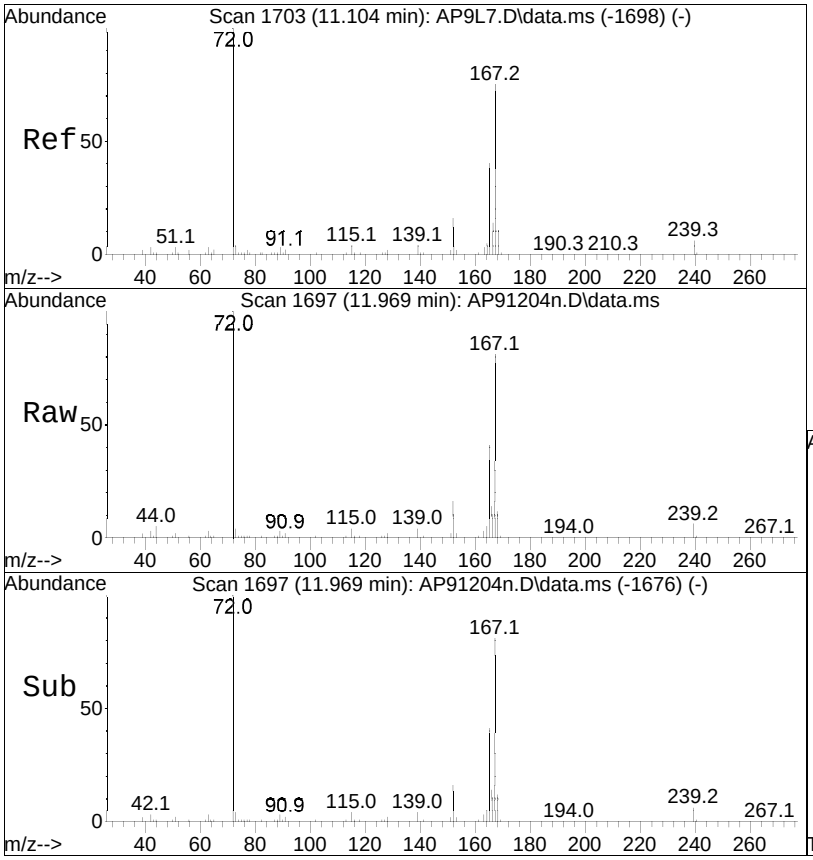


#84
Pentachloronitrobenzene
Concen: 4.91 ug/ml
RT: 10.916 min Scan# 1518
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion:237 Resp: 12205

Ion	Ratio	Lower	Upper
237	100		
142	70.4	77.0	115.4#
214	81.3	58.2	87.4

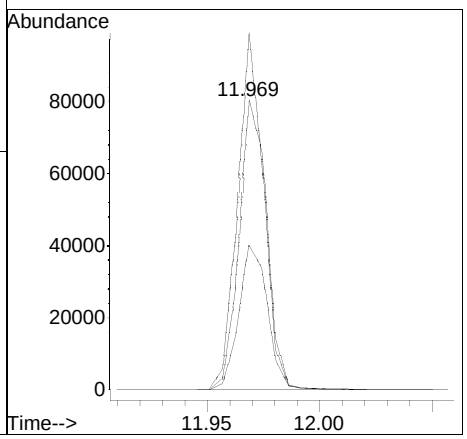




#98
Diphenamid
Concen: 4.51 ug/ml
RT: 11.969 min Scan# 1697
Delta R.T. 0.000 min
Lab File: AP91204n.D
Acq: 4 Dec 2023 10:24 pm

Tgt Ion:167 Resp: 68467

Ion	Ratio	Lower	Upper
167	100		
72	114.9	109.7	164.5
165	53.0	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV107\231204nlvi\	QMethod	: FS231025SV107.m
Data File	: AP91204n.D	Operator	: SV107:sz
Date Inj'd	: 12/4/2023 10:24 pm	Instrument	: SV107
Sample	: wg1859679-4,32,,AP9 LVI CC	Quant Date	: 12/4/2023 10:53 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\231204nlvi\
Data File : ADP1204n.D
Acq On : 4 Dec 2023 10:51 pm
Operator : SV107:sz
Sample : wg1859679-5,32,,ADP LVI CCV Lot # 10309
Misc : wg1859679,,ical20485
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 05 09:33:12 2023
Quant Method : I:\8270\SV107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 09:32:51 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	95	0.00
33	T	n-Decane		1.710	1.478	13.6	84	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	96	0.00
86	T	Atrazine	*	5.000	4.558	8.8	101	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	104	0.00
100	T	n-Octadecane		0.553	0.414	25.1#	78	0.00
101	T	Parathion	*	5.000	3.985	20.3#	88	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	4.799	4.0	116	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231204nlvi\
Data File : ADP1204n.D
Acq On : 4 Dec 2023 10:51 pm
Operator : SV107:sz
Sample : wg1859679-5,32,,ADP LVI CCV Lot # 10309
Misc : wg1859679,,ical20485
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 05 09:33:12 2023
Quant Method : I:\8270\SV107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 09:32:51 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.457	152	26791	4.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	9.633	164	56085	4.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	11.069	188	125576	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.351	57	49498	4.322	ug/ml#	45
86) Atrazine	10.839	200	22382	4.558	ug/ml	96
100) n-Octadecane	11.045	57	64912	3.739	ug/ml#	1
101) Parathion	11.851	109	9055	3.985	ug/ml	93
102) 3,3'-Dimethylbenzidine	13.127	212	77068	4.799	ug/ml	99

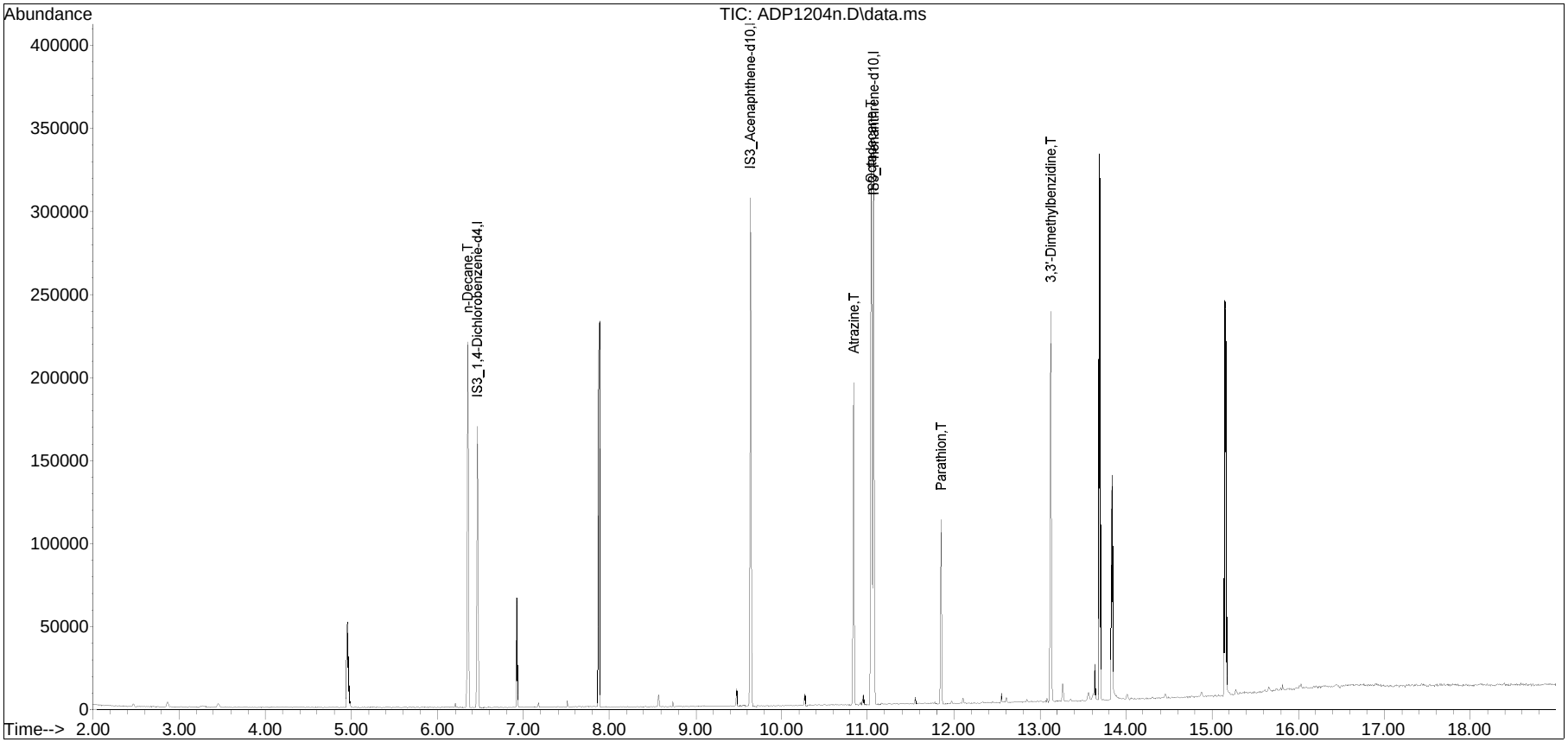
(#) = qualifier out of range (m) = manual integration (+) = signals summed

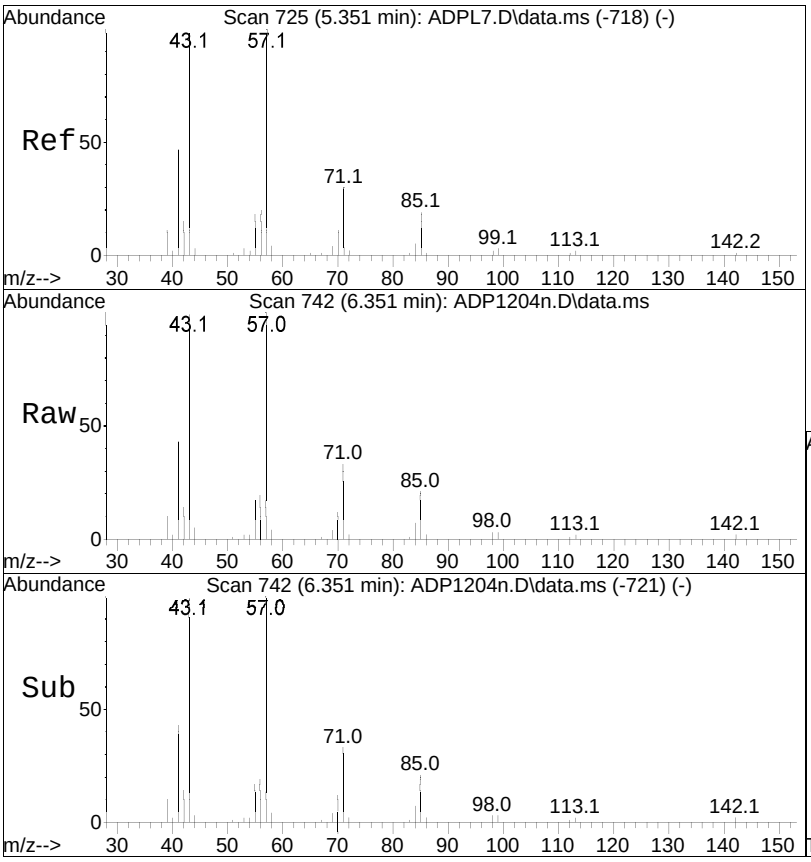
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231204nlvi\
Data File : ADP1204n.D
Acq On : 4 Dec 2023 10:51 pm
Operator : SV107:sz
Sample : wg1859679-5,32,,ADP LVI CCV Lot # 10309
Misc : wg1859679,,ical20485
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 05 09:33:12 2023
Quant Method : I:\8270\SV107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 09:32:51 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

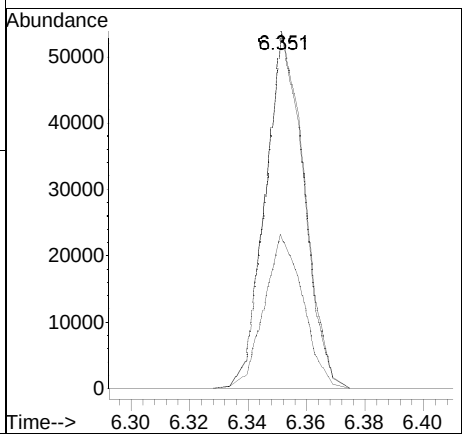


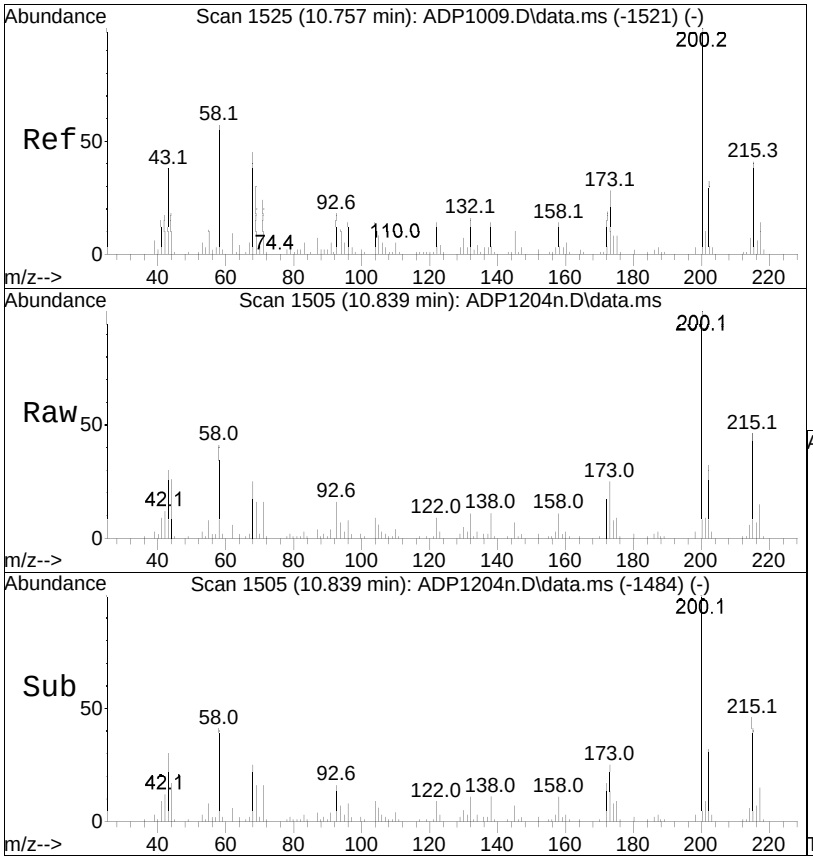


#33
n-Decane
Concen: 4.32 ug/ml
RT: 6.351 min Scan# 742
Delta R.T. 0.000 min
Lab File: ADP1204n.D
Acq: 4 Dec 2023 10:51 pm

Tgt Ion: 57 Resp: 49498

Ion	Ratio	Lower	Upper
57	100		
43	97.7	0.2	0.2#
41	43.0	0.2	0.2#

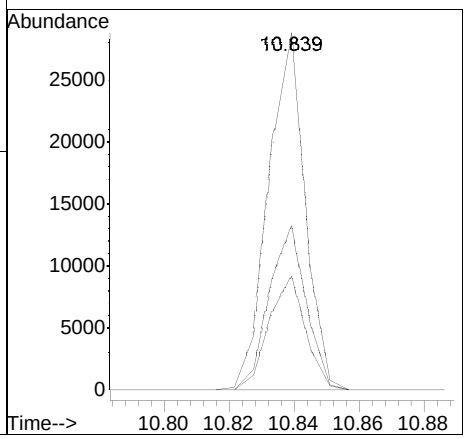


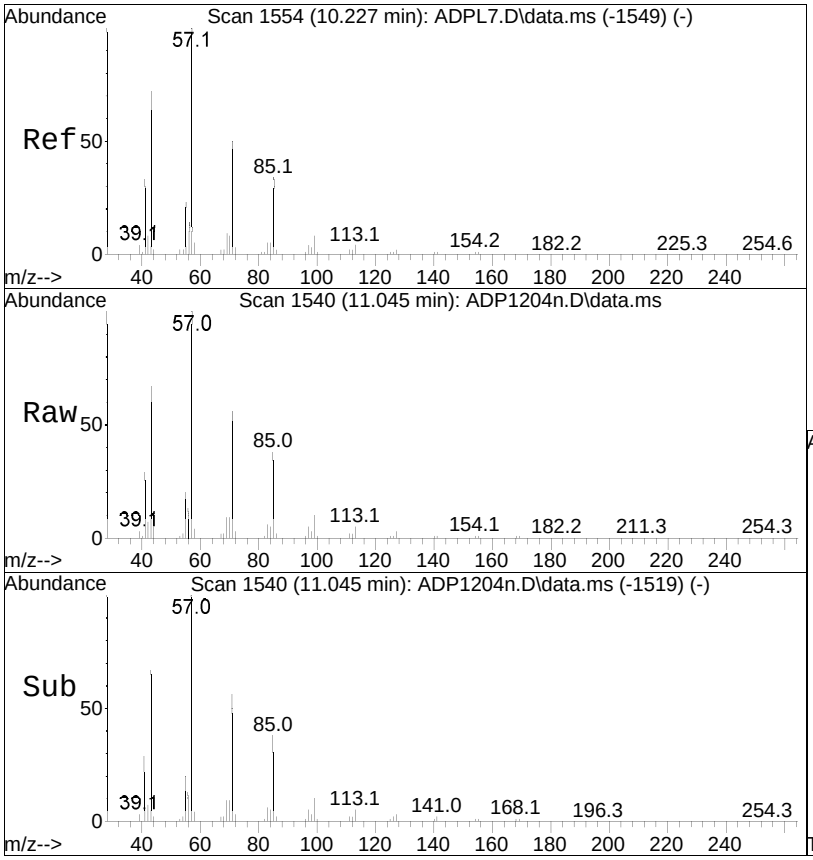


#86
Atrazine
Concen: 4.56 ug/ml
RT: 10.839 min Scan# 1505
Delta R.T. 0.000 min
Lab File: ADP1204n.D
Acq: 4 Dec 2023 10:51 pm

Tgt Ion:200 Resp: 22382

Ion	Ratio	Lower	Upper
200	100		
202	32.0	25.8	38.6
215	46.5	40.2	60.4

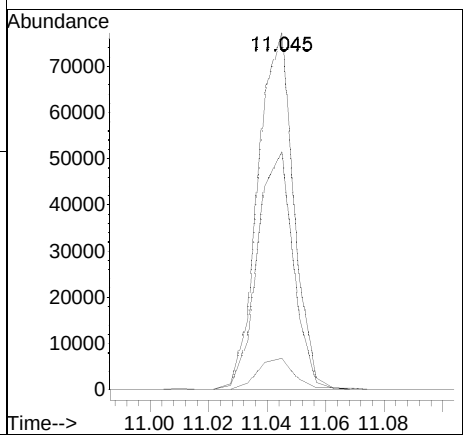


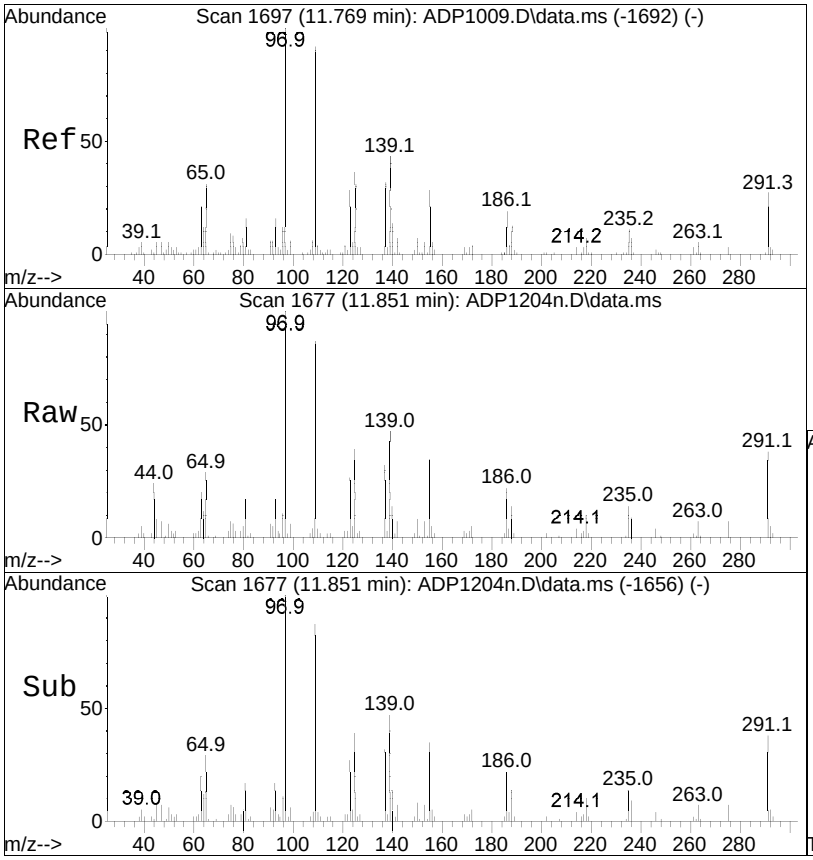


#100
n-Octadecane
Concen: 3.74 ug/ml
RT: 11.045 min Scan# 1540
Delta R.T. 0.000 min
Lab File: ADP1204n.D
Acq: 4 Dec 2023 10:51 pm

Tgt Ion: 57 Resp: 64912

Ion	Ratio	Lower	Upper
57	100		
43	67.7	9.0	13.6#
70	9.3	0.2	0.2#

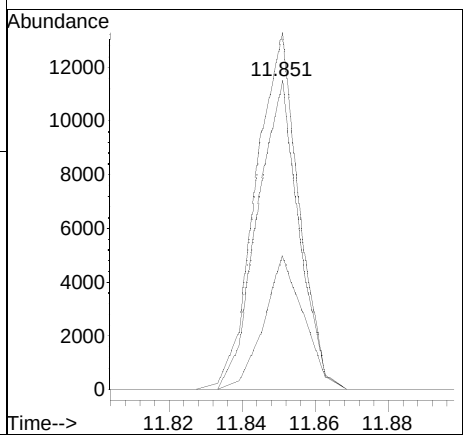


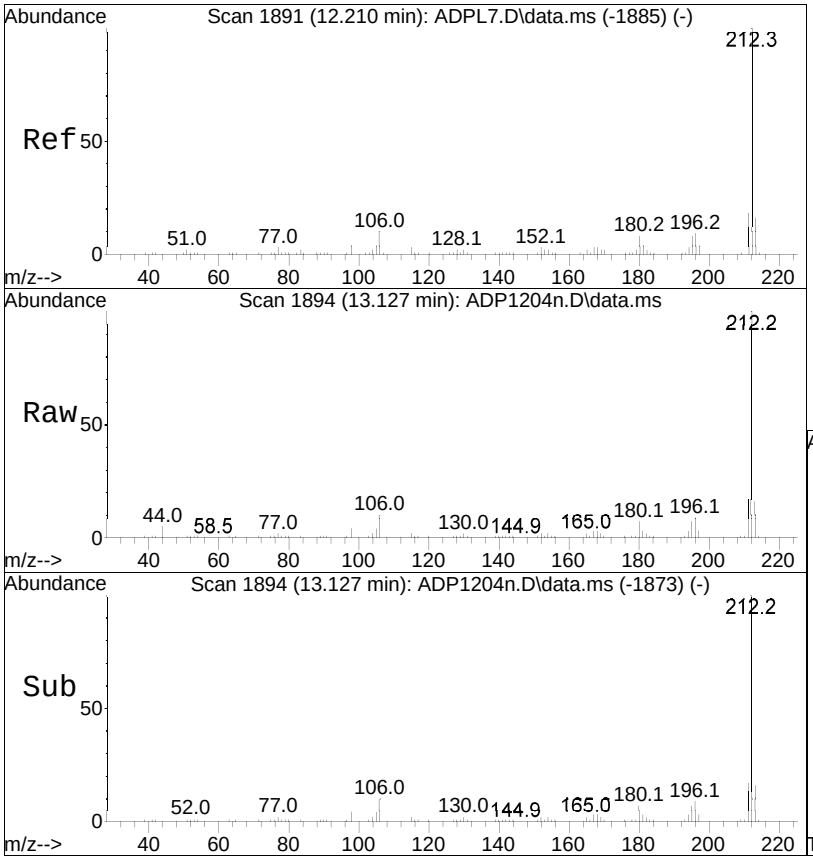


#101
Parathion
Concen: 3.98 ug/ml
RT: 11.851 min Scan# 1677
Delta R.T. 0.000 min
Lab File: ADP1204n.D
Acq: 4 Dec 2023 10:51 pm

Tgt Ion:109 Resp: 9055

Ion	Ratio	Lower	Upper
109	100		
97	119.4	87.4	131.2
291	41.4	34.2	51.2

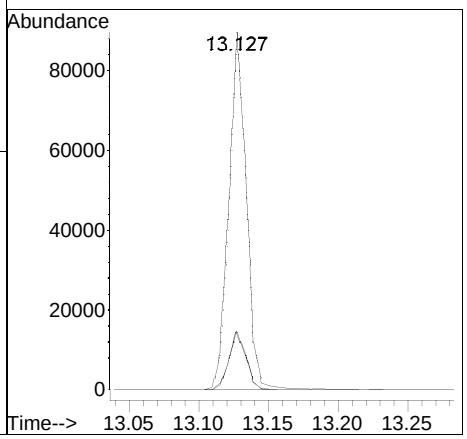




#102
3,3'-Dimethylbenzidine
Concen: 4.80 ug/ml
RT: 13.127 min Scan# 1894
Delta R.T. 0.000 min
Lab File: ADP1204n.D
Acq: 4 Dec 2023 10:51 pm

Tgt Ion:212 Resp: 77068

Ion	Ratio	Lower	Upper
212	100		
211	16.2	12.9	19.3
213	16.0	13.2	19.8



Manual Integration Report

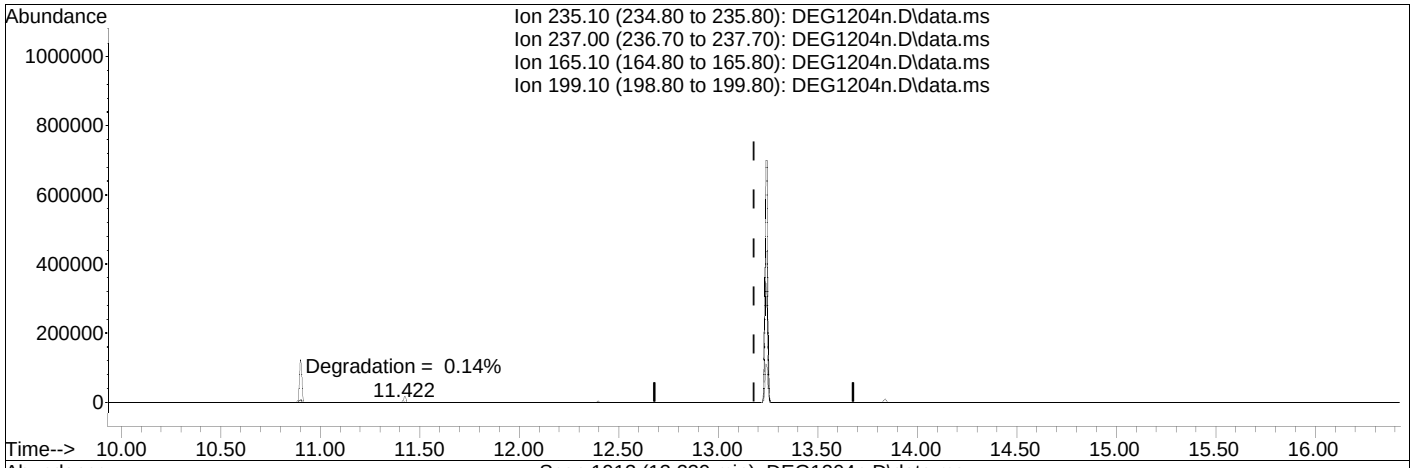
Data Path	: I:\8270\SV107\231204nlvi\	QMethod	: FS231025SV107.m
Data File	: ADP1204n.D	Operator	: SV107:sz
Date Inj'd	: 12/4/2023 10:51 pm	Instrument	: SV107
Sample	: wg1859679-5,32,,ADP LVI CC	Quant Date	: 12/5/2023 9:33 am

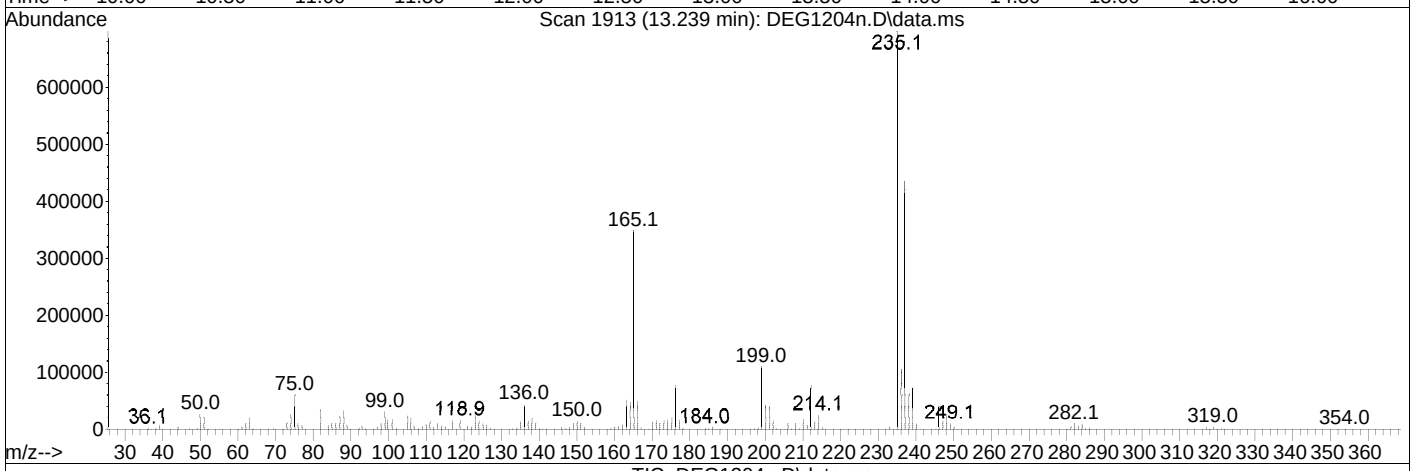
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231204nlvi\
Data File : DEG1204n.D
Acq On : 4 Dec 2023 9:30 pm
Operator : SV107:sz
Sample : wg1859679-2,32,,SV107 Degdftp
Misc : wg1859679,,ical20485
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 04 21:53:51 2023
Quant Method : I:\8270\SV107\231204nlvi\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 03 20:14:22 2023
Response via : Initial Calibration





TIC: DEG1204n.D\data.ms

(6) DDT (T)

13.239min (+ 0.059) 109.91

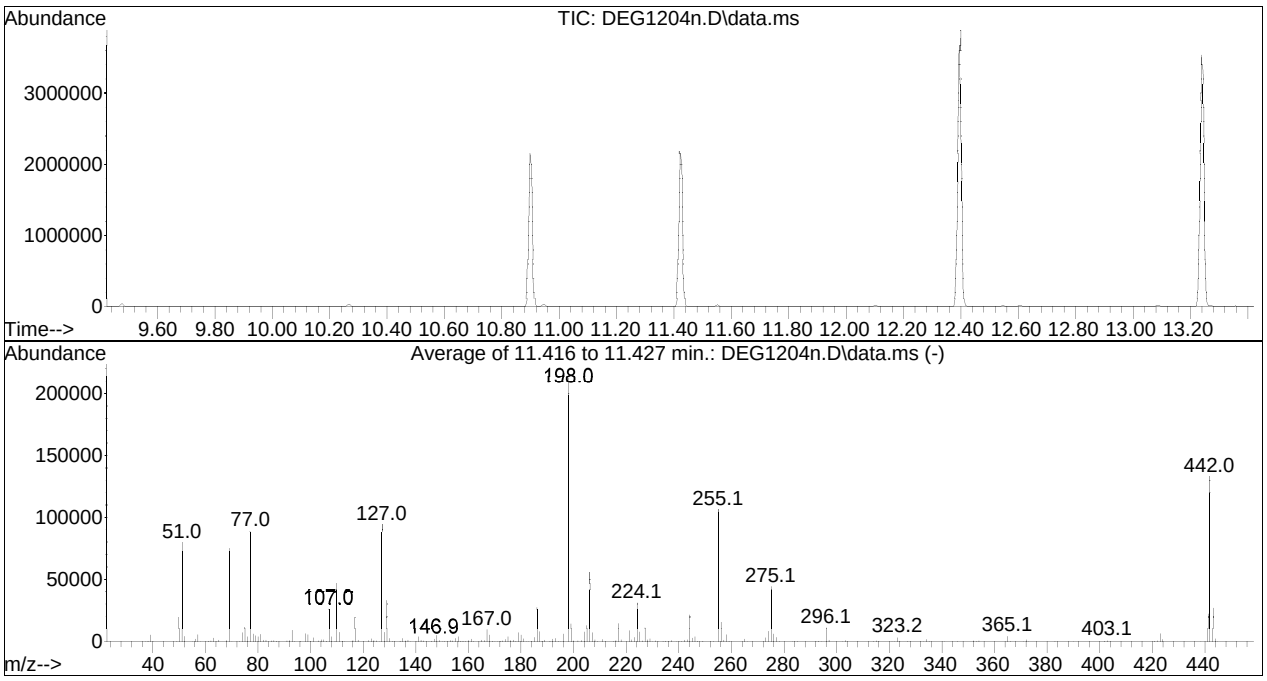
response 670008

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.70	62.77
165.10	52.70	47.77
199.10	15.10	15.06

Data Path : I:\8270\SV107\231204nlvi\
Data File : DEG1204n.D
Acq On : 4 Dec 2023 9:30 pm
Operator : SV107: ASK
Sample : WG1859679-1,32,,SV107 Degdftp
Misc : WG1859679,,ical20485
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV107\231204nlvi\FS231025SV107.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Dec 04 22:53:20 2023



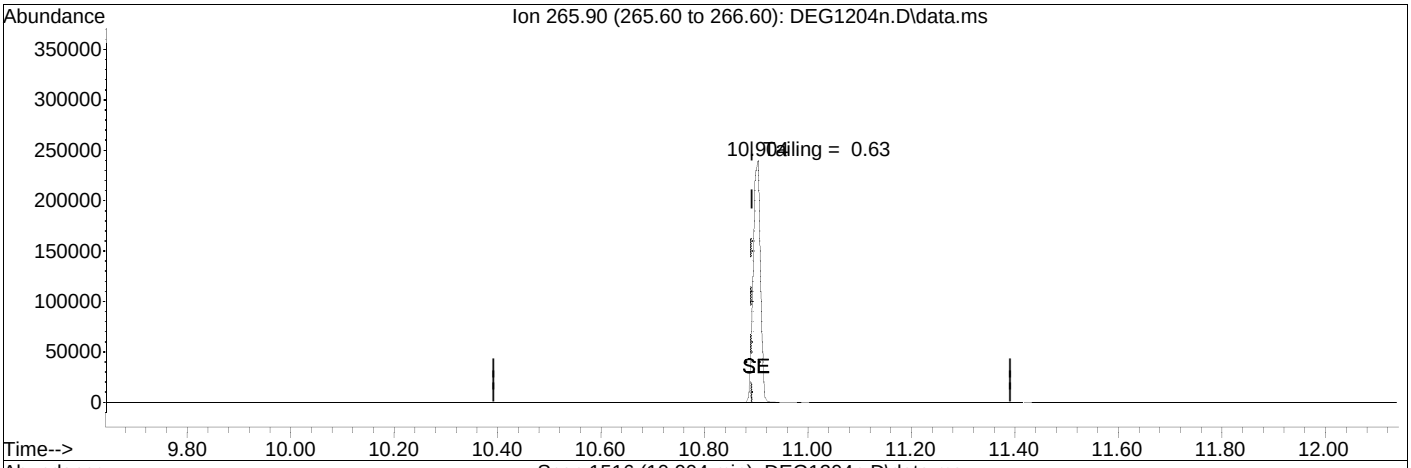
Spectrum Information: Average of 11.416 to 11.427 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.3	79344	PASS
68	69	0.00	2	1.6	1196	PASS
69	69	100	100	100.0	75040	PASS
70	69	0.00	2	0.5	406	PASS
127	198	10	80	44.2	93987	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	212829	PASS
199	198	5	9	6.6	14064	PASS
275	198	10	60	20.8	44167	PASS
365	198	1	100	2.0	4342	PASS
441	442	0.01	24	16.8	22382	PASS
442	198	50	100	62.5	132981	PASS
443	442	15	24	20.2	26890	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231204nlvi\
Data File : DEG1204n.D
Acq On : 4 Dec 2023 9:30 pm
Operator : SV107:sz
Sample : wg1859679-7,32,,SV107 Degdftp
Misc : wg1859679,,ical20485
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 04 21:53:51 2023
Quant Method : I:\8270\SV107\231204nlvi\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 03 20:14:22 2023
Response via : Initial Calibration



TIC: DEG1204n.D\data.ms

(1) Pentachlorophenol (T)

10.904min (+ 0.012) 102.61

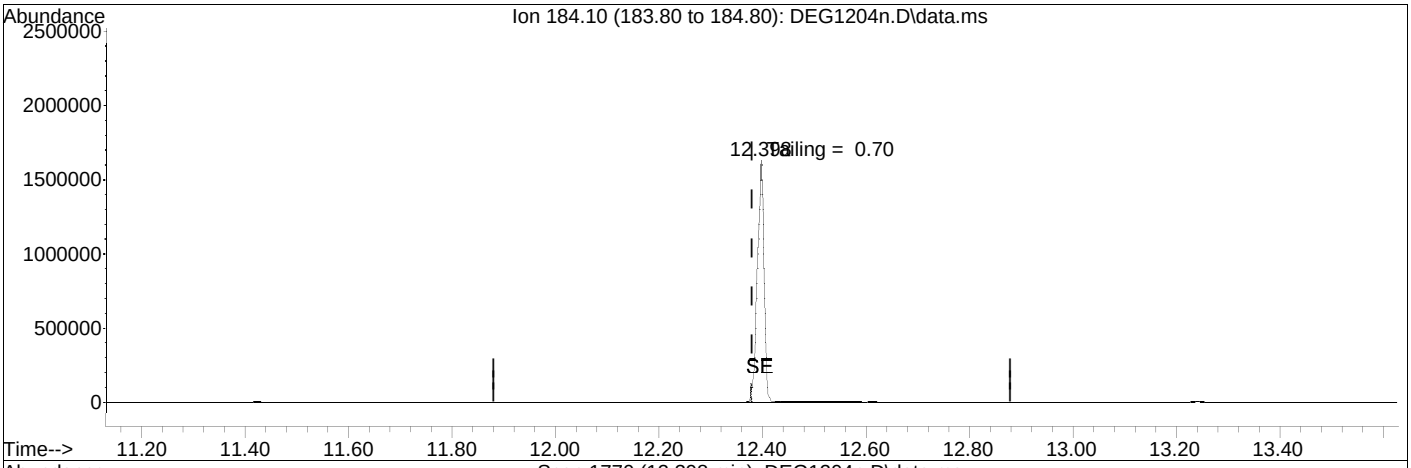
response 215510

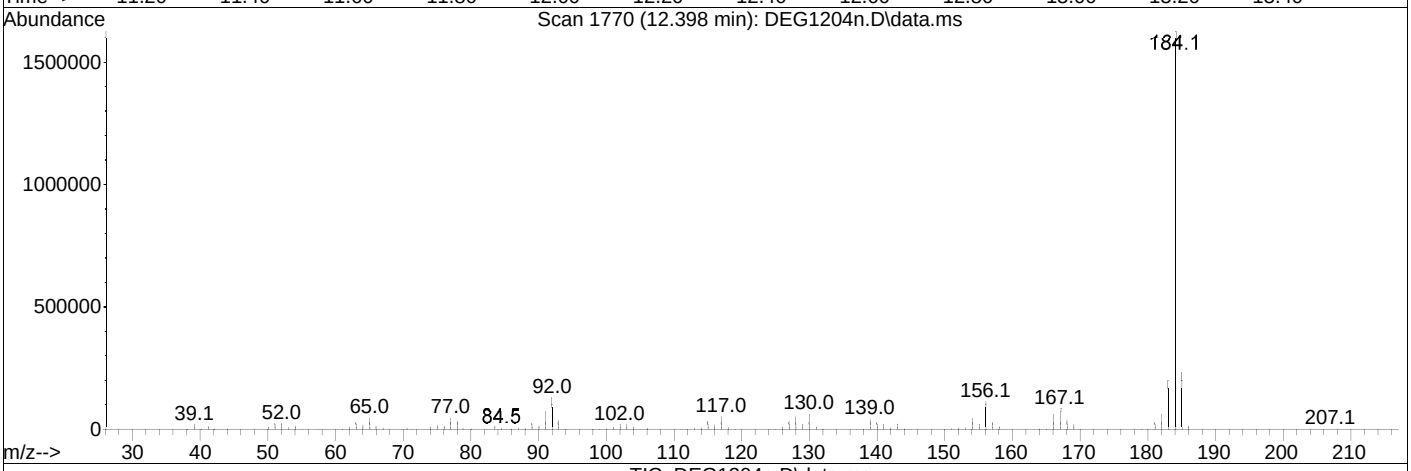
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231204nlvi\
Data File : DEG1204n.D
Acq On : 4 Dec 2023 9:30 pm
Operator : SV107:sz
Sample : wg1859679-6,32,,SV107 Degdftp
Misc : wg1859679,,ical20485
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 04 21:53:51 2023
Quant Method : I:\8270\SV107\231204nlvi\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 03 20:14:22 2023
Response via : Initial Calibration





TIC: DEG1204n.D\data.ms

(3) Benzidine (T)

12.398min (+ 0.018) 133.53

response 1359352

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/04/23 21:57		
Lab File ID	: ABN1204N	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1859679-3	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
n-Nitrosodimethylamine	0.728	0.755	-	-3.7	20	110	0
Pyridine	1.296	1.405	-	-8.4	20	112	0
2-Fluorophenol	1.08	1.126	-	-4.3	20	106	0
Aniline	1.802	1.852	-	-2.8	20	105	0
2-Chlorophenol	1.192	1.249	-	-4.8	20	110	0
Phenol-d6	1.36	1.408	-	-3.5	20	108	0
Phenol	1.458	1.555	-	-6.7	20	111	0
Bis(2-chloroethyl)ether	1.209	1.225	-	-1.3	20	105	0
1,3-Dichlorobenzene	1.438	1.503	-	-4.5	20	112	0
1,4-Dichlorobenzene	1.47	1.521	-	-3.5	20	111	0
1,2-Dichlorobenzene	1.398	1.44	-	-3	20	109	0
Benzyl alcohol	0.952	0.938	-	1.5	20	101	0
Bis(2-chloroisopropyl)ethe	2.449	2.074	-	15.3	20	89	0
2-Methylphenol	1.039	1.078	-	-3.8	20	106	0
Hexachloroethane	0.573	0.56	-	2.3	20	105	0
n-Nitrosodi-n-propylamine	0.894	0.845	-	5.5	20	100	0
3-Methylphenol/4-Methylphe	1.118	1.141	-	-2.1	20	106	0
Nitrobenzene-d5	1.288	1.245	-	3.3	20	101	0
Nitrobenzene	1.324	1.284	-	3	20	102	0
Isophorone	2.322	2.187	-	5.8	20	98	0
2-Nitrophenol	0.61	0.629	-	-3.1	20	113	0
2,4-Dimethylphenol	1.205	1.21	-	-0.4	20	103	0
Bis(2-chloroethoxy)methane	1.603	1.569	-	2.1	20	103	0
2,4-Dichlorophenol	1.079	1.118	-	-3.6	20	109	0
1,2,4-Trichlorobenzene	1.267	1.259	-	0.6	20	109	0
IS1_Naphthalene-d8	1	1	-	0	20	99	0
Naphthalene	1.004	1.002	-	0.2	20	103	0
Benzoic Acid	5	4.647	-	7.1	20	102	0
4-Chloroaniline	0.137	0.127	-	7.3	20	91	0
Hexachlorobutadiene	0.199	0.206	-	-3.5	20	108	0
p-Chloro-m-cresol	0.279	0.283	-	-1.4	20	106	0
2-Methylnaphthalene	0.668	0.662	-	0.9	20	101	0
1-Methylnaphthalene	0.236	0.228	-	3.4	20	100	0
Hexachlorocyclopentadiene	0.223	0.257	-	-15.2	20	120	0
2,4,6-Trichlorophenol	0.21	0.235	-	-11.9	20	112	0
2,4,5-Trichlorophenol	0.228	0.246	-	-7.9	20	108	0
2-Fluorobiphenyl	0.815	0.84	-	-3.1	20	105	0
2-Chloronaphthalene	0.685	0.717	-	-4.7	20	107	0
2-Nitroaniline	5	4.461	-	10.8	20	98	0
1,4-Dinitrobenzene	0.099	0.096	-	3	20	104	0
1,3-Dinitrobenzene	0.113	0.113	-	0	20	105	0
Dimethyl phthalate	0.814	0.812	-	0.2	20	99	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/04/23 21:57		
Lab File ID	: ABN1204N	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1859679-3	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.107	1.101	-	0.5	20	100	0
2,6-Dinitrotoluene	0.167	0.166	-	0.6	20	100	0
1,2-Dinitrobenzene	0.073	0.076	-	-4.1	20	109	0
IS1_Acenaphthene-d10	1	1	-	0	20	94	0
3-Nitroaniline	0.306	0.297	-	2.9	20	97	0
Acenaphthene	1.115	1.151	-	-3.2	20	106	0
2,4-Dinitrophenol	5	5.484	-	-9.7	20	120	0
Dibenzofuran	1.672	1.806	-	-8	20	109	0
2,4-Dinitrotoluene	0.395	0.402	-	-1.8	20	100	0
4-Nitrophenol	0.308	0.246	-	20.1*	20	80	0
2,3,5,6-Tetrachlorophenol	0.307	0.372	-	-21.2*	20	118	0
2,3,4,6-Tetrachlorophenol	5	5.435	-	-8.7	20	114	0
Diethyl phthalate	1.338	1.374	-	-2.7	20	100	0
Fluorene	1.297	1.395	-	-7.6	20	108	0
4-Chlorophenyl phenyl ethe	0.663	0.72	-	-8.6	20	112	0
4-Nitroaniline	0.304	0.308	-	-1.3	20	99	0
4,6-Dinitro-o-cresol	5	5.697	-	-13.9	20	123	0
NDPA/DPA	1.09	1.204	-	-10.5	20	109	0
Azobenzene	1.322	1.292	-	2.3	20	97	0
2,4,6-Tribromophenol	5	5.259	-	-5.2	20	116	0
4-Bromophenyl phenyl ether	0.352	0.405	-	-15.1	20	117	0
Hexachlorobenzene	0.37	0.407	-	-10	20	112	0
Pentachlorophenol	5	5.461	-	-9.2	20	121	0
IS1_Phenanthrene-d10	1	1	-	0	20	105	0
Phenanthrene	1.068	1.029	-	3.7	20	108	0
Anthracene	1.052	1.016	-	3.4	20	104	0
Carbazole	0.921	0.9	-	2.3	20	104	0
Di-n-butylphthalate	1.16	1.063	-	8.4	20	102	0
Fluoranthene	1.197	1.184	-	1.1	20	107	0
Benzidine	5	4.661	-	6.8	20	106	0
Pyrene	1.273	1.251	-	1.7	20	104	0
4-Terphenyl-d14	0.819	0.893	-	-9	20	118	0
Butyl benzyl phthalate	5	4.532	-	9.4	20	112	0
IS1_Chrysene-d12	1	1	-	0	20	122	0
Benzo(a)anthracene	1.358	1.319	-	2.9	20	125	0
3,3'-Dichlorobenzidine	0.462	0.435	-	5.8	20	124	0
Chrysene	1.352	1.231	-	8.9	20	118	0
Bis(2-ethylhexyl)phthalate	5	4.645	-	7.1	20	121	0
Di-n-octylphthalate	5	4.322	-	13.6	20	117	0
Benzo(b)fluoranthene	1.265	1.239	-	2.1	20	123	0
Benzo(k)fluoranthene	1.222	1.173	-	4	20	111	0
Benzo(a)pyrene	1.086	1.022	-	5.9	20	114	0
IS1_Perylene-d12	1	1	-	0	20	116	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 12/04/23 21:57	
Lab File ID	: ABN1204N		**Init. Calib. Date(s)**	: 10/26/23	10/27/23
Sample No	: WG1859679-3		**Init. Calib. Times**	: 00:22	13:53
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.88	0.9	-	-2.3	20	126	0
Dibenzo(a,h)anthracene	0.987	1	-	-1.3	20	120	0
Benzo(ghi)perylene	0.995	1.007	-	-1.2	20	118	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/04/23 22:24		
Lab File ID	: AP91204N	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1859679-4	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	104	0
Benzaldehyde	0.929	0.951	-	-2.4	20	100	0
Acetophenone	1.694	1.656	-	2.2	20	100	0
m-Toluidine	1.56	1.584	-	-1.5	20	101	0
2-Chloroaniline	1.486	1.48	-	0.4	20	100	0
IS2_Naphthalene-d8	1	1	-	0	20	105	0
a-Terpineol	0.334	0.28	-	16.2	20	86	0
3-Chloroaniline	0.157	0.136	-	13.4	20	89	0
2,6-Dichlorophenol	0.265	0.274	-	-3.4	20	106	0
1-chloro-2-nitrobenzene	0.143	0.13	-	9.1	20	97	0
Caprolactam	0.193	0.138	-	28.5*	20	80	0
1,2,4,5-Tetrachlorobenzene	0.331	0.363	-	-9.7	20	111	0
Biphenyl	0.813	0.831	-	-2.2	20	103	0
IS2_Acenaphthene-d10	1	1	-	0	20	101	0
Dichloran	0.158	0.144	-	8.9	20	105	0
Pentachloronitrobenzene	0.161	0.158	-	1.9	20	105	0
IS2_Phenanthrene-d10	1	1	-	0	20	111	0
Diphenamid	0.448	0.403	-	10	20	98	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 12/04/23 22:51	
Lab File ID	: ADP1204N		**Init. Calib. Date(s)**	: 10/26/23	10/27/23
Sample No	: WG1859679-5		**Init. Calib. Times**	: 00:22	13:53
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	95	0
n-Decane	1.71	1.478	-	13.6	20	84	0
IS3_Acenaphthene-d10	1	1	-	0	20	96	0
Atrazine	5	4.558	-	8.8	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	104	0
n-Octadecane	0.553	0.414	-	25.1*	20	78	0
Parathion	5	3.985	-	20.3*	20	88	0
3,3'-Dimethylbenzidine	5	4.799	-	4	20	116	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 12/04/23 23:25		
Lab File ID	: ABN1204NA	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1859682-3	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	82	0
n-Nitrosodimethylamine	0.677	0.75	-	-10.8	20	99	0
Pyridine	1.151	1.321	-	-14.8	20	103	0
2-Fluorophenol	1.116	1.058	-	5.2	20	88	0
Aniline	1.893	1.734	-	8.4	20	83	0
2-Chlorophenol	1.274	1.185	-	7	20	82	0
Phenol-d6	1.437	1.369	-	4.7	20	85	0
Phenol	1.521	1.445	-	5	20	87	0
Bis(2-chloroethyl)ether	1.222	1.147	-	6.1	20	85	0
1,3-Dichlorobenzene	1.461	1.329	-	9	20	82	0
1,4-Dichlorobenzene	1.503	1.348	-	10.3	20	83	0
1,2-Dichlorobenzene	1.431	1.273	-	11	20	81	0
Benzyl alcohol	1.074	1.033	-	3.8	20	86	0
Bis(2-chloroisopropyl)ethe	1.8	1.86	-	-3.3	20	93	0
2-Methylphenol	1.138	1.05	-	7.7	20	85	0
Hexachloroethane	0.586	0.552	-	5.8	20	85	0
n-Nitrosodi-n-propylamine	0.923	0.874	-	5.3	20	87	0
3-Methylphenol/4-Methylphe	1.193	1.085	-	9.1	20	82	0
Nitrobenzene-d5	1.303	1.347	-	-3.4	20	96	0
Nitrobenzene	1.295	1.346	-	-3.9	20	93	0
Isophorone	2.478	2.312	-	6.7	20	85	0
2-Nitrophenol	0.518	0.6	-	-15.8	20	106	0
2,4-Dimethylphenol	1.281	1.154	-	9.9	20	79	0
Bis(2-chloroethoxy)methane	1.552	1.507	-	2.9	20	88	0
2,4-Dichlorophenol	1.076	1.036	-	3.7	20	84	0
1,2,4-Trichlorobenzene	1.235	1.106	-	10.4	20	83	0
IS1_Naphthalene-d8	1	1	-	0	20	82	0
Naphthalene	1.008	0.909	-	9.8	20	83	0
Benzoic Acid	5	5.77	-	-15.4	20	116	0
4-Chloroaniline	0.132	0.126	-	4.5	20	87	0
Hexachlorobutadiene	0.206	0.172	-	16.5	20	78	0
p-Chloro-m-cresol	0.291	0.273	-	6.2	20	83	0
2-Methylnaphthalene	0.642	0.561	-	12.6	20	80	0
1-Methylnaphthalene	0.241	0.225	-	6.6	20	84	0
Hexachlorocyclopentadiene	0.219	0.207	-	5.5	20	87	0
2,4,6-Trichlorophenol	0.209	0.188	-	10	20	84	0
2,4,5-Trichlorophenol	0.224	0.205	-	8.5	20	86	0
2-Fluorobiphenyl	0.764	0.649	-	15.1	20	79	0
2-Chloronaphthalene	0.669	0.599	-	10.5	20	82	0
2-Nitroaniline	5	4.776	-	4.5	20	92	0
1,4-Dinitrobenzene	5	5.269	-	-5.4	20	110	0
1,3-Dinitrobenzene	5	5.308	-	-6.2	20	104	0
Dimethyl phthalate	0.787	0.72	-	8.5	20	83	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 12/04/23 23:25		
Lab File ID	: ABN1204NA	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1859682-3	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.077	0.956	-	11.2	20	83	0
2,6-Dinitrotoluene	5	5.043	-	-0.9	20	99	0
1,2-Dinitrobenzene	0.063	0.065	-	-3.2	20	95	0
IS1_Acenaphthene-d10	1	1	-	0	20	85	0
3-Nitroaniline	0.286	0.293	-	-2.4	20	95	0
Acenaphthene	1.131	0.959	-	15.2	20	81	0
2,4-Dinitrophenol	5	6.199	-	-24*	20	128	0
Dibenzofuran	1.69	1.468	-	13.1	20	82	0
2,4-Dinitrotoluene	5	4.969	-	0.6	20	100	0
4-Nitrophenol	5	5.658	-	-13.2	20	116	0
2,3,5,6-Tetrachlorophenol	0.325	0.295	-	9.2	20	84	0
2,3,4,6-Tetrachlorophenol	0.337	0.291	-	13.6	20	80	0
Diethyl phthalate	1.415	1.32	-	6.7	20	86	0
Fluorene	1.336	1.166	-	12.7	20	82	0
4-Chlorophenyl phenyl ethe	0.637	0.534	-	16.2	20	80	0
4-Nitroaniline	0.289	0.285	-	1.4	20	87	0
4,6-Dinitro-o-cresol	5	6.143	-	-22.9*	20	139	0
NDPA/DPA	1.124	0.961	-	14.5	20	79	0
Azobenzene	1.319	1.234	-	6.4	20	87	0
2,4,6-Tribromophenol	0.184	0.163	-	11.4	20	81	0
4-Bromophenyl phenyl ether	0.371	0.31	-	16.4	20	79	0
Hexachlorobenzene	0.432	0.344	-	20.4*	20	77	0
Pentachlorophenol	5	4.204	-	15.9	20	83	0
IS1_Phenanthrene-d10	1	1	-	0	20	87	0
Phenanthrene	1.089	0.897	-	17.6	20	80	0
Anthracene	1.084	0.897	-	17.3	20	79	0
Carbazole	0.991	0.853	-	13.9	20	81	0
Di-n-butylphthalate	1.269	1.131	-	10.9	20	84	0
Fluoranthene	1.165	0.96	-	17.6	20	80	0
Benzidine	0.77	0.598	-	22.3*	20	74	0
Pyrene	1.233	1.032	-	16.3	20	81	0
4-Terphenyl-d14	0.877	0.733	-	16.4	20	80	0
Butyl benzyl phthalate	0.541	0.512	-	5.4	20	90	0
IS1_Chrysene-d12	1	1	-	0	20	83	0
Benzo(a)anthracene	1.326	1.111	-	16.2	20	78	0
3,3'-Dichlorobenzidine	0.472	0.409	-	13.3	20	77	0
Chrysene	1.231	1.046	-	15	20	79	0
Bis(2-ethylhexyl)phthalate	0.889	0.944	-	-6.2	20	95	0
Di-n-octylphthalate	1.499	1.545	-	-3.1	20	91	0
Benzo(b)fluoranthene	1.266	1.188	-	6.2	20	88	0
Benzo(k)fluoranthene	1.214	1.002	-	17.5	20	72	0
Benzo(a)pyrene	1.083	0.951	-	12.2	20	80	0
IS1_Perylene-d12	1	1	-	0	20	82	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV106		**Calibration Date**	: 12/04/23 23:25	
Lab File ID	: ABN1204NA		**Init. Calib. Date(s)**	: 09/02/23	09/03/23
Sample No	: WG1859682-3		**Init. Calib. Times**	: 12:13	00:52
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.935	0.809	-	13.5	20	80	0
Dibenzo(a,h)anthracene	0.999	0.904	-	9.5	20	81	0
Benzo(ghi)perylene	0.991	0.9	-	9.2	20	82	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 12/04/23 23:49		
Lab File ID	: AP91204NA	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1859682-4	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	95	0
Benzaldehyde	0.928	1.078	-	-16.2	20	79	0
Acetophenone	1.994	1.917	-	3.9	20	70	0
m-Toluidine	1.55	1.8	-	-16.1	20	78	0
2-Chloroaniline	1.67	1.602	-	4.1	20	69	0
IS2_Naphthalene-d8	1	1	-	0	20	100	0
a-Terpineol	0.289	0.309	-	-6.9	20	82	0
3-Chloroaniline	0.15	0.156	-	-4	20	77	0
2,6-Dichlorophenol	0.277	0.275	-	0.7	20	73	0
1-chloro-2-nitrobenzene	0.131	0.144	-	-9.9	20	82	0
Caprolactam	0.147	0.162	-	-10.2	20	81	0
1,2,4,5-Tetrachlorobenzene	0.348	0.299	-	14.1	20	67	0
Biphenyl	0.856	0.772	-	9.8	20	69	0
IS2_Acenaphthene-d10	1	1	-	0	20	108	0
Dichloran	5	5.549	-	-11	20	95	0
Pentachloronitrobenzene	5	5.613	-	-12.3	20	92	0
IS2_Phenanthrene-d10	1	1	-	0	20	109	0
Diphenamid	0.508	0.469	-	7.7	20	73	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV106		**Calibration Date**	: 12/05/23 00:13	
Lab File ID	: ADP1204NA		**Init. Calib. Date(s)**	: 09/02/23	09/03/23
Sample No	: WG1859682-5		**Init. Calib. Times**	: 12:13	00:52
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	97	0
n-Decane	1.347	1.434	-	-6.5	20	105	0
IS3_Acenaphthene-d10	1	1	-	0	20	110	0
Atrazine	0.345	0.322	-	6.7	20	104	0
IS3_Phenanthrene-d10	1	1	-	0	20	116	0
n-Octadecane	0.46	0.501	-	-8.9	20	124	0
Parathion	0.094	0.115	-	-22.3*	20	156	0
3,3'-Dimethylbenzidine	5	4.011	-	19.8	20	99	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/06/23 07:03		
Lab File ID	: ABN1206	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1860349-3	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
n-Nitrosodimethylamine	0.728	0.734	-	-0.8	20	107	0
Pyridine	1.296	1.27	-	2	20	102	0
2-Fluorophenol	1.08	1.047	-	3.1	20	99	0
Aniline	1.802	1.724	-	4.3	20	98	0
2-Chlorophenol	1.192	1.138	-	4.5	20	101	0
Phenol-d6	1.36	1.307	-	3.9	20	100	0
Phenol	1.458	1.455	-	0.2	20	104	0
Bis(2-chloroethyl)ether	1.209	1.134	-	6.2	20	97	0
1,3-Dichlorobenzene	1.438	1.361	-	5.4	20	102	0
1,4-Dichlorobenzene	1.47	1.378	-	6.3	20	101	0
1,2-Dichlorobenzene	1.398	1.328	-	5	20	101	0
Benzyl alcohol	0.952	0.876	-	8	20	95	0
Bis(2-chloroisopropyl)ethe	2.449	1.883	-	23.1*	20	81	0
2-Methylphenol	1.039	0.984	-	5.3	20	97	0
Hexachloroethane	0.573	0.502	-	12.4	20	95	0
n-Nitrosodi-n-propylamine	0.894	0.774	-	13.4	20	91	0
3-Methylphenol/4-Methylphe	1.118	1.045	-	6.5	20	97	0
Nitrobenzene-d5	1.288	1.171	-	9.1	20	96	0
Nitrobenzene	1.324	1.197	-	9.6	20	96	0
Isophorone	2.322	2.07	-	10.9	20	93	0
2-Nitrophenol	0.61	0.581	-	4.8	20	105	0
2,4-Dimethylphenol	1.205	1.09	-	9.5	20	93	0
Bis(2-chloroethoxy)methane	1.603	1.41	-	12	20	93	0
2,4-Dichlorophenol	1.079	1.013	-	6.1	20	99	0
1,2,4-Trichlorobenzene	1.267	1.156	-	8.8	20	101	0
IS1_Naphthalene-d8	1	1	-	0	20	101	0
Naphthalene	1.004	0.912	-	9.2	20	96	0
Benzoic Acid	5	4.274	-	14.5	20	92	0
4-Chloroaniline	0.137	0.116	-	15.3	20	85	0
Hexachlorobutadiene	0.199	0.184	-	7.5	20	99	0
p-Chloro-m-cresol	0.279	0.255	-	8.6	20	98	0
2-Methylnaphthalene	0.668	0.596	-	10.8	20	92	0
1-Methylnaphthalene	0.236	0.199	-	15.7	20	89	0
Hexachlorocyclopentadiene	0.223	0.214	-	4	20	102	0
2,4,6-Trichlorophenol	0.21	0.198	-	5.7	20	96	0
2,4,5-Trichlorophenol	0.228	0.217	-	4.8	20	98	0
2-Fluorobiphenyl	0.815	0.715	-	12.3	20	92	0
2-Chloronaphthalene	0.685	0.62	-	9.5	20	94	0
2-Nitroaniline	5	4.12	-	17.6	20	91	0
1,4-Dinitrobenzene	0.099	0.086	-	13.1	20	95	0
1,3-Dinitrobenzene	0.113	0.1	-	11.5	20	95	0
Dimethyl phthalate	0.814	0.707	-	13.1	20	88	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/06/23 07:03		
Lab File ID	: ABN1206	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1860349-3	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.107	0.979	-	11.6	20	91	0
2,6-Dinitrotoluene	0.167	0.146	-	12.6	20	89	0
1,2-Dinitrobenzene	0.073	0.067	-	8.2	20	98	0
IS1_Acenaphthene-d10	1	1	-	0	20	97	0
3-Nitroaniline	0.306	0.272	-	11.1	20	91	0
Acenaphthene	1.115	1.003	-	10	20	95	0
2,4-Dinitrophenol	5	4.893	-	2.1	20	107	0
Dibenzofuran	1.672	1.541	-	7.8	20	96	0
2,4-Dinitrotoluene	0.395	0.348	-	11.9	20	89	0
4-Nitrophenol	0.308	0.221	-	28.2*	20	74	0
2,3,5,6-Tetrachlorophenol	0.307	0.306	-	0.3	20	100	0
2,3,4,6-Tetrachlorophenol	5	4.575	-	8.5	20	98	0
Diethyl phthalate	1.338	1.124	-	16	20	84	0
Fluorene	1.297	1.169	-	9.9	20	93	0
4-Chlorophenyl phenyl ethe	0.663	0.586	-	11.6	20	94	0
4-Nitroaniline	0.304	0.274	-	9.9	20	91	0
4,6-Dinitro-o-cresol	5	4.971	-	0.6	20	107	0
NDPA/DPA	1.09	0.998	-	8.4	20	93	0
Azobenzene	1.322	1.129	-	14.6	20	87	0
2,4,6-Tribromophenol	5	3.927	-	21.5*	20	88	0
4-Bromophenyl phenyl ether	0.352	0.306	-	13.1	20	91	0
Hexachlorobenzene	0.37	0.301	-	18.6	20	85	0
Pentachlorophenol	5	4.415	-	11.7	20	97	0
IS1_Phenanthrene-d10	1	1	-	0	20	100	0
Phenanthrene	1.068	0.908	-	15	20	91	0
Anthracene	1.052	0.922	-	12.4	20	90	0
Carbazole	0.921	0.817	-	11.3	20	89	0
Di-n-butylphthalate	1.16	0.928	-	20	20	85	0
Fluoranthene	1.197	1.019	-	14.9	20	88	0
Benzidine	5	4.281	-	14.4	20	90	0
Pyrene	1.273	1.105	-	13.2	20	88	0
4-Terphenyl-d14	0.819	0.703	-	14.2	20	88	0
Butyl benzyl phthalate	5	3.886	-	22.3*	20	88	0
IS1_Chrysene-d12	1	1	-	0	20	103	0
Benzo(a)anthracene	1.358	1.2	-	11.6	20	96	0
3,3'-Dichlorobenzidine	0.462	0.391	-	15.4	20	94	0
Chrysene	1.352	1.148	-	15.1	20	92	0
Bis(2-ethylhexyl)phthalate	5	3.954	-	20.9*	20	86	0
Di-n-octylphthalate	5	3.792	-	24.2*	20	84	0
Benzo(b)fluoranthene	1.265	1.079	-	14.7	20	90	0
Benzo(k)fluoranthene	1.222	1.075	-	12	20	85	0
Benzo(a)pyrene	1.086	0.938	-	13.6	20	88	0
IS1_Perylene-d12	1	1	-	0	20	98	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 12/06/23 07:03	
Lab File ID	: ABN1206		**Init. Calib. Date(s)**	: 10/26/23	10/27/23
Sample No	: WG1860349-3		**Init. Calib. Times**	: 00:22	13:53
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.88	0.829	-	5.8	20	98	0
Dibenzo(a,h)anthracene	0.987	0.921	-	6.7	20	93	0
Benzo(ghi)perylene	0.995	0.925	-	7	20	92	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/06/23 07:29		
Lab File ID	: AP91206	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1860349-4	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
Benzaldehyde	0.929	1.027	-	-10.5	20	107	0
Acetophenone	1.694	1.674	-	1.2	20	101	0
m-Toluidine	1.56	1.643	-	-5.3	20	104	0
2-Chloroaniline	1.486	1.494	-	-0.5	20	101	0
IS2_Naphthalene-d8	1	1	-	0	20	102	0
a-Terpineol	0.334	0.272	-	18.6	20	82	0
3-Chloroaniline	0.157	0.139	-	11.5	20	89	0
2,6-Dichlorophenol	0.265	0.267	-	-0.8	20	101	0
1-chloro-2-nitrobenzene	0.143	0.133	-	7	20	96	0
Caprolactam	0.193	0.143	-	25.9*	20	80	0
1,2,4,5-Tetrachlorobenzene	0.331	0.346	-	-4.5	20	103	0
Biphenyl	0.813	0.819	-	-0.7	20	99	0
IS2_Acenaphthene-d10	1	1	-	0	20	96	0
Dichloran	0.158	0.132	-	16.5	20	92	0
Pentachloronitrobenzene	0.161	0.139	-	13.7	20	88	0
IS2_Phenanthrene-d10	1	1	-	0	20	96	0
Diphenamid	0.448	0.382	-	14.7	20	80	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 12/06/23 07:55	
Lab File ID	: ADP1206		**Init. Calib. Date(s)**	: 10/26/23	10/27/23
Sample No	: WG1860349-5		**Init. Calib. Times**	: 00:22	13:53
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	115	0
n-Decane	1.71	1.469	-	14.1	20	100	0
IS3_Acenaphthene-d10	1	1	-	0	20	111	0
Atrazine	5	3.748	-	25*	20	97	0
IS3_Phenanthrene-d10	1	1	-	0	20	105	0
n-Octadecane	0.553	0.407	-	26.4*	20	78	0
Parathion	5	4.017	-	19.7	20	91	0
3,3'-Dimethylbenzidine	5	4.333	-	13.3	20	102	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\231204nalvi\
Data File : ABN1204na.D
Acq On : 4 Dec 2023 11:25 pm
Operator : SV106:sz
Sample : wg1859682-3,32,,ABN LVI CCV Lot # 10166
Misc : wg1859682,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 04 23:52:49 2023
Quant Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 23:52:34 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	82	0.00
2	t	n-Nitrosodimethylamine		0.677	0.750	-10.8	99	0.00
3	t	Pyridine		1.151	1.321	-14.8	103	0.00
4	S	2-Fluorophenol		1.116	1.058	5.2	88	0.00
5	T	Aniline		1.893	1.734	8.4	83	0.00
6	t	2-Chlorophenol		1.274	1.185	7.0	82	0.00
7	S	Phenol-d6		1.437	1.369	4.7	85	0.00
8	T	Phenol		1.521	1.445	5.0	87	0.00
9	T	Bis(2-chloroethyl)ether		1.222	1.147	6.1	85	0.00
10	T	1,3-Dichlorobenzene		1.461	1.329	9.0	82	0.00
11	T	1,4-Dichlorobenzene		1.503	1.348	10.3	83	0.00
12	T	1,2-Dichlorobenzene		1.431	1.273	11.0	81	0.00
13	t	Benzyl alcohol		1.074	1.033	3.8	86	0.00
14	T	Bis(2-chloroisopropyl)ether		1.800	1.860	-3.3	93	0.00
15	T	2-Methylphenol		1.138	1.050	7.7	85	0.00
16	T	Hexachloroethane		0.586	0.552	5.8	85	0.00
17	T	n-Nitrosodi-n-propylamine		0.923	0.874	5.3	87	0.00
18	T	3-Methylphenol/4-Methylphen		1.193	1.085	9.1	82	0.00
19	S	Nitrobenzene-d5		1.303	1.347	-3.4	96	0.00
20	T	Nitrobenzene		1.295	1.346	-3.9	93	0.00
21	T	Isophorone		2.478	2.312	6.7	85	0.00
22	T	2-Nitrophenol		0.518	0.600	-15.8	106	0.00
23	T	2,4-Dimethylphenol		1.281	1.154	9.9	79	0.00
24	T	Bis(2-chloroethoxy)methane		1.552	1.507	2.9	88	0.00
25	T	2,4-Dichlorophenol		1.076	1.036	3.7	84	0.00
26	T	1,2,4-Trichlorobenzene		1.235	1.106	10.4	83	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	82	0.00
35	T	Naphthalene		1.008	0.909	9.8	83	0.00
36	T	Benzoic Acid	*	5.000	5.770	-15.4	116	0.00
37	T	4-Chloroaniline		0.132	0.126	4.5	87	0.00
38	T	Hexachlorobutadiene		0.206	0.172	16.5	78	0.00
39	T	p-Chloro-m-cresol		0.291	0.273	6.2	83	0.00
40	T	2-Methylnaphthalene		0.642	0.561	12.6	80	0.00
41	T	1-Methylnaphthalene		0.241	0.225	6.6	84	0.00
42	T	Hexachlorocyclopentadiene		0.219	0.207	5.5	87	0.00
43	T	2,4,6-Trichlorophenol		0.209	0.188	10.0	84	0.00
44	T	2,4,5-Trichlorophenol		0.224	0.205	8.5	86	0.00
45	S	2-Fluorobiphenyl		0.764	0.649	15.1	79	0.00

Data Path : I:\8270\SV106\231204nalvi\
Data File : ABN1204na.D
Acq On : 4 Dec 2023 11:25 pm
Operator : SV106:sz
Sample : wg1859682-3,32,,ABN LVI CCV Lot # 10166
Misc : wg1859682,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 04 23:52:49 2023
Quant Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 23:52:34 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.669	0.599	10.5	82	0.00
47	T	2-Nitroaniline	*	5.000	4.776	4.5	92	0.00
48	T	1,4-Dinitrobenzene	*	5.000	5.269	-5.4	110	0.00
49	T	1,3-Dinitrobenzene	*	5.000	5.308	-6.2	104	0.00
50	T	Dimethyl phthalate		0.787	0.720	8.5	83	0.00
51	T	Acenaphthylene		1.077	0.956	11.2	83	0.00
52	T	2,6-Dinitrotoluene	*	5.000	5.043	-0.9	99	0.00
53	T	1,2-Dinitrobenzene		0.063	0.065	-3.2	95	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	85	0.00
63	T	3-Nitroaniline		0.286	0.293	-2.4	95	0.00
64	T	Acenaphthene		1.131	0.959	15.2	81	0.00
65	T	2,4-Dinitrophenol	*	5.000	6.199	-24.0#	128	0.00
66	T	Dibenzofuran		1.690	1.468	13.1	82	0.00
67	T	2,4-Dinitrotoluene	*	5.000	4.969	0.6	100	0.00
68	T	4-Nitrophenol	*	5.000	5.658	-13.2	116	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.325	0.295	9.2	84	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.337	0.291	13.6	80	0.00
71	T	Diethyl phthalate		1.415	1.320	6.7	86	0.00
72	T	Fluorene		1.336	1.166	12.7	82	0.00
73	T	4-Chlorophenyl phenyl ether		0.637	0.534	16.2	80	0.00
74	T	4-Nitroaniline		0.289	0.285	1.4	87	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	6.143	-22.9#	139	0.00
76	T	NDPA/DPA		1.124	0.961	14.5	79	0.00
77	T	Azobenzene		1.319	1.234	6.4	87	0.00
78	S	2,4,6-Tribromophenol		0.184	0.163	11.4	81	0.00
79	T	4-Bromophenyl phenyl ether		0.371	0.310	16.4	79	0.00
80	T	Hexachlorobenzene		0.432	0.344	20.4	77	0.00
81	T	Pentachlorophenol	*	5.000	4.204	15.9	83	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	87	0.00
88	T	Phenanthrene		1.089	0.897	17.6	80	0.00
89	T	Anthracene		1.084	0.897	17.3	79	0.00
90	T	Carbazole		0.991	0.853	13.9	81	0.00
91	T	Di-n-butylphthalate		1.269	1.131	10.9	84	0.00
92	T	Fluoranthene		1.165	0.960	17.6	80	0.00
93	T	Benzidine		0.770	0.598	22.3#	74	0.00
94	T	Pyrene		1.233	1.032	16.3	81	0.00
95	S	4-Terphenyl-d14		0.877	0.733	16.4	80	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\231204nalvi\
Data File : ABN1204na.D
Acq On : 4 Dec 2023 11:25 pm
Operator : SV106:sz
Sample : wg1859682-3,32,,ABN LVI CCV Lot # 10166
Misc : wg1859682,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 04 23:52:49 2023
Quant Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 23:52:34 2023
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.541	0.512	5.4	90	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	83	0.00
104	T	Benzo(a)anthracene	1.326	1.111	16.2	78	0.00
105	T	3,3'-Dichlorobenzidine	0.472	0.409	13.3	77	0.00
106	T	Chrysene	1.231	1.046	15.0	79	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.889	0.944	-6.2	95	0.00
108	T	Di-n-octylphthalate	1.499	1.545	-3.1	91	0.00
109	T	Benzo(b)fluoranthene	1.266	1.188	6.2	88	0.00
110	T	Benzo(k)fluoranthene	1.214	1.002	17.5	72	0.00
111	T	Benzo(a)pyrene	1.083	0.951	12.2	80	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	82	0.00
113	T	Indeno(1,2,3-cd)pyrene	0.935	0.809	13.5	80	0.00
114	T	Dibenzo(a,h)anthracene	0.999	0.904	9.5	81	0.00
115	T	Benzo(ghi)perylene	0.991	0.900	9.2	82	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : ABN1204na.D
Acq On : 4 Dec 2023 11:25 pm
Operator : SV106:sz
Sample : wg1859682-3,32,,ABN LVI CCV Lot # 10166
Misc : wg1859682,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 04 23:52:49 2023
Quant Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 23:52:34 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	5.528	152	35534	4.000	ug/ml		0.00
34) IS1_Naphthalene-d8	7.086	136	137007	4.000	ug/ml	#	0.00
62) IS1_Acenaphthene-d10	8.857	164	78857	4.000	ug/ml		0.00
87) IS1_Phenanthrene-d10	10.269	188	155365	4.000	ug/ml	#	0.00
103) IS1_Chrysene-d12	12.810	240	136847	4.000	ug/ml	#	0.00
112) IS1_Perylene-d12	14.198	264	150903	4.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	2.775	112	46991	4.742	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 94.84%				
7) Phenol-d6	5.163	99	60819	4.764	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 95.28%				
19) Nitrobenzene-d5	6.286	82	59851	5.171	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 206.84%#				
45) 2-Fluorobiphenyl	8.239	172	111111	4.248	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 169.92%#				
78) 2,4,6-Tribromophenol	9.622	330	16061	4.439	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 88.78%				
95) 4-Terphenyl-d14	11.845	244	142358	4.178	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 167.12%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	1.199	74	33304	5.535	ug/ml	#	68
3) Pyridine	1.222	79	58690	5.742	ug/ml	#	69
5) Aniline	5.028	93	77003	4.579	ug/ml		99
6) 2-Chlorophenol	5.210	128	52623	4.649	ug/ml		98
8) Phenol	5.181	94	64167	4.749	ug/ml		93
9) Bis(2-chloroethyl)ether	5.234	93	50928	4.692	ug/ml	#	79
10) 1,3-Dichlorobenzene	5.428	146	59037	4.549	ug/ml		100
11) 1,4-Dichlorobenzene	5.551	146	59881	4.485	ug/ml		98
12) 1,2-Dichlorobenzene	5.757	146	56552	4.448	ug/ml		98
13) Benzyl alcohol	5.816	79	45895	4.812	ug/ml		93
14) Bis(2-chloroisopropyl)...	6.028	45	82618	5.168	ug/ml	#	58
15) 2-Methylphenol	6.039	108	46624	4.613	ug/ml		98
16) Hexachloroethane	6.186	117	24507	4.708	ug/ml	#	83
17) n-Nitrosodi-n-propylamine	6.181	70	38840	4.735	ug/ml	#	91
18) 3-Methylphenol/4-Methy...	6.251	108	48196	4.546	ug/ml		95
20) Nitrobenzene	6.304	77	59784	5.198	ug/ml		97
21) Isophorone	6.616	82	102700	4.666	ug/ml	#	93
22) 2-Nitrophenol	6.692	139	26643	5.792	ug/ml	#	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : ABN1204na.D
Acq On : 4 Dec 2023 11:25 pm
Operator : SV106:sz
Sample : wg1859682-3,32,,ABN LVI CCV Lot # 10166
Misc : wg1859682,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 04 23:52:49 2023
Quant Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 23:52:34 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	6.845	107	51253	4.504	ug/ml	95
24) Bis(2-chloroethoxy)met...	6.928	93	66946	4.854	ug/ml	98
25) 2,4-Dichlorophenol	6.981	162	46007	4.815	ug/ml	95
26) 1,2,4-Trichlorobenzene	7.045	180	49123	4.478	ug/ml	99
35) Naphthalene	7.104	128	155670	4.507	ug/ml	100
36) Benzoic Acid	6.963	105	39183	5.770	ug/ml	98
37) 4-Chloroaniline	7.222	65	21660	4.790	ug/ml	96
38) Hexachlorobutadiene	7.298	225	29536	4.194	ug/ml	98
39) p-Chloro-m-cresol	7.786	107	46745	4.682	ug/ml	93
40) 2-Methylnaphthalene	7.845	142	96065	4.369	ug/ml#	93
41) 1-Methylnaphthalene	7.933	115	38529	4.672	ug/ml	77
42) Hexachlorocyclopentadiene	8.027	237	35468	4.723	ug/ml	98
43) 2,4,6-Trichlorophenol	8.157	196	32262	4.516	ug/ml	96
44) 2,4,5-Trichlorophenol	8.186	196	35145M3	4.574	ug/ml	
46) 2-Chloronaphthalene	8.316	162	102632	4.478	ug/ml	100
47) 2-Nitroaniline	8.451	138	30148	4.776	ug/ml	97
48) 1,4-Dinitrobenzene	8.586	168	14084	5.269	ug/ml	92
49) 1,3-Dinitrobenzene	8.663	168	16527	5.308	ug/ml#	1
50) Dimethyl phthalate	8.675	163	123272	4.571	ug/ml#	99
51) Acenaphthylene	8.710	152	163767	4.440	ug/ml	100
52) 2,6-Dinitrotoluene	8.704	165	26125M3	5.043	ug/ml	
53) 1,2-Dinitrobenzene	8.739	168	11125	5.127	ug/ml	96
63) 3-Nitroaniline	8.851	138	28852	5.115	ug/ml#	94
64) Acenaphthene	8.886	154	94558	4.243	ug/ml	91
65) 2,4-Dinitrophenol	8.951	184	16208	6.199	ug/ml	98
66) Dibenzofuran	9.057	168	144659	4.341	ug/ml#	71
67) 2,4-Dinitrotoluene	9.086	165	35458	4.969	ug/ml	93
68) 4-Nitrophenol	9.074	65	30617	5.658	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	9.163	232	29089	4.541	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	9.204	232	28679M3	4.314	ug/ml	
71) Diethyl phthalate	9.363	149	130120	4.665	ug/ml	96
72) Fluorene	9.386	166	114943	4.366	ug/ml	95
73) 4-Chlorophenyl phenyl ...	9.427	204	52599	4.187	ug/ml	99
74) 4-Nitroaniline	9.433	138	28137	4.942	ug/ml#	86
75) 4,6-Dinitro-o-cresol	9.469	198	21090	6.143	ug/ml#	78
76) NDPA/DPA	9.545	169	94713	4.275	ug/ml	94
77) Azobenzene	9.569	77	121622	4.676	ug/ml	97
79) 4-Bromophenyl phenyl e...	9.886	248	30547	4.178	ug/ml	97
80) Hexachlorobenzene	9.916	284	33864	3.979	ug/ml	94
81) Pentachlorophenol	10.116	266	20818	4.204	ug/ml	99
88) Phenanthrene	10.292	178	174260	4.118	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : ABN1204na.D
Acq On : 4 Dec 2023 11:25 pm
Operator : SV106:sz
Sample : wg1859682-3,32,,ABN LVI CCV Lot # 10166
Misc : wg1859682,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 04 23:52:49 2023
Quant Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 23:52:34 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Anthracene	10.339	178	174156	4.135	ug/ml	98
90) Carbazole	10.521	167	165752	4.307	ug/ml	99
91) Di-n-butylphthalate	10.945	149	219707	4.458	ug/ml	99
92) Fluoranthene	11.427	202	186470M3	4.122	ug/ml	
93) Benzidine	11.604	184	116171	3.887	ug/ml#	96
94) Pyrene	11.627	202	200437	4.185	ug/ml	99
96) Butyl benzyl phthalate	12.368	149	99390	4.726	ug/ml	94
104) Benzo(a)anthracene	12.804	228	190069	4.191	ug/ml	100
105) 3,3'-Dichlorobenzidine	12.827	252	70008	4.338	ug/ml	99
106) Chrysene	12.833	228	178879	4.249	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	12.992	149	161541	5.313	ug/ml#	90
108) Di-n-octylphthalate	13.639	149	264278	5.153	ug/ml#	76
109) Benzo(b)fluoranthene	13.851	252	203303M3	4.693	ug/ml	
110) Benzo(k)fluoranthene	13.874	252	171473	4.129	ug/ml	98
111) Benzo(a)pyrene	14.145	252	162676	4.389	ug/ml	97
113) Indeno(1,2,3-cd)pyrene	15.127	276	152597	4.328	ug/mL	94
114) Dibenzo(a,h)anthracene	15.156	278	170457	4.521	ug/ml#	94
115) Benzo(ghi)perylene	15.333	276	169822	4.540	ug/ml#	92

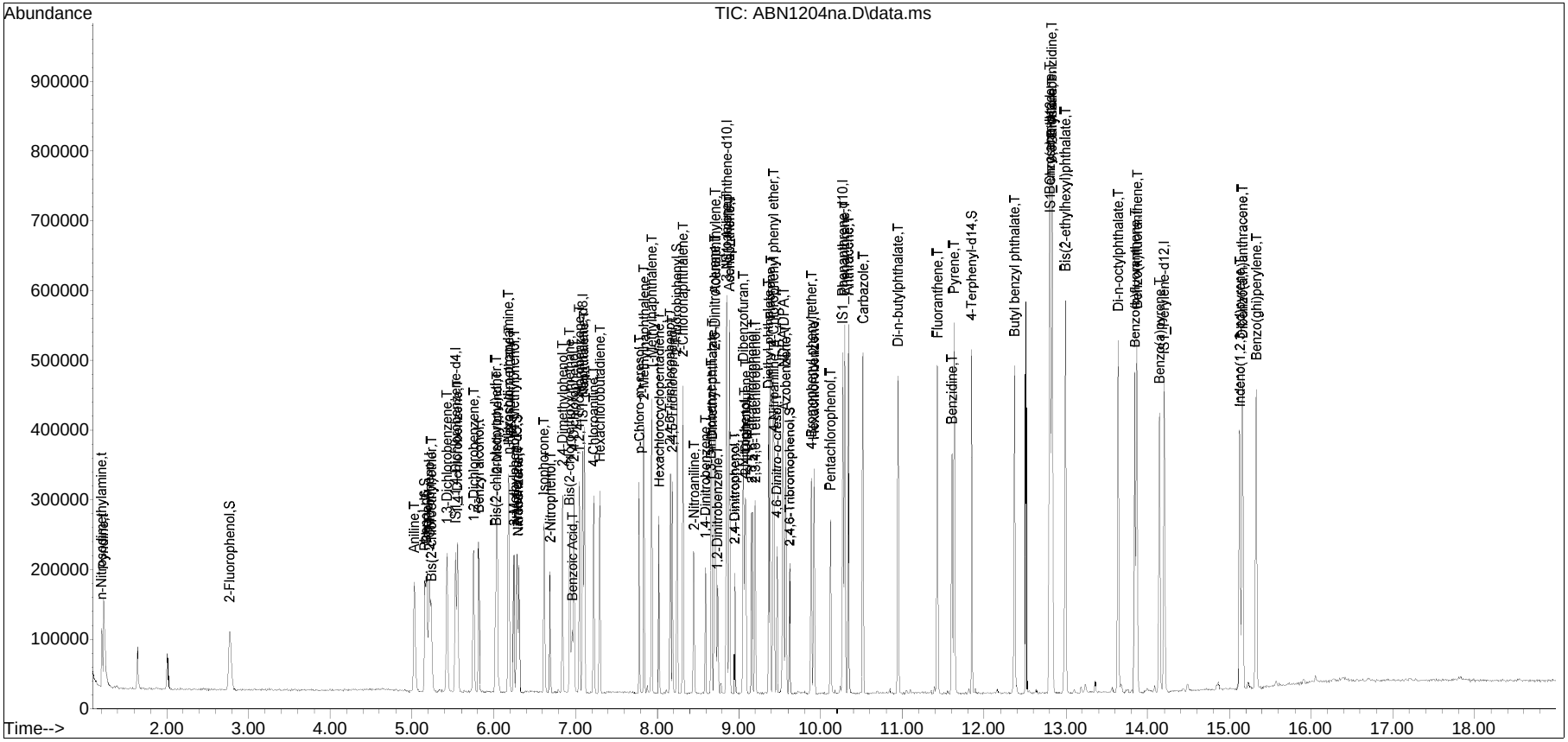
(#) = qualifier out of range (m) = manual integration (+) = signals summed

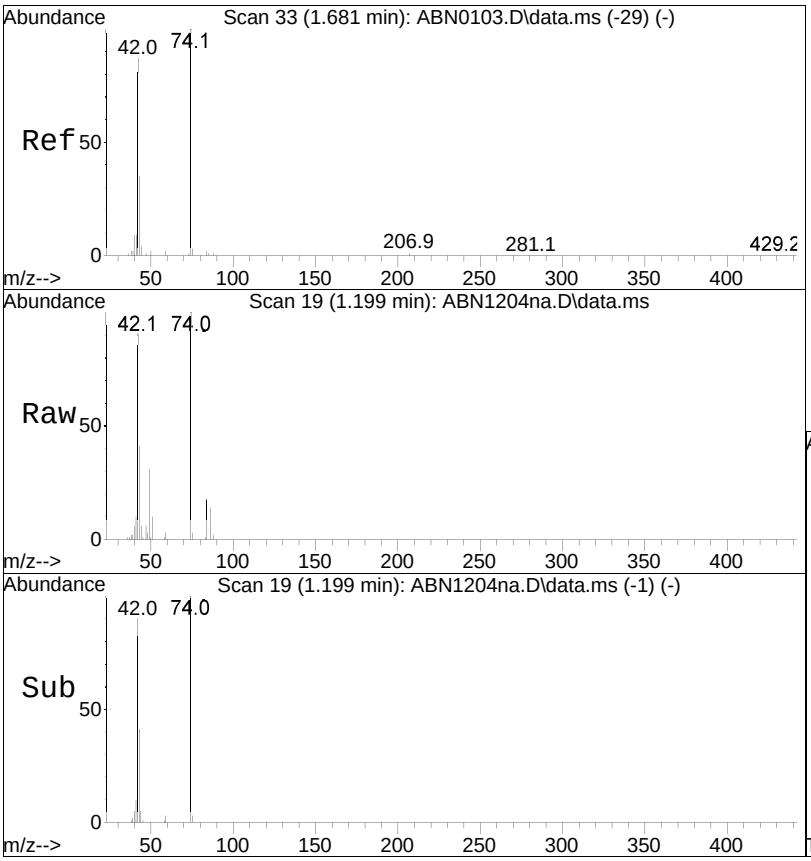
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : ABN1204na.D
Acq On : 4 Dec 2023 11:25 pm
Operator : SV106:sz
Sample : wg1859682-3,32,,ABN LVI CCV Lot # 10166
Misc : wg1859682,,ical20337
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 04 23:52:49 2023
Quant Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 23:52:34 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

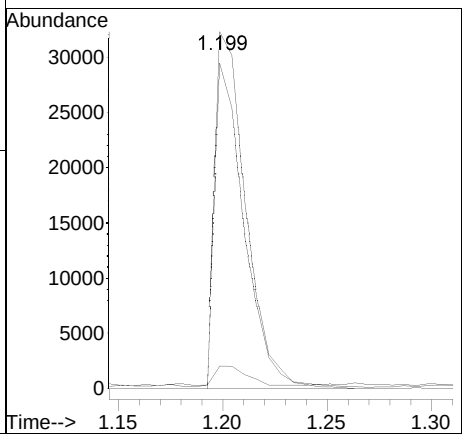


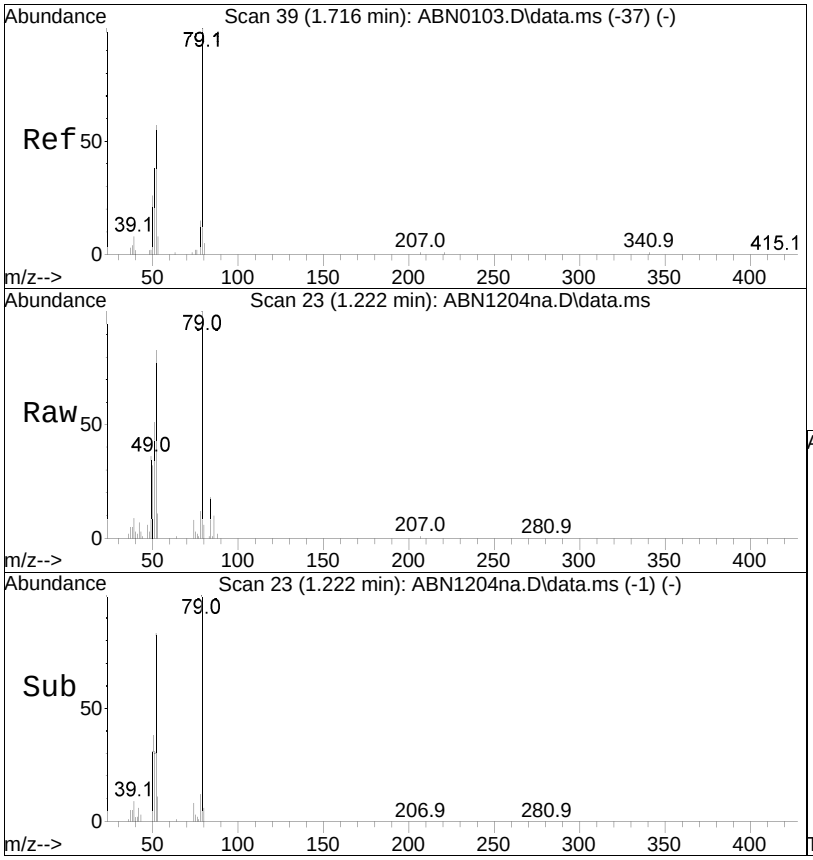


#2
n-Nitrosodimethylamine
Concen: 5.54 ug/ml
RT: 1.199 min Scan# 19
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 74 Resp: 33304

Ion	Ratio	Lower	Upper
74	100		
42	86.3	100.0	150.0#
44	6.2	6.7	10.1#

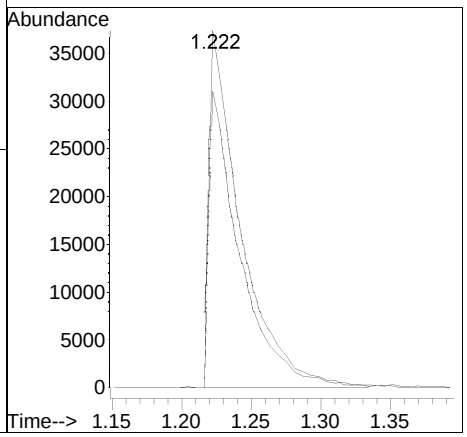


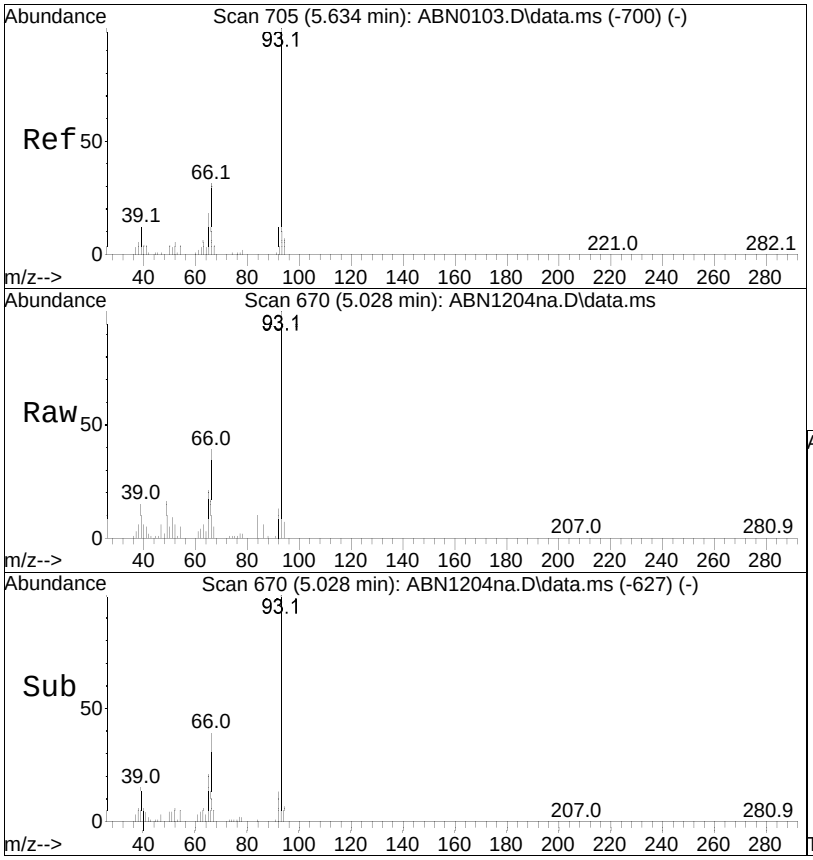


#3
Pyridine
Concen: 5.74 ug/ml
RT: 1.222 min Scan# 23
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 79 Resp: 58690

Ion	Ratio	Lower	Upper
79	100		
52	82.3	93.1	139.7#

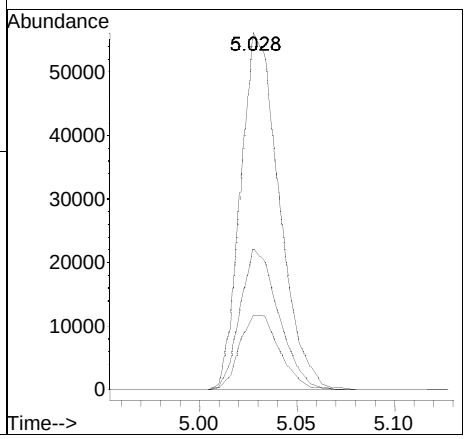


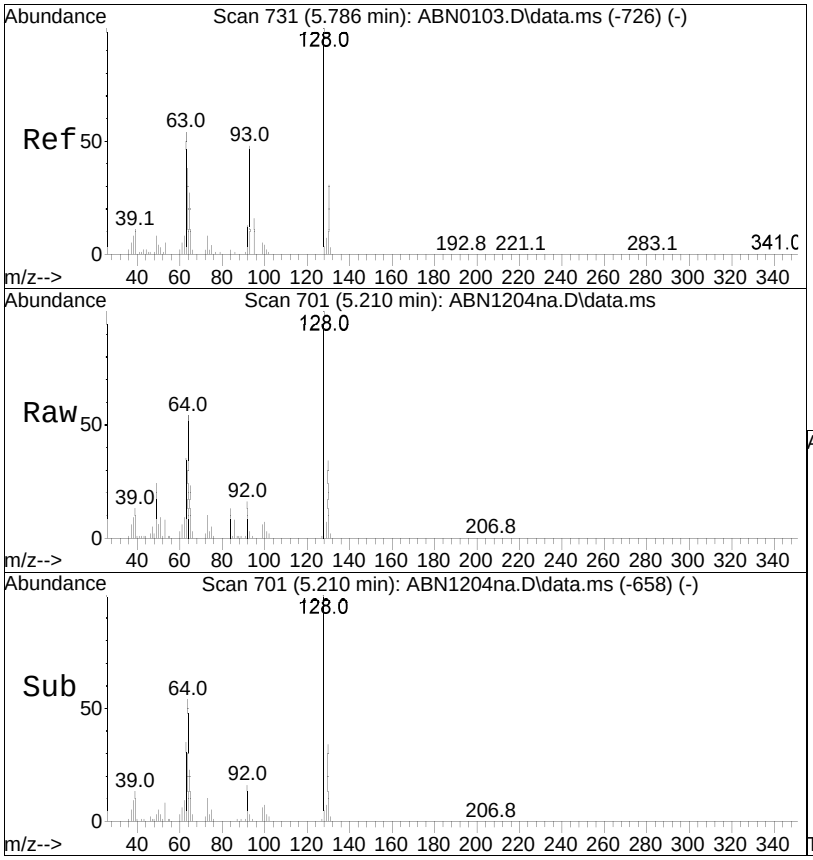


#5
Aniline
Concen: 4.58 ug/ml
RT: 5.028 min Scan# 670
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 93 Resp: 77003

Ion	Ratio	Lower	Upper
93	100		
66	39.7	32.6	49.0
65	21.8	17.6	26.4

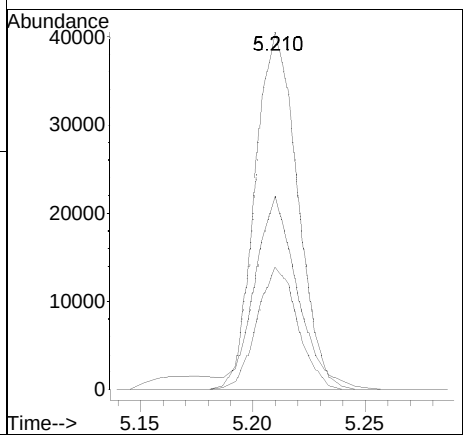


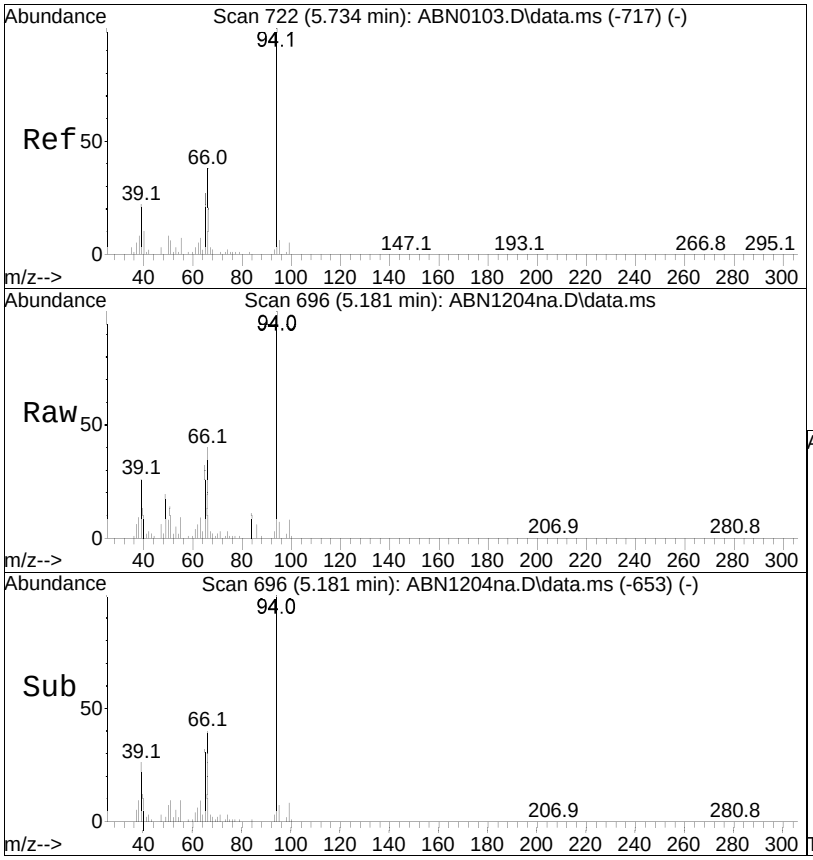


#6
2-Chlorophenol
Concen: 4.65 ug/ml
RT: 5.210 min Scan# 701
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:128 Resp: 52623

Ion	Ratio	Lower	Upper
128	100		
64	54.4	45.1	67.7
130	33.2	26.2	39.4

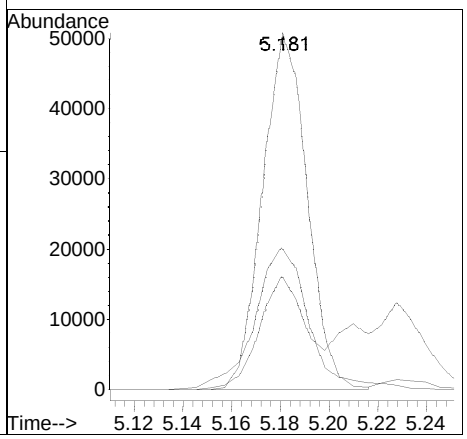


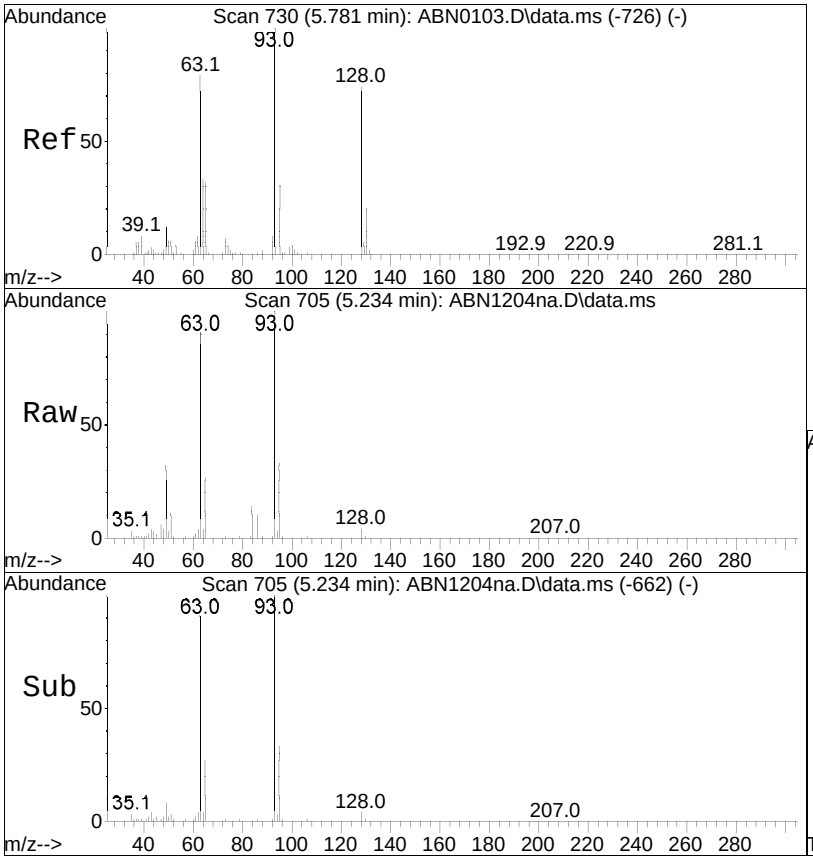


#8
Phenol
Concen: 4.75 ug/ml
RT: 5.181 min Scan# 696
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 94 Resp: 64167

Ion	Ratio	Lower	Upper
94	100		
65	34.6	26.0	39.0
66	48.6	33.8	50.8

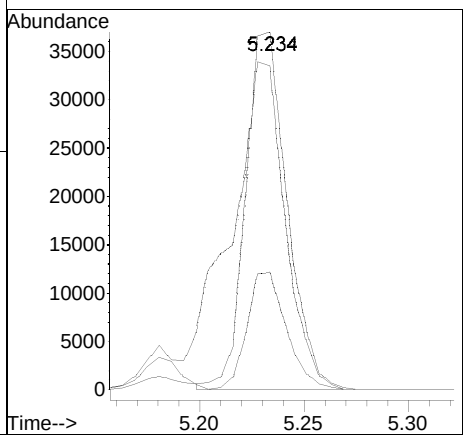


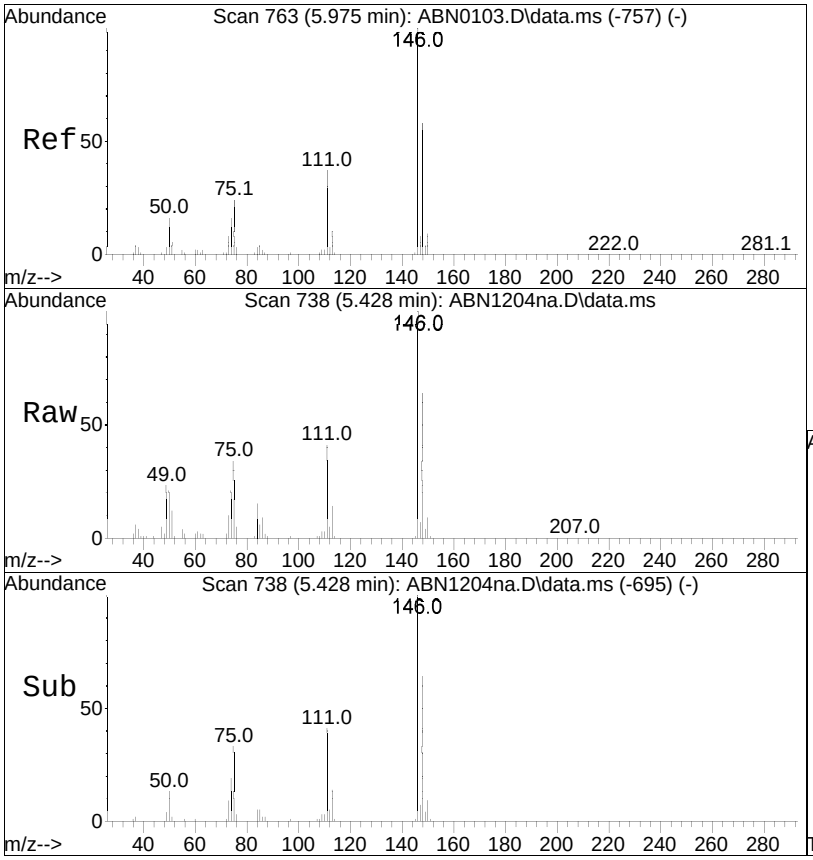


#9
Bis(2-chloroethyl)ether
Concen: 4.69 ug/ml
RT: 5.234 min Scan# 705
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 93 Resp: 50928

Ion	Ratio	Lower	Upper
93	100		
63	120.1	74.6	111.8#
95	31.3	25.9	38.9

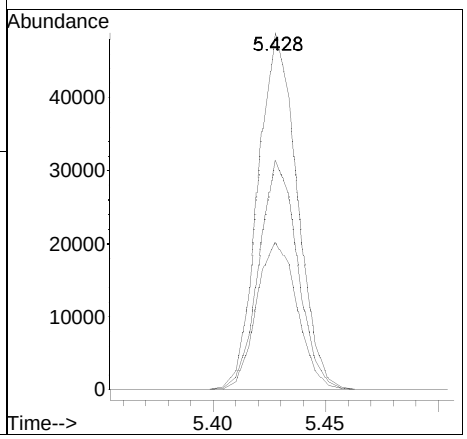


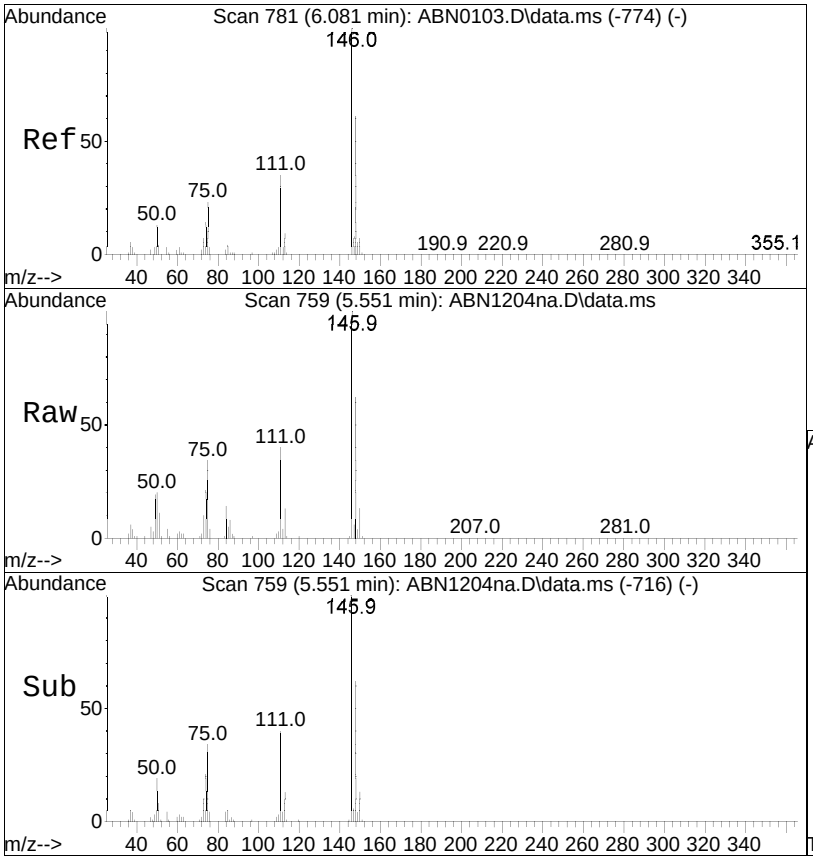


#10
1,3-Dichlorobenzene
Concen: 4.55 ug/ml
RT: 5.428 min Scan# 738
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:146 Resp: 59037

Ion	Ratio	Lower	Upper
146	100		
111	43.2	34.3	51.5
148	63.3	50.8	76.2

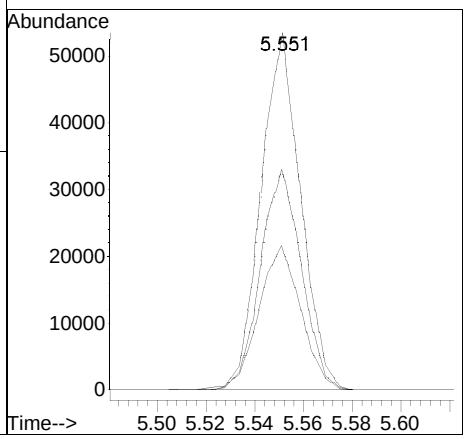


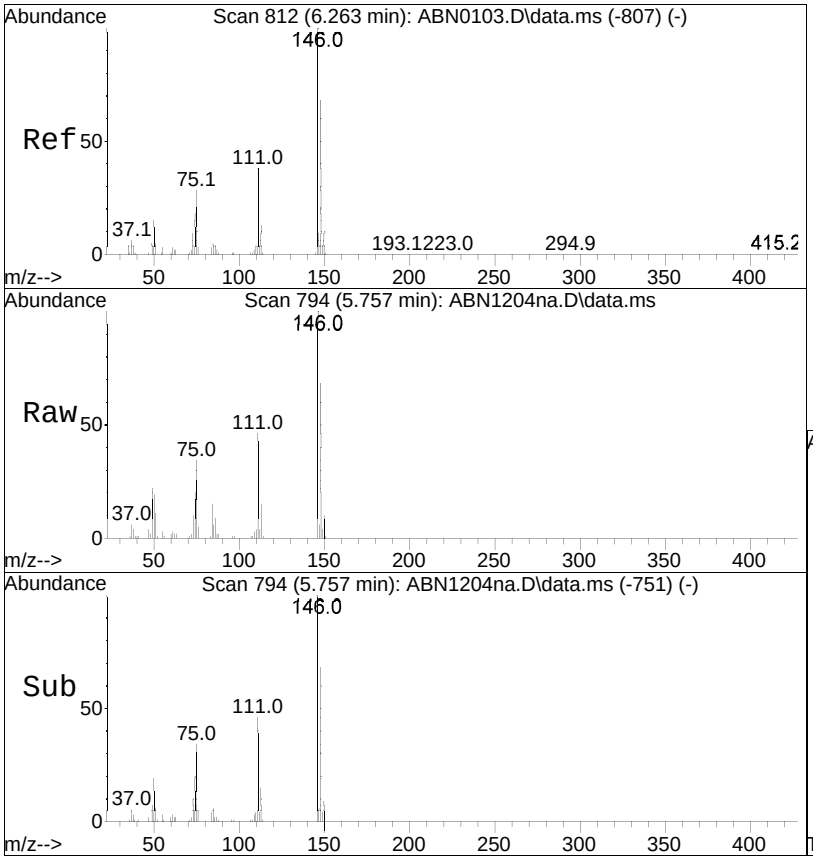


#11
1,4-Dichlorobenzene
Concen: 4.48 ug/ml
RT: 5.551 min Scan# 759
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:146 Resp: 59881

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.7	76.1
111	43.6	33.4	50.0

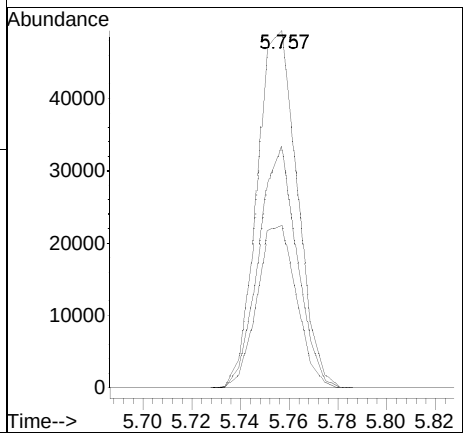


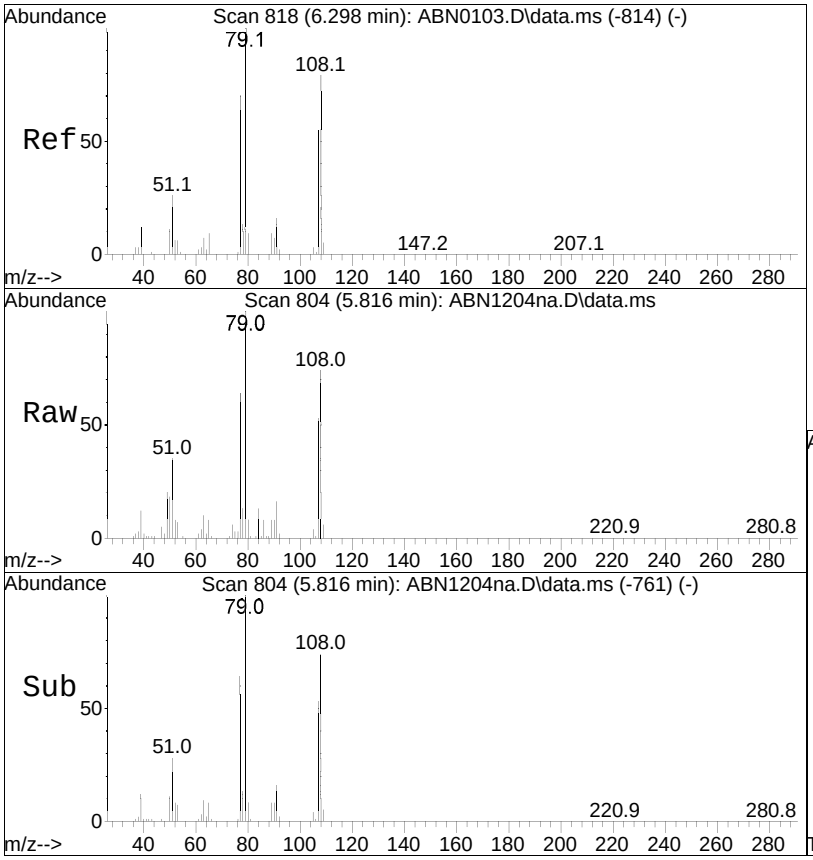


#12
1,2-Dichlorobenzene
Concen: 4.45 ug/ml
RT: 5.757 min Scan# 794
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:146 Resp: 56552

Ion	Ratio	Lower	Upper
146	100		
111	45.0	34.6	52.0
148	64.5	50.2	75.4

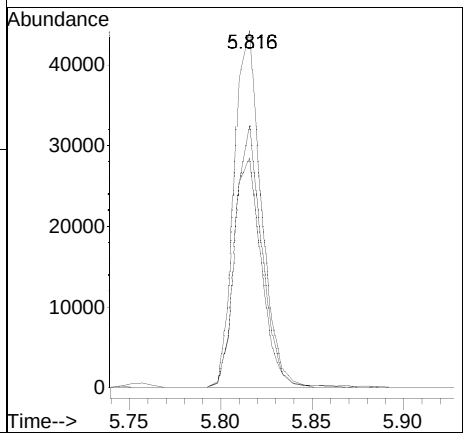


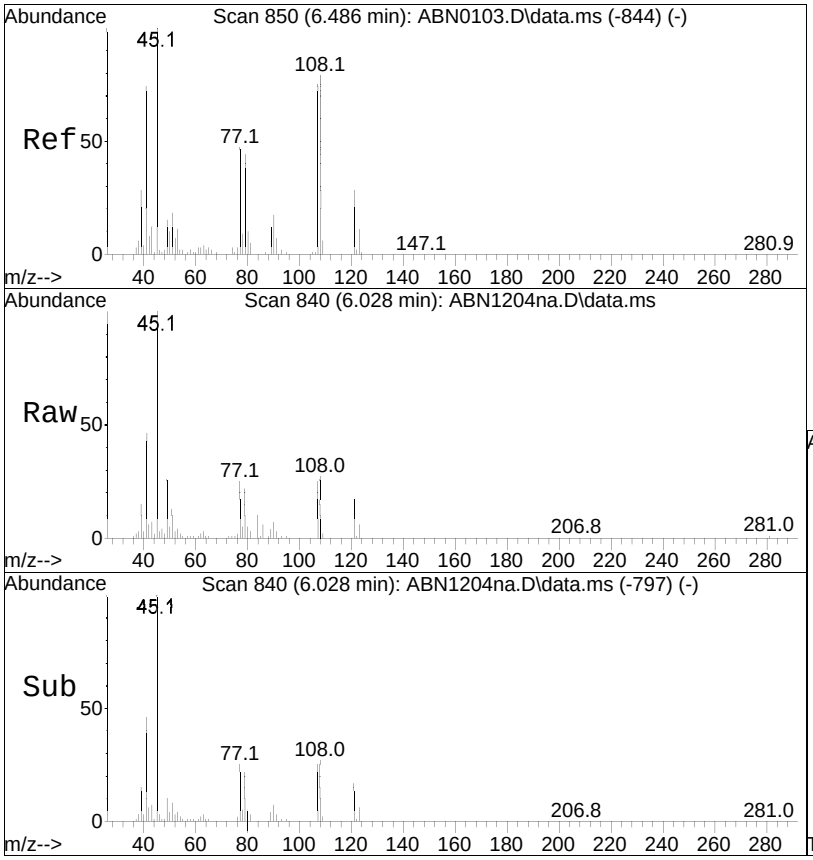


#13
Benzyl alcohol
Concen: 4.81 ug/ml
RT: 5.816 min Scan# 804
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 79 Resp: 45895

Ion	Ratio	Lower	Upper
79	100		
77	65.2	54.9	82.3
108	71.4	63.1	94.7

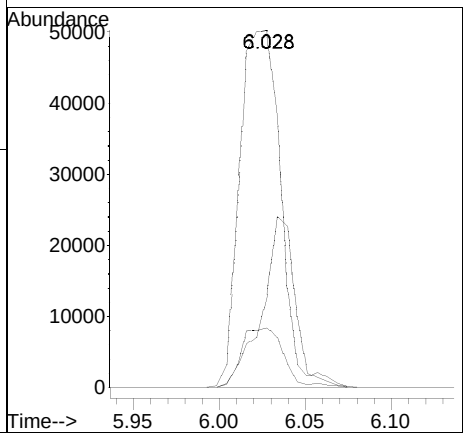


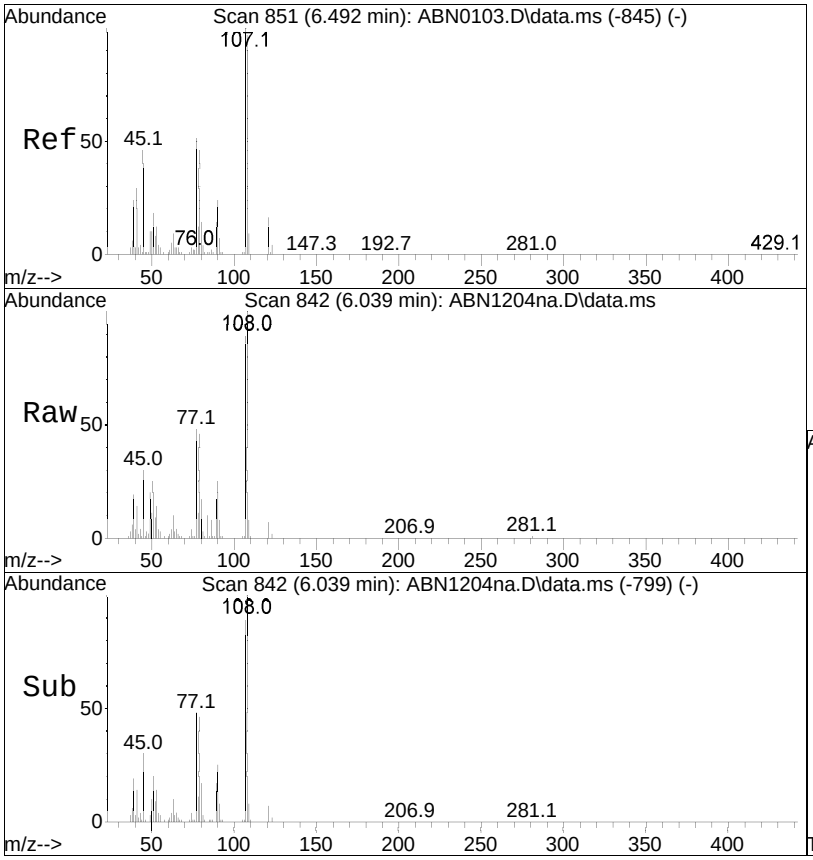


#14
Bis(2-chloroisopropyl)ether
Concen: 5.17 ug/ml
RT: 6.028 min Scan# 840
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 45 Resp: 82618

Ion	Ratio	Lower	Upper
45	100		
121	17.2	9.8	14.6#
77	38.6	6.1	9.1#

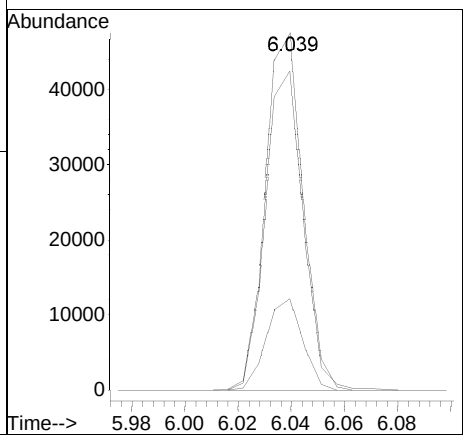


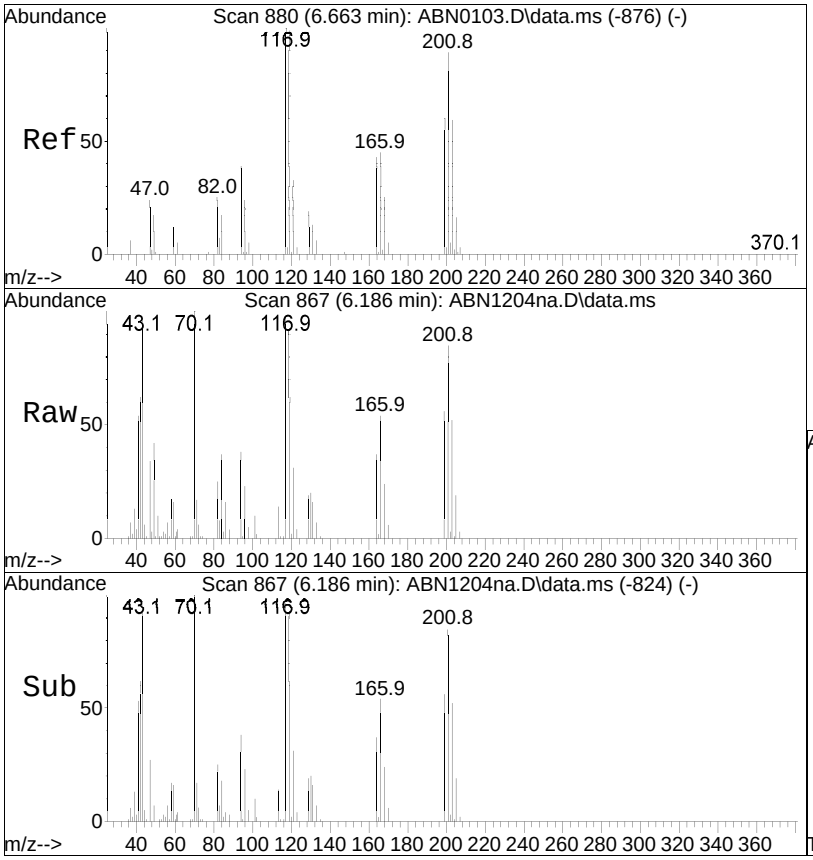


#15
2-Methylphenol
Concen: 4.61 ug/ml
RT: 6.039 min Scan# 842
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:108 Resp: 46624

Ion	Ratio	Lower	Upper
108	100		
107	89.9	70.7	106.1
90	24.7	18.7	28.1

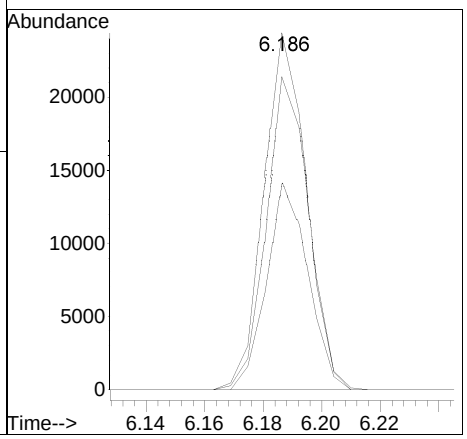


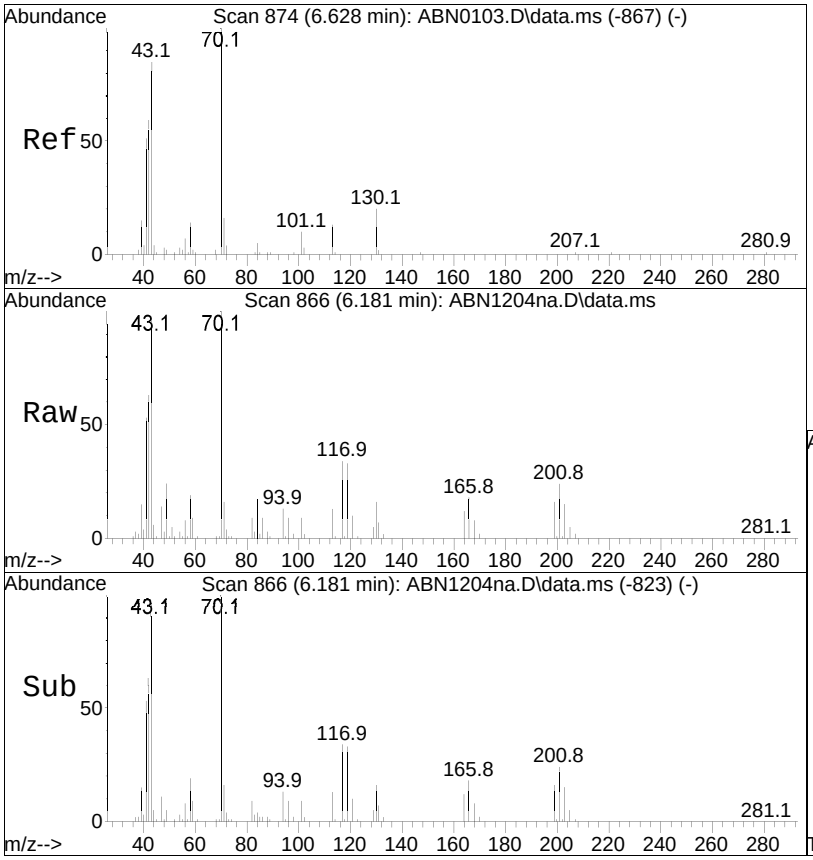


#16
Hexachloroethane
Concen: 4.71 ug/ml
RT: 6.186 min Scan# 867
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:117 Resp: 24507

Ion	Ratio	Lower	Upper
117	100		
201	87.8	58.6	87.8
199	56.6	36.9	55.3#

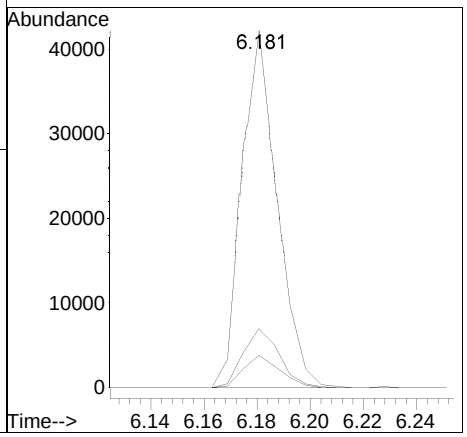


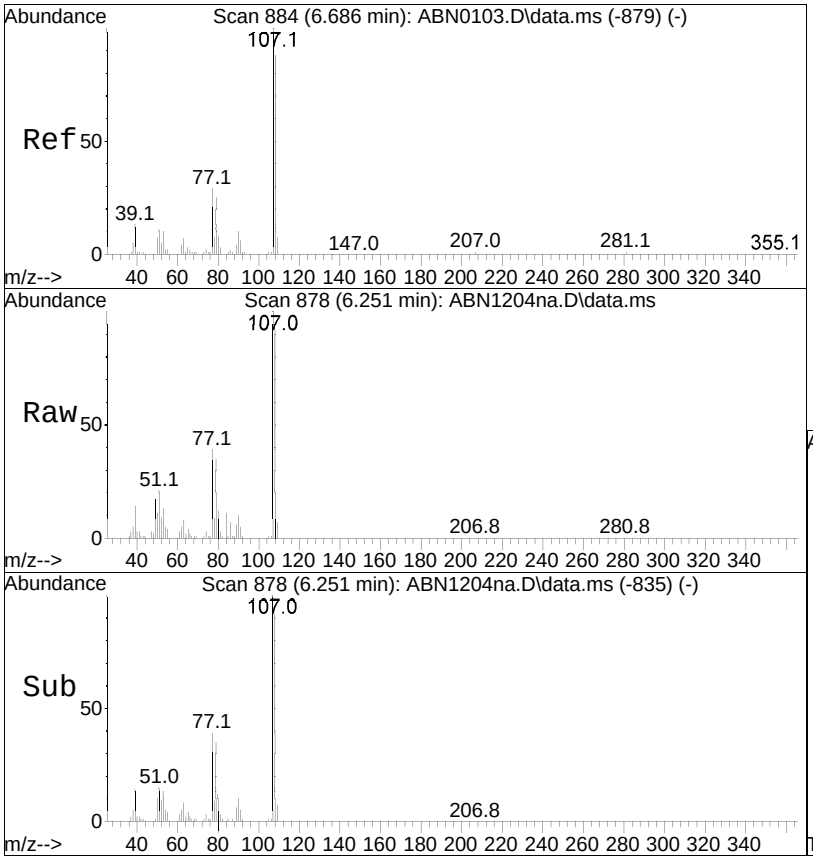


#17
n-Nitrosodi-n-propylamine
Concen: 4.74 ug/ml
RT: 6.181 min Scan# 866
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 70 Resp: 38840

Ion	Ratio	Lower	Upper
70	100		
130	17.0	18.2	27.4#
101	9.3	7.8	11.8

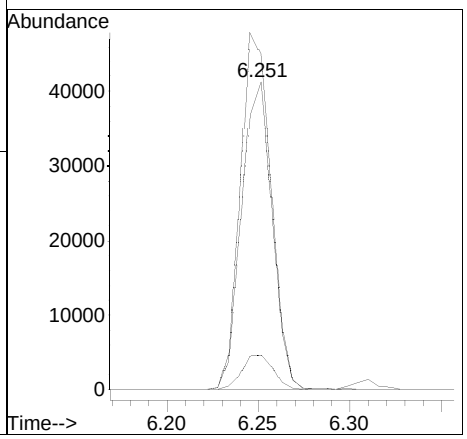


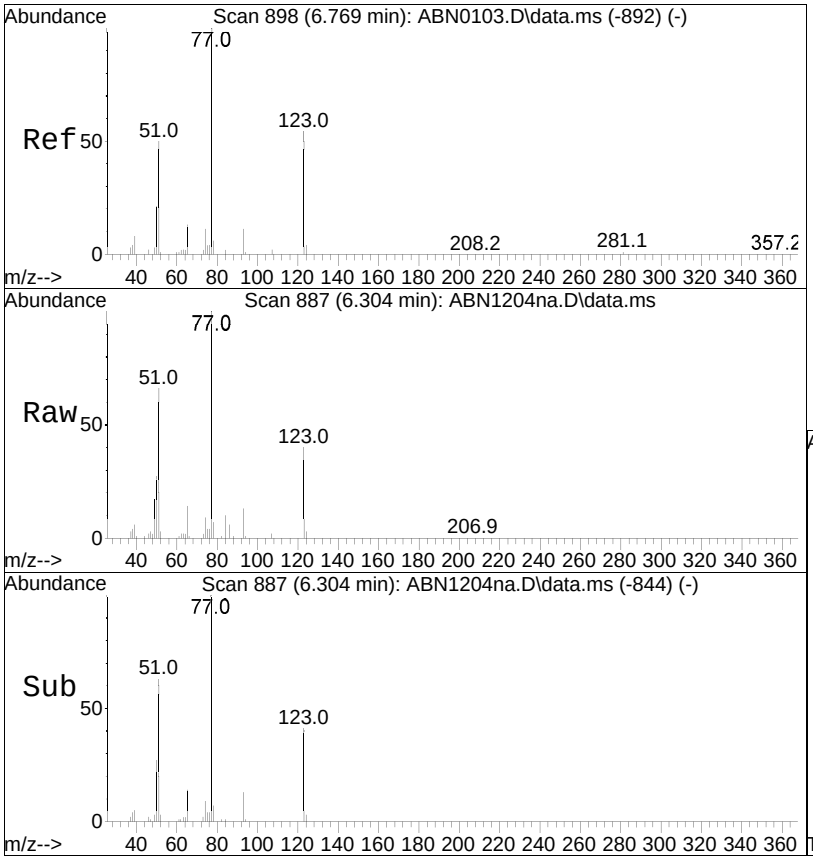


#18
3-Methylphenol/4-Methylphenol
Concen: 4.55 ug/ml
RT: 6.251 min Scan# 878
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:108 Resp: 48196

Ion	Ratio	Lower	Upper
108	100		
107	116.3	88.6	132.8
90	11.4	8.8	13.2

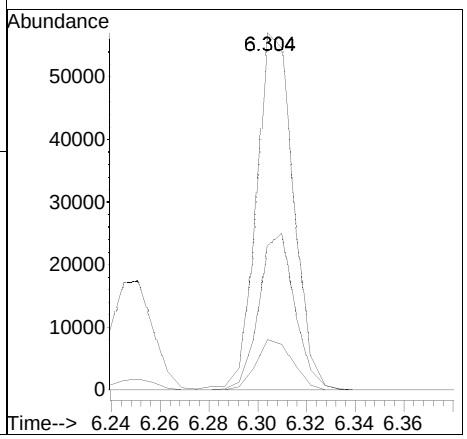


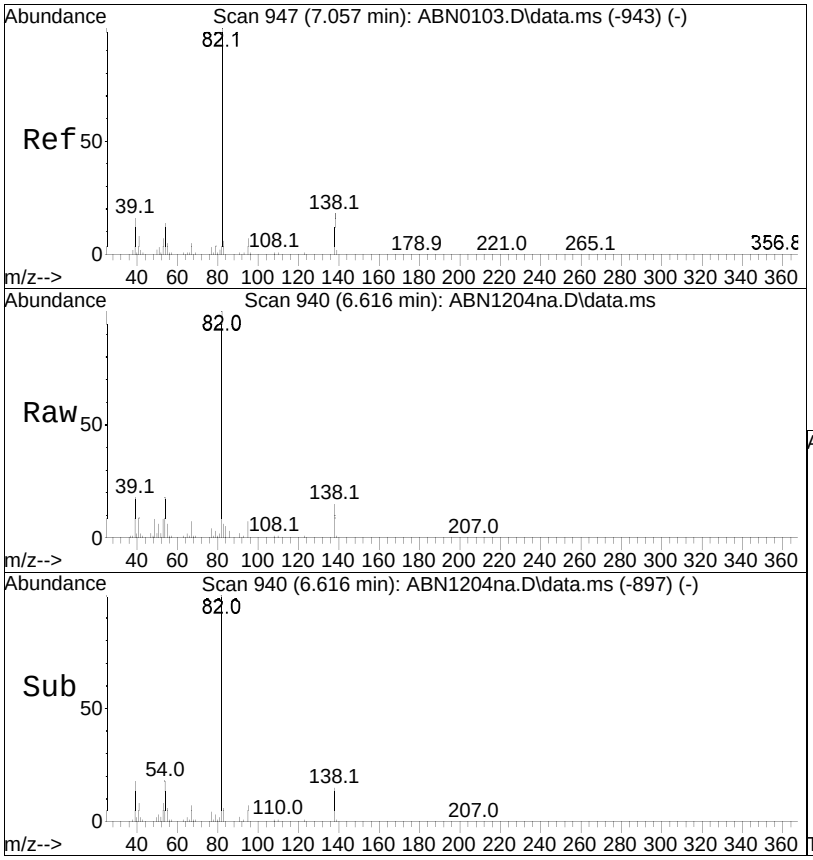


#20
Nitrobenzene
Concen: 5.20 ug/ml
RT: 6.304 min Scan# 887
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 77 Resp: 59784

Ion	Ratio	Lower	Upper
77	100		
123	42.9	36.3	54.5
65	13.9	11.6	17.4

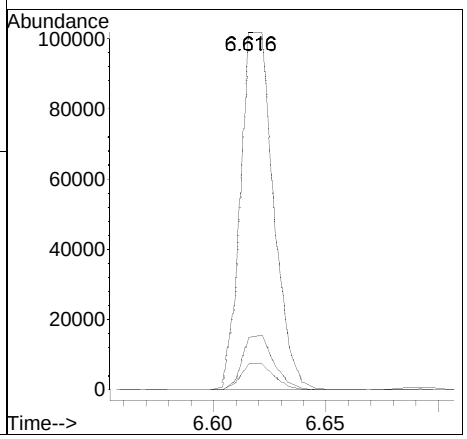


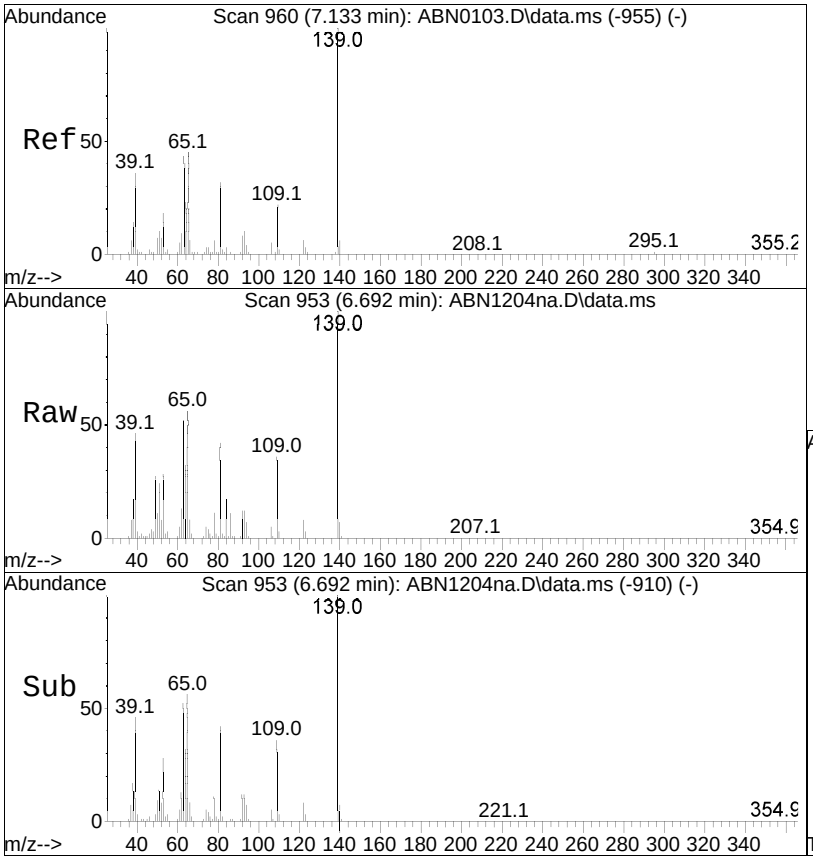


#21
Isophorone
Concen: 4.67 ug/ml
RT: 6.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 82 Resp: 102700

Ion	Ratio	Lower	Upper
82	100		
138	14.5	14.7	22.1#
95	7.5	5.2	7.8

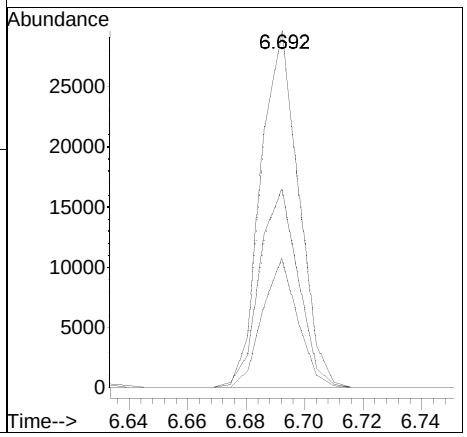


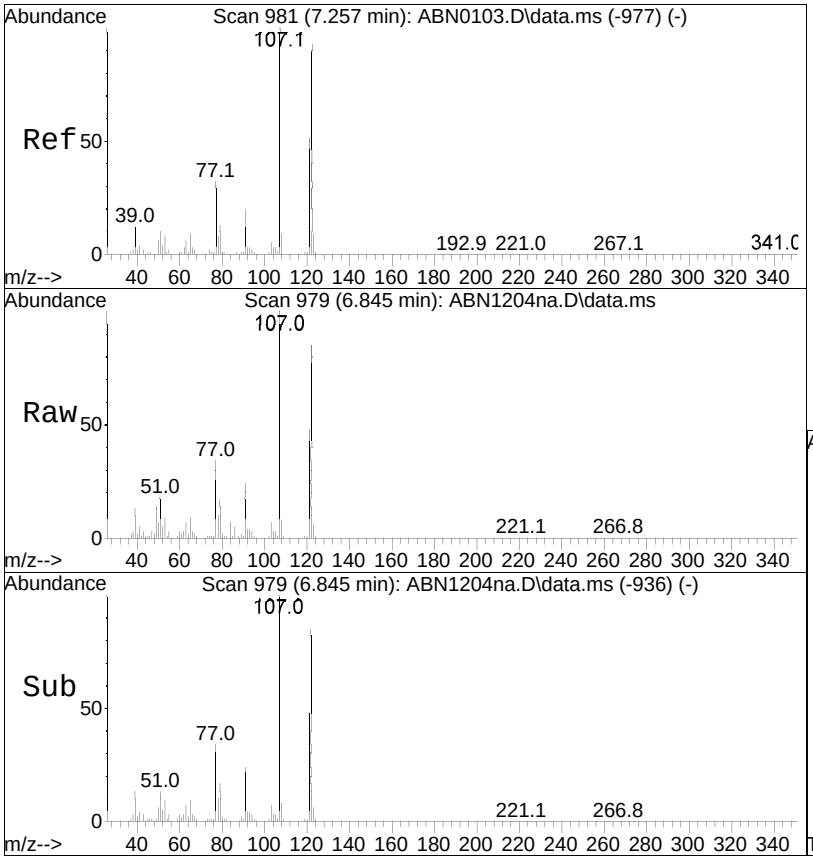


#22
2-Nitrophenol
Concen: 5.79 ug/ml
RT: 6.692 min Scan# 953
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:139 Resp: 26643

Ion	Ratio	Lower	Upper
139	100		
109	33.9	19.4	29.0#
65	56.9	46.1	69.1

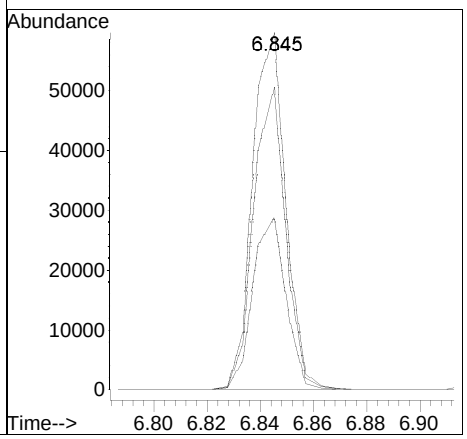


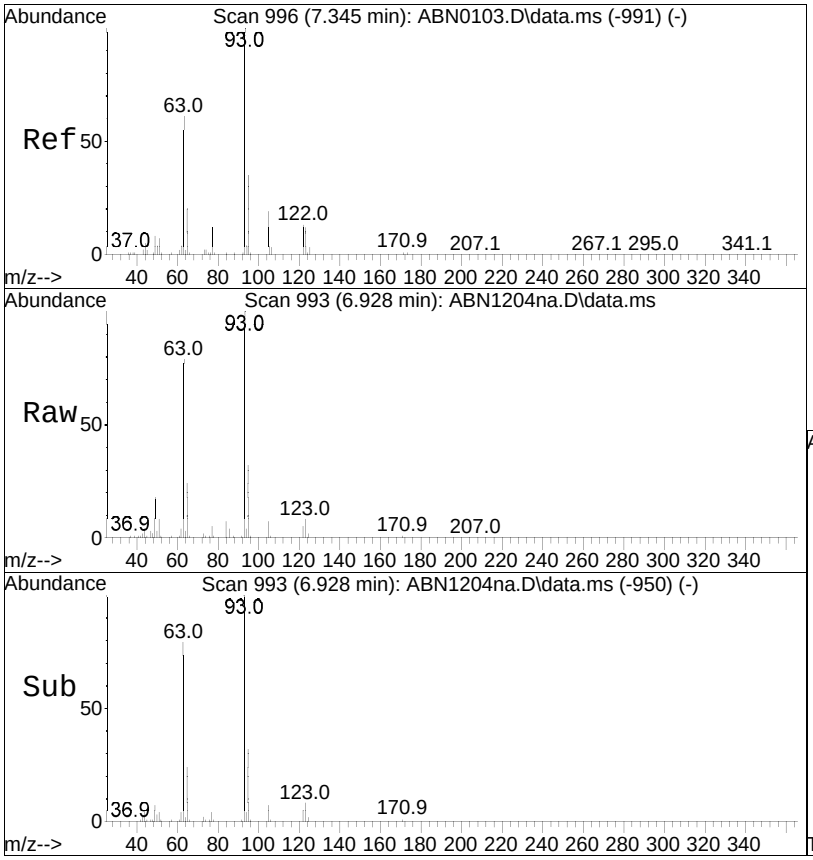


#23
2,4-Dimethylphenol
Concen: 4.50 ug/ml
RT: 6.845 min Scan# 979
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:107 Resp: 51253

Ion	Ratio	Lower	Upper
107	100		
121	48.7	40.0	60.0
122	81.9	70.2	105.4

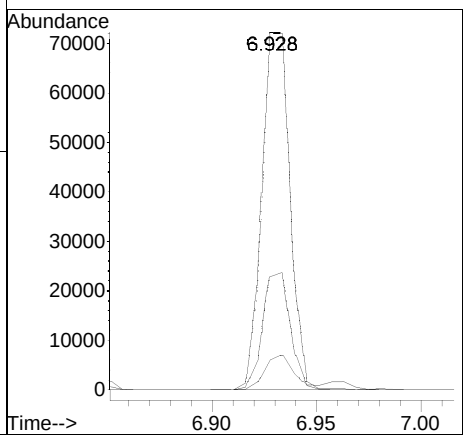


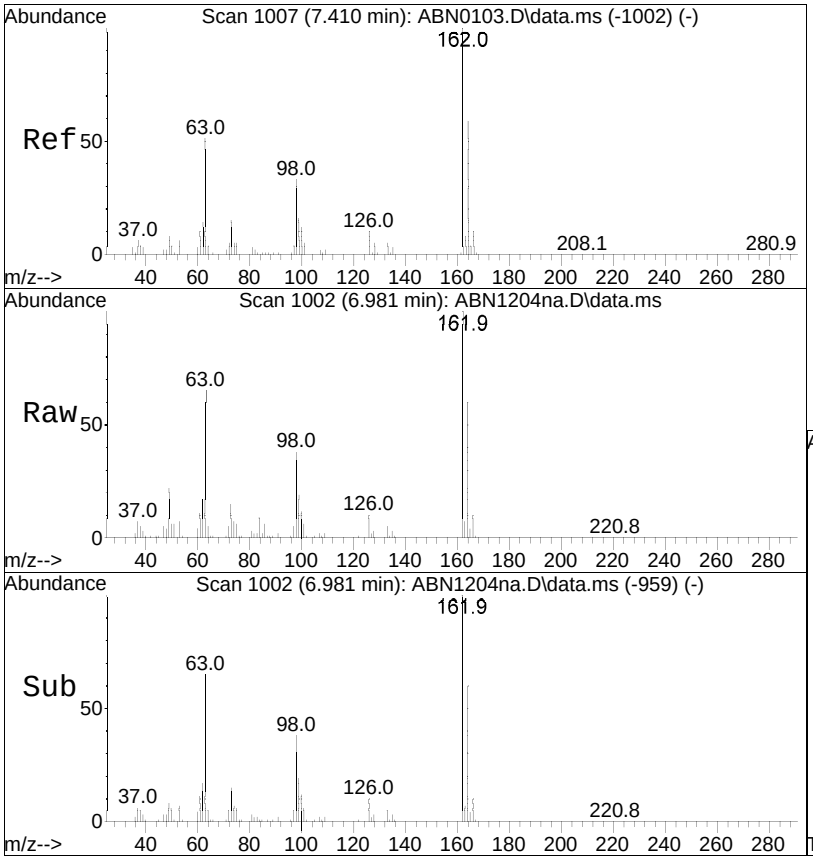


#24
Bis(2-chloroethoxy)methane
Concen: 4.85 ug/ml
RT: 6.928 min Scan# 993
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 93 Resp: 66946

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.8	38.8
123	10.3	10.1	15.1

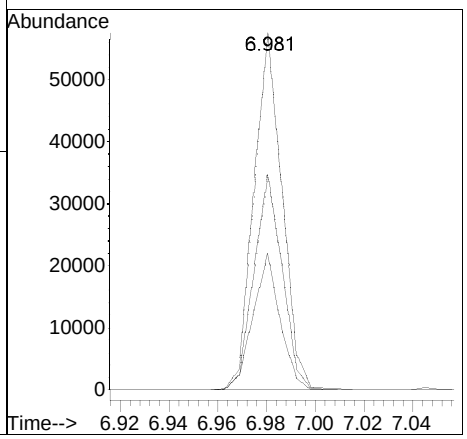


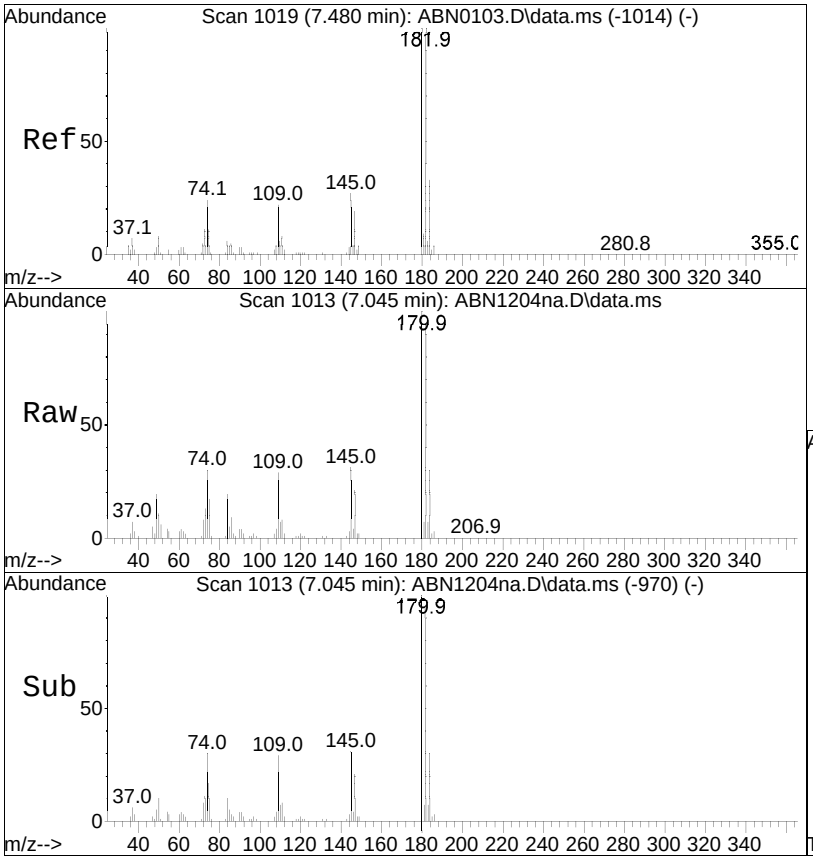


#25
2,4-Dichlorophenol
Concen: 4.81 ug/ml
RT: 6.981 min Scan# 1002
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:162 Resp: 46007

Ion	Ratio	Lower	Upper
162	100		
164	60.5	51.0	76.4
98	36.9	32.2	48.2

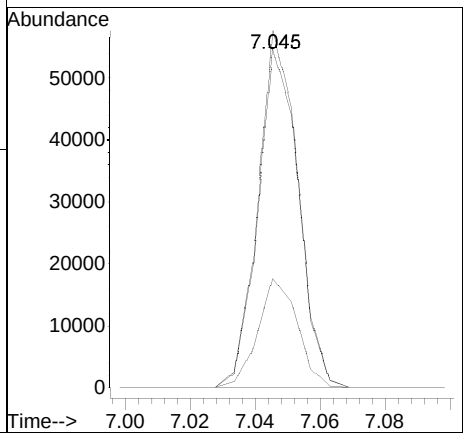


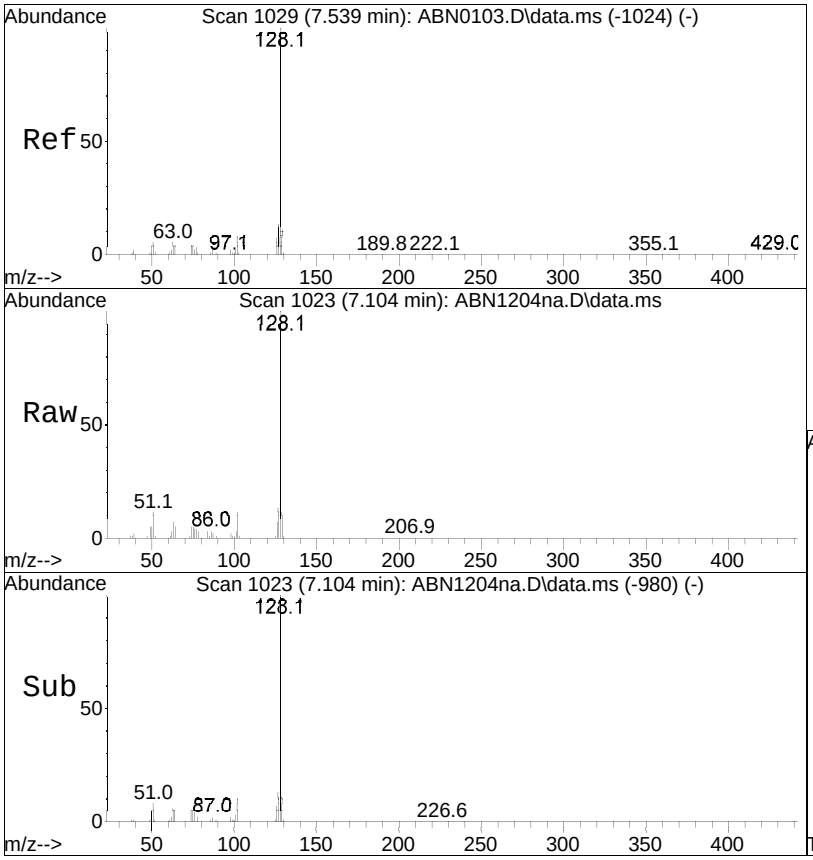


#26
1,2,4-Trichlorobenzene
Concen: 4.48 ug/ml
RT: 7.045 min Scan# 1013
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:180 Resp: 49123

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.0	114.0
145	30.3	25.7	38.5

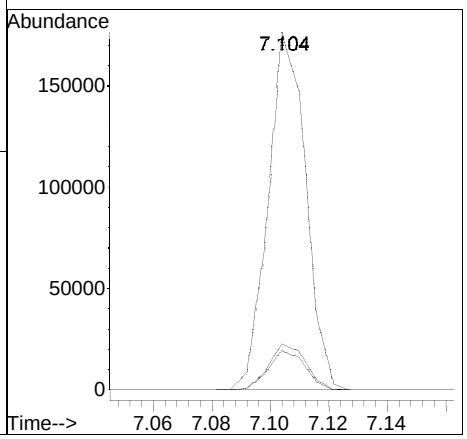


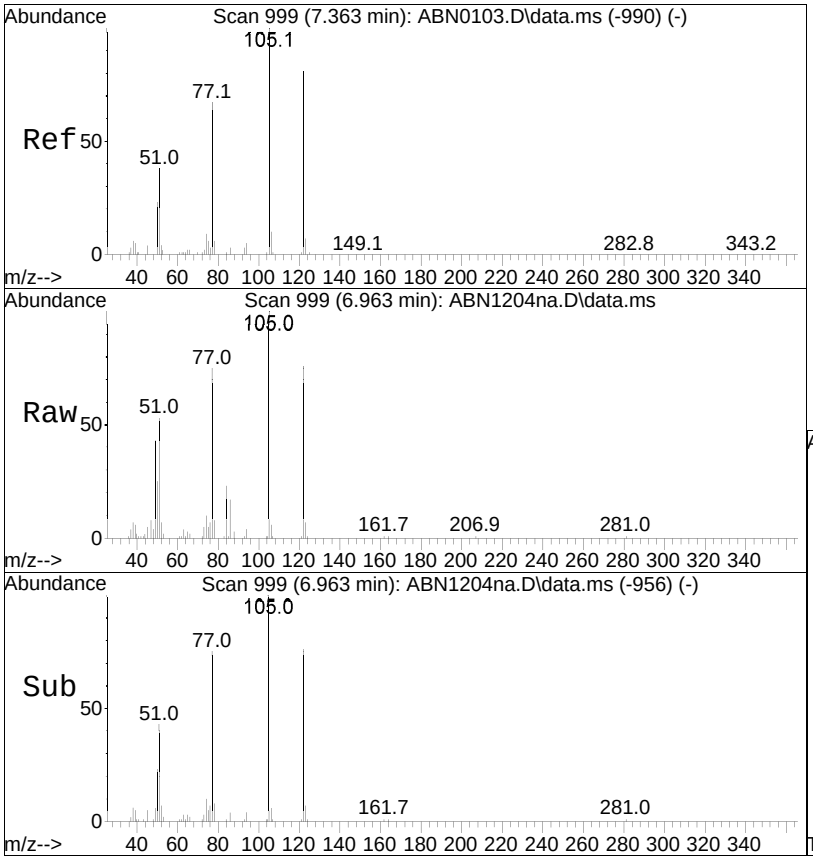


#35
Naphthalene
Concen: 4.51 ug/ml
RT: 7.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:128 Resp: 155670

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	13.0	10.3	15.5

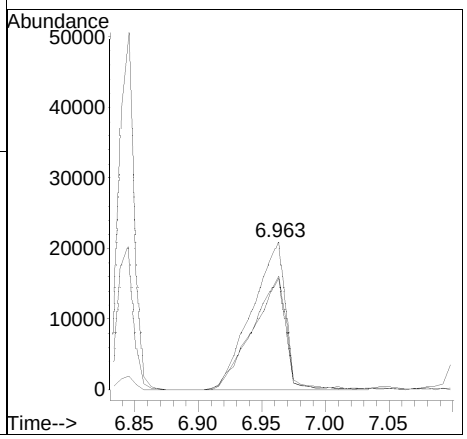


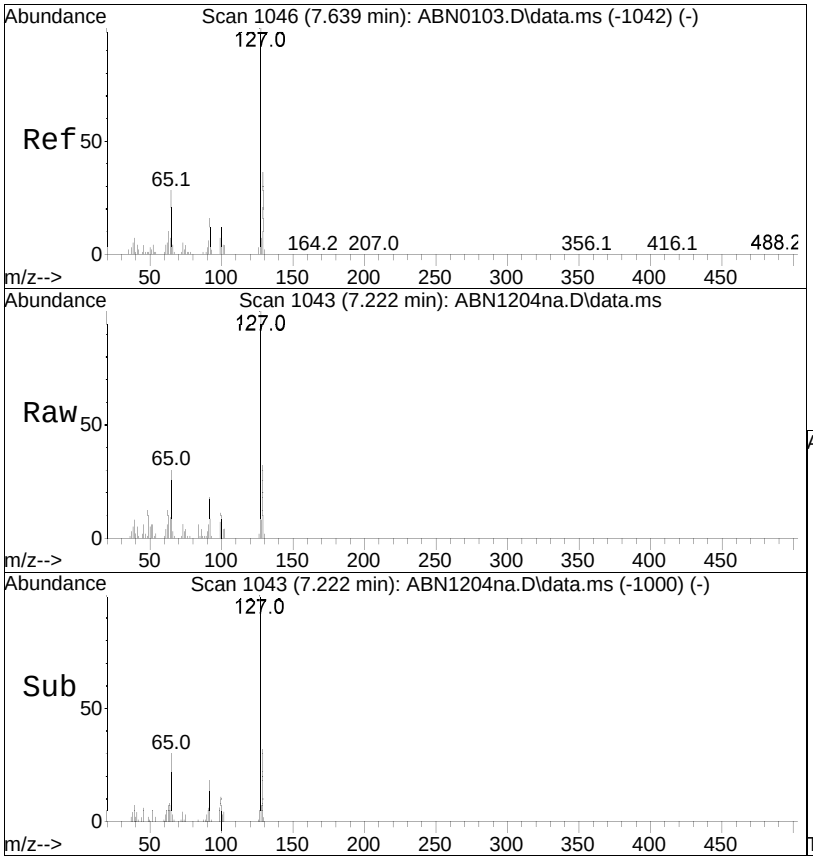


#36
Benzoic Acid
Concen: 5.77 ug/ml
RT: 6.963 min Scan# 999
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:105 Resp: 39183

Ion	Ratio	Lower	Upper
105	100		
122	76.8	59.9	89.9
77	73.2	60.1	90.1

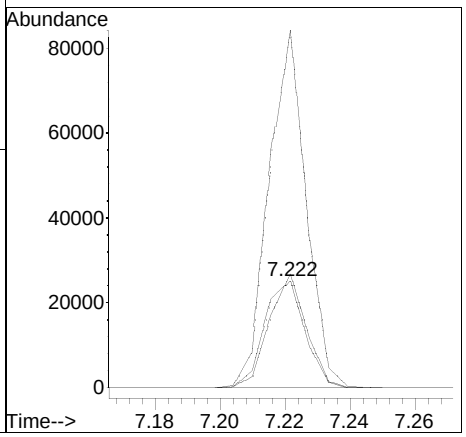


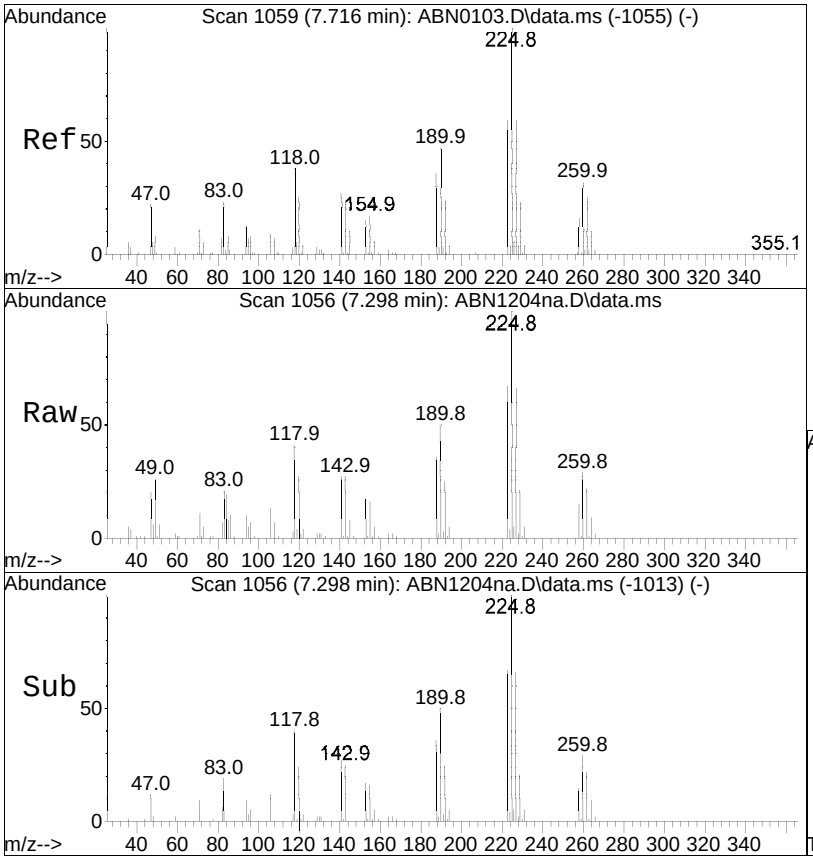


#37
4-Chloroaniline
Concen: 4.79 ug/ml
RT: 7.222 min Scan# 1043
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 65 Resp: 21660

Ion	Ratio	Lower	Upper
65	100		
127	306.4	237.6	356.4
129	98.1	76.3	114.5

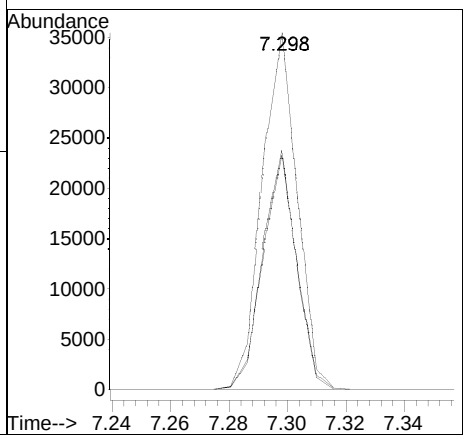


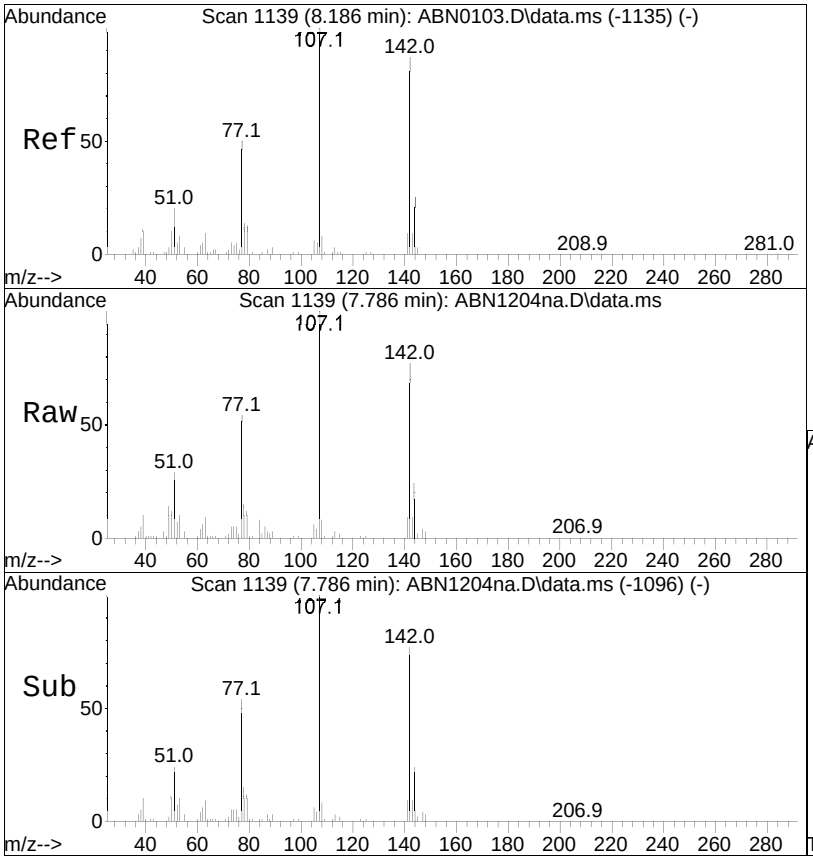


#38
Hexachlorobutadiene
Concen: 4.19 ug/ml
RT: 7.298 min Scan# 1056
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:225 Resp: 29536

Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.3	75.5
227	63.8	52.2	78.2

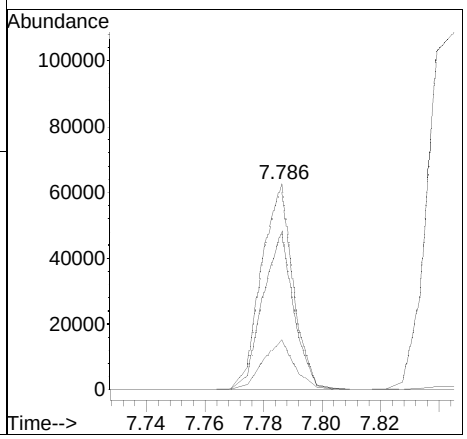


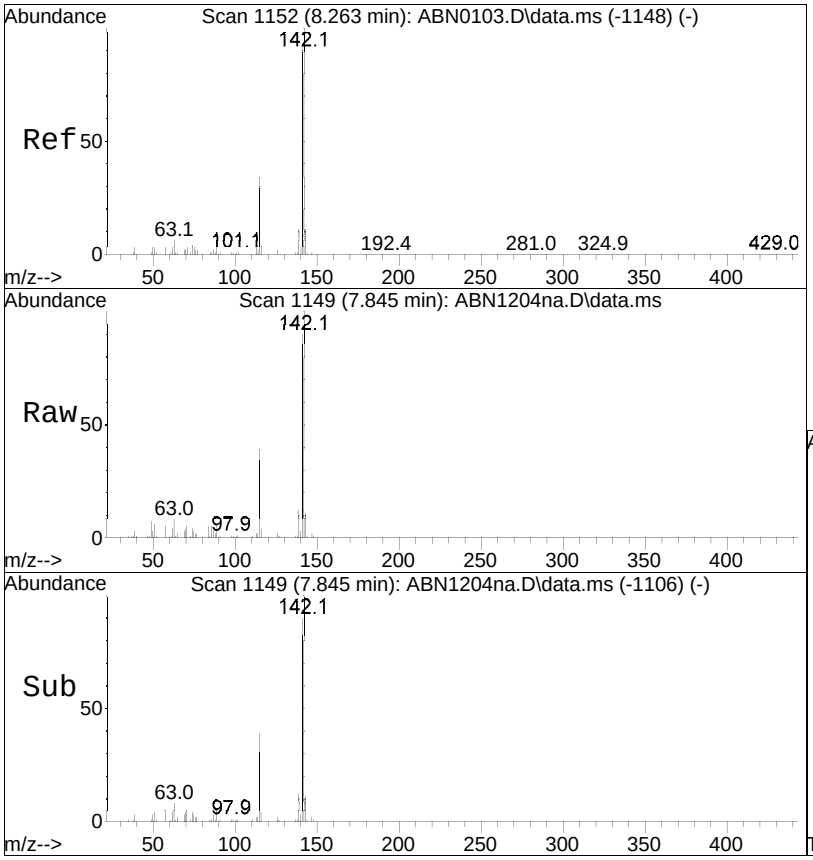


#39
p-Chloro-m-cresol
Concen: 4.68 ug/ml
RT: 7.786 min Scan# 1139
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:107 Resp: 46745

Ion	Ratio	Lower	Upper
107	100		
144	23.9	20.9	31.3
142	75.1	66.1	99.1

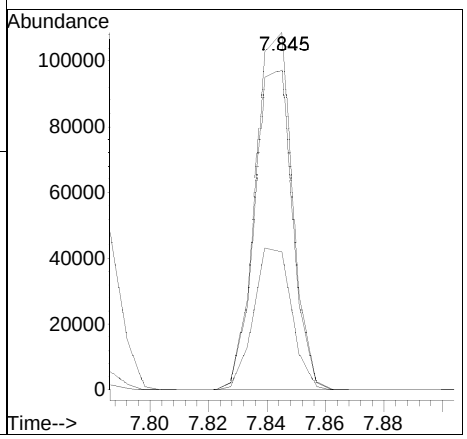


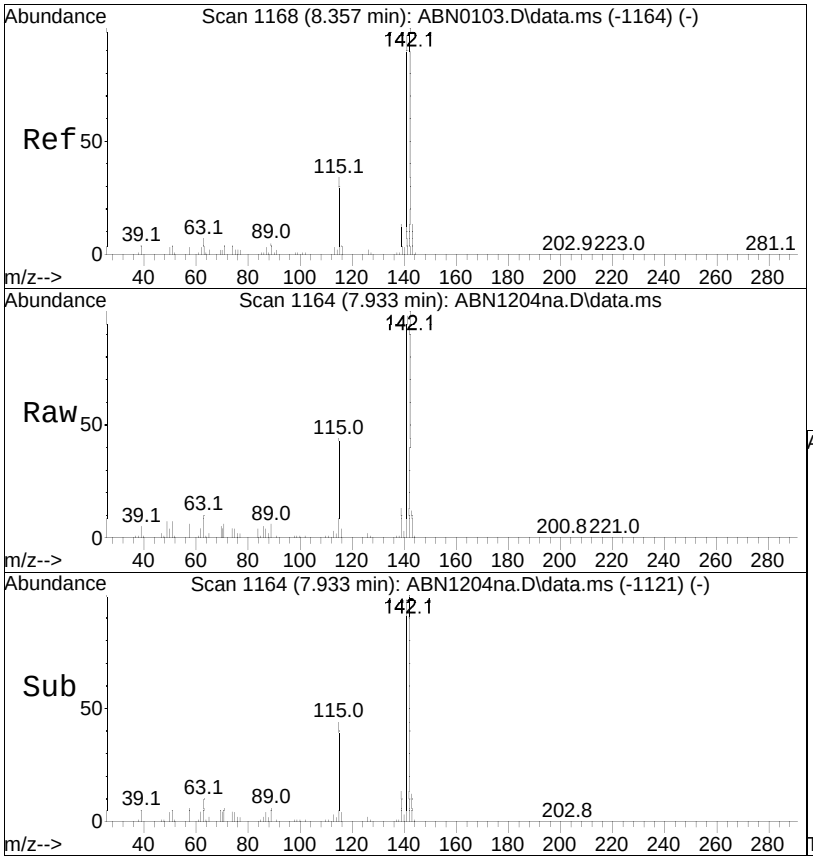


#40
2-Methylnaphthalene
Concen: 4.37 ug/ml
RT: 7.845 min Scan# 1149
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:142 Resp: 96065

Ion	Ratio	Lower	Upper
142	100		
141	91.0	69.6	104.4
115	40.9	26.6	40.0#

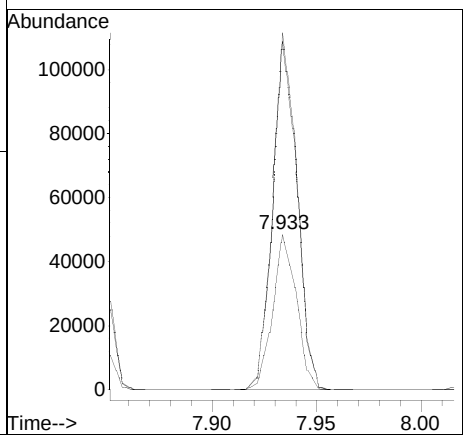


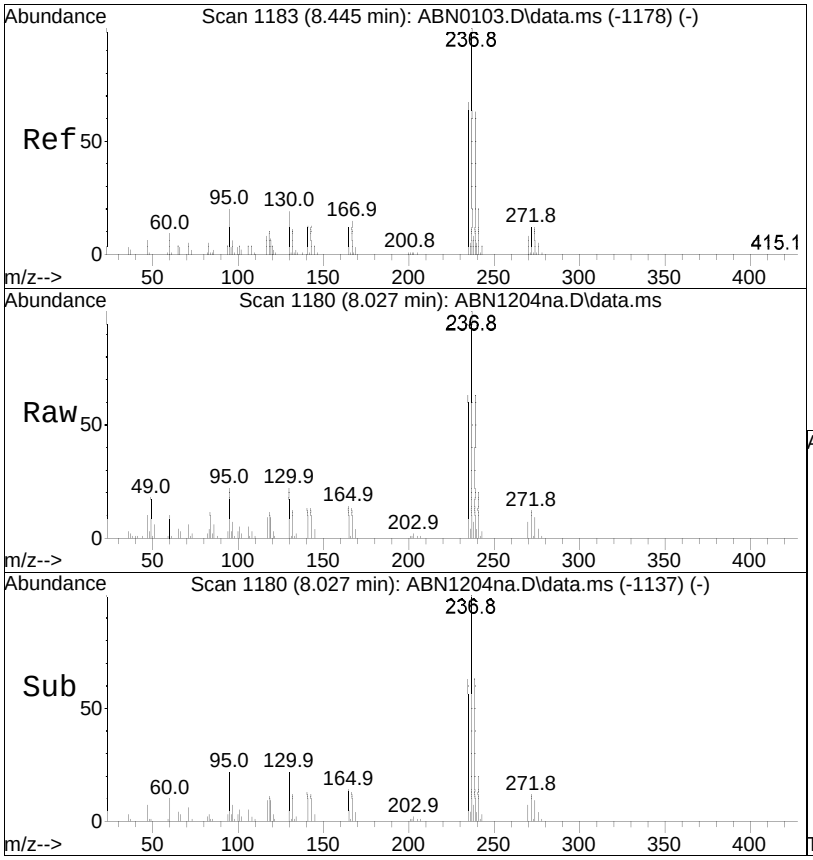


#41
1-Methylnaphthalene
Concen: 4.67 ug/ml
RT: 7.933 min Scan# 1164
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:115 Resp: 38529

Ion	Ratio	Lower	Upper
115	100		
141	226.8	207.8	311.6
142	233.6	226.8	340.2

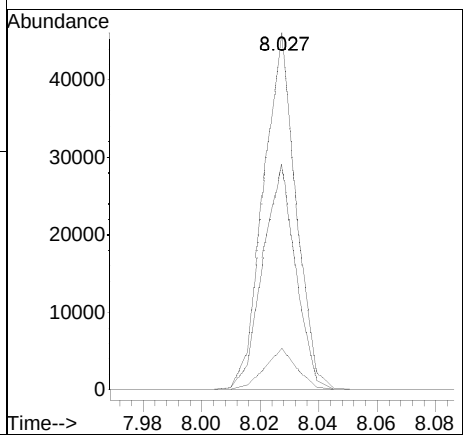


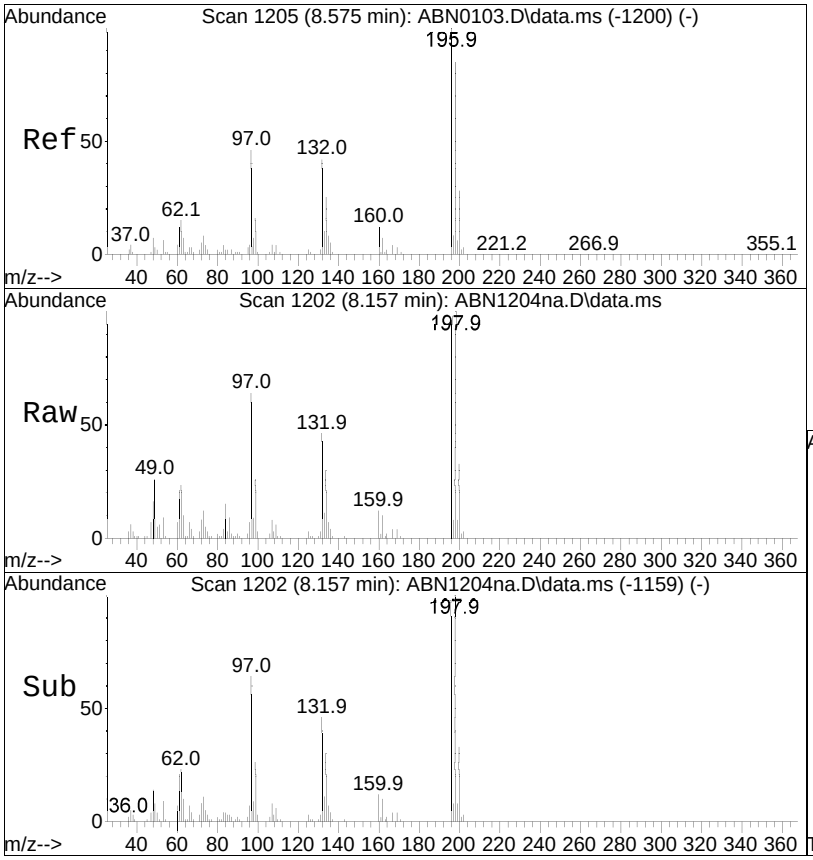


#42
Hexachlorocyclopentadiene
Concen: 4.72 ug/ml
RT: 8.027 min Scan# 1180
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:237 Resp: 35468

Ion	Ratio	Lower	Upper
237	100		
235	63.9	49.7	74.5
272	11.4	9.8	14.6

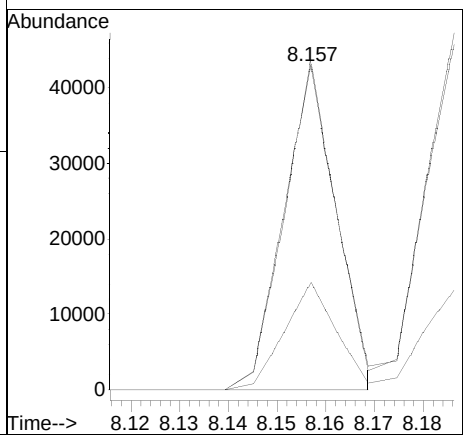


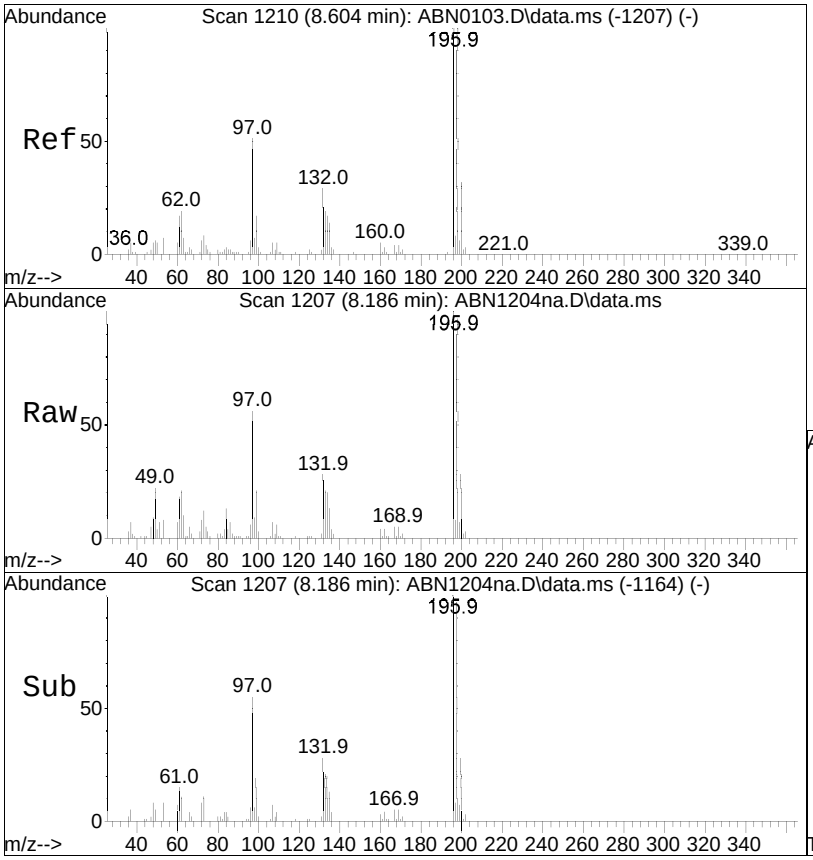


#43
2,4,6-Trichlorophenol
Concen: 4.52 ug/ml
RT: 8.157 min Scan# 1202
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:196 Resp: 32262

Ion	Ratio	Lower	Upper
196	100		
198	100.4	77.5	116.3
200	33.0	23.8	35.6

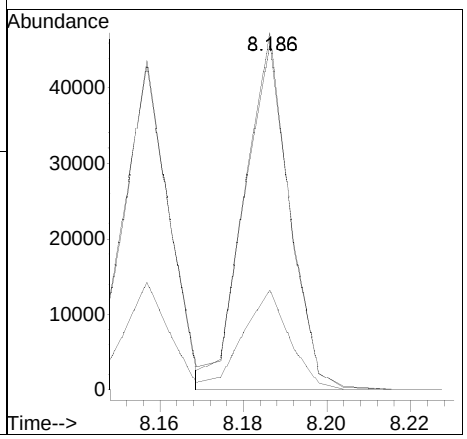


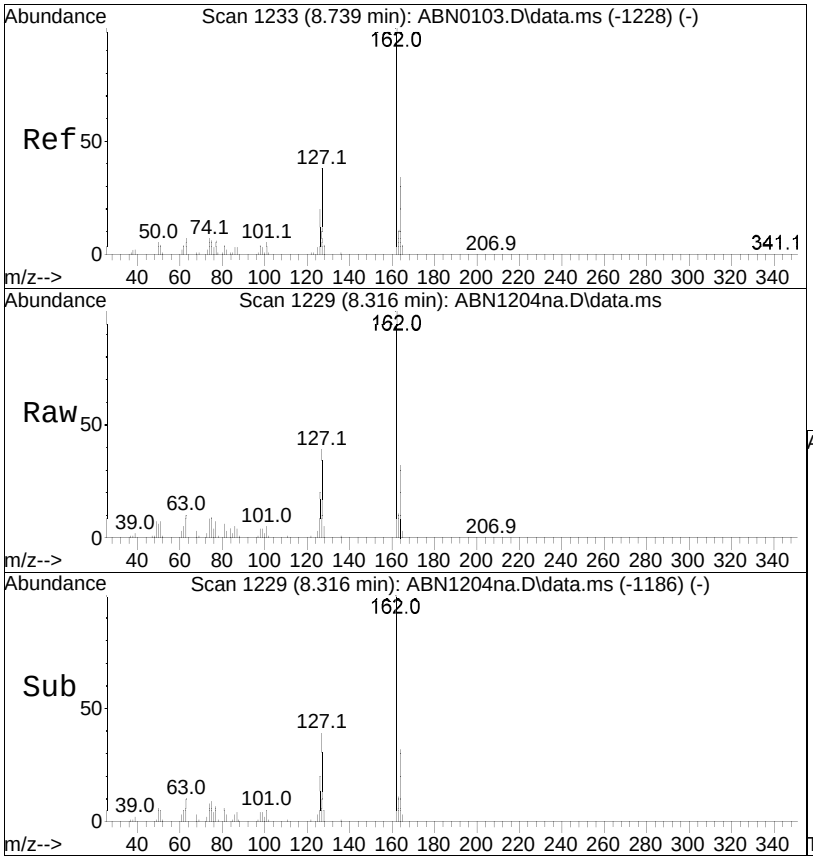


#44
2,4,5-Trichlorophenol
Concen: 4.57 ug/ml M3
RT: 8.186 min Scan# 1207
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:196 Resp: 35145

Ion	Ratio	Lower	Upper
196	100		
200	29.1	25.4	38.0
198	98.5	78.0	117.0

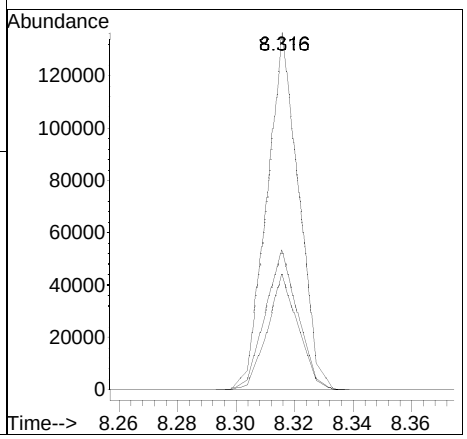


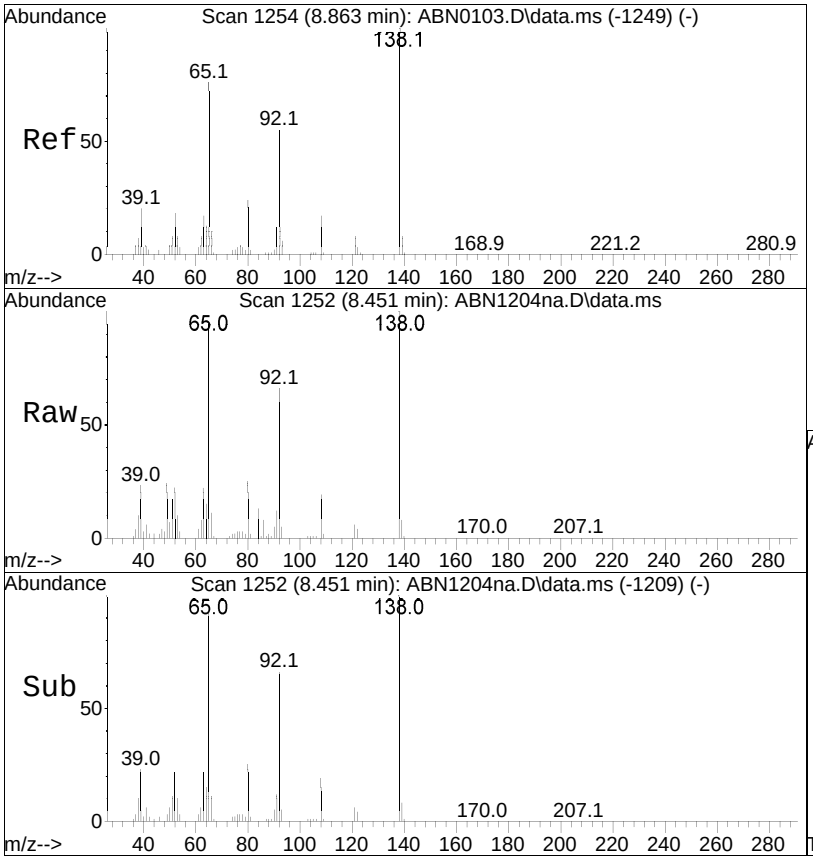


#46
2-Chloronaphthalene
Concen: 4.48 ug/ml
RT: 8.316 min Scan# 1229
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:162 Resp: 102632

Ion	Ratio	Lower	Upper
162	100		
127	40.3	32.2	48.4
164	31.7	25.7	38.5

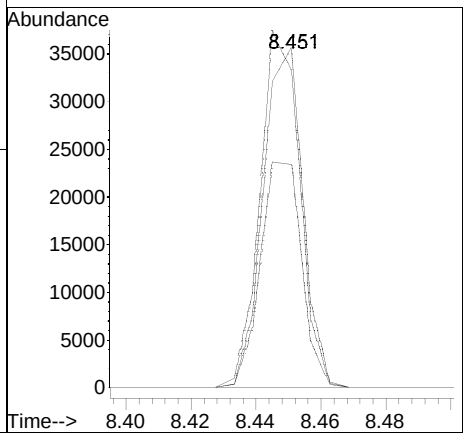


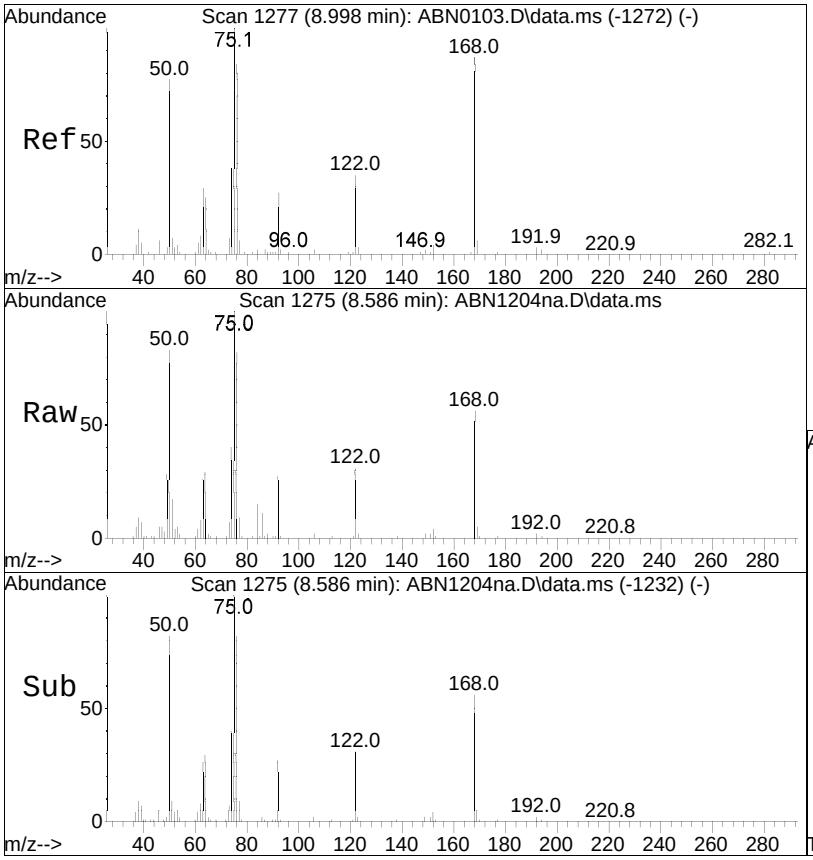


#47
2-Nitroaniline
Concen: 4.78 ug/ml
RT: 8.451 min Scan# 1252
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:138 Resp: 30148

Ion	Ratio	Lower	Upper
138	100		
92	68.9	53.5	80.3
65	104.6	86.3	129.5

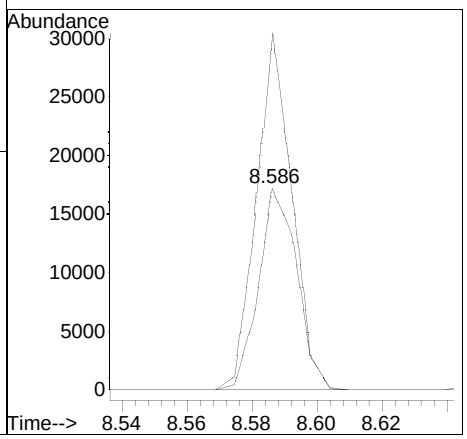


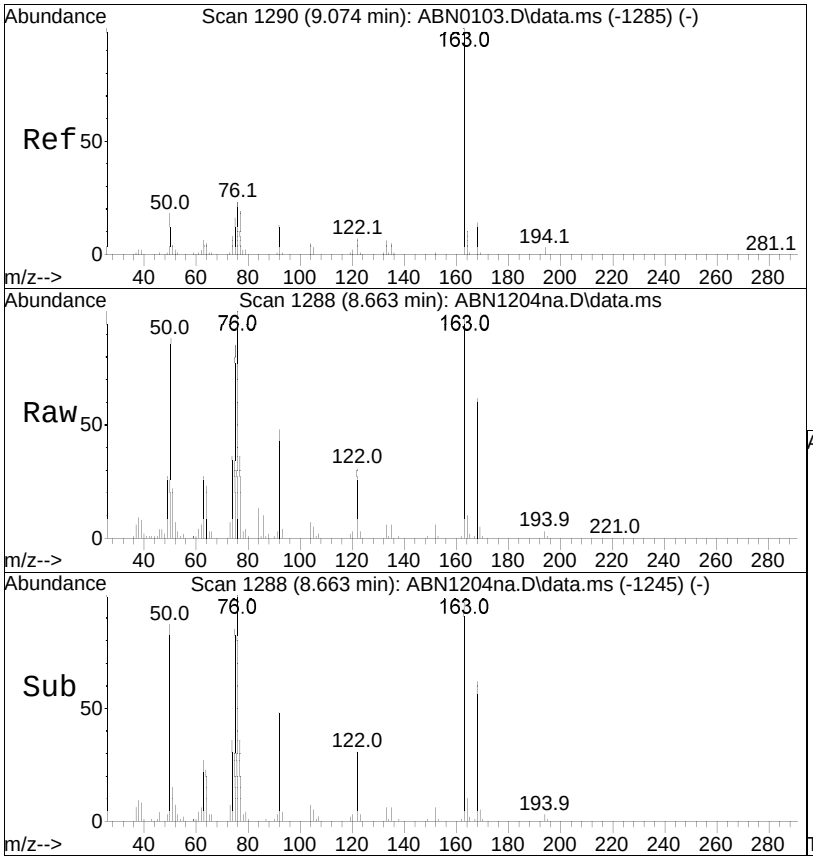


#48
1,4-Dinitrobenzene
Concen: 5.27 ug/ml
RT: 8.586 min Scan# 1275
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:168 Resp: 14084

Ion	Ratio	Lower	Upper
168	100		
75	162.6	121.8	182.8

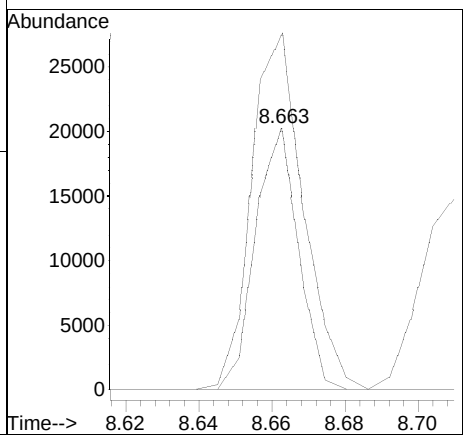


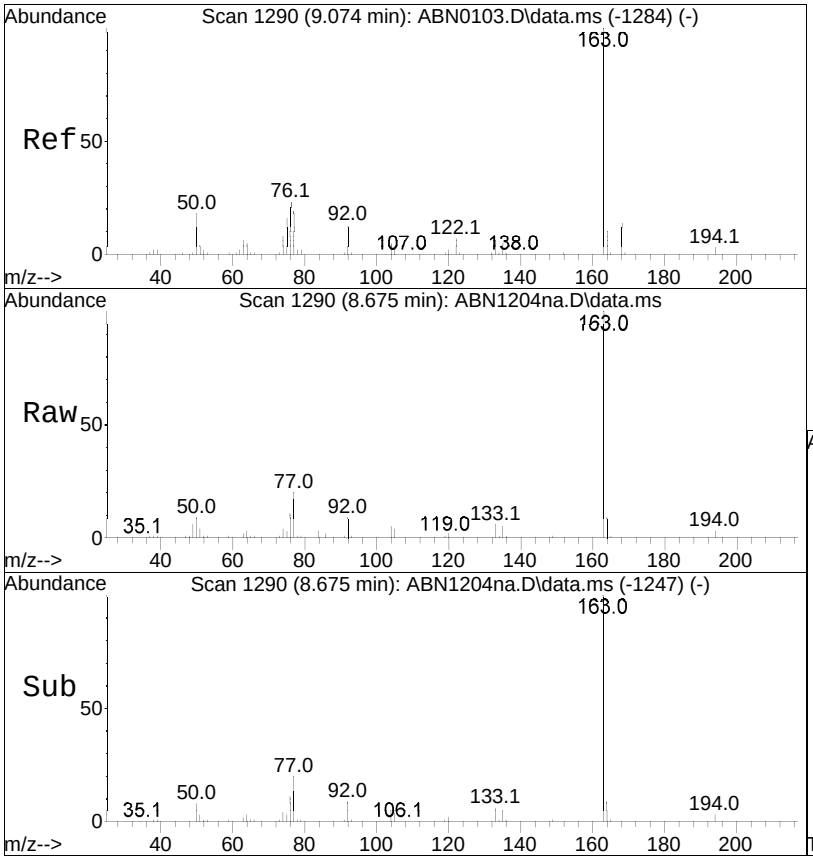


#49
1,3-Dinitrobenzene
Concen: 5.31 ug/ml
RT: 8.663 min Scan# 1288
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:168 Resp: 16527

Ion	Ratio	Lower	Upper
168	100		
75	164.6	22.7	34.1#

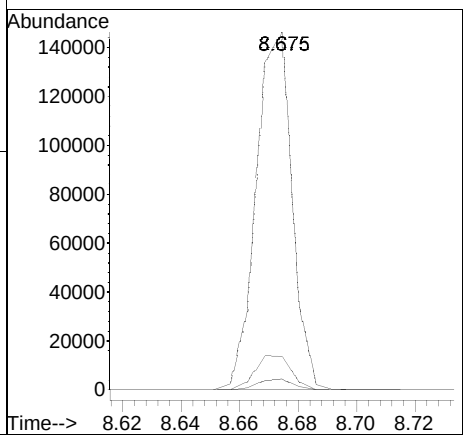


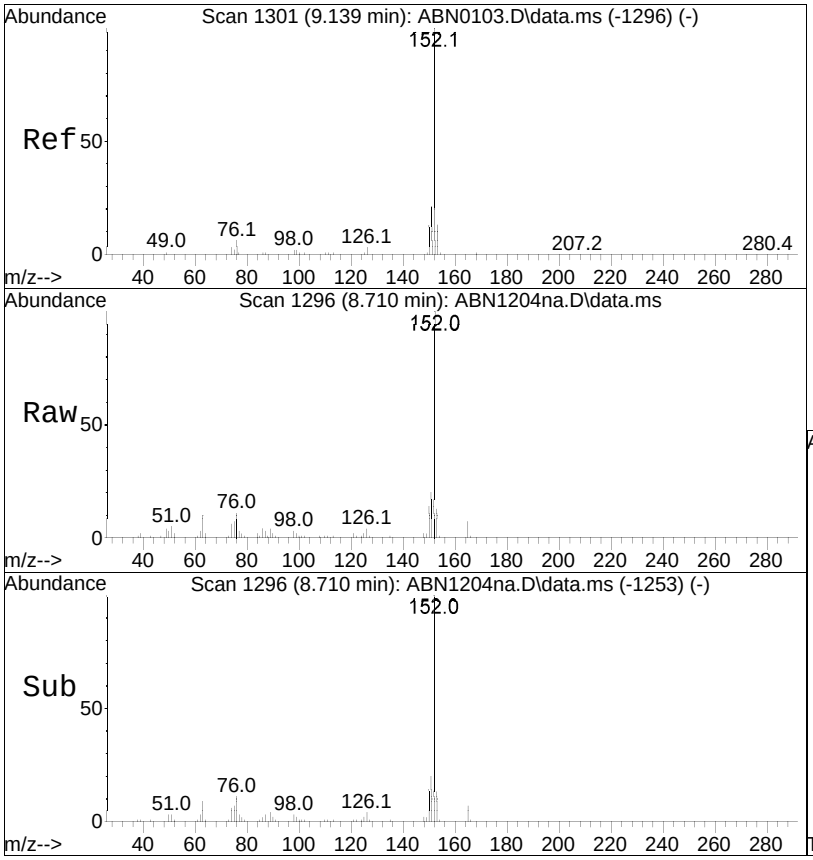


#50
Dimethyl phthalate
Concen: 4.57 ug/ml
RT: 8.675 min Scan# 1290
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:163 Resp: 123272

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	9.8	7.9	11.9

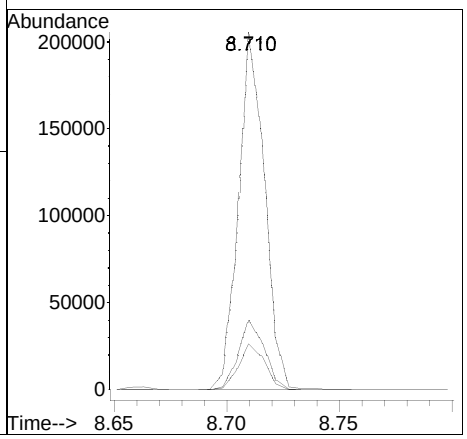


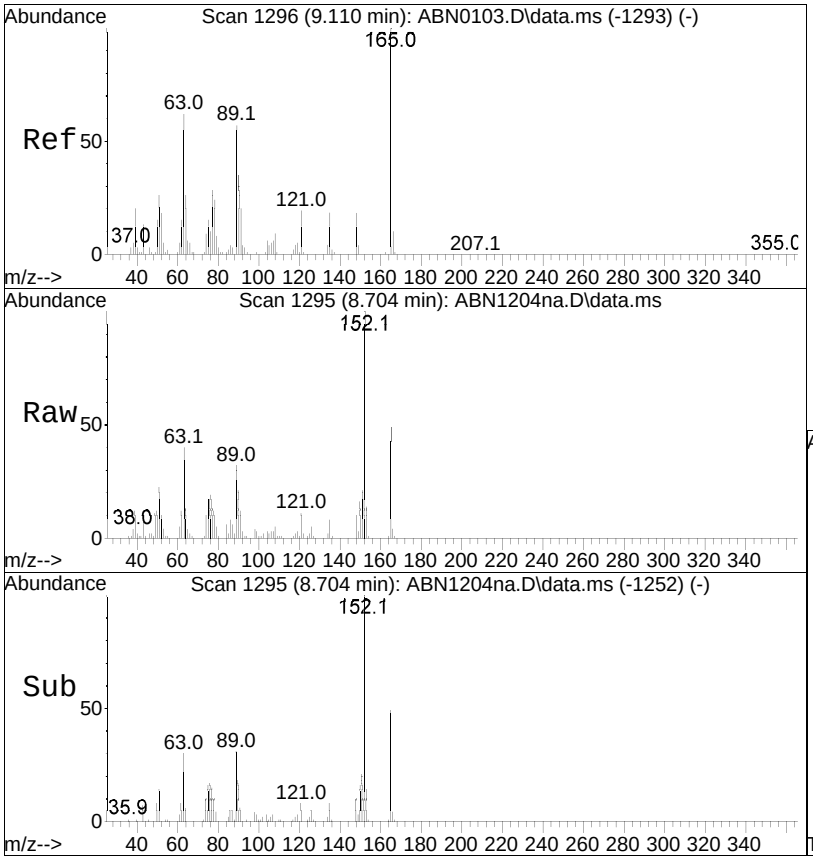


#51
Acenaphthylene
Concen: 4.44 ug/ml
RT: 8.710 min Scan# 1296
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:152 Resp: 163767

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.6
153	13.0	10.5	15.7

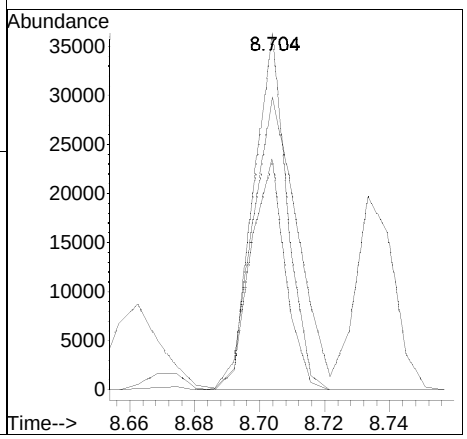


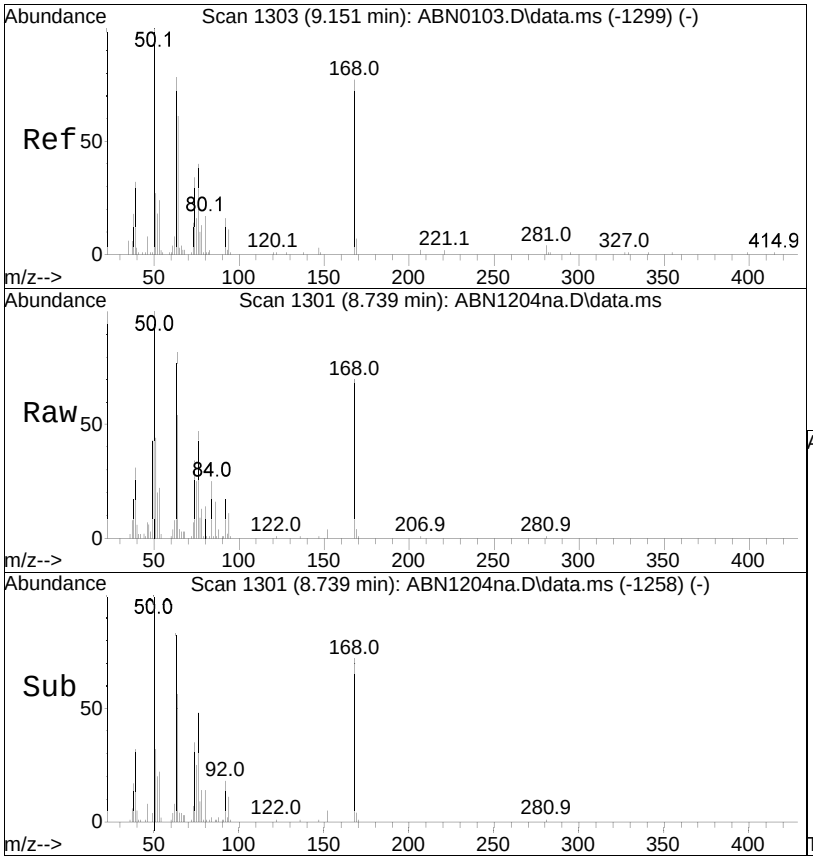


#52
2,6-Dinitrotoluene
Concen: 5.04 ug/ml M3
RT: 8.704 min Scan# 1295
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:165 Resp: 26125

Ion	Ratio	Lower	Upper
165	100		
89	67.0	54.2	81.2
63	108.5	64.2	96.2#

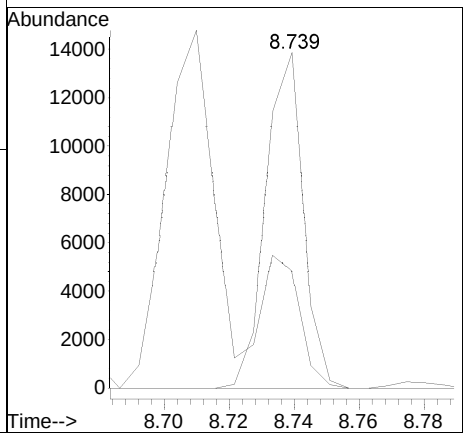


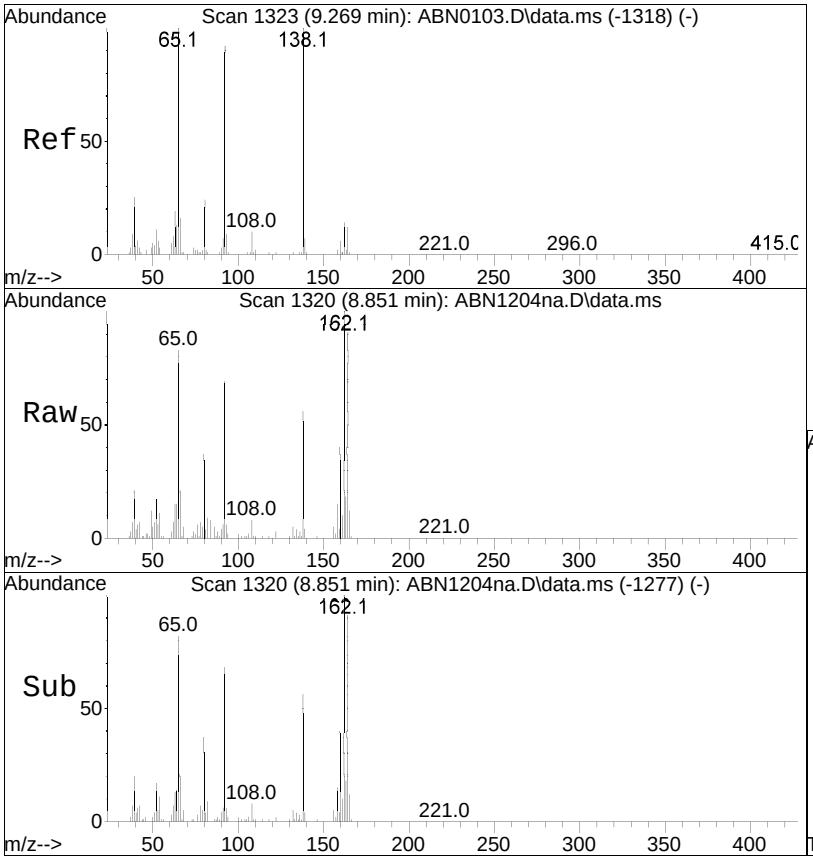


#53
1,2-Dinitrobenzene
Concen: 5.13 ug/ml
RT: 8.739 min Scan# 1301
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:168 Resp: 11125

Ion	Ratio	Lower	Upper
168	100		
75	36.2	30.9	46.3

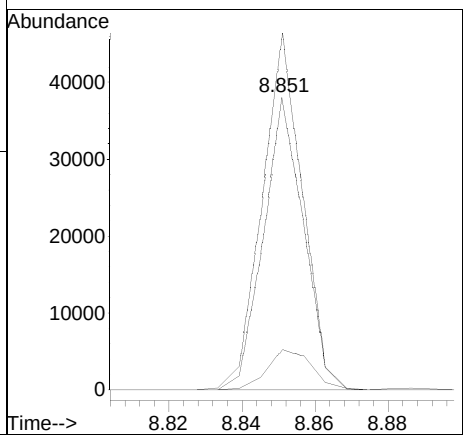


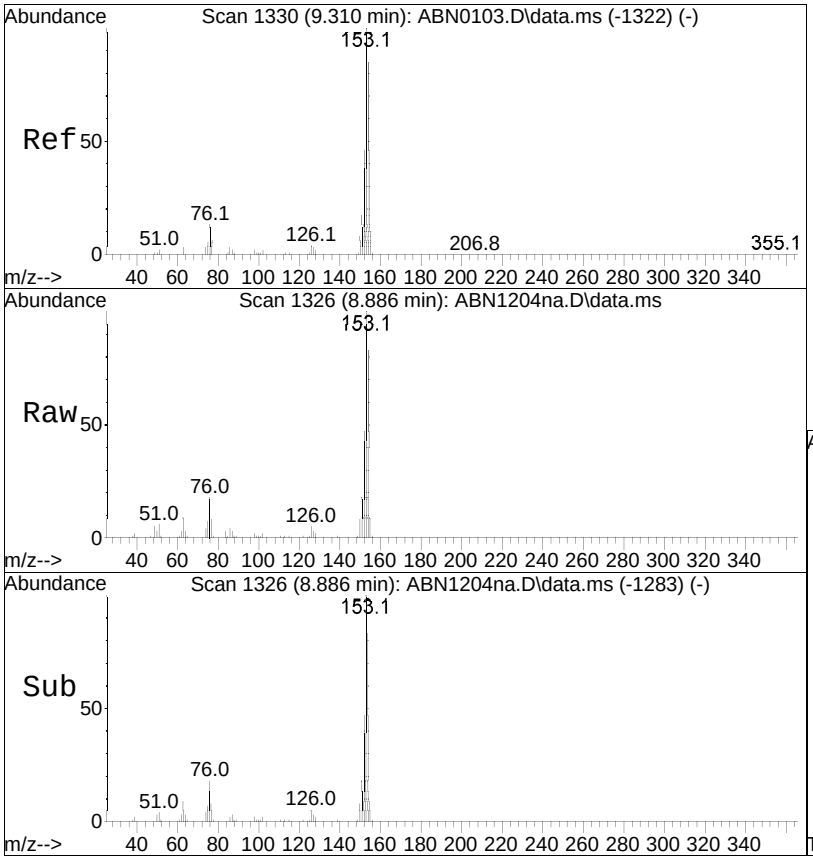


#63
3-Nitroaniline
Concen: 5.11 ug/ml
RT: 8.851 min Scan# 1320
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:138 Resp: 28852

Ion	Ratio	Lower	Upper
138	100		
92	122.6	93.4	140.2
108	15.6	9.5	14.3#

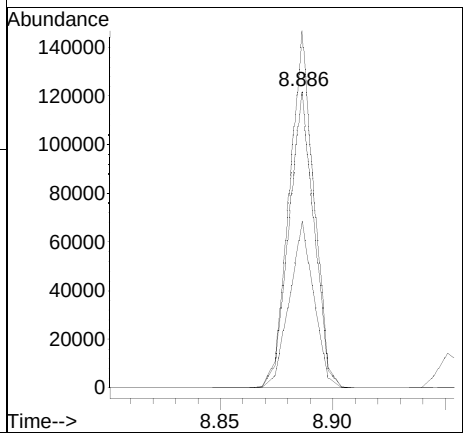


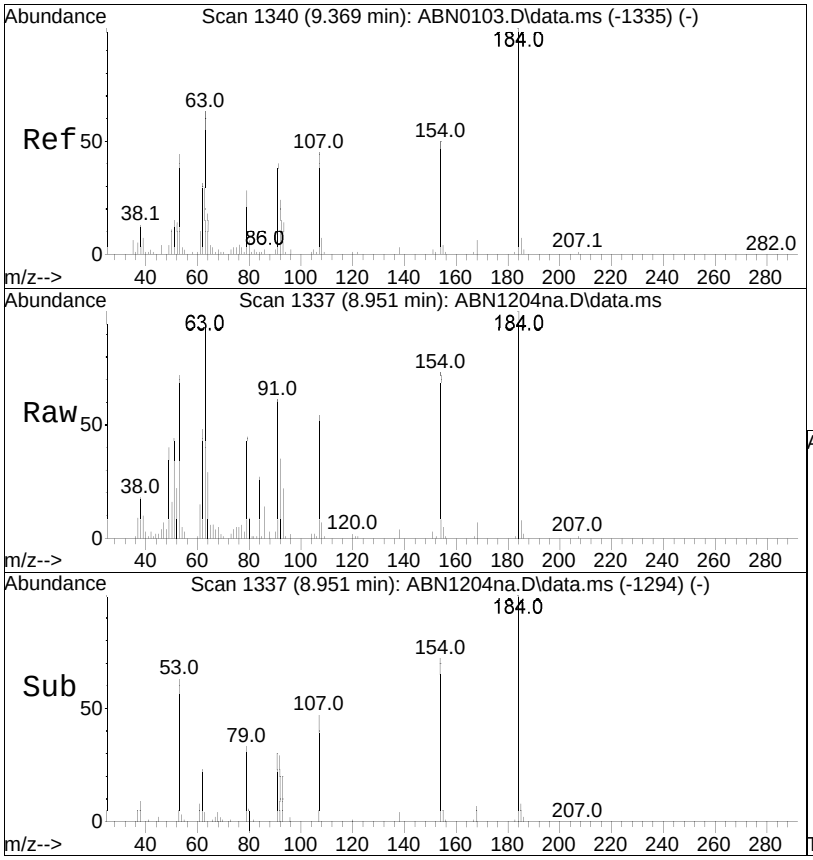


#64
Acenaphthene
Concen: 4.24 ug/ml
RT: 8.886 min Scan# 1326
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:154 Resp: 94558

Ion	Ratio	Lower	Upper
154	100		
153	117.8	85.3	127.9
152	54.8	41.4	62.0

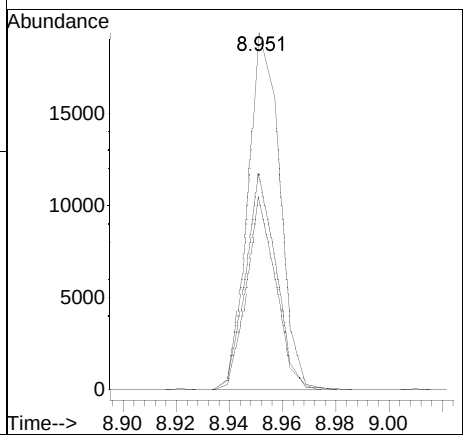


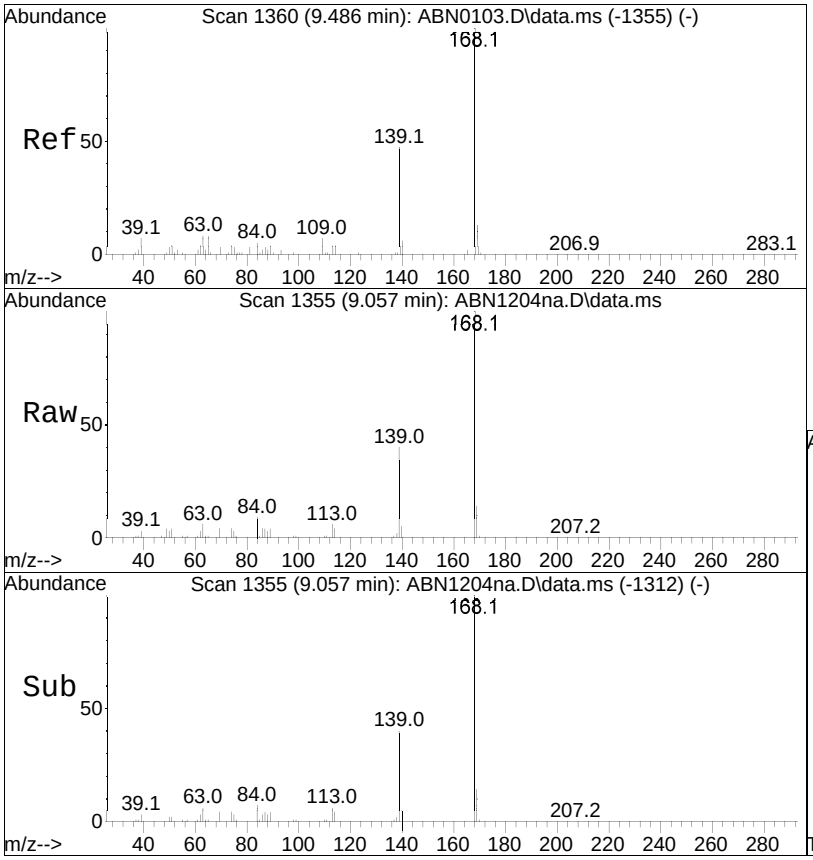


#65
2,4-Dinitrophenol
Concen: 6.20 ug/ml
RT: 8.951 min Scan# 1337
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:184 Resp: 16208

Ion	Ratio	Lower	Upper
184	100		
107	49.3	37.7	56.5
91	57.8	46.3	69.5

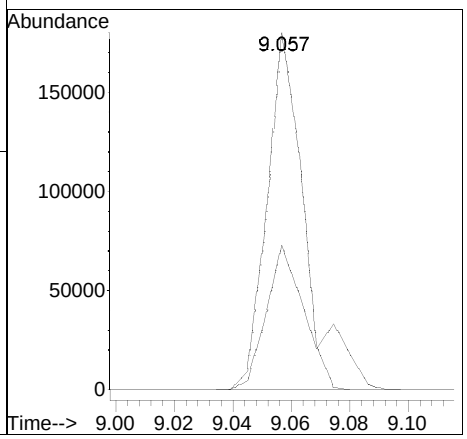


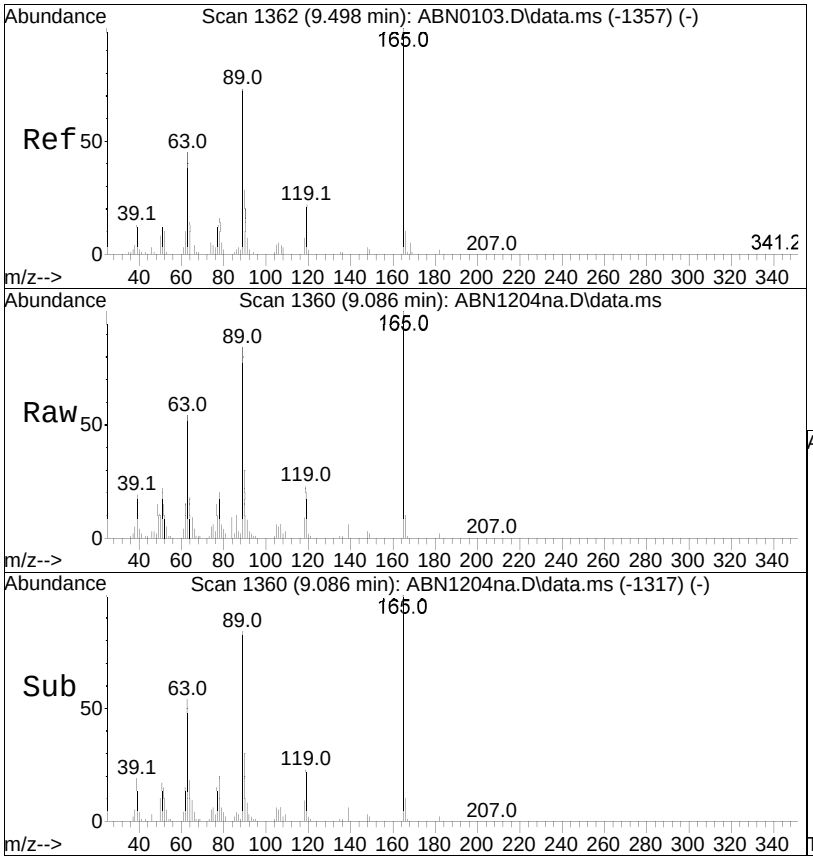


#66
Dibenzofuran
Concen: 4.34 ug/ml
RT: 9.057 min Scan# 1355
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:168 Resp: 144659

Ion	Ratio	Lower	Upper
168	100		
139	57.2	31.4	47.2#

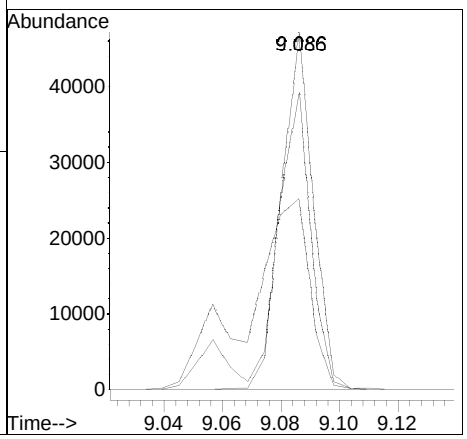


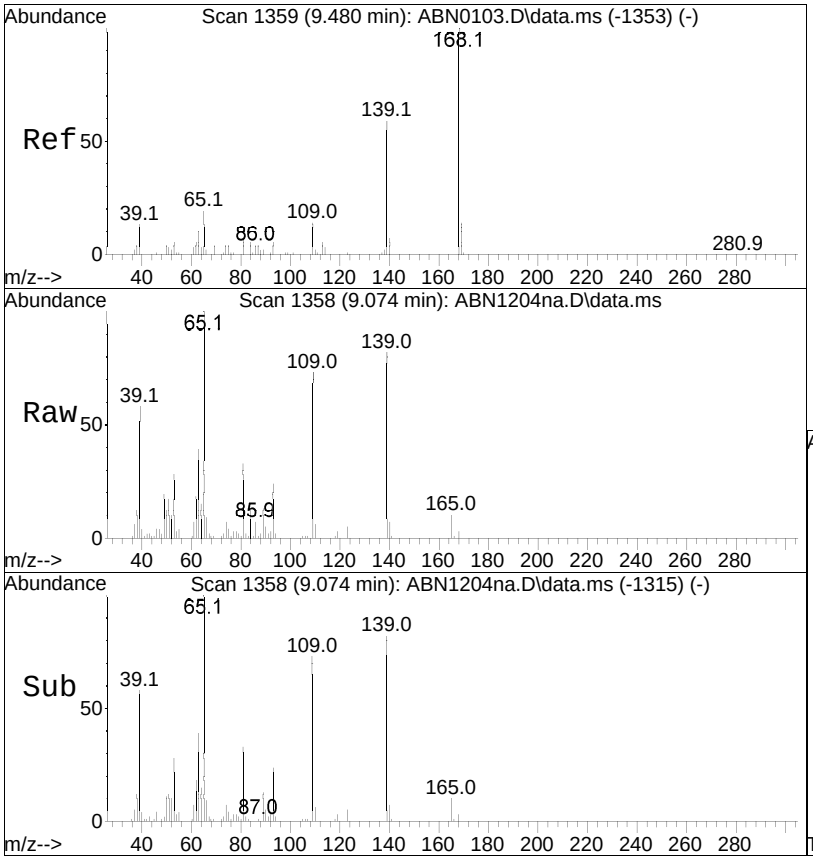


#67
2,4-Dinitrotoluene
Concen: 4.97 ug/ml
RT: 9.086 min Scan# 1360
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:165 Resp: 35458

Ion	Ratio	Lower	Upper
165	100		
89	83.7	72.0	108.0
63	71.7	52.7	79.1

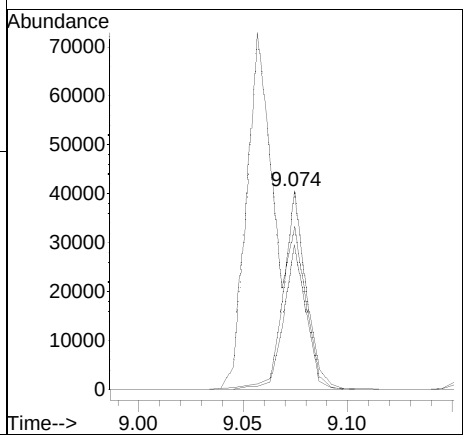


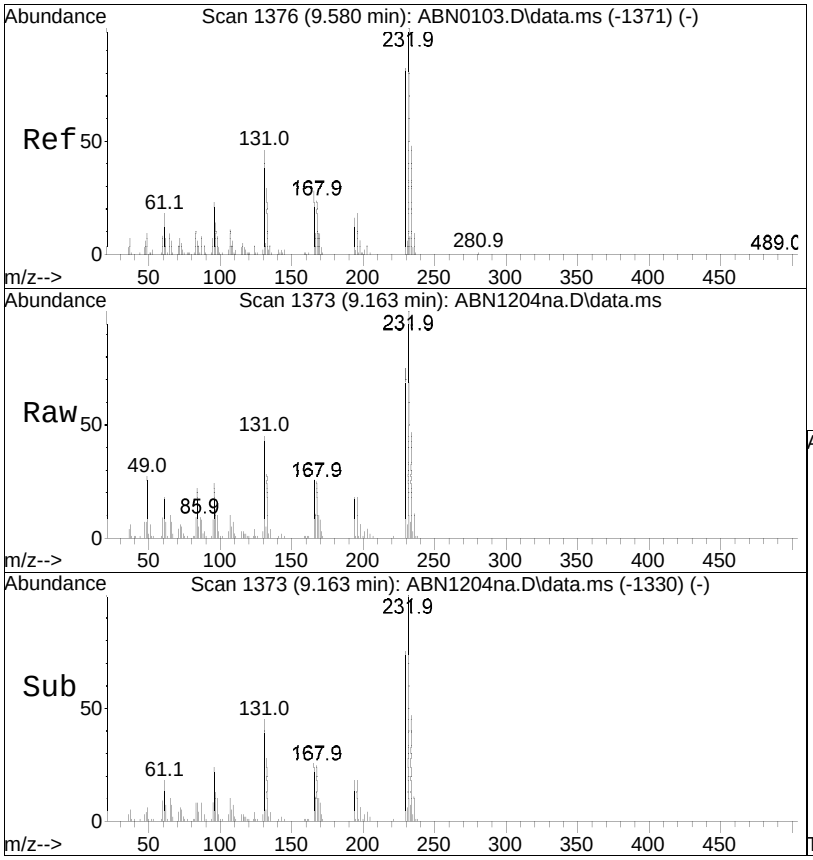


#68
4-Nitrophenol
Concen: 5.66 ug/ml
RT: 9.074 min Scan# 1358
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 65 Resp: 30617

Ion	Ratio	Lower	Upper
65	100		
109	72.0	47.4	71.2#
139	270.1	76.6	115.0#

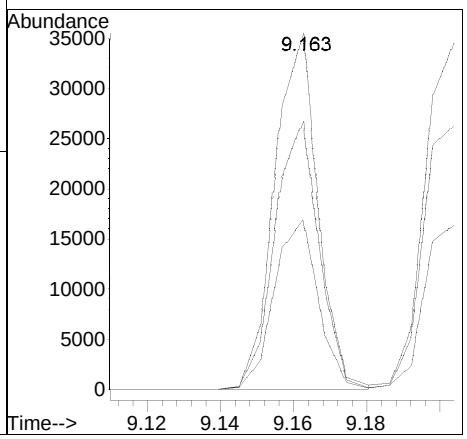


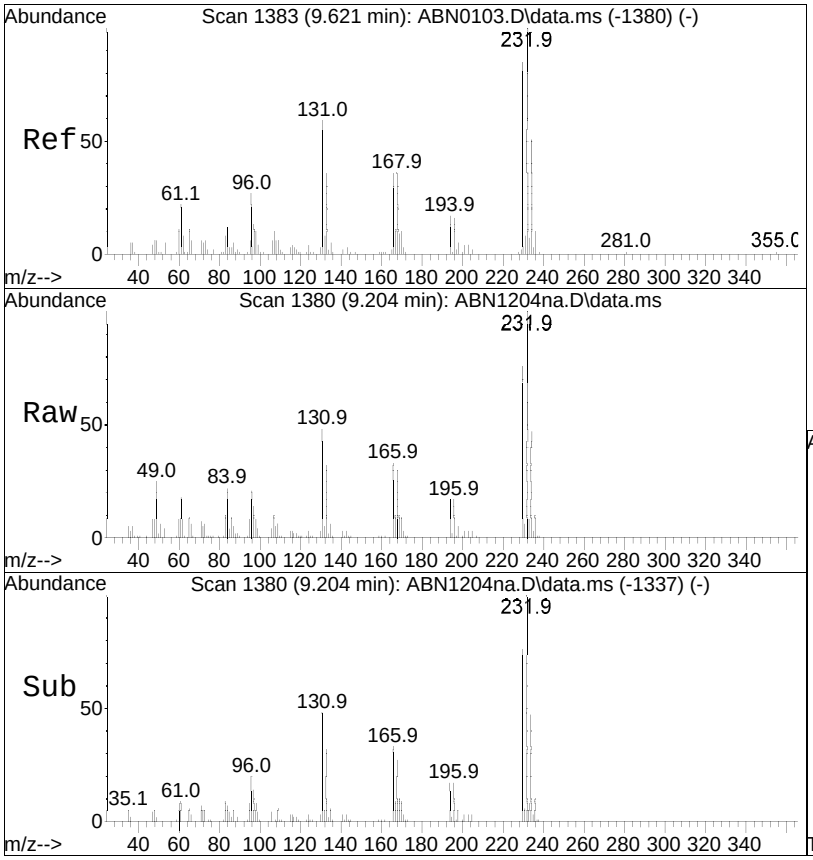


#69
2,3,5,6-Tetrachlorophenol
Concen: 4.54 ug/ml
RT: 9.163 min Scan# 1373
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:232 Resp: 29089

Ion	Ratio	Lower	Upper
232	100		
230	77.2	64.2	96.4
234	48.9	38.1	57.1

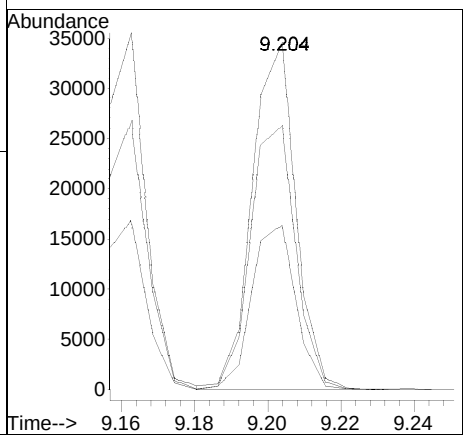


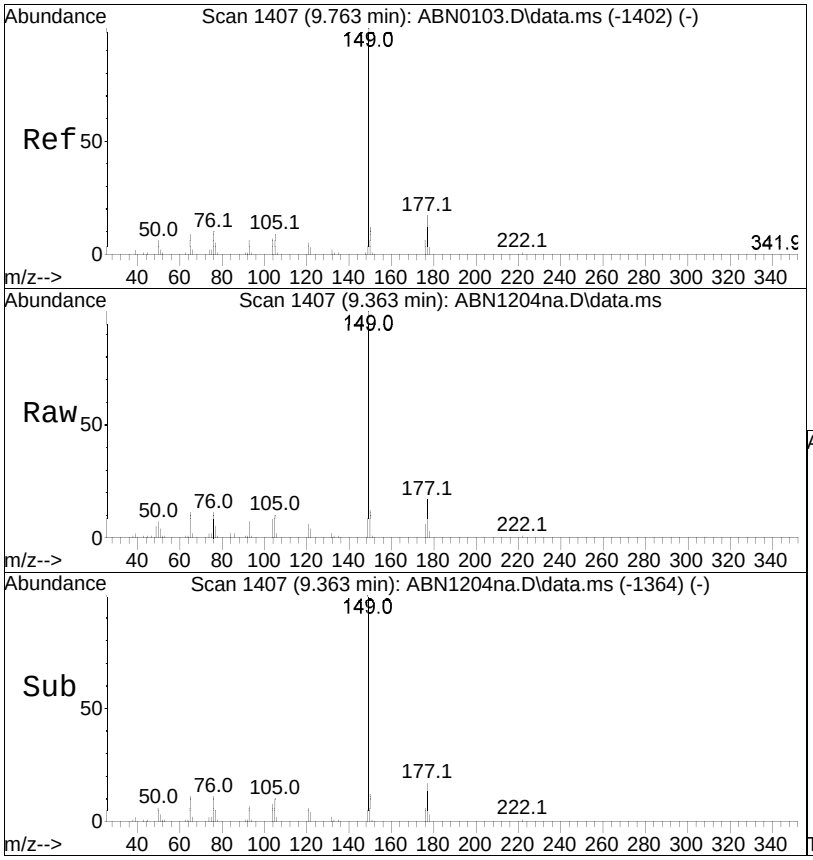


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.31 ug/ml M3
RT: 9.204 min Scan# 1380
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:232 Resp: 28679

Ion	Ratio	Lower	Upper
232	100		
230	79.9	61.8	92.8
234	48.6	36.2	54.2

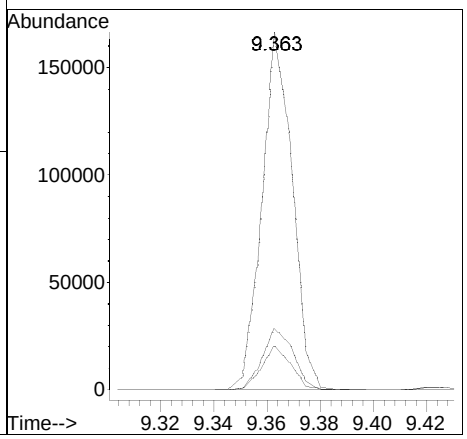


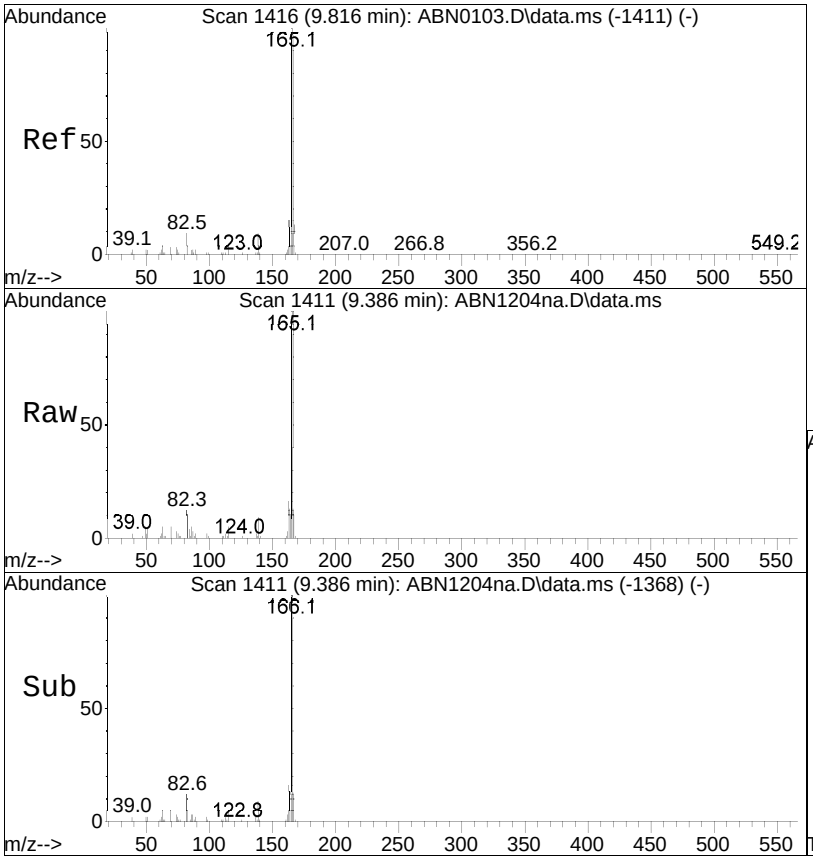


#71
Diethyl phthalate
Concen: 4.66 ug/ml
RT: 9.363 min Scan# 1407
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:149 Resp: 130120

Ion	Ratio	Lower	Upper
149	100		
177	17.8	16.1	24.1
150	12.3	9.4	14.2

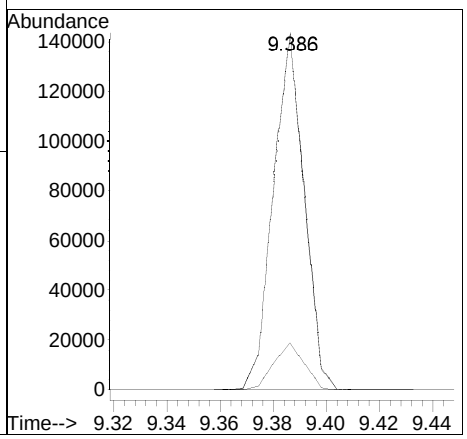


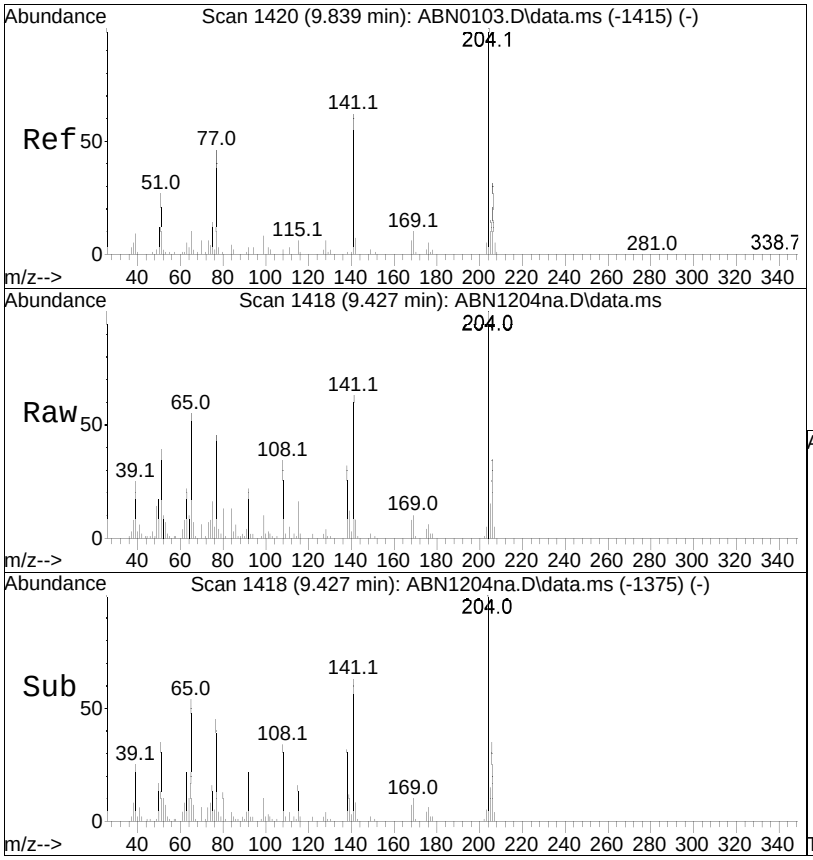


#72
Fluorene
Concen: 4.37 ug/ml
RT: 9.386 min Scan# 1411
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:166 Resp: 114943

Ion	Ratio	Lower	Upper
166	100		
165	100.8	76.2	114.2
167	13.3	10.6	15.8

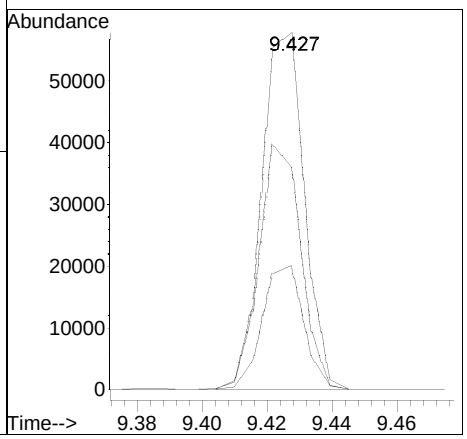


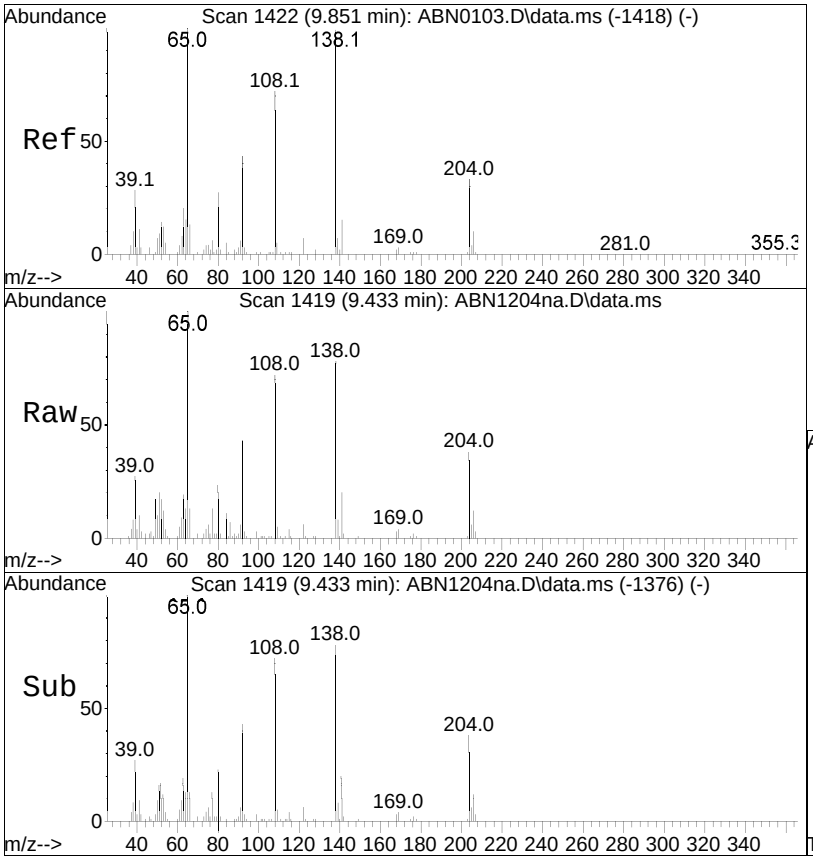


#73
4-Chlorophenyl phenyl ether
Concen: 4.19 ug/ml
RT: 9.427 min Scan# 1418
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:204 Resp: 52599

Ion	Ratio	Lower	Upper
204	100		
206	34.0	25.8	38.6
141	67.4	53.6	80.4

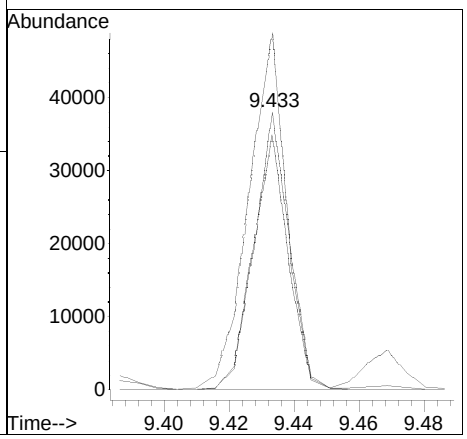


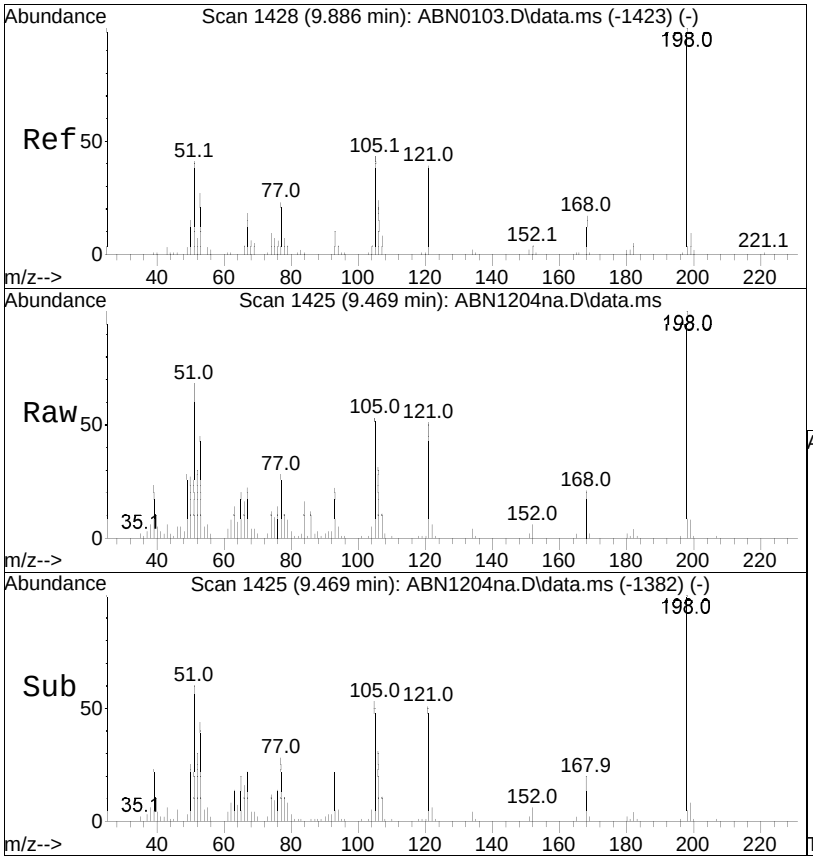


#74
4-Nitroaniline
Concen: 4.94 ug/ml
RT: 9.433 min Scan# 1419
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:138 Resp: 28137

Ion	Ratio	Lower	Upper
138	100		
108	92.9	52.1	78.1#
65	138.8	115.0	172.6

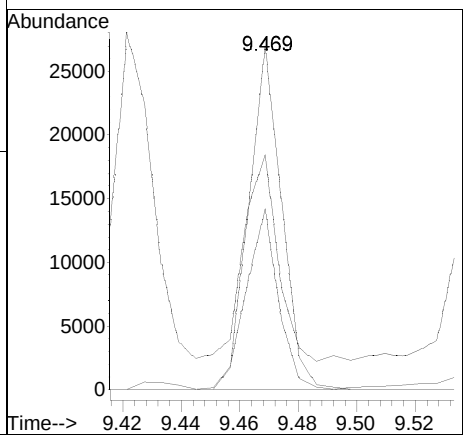


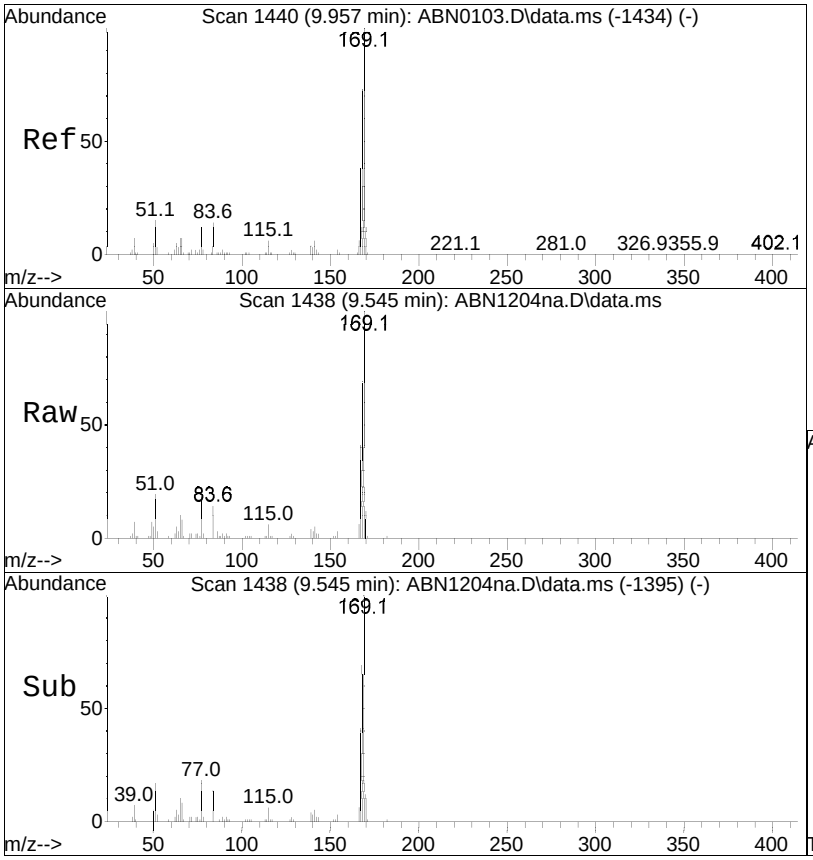


#75
4,6-Dinitro-o-cresol
Concen: 6.14 ug/ml
RT: 9.469 min Scan# 1425
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:198 Resp: 21090

Ion	Ratio	Lower	Upper
198	100		
51	65.4	76.0	114.0#
105	51.7	45.6	68.4

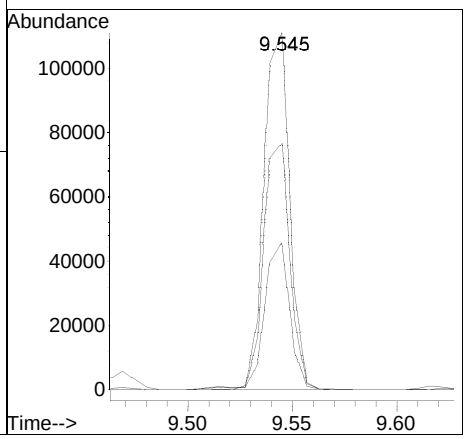


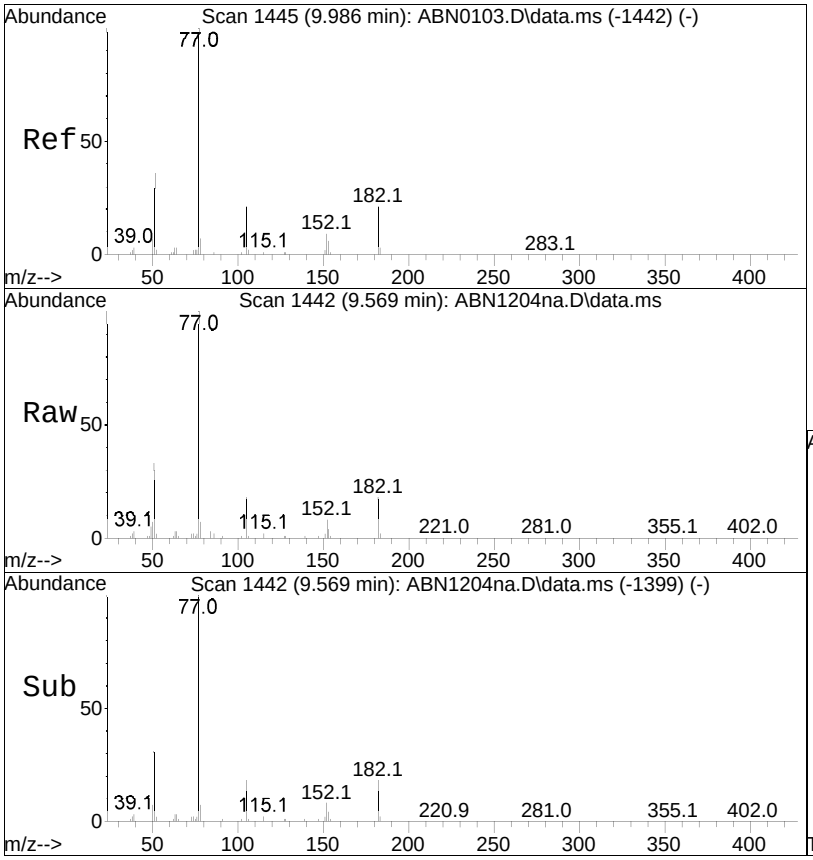


#76
NDPA/DPA
Concen: 4.28 ug/ml
RT: 9.545 min Scan# 1438
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:169 Resp: 94713

Ion	Ratio	Lower	Upper
169	100		
168	71.3	54.0	81.0
167	40.6	28.6	42.8

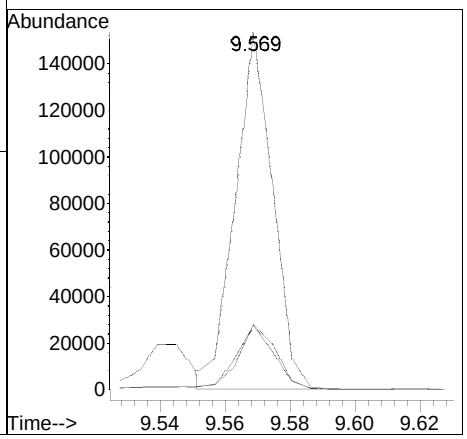


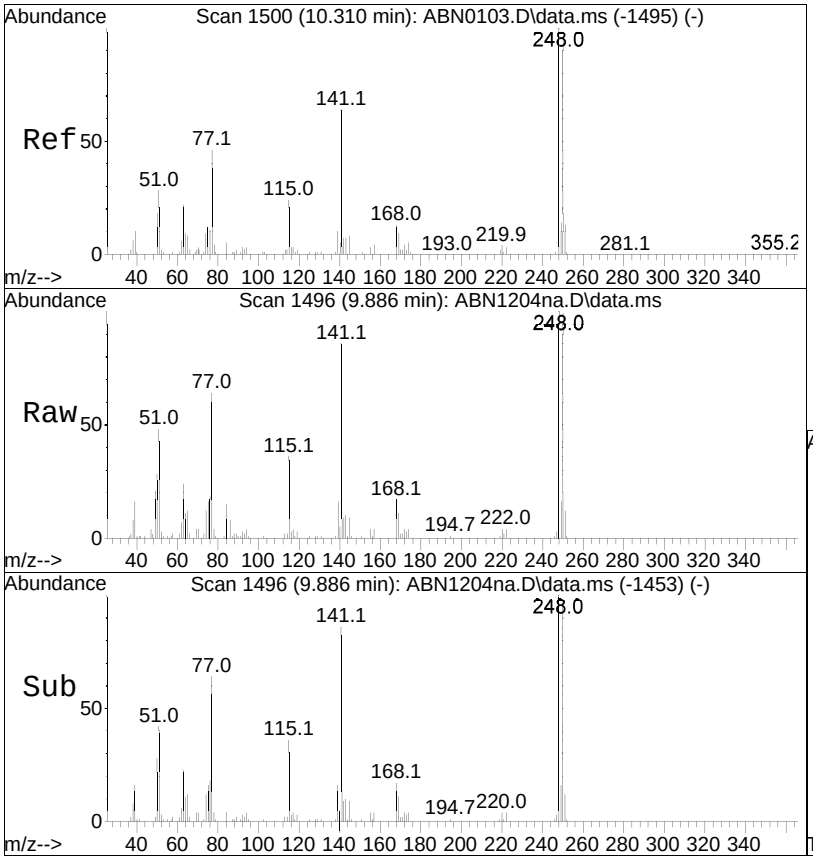


#77
Azobenzene
Concen: 4.68 ug/ml
RT: 9.569 min Scan# 1442
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion: 77 Resp: 121622

Ion	Ratio	Lower	Upper
77	100		
182	20.0	17.4	26.2
105	20.0	15.4	23.2

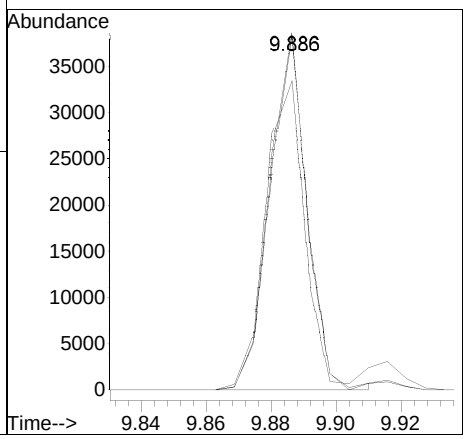


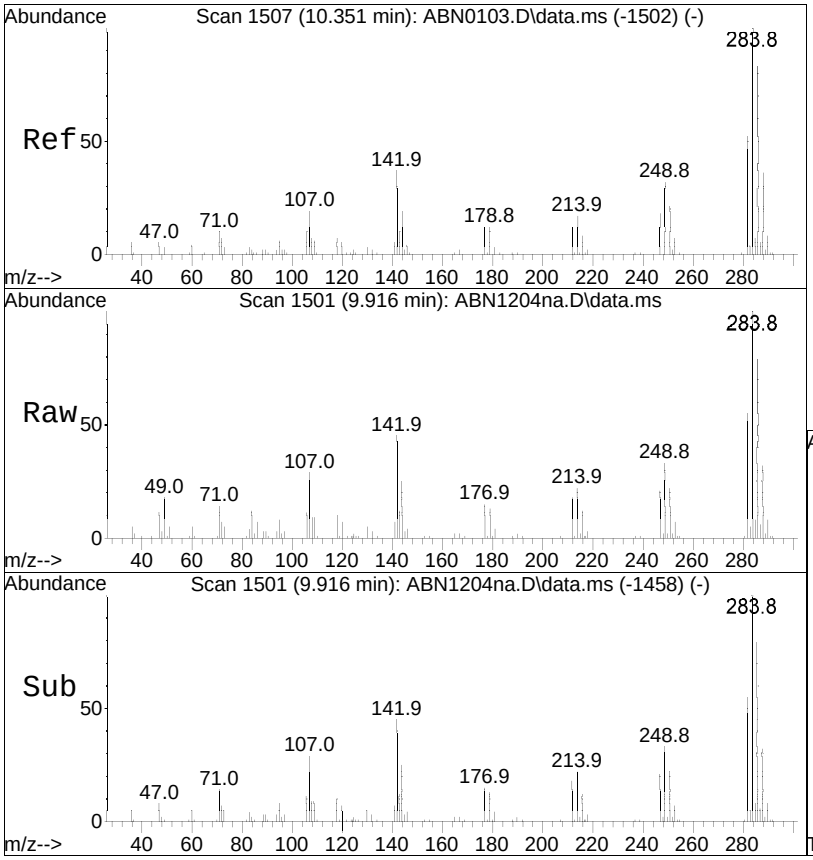


#79
4-Bromophenyl phenyl ether
Concen: 4.18 ug/ml
RT: 9.886 min Scan# 1496
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:248 Resp: 30547

Ion	Ratio	Lower	Upper
248	100		
141	92.1	76.6	114.8
250	99.1	77.3	115.9

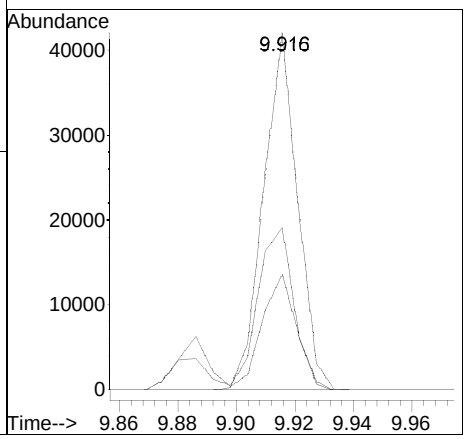


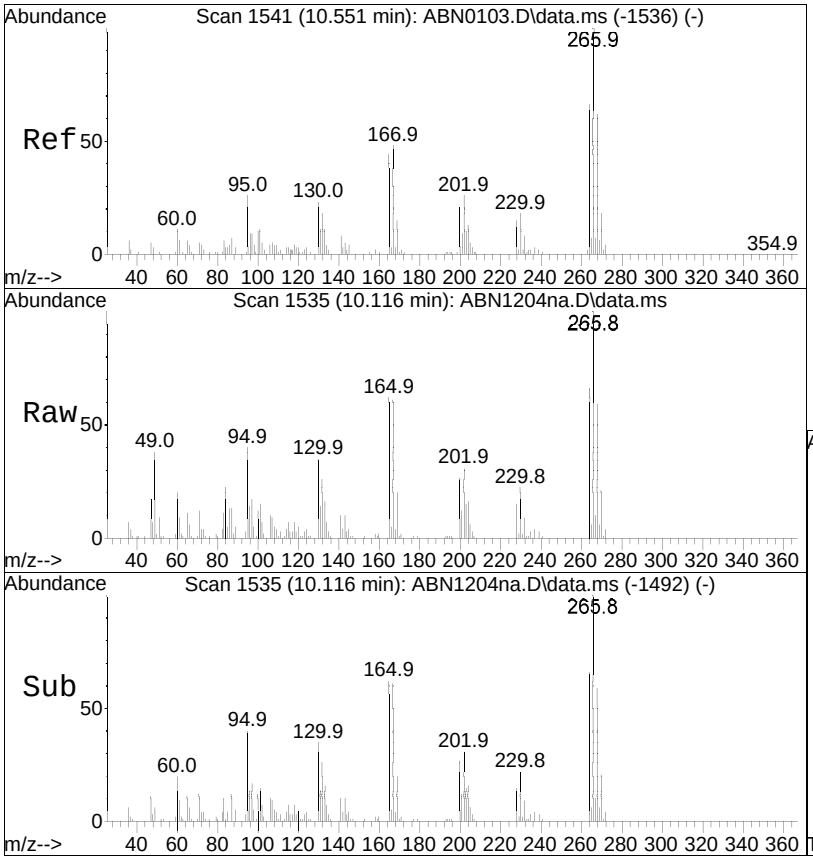


#80
Hexachlorobenzene
Concen: 3.98 ug/ml
RT: 9.916 min Scan# 1501
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:284 Resp: 33864

Ion	Ratio	Lower	Upper
284	100		
142	47.9	41.9	62.9
249	33.1	24.1	36.1

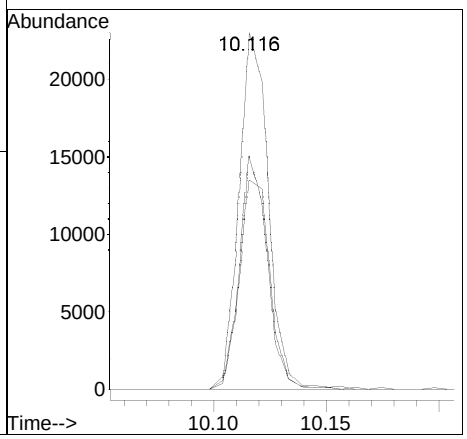


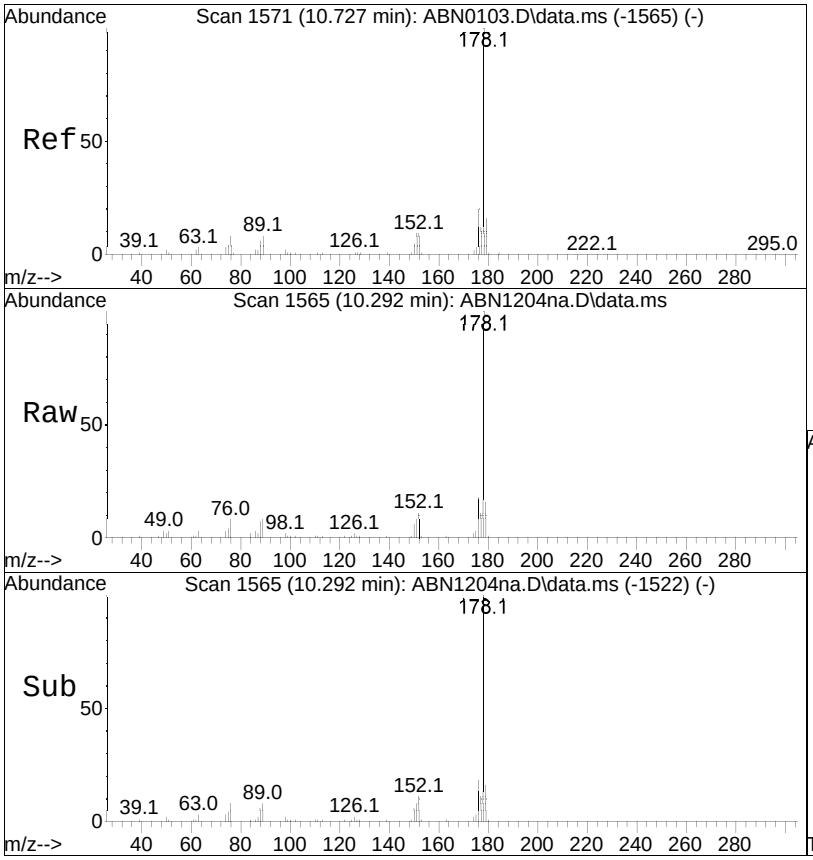


#81
Pentachlorophenol
Concen: 4.20 ug/ml
RT: 10.116 min Scan# 1535
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:266 Resp: 20818

Ion	Ratio	Lower	Upper
266	100		
264	62.5	49.7	74.5
268	61.4	50.5	75.7

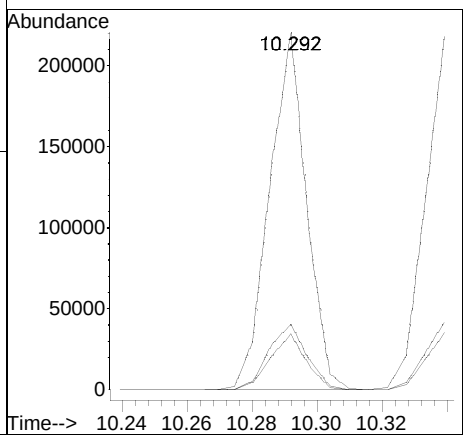


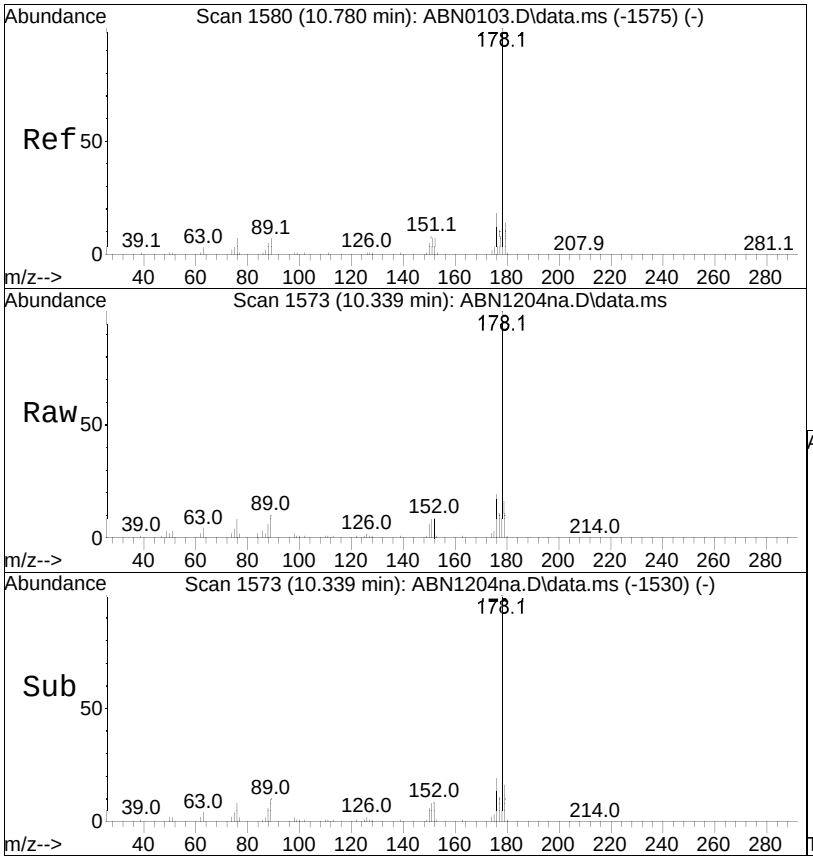


#88
Phenanthrene
Concen: 4.12 ug/ml
RT: 10.292 min Scan# 1565
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:178 Resp: 174260

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	19.1	15.4	23.2

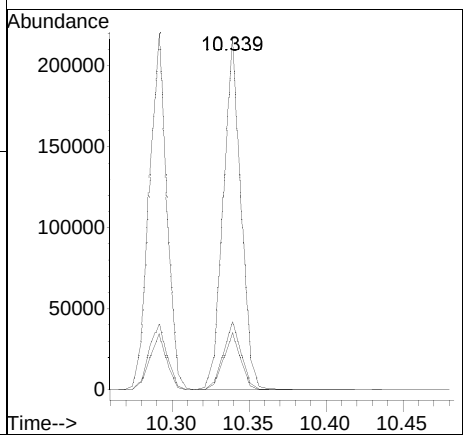


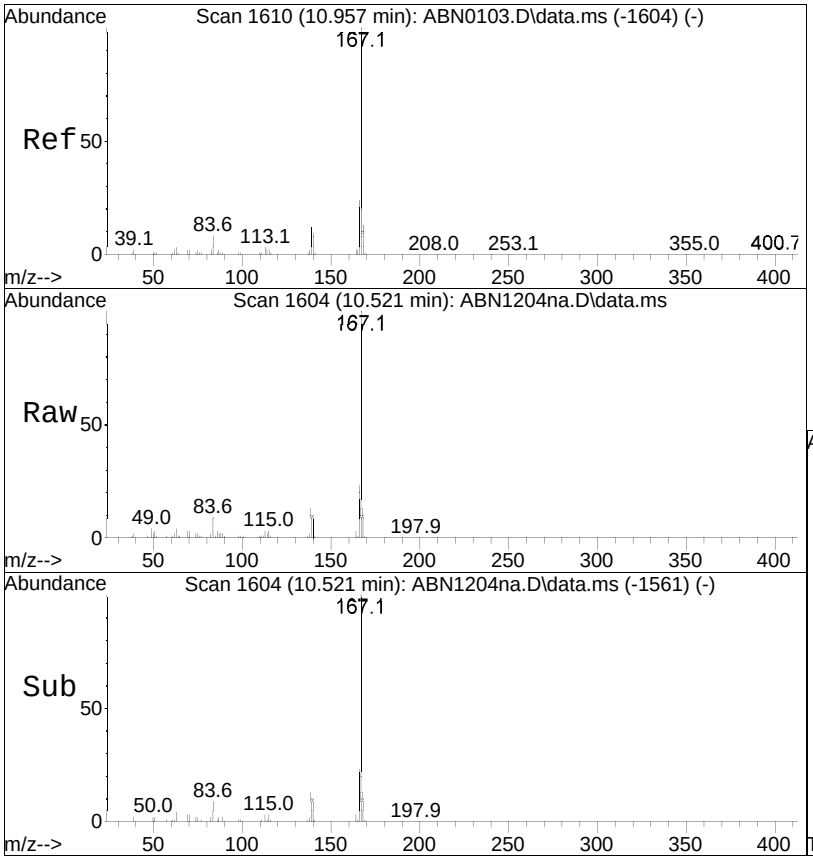


#89
Anthracene
Concen: 4.14 ug/ml
RT: 10.339 min Scan# 1573
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:178 Resp: 174156

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.0	18.0
176	19.5	14.6	22.0

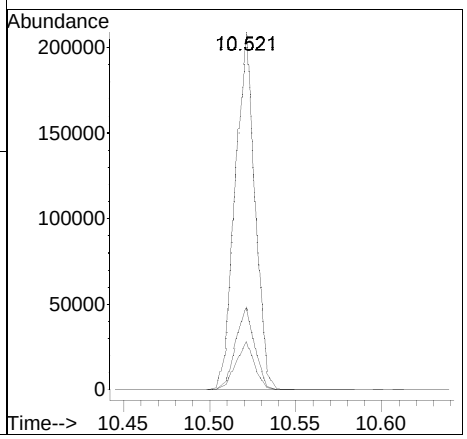


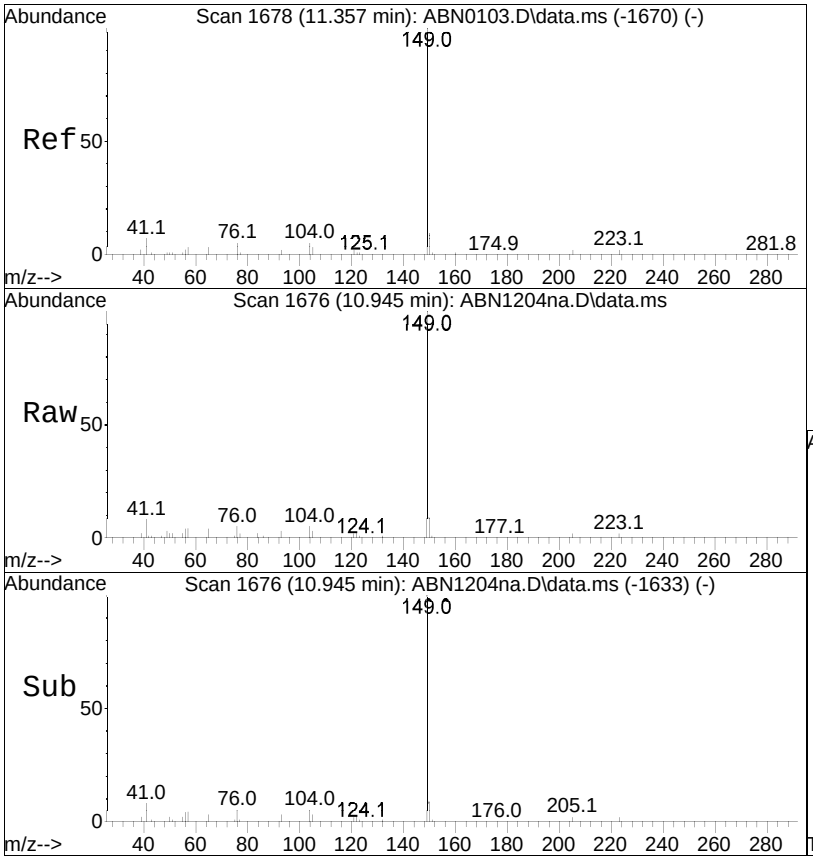


#90
Carbazole
Concen: 4.31 ug/ml
RT: 10.521 min Scan# 1604
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:167 Resp: 165752

Ion	Ratio	Lower	Upper
167	100		
168	13.1	10.6	15.8
166	22.4	17.4	26.0

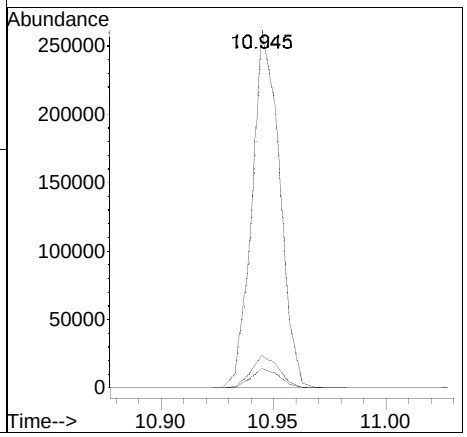


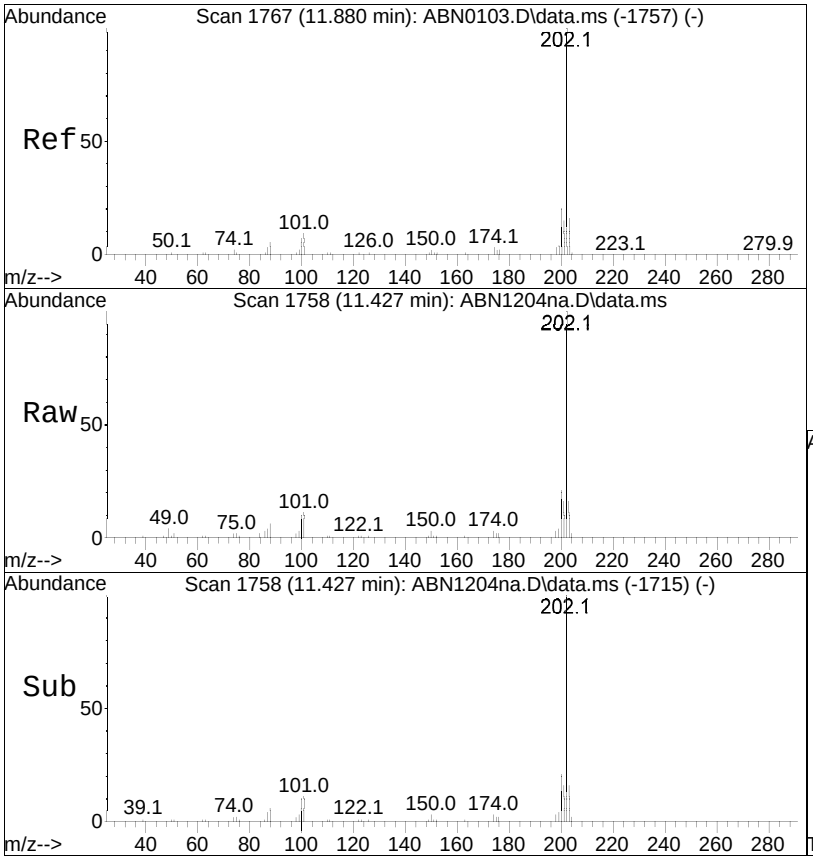


#91
Di-n-butylphthalate
Concen: 4.46 ug/ml
RT: 10.945 min Scan# 1676
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:149 Resp: 219707

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	5.7	4.5	6.7

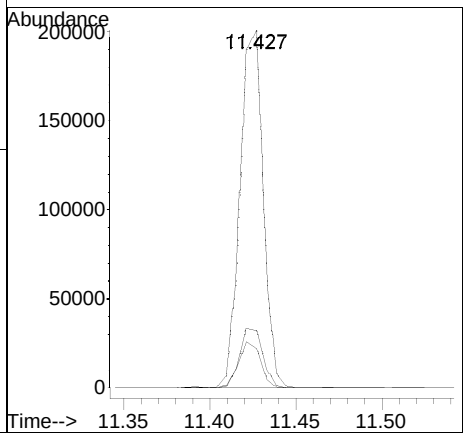


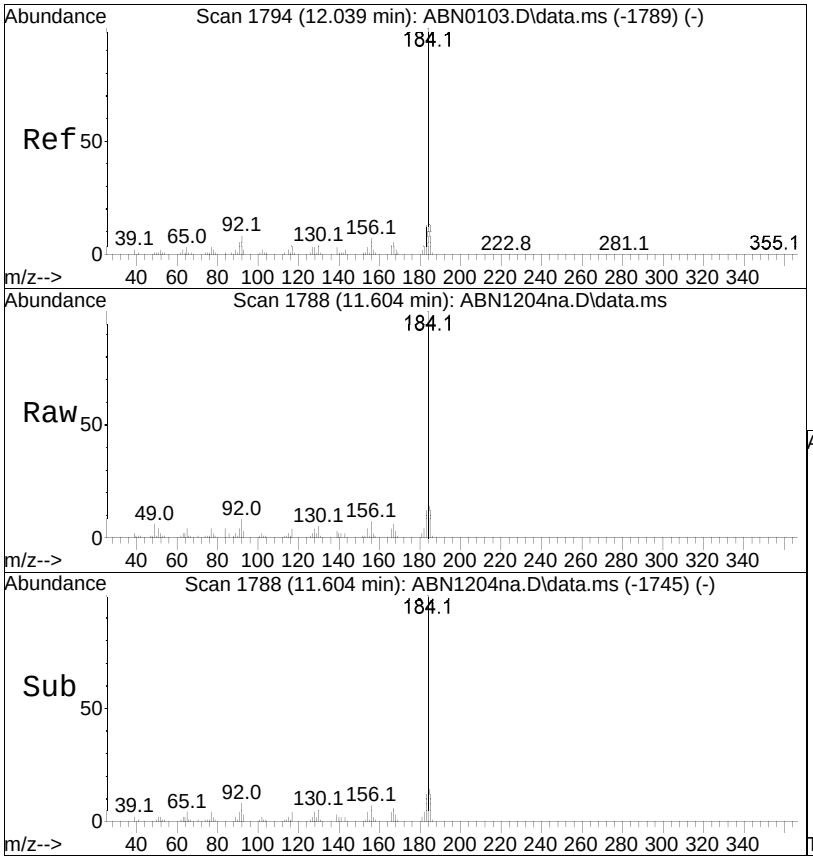


#92
Fluoranthene
Concen: 4.12 ug/ml M3
RT: 11.427 min Scan# 1758
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:202 Resp: 186470

Ion	Ratio	Lower	Upper
202	100		
101	16.1	13.5	20.3
203	19.0	13.6	20.4

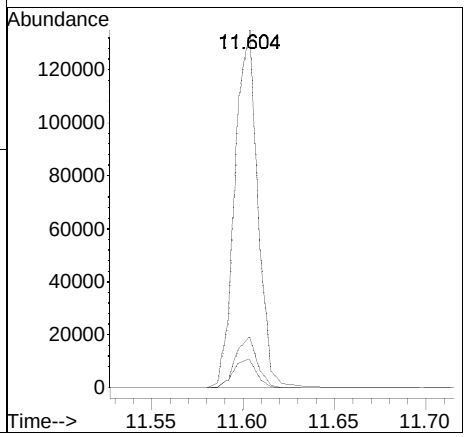


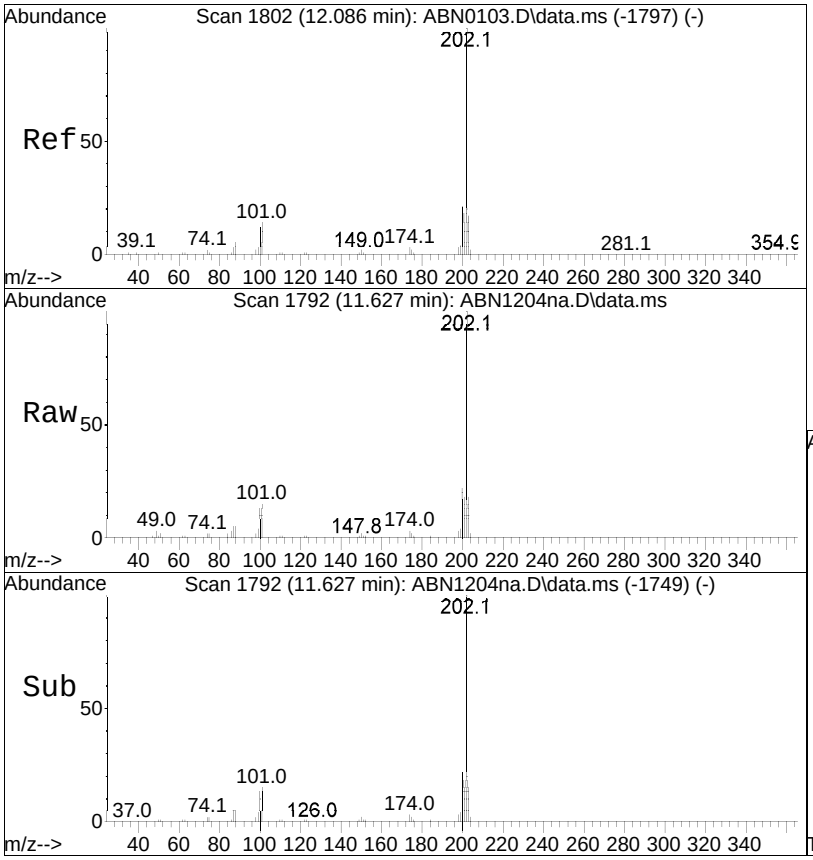


#93
Benzidine
Concen: 3.89 ug/ml
RT: 11.604 min Scan# 1788
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:184 Resp: 116171

Ion	Ratio	Lower	Upper
184	100		
92	8.3	9.1	13.7#
185	13.6	11.1	16.7

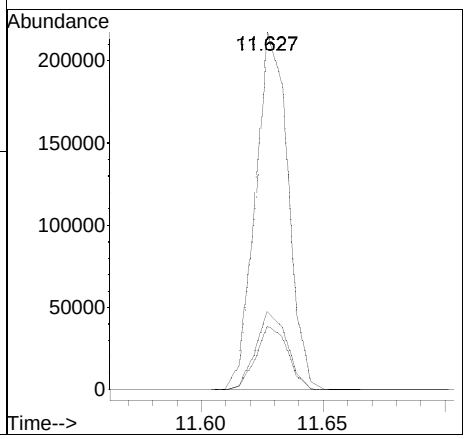


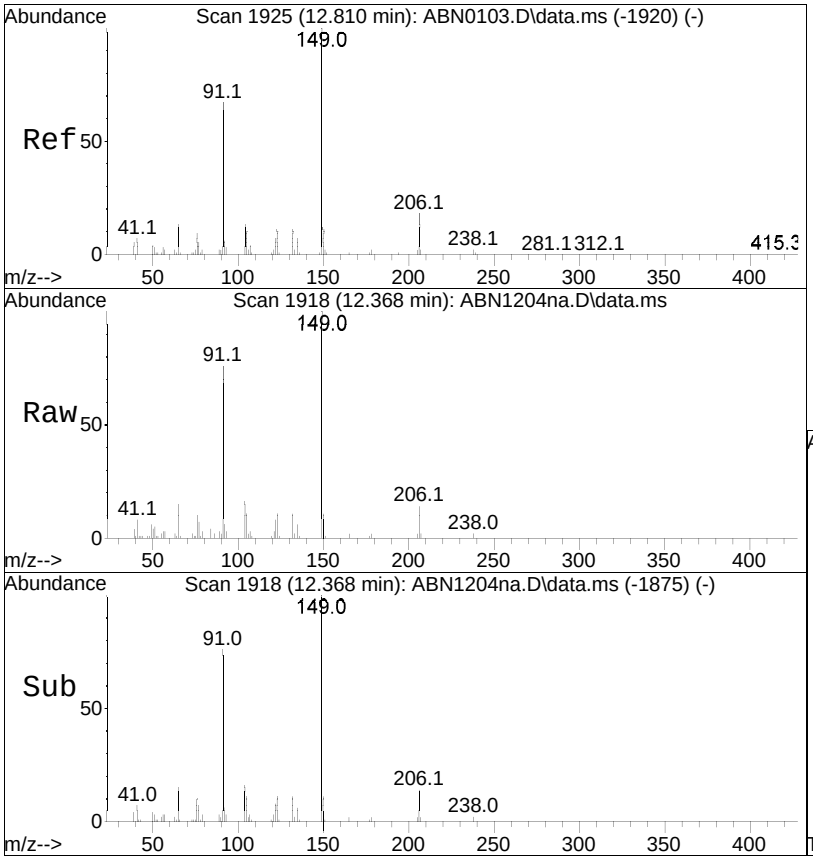


#94
Pyrene
Concen: 4.19 ug/ml
RT: 11.627 min Scan# 1792
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:202 Resp: 200437

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.7	25.1
203	17.6	14.2	21.4

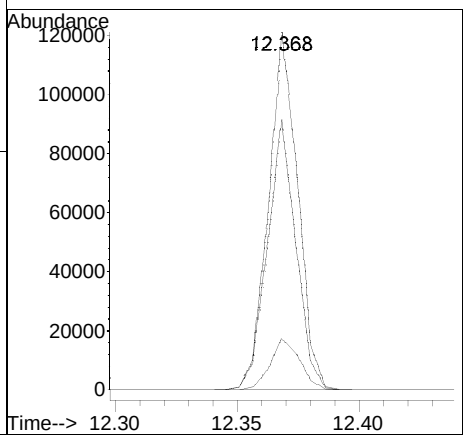


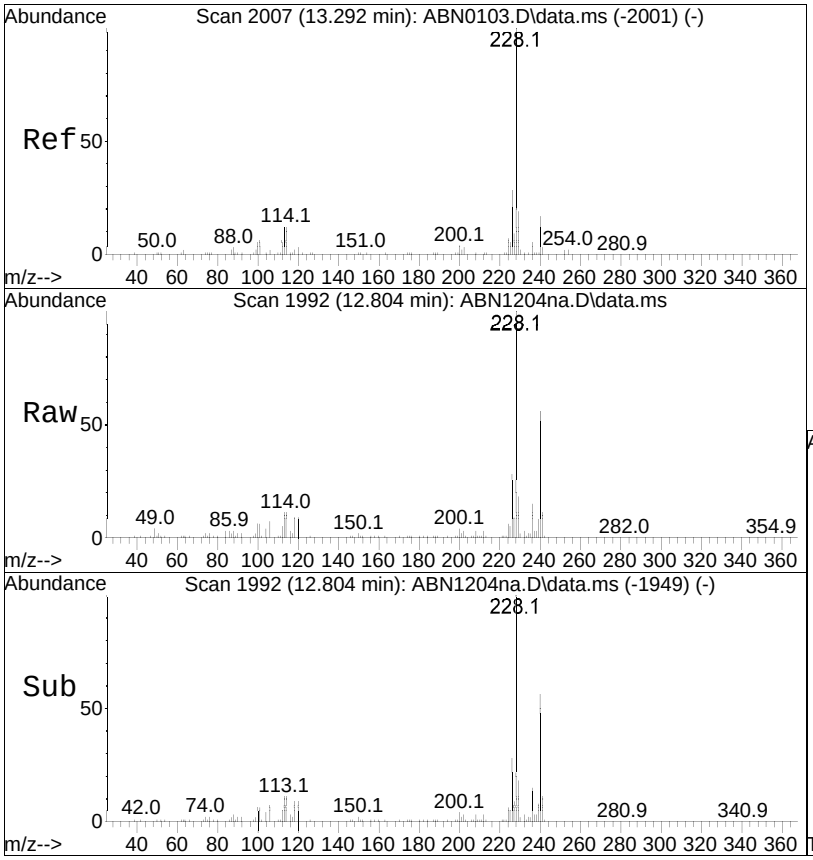


#96
Butyl benzyl phthalate
Concen: 4.73 ug/ml
RT: 12.368 min Scan# 1918
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:149 Resp: 99390

Ion	Ratio	Lower	Upper
149	100		
91	73.9	63.3	94.9
206	14.6	13.9	20.9

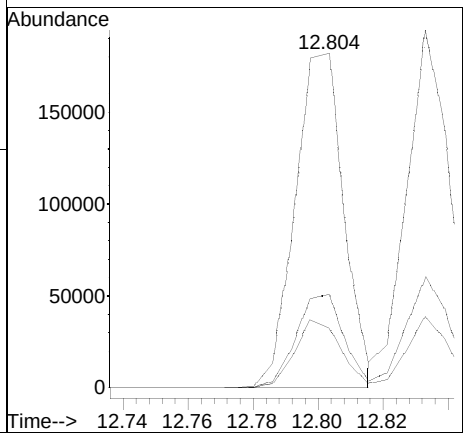


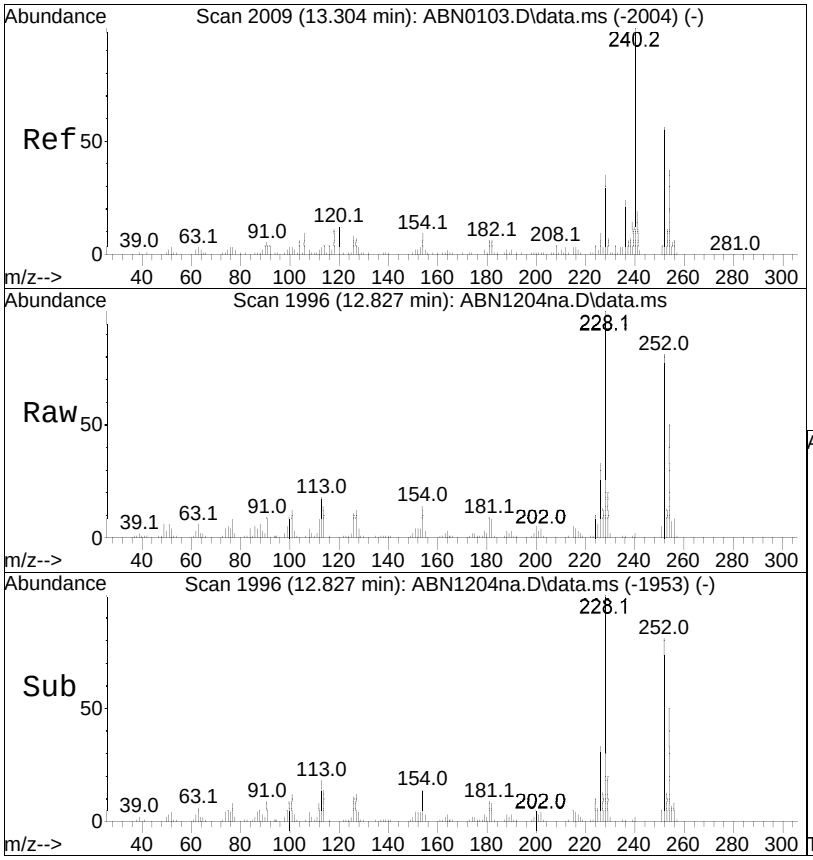


#104
Benzo(a)anthracene
Concen: 4.19 ug/ml
RT: 12.804 min Scan# 1992
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:228 Resp: 190069

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.2	33.4
229	19.4	15.6	23.4

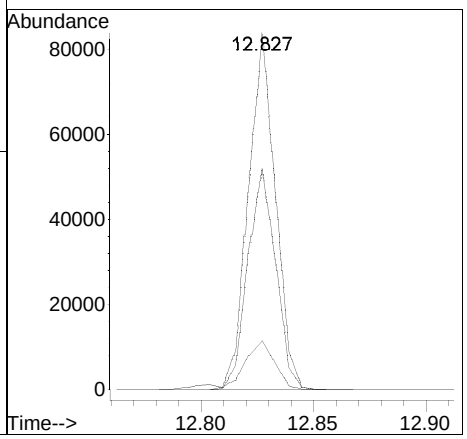


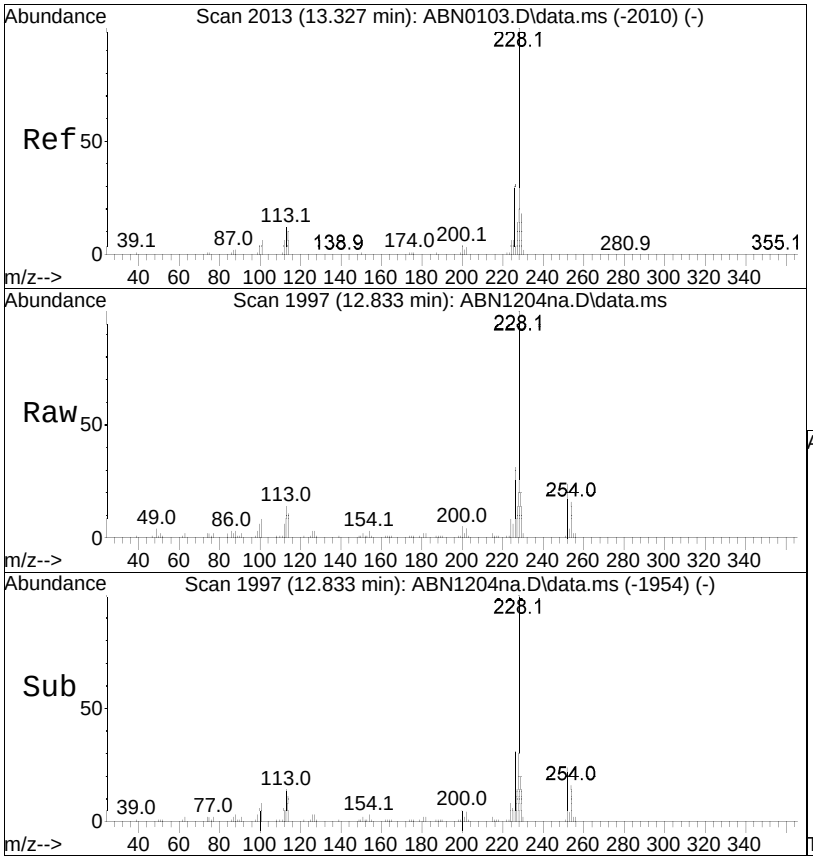


#105
3,3'-Dichlorobenzidine
Concen: 4.34 ug/ml
RT: 12.827 min Scan# 1996
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:252 Resp: 70008

Ion	Ratio	Lower	Upper
252	100		
126	16.8	14.5	21.7
254	63.9	51.2	76.8

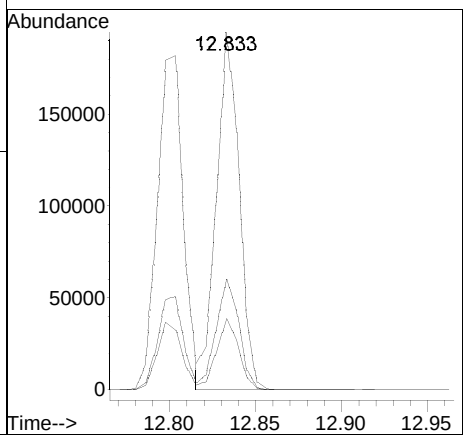


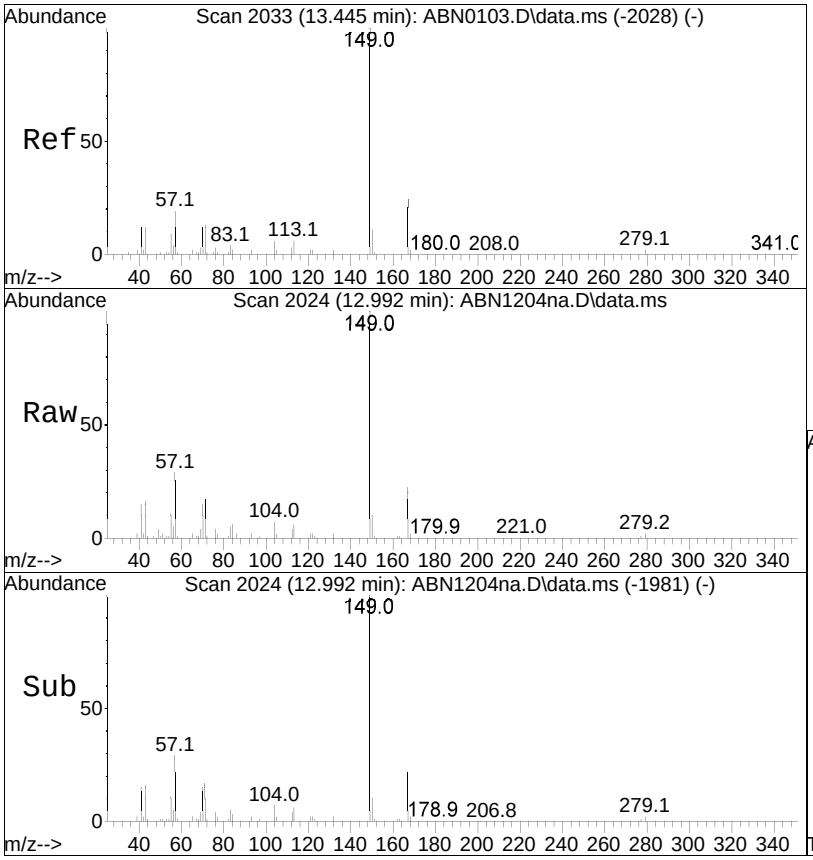


#106
Chrysene
Concen: 4.25 ug/ml
RT: 12.833 min Scan# 1997
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:228 Resp: 178879

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.0	36.0
229	19.4	15.8	23.8

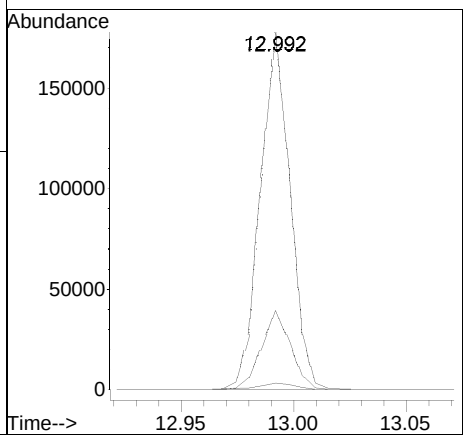


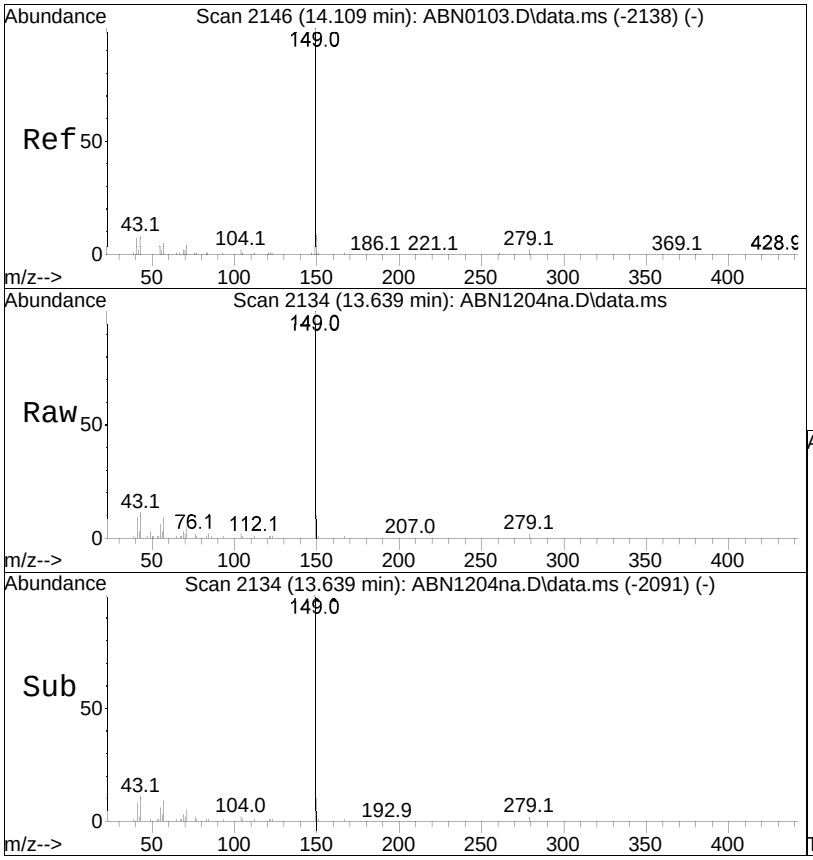


#107
Bis(2-ethylhexyl)phthalate
Concen: 5.31 ug/ml
RT: 12.992 min Scan# 2024
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:149 Resp: 161541

Ion	Ratio	Lower	Upper
149	100		
167	21.8	22.1	33.1#
279	2.0	3.0	4.4#

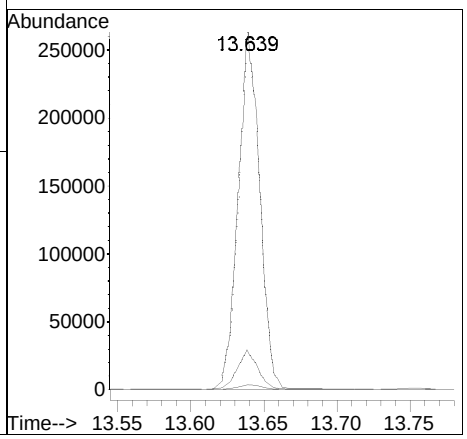


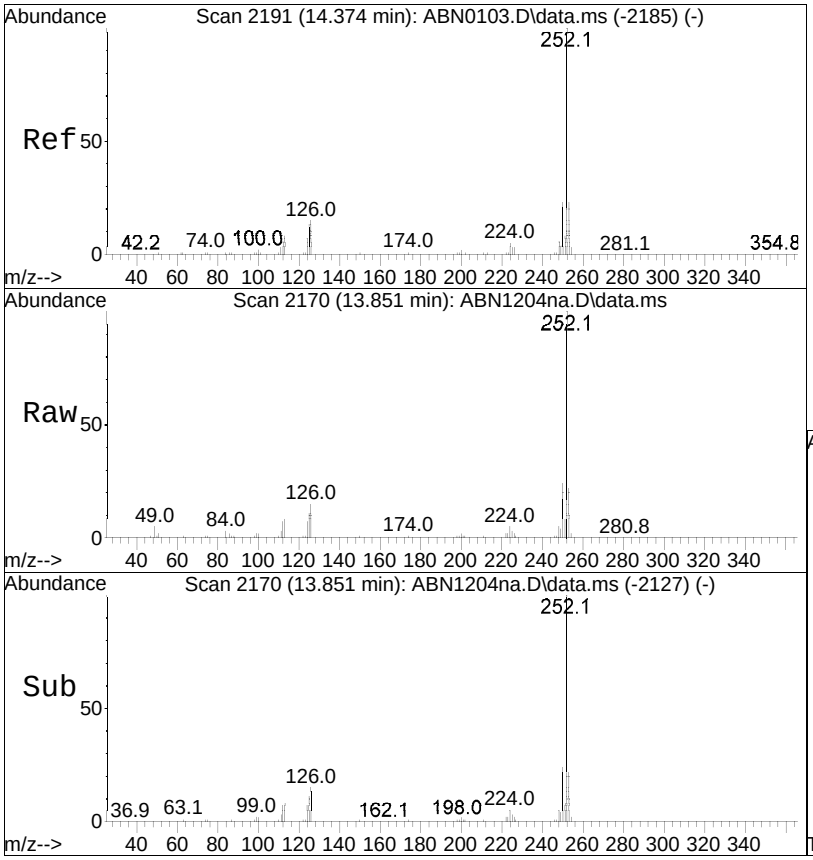


#108
Di-n-octylphthalate
Concen: 5.15 ug/ml
RT: 13.639 min Scan# 2134
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:149 Resp: 264278

Ion	Ratio	Lower	Upper
149	100		
43	10.8	18.8	28.2#
167	1.3	1.3	1.9

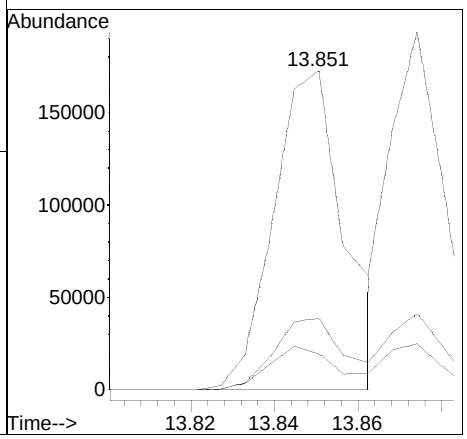


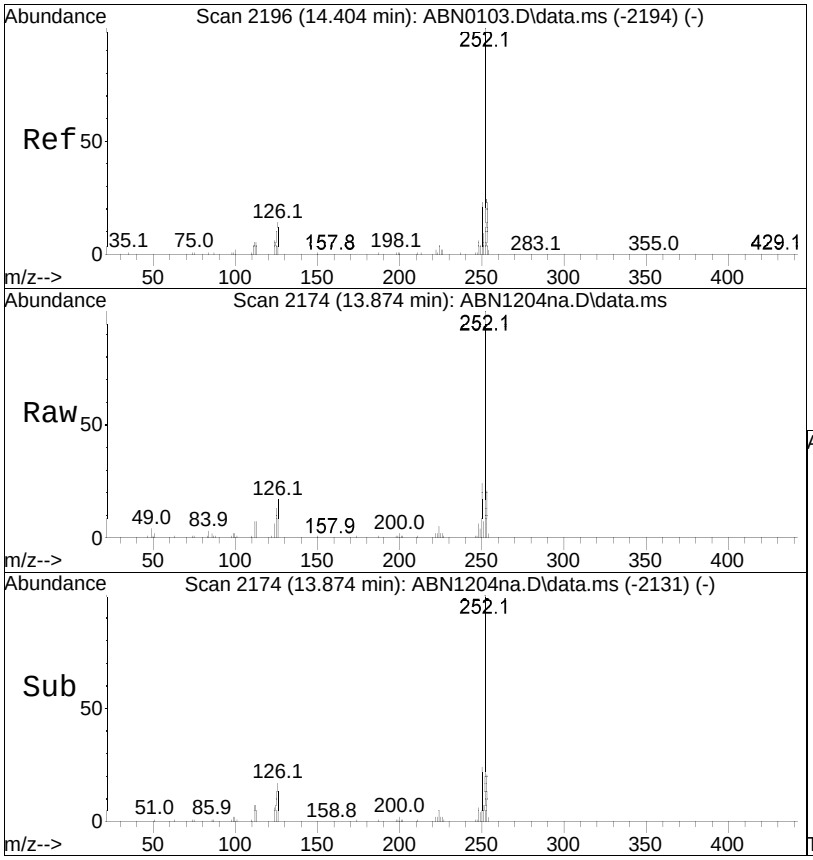


#109
Benzo(b)fluoranthene
Concen: 4.69 ug/ml M3
RT: 13.851 min Scan# 2170
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:252 Resp: 203303

Ion	Ratio	Lower	Upper
252	100		
125	12.5	13.3	19.9#
253	18.1	17.1	25.7

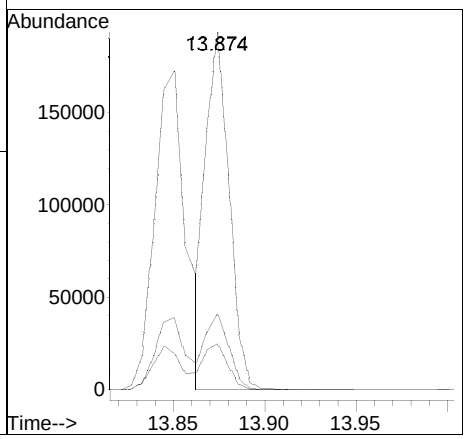


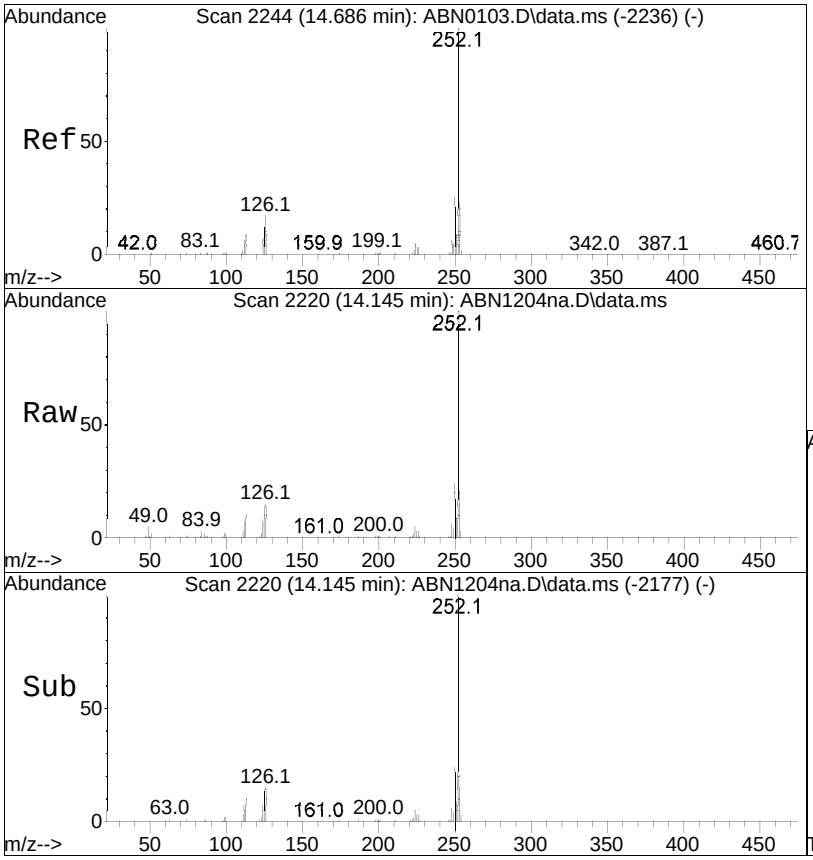


#110
Benzo(k)fluoranthene
Concen: 4.13 ug/ml
RT: 13.874 min Scan# 2174
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:252 Resp: 171473

Ion	Ratio	Lower	Upper
252	100		
125	14.8	13.0	19.6
253	21.4	16.8	25.2

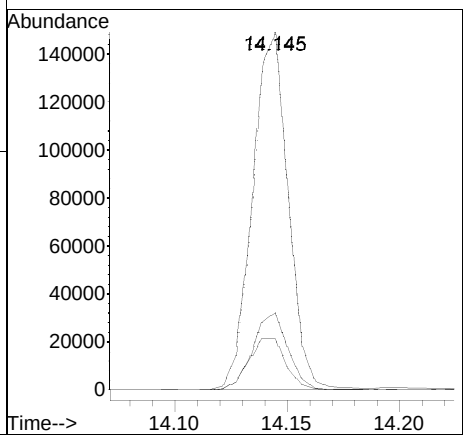


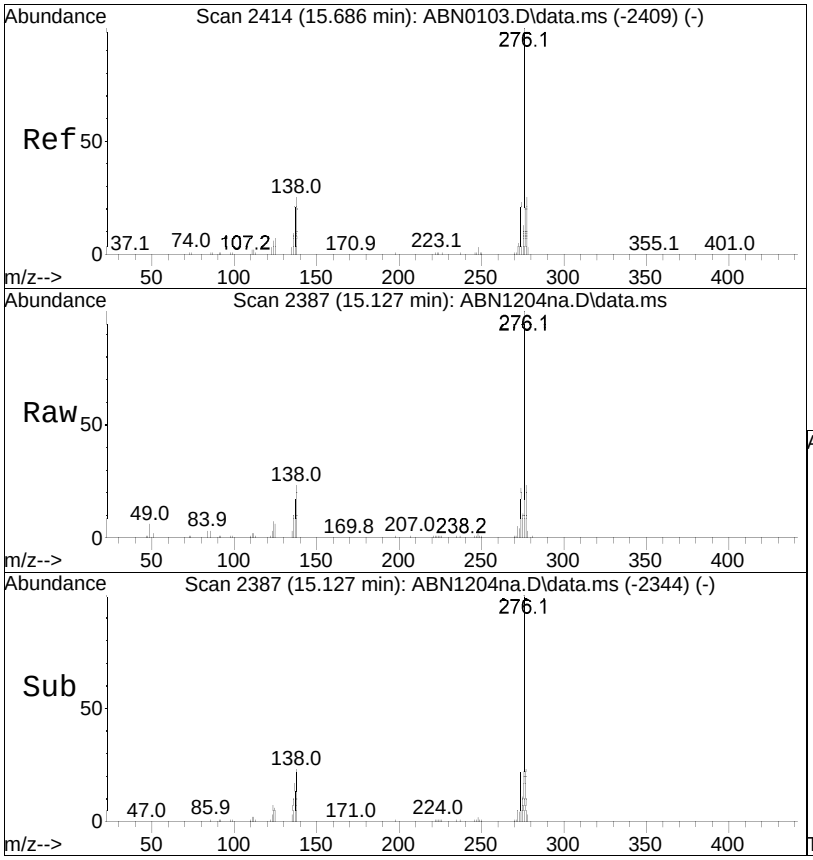


#111
Benzo(a)pyrene
Concen: 4.39 ug/ml
RT: 14.145 min Scan# 2220
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:252 Resp: 162676

Ion	Ratio	Lower	Upper
252	100		
125	15.2	14.2	21.2
253	21.4	16.9	25.3

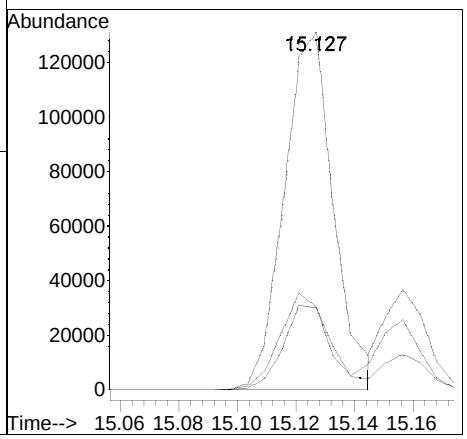


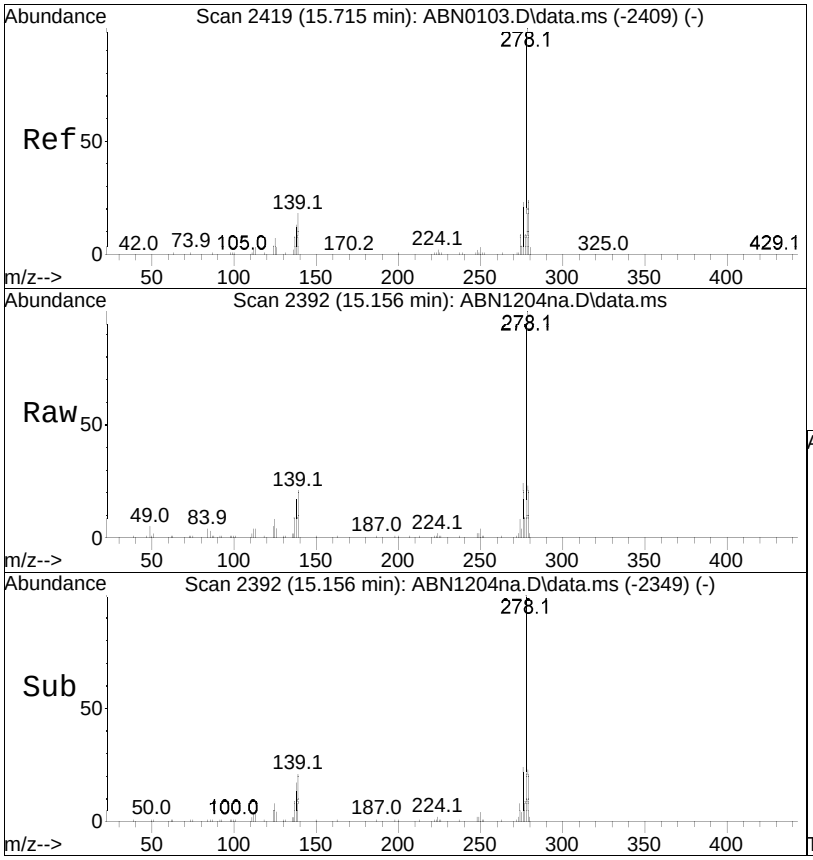


#113
Indeno(1,2,3-cd)pyrene
Concen: 4.33 ug/mL
RT: 15.127 min Scan# 2387
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:276 Resp: 152597

Ion	Ratio	Lower	Upper
276	100		
138	26.0	25.1	37.7
277	24.3	18.6	28.0

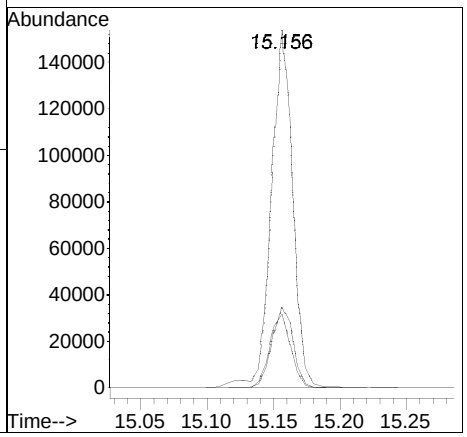


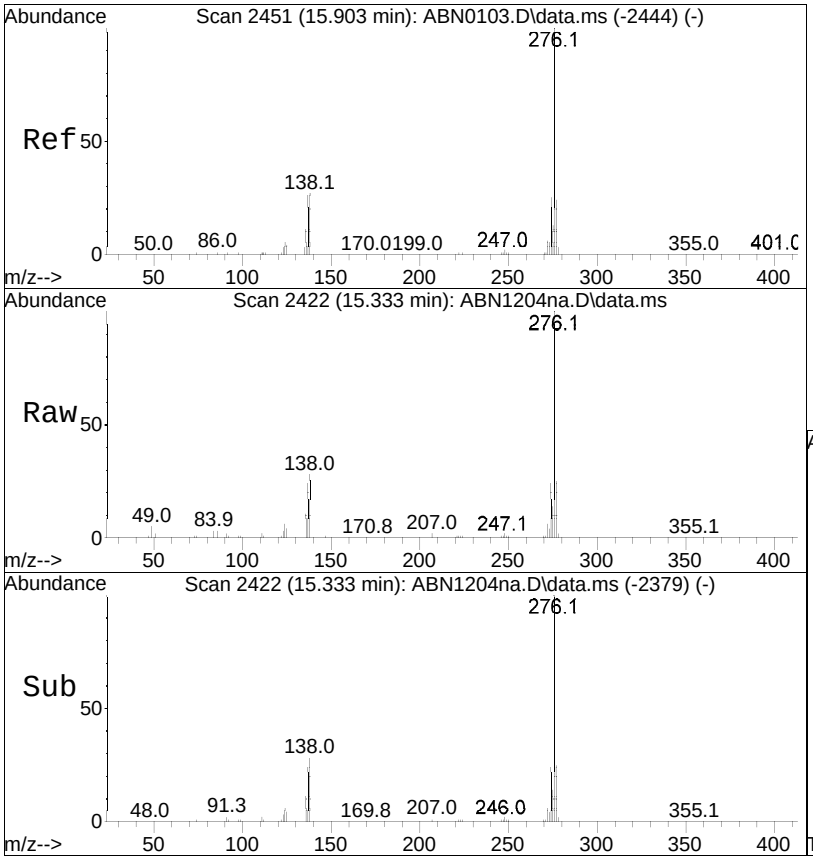


#114
Dibenzo(a,h)anthracene
Concen: 4.52 ug/ml
RT: 15.156 min Scan# 2392
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:278 Resp: 170457

Ion	Ratio	Lower	Upper
278	100		
139	20.6	20.8	31.2#
279	22.8	18.3	27.5

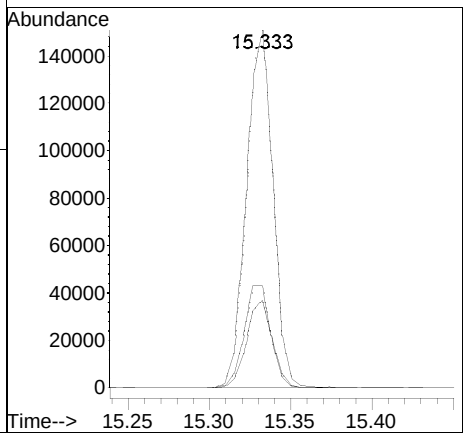




#115
Benzo(ghi)perylene
Concen: 4.54 ug/ml
RT: 15.333 min Scan# 2422
Delta R.T. 0.000 min
Lab File: ABN1204na.D
Acq: 4 Dec 2023 11:25 pm

Tgt Ion:276 Resp: 169822

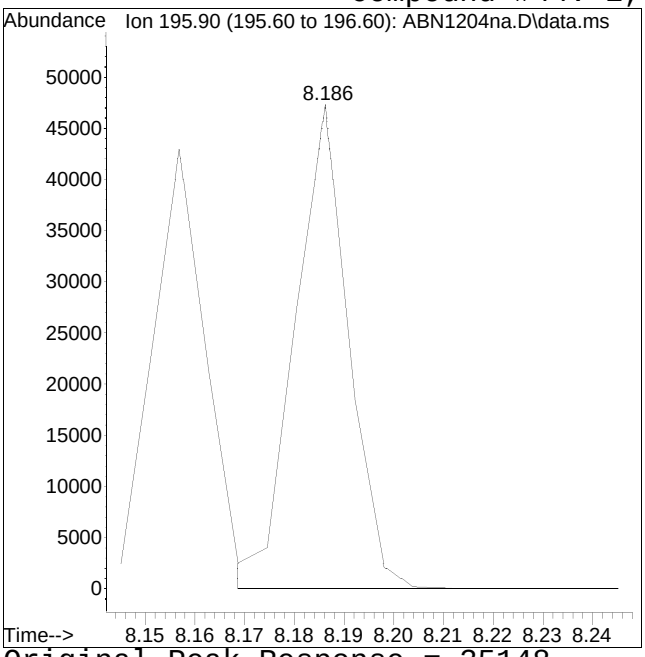
Ion	Ratio	Lower	Upper
276	100		
138	29.0	29.2	43.8#
277	24.1	18.8	28.2

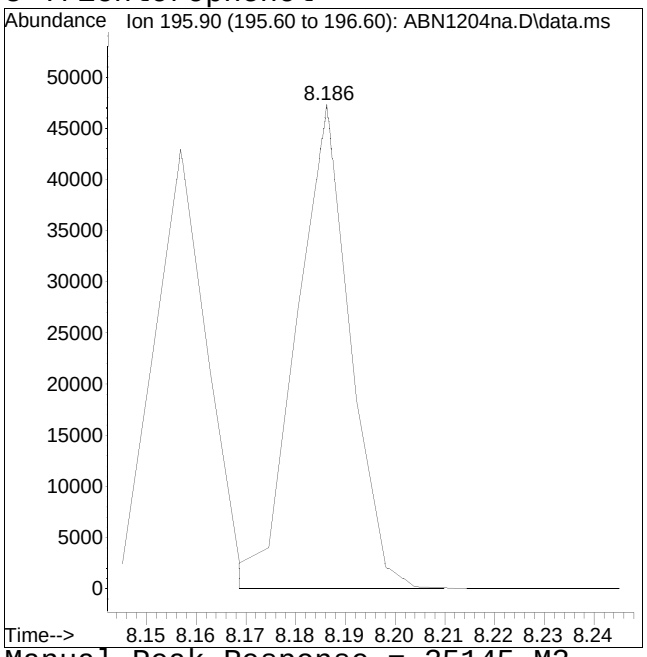


Manual Integration Report

Data Path : I:\8270\SV106\231204nalvi\QMethod : FS230902SV106.m
Data File : ABN1204na.D Operator : SV106:sz
Date Inj'd : 12/4/2023 11:25 pm Instrument : SV 106
Sample : wg1859682-3,32,,ABN LVI CCQuant Date : 12/4/2023 11:52 pm

Compound #44: 2,4,5-Trichlorophenol





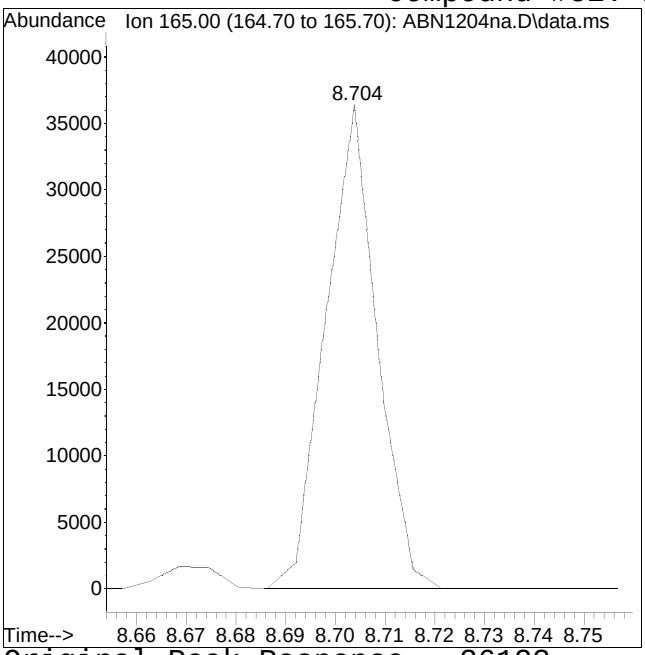
Original Peak Response = 35148 Manual Peak Response = 35145 M3

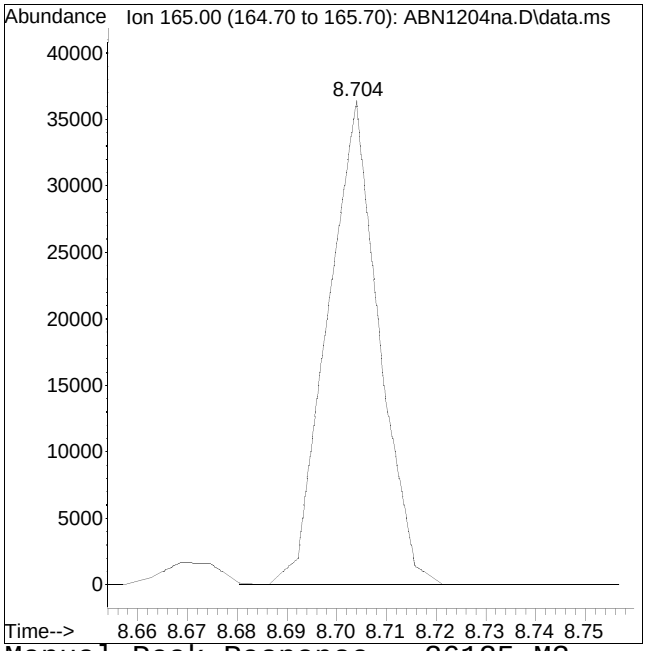
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\231204nalvi\QMethod : FS230902SV106.m
Data File : ABN1204na.D Operator : SV106:sz
Date Inj'd : 12/4/2023 11:25 pm Instrument : SV 106
Sample : wg1859682-3,32,,ABN LVI CCQuant Date : 12/4/2023 11:52 pm

Compound #52: 2,6-Dinitrotoluene





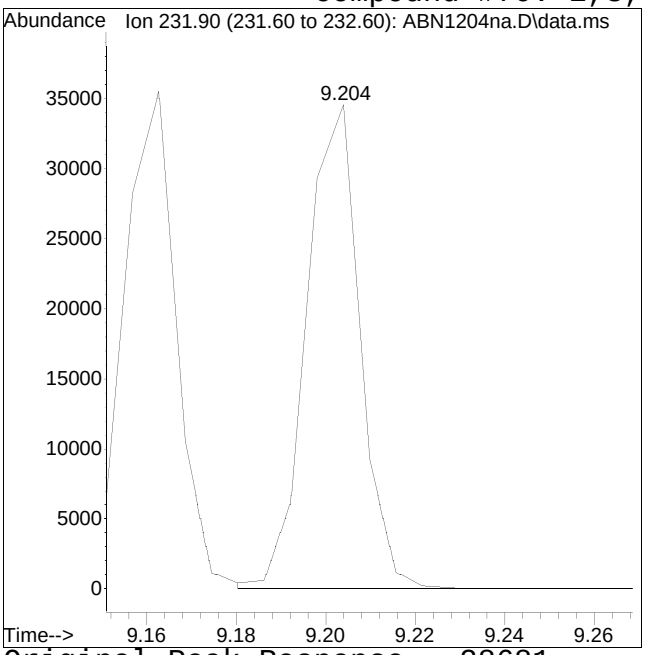
Original Peak Response = 26123 Manual Peak Response = 26125 M3

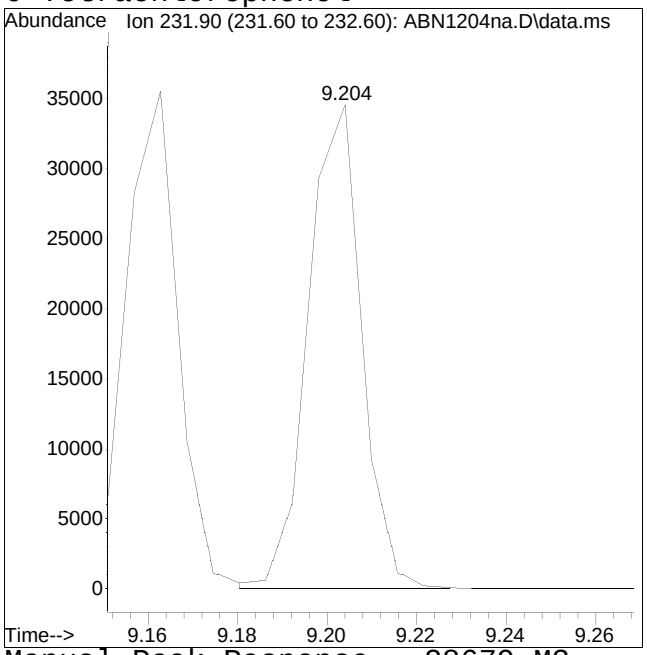
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\231204nalvi\QMethod : FS230902SV106.m
Data File : ABN1204na.D Operator : SV106:sz
Date Inj'd : 12/4/2023 11:25 pm Instrument : SV 106
Sample : wg1859682-3,32,,ABN LVI CCQuant Date : 12/4/2023 11:52 pm

Compound #70: 2,3,4,6-Tetrachlorophenol





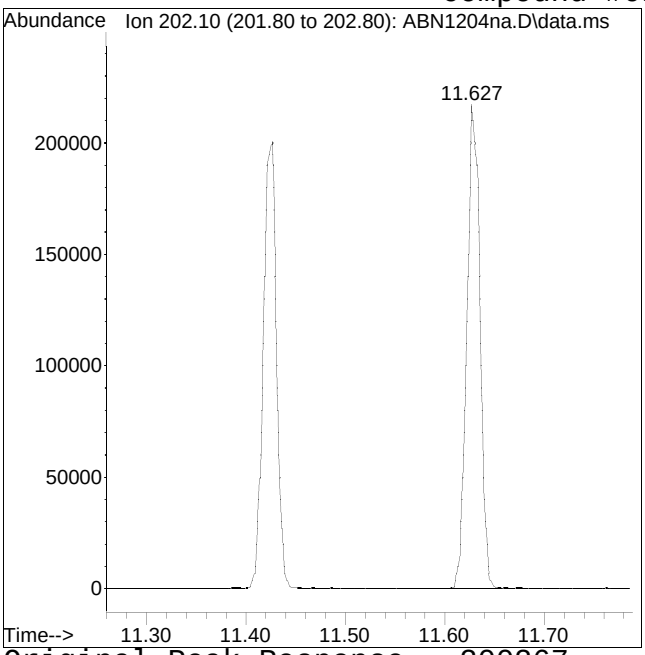
Original Peak Response = 28681 Manual Peak Response = 28679 M3

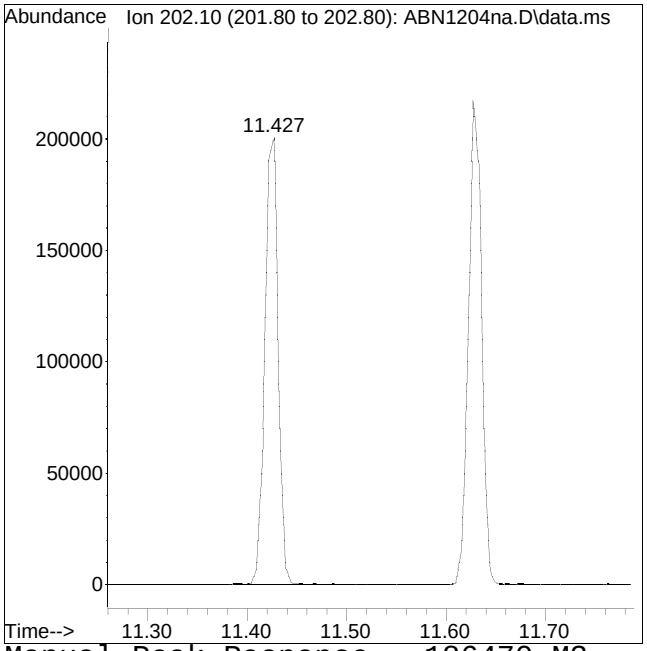
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\231204nalvi\QMethod : FS230902SV106.m
Data File : ABN1204na.D Operator : SV106:sz
Date Inj'd : 12/4/2023 11:25 pm Instrument : SV 106
Sample : wg1859682-3,32,,ABN LVI CCQuant Date : 12/4/2023 11:52 pm

Compound #92: Fluoranthene





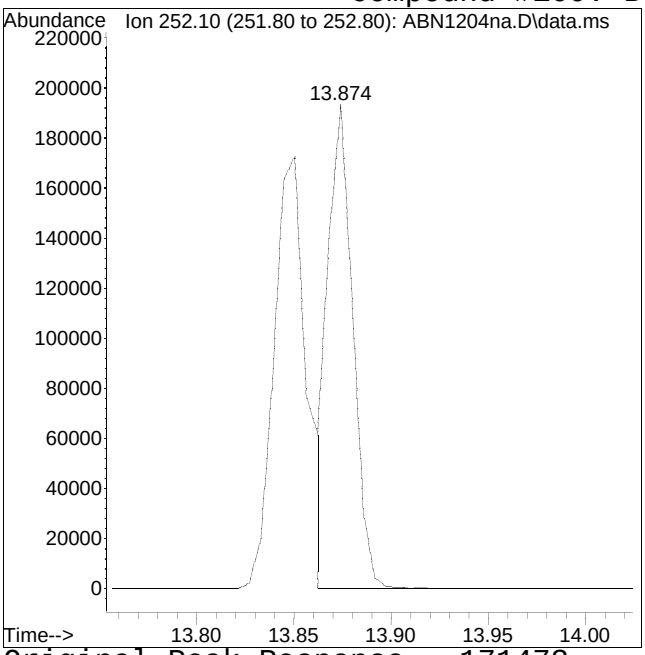
Original Peak Response = 200267 Manual Peak Response = 186470 M3

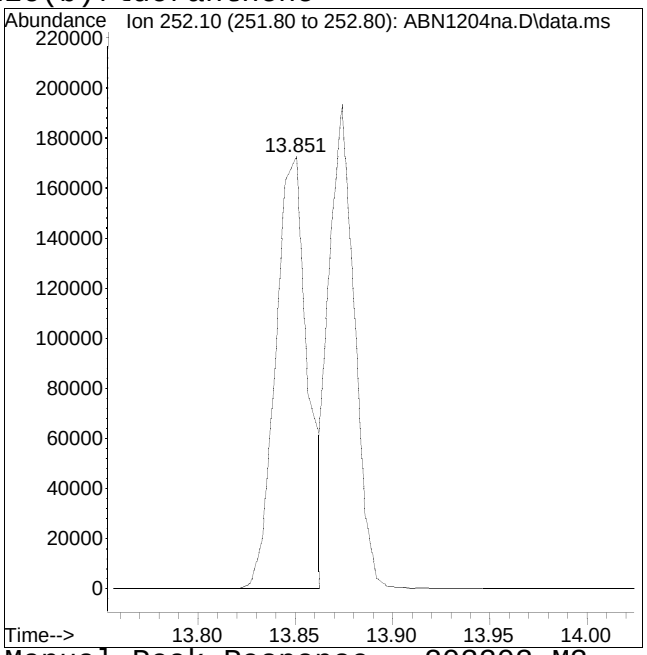
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV106\231204nalvi\QMethod : FS230902SV106.m
Data File : ABN1204na.D Operator : SV106:sz
Date Inj'd : 12/4/2023 11:25 pm Instrument : SV 106
Sample : wg1859682-3,32,,ABN LVI CCQuant Date : 12/4/2023 11:52 pm

Compound #109: Benzo(b)fluoranthene





Original Peak Response = 171473 Manual Peak Response = 203303 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\231204nalvi\
Data File : AP91204na.D
Acq On : 4 Dec 2023 11:49 pm
Operator : SV106:sz
Sample : wg1859682-4,32,,AP9 LVI CCV Lot # 10181
Misc : wg1859682,,ical20337
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 05 00:10:35 2023
Quant Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 00:10:15 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	95	0.00
28	T	Benzaldehyde		0.928	1.078	-16.2	79	0.00
29	T	Acetophenone		1.994	1.917	3.9	70	0.00
30	T	m-Toluidine		1.550	1.800	-16.1	78	0.00
31	T	2-Chloroaniline		1.670	1.602	4.1	69	0.00
54	I	IS2_Naphthalene-d8		1.000	1.000	0.0	100	0.00
55	T	a-Terpineol		0.289	0.309	-6.9	82	0.00
56	T	3-Chloroaniline		0.150	0.156	-4.0	77	0.00
57	T	2,6-Dichlorophenol		0.277	0.275	0.7	73	0.00
58	T	1-chloro-2-nitrobenzene		0.131	0.144	-9.9	82	0.00
59	T	Caprolactam		0.147	0.162	-10.2	81	0.00
60	T	1,2,4,5-Tetrachlorobenzene		0.348	0.299	14.1	67	0.00
61	T	Biphenyl		0.856	0.772	9.8	69	0.00
82	I	IS2_Acenaphthene-d10		1.000	1.000	0.0	108	0.00
83	T	Dichloran	*	5.000	5.549	-11.0	95	0.00
84	T	Pentachloronitrobenzene	*	5.000	5.613	-12.3	92	0.00
97	I	IS2_Phenanthrene-d10		1.000	1.000	0.0	109	0.00
98	T	Diphenamid		0.508	0.469	7.7	73	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : AP91204na.D
Acq On : 4 Dec 2023 11:49 pm
Operator : SV106:sz
Sample : wg1859682-4,32,,AP9 LVI CCV Lot # 10181
Misc : wg1859682,,ical20337
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 05 00:10:35 2023
Quant Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 00:10:15 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
27) IS2_1,4-Dichlorobenzen...	5.528	152	42220	4.000	ug/ml		0.00
54) IS2_Naphthalene-d8	7.087	136	169210	4.000	ug/ml	#	0.00
82) IS2_Acenaphthene-d10	8.857	164	97131	4.000	ug/ml		0.00
97) IS2_Phenanthrene-d10	10.269	188	199002	4.000	ug/ml	#	0.00
System Monitoring Compounds							
Target Compounds							Qvalue
28) Benzaldehyde	4.781	105	56879	5.805	ug/ml		99
29) Acetophenone	6.122	105	101148	4.806	ug/ml	#	83
30) m-Toluidine	6.234	106	94999	5.807	ug/ml		95
31) 2-Chloroaniline	6.663	127	84563	4.796	ug/ml		96
55) a-Terpineol	7.192	59	65342	5.350	ug/ml		88
56) 3-Chloroaniline	7.198	65	32988	5.185	ug/ml		80
57) 2,6-Dichlorophenol	7.222	162	58228	4.976	ug/ml		91
58) 1-chloro-2-nitrobenzene	7.492	111	30500	5.502	ug/ml	#	1
59) Caprolactam	7.545	55	34266	5.524	ug/ml	#	74
60) 1,2,4,5-Tetrachloroben...	8.022	216	63179	4.293	ug/ml		98
61) Biphenyl	8.328	154	163202	4.508	ug/ml		98
83) Dichloran	9.986	206	18318	5.549	ug/ml		92
84) Pentachloronitrobenzene	10.127	237	23073	5.613	ug/ml	#	83
98) Diphenamid	11.198	167	116614	4.614	ug/ml		91

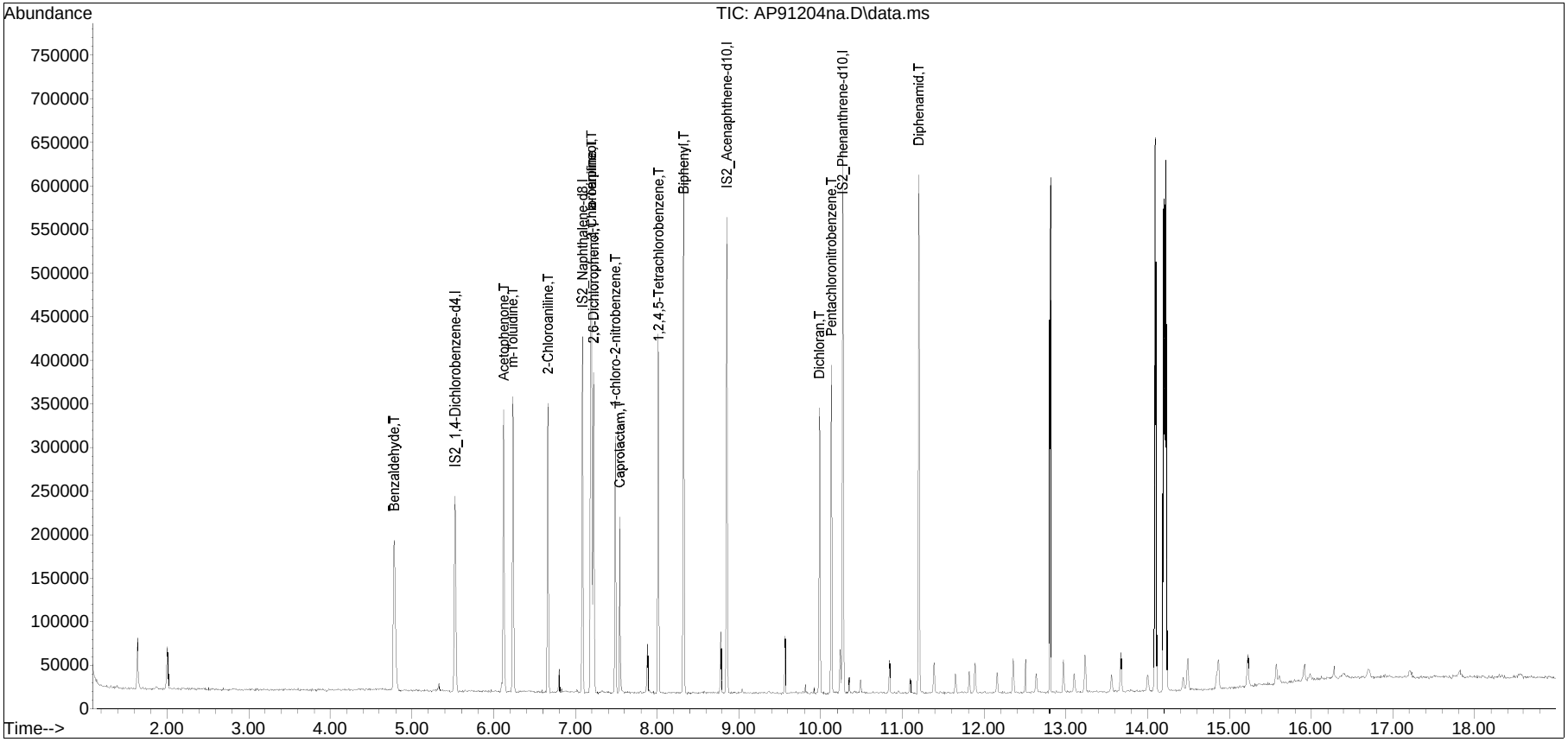
(#) = qualifier out of range (m) = manual integration (+) = signals summed

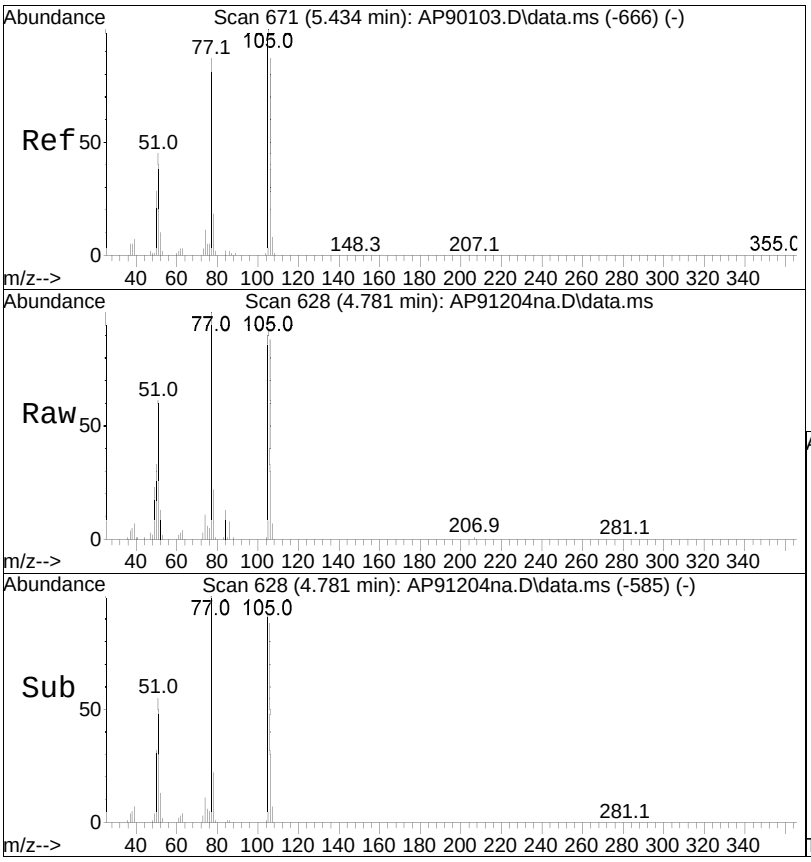
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : AP91204na.D
Acq On : 4 Dec 2023 11:49 pm
Operator : SV106:sz
Sample : wg1859682-4,32,,AP9 LVI CCV Lot # 10181
Misc : wg1859682,,ical20337
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 05 00:10:35 2023
Quant Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 00:10:15 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

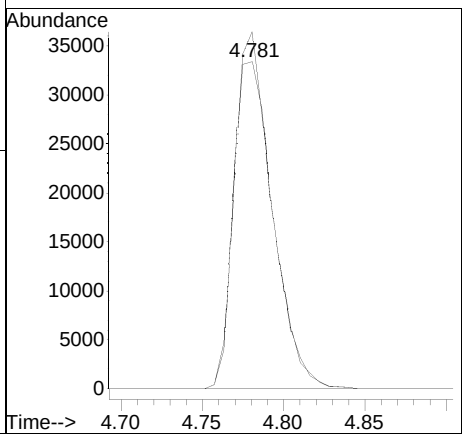


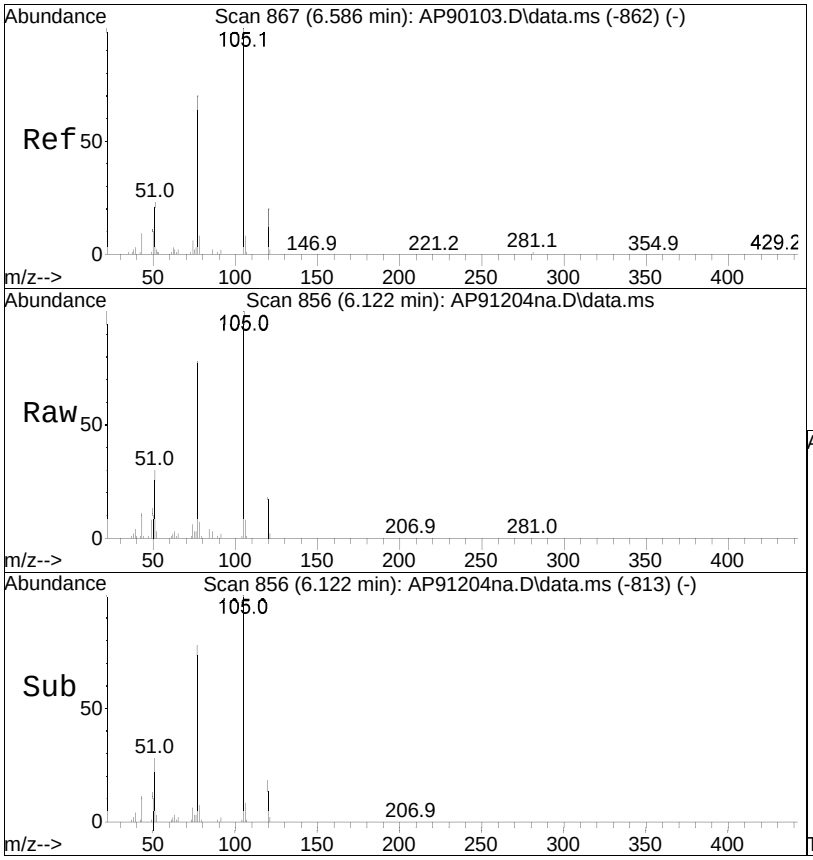


#28
Benzaldehyde
Concen: 5.81 ug/ml
RT: 4.781 min Scan# 628
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion:105 Resp: 56879

Ion	Ratio	Lower	Upper
105	100		
77	102.2	82.2	123.4

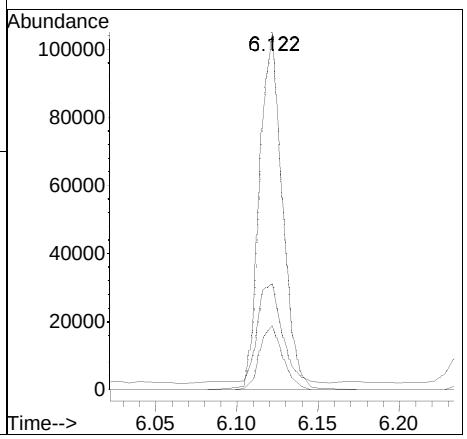


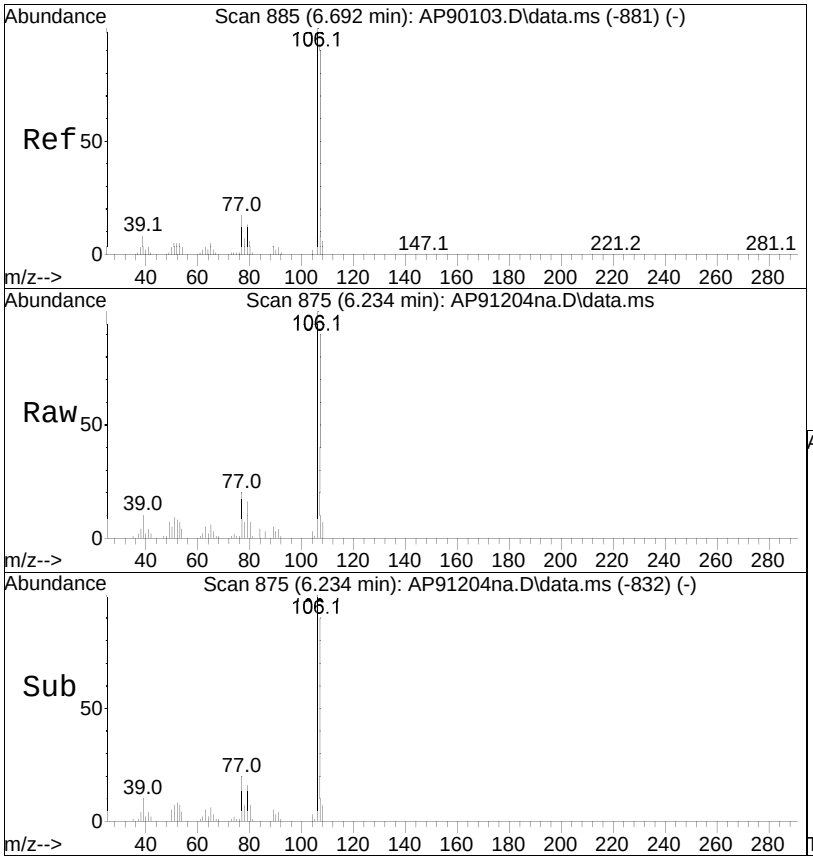


#29
Acetophenone
Concen: 4.81 ug/ml
RT: 6.122 min Scan# 856
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion:105 Resp: 101148

Ion	Ratio	Lower	Upper
105	100		
120	18.2	20.5	30.7#
51	31.7	34.9	52.3#

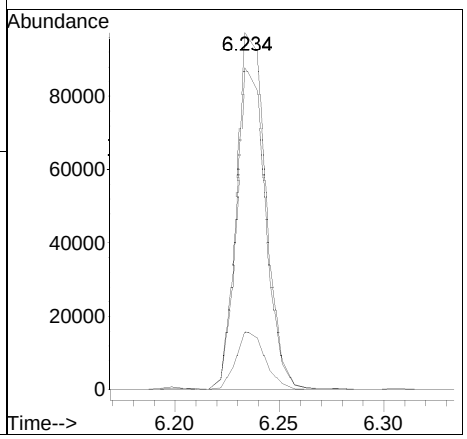


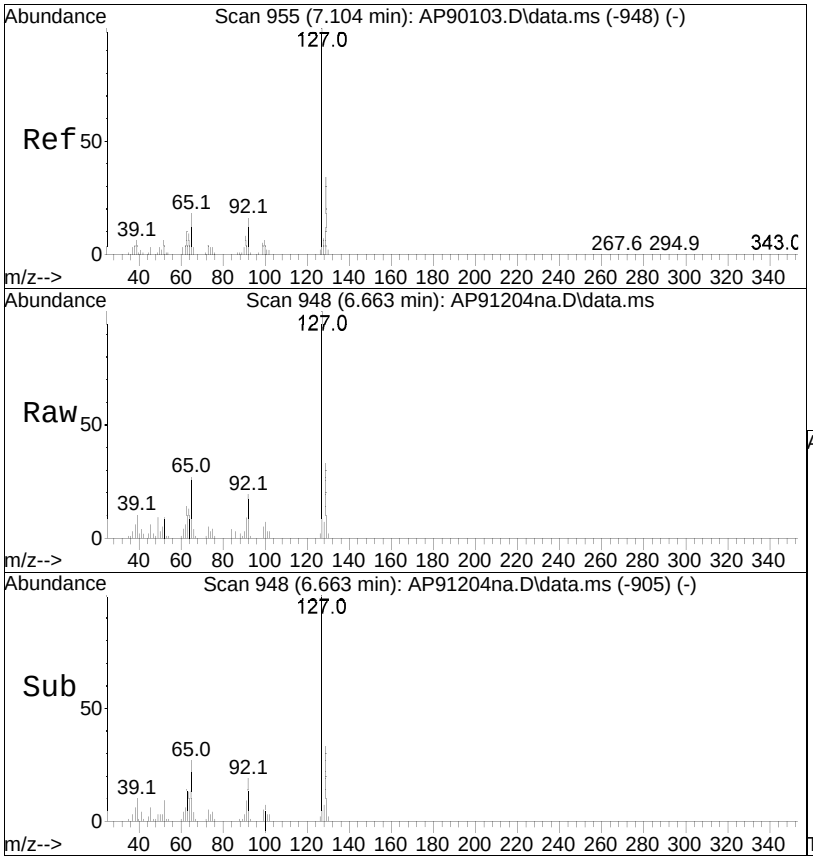


#30
m-Toluidine
Concen: 5.81 ug/ml
RT: 6.234 min Scan# 875
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion:106 Resp: 94999

Ion	Ratio	Lower	Upper
106	100		
107	88.9	75.7	113.5
79	16.1	11.8	17.8

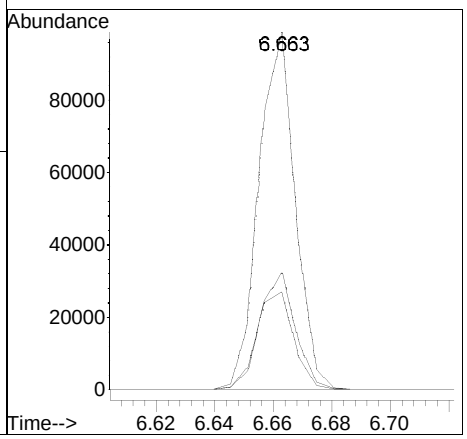


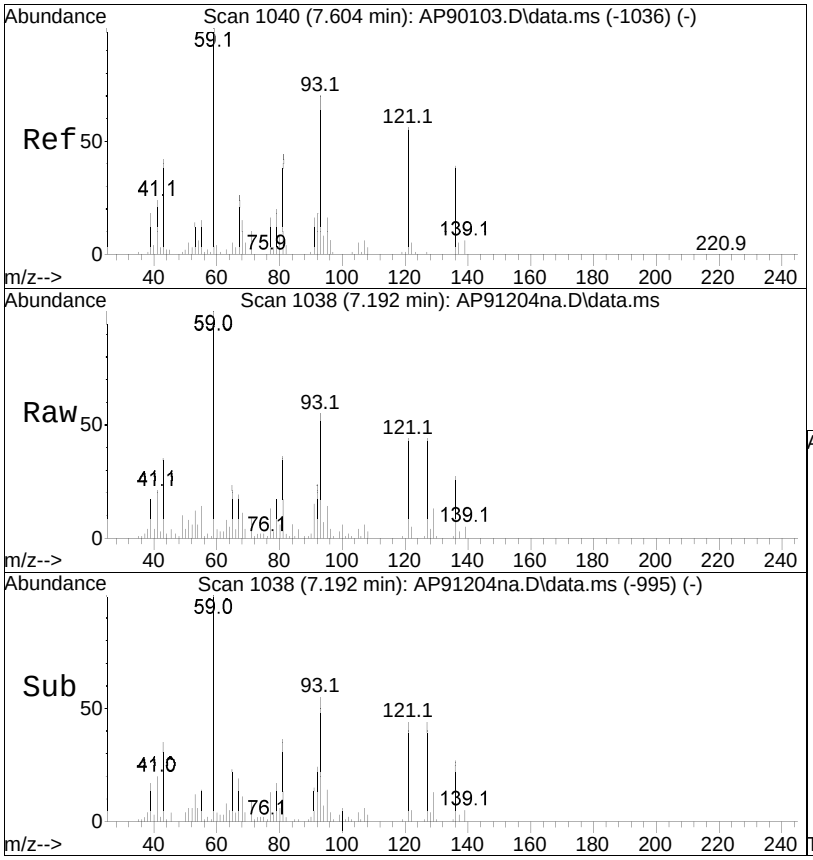


#31
2-Chloroaniline
Concen: 4.80 ug/ml
RT: 6.663 min Scan# 948
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion:127 Resp: 84563

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.9	38.9
65	28.2	26.3	39.5

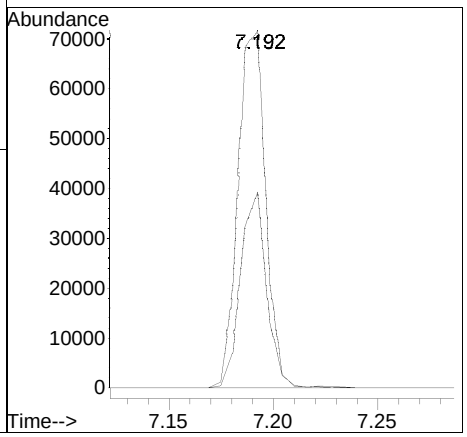


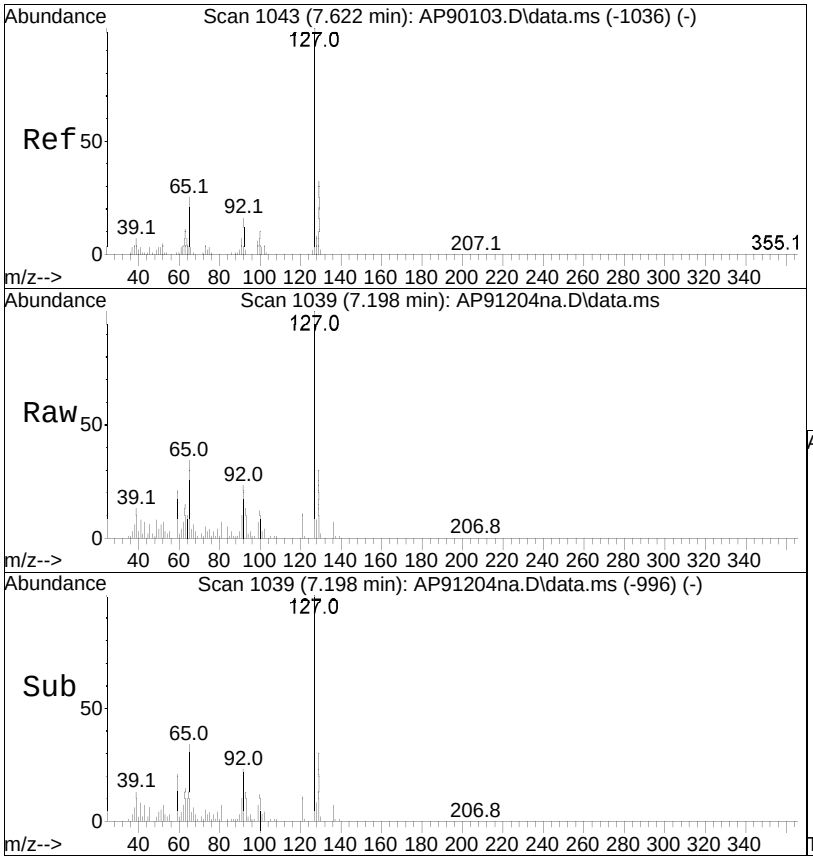


#55
a-Terpineol
Concen: 5.35 ug/ml
RT: 7.192 min Scan# 1038
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion: 59 Resp: 65342

Ion	Ratio	Lower	Upper
59	100		
93	52.1	35.6	53.4

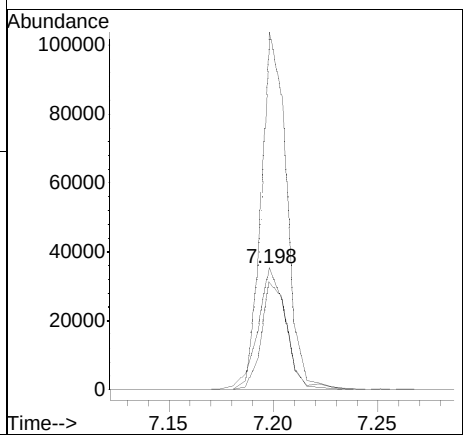


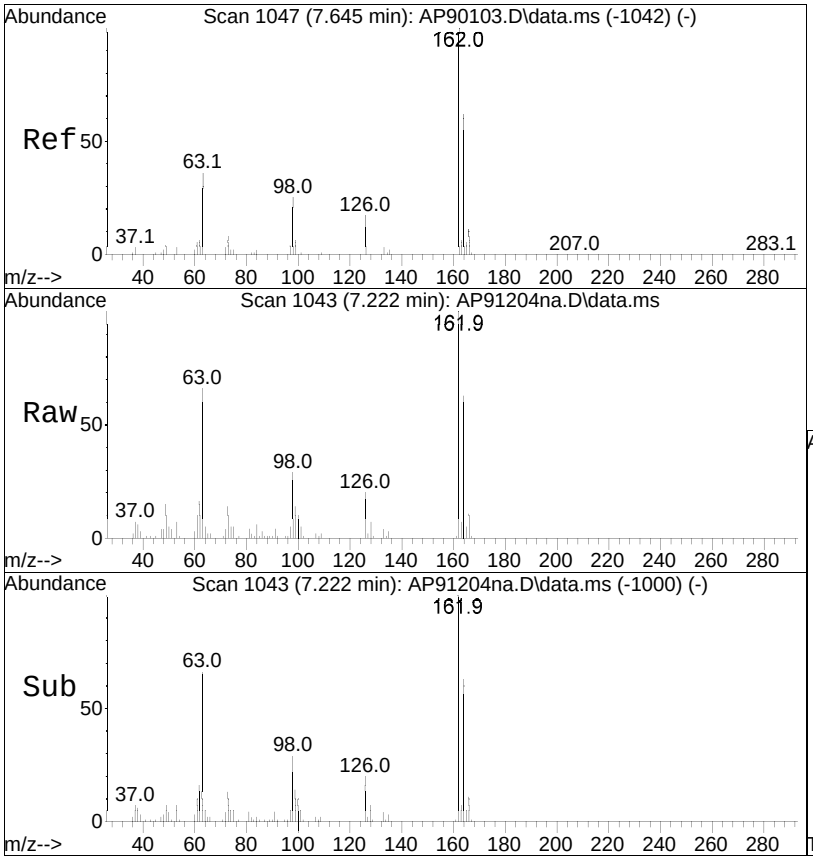


#56
3-Chloroaniline
Concen: 5.19 ug/ml
RT: 7.198 min Scan# 1039
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion: 65 Resp: 32988

Ion	Ratio	Lower	Upper
65	100		
127	262.4	243.2	364.8
129	81.3	78.8	118.2

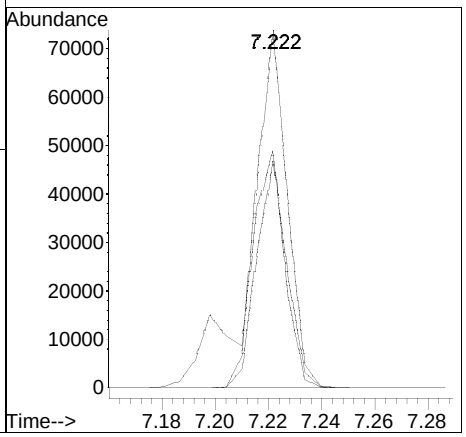


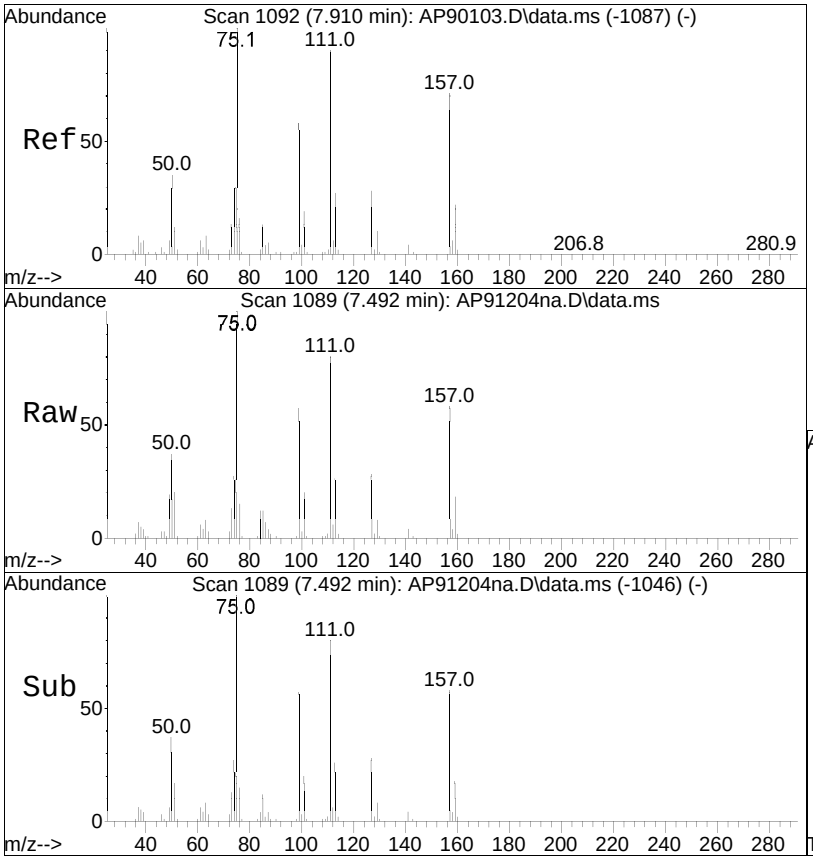


#57
2,6-Dichlorophenol
Concen: 4.98 ug/ml
RT: 7.222 min Scan# 1043
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion:162 Resp: 58228

Ion	Ratio	Lower	Upper
162	100		
164	63.4	51.1	76.7
63	89.4	60.8	91.2

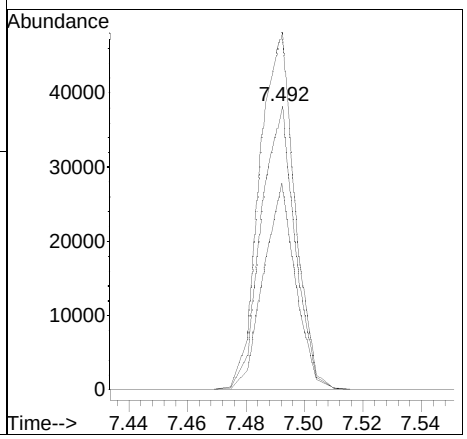


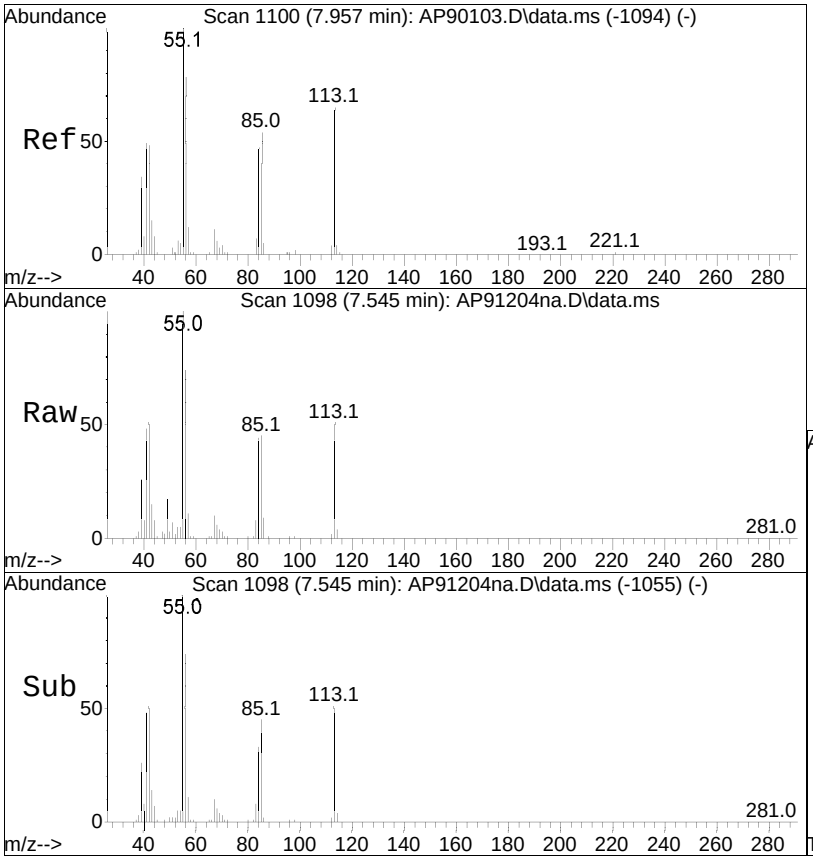


#58
1-chloro-2-nitrobenzene
Concen: 5.50 ug/ml
RT: 7.492 min Scan# 1089
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion:111 Resp: 30500

Ion	Ratio	Lower	Upper
111	100		
157	69.2	0.0	0.0#
75	131.1	28.2	42.2#

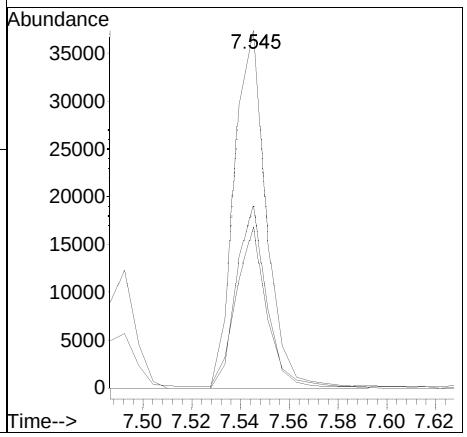


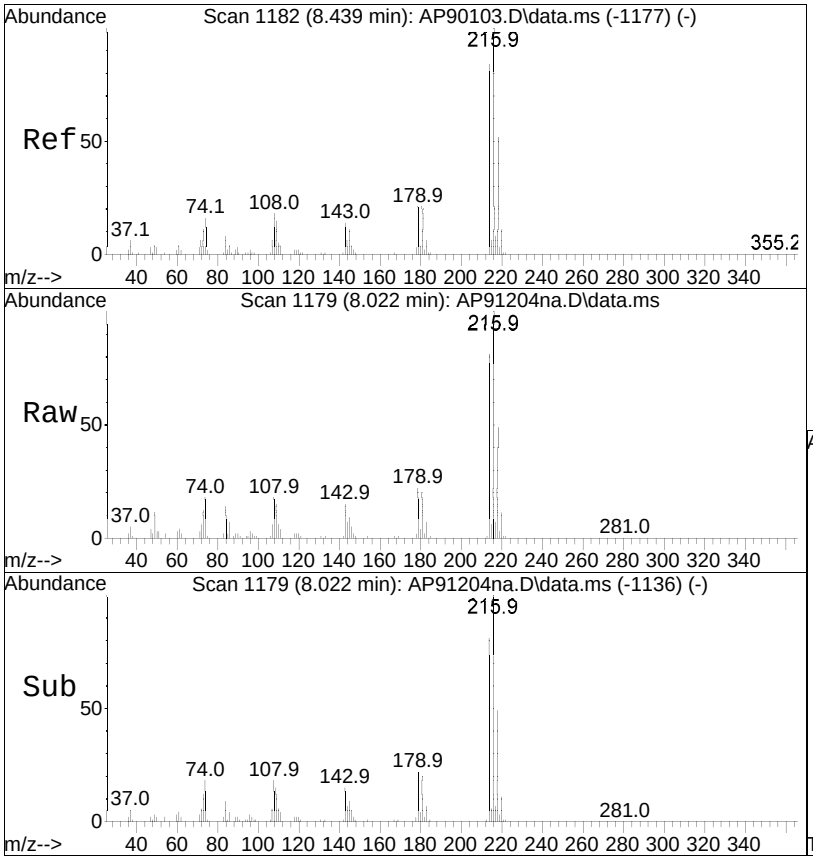


#59
Caprolactam
Concen: 5.52 ug/ml
RT: 7.545 min Scan# 1098
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion: 55 Resp: 34266

Ion	Ratio	Lower	Upper
55	100		
85	42.9	19.8	29.6#
113	48.1	29.6	44.4#

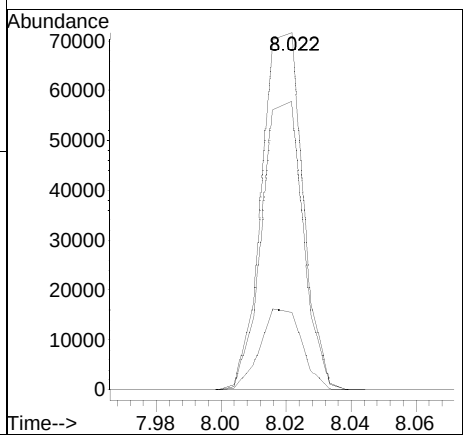


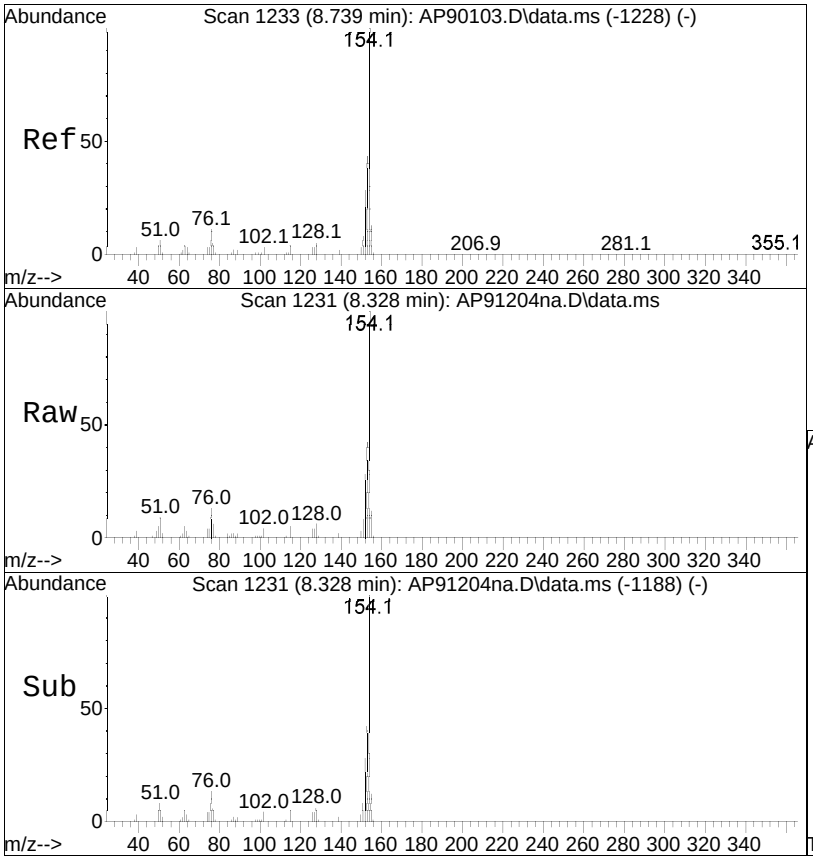


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.29 ug/ml
RT: 8.022 min Scan# 1179
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion:216 Resp: 63179

Ion	Ratio	Lower	Upper
216	100		
214	81.2	63.7	95.5
179	23.2	19.0	28.6

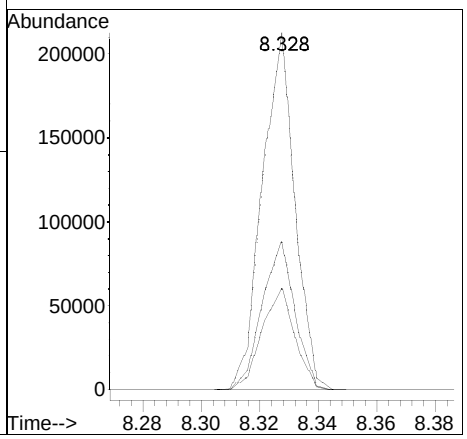


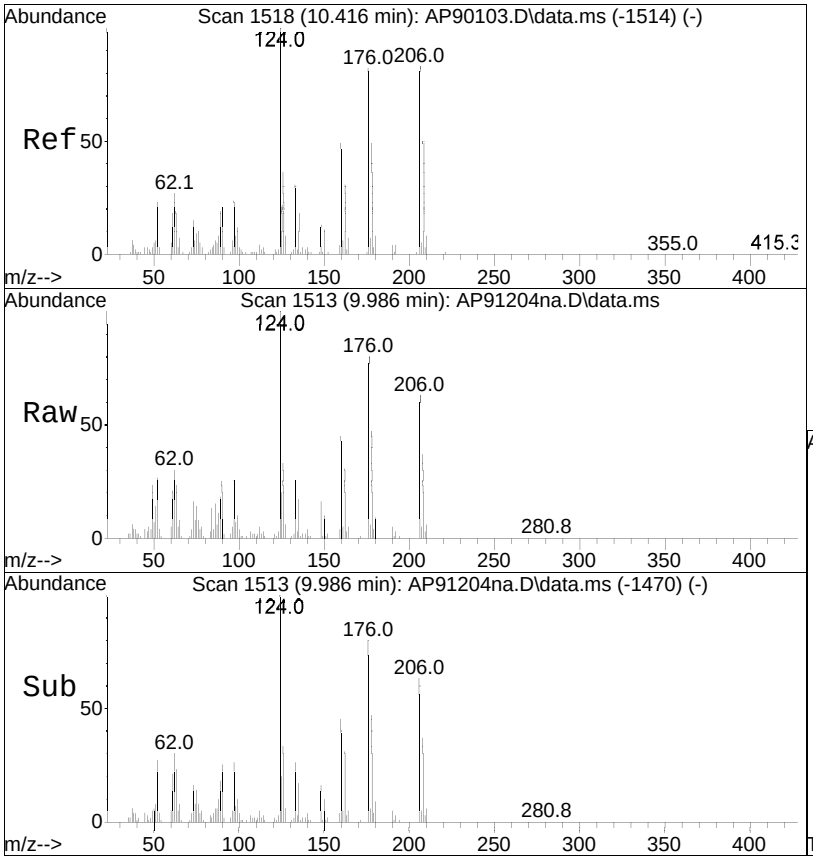


#61
Biphenyl
Concen: 4.51 ug/ml
RT: 8.328 min Scan# 1231
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion:154 Resp: 163202

Ion	Ratio	Lower	Upper
154	100		
153	42.1	32.3	48.5
152	29.1	22.5	33.7

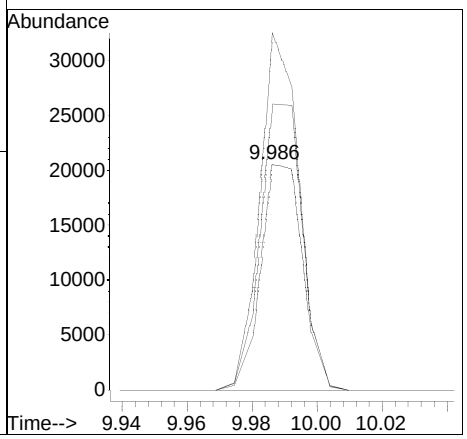


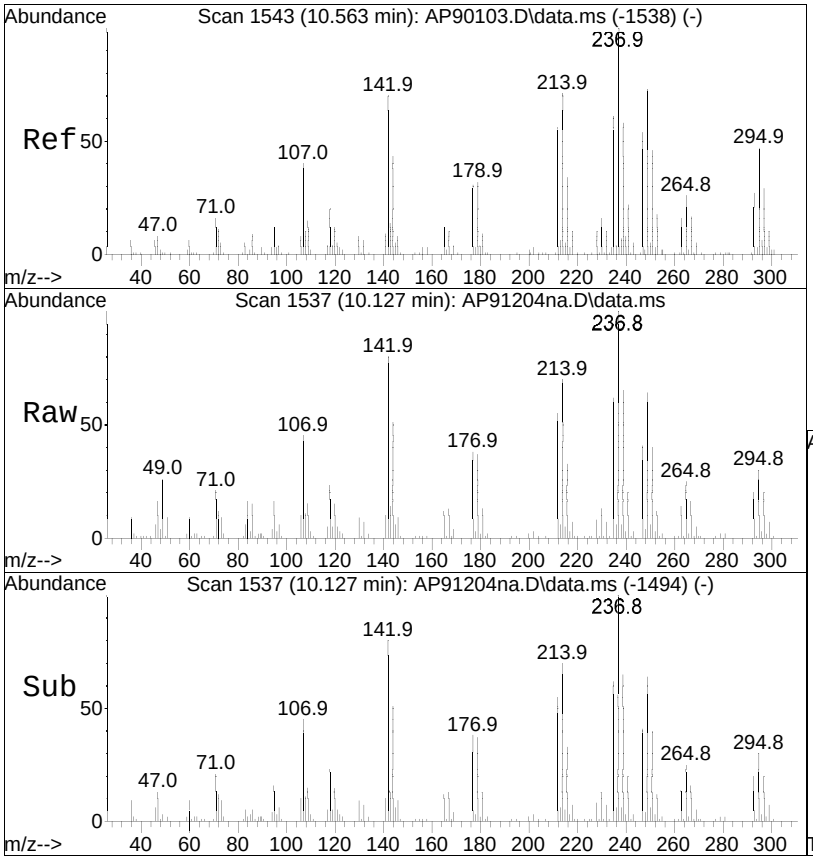


#83
Dichloran
Concen: 5.55 ug/ml
RT: 9.986 min Scan# 1513
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion:206 Resp: 18318

Ion	Ratio	Lower	Upper
206	100		
176	127.3	104.6	157.0
124	147.3	130.5	195.7

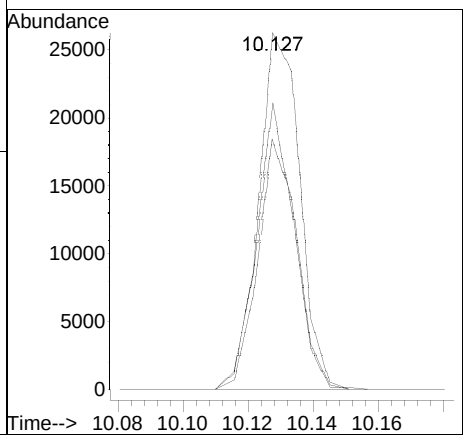


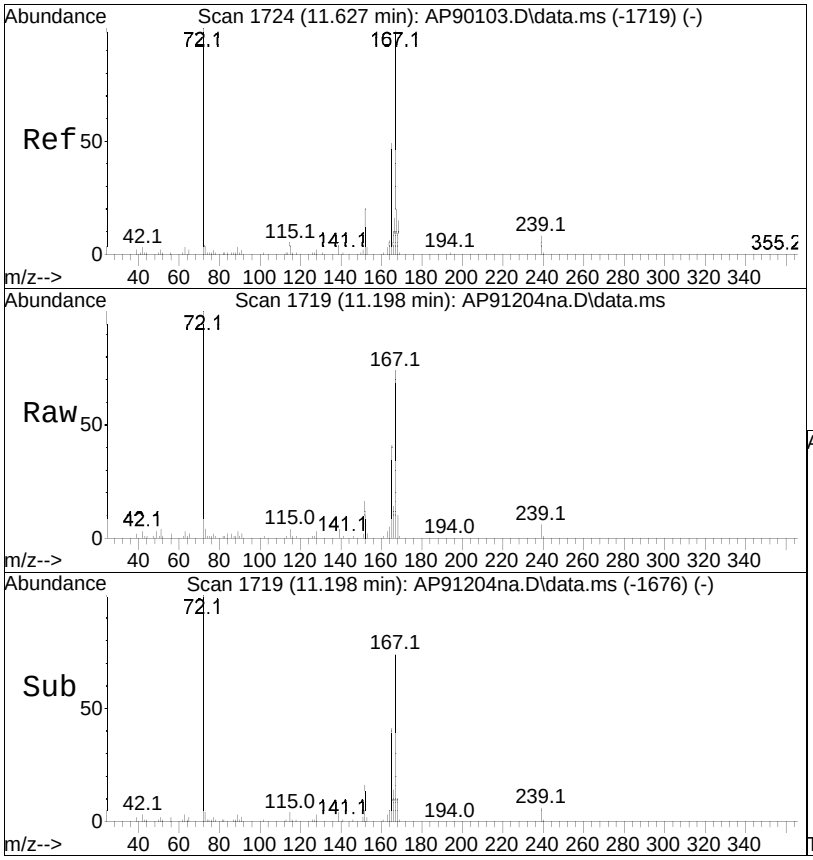


#84
Pentachloronitrobenzene
Concen: 5.61 ug/ml
RT: 10.127 min Scan# 1537
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion:237 Resp: 23073

Ion	Ratio	Lower	Upper
237	100		
142	72.9	77.0	115.4#
214	66.9	58.2	87.4

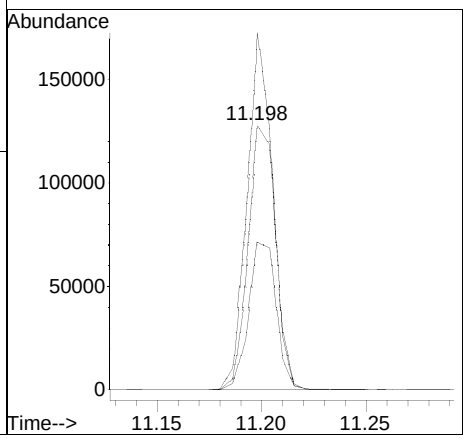




#98
Diphenamid
Concen: 4.61 ug/ml
RT: 11.198 min Scan# 1719
Delta R.T. 0.000 min
Lab File: AP91204na.D
Acq: 4 Dec 2023 11:49 pm

Tgt Ion:167 Resp: 116614

Ion	Ratio	Lower	Upper
167	100		
72	124.5	109.7	164.5
165	56.6	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV106\231204nalvi\	QMethod	: FS230902SV106.m
Data File	: AP91204na.D	Operator	: SV106:sz
Date Inj'd	: 12/4/2023 11:49 pm	Instrument	: SV 106
Sample	: wg1859682-4,32,,AP9 LVI CC	Quant Date	: 12/5/2023 0:10 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV106\231204nalvi\
Data File : ADP1204na.D
Acq On : 5 Dec 2023 12:13 am
Operator : SV106:sz
Sample : wg1859682-5,32,,ADP LVI CCV Lot # 10092
Misc : wg1859682,,ical20337
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 05 00:36:27 2023
Quant Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 00:36:09 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	97	0.00
33	T	n-Decane		1.347	1.434	-6.5	105	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	110	0.00
86	T	Atrazine		0.345	0.322	6.7	104	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	116	0.00
100	T	n-Octadecane		0.460	0.501	-8.9	124	0.00
101	T	Parathion		0.094	0.115	-22.3#	156	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	4.011	19.8	99	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : ADP1204na.D
Acq On : 5 Dec 2023 12:13 am
Operator : SV106:sz
Sample : wg1859682-5,32,,ADP LVI CCV Lot # 10092
Misc : wg1859682,,ical20337
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 05 00:36:27 2023
Quant Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 00:36:09 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	5.528	152	44154	4.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	8.857	164	100748	4.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	10.269	188	209251	4.000	ug/ml	# 0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	5.451	57	79169	5.324	ug/ml#	42
86) Atrazine	10.098	200	40552	4.671	ug/ml	91
100) n-Octadecane	10.316	57	130952	5.445	ug/ml#	1
101) Parathion	11.086	109	30066	6.122	ug/ml#	93
102) 3,3'-Dimethylbenzidine	12.315	212	132801	4.011	ug/ml	98

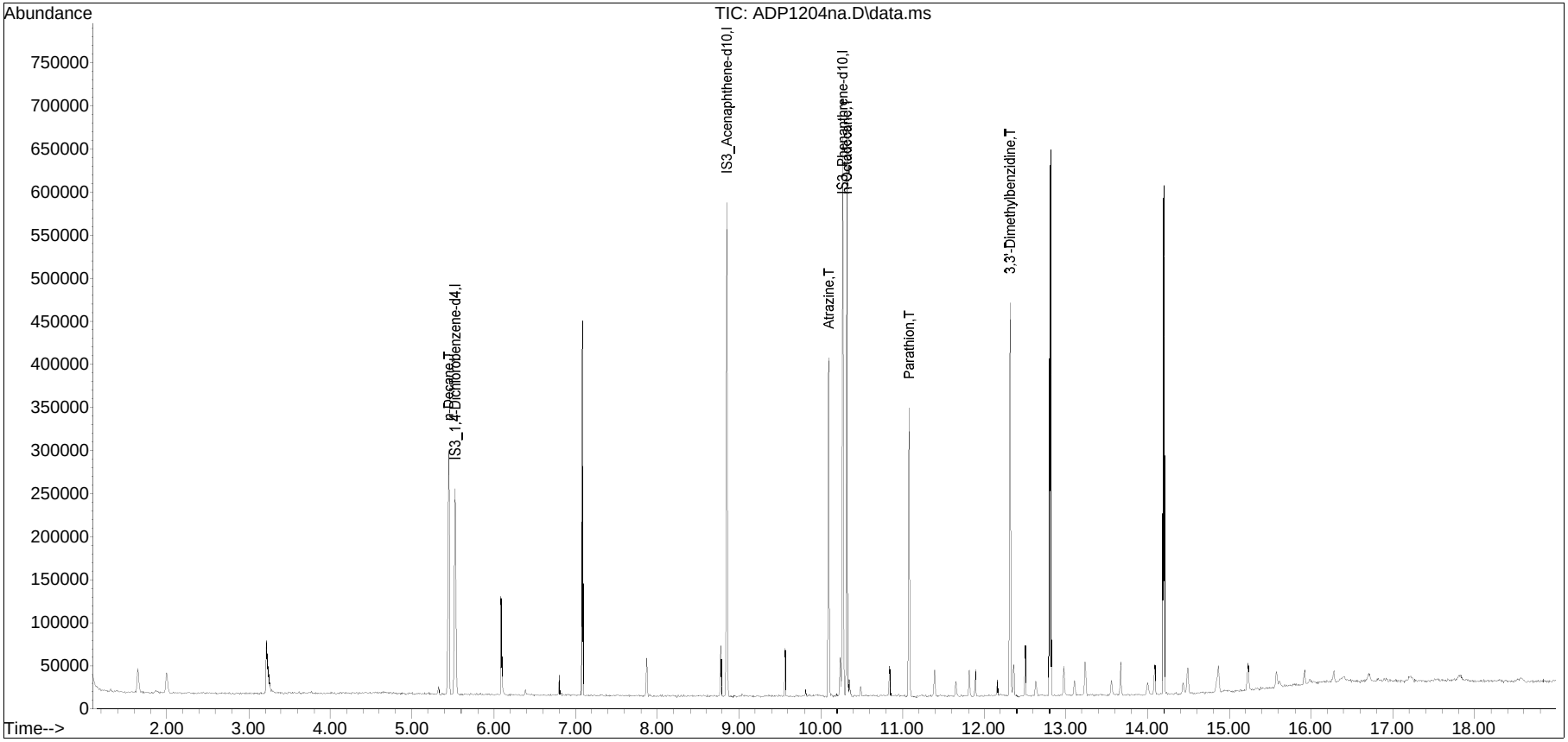
(#) = qualifier out of range (m) = manual integration (+) = signals summed

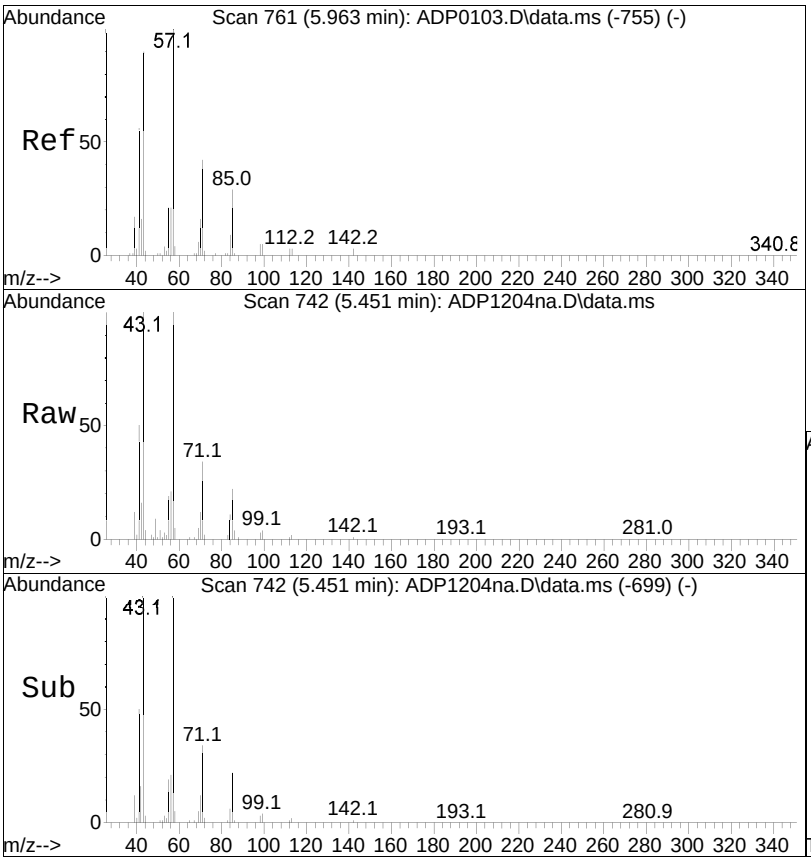
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : ADP1204na.D
Acq On : 5 Dec 2023 12:13 am
Operator : SV106:sz
Sample : wg1859682-5,32,,ADP LVI CCV Lot # 10092
Misc : wg1859682,,ical20337
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 05 00:36:27 2023
Quant Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 00:36:09 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

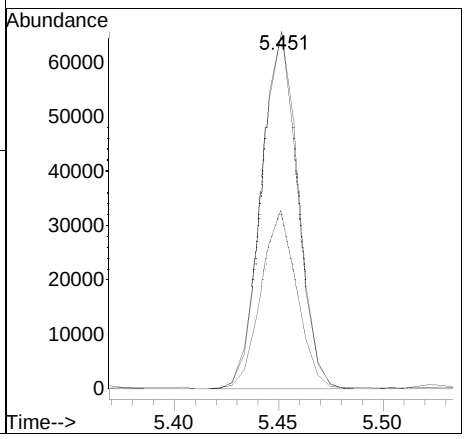


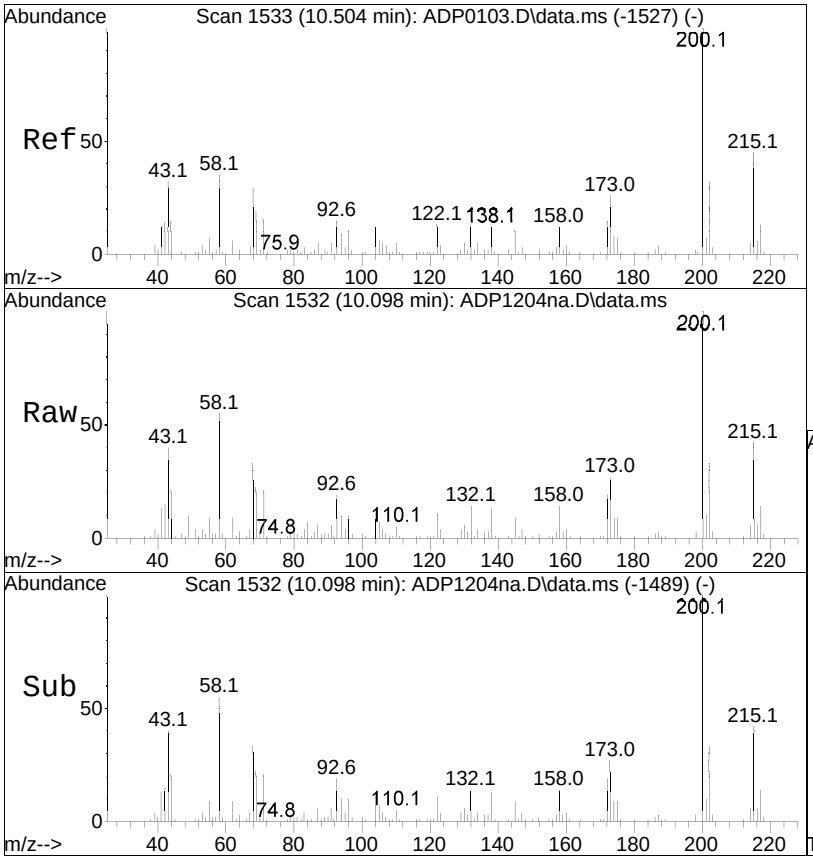


#33
n-Decane
Concen: 5.32 ug/ml
RT: 5.451 min Scan# 742
Delta R.T. 0.000 min
Lab File: ADP1204na.D
Acq: 5 Dec 2023 12:13 am

Tgt Ion: 57 Resp: 79169

Ion	Ratio	Lower	Upper
57	100		
43	99.3	0.2	0.2#
41	49.5	0.2	0.2#

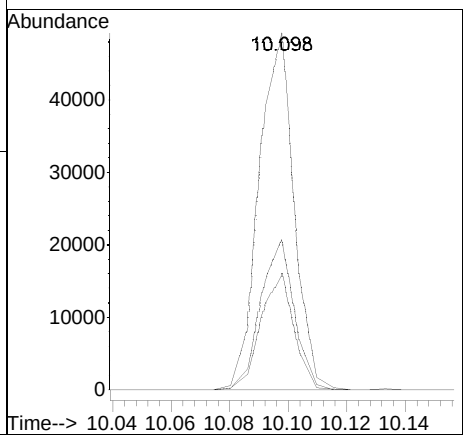


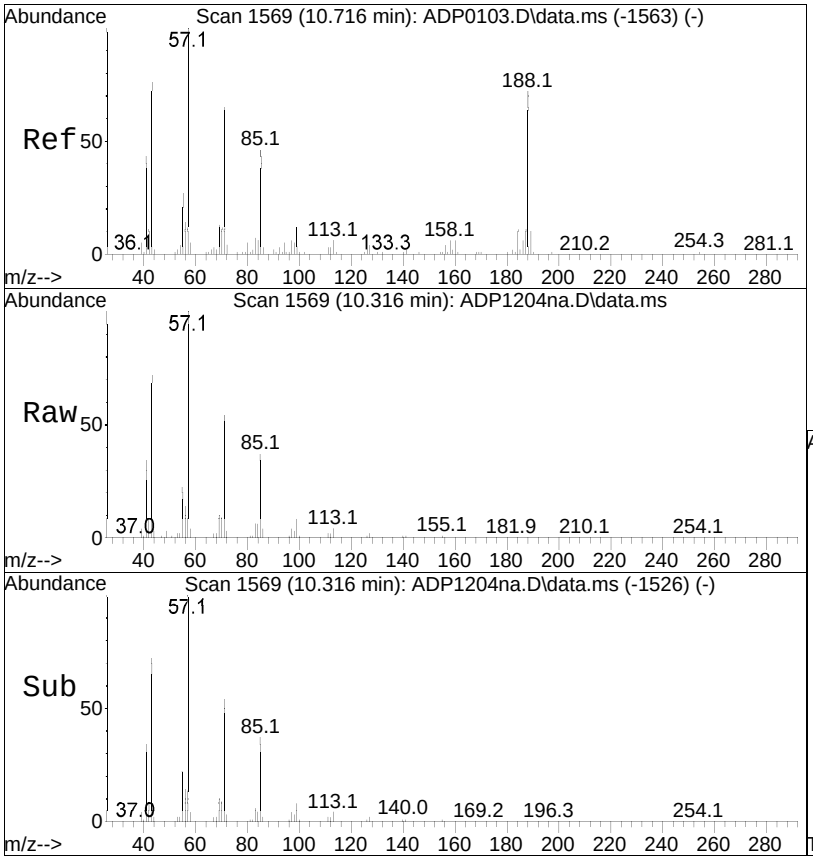


#86
Atrazine
Concen: 4.67 ug/ml
RT: 10.098 min Scan# 1532
Delta R.T. 0.000 min
Lab File: ADP1204na.D
Acq: 5 Dec 2023 12:13 am

Tgt Ion:200 Resp: 40552

Ion	Ratio	Lower	Upper
200	100		
202	31.0	25.8	38.6
215	40.5	40.2	60.4

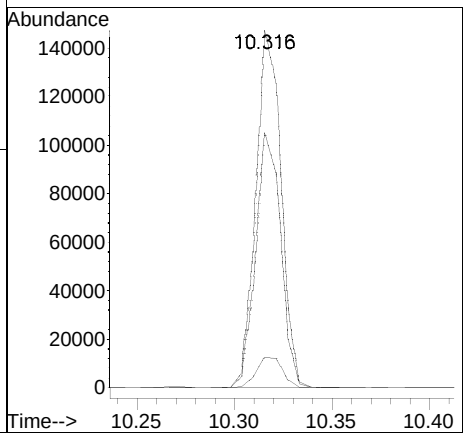


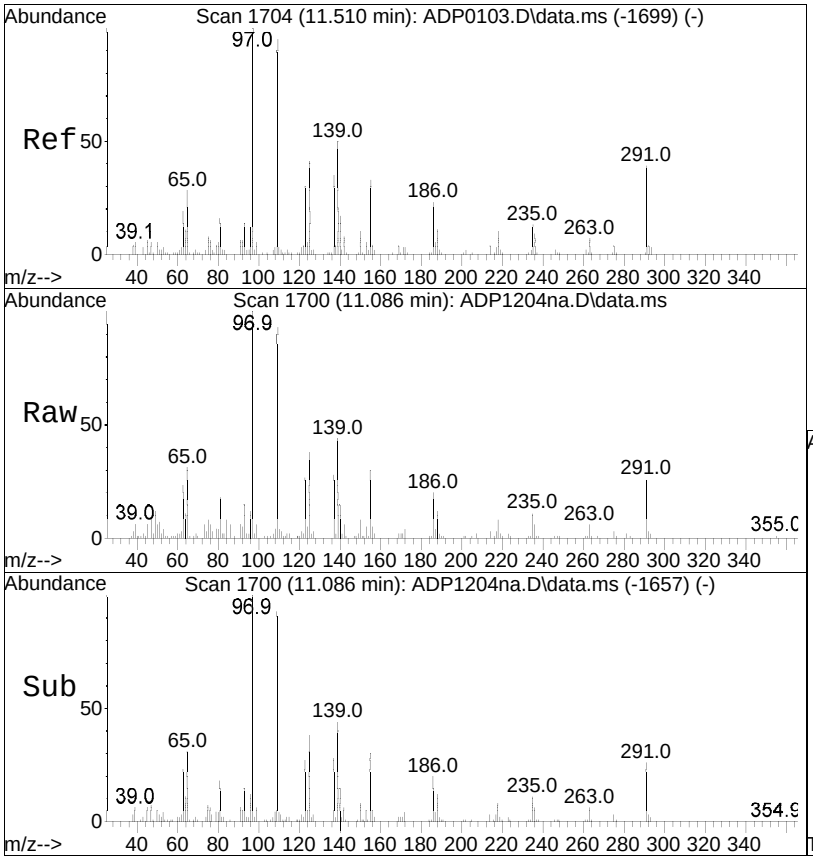


#100
n-Octadecane
Concen: 5.44 ug/ml
RT: 10.316 min Scan# 1569
Delta R.T. 0.000 min
Lab File: ADP1204na.D
Acq: 5 Dec 2023 12:13 am

Tgt Ion: 57 Resp: 130952

Ion	Ratio	Lower	Upper
57	100		
43	71.1	9.0	13.6#
70	9.1	0.2	0.2#

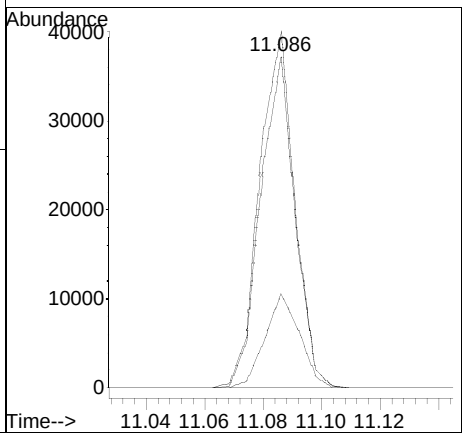


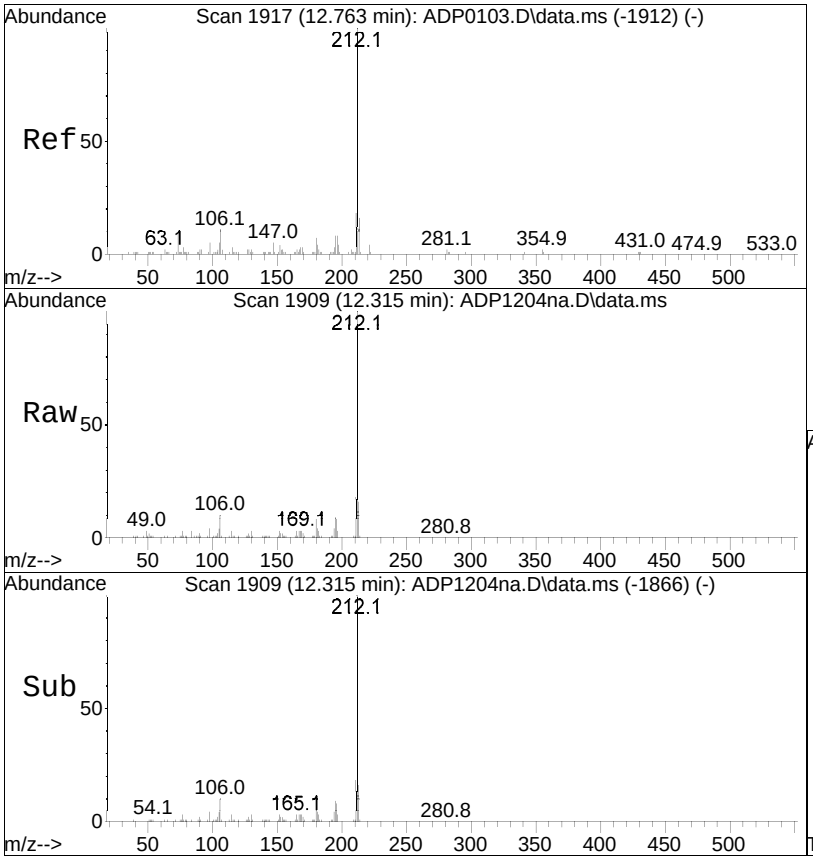


#101
Parathion
Concen: 6.12 ug/ml
RT: 11.086 min Scan# 1700
Delta R.T. 0.000 min
Lab File: ADP1204na.D
Acq: 5 Dec 2023 12:13 am

Tgt Ion:109 Resp: 30066

Ion	Ratio	Lower	Upper
109	100		
97	109.9	87.4	131.2
291	28.6	34.2	51.2#

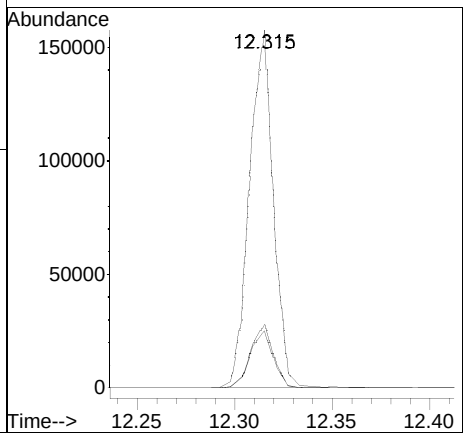




#102
3,3'-Dimethylbenzidine
Concen: 4.01 ug/ml
RT: 12.315 min Scan# 1909
Delta R.T. 0.000 min
Lab File: ADP1204na.D
Acq: 5 Dec 2023 12:13 am

Tgt Ion:212 Resp: 132801

Ion	Ratio	Lower	Upper
212	100		
211	17.1	12.9	19.3
213	15.6	13.2	19.8



Manual Integration Report

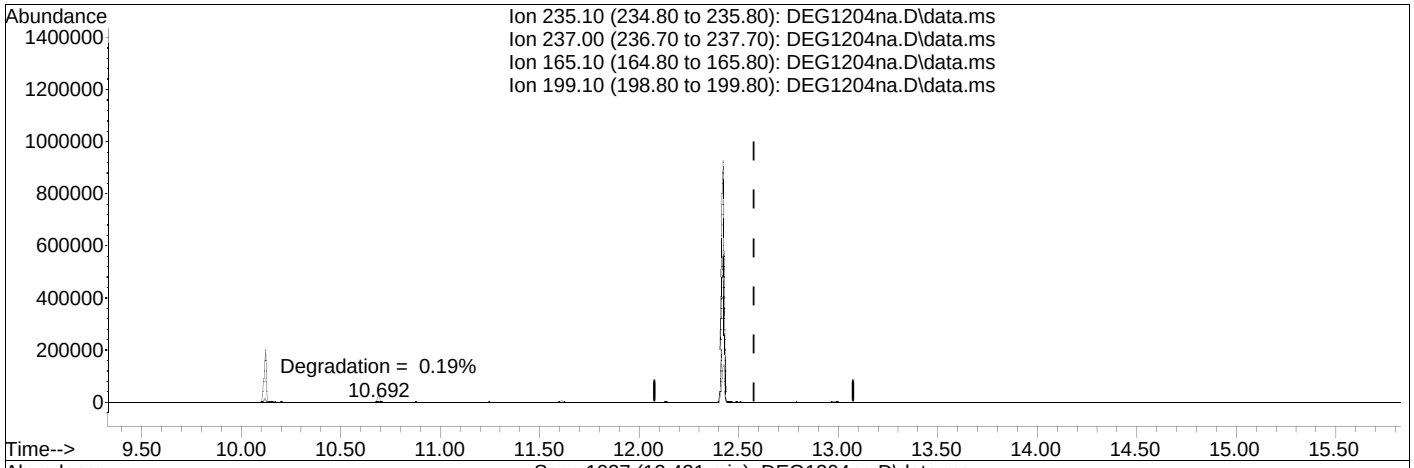
Data Path	: I:\8270\SV106\231204nalvi\	QMethod	: FS230902SV106.m
Data File	: ADP1204na.D	Operator	: SV106:sz
Date Inj'd	: 12/5/2023 12:13 am	Instrument	: SV 106
Sample	: wg1859682-5,32,,ADP LVI CC	Quant Date	: 12/5/2023 0:36 am

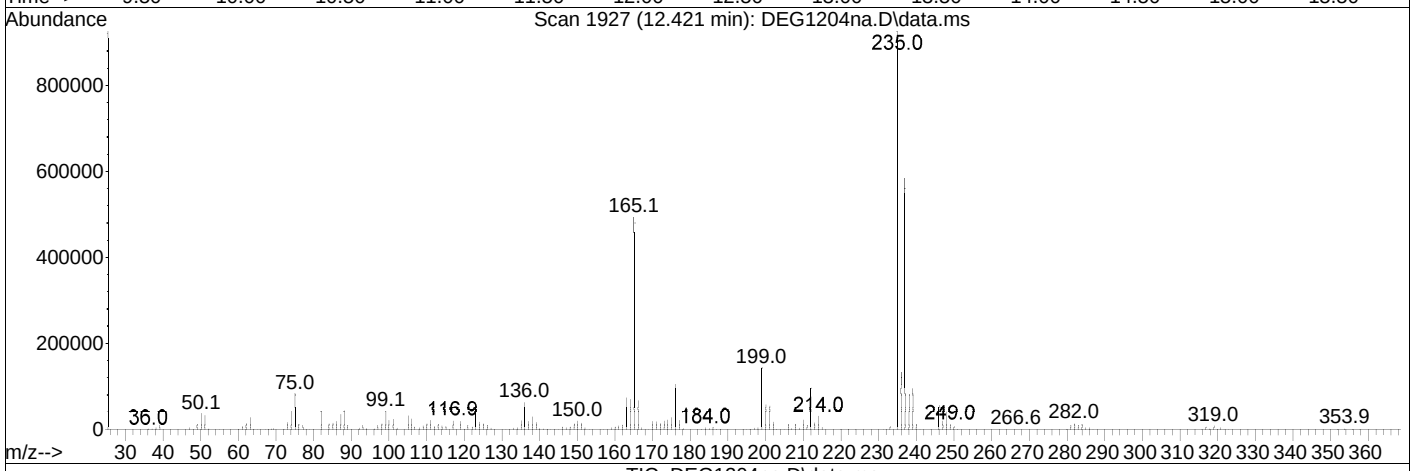
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\231204nalvi\
Data File : DEG1204na.D
Acq On : 4 Dec 2023 11:01 pm
Operator : SV106:sz
Sample : wg1859682-2,32,,SV106 Degdftpp
Misc : wg1859682,,ical20337
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 04 23:25:27 2023
Quant Method : I:\8270\SV106\231204nalvi\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 01 10:50:33 2023
Response via : Initial Calibration





TIC: DEG1204na.D\data.ms

(6) DDT (T)

12.421min (-0.156) 135.66

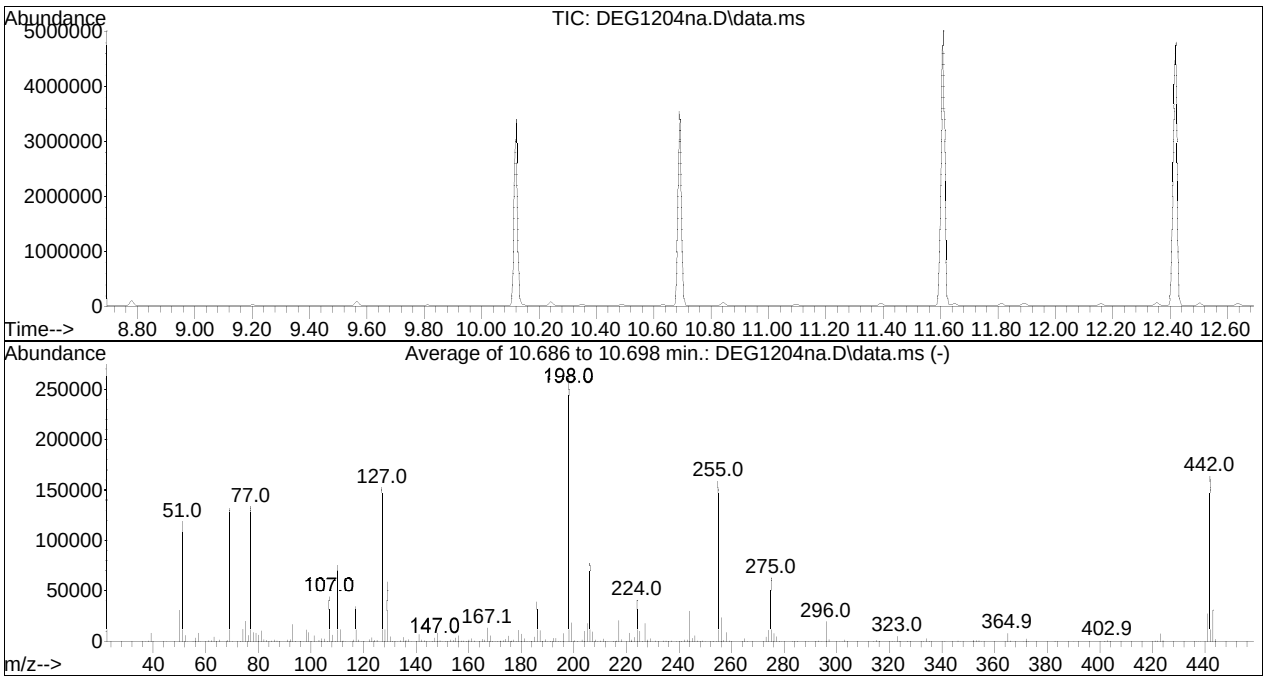
response 826949

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.80	62.96
165.10	58.50	56.59
199.10	16.70	16.22

Data Path : I:\8270\SV106\231204nalvi\
Data File : DEG1204na.D
Acq On : 4 Dec 2023 11:01 pm
Operator : SV106: ASK
Sample : WG1859682-1,32,,SV106 Degdftpp
Misc : WG1859682,,ical20337
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV106\231204nalvi\FS230902SV106.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Dec 05 02:57:07 2023



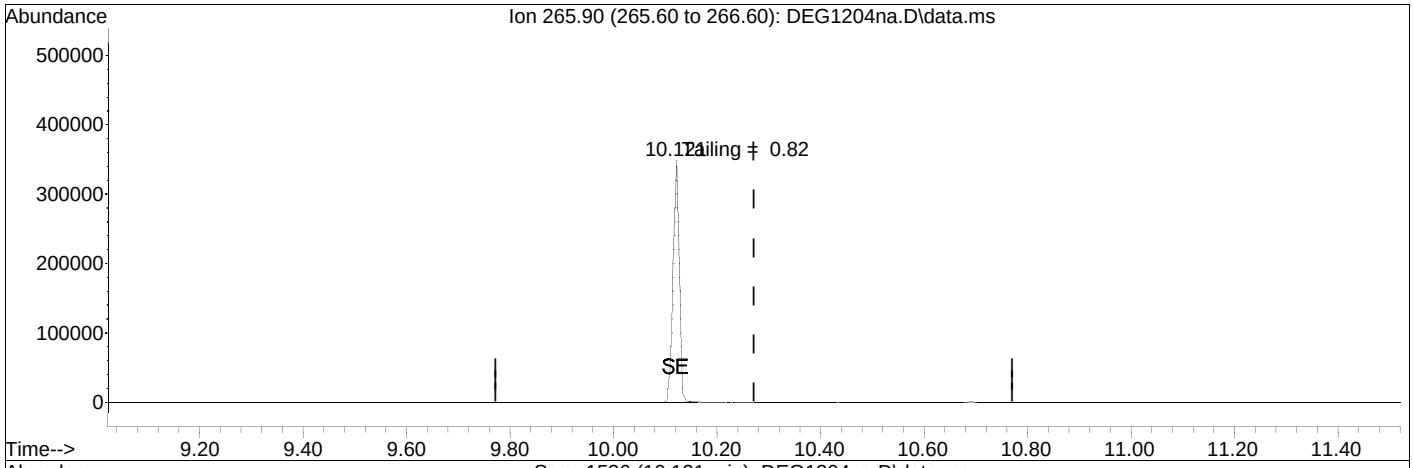
Spectrum Information: Average of 10.686 to 10.698 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	45.3	118578	PASS
68	69	0.00	2	1.5	1904	PASS
69	69	100	100	100.0	131296	PASS
70	69	0.00	2	0.5	686	PASS
127	198	10	80	58.2	152221	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	261525	PASS
199	198	5	9	6.9	18041	PASS
275	198	10	60	24.1	63115	PASS
365	198	1	100	3.2	8338	PASS
441	442	0.01	24	16.3	26702	PASS
442	198	50	100	62.6	163731	PASS
443	442	15	24	18.9	31022	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\231204nalvi\
Data File : DEG1204na.D
Acq On : 4 Dec 2023 11:01 pm
Operator : SV106:sz
Sample : wg1859682-7,32,,SV106 Degdftpp
Misc : wg1859682,,ical20337
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 04 23:25:27 2023
Quant Method : I:\8270\SV106\231204nalvi\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 01 10:50:33 2023
Response via : Initial Calibration



TIC: DEG1204na.D\data.ms

(1) Pentachlorophenol (T)

10.121min (-0.150) 126.55

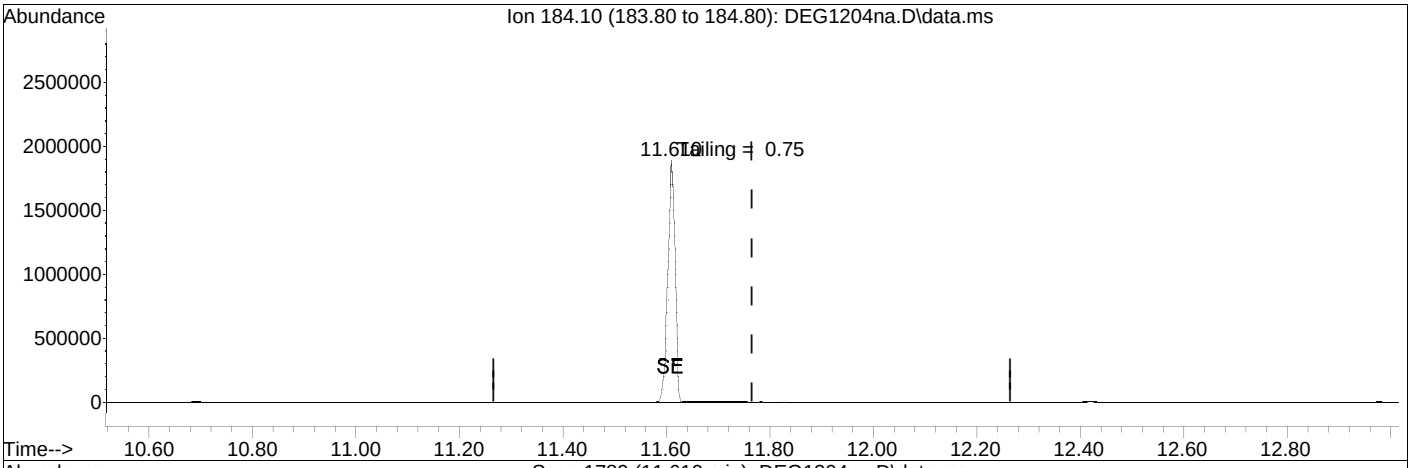
response 265810

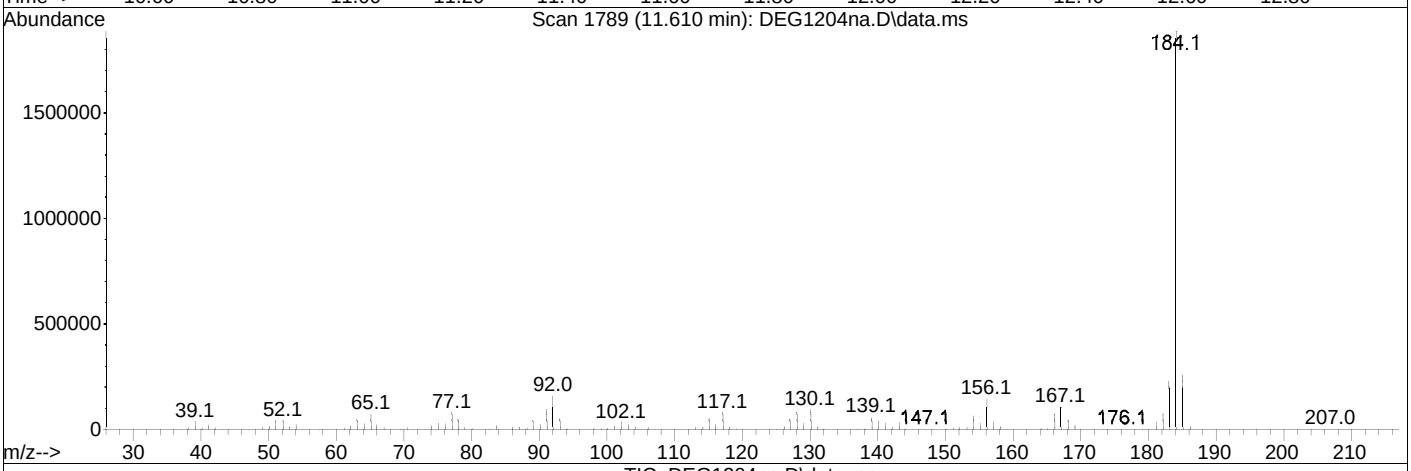
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV106\231204nalvi\
Data File : DEG1204na.D
Acq On : 4 Dec 2023 11:01 pm
Operator : SV106:sz
Sample : wg1859682-6,32,,SV106 Degdftpp
Misc : wg1859682,,ical20337
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 04 23:25:27 2023
Quant Method : I:\8270\SV106\231204nalvi\DftppSV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 01 10:50:33 2023
Response via : Initial Calibration





TIC: DEG1204na.D\data.ms

(3) Benzidine (T)

11.610min (-0.156) 166.11

response 1690959

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/04/23 21:57		
Lab File ID	: ABN1204N	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1859679-3	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
n-Nitrosodimethylamine	0.728	0.755	-	-3.7	20	110	0
Pyridine	1.296	1.405	-	-8.4	20	112	0
2-Fluorophenol	1.08	1.126	-	-4.3	20	106	0
Aniline	1.802	1.852	-	-2.8	20	105	0
2-Chlorophenol	1.192	1.249	-	-4.8	20	110	0
Phenol-d6	1.36	1.408	-	-3.5	20	108	0
Phenol	1.458	1.555	-	-6.7	20	111	0
Bis(2-chloroethyl)ether	1.209	1.225	-	-1.3	20	105	0
1,3-Dichlorobenzene	1.438	1.503	-	-4.5	20	112	0
1,4-Dichlorobenzene	1.47	1.521	-	-3.5	20	111	0
1,2-Dichlorobenzene	1.398	1.44	-	-3	20	109	0
Benzyl alcohol	0.952	0.938	-	1.5	20	101	0
Bis(2-chloroisopropyl)ethe	2.449	2.074	-	15.3	20	89	0
2-Methylphenol	1.039	1.078	-	-3.8	20	106	0
Hexachloroethane	0.573	0.56	-	2.3	20	105	0
n-Nitrosodi-n-propylamine	0.894	0.845	-	5.5	20	100	0
3-Methylphenol/4-Methylphe	1.118	1.141	-	-2.1	20	106	0
Nitrobenzene-d5	1.288	1.245	-	3.3	20	101	0
Nitrobenzene	1.324	1.284	-	3	20	102	0
Isophorone	2.322	2.187	-	5.8	20	98	0
2-Nitrophenol	0.61	0.629	-	-3.1	20	113	0
2,4-Dimethylphenol	1.205	1.21	-	-0.4	20	103	0
Bis(2-chloroethoxy)methane	1.603	1.569	-	2.1	20	103	0
2,4-Dichlorophenol	1.079	1.118	-	-3.6	20	109	0
1,2,4-Trichlorobenzene	1.267	1.259	-	0.6	20	109	0
IS1_Naphthalene-d8	1	1	-	0	20	99	0
Naphthalene	1.004	1.002	-	0.2	20	103	0
Benzoic Acid	5	4.647	-	7.1	20	102	0
4-Chloroaniline	0.137	0.127	-	7.3	20	91	0
Hexachlorobutadiene	0.199	0.206	-	-3.5	20	108	0
p-Chloro-m-cresol	0.279	0.283	-	-1.4	20	106	0
2-Methylnaphthalene	0.668	0.662	-	0.9	20	101	0
1-Methylnaphthalene	0.236	0.228	-	3.4	20	100	0
Hexachlorocyclopentadiene	0.223	0.257	-	-15.2	20	120	0
2,4,6-Trichlorophenol	0.21	0.235	-	-11.9	20	112	0
2,4,5-Trichlorophenol	0.228	0.246	-	-7.9	20	108	0
2-Fluorobiphenyl	0.815	0.84	-	-3.1	20	105	0
2-Chloronaphthalene	0.685	0.717	-	-4.7	20	107	0
2-Nitroaniline	5	4.461	-	10.8	20	98	0
1,4-Dinitrobenzene	0.099	0.096	-	3	20	104	0
1,3-Dinitrobenzene	0.113	0.113	-	0	20	105	0
Dimethyl phthalate	0.814	0.812	-	0.2	20	99	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/04/23 21:57		
Lab File ID	: ABN1204N	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1859679-3	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.107	1.101	-	0.5	20	100	0
2,6-Dinitrotoluene	0.167	0.166	-	0.6	20	100	0
1,2-Dinitrobenzene	0.073	0.076	-	-4.1	20	109	0
IS1_Acenaphthene-d10	1	1	-	0	20	94	0
3-Nitroaniline	0.306	0.297	-	2.9	20	97	0
Acenaphthene	1.115	1.151	-	-3.2	20	106	0
2,4-Dinitrophenol	5	5.484	-	-9.7	20	120	0
Dibenzofuran	1.672	1.806	-	-8	20	109	0
2,4-Dinitrotoluene	0.395	0.402	-	-1.8	20	100	0
4-Nitrophenol	0.308	0.246	-	20.1*	20	80	0
2,3,5,6-Tetrachlorophenol	0.307	0.372	-	-21.2*	20	118	0
2,3,4,6-Tetrachlorophenol	5	5.435	-	-8.7	20	114	0
Diethyl phthalate	1.338	1.374	-	-2.7	20	100	0
Fluorene	1.297	1.395	-	-7.6	20	108	0
4-Chlorophenyl phenyl ethe	0.663	0.72	-	-8.6	20	112	0
4-Nitroaniline	0.304	0.308	-	-1.3	20	99	0
4,6-Dinitro-o-cresol	5	5.697	-	-13.9	20	123	0
NDPA/DPA	1.09	1.204	-	-10.5	20	109	0
Azobenzene	1.322	1.292	-	2.3	20	97	0
2,4,6-Tribromophenol	5	5.259	-	-5.2	20	116	0
4-Bromophenyl phenyl ether	0.352	0.405	-	-15.1	20	117	0
Hexachlorobenzene	0.37	0.407	-	-10	20	112	0
Pentachlorophenol	5	5.461	-	-9.2	20	121	0
IS1_Phenanthrene-d10	1	1	-	0	20	105	0
Phenanthrene	1.068	1.029	-	3.7	20	108	0
Anthracene	1.052	1.016	-	3.4	20	104	0
Carbazole	0.921	0.9	-	2.3	20	104	0
Di-n-butylphthalate	1.16	1.063	-	8.4	20	102	0
Fluoranthene	1.197	1.184	-	1.1	20	107	0
Benzidine	5	4.661	-	6.8	20	106	0
Pyrene	1.273	1.251	-	1.7	20	104	0
4-Terphenyl-d14	0.819	0.893	-	-9	20	118	0
Butyl benzyl phthalate	5	4.532	-	9.4	20	112	0
IS1_Chrysene-d12	1	1	-	0	20	122	0
Benzo(a)anthracene	1.358	1.319	-	2.9	20	125	0
3,3'-Dichlorobenzidine	0.462	0.435	-	5.8	20	124	0
Chrysene	1.352	1.231	-	8.9	20	118	0
Bis(2-ethylhexyl)phthalate	5	4.645	-	7.1	20	121	0
Di-n-octylphthalate	5	4.322	-	13.6	20	117	0
Benzo(b)fluoranthene	1.265	1.239	-	2.1	20	123	0
Benzo(k)fluoranthene	1.222	1.173	-	4	20	111	0
Benzo(a)pyrene	1.086	1.022	-	5.9	20	114	0
IS1_Perylene-d12	1	1	-	0	20	116	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 12/04/23 21:57	
Lab File ID	: ABN1204N		**Init. Calib. Date(s)**	: 10/26/23	10/27/23
Sample No	: WG1859679-3		**Init. Calib. Times**	: 00:22	13:53
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.88	0.9	-	-2.3	20	126	0
Dibenzo(a,h)anthracene	0.987	1	-	-1.3	20	120	0
Benzo(ghi)perylene	0.995	1.007	-	-1.2	20	118	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/04/23 22:24		
Lab File ID	: AP91204N	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1859679-4	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	104	0
Benzaldehyde	0.929	0.951	-	-2.4	20	100	0
Acetophenone	1.694	1.656	-	2.2	20	100	0
m-Toluidine	1.56	1.584	-	-1.5	20	101	0
2-Chloroaniline	1.486	1.48	-	0.4	20	100	0
IS2_Naphthalene-d8	1	1	-	0	20	105	0
a-Terpineol	0.334	0.28	-	16.2	20	86	0
3-Chloroaniline	0.157	0.136	-	13.4	20	89	0
2,6-Dichlorophenol	0.265	0.274	-	-3.4	20	106	0
1-chloro-2-nitrobenzene	0.143	0.13	-	9.1	20	97	0
Caprolactam	0.193	0.138	-	28.5*	20	80	0
1,2,4,5-Tetrachlorobenzene	0.331	0.363	-	-9.7	20	111	0
Biphenyl	0.813	0.831	-	-2.2	20	103	0
IS2_Acenaphthene-d10	1	1	-	0	20	101	0
Dichloran	0.158	0.144	-	8.9	20	105	0
Pentachloronitrobenzene	0.161	0.158	-	1.9	20	105	0
IS2_Phenanthrene-d10	1	1	-	0	20	111	0
Diphenamid	0.448	0.403	-	10	20	98	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/04/23 22:51		
Lab File ID	: ADP1204N	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1859679-5	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	95	0
n-Decane	1.71	1.478	-	13.6	20	84	0
IS3_Acenaphthene-d10	1	1	-	0	20	96	0
Atrazine	5	4.558	-	8.8	20	101	0
IS3_Phenanthrene-d10	1	1	-	0	20	104	0
n-Octadecane	0.553	0.414	-	25.1*	20	78	0
Parathion	5	3.985	-	20.3*	20	88	0
3,3'-Dimethylbenzidine	5	4.799	-	4	20	116	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 12/04/23 23:25		
Lab File ID	: ABN1204NA	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1859682-3	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	82	0
n-Nitrosodimethylamine	0.677	0.75	-	-10.8	20	99	0
Pyridine	1.151	1.321	-	-14.8	20	103	0
2-Fluorophenol	1.116	1.058	-	5.2	20	88	0
Aniline	1.893	1.734	-	8.4	20	83	0
2-Chlorophenol	1.274	1.185	-	7	20	82	0
Phenol-d6	1.437	1.369	-	4.7	20	85	0
Phenol	1.521	1.445	-	5	20	87	0
Bis(2-chloroethyl)ether	1.222	1.147	-	6.1	20	85	0
1,3-Dichlorobenzene	1.461	1.329	-	9	20	82	0
1,4-Dichlorobenzene	1.503	1.348	-	10.3	20	83	0
1,2-Dichlorobenzene	1.431	1.273	-	11	20	81	0
Benzyl alcohol	1.074	1.033	-	3.8	20	86	0
Bis(2-chloroisopropyl)ethe	1.8	1.86	-	-3.3	20	93	0
2-Methylphenol	1.138	1.05	-	7.7	20	85	0
Hexachloroethane	0.586	0.552	-	5.8	20	85	0
n-Nitrosodi-n-propylamine	0.923	0.874	-	5.3	20	87	0
3-Methylphenol/4-Methylphe	1.193	1.085	-	9.1	20	82	0
Nitrobenzene-d5	1.303	1.347	-	-3.4	20	96	0
Nitrobenzene	1.295	1.346	-	-3.9	20	93	0
Isophorone	2.478	2.312	-	6.7	20	85	0
2-Nitrophenol	0.518	0.6	-	-15.8	20	106	0
2,4-Dimethylphenol	1.281	1.154	-	9.9	20	79	0
Bis(2-chloroethoxy)methane	1.552	1.507	-	2.9	20	88	0
2,4-Dichlorophenol	1.076	1.036	-	3.7	20	84	0
1,2,4-Trichlorobenzene	1.235	1.106	-	10.4	20	83	0
IS1_Naphthalene-d8	1	1	-	0	20	82	0
Naphthalene	1.008	0.909	-	9.8	20	83	0
Benzoic Acid	5	5.77	-	-15.4	20	116	0
4-Chloroaniline	0.132	0.126	-	4.5	20	87	0
Hexachlorobutadiene	0.206	0.172	-	16.5	20	78	0
p-Chloro-m-cresol	0.291	0.273	-	6.2	20	83	0
2-Methylnaphthalene	0.642	0.561	-	12.6	20	80	0
1-Methylnaphthalene	0.241	0.225	-	6.6	20	84	0
Hexachlorocyclopentadiene	0.219	0.207	-	5.5	20	87	0
2,4,6-Trichlorophenol	0.209	0.188	-	10	20	84	0
2,4,5-Trichlorophenol	0.224	0.205	-	8.5	20	86	0
2-Fluorobiphenyl	0.764	0.649	-	15.1	20	79	0
2-Chloronaphthalene	0.669	0.599	-	10.5	20	82	0
2-Nitroaniline	5	4.776	-	4.5	20	92	0
1,4-Dinitrobenzene	5	5.269	-	-5.4	20	110	0
1,3-Dinitrobenzene	5	5.308	-	-6.2	20	104	0
Dimethyl phthalate	0.787	0.72	-	8.5	20	83	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 12/04/23 23:25		
Lab File ID	: ABN1204NA	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1859682-3	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.077	0.956	-	11.2	20	83	0
2,6-Dinitrotoluene	5	5.043	-	-0.9	20	99	0
1,2-Dinitrobenzene	0.063	0.065	-	-3.2	20	95	0
IS1_Acenaphthene-d10	1	1	-	0	20	85	0
3-Nitroaniline	0.286	0.293	-	-2.4	20	95	0
Acenaphthene	1.131	0.959	-	15.2	20	81	0
2,4-Dinitrophenol	5	6.199	-	-24*	20	128	0
Dibenzofuran	1.69	1.468	-	13.1	20	82	0
2,4-Dinitrotoluene	5	4.969	-	0.6	20	100	0
4-Nitrophenol	5	5.658	-	-13.2	20	116	0
2,3,5,6-Tetrachlorophenol	0.325	0.295	-	9.2	20	84	0
2,3,4,6-Tetrachlorophenol	0.337	0.291	-	13.6	20	80	0
Diethyl phthalate	1.415	1.32	-	6.7	20	86	0
Fluorene	1.336	1.166	-	12.7	20	82	0
4-Chlorophenyl phenyl ethe	0.637	0.534	-	16.2	20	80	0
4-Nitroaniline	0.289	0.285	-	1.4	20	87	0
4,6-Dinitro-o-cresol	5	6.143	-	-22.9*	20	139	0
NDPA/DPA	1.124	0.961	-	14.5	20	79	0
Azobenzene	1.319	1.234	-	6.4	20	87	0
2,4,6-Tribromophenol	0.184	0.163	-	11.4	20	81	0
4-Bromophenyl phenyl ether	0.371	0.31	-	16.4	20	79	0
Hexachlorobenzene	0.432	0.344	-	20.4*	20	77	0
Pentachlorophenol	5	4.204	-	15.9	20	83	0
IS1_Phenanthrene-d10	1	1	-	0	20	87	0
Phenanthrene	1.089	0.897	-	17.6	20	80	0
Anthracene	1.084	0.897	-	17.3	20	79	0
Carbazole	0.991	0.853	-	13.9	20	81	0
Di-n-butylphthalate	1.269	1.131	-	10.9	20	84	0
Fluoranthene	1.165	0.96	-	17.6	20	80	0
Benzidine	0.77	0.598	-	22.3*	20	74	0
Pyrene	1.233	1.032	-	16.3	20	81	0
4-Terphenyl-d14	0.877	0.733	-	16.4	20	80	0
Butyl benzyl phthalate	0.541	0.512	-	5.4	20	90	0
IS1_Chrysene-d12	1	1	-	0	20	83	0
Benzo(a)anthracene	1.326	1.111	-	16.2	20	78	0
3,3'-Dichlorobenzidine	0.472	0.409	-	13.3	20	77	0
Chrysene	1.231	1.046	-	15	20	79	0
Bis(2-ethylhexyl)phthalate	0.889	0.944	-	-6.2	20	95	0
Di-n-octylphthalate	1.499	1.545	-	-3.1	20	91	0
Benzo(b)fluoranthene	1.266	1.188	-	6.2	20	88	0
Benzo(k)fluoranthene	1.214	1.002	-	17.5	20	72	0
Benzo(a)pyrene	1.083	0.951	-	12.2	20	80	0
IS1_Perylene-d12	1	1	-	0	20	82	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV106		**Calibration Date**	: 12/04/23 23:25	
Lab File ID	: ABN1204NA		**Init. Calib. Date(s)**	: 09/02/23	09/03/23
Sample No	: WG1859682-3		**Init. Calib. Times**	: 12:13	00:52
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.935	0.809	-	13.5	20	80	0
Dibenzo(a,h)anthracene	0.999	0.904	-	9.5	20	81	0
Benzo(ghi)perylene	0.991	0.9	-	9.2	20	82	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV106	**Calibration Date**	: 12/04/23 23:49		
Lab File ID	: AP91204NA	**Init. Calib. Date(s)**	: 09/02/23	09/03/23	
Sample No	: WG1859682-4	**Init. Calib. Times**	: 12:13	00:52	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	95	0
Benzaldehyde	0.928	1.078	-	-16.2	20	79	0
Acetophenone	1.994	1.917	-	3.9	20	70	0
m-Toluidine	1.55	1.8	-	-16.1	20	78	0
2-Chloroaniline	1.67	1.602	-	4.1	20	69	0
IS2_Naphthalene-d8	1	1	-	0	20	100	0
a-Terpineol	0.289	0.309	-	-6.9	20	82	0
3-Chloroaniline	0.15	0.156	-	-4	20	77	0
2,6-Dichlorophenol	0.277	0.275	-	0.7	20	73	0
1-chloro-2-nitrobenzene	0.131	0.144	-	-9.9	20	82	0
Caprolactam	0.147	0.162	-	-10.2	20	81	0
1,2,4,5-Tetrachlorobenzene	0.348	0.299	-	14.1	20	67	0
Biphenyl	0.856	0.772	-	9.8	20	69	0
IS2_Acenaphthene-d10	1	1	-	0	20	108	0
Dichloran	5	5.549	-	-11	20	95	0
Pentachloronitrobenzene	5	5.613	-	-12.3	20	92	0
IS2_Phenanthrene-d10	1	1	-	0	20	109	0
Diphenamid	0.508	0.469	-	7.7	20	73	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV106		**Calibration Date**	: 12/05/23 00:13	
Lab File ID	: ADP1204NA		**Init. Calib. Date(s)**	: 09/02/23	09/03/23
Sample No	: WG1859682-5		**Init. Calib. Times**	: 12:13	00:52
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	97	0
n-Decane	1.347	1.434	-	-6.5	20	105	0
IS3_Acenaphthene-d10	1	1	-	0	20	110	0
Atrazine	0.345	0.322	-	6.7	20	104	0
IS3_Phenanthrene-d10	1	1	-	0	20	116	0
n-Octadecane	0.46	0.501	-	-8.9	20	124	0
Parathion	0.094	0.115	-	-22.3*	20	156	0
3,3'-Dimethylbenzidine	5	4.011	-	19.8	20	99	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/06/23 07:03		
Lab File ID	: ABN1206	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1860349-3	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	100	0
n-Nitrosodimethylamine	0.728	0.734	-	-0.8	20	107	0
Pyridine	1.296	1.27	-	2	20	102	0
2-Fluorophenol	1.08	1.047	-	3.1	20	99	0
Aniline	1.802	1.724	-	4.3	20	98	0
2-Chlorophenol	1.192	1.138	-	4.5	20	101	0
Phenol-d6	1.36	1.307	-	3.9	20	100	0
Phenol	1.458	1.455	-	0.2	20	104	0
Bis(2-chloroethyl)ether	1.209	1.134	-	6.2	20	97	0
1,3-Dichlorobenzene	1.438	1.361	-	5.4	20	102	0
1,4-Dichlorobenzene	1.47	1.378	-	6.3	20	101	0
1,2-Dichlorobenzene	1.398	1.328	-	5	20	101	0
Benzyl alcohol	0.952	0.876	-	8	20	95	0
Bis(2-chloroisopropyl)ethe	2.449	1.883	-	23.1*	20	81	0
2-Methylphenol	1.039	0.984	-	5.3	20	97	0
Hexachloroethane	0.573	0.502	-	12.4	20	95	0
n-Nitrosodi-n-propylamine	0.894	0.774	-	13.4	20	91	0
3-Methylphenol/4-Methylphe	1.118	1.045	-	6.5	20	97	0
Nitrobenzene-d5	1.288	1.171	-	9.1	20	96	0
Nitrobenzene	1.324	1.197	-	9.6	20	96	0
Isophorone	2.322	2.07	-	10.9	20	93	0
2-Nitrophenol	0.61	0.581	-	4.8	20	105	0
2,4-Dimethylphenol	1.205	1.09	-	9.5	20	93	0
Bis(2-chloroethoxy)methane	1.603	1.41	-	12	20	93	0
2,4-Dichlorophenol	1.079	1.013	-	6.1	20	99	0
1,2,4-Trichlorobenzene	1.267	1.156	-	8.8	20	101	0
IS1_Naphthalene-d8	1	1	-	0	20	101	0
Naphthalene	1.004	0.912	-	9.2	20	96	0
Benzoic Acid	5	4.274	-	14.5	20	92	0
4-Chloroaniline	0.137	0.116	-	15.3	20	85	0
Hexachlorobutadiene	0.199	0.184	-	7.5	20	99	0
p-Chloro-m-cresol	0.279	0.255	-	8.6	20	98	0
2-Methylnaphthalene	0.668	0.596	-	10.8	20	92	0
1-Methylnaphthalene	0.236	0.199	-	15.7	20	89	0
Hexachlorocyclopentadiene	0.223	0.214	-	4	20	102	0
2,4,6-Trichlorophenol	0.21	0.198	-	5.7	20	96	0
2,4,5-Trichlorophenol	0.228	0.217	-	4.8	20	98	0
2-Fluorobiphenyl	0.815	0.715	-	12.3	20	92	0
2-Chloronaphthalene	0.685	0.62	-	9.5	20	94	0
2-Nitroaniline	5	4.12	-	17.6	20	91	0
1,4-Dinitrobenzene	0.099	0.086	-	13.1	20	95	0
1,3-Dinitrobenzene	0.113	0.1	-	11.5	20	95	0
Dimethyl phthalate	0.814	0.707	-	13.1	20	88	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/06/23 07:03		
Lab File ID	: ABN1206	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1860349-3	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.107	0.979	-	11.6	20	91	0
2,6-Dinitrotoluene	0.167	0.146	-	12.6	20	89	0
1,2-Dinitrobenzene	0.073	0.067	-	8.2	20	98	0
IS1_Acenaphthene-d10	1	1	-	0	20	97	0
3-Nitroaniline	0.306	0.272	-	11.1	20	91	0
Acenaphthene	1.115	1.003	-	10	20	95	0
2,4-Dinitrophenol	5	4.893	-	2.1	20	107	0
Dibenzofuran	1.672	1.541	-	7.8	20	96	0
2,4-Dinitrotoluene	0.395	0.348	-	11.9	20	89	0
4-Nitrophenol	0.308	0.221	-	28.2*	20	74	0
2,3,5,6-Tetrachlorophenol	0.307	0.306	-	0.3	20	100	0
2,3,4,6-Tetrachlorophenol	5	4.575	-	8.5	20	98	0
Diethyl phthalate	1.338	1.124	-	16	20	84	0
Fluorene	1.297	1.169	-	9.9	20	93	0
4-Chlorophenyl phenyl ethe	0.663	0.586	-	11.6	20	94	0
4-Nitroaniline	0.304	0.274	-	9.9	20	91	0
4,6-Dinitro-o-cresol	5	4.971	-	0.6	20	107	0
NDPA/DPA	1.09	0.998	-	8.4	20	93	0
Azobenzene	1.322	1.129	-	14.6	20	87	0
2,4,6-Tribromophenol	5	3.927	-	21.5*	20	88	0
4-Bromophenyl phenyl ether	0.352	0.306	-	13.1	20	91	0
Hexachlorobenzene	0.37	0.301	-	18.6	20	85	0
Pentachlorophenol	5	4.415	-	11.7	20	97	0
IS1_Phenanthrene-d10	1	1	-	0	20	100	0
Phenanthrene	1.068	0.908	-	15	20	91	0
Anthracene	1.052	0.922	-	12.4	20	90	0
Carbazole	0.921	0.817	-	11.3	20	89	0
Di-n-butylphthalate	1.16	0.928	-	20	20	85	0
Fluoranthene	1.197	1.019	-	14.9	20	88	0
Benzidine	5	4.281	-	14.4	20	90	0
Pyrene	1.273	1.105	-	13.2	20	88	0
4-Terphenyl-d14	0.819	0.703	-	14.2	20	88	0
Butyl benzyl phthalate	5	3.886	-	22.3*	20	88	0
IS1_Chrysene-d12	1	1	-	0	20	103	0
Benzo(a)anthracene	1.358	1.2	-	11.6	20	96	0
3,3'-Dichlorobenzidine	0.462	0.391	-	15.4	20	94	0
Chrysene	1.352	1.148	-	15.1	20	92	0
Bis(2-ethylhexyl)phthalate	5	3.954	-	20.9*	20	86	0
Di-n-octylphthalate	5	3.792	-	24.2*	20	84	0
Benzo(b)fluoranthene	1.265	1.079	-	14.7	20	90	0
Benzo(k)fluoranthene	1.222	1.075	-	12	20	85	0
Benzo(a)pyrene	1.086	0.938	-	13.6	20	88	0
IS1_Perylene-d12	1	1	-	0	20	98	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 12/06/23 07:03	
Lab File ID	: ABN1206		**Init. Calib. Date(s)**	: 10/26/23	10/27/23
Sample No	: WG1860349-3		**Init. Calib. Times**	: 00:22	13:53
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	0.88	0.829	-	5.8	20	98	0
Dibenzo(a,h)anthracene	0.987	0.921	-	6.7	20	93	0
Benzo(ghi)perylene	0.995	0.925	-	7	20	92	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV107	**Calibration Date**	: 12/06/23 07:29		
Lab File ID	: AP91206	**Init. Calib. Date(s)**	: 10/26/23	10/27/23	
Sample No	: WG1860349-4	**Init. Calib. Times**	: 00:22	13:53	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	103	0
Benzaldehyde	0.929	1.027	-	-10.5	20	107	0
Acetophenone	1.694	1.674	-	1.2	20	101	0
m-Toluidine	1.56	1.643	-	-5.3	20	104	0
2-Chloroaniline	1.486	1.494	-	-0.5	20	101	0
IS2_Naphthalene-d8	1	1	-	0	20	102	0
a-Terpineol	0.334	0.272	-	18.6	20	82	0
3-Chloroaniline	0.157	0.139	-	11.5	20	89	0
2,6-Dichlorophenol	0.265	0.267	-	-0.8	20	101	0
1-chloro-2-nitrobenzene	0.143	0.133	-	7	20	96	0
Caprolactam	0.193	0.143	-	25.9*	20	80	0
1,2,4,5-Tetrachlorobenzene	0.331	0.346	-	-4.5	20	103	0
Biphenyl	0.813	0.819	-	-0.7	20	99	0
IS2_Acenaphthene-d10	1	1	-	0	20	96	0
Dichloran	0.158	0.132	-	16.5	20	92	0
Pentachloronitrobenzene	0.161	0.139	-	13.7	20	88	0
IS2_Phenanthrene-d10	1	1	-	0	20	96	0
Diphenamid	0.448	0.382	-	14.7	20	80	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: SV107		**Calibration Date**	: 12/06/23 07:55	
Lab File ID	: ADP1206		**Init. Calib. Date(s)**	: 10/26/23	10/27/23
Sample No	: WG1860349-5		**Init. Calib. Times**	: 00:22	13:53
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	115	0
n-Decane	1.71	1.469	-	14.1	20	100	0
IS3_Acenaphthene-d10	1	1	-	0	20	111	0
Atrazine	5	3.748	-	25*	20	97	0
IS3_Phenanthrene-d10	1	1	-	0	20	105	0
n-Octadecane	0.553	0.407	-	26.4*	20	78	0
Parathion	5	4.017	-	19.7	20	91	0
3,3'-Dimethylbenzidine	5	4.333	-	13.3	20	102	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\231206lvi\
Data File : ABN1206.D
Acq On : 6 Dec 2023 7:03 am
Operator : SV107:sz
Sample : wg1860349-3,32,,ABN LVI CCV Lot #10166
Misc : wg1860349,,ical20485
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 07:31:29 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:31:13 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	100	0.00
2	t	n-Nitrosodimethylamine		0.728	0.734	-0.8	107	0.00
3	t	Pyridine		1.296	1.270	2.0	102	0.00
4	S	2-Fluorophenol		1.080	1.047	3.1	99	0.00
5	T	Aniline		1.802	1.724	4.3	98	0.00
6	t	2-Chlorophenol		1.192	1.138	4.5	101	0.00
7	S	Phenol-d6		1.360	1.307	3.9	100	0.00
8	T	Phenol		1.458	1.455	0.2	104	0.00
9	T	Bis(2-chloroethyl)ether		1.209	1.134	6.2	97	0.00
10	T	1,3-Dichlorobenzene		1.438	1.361	5.4	102	0.00
11	T	1,4-Dichlorobenzene		1.470	1.378	6.3	101	0.00
12	T	1,2-Dichlorobenzene		1.398	1.328	5.0	101	0.00
13	t	Benzyl alcohol		0.952	0.876	8.0	95	0.00
14	T	Bis(2-chloroisopropyl)ether		2.449	1.883	23.1#	81	0.00
15	T	2-Methylphenol		1.039	0.984	5.3	97	0.00
16	T	Hexachloroethane		0.573	0.502	12.4	95	0.00
17	T	n-Nitrosodi-n-propylamine		0.894	0.774	13.4	91	0.00
18	T	3-Methylphenol/4-Methylphen		1.118	1.045	6.5	97	0.00
19	S	Nitrobenzene-d5		1.288	1.171	9.1	96	0.00
20	T	Nitrobenzene		1.324	1.197	9.6	96	0.00
21	T	Isophorone		2.322	2.070	10.9	93	0.00
22	T	2-Nitrophenol		0.610	0.581	4.8	105	0.00
23	T	2,4-Dimethylphenol		1.205	1.090	9.5	93	0.00
24	T	Bis(2-chloroethoxy)methane		1.603	1.410	12.0	93	0.00
25	T	2,4-Dichlorophenol		1.079	1.013	6.1	99	0.00
26	T	1,2,4-Trichlorobenzene		1.267	1.156	8.8	101	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	101	0.00
35	T	Naphthalene		1.004	0.912	9.2	96	0.00
36	T	Benzoic Acid	*	5.000	4.274	14.5	92	0.00
37	T	4-Chloroaniline		0.137	0.116	15.3	85	0.00
38	T	Hexachlorobutadiene		0.199	0.184	7.5	99	0.00
39	T	p-Chloro-m-cresol		0.279	0.255	8.6	98	0.00
40	T	2-Methylnaphthalene		0.668	0.596	10.8	92	0.00
41	T	1-Methylnaphthalene		0.236	0.199	15.7	89	0.00
42	T	Hexachlorocyclopentadiene		0.223	0.214	4.0	102	0.00
43	T	2,4,6-Trichlorophenol		0.210	0.198	5.7	96	0.00
44	T	2,4,5-Trichlorophenol		0.228	0.217	4.8	98	0.00
45	S	2-Fluorobiphenyl		0.815	0.715	12.3	92	0.00

Data Path : I:\8270\SV107\231206lvi\
Data File : ABN1206.D
Acq On : 6 Dec 2023 7:03 am
Operator : SV107:sz
Sample : wg1860349-3,32,,ABN LVI CCV Lot #10166
Misc : wg1860349,,ical20485
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 07:31:29 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:31:13 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.685	0.620	9.5	94	0.00
47	T	2-Nitroaniline	*	5.000	4.120	17.6	91	0.00
48	T	1,4-Dinitrobenzene		0.099	0.086	13.1	95	0.00
49	T	1,3-Dinitrobenzene		0.113	0.100	11.5	95	0.00
50	T	Dimethyl phthalate		0.814	0.707	13.1	88	0.00
51	T	Acenaphthylene		1.107	0.979	11.6	91	0.00
52	T	2,6-Dinitrotoluene		0.167	0.146	12.6	89	0.00
53	T	1,2-Dinitrobenzene		0.073	0.067	8.2	98	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	97	0.00
63	T	3-Nitroaniline		0.306	0.272	11.1	91	0.00
64	T	Acenaphthene		1.115	1.003	10.0	95	0.00
65	T	2,4-Dinitrophenol	*	5.000	4.893	2.1	107	0.00
66	T	Dibenzofuran		1.672	1.541	7.8	96	0.00
67	T	2,4-Dinitrotoluene		0.395	0.348	11.9	89	0.00
68	T	4-Nitrophenol		0.308	0.221	28.2#	74	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.307	0.306	0.3	100	0.00
70	T	2,3,4,6-Tetrachlorophenol	*	5.000	4.575	8.5	98	0.00
71	T	Diethyl phthalate		1.338	1.124	16.0	84	0.00
72	T	Fluorene		1.297	1.169	9.9	93	0.00
73	T	4-Chlorophenyl phenyl ether		0.663	0.586	11.6	94	0.00
74	T	4-Nitroaniline		0.304	0.274	9.9	91	0.00
75	T	4,6-Dinitro-o-cresol	*	5.000	4.971	0.6	107	0.00
76	T	NDPA/DPA		1.090	0.998	8.4	93	0.00
77	T	Azobenzene		1.322	1.129	14.6	87	0.00
78	S	2,4,6-Tribromophenol	*	5.000	3.927	21.5#	88	0.00
79	T	4-Bromophenyl phenyl ether		0.352	0.306	13.1	91	0.00
80	T	Hexachlorobenzene		0.370	0.301	18.6	85	0.00
81	T	Pentachlorophenol	*	5.000	4.415	11.7	97	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	100	0.00
88	T	Phenanthrene		1.068	0.908	15.0	91	0.00
89	T	Anthracene		1.052	0.922	12.4	90	0.00
90	T	Carbazole		0.921	0.817	11.3	89	0.00
91	T	Di-n-butylphthalate		1.160	0.928	20.0	85	0.00
92	T	Fluoranthene		1.197	1.019	14.9	88	0.00
93	T	Benzidine	*	5.000	4.281	14.4	90	0.00
94	T	Pyrene		1.273	1.105	13.2	88	0.00
95	S	4-Terphenyl-d14		0.819	0.703	14.2	88	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\231206lvi\
Data File : ABN1206.D
Acq On : 6 Dec 2023 7:03 am
Operator : SV107:sz
Sample : wg1860349-3,32,,ABN LVI CCV Lot #10166
Misc : wg1860349,,ical20485
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 07:31:29 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:31:13 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	*	5.000	3.886	22.3#	88	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	103	0.00
104	T	Benzo(a)anthracene		1.358	1.200	11.6	96	0.00
105	T	3,3'-Dichlorobenzidine		0.462	0.391	15.4	94	0.00
106	T	Chrysene		1.352	1.148	15.1	92	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	5.000	3.954	20.9#	86	0.00
108	T	Di-n-octylphthalate	*	5.000	3.792	24.2#	84	0.00
109	T	Benzo(b)fluoranthene		1.265	1.079	14.7	90	0.00
110	T	Benzo(k)fluoranthene		1.222	1.075	12.0	85	0.00
111	T	Benzo(a)pyrene		1.086	0.938	13.6	88	0.00
112	I	IS1_Perylene-d12		1.000	1.000	0.0	98	0.00
113	T	Indeno(1,2,3-cd)pyrene		0.880	0.829	5.8	98	0.00
114	T	Dibenzo(a,h)anthracene		0.987	0.921	6.7	93	0.00
115	T	Benzo(ghi)perylene		0.995	0.925	7.0	92	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231206lvi\
Data File : ABN1206.D
Acq On : 6 Dec 2023 7:03 am
Operator : SV107:sz
Sample : wg1860349-3,32,,ABN LVI CCV Lot #10166
Misc : wg1860349,,ical20485
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 07:31:29 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:31:13 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.434	152	27238	4.000	ug/ml	0.00
34) IS1_Naphthalene-d8	7.851	136	101480	4.000	ug/ml	0.00
62) IS1_Acenaphthene-d10	9.610	164	59826	4.000	ug/ml	0.00
87) IS1_Phenanthrene-d10	11.045	188	118224	4.000	ug/ml	0.00
103) IS1_Chrysene-d12	13.668	240	99775	4.000	ug/ml	0.00
112) IS1_Perylene-d12	15.133	264	100806	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.528	112	35640	4.847	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 96.94%			
7) Phenol-d6	6.063	99	44498	4.806	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 96.12%			
19) Nitrobenzene-d5	7.087	82	39860	4.544	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 181.76%#			
45) 2-Fluorobiphenyl	8.975	172	90682	4.385	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 175.40%#			
78) 2,4,6-Tribromophenol	10.380	330	9058	3.927	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 78.54%			
95) 4-Terphenyl-d14	12.621	244	103924	4.291	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 171.64%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.116	74	24982	5.038	ug/ml#	60
3) Pyridine	2.152	79	43241	4.898	ug/ml#	66
5) Aniline	6.028	93	58702	4.785	ug/ml	96
6) 2-Chlorophenol	6.169	128	38749	4.774	ug/ml	95
8) Phenol	6.081	94	49533	4.989	ug/ml	93
9) Bis(2-chloroethyl)ether	6.157	93	38610	4.690	ug/ml#	80
10) 1,3-Dichlorobenzene	6.357	146	46354	4.735	ug/ml	98
11) 1,4-Dichlorobenzene	6.451	146	46918	4.686	ug/ml	99
12) 1,2-Dichlorobenzene	6.628	146	45219	4.750	ug/ml	99
13) Benzyl alcohol	6.640	79	29821	4.603	ug/ml	97
14) Bis(2-chloroisopropyl)...	6.822	45	64127	3.846	ug/ml#	63
15) 2-Methylphenol	6.810	108	33499	4.736	ug/ml	97
16) Hexachloroethane	7.022	117	17082	4.377	ug/ml#	64
17) n-Nitrosodi-n-propylamine	6.963	70	26350	4.327	ug/ml#	92
18) 3-Methylphenol/4-Methy...	6.998	108	35588	4.676	ug/ml	97
20) Nitrobenzene	7.110	77	40765	4.520	ug/ml	99
21) Isophorone	7.386	82	70482	4.457	ug/ml	96
22) 2-Nitrophenol	7.463	139	19768	4.763	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231206lvi\
Data File : ABN1206.D
Acq On : 6 Dec 2023 7:03 am
Operator : SV107:sz
Sample : wg1860349-3,32,,ABN LVI CCV Lot #10166
Misc : wg1860349,,ical20485
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 07:31:29 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:31:13 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	7.563	107	37101	4.520	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.657	93	48020	4.398	ug/ml	98
25) 2,4-Dichlorophenol	7.728	162	34492	4.695	ug/ml	96
26) 1,2,4-Trichlorobenzene	7.810	180	39363	4.562	ug/ml	98
35) Naphthalene	7.875	128	115683	4.540	ug/ml	99
36) Benzoic Acid	7.645	105	19649	4.274	ug/ml	96
37) 4-Chloroaniline	7.957	65	14708	4.218	ug/ml	87
38) Hexachlorobutadiene	8.039	225	23391	4.634	ug/ml	98
39) p-Chloro-m-cresol	8.481	107	32373	4.576	ug/ml	99
40) 2-Methylnaphthalene	8.592	142	75612	4.463	ug/ml	96
41) 1-Methylnaphthalene	8.686	115	25224	4.204	ug/ml	97
42) Hexachlorocyclopentadiene	8.769	237	27184	4.810	ug/ml	99
43) 2,4,6-Trichlorophenol	8.886	196	25103	4.702	ug/ml	98
44) 2,4,5-Trichlorophenol	8.916	196	27565	4.757	ug/ml	98
46) 2-Chloronaphthalene	9.069	162	78694	4.526	ug/ml	97
47) 2-Nitroaniline	9.181	138	21030	4.120	ug/ml	95
48) 1,4-Dinitrobenzene	9.316	168	10935	4.350	ug/ml	83
49) 1,3-Dinitrobenzene	9.386	168	12699	4.421	ug/ml#	1
50) Dimethyl phthalate	9.386	163	89735	4.344	ug/ml#	98
51) Acenaphthylene	9.469	152	124157	4.421	ug/ml	99
52) 2,6-Dinitrotoluene	9.428	165	18474	4.360	ug/ml#	78
53) 1,2-Dinitrobenzene	9.469	168	8527	4.585	ug/ml#	1
63) 3-Nitroaniline	9.580	138	20328	4.447	ug/ml#	98
64) Acenaphthene	9.639	154	74996	4.498	ug/ml	92
65) 2,4-Dinitrophenol	9.680	184	11299	4.893	ug/ml	89
66) Dibenzofuran	9.810	168	115271	4.609	ug/ml	94
67) 2,4-Dinitrotoluene	9.816	165	25997	4.396	ug/ml	95
68) 4-Nitrophenol	9.769	65	16542	3.589	ug/ml#	86
69) 2,3,5,6-Tetrachlorophenol	9.904	232	22868	4.987	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	9.945	232	22905	4.575	ug/ml	99
71) Diethyl phthalate	10.075	149	84028	4.200	ug/ml	98
72) Fluorene	10.145	166	87400	4.505	ug/ml	93
73) 4-Chlorophenyl phenyl ...	10.163	204	43844	4.424	ug/ml	90
74) 4-Nitroaniline	10.169	138	20467	4.497	ug/ml	88
75) 4,6-Dinitro-o-cresol	10.204	198	15418	4.971	ug/ml#	66
76) NDPA/DPA	10.280	169	74632	4.577	ug/ml	98
77) Azobenzene	10.316	77	84462	4.273	ug/ml	97
79) 4-Bromophenyl phenyl e...	10.633	248	22896	4.345	ug/ml#	89
80) Hexachlorobenzene	10.680	284	22481	4.066	ug/ml#	90
81) Pentachlorophenol	10.875	266	14417	4.415	ug/ml	98
88) Phenanthrene	11.069	178	134212	4.250	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231206lvi\
Data File : ABN1206.D
Acq On : 6 Dec 2023 7:03 am
Operator : SV107:sz
Sample : wg1860349-3,32,,ABN LVI CCV Lot #10166
Misc : wg1860349,,ical20485
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 07:31:29 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:31:13 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Anthracene	11.116	178	136315	4.383	ug/ml	98
90) Carbazole	11.280	167	120760	4.436	ug/ml	98
91) Di-n-butylphthalate	11.674	149	137108	4.000	ug/ml#	98
92) Fluoranthene	12.216	202	150644	4.258	ug/ml#	93
93) Benzidine	12.369	184	88175	4.281	ug/ml#	96
94) Pyrene	12.433	202	163359	4.341	ug/ml	99
96) Butyl benzyl phthalate	13.145	149	55531	3.886	ug/ml	93
104) Benzo(a)anthracene	13.663	228	149663	4.418	ug/ml	99
105) 3,3'-Dichlorobenzidine	13.663	252	48797	4.237	ug/ml	98
106) Chrysene	13.698	228	143142	4.246	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	13.780	149	84196	3.954	ug/ml#	92
108) Di-n-octylphthalate	14.457	149	132158	3.792	ug/ml#	75
109) Benzo(b)fluoranthene	14.762	252	134621	4.268	ug/ml#	96
110) Benzo(k)fluoranthene	14.786	252	134069	4.398	ug/ml#	96
111) Benzo(a)pyrene	15.074	252	116933	4.318	ug/ml#	96
113) Indeno(1,2,3-cd)pyrene	16.098	276	104472M6	4.709	ug/mL	
114) Dibenzo(a,h)anthracene	16.121	278	116073	4.667	ug/ml	96
115) Benzo(ghi)perylene	16.345	276	116611	4.653	ug/ml	94

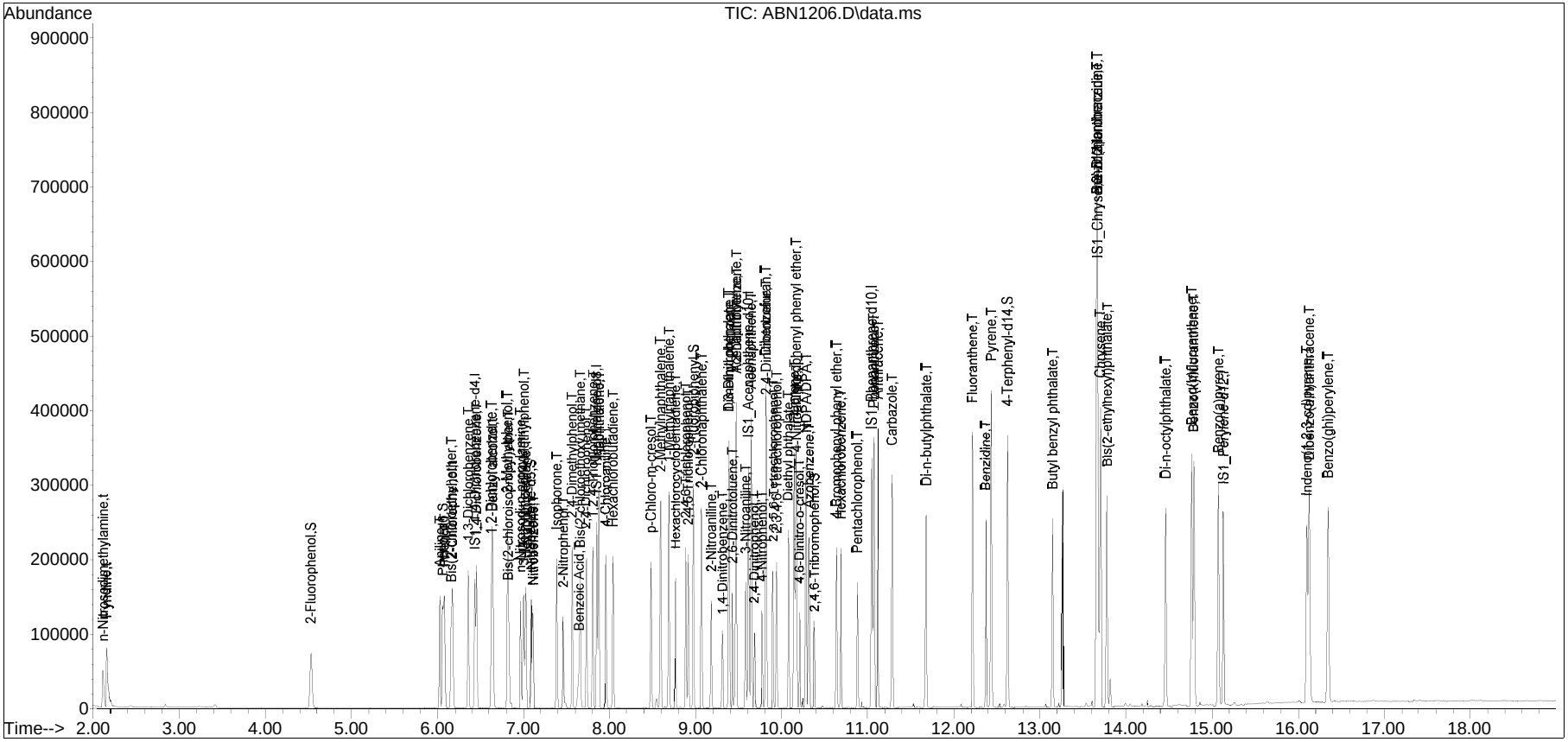
(#) = qualifier out of range (m) = manual integration (+) = signals summed

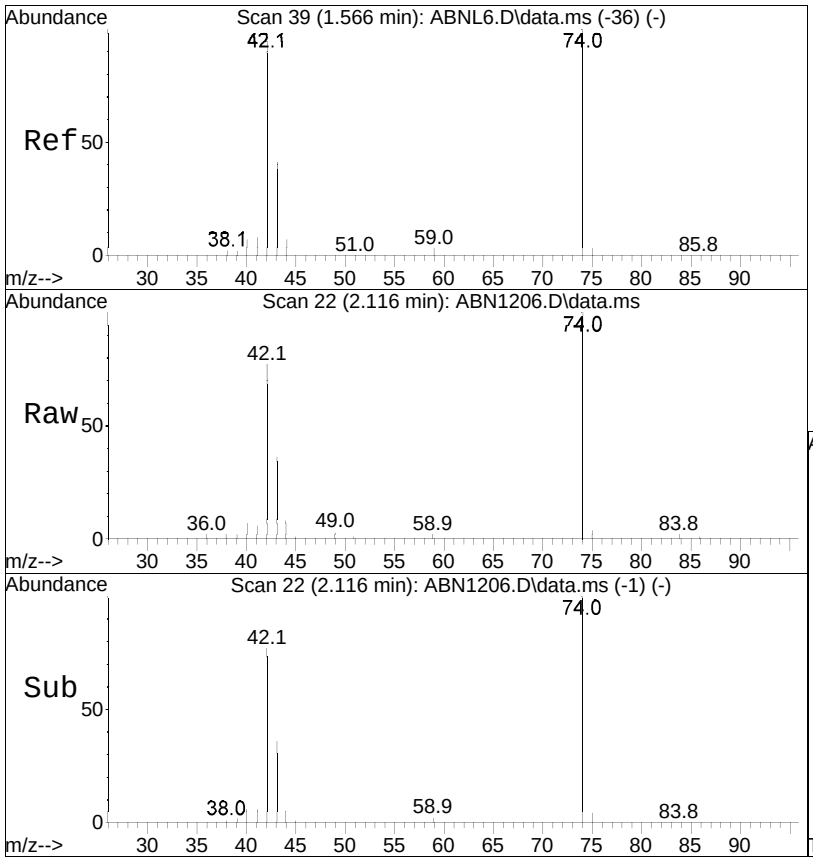
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231206lvi\
Data File : ABN1206.D
Acq On : 6 Dec 2023 7:03 am
Operator : SV107:sz
Sample : wg1860349-3,32,,ABN LVI CCV Lot #10166
Misc : wg1860349,,ical20485
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 07:31:29 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:31:13 2023
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

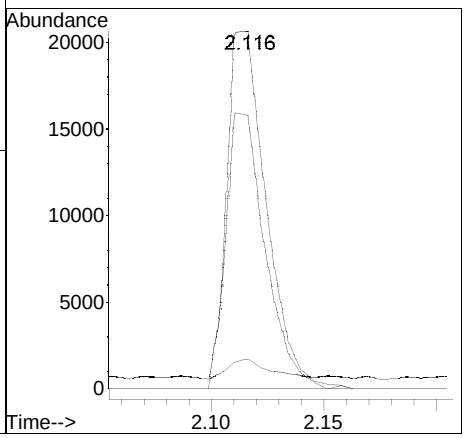


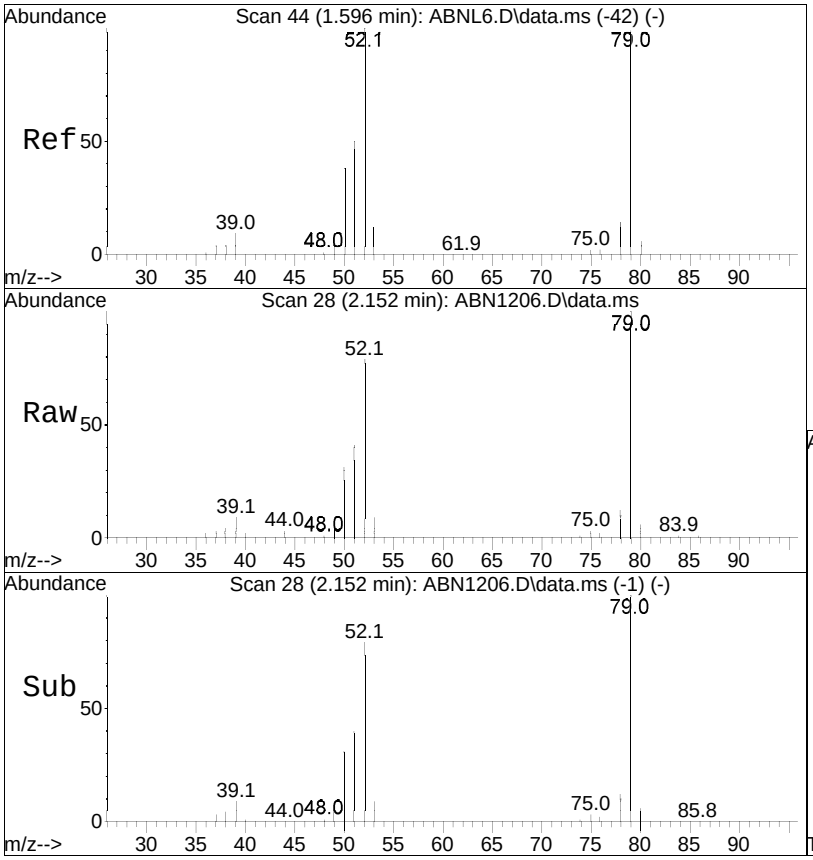


#2
n-Nitrosodimethylamine
Concen: 5.04 ug/ml
RT: 2.116 min Scan# 22
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 74 Resp: 24982

Ion	Ratio	Lower	Upper
74	100		
42	76.9	100.0	150.0#
44	7.4	6.7	10.1

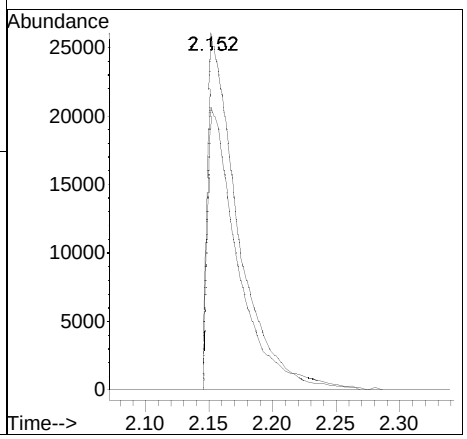


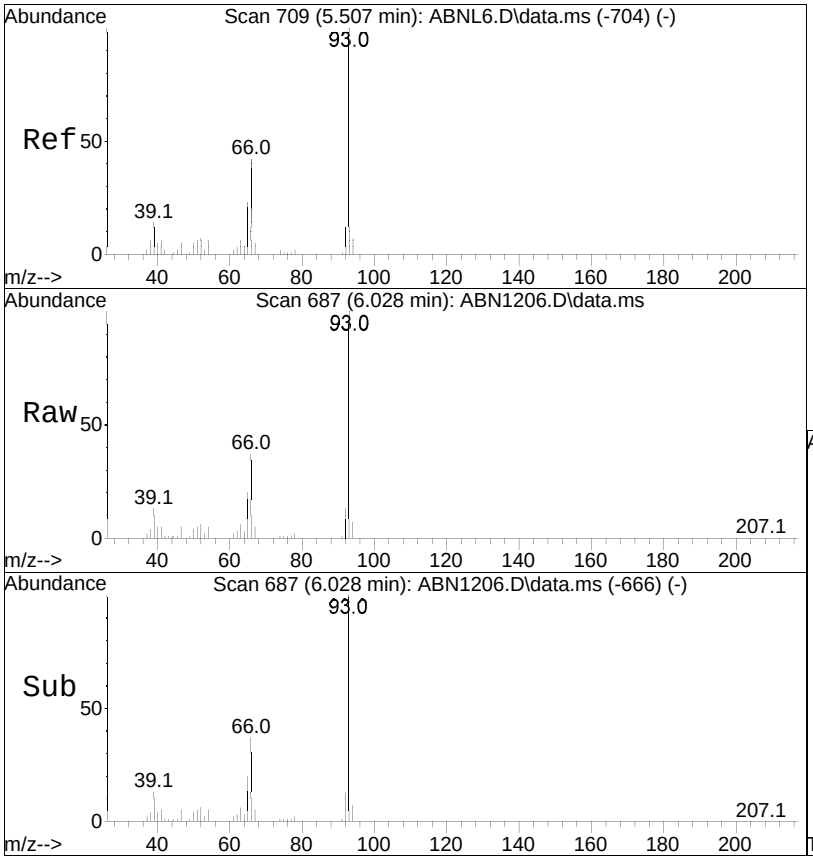


#3
Pyridine
Concen: 4.90 ug/ml
RT: 2.152 min Scan# 28
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 79 Resp: 43241

Ion	Ratio	Lower	Upper
79	100		
52	79.1	93.1	139.7#

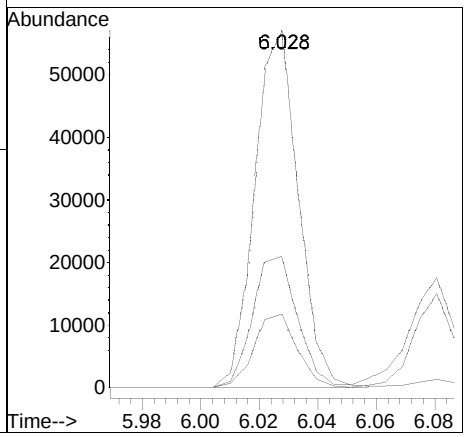


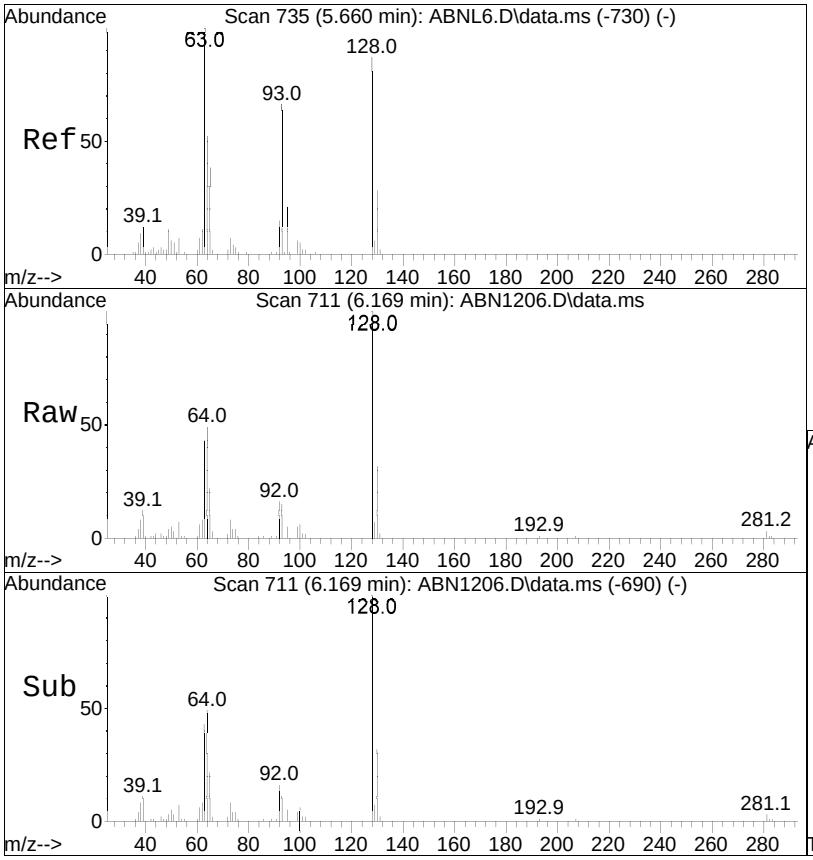


#5
Aniline
Concen: 4.78 ug/ml
RT: 6.028 min Scan# 687
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 93 Resp: 58702

Ion	Ratio	Lower	Upper
93	100		
66	38.2	32.6	49.0
65	20.5	17.6	26.4

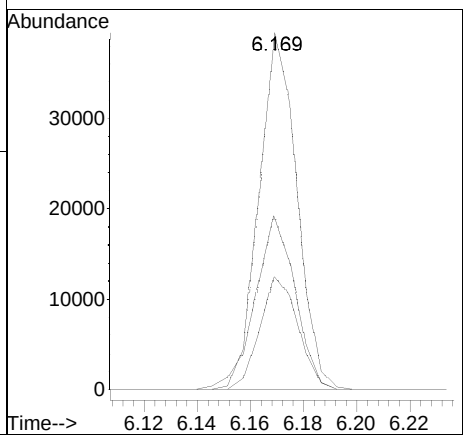


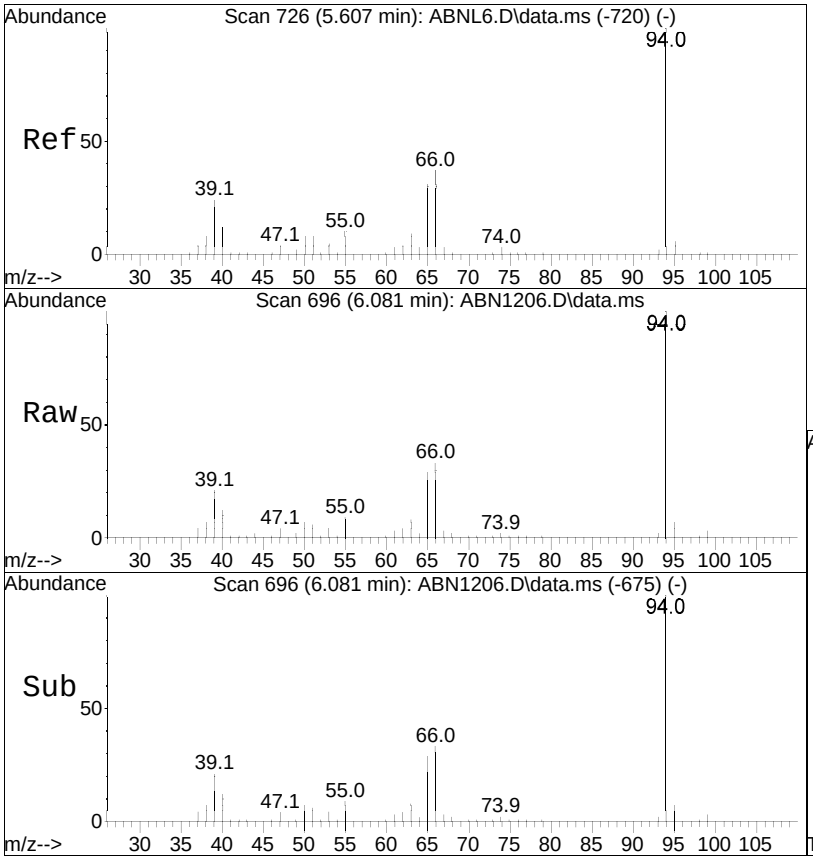


#6
2-Chlorophenol
Concen: 4.77 ug/ml
RT: 6.169 min Scan# 711
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:128 Resp: 38749

Ion	Ratio	Lower	Upper
128	100		
64	51.5	45.1	67.7
130	32.1	26.2	39.4

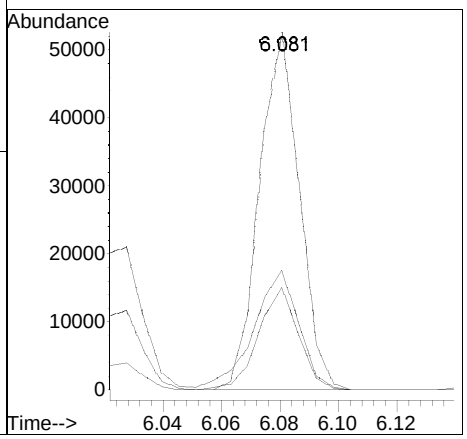


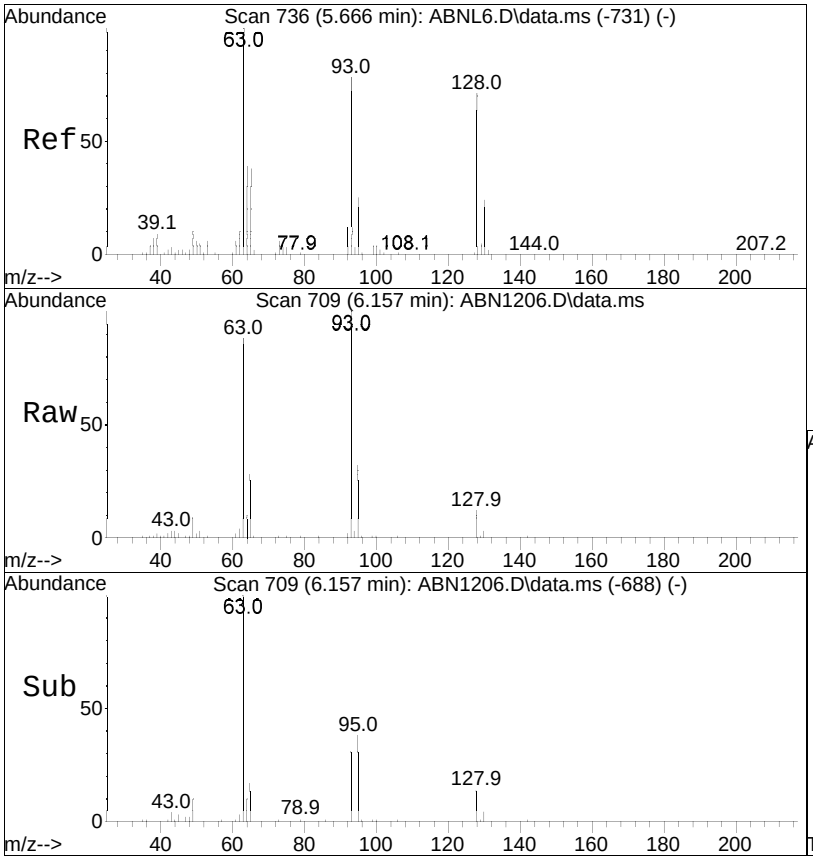


#8
Phenol
Concen: 4.99 ug/ml
RT: 6.081 min Scan# 696
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 94 Resp: 49533

Ion	Ratio	Lower	Upper
94	100		
65	28.7	26.0	39.0
66	38.1	33.8	50.8

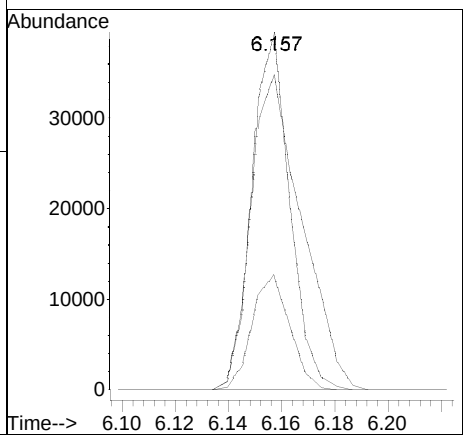


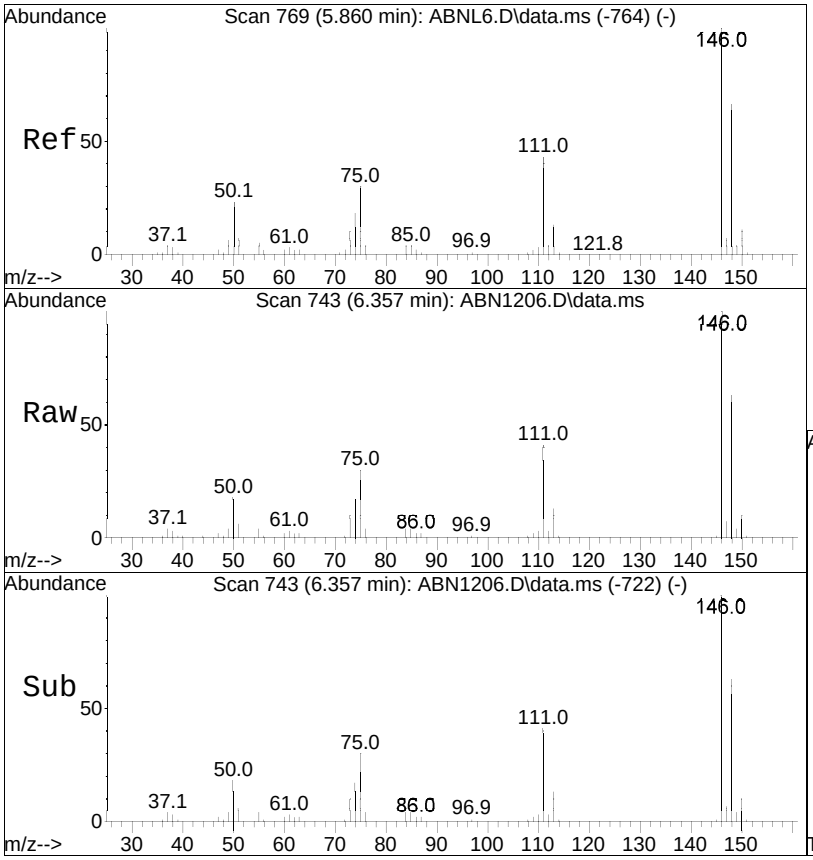


#9
Bis(2-chloroethyl)ether
Concen: 4.69 ug/ml
RT: 6.157 min Scan# 709
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 93 Resp: 38610

Ion	Ratio	Lower	Upper
93	100		
63	119.0	74.6	111.8#
95	32.3	25.9	38.9

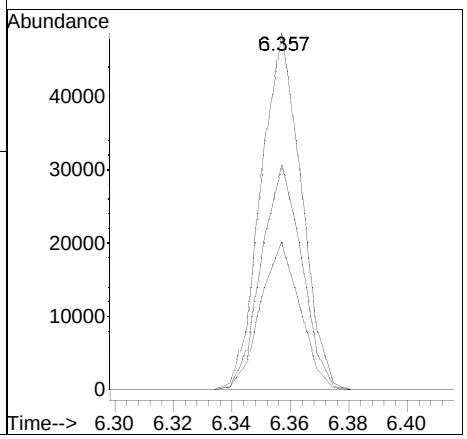


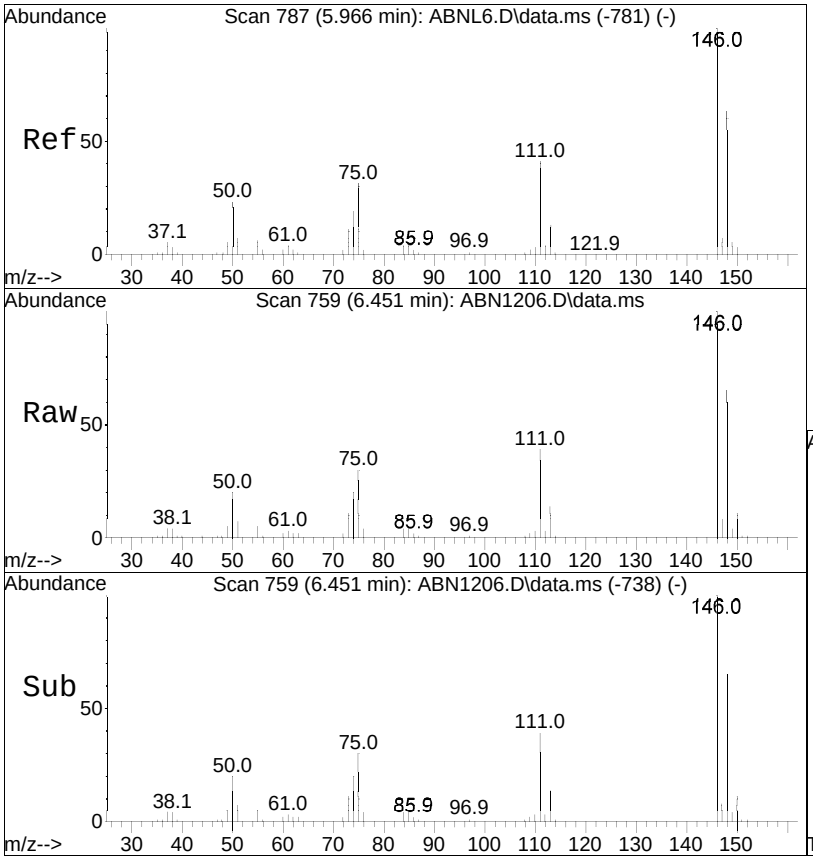


#10
1,3-Dichlorobenzene
Concen: 4.73 ug/ml
RT: 6.357 min Scan# 743
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:146 Resp: 46354

Ion	Ratio	Lower	Upper
146	100		
111	40.7	34.3	51.5
148	63.3	50.8	76.2

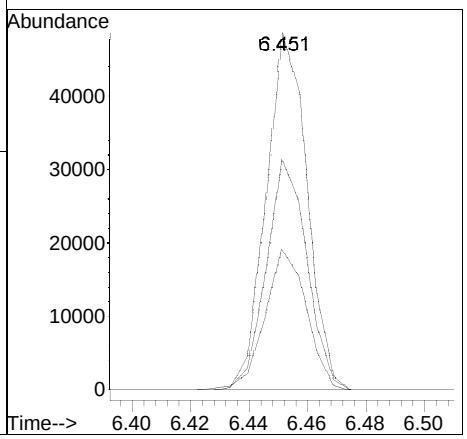


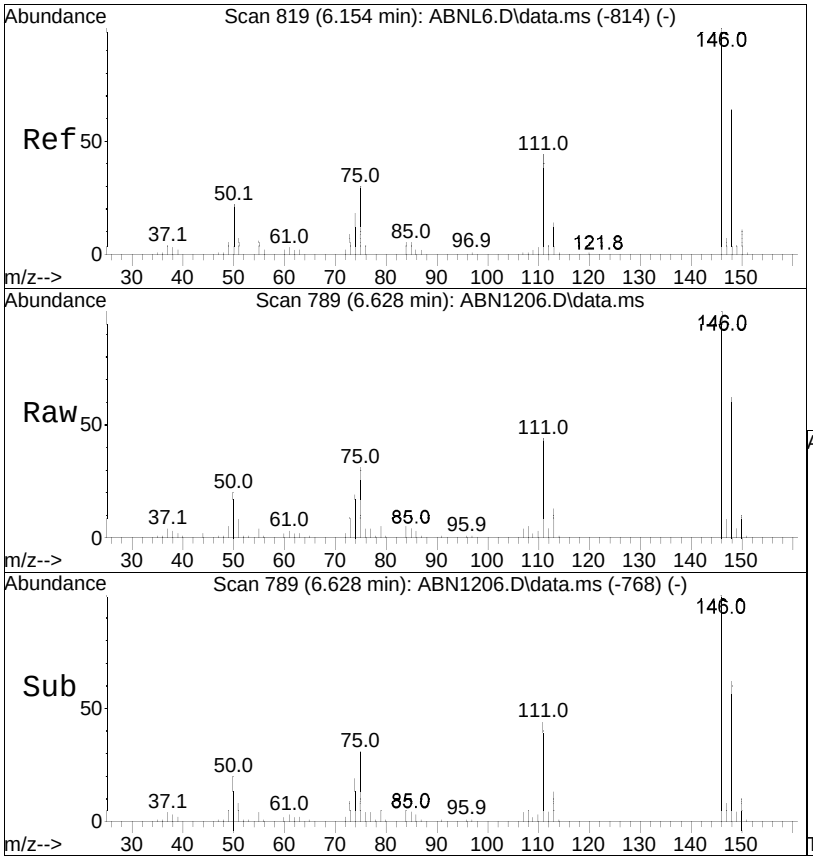


#11
1,4-Dichlorobenzene
Concen: 4.69 ug/ml
RT: 6.451 min Scan# 759
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:146 Resp: 46918

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.7	76.1
111	40.1	33.4	50.0

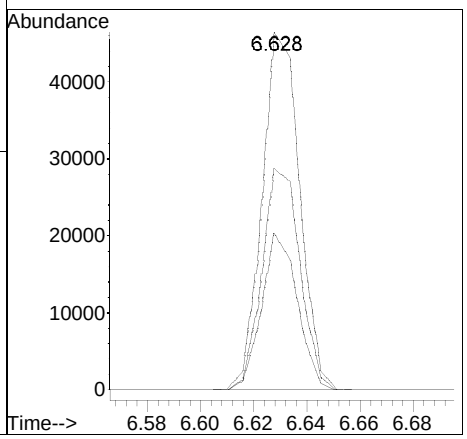


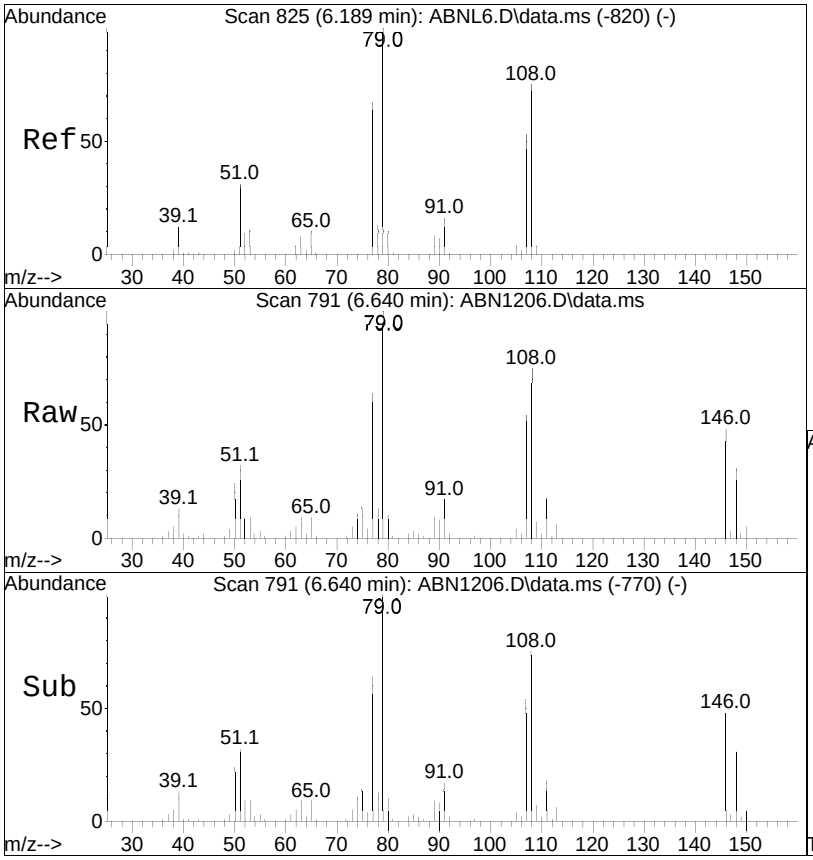


#12
1,2-Dichlorobenzene
Concen: 4.75 ug/ml
RT: 6.628 min Scan# 789
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:146 Resp: 45219

Ion	Ratio	Lower	Upper
146	100		
111	41.8	34.6	52.0
148	62.6	50.2	75.4

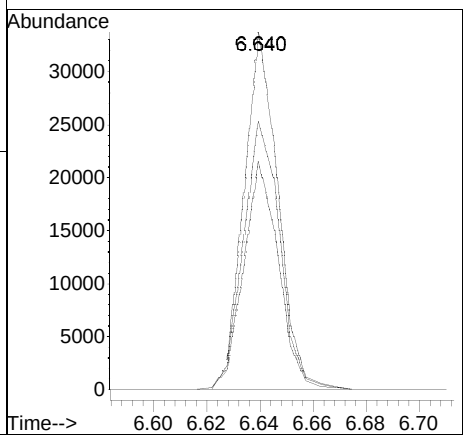


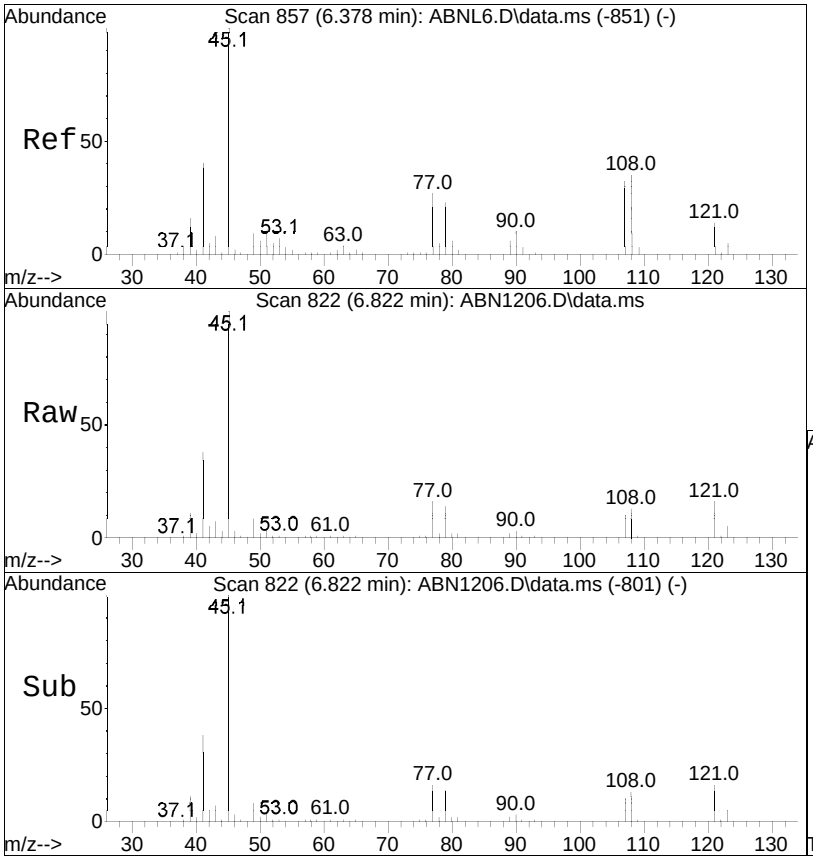


#13
Benzyl alcohol
Concen: 4.60 ug/ml
RT: 6.640 min Scan# 791
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 79 Resp: 29821

Ion	Ratio	Lower	Upper
79	100		
77	65.3	54.9	82.3
108	80.0	63.1	94.7

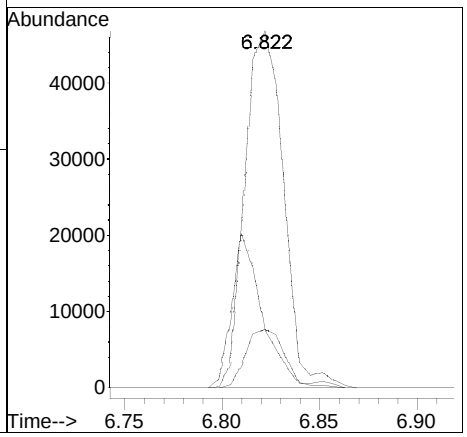


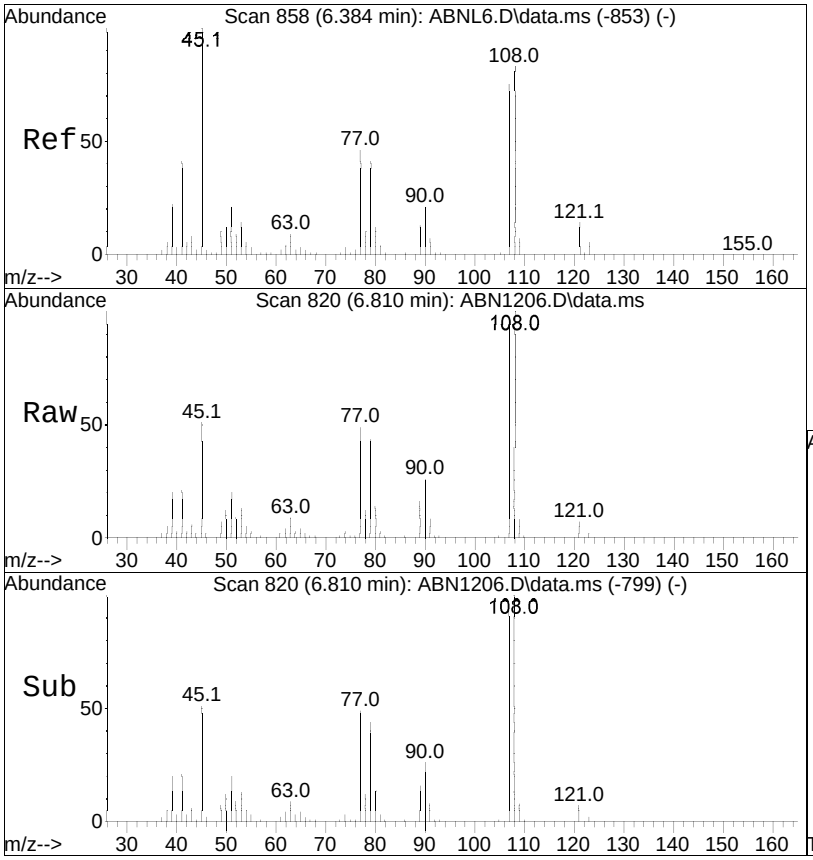


#14
Bis(2-chloroisopropyl)ether
Concen: 3.85 ug/ml
RT: 6.822 min Scan# 822
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 45 Resp: 64127

Ion	Ratio	Lower	Upper
45	100		
121	16.6	9.8	14.6#
77	35.1	6.1	9.1#

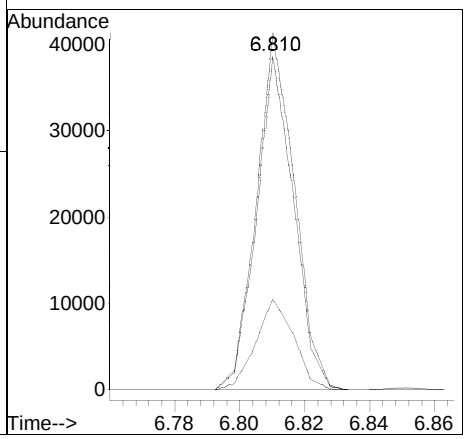


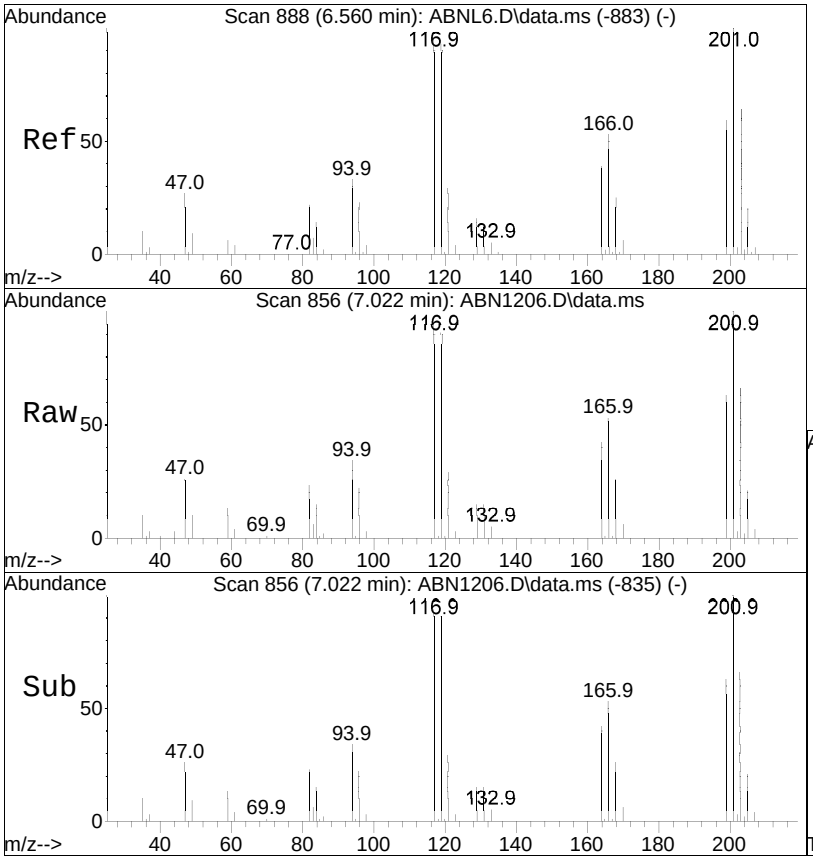


#15
2-Methylphenol
Concen: 4.74 ug/ml
RT: 6.810 min Scan# 820
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:108 Resp: 33499

Ion	Ratio	Lower	Upper
108	100		
107	91.0	70.7	106.1
90	25.5	18.7	28.1

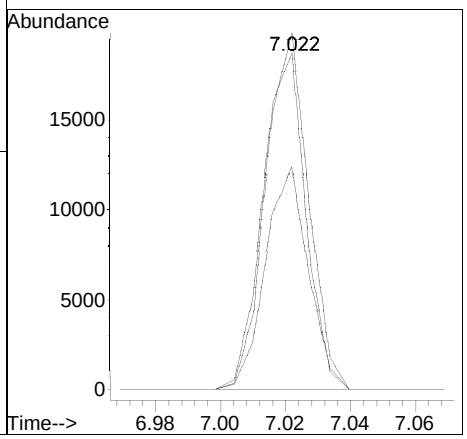


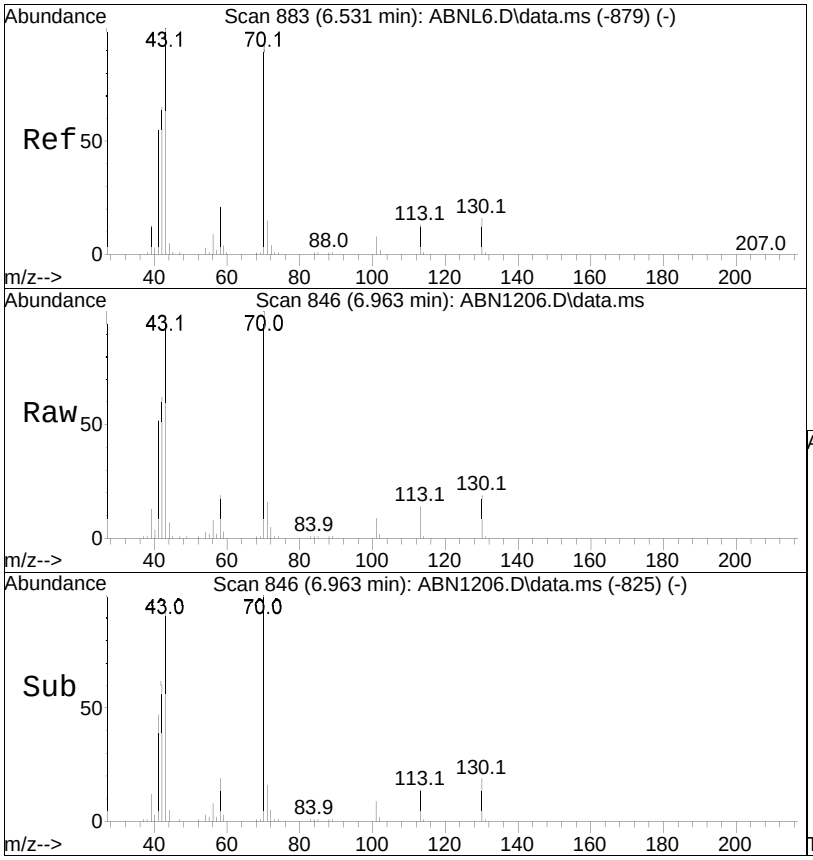


#16
Hexachloroethane
Concen: 4.38 ug/ml
RT: 7.022 min Scan# 856
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:117 Resp: 17082

Ion	Ratio	Lower	Upper
117	100		
201	105.8	58.6	87.8#
199	66.4	36.9	55.3#

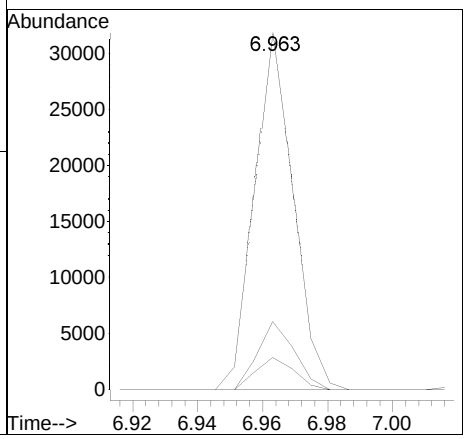


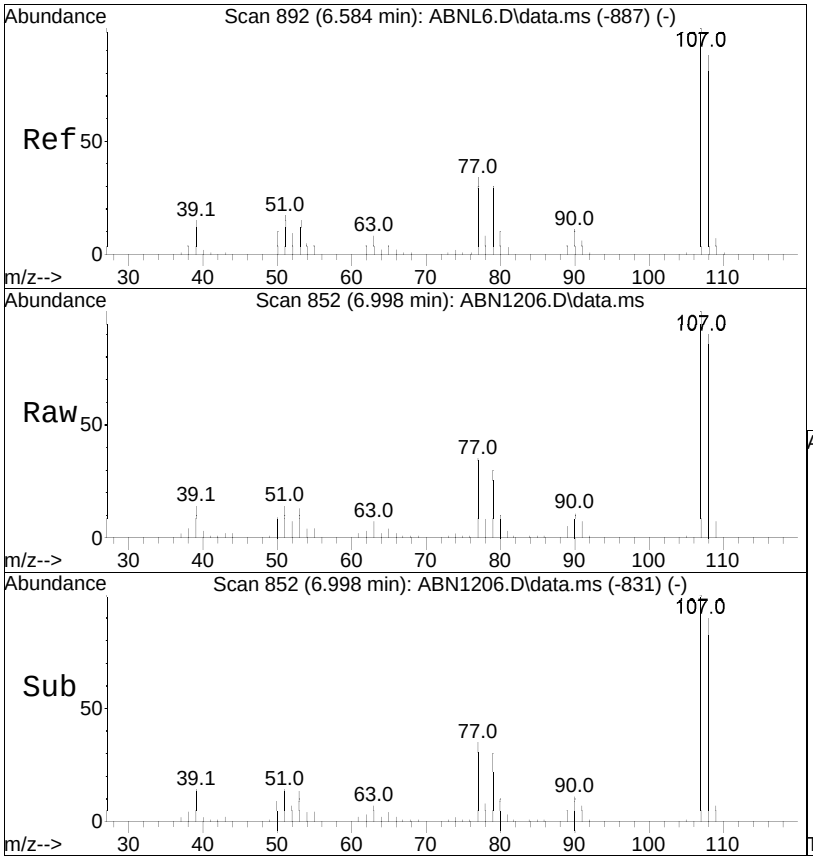


#17
n-Nitrosodi-n-propylamine
Concen: 4.33 ug/ml
RT: 6.963 min Scan# 846
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 70 Resp: 26350

Ion	Ratio	Lower	Upper
70	100		
130	18.0	18.2	27.4#
101	8.9	7.8	11.8

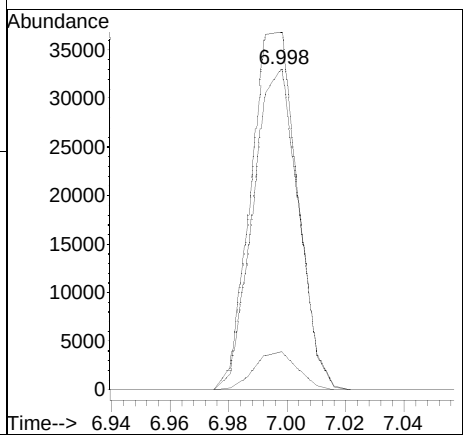


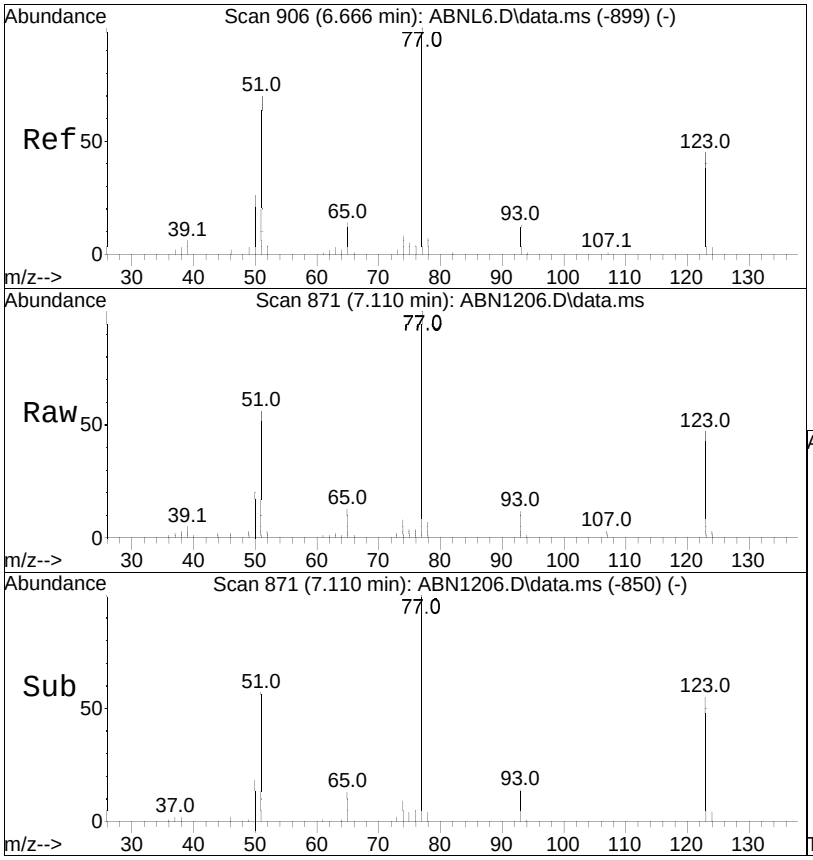


#18
3-Methylphenol/4-Methylphenol
Concen: 4.68 ug/ml
RT: 6.998 min Scan# 852
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:108 Resp: 35588

Ion	Ratio	Lower	Upper
108	100		
107	113.7	88.6	132.8
90	11.4	8.8	13.2

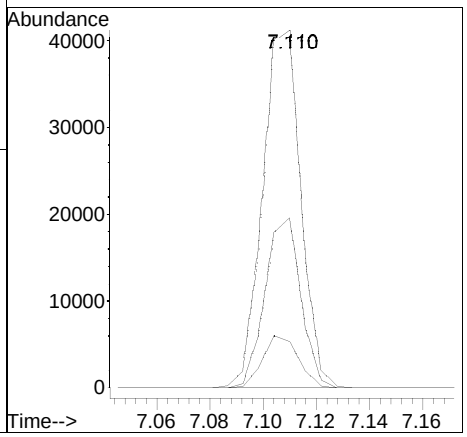


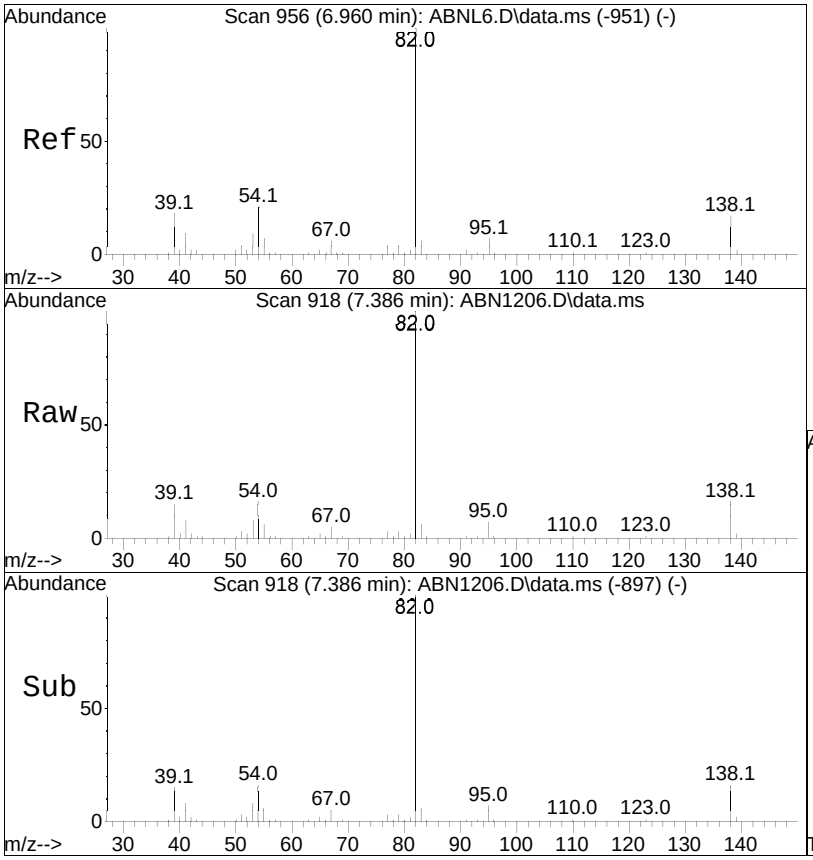


#20
Nitrobenzene
Concen: 4.52 ug/ml
RT: 7.110 min Scan# 871
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 77 Resp: 40765

Ion	Ratio	Lower	Upper
77	100		
123	44.7	36.3	54.5
65	13.8	11.6	17.4

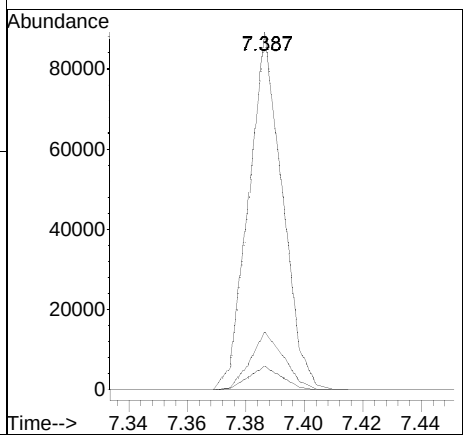


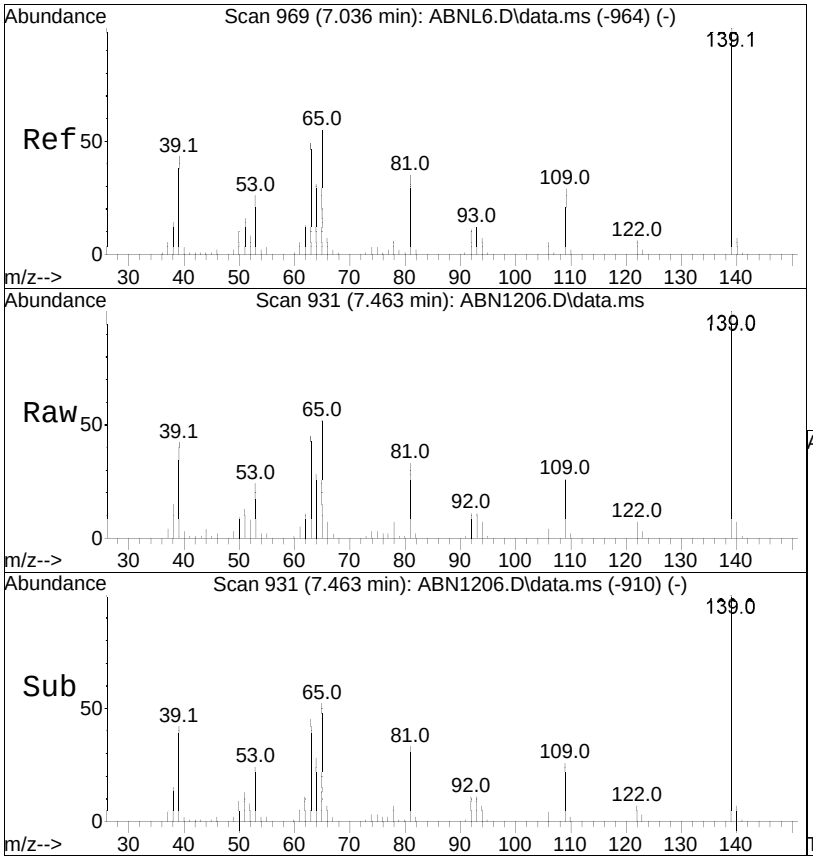


#21
Isophorone
Concen: 4.46 ug/ml
RT: 7.386 min Scan# 918
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 82 Resp: 70482

Ion	Ratio	Lower	Upper
82	100		
138	16.1	14.7	22.1
95	6.5	5.2	7.8

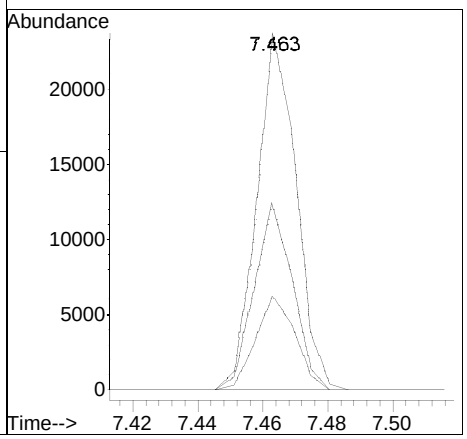


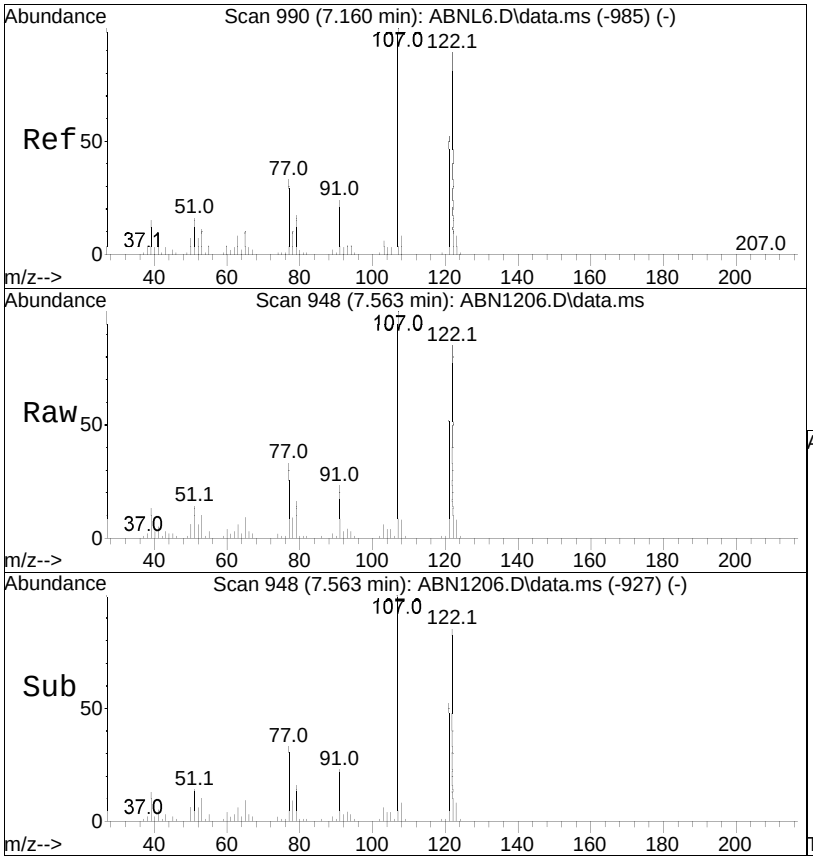


#22
2-Nitrophenol
Concen: 4.76 ug/ml
RT: 7.463 min Scan# 931
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:139 Resp: 19768

Ion	Ratio	Lower	Upper
139	100		
109	26.6	19.4	29.0
65	51.3	46.1	69.1

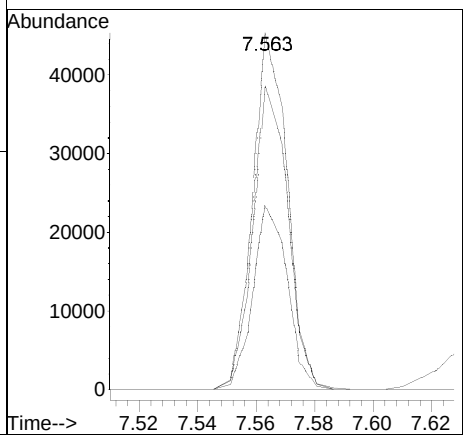


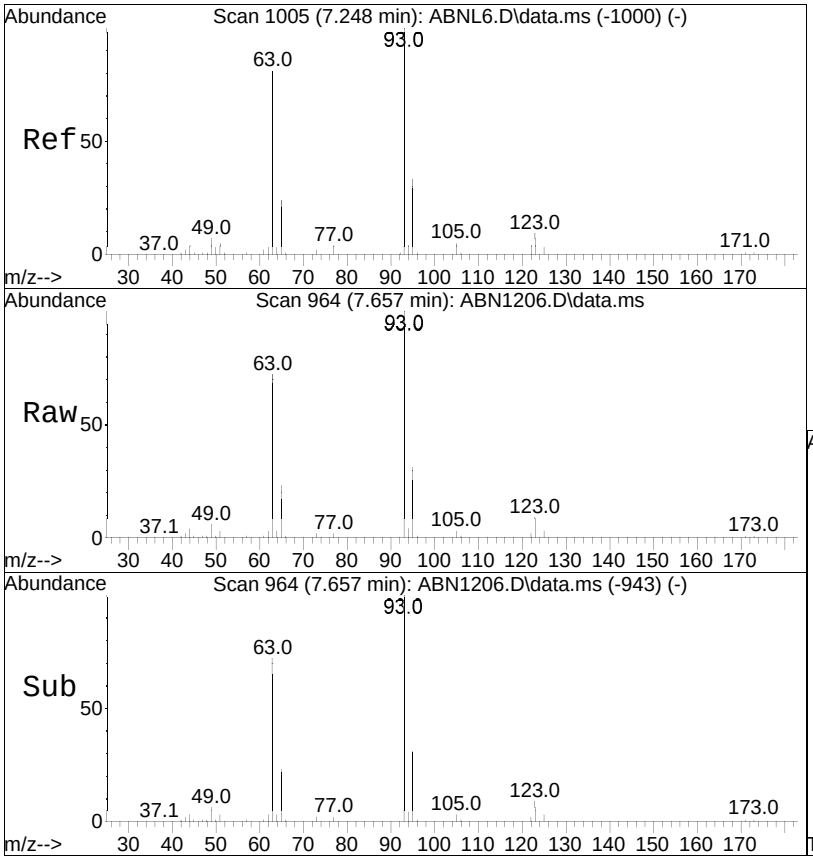


#23
2,4-Dimethylphenol
Concen: 4.52 ug/ml
RT: 7.563 min Scan# 948
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:107 Resp: 37101

Ion	Ratio	Lower	Upper
107	100		
121	51.6	40.0	60.0
122	85.9	70.2	105.4

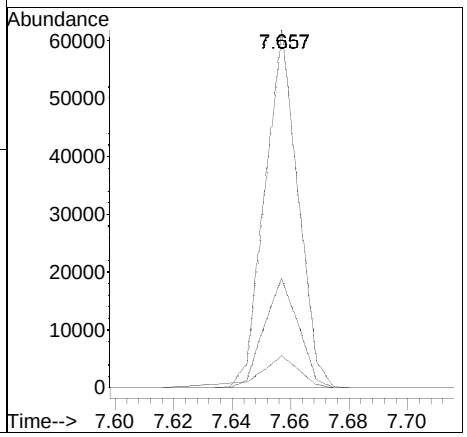


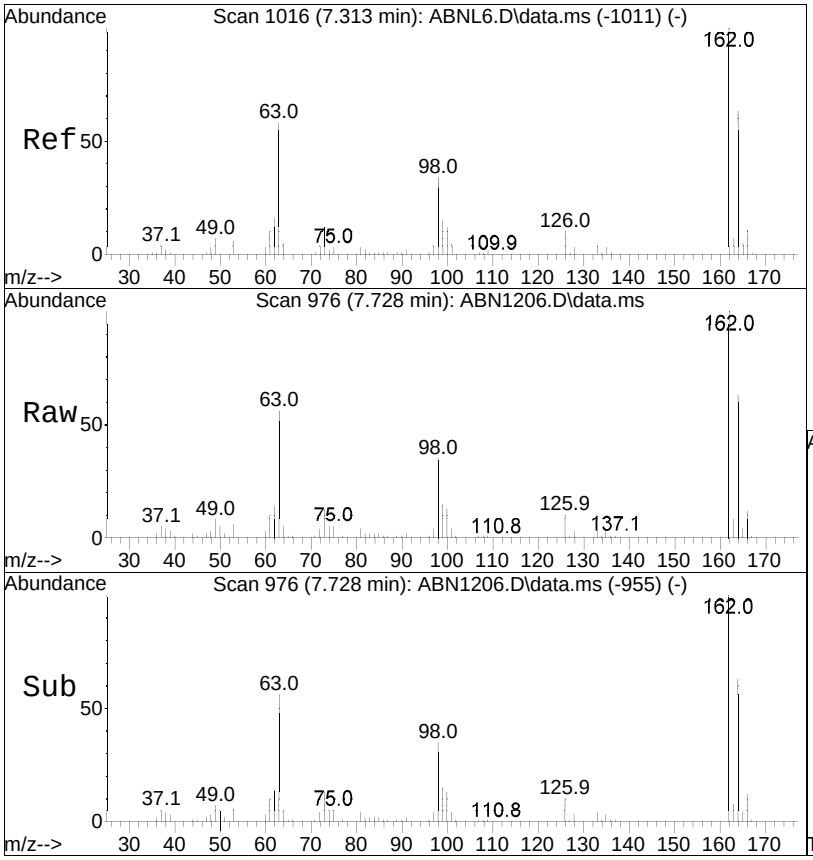


#24
Bis(2-chloroethoxy)methane
Concen: 4.40 ug/ml
RT: 7.657 min Scan# 964
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 93 Resp: 48020

Ion	Ratio	Lower	Upper
93	100		
95	31.7	25.8	38.8
123	11.3	10.1	15.1

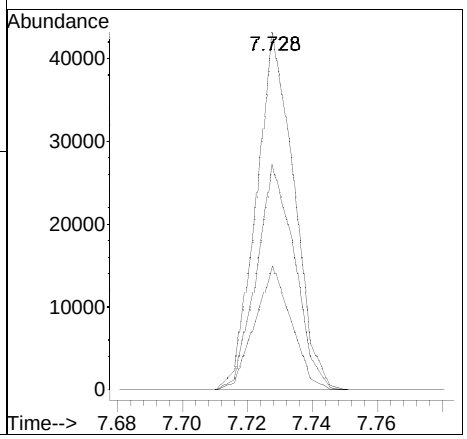


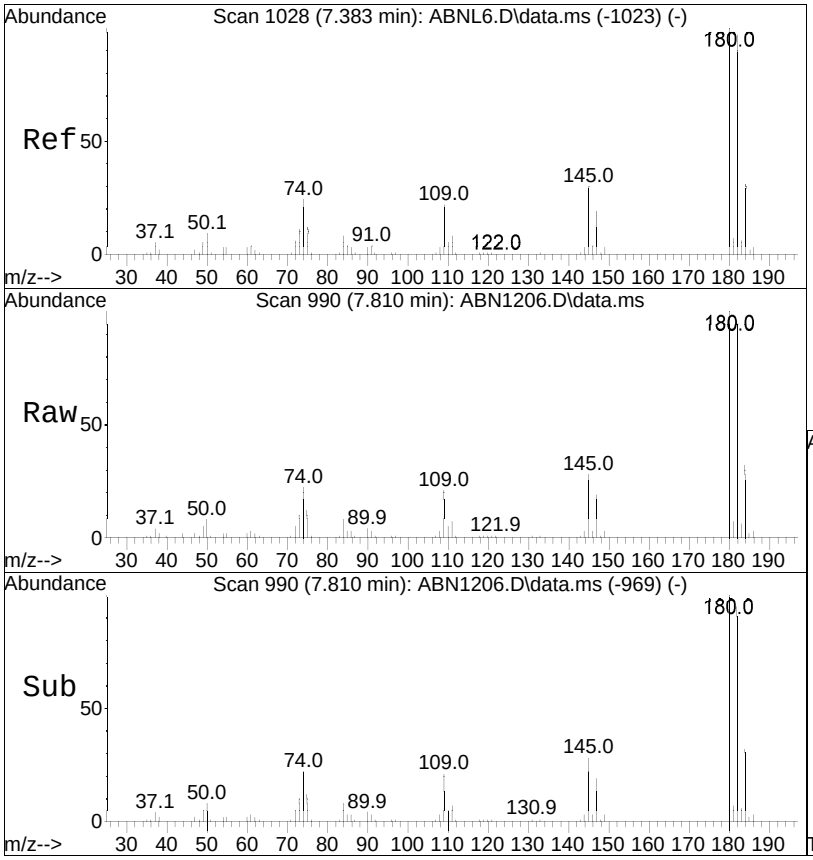


#25
2,4-Dichlorophenol
Concen: 4.70 ug/ml
RT: 7.728 min Scan# 976
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:162 Resp: 34492

Ion	Ratio	Lower	Upper
162	100		
164	63.8	51.0	76.4
98	33.6	32.2	48.2

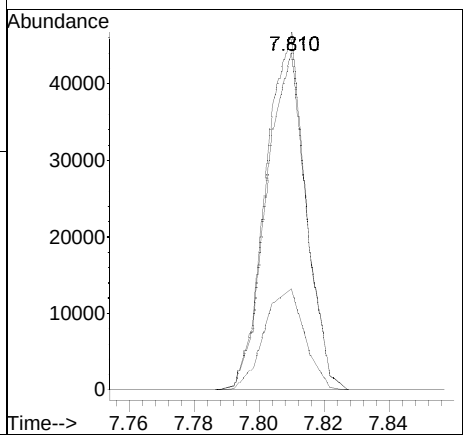


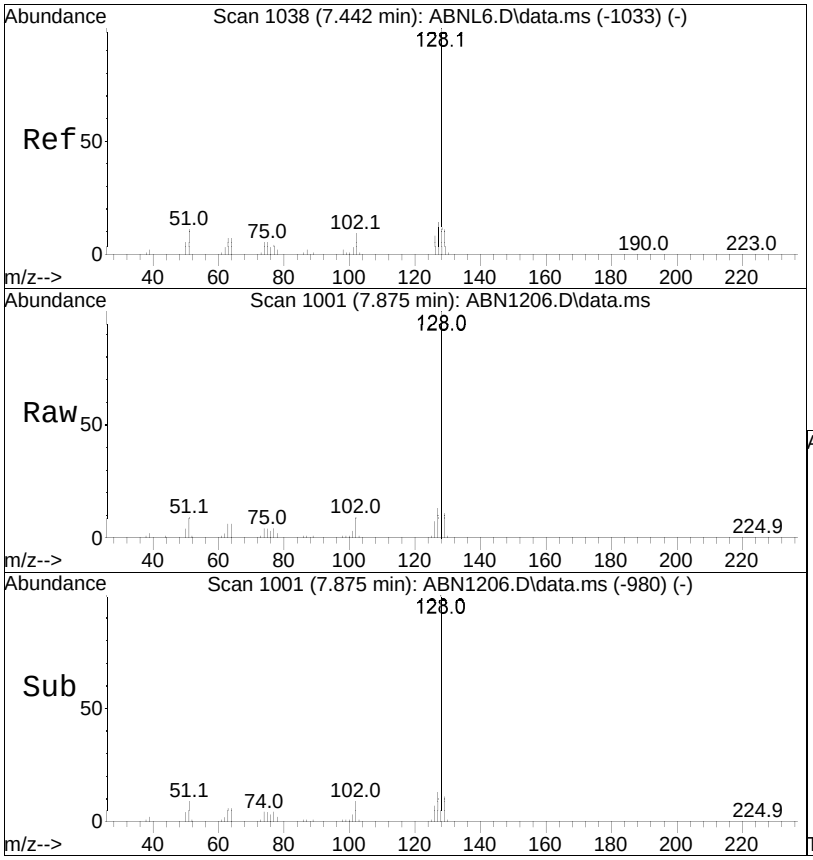


#26
1,2,4-Trichlorobenzene
Concen: 4.56 ug/ml
RT: 7.810 min Scan# 990
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:180 Resp: 39363

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.0	114.0
145	29.0	25.7	38.5

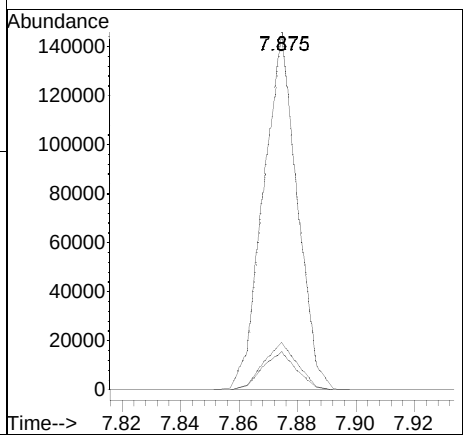


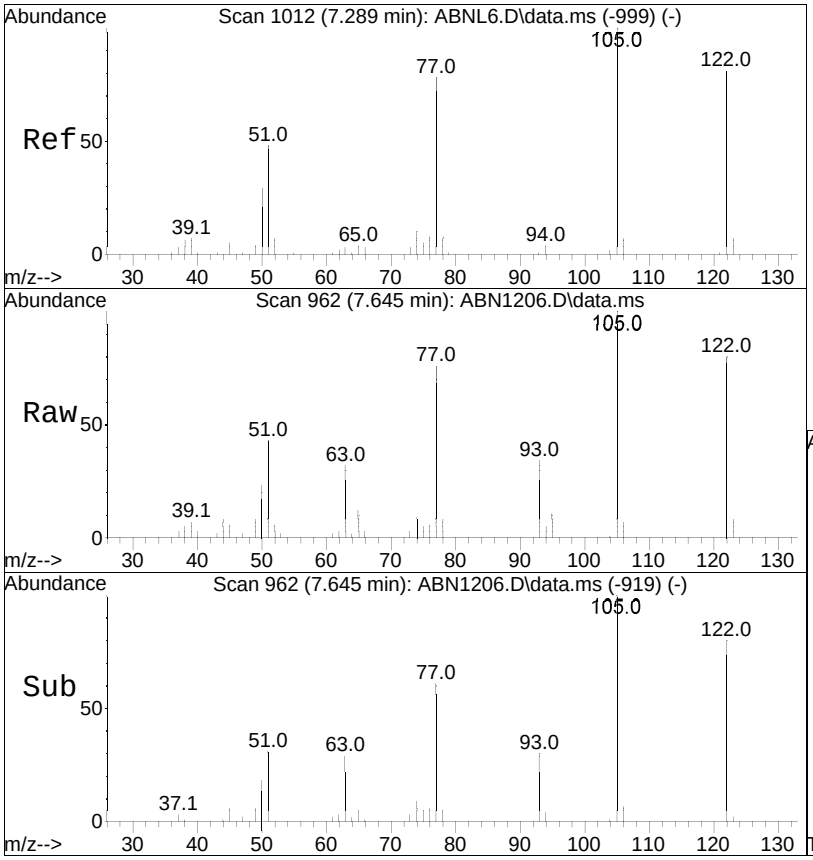


#35
Naphthalene
Concen: 4.54 ug/ml
RT: 7.875 min Scan# 1001
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:128 Resp: 115683

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.4	10.3	15.5

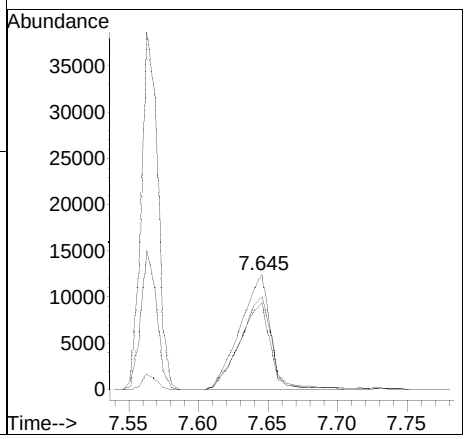


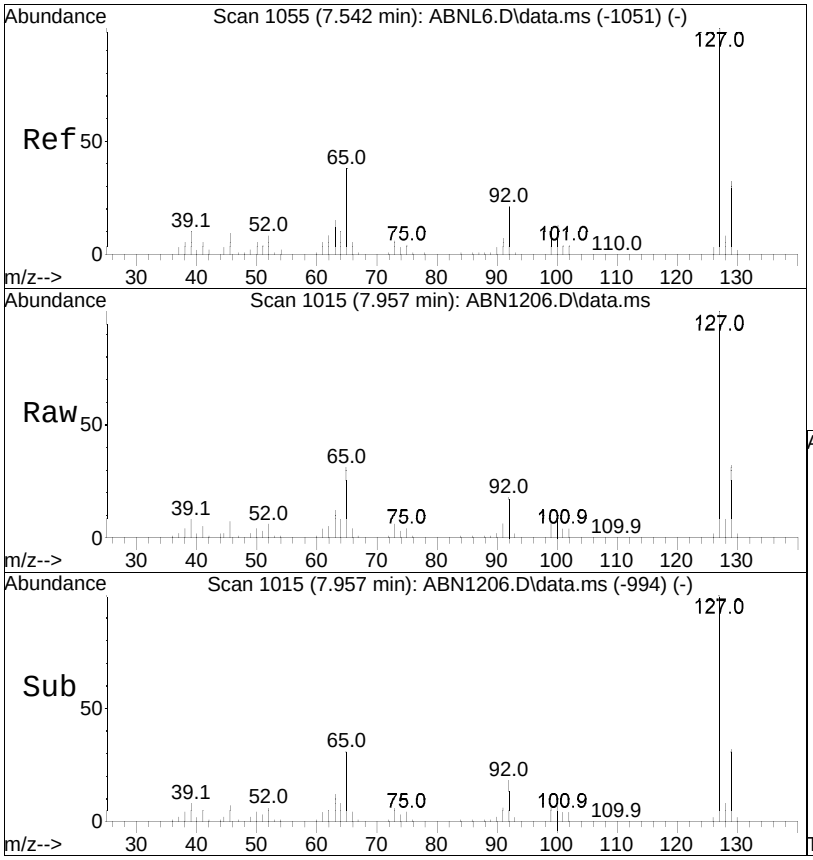


#36
Benzoic Acid
Concen: 4.27 ug/ml
RT: 7.645 min Scan# 962
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:105 Resp: 19649

Ion	Ratio	Lower	Upper
105	100		
122	80.5	59.9	89.9
77	76.7	60.1	90.1

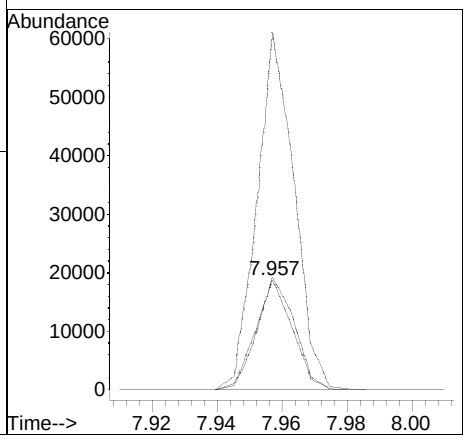


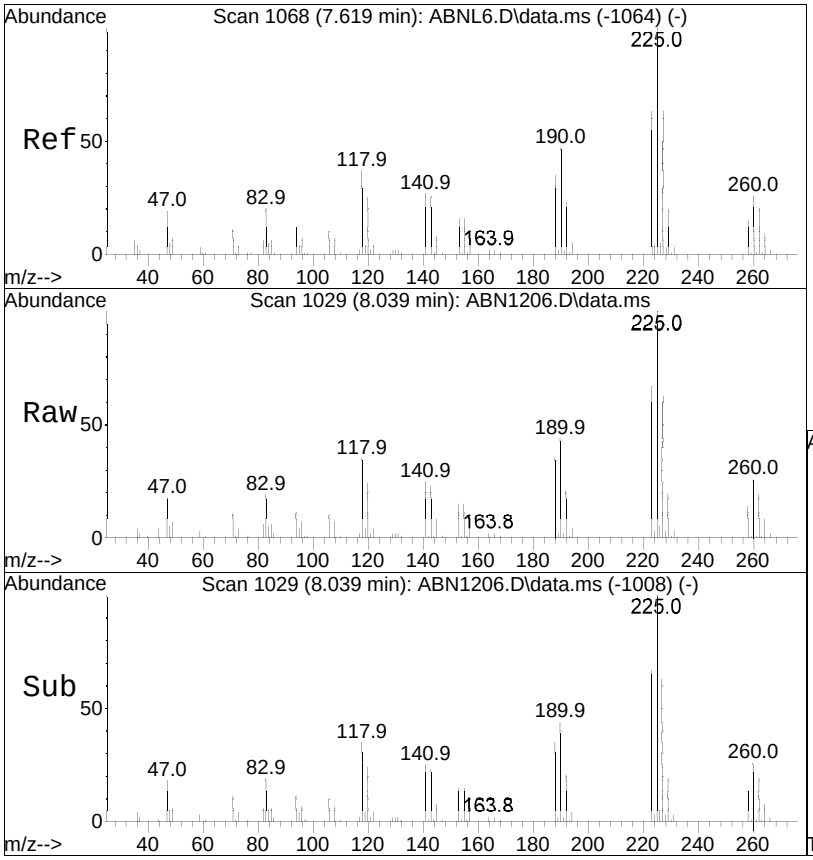


#37
4-Chloroaniline
Concen: 4.22 ug/ml
RT: 7.957 min Scan# 1015
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 65 Resp: 14708

Ion	Ratio	Lower	Upper
65	100		
127	326.0	237.6	356.4
129	103.7	76.3	114.5

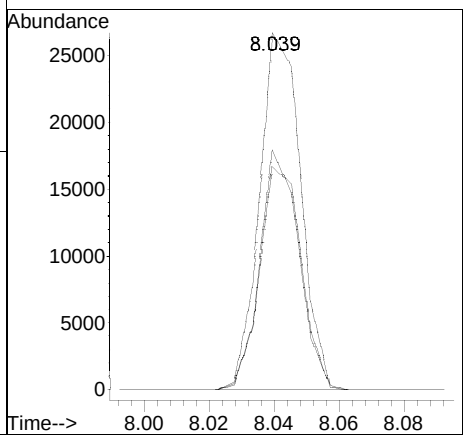


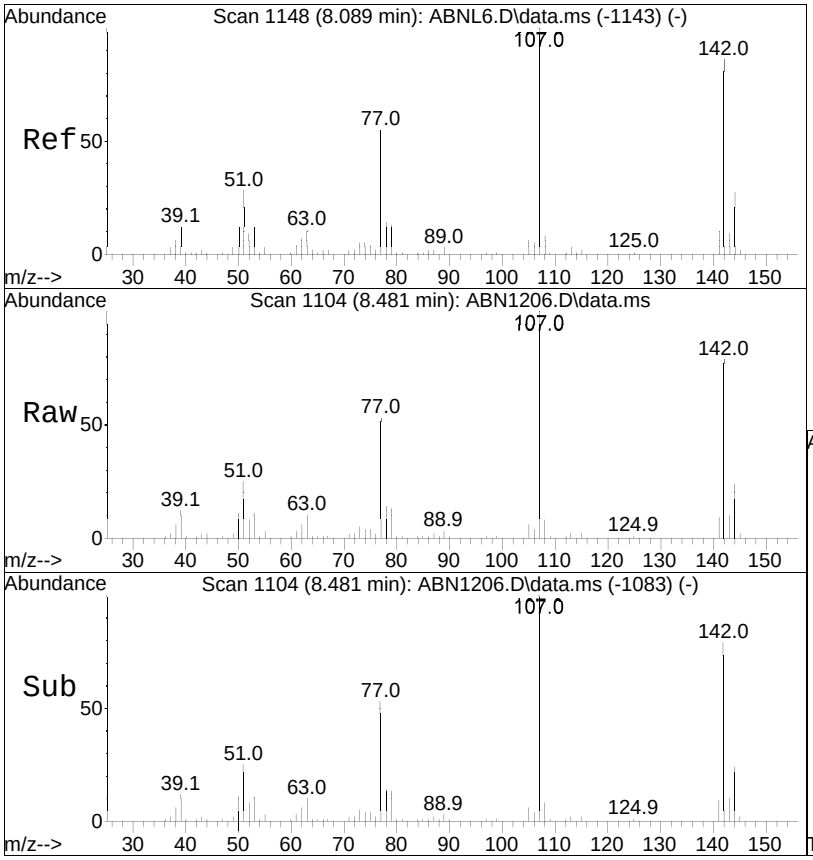


#38
Hexachlorobutadiene
Concen: 4.63 ug/ml
RT: 8.039 min Scan# 1029
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:225 Resp: 23391

Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.3	75.5
227	63.3	52.2	78.2

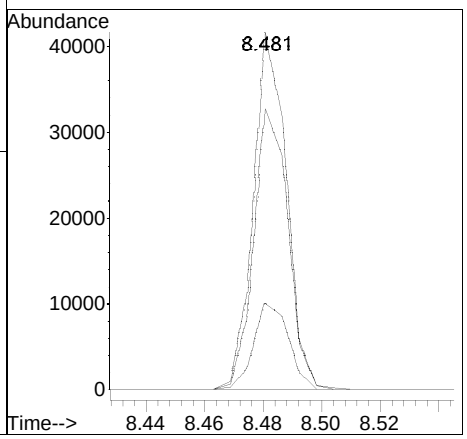


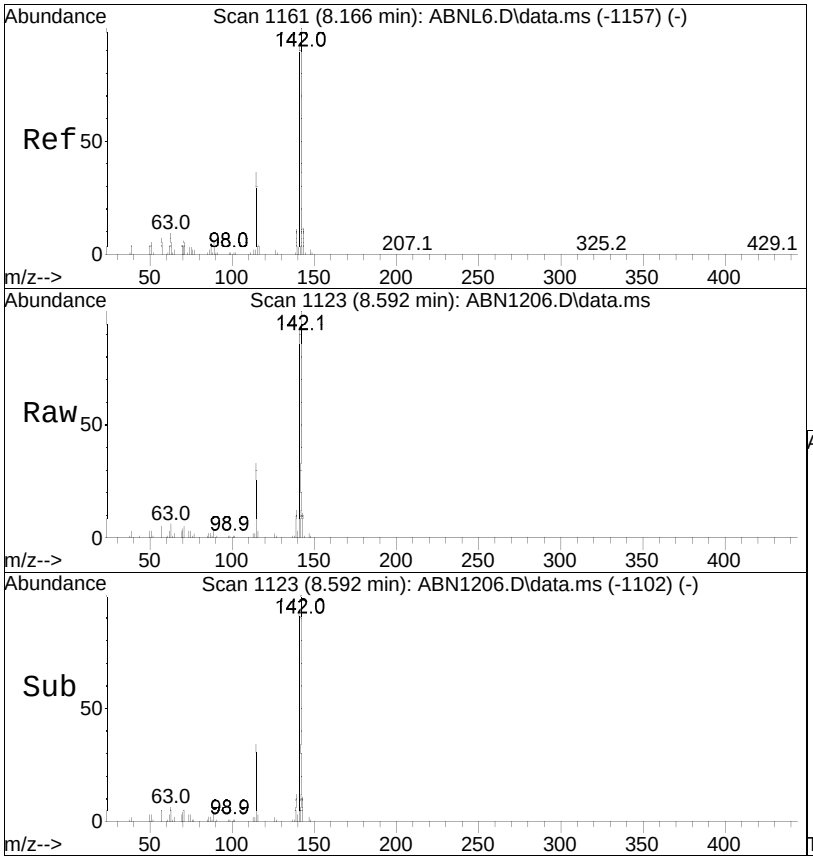


#39
p-Chloro-m-cresol
Concen: 4.58 ug/ml
RT: 8.481 min Scan# 1104
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:107 Resp: 32373

Ion	Ratio	Lower	Upper
107	100		
144	25.8	20.9	31.3
142	81.5	66.1	99.1

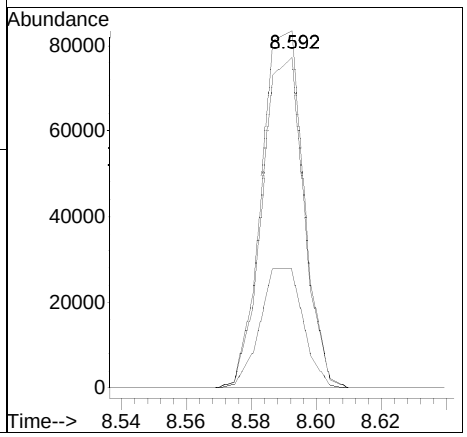


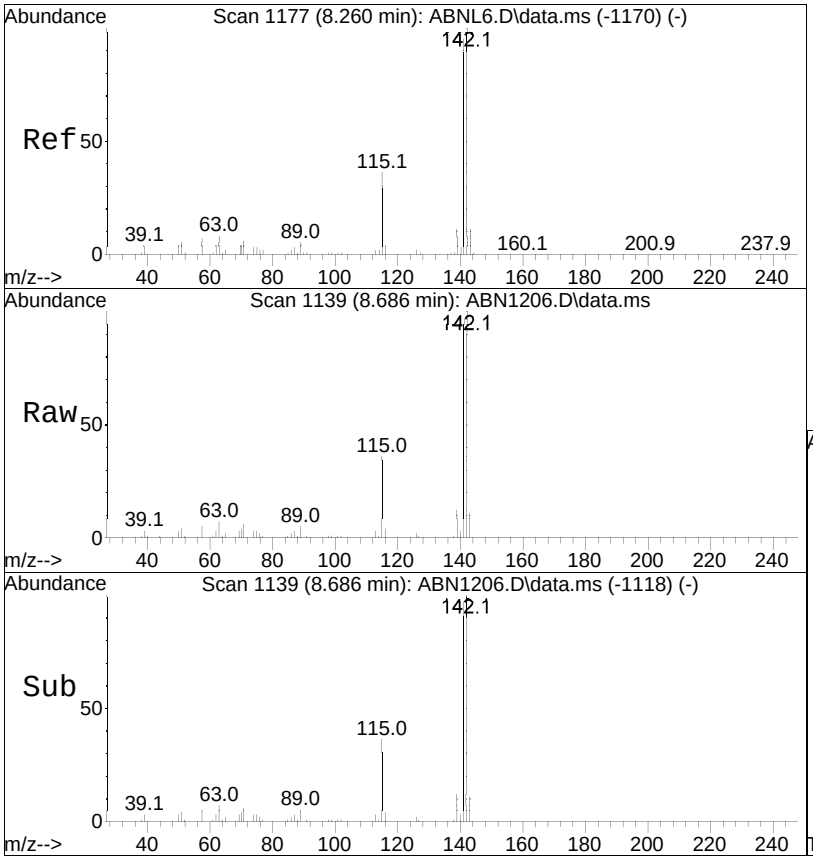


#40
2-Methylnaphthalene
Concen: 4.46 ug/ml
RT: 8.592 min Scan# 1123
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:142 Resp: 75612

Ion	Ratio	Lower	Upper
142	100		
141	91.3	69.6	104.4
115	34.0	26.6	40.0

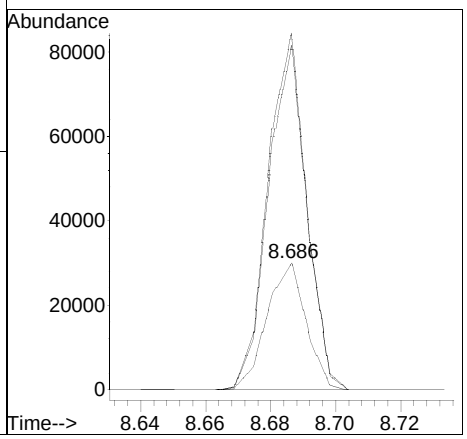


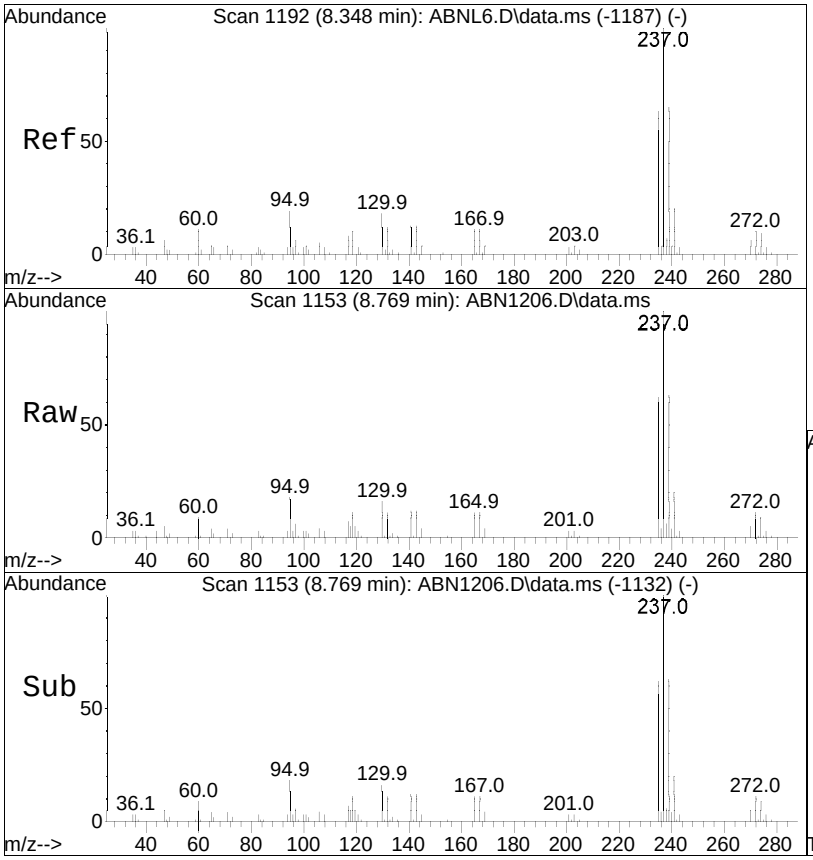


#41
1-Methylnaphthalene
Concen: 4.20 ug/ml
RT: 8.686 min Scan# 1139
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:115 Resp: 25224

Ion	Ratio	Lower	Upper
115	100		
141	263.9	207.8	311.6
142	276.5	226.8	340.2

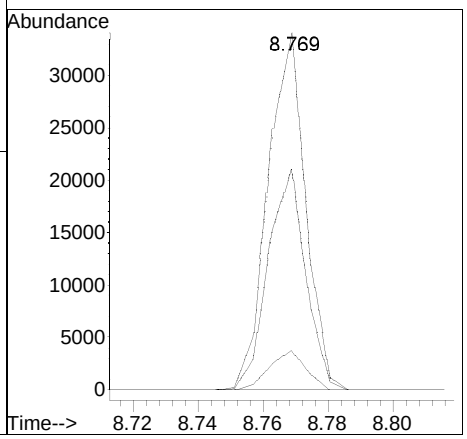


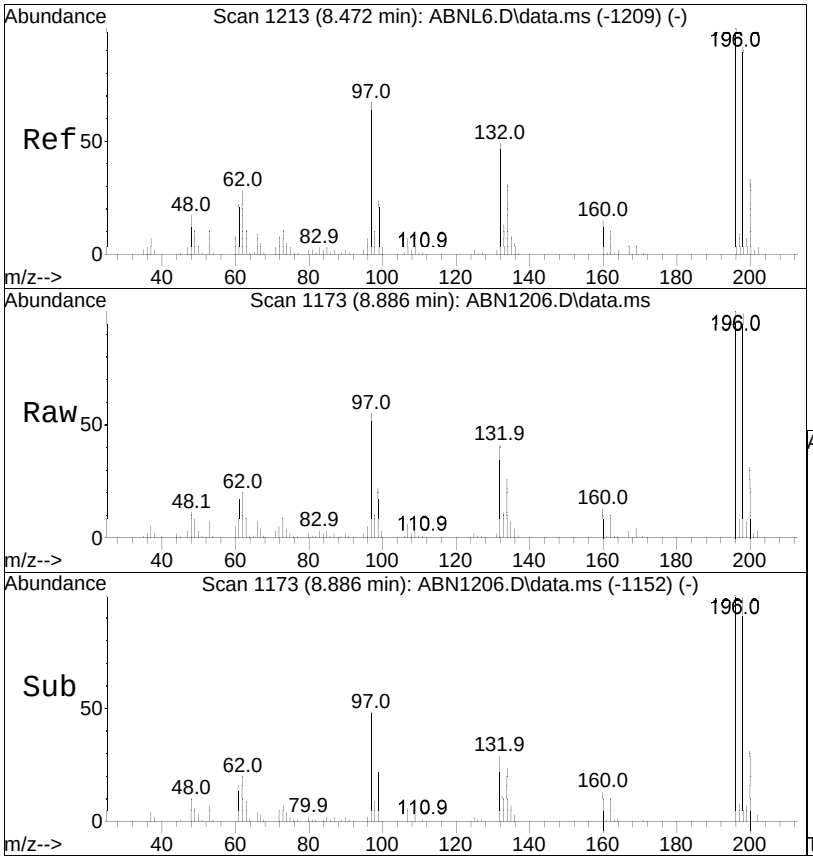


#42
Hexachlorocyclopentadiene
Concen: 4.81 ug/ml
RT: 8.769 min Scan# 1153
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:237 Resp: 27184

Ion	Ratio	Lower	Upper
237	100		
235	61.9	49.7	74.5
272	10.8	9.8	14.6

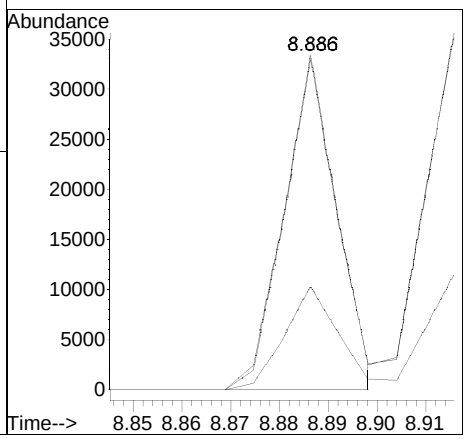


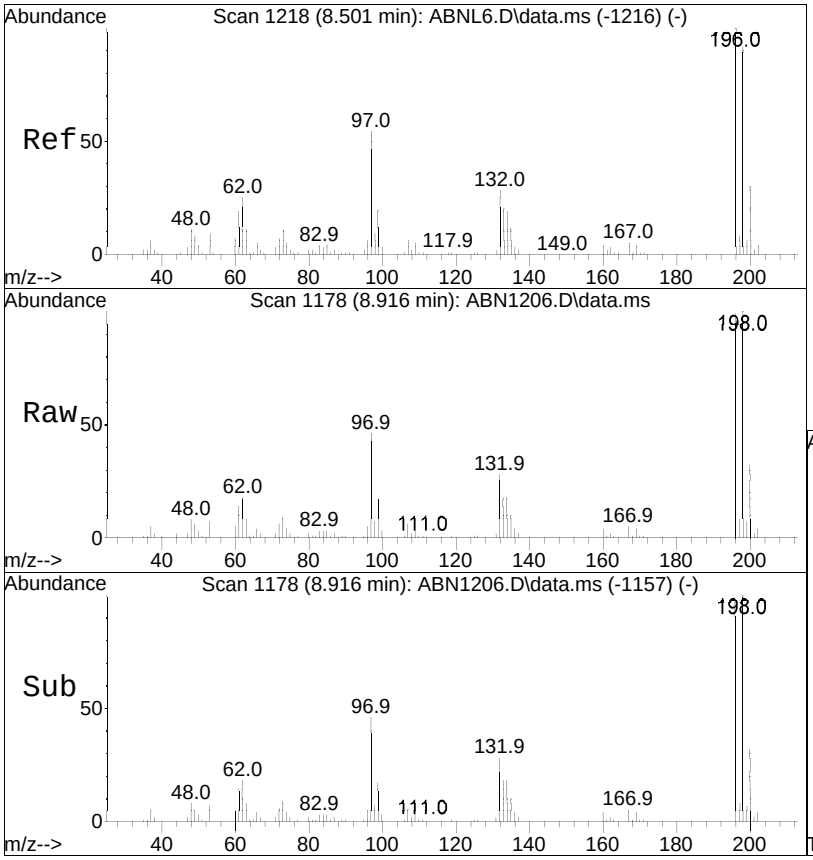


#43
2,4,6-Trichlorophenol
Concen: 4.70 ug/ml
RT: 8.886 min Scan# 1173
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:196 Resp: 25103

Ion	Ratio	Lower	Upper
196	100		
198	98.0	77.5	116.3
200	32.9	23.8	35.6

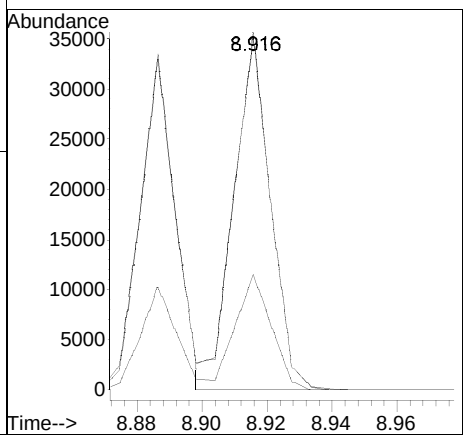


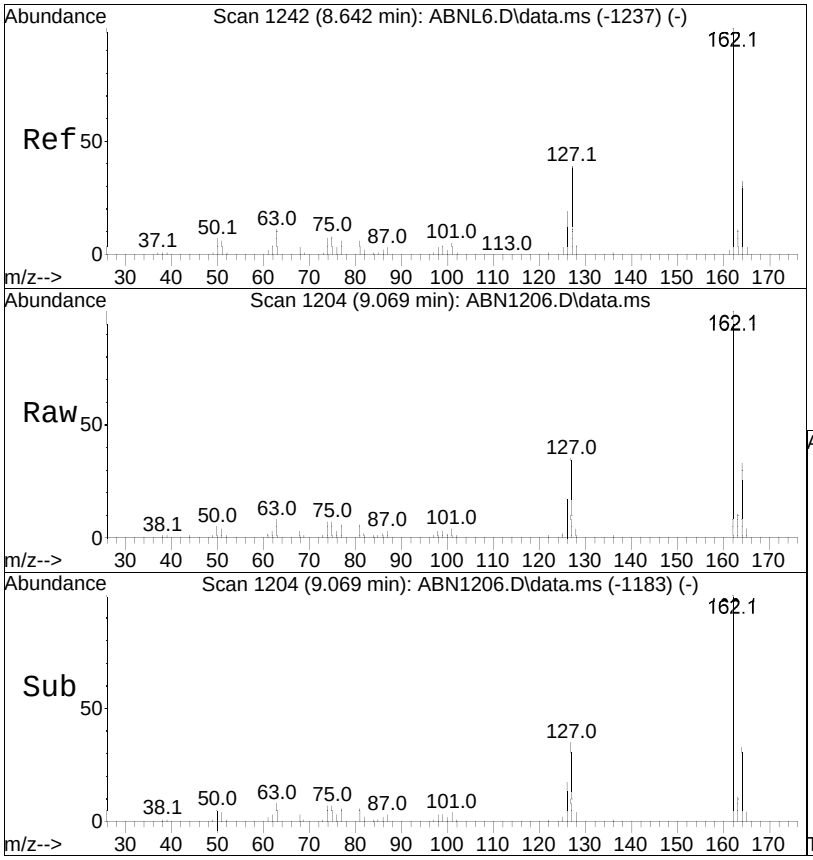


#44
2,4,5-Trichlorophenol
Concen: 4.76 ug/ml
RT: 8.916 min Scan# 1178
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:196 Resp: 27565

Ion	Ratio	Lower	Upper
196	100		
200	31.4	25.4	38.0
198	99.6	78.0	117.0

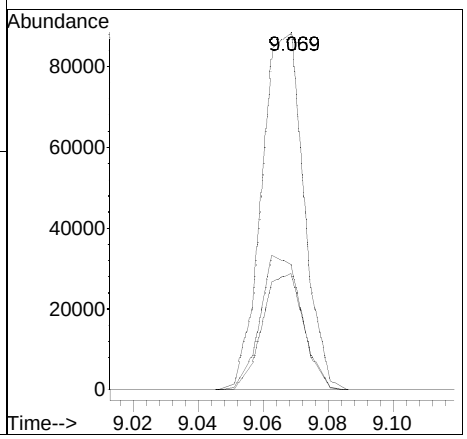


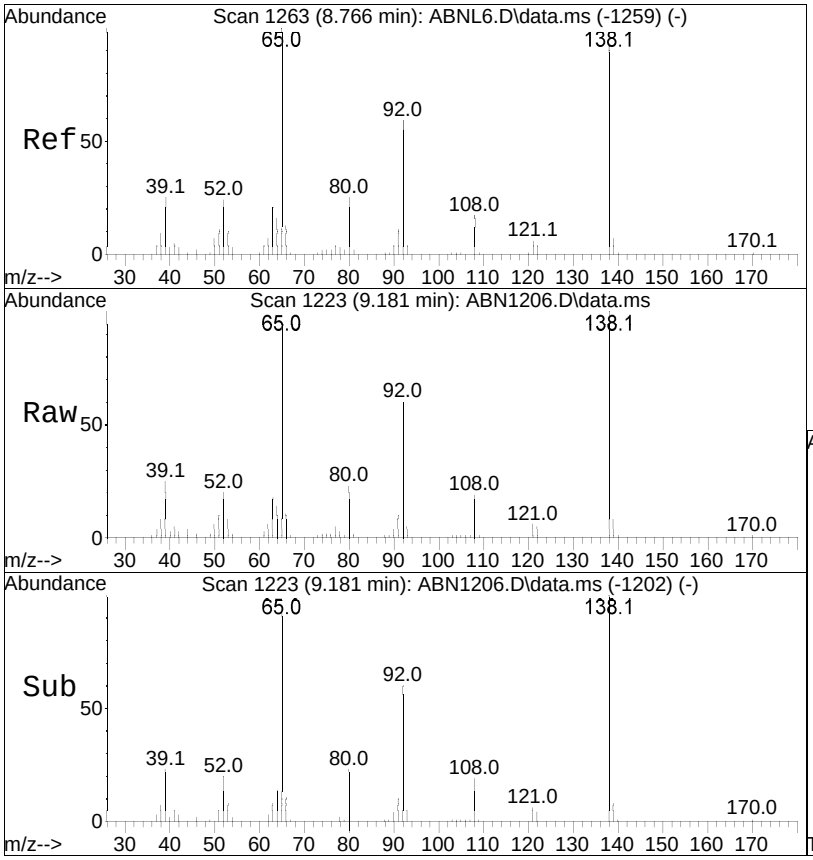


#46
2-Chloronaphthalene
Concen: 4.53 ug/ml
RT: 9.069 min Scan# 1204
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:162 Resp: 78694

Ion	Ratio	Lower	Upper
162	100		
127	37.0	32.2	48.4
164	32.5	25.7	38.5

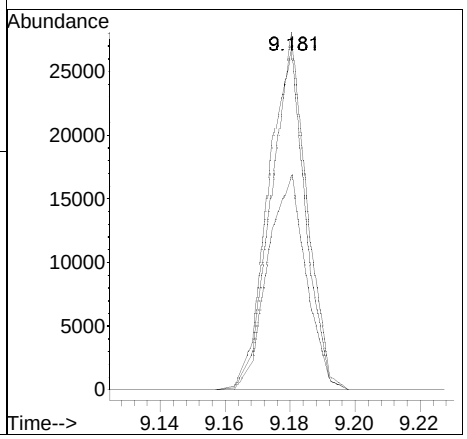


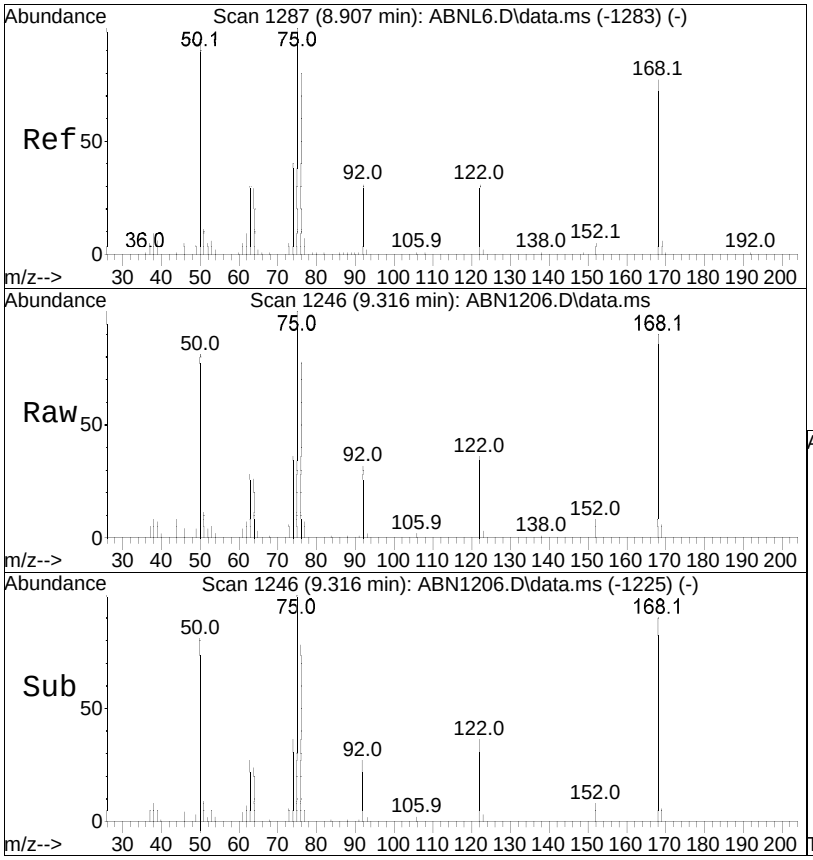


#47
2-Nitroaniline
Concen: 4.12 ug/ml
RT: 9.181 min Scan# 1223
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:138 Resp: 21030

Ion	Ratio	Lower	Upper
138	100		
92	65.6	53.5	80.3
65	100.4	86.3	129.5

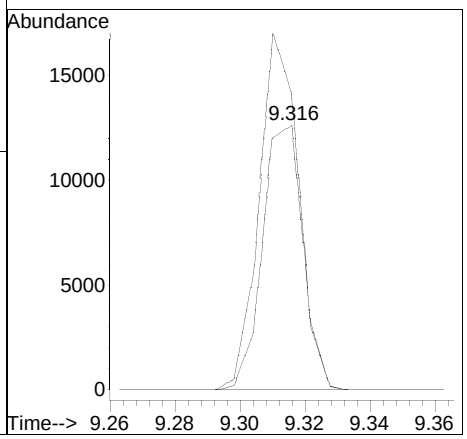


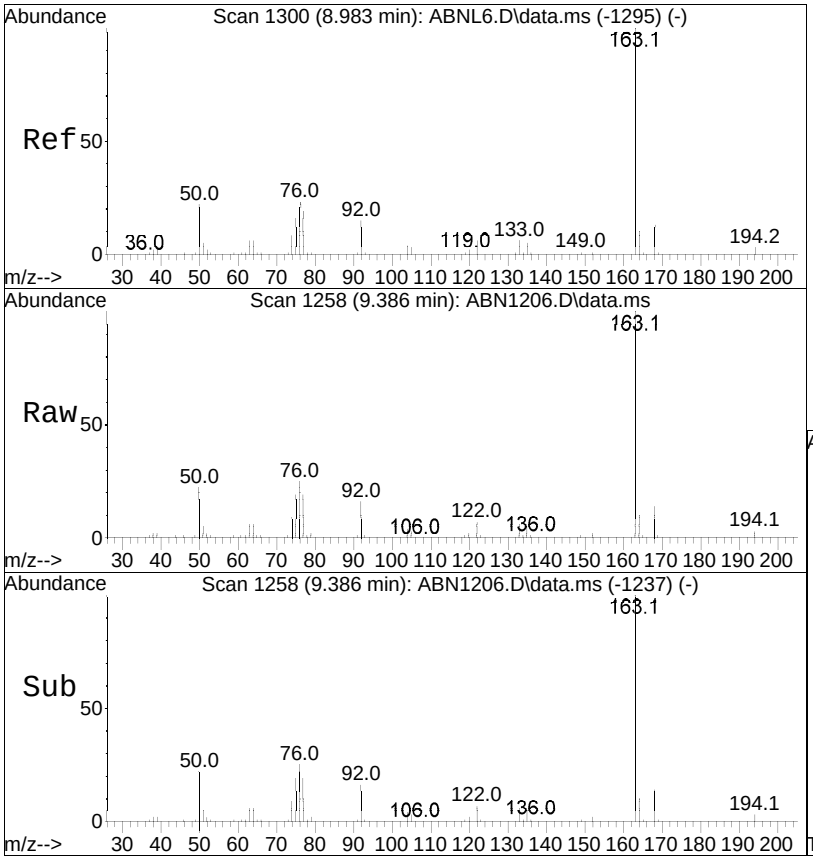


#48
1,4-Dinitrobenzene
Concen: 4.35 ug/ml
RT: 9.316 min Scan# 1246
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:168 Resp: 10935

Ion	Ratio	Lower	Upper
168	100		
75	130.5	121.8	182.8

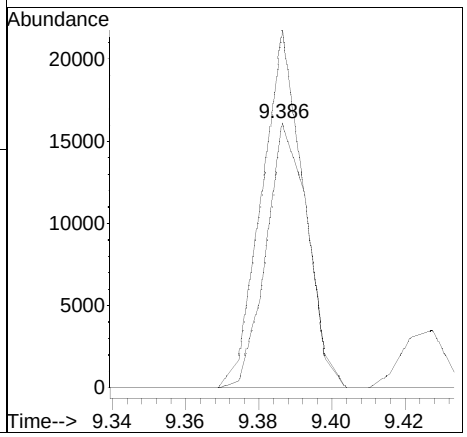


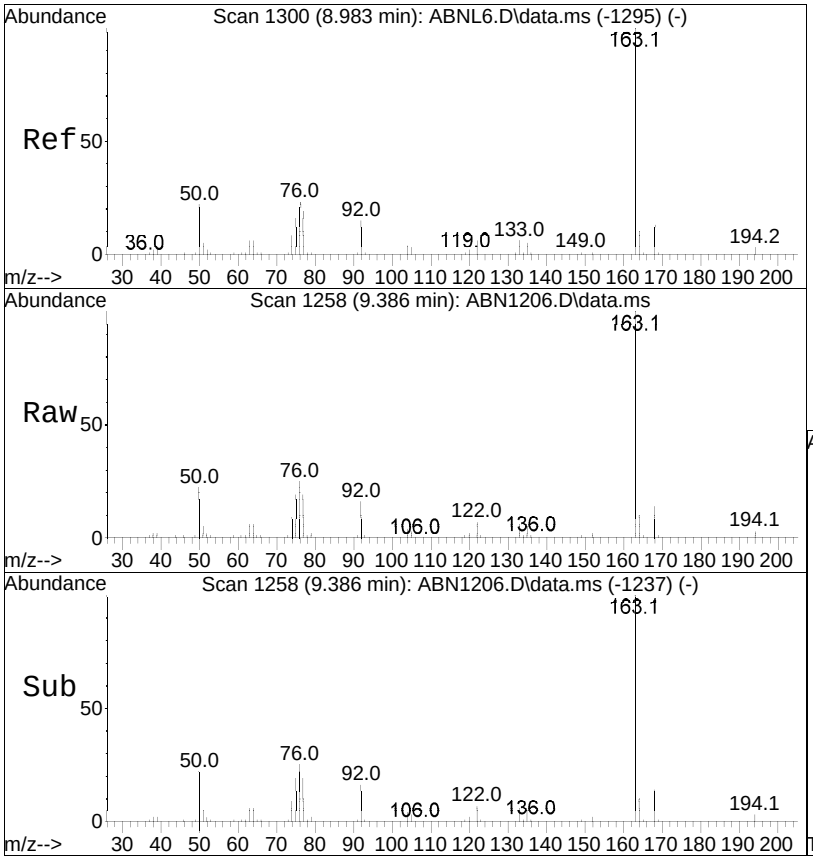


#49
1,3-Dinitrobenzene
Concen: 4.42 ug/ml
RT: 9.386 min Scan# 1258
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:168 Resp: 12699

Ion	Ratio	Lower	Upper
168	100		
75	133.7	22.7	34.1#

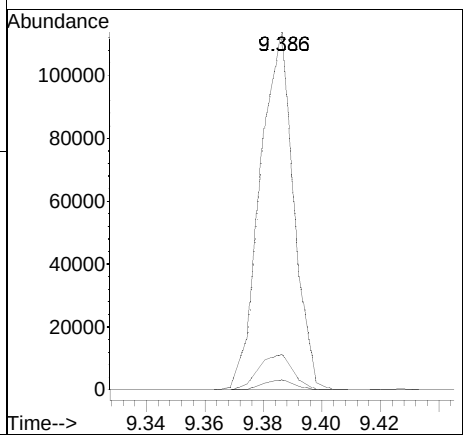


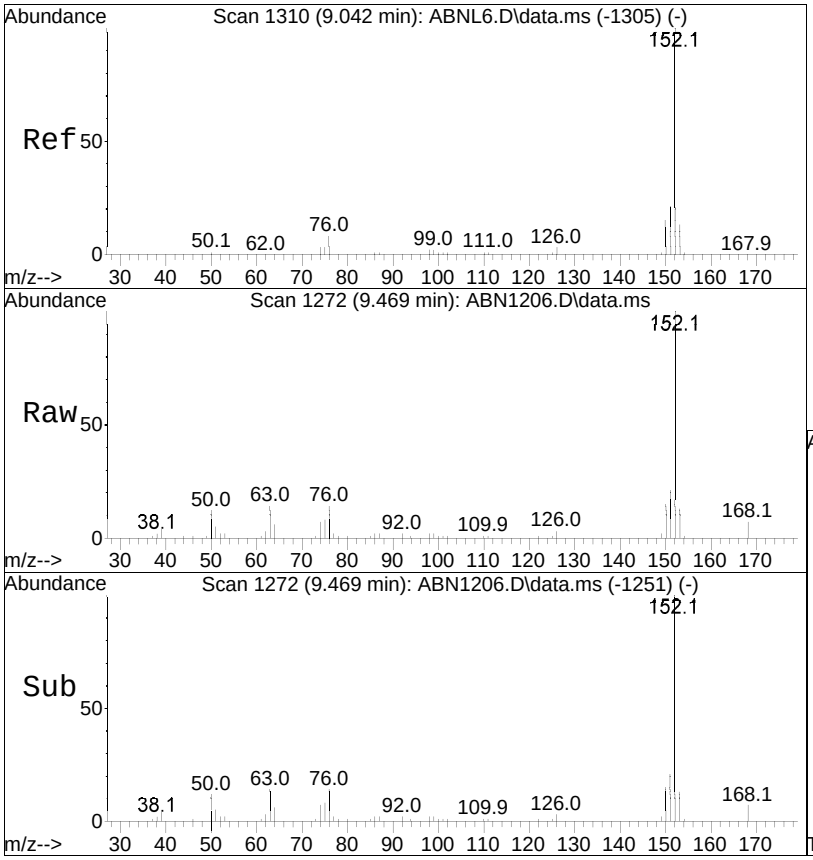


#50
Dimethyl phthalate
Concen: 4.34 ug/ml
RT: 9.386 min Scan# 1258
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:163 Resp: 89735

Ion	Ratio	Lower	Upper
163	100		
194	2.9	3.5	5.3#
164	10.3	7.9	11.9

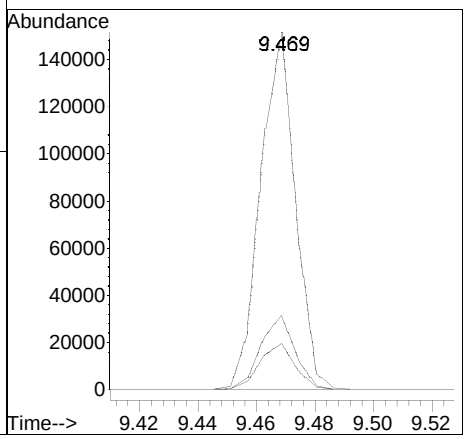


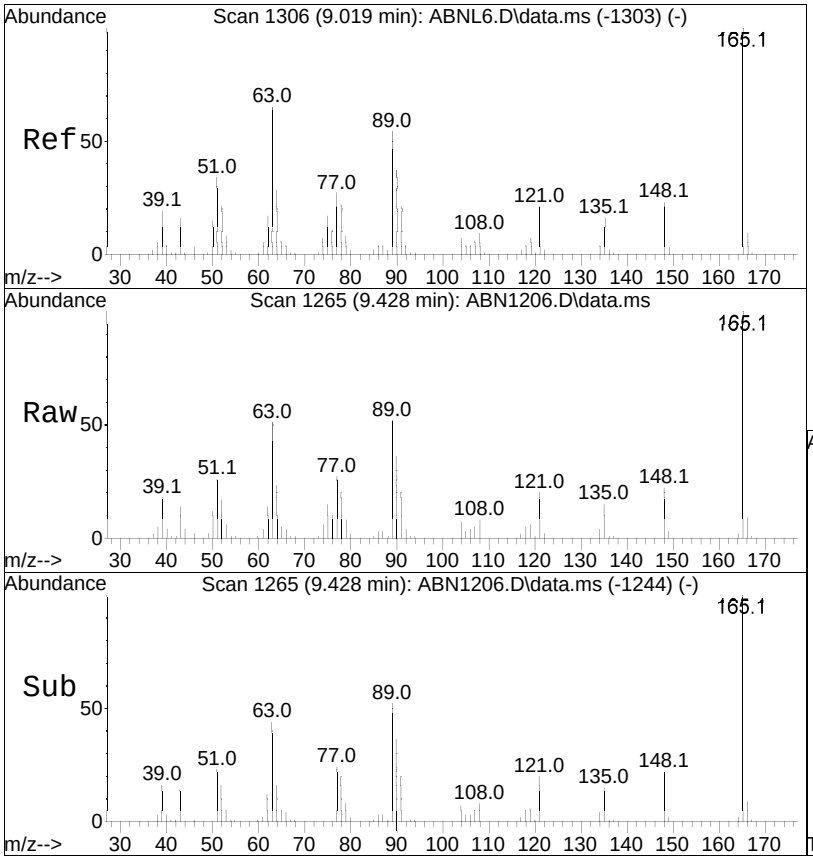


#51
Acenaphthylene
Concen: 4.42 ug/ml
RT: 9.469 min Scan# 1272
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:152 Resp: 124157

Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.8	23.6
153	13.2	10.5	15.7

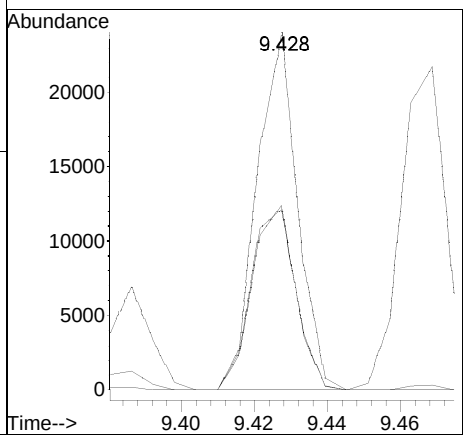


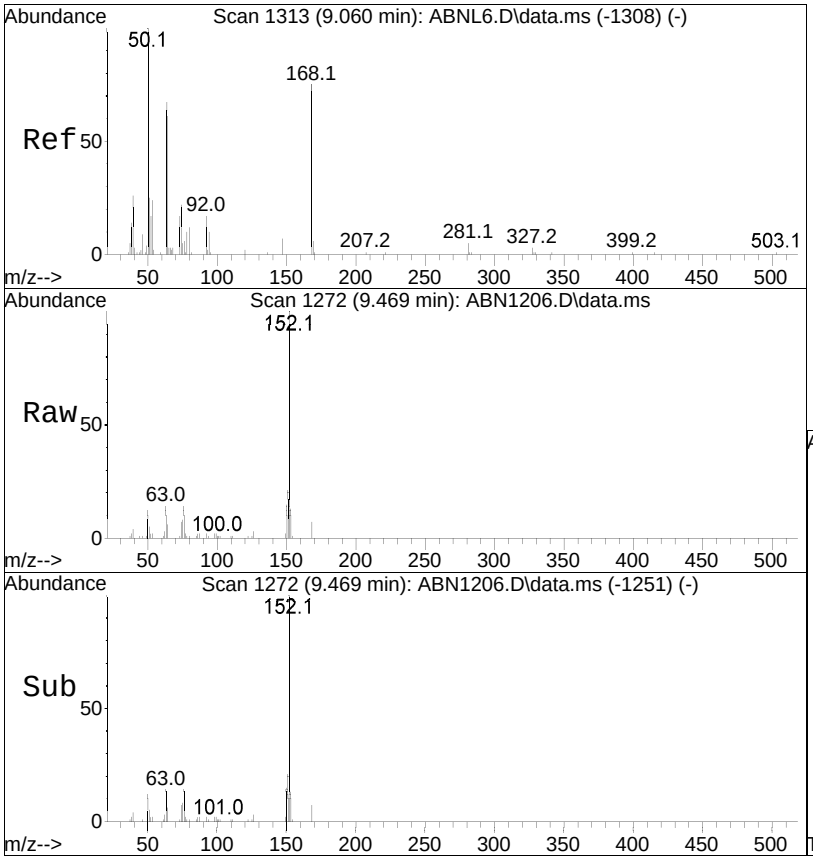


#52
2,6-Dinitrotoluene
Concen: 4.36 ug/ml
RT: 9.428 min Scan# 1265
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:165 Resp: 18474

Ion	Ratio	Lower	Upper
165	100		
89	55.4	54.2	81.2
63	56.3	64.2	96.2#

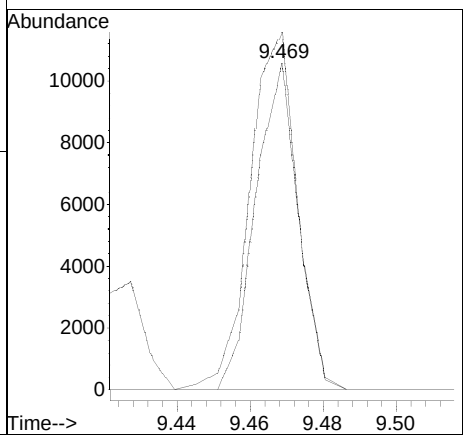


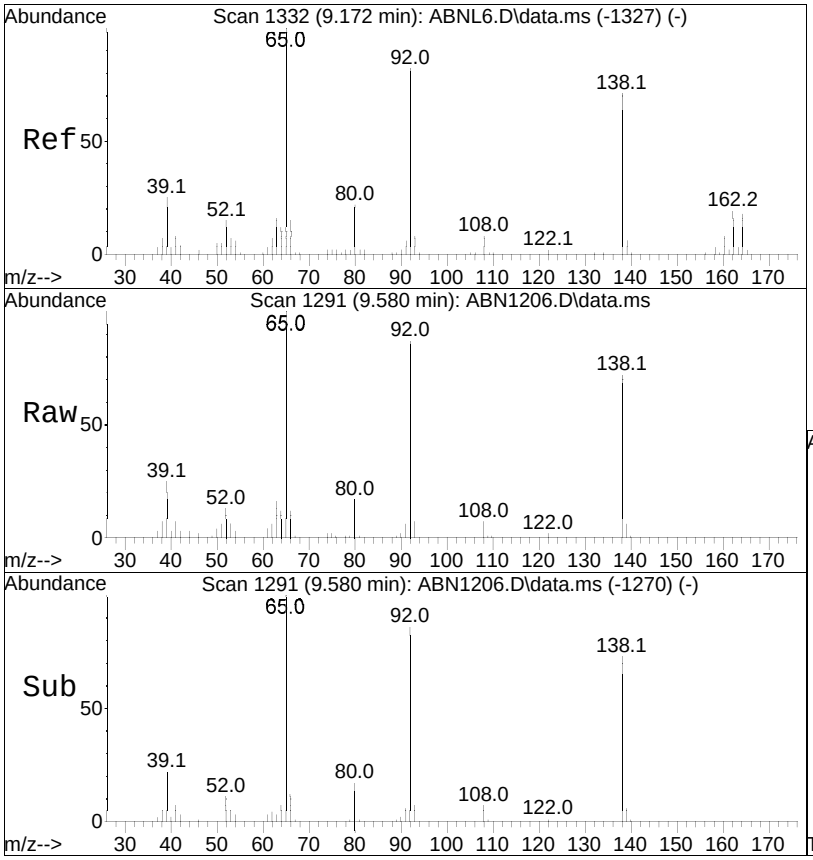


#53
1,2-Dinitrobenzene
Concen: 4.59 ug/ml
RT: 9.469 min Scan# 1272
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:168 Resp: 8527

Ion	Ratio	Lower	Upper
168	100		
75	121.0	30.9	46.3#

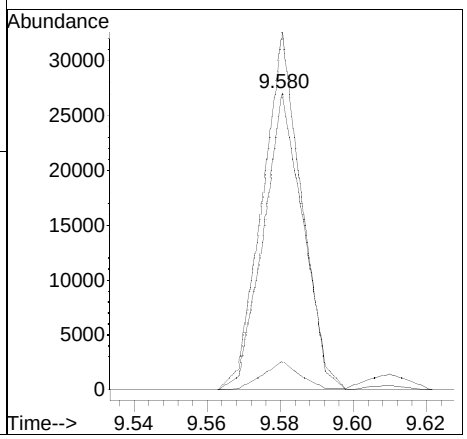


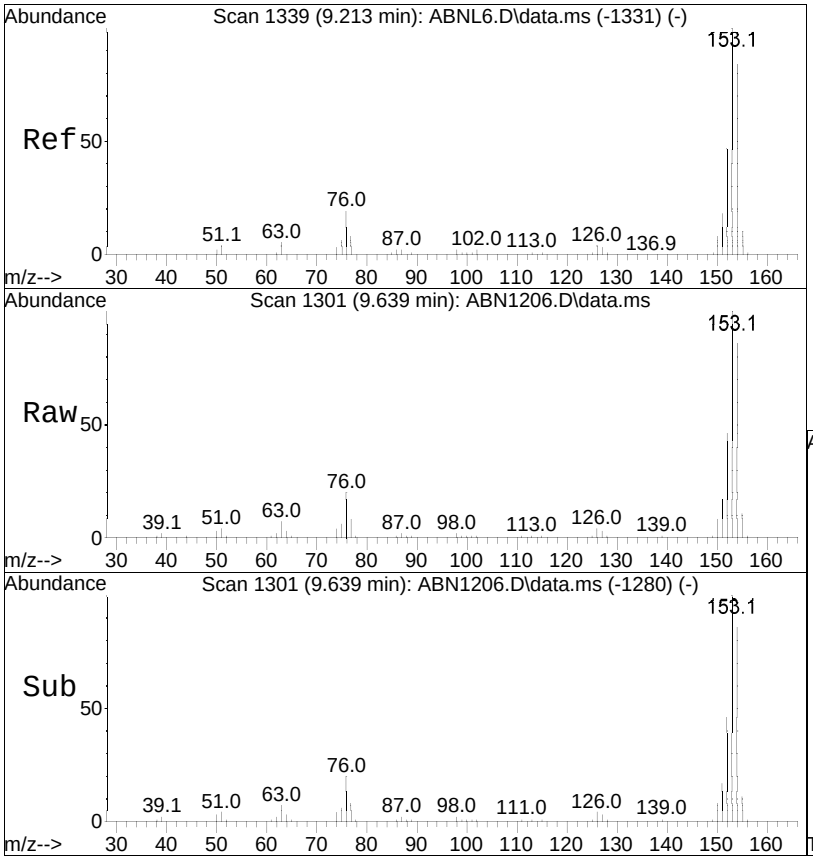


#63
3-Nitroaniline
Concen: 4.45 ug/ml
RT: 9.580 min Scan# 1291
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:138 Resp: 20328

Ion	Ratio	Lower	Upper
138	100		
92	117.9	93.4	140.2
108	9.2	9.5	14.3#

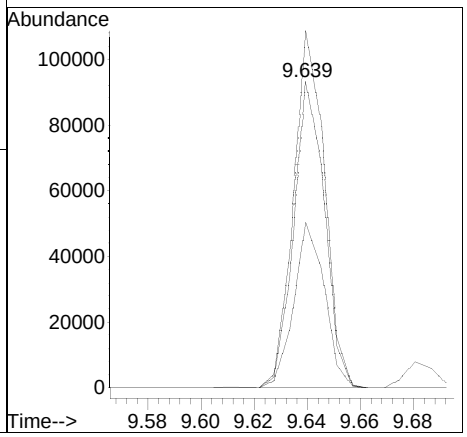


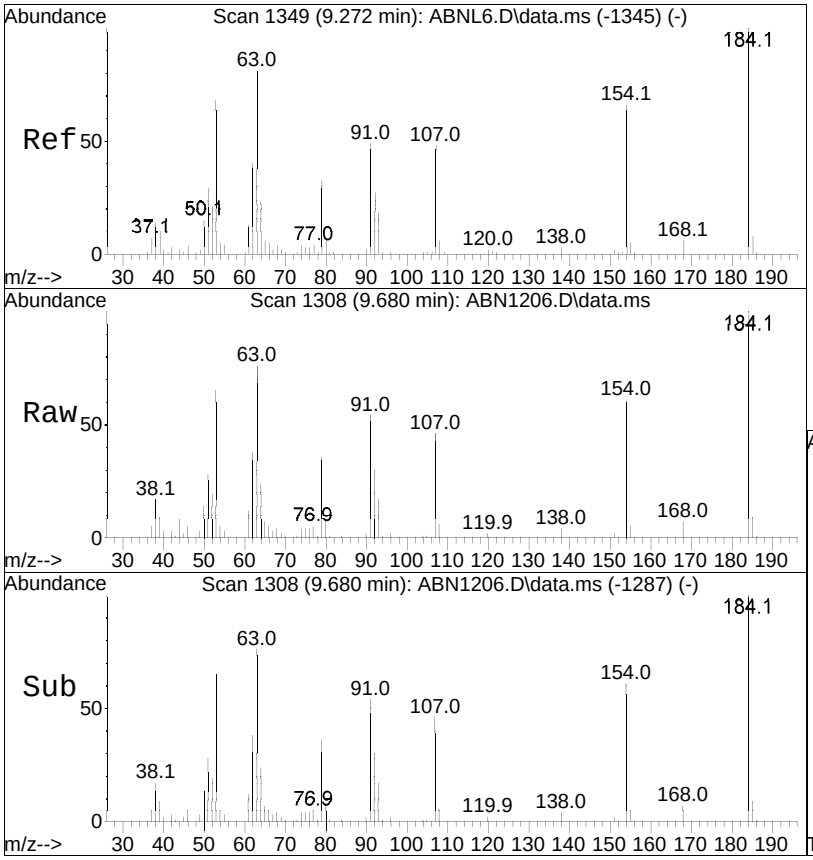


#64
Acenaphthene
Concen: 4.50 ug/ml
RT: 9.639 min Scan# 1301
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:154 Resp: 74996

Ion	Ratio	Lower	Upper
154	100		
153	117.2	85.3	127.9
152	53.9	41.4	62.0

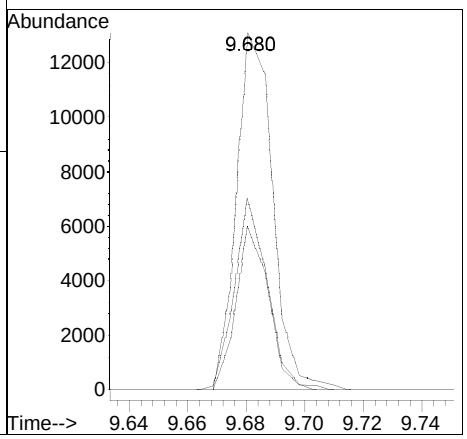


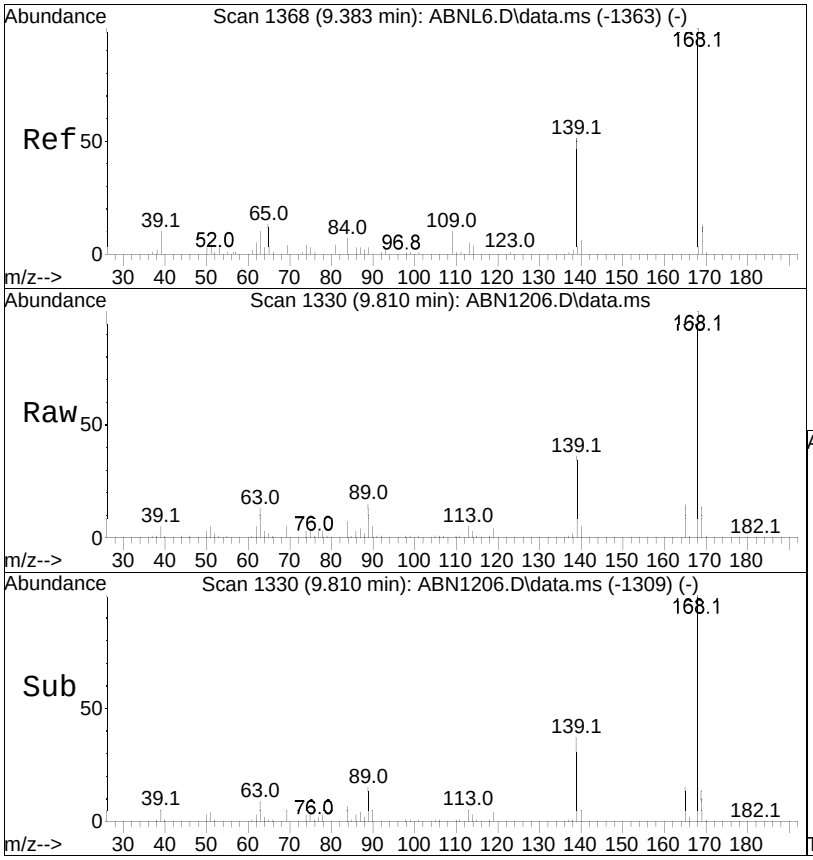


#65
2,4-Dinitrophenol
Concen: 4.89 ug/ml
RT: 9.680 min Scan# 1308
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:184 Resp: 11299

Ion	Ratio	Lower	Upper
184	100		
107	41.5	37.7	56.5
91	48.5	46.3	69.5

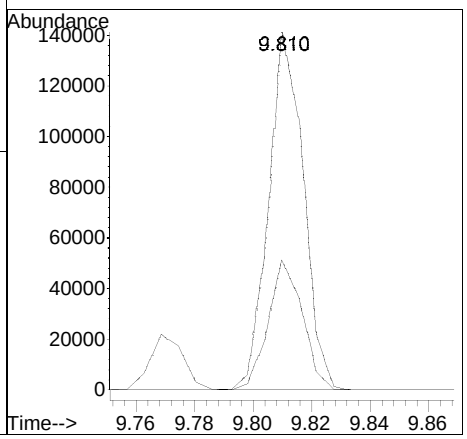


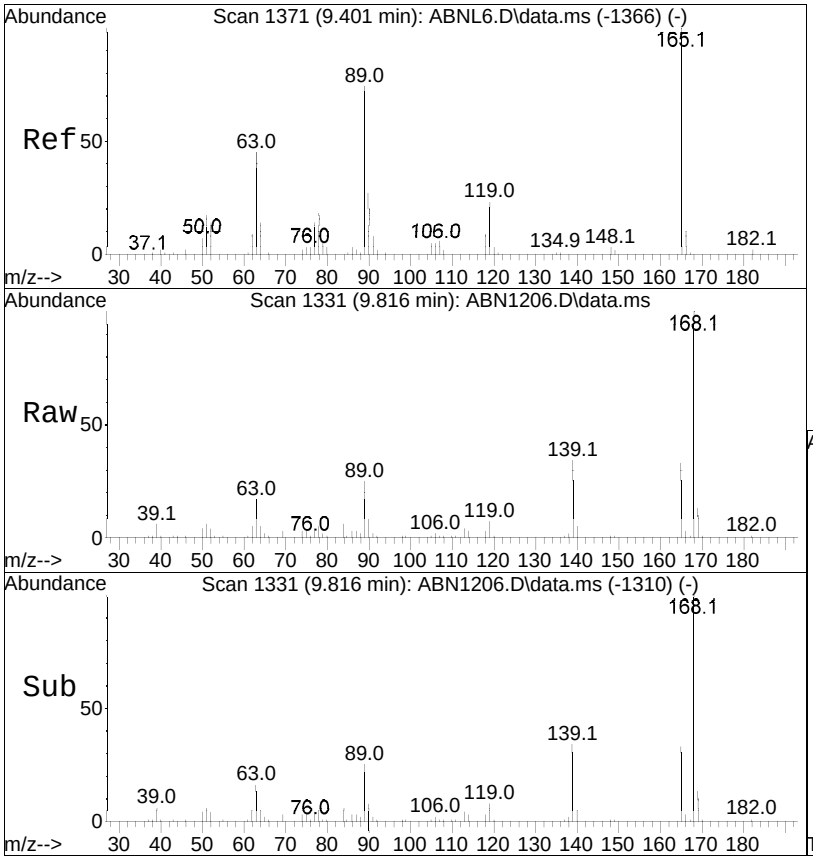


#66
Dibenzofuran
Concen: 4.61 ug/ml
RT: 9.810 min Scan# 1330
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:168 Resp: 115271

Ion	Ratio	Lower	Upper
168	100		
139	35.9	31.4	47.2

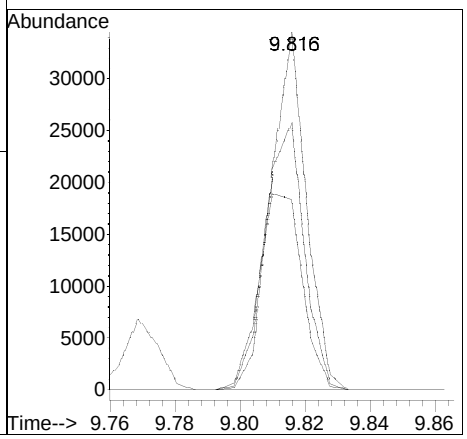


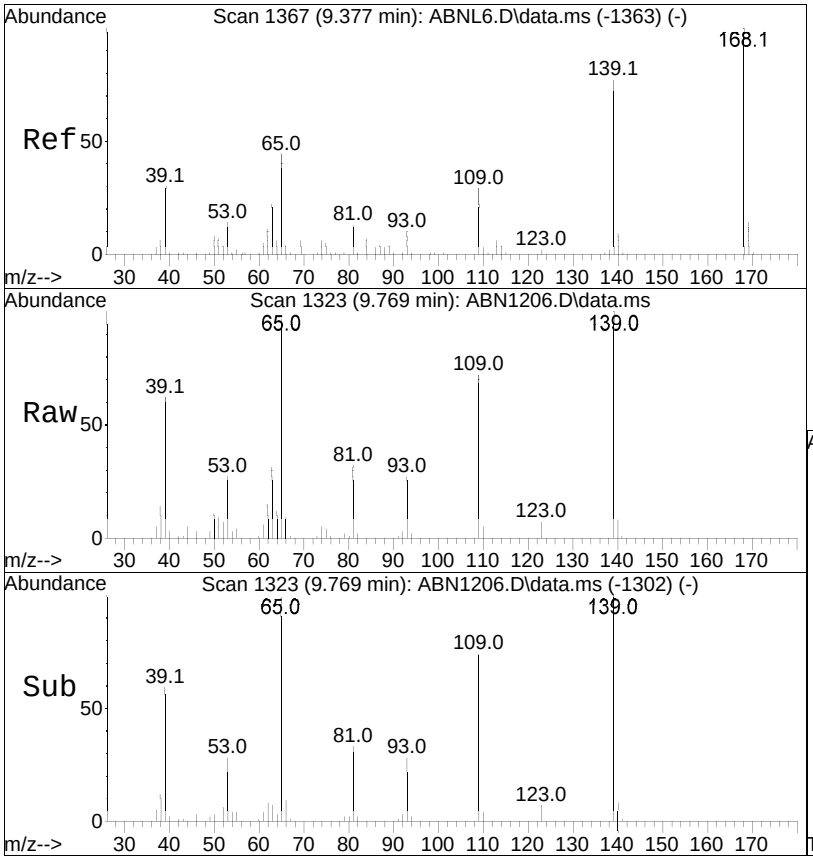


#67
2,4-Dinitrotoluene
Concen: 4.40 ug/ml
RT: 9.816 min Scan# 1331
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:165 Resp: 25997

Ion	Ratio	Lower	Upper
165	100		
89	82.9	72.0	108.0
63	67.4	52.7	79.1

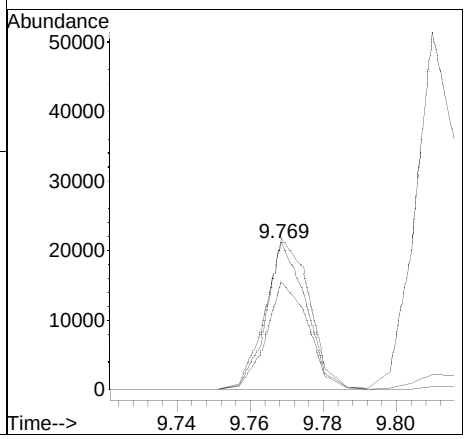


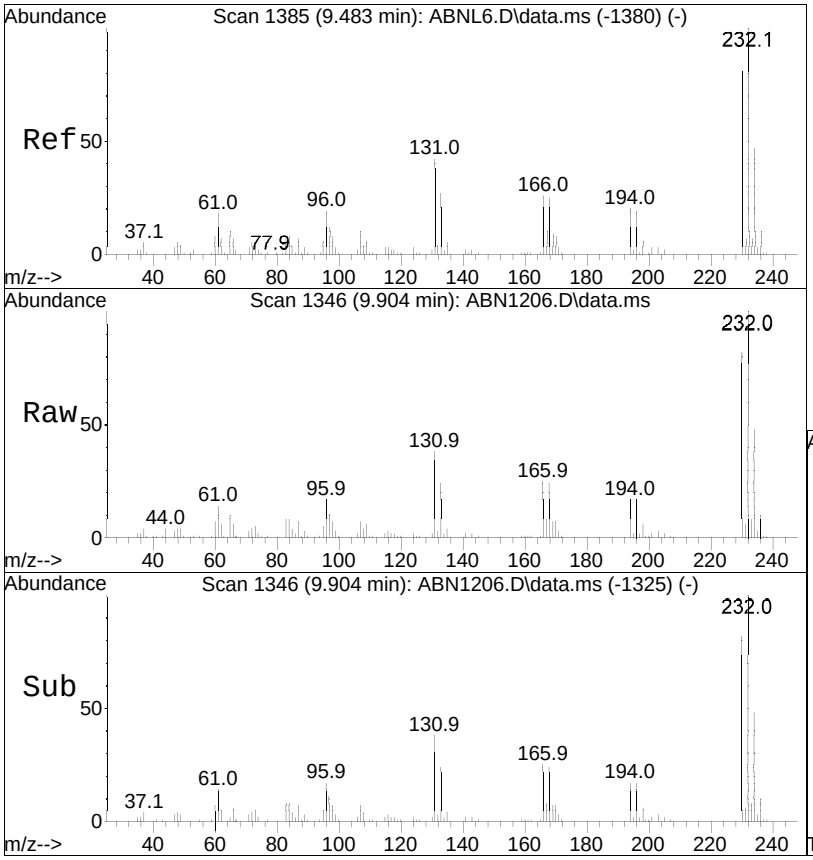


#68
4-Nitrophenol
Concen: 3.59 ug/ml
RT: 9.769 min Scan# 1323
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 65 Resp: 16542

Ion	Ratio	Lower	Upper
65	100		
109	74.3	47.4	71.2#
139	106.2	76.6	115.0

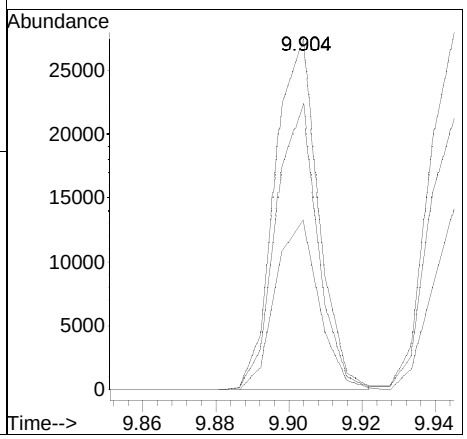


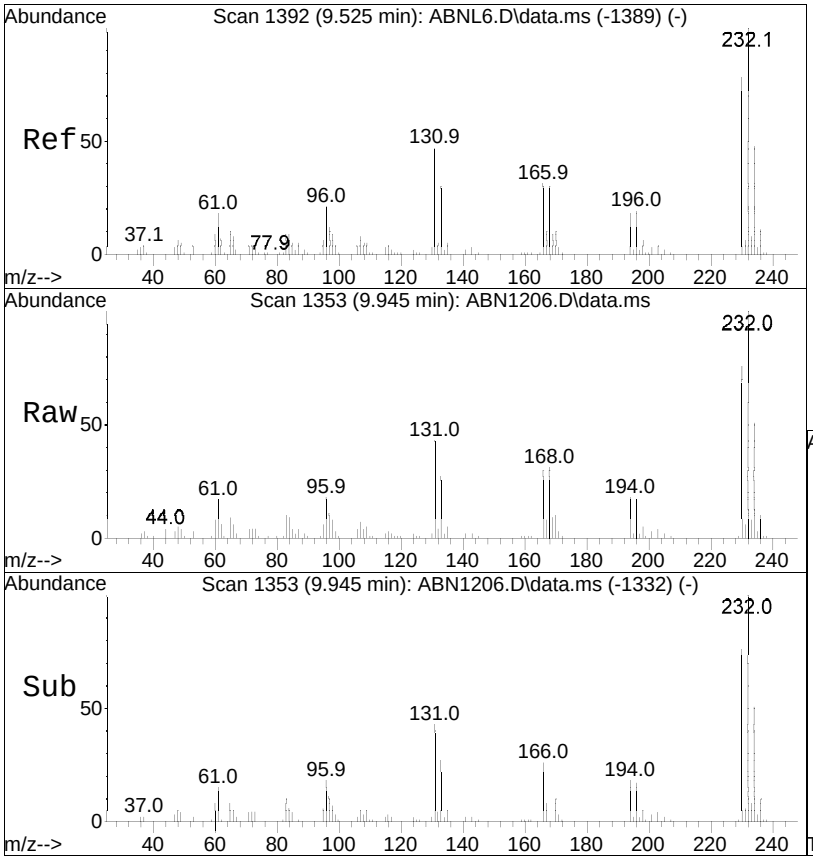


#69
2,3,5,6-Tetrachlorophenol
Concen: 4.99 ug/ml
RT: 9.904 min Scan# 1346
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:232 Resp: 22868

Ion	Ratio	Lower	Upper
232	100		
230	78.4	64.2	96.4
234	48.1	38.1	57.1

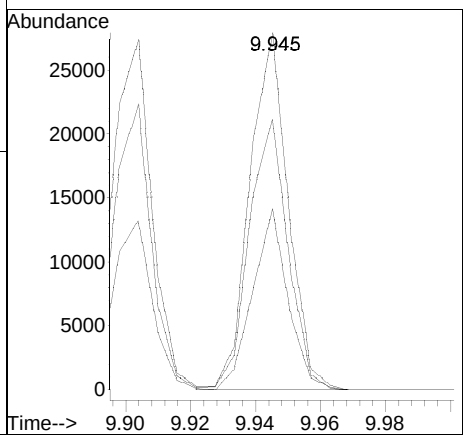


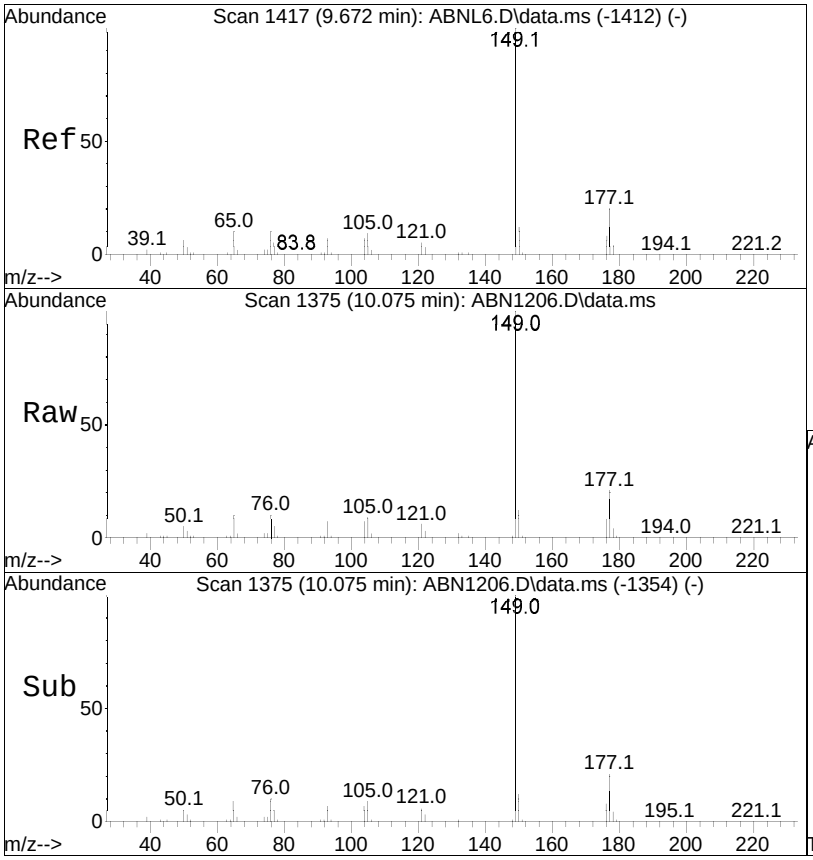


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.58 ug/ml
RT: 9.945 min Scan# 1353
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:232 Resp: 22905

Ion	Ratio	Lower	Upper
232	100		
230	76.5	61.8	92.8
234	46.8	36.2	54.2

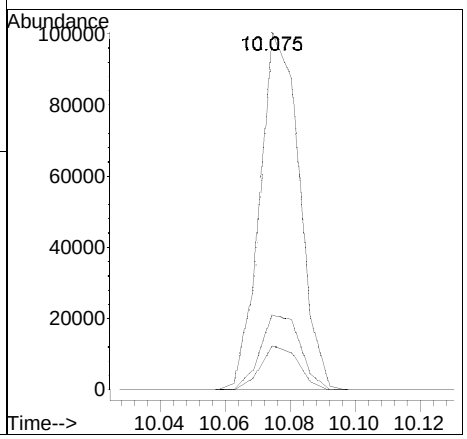


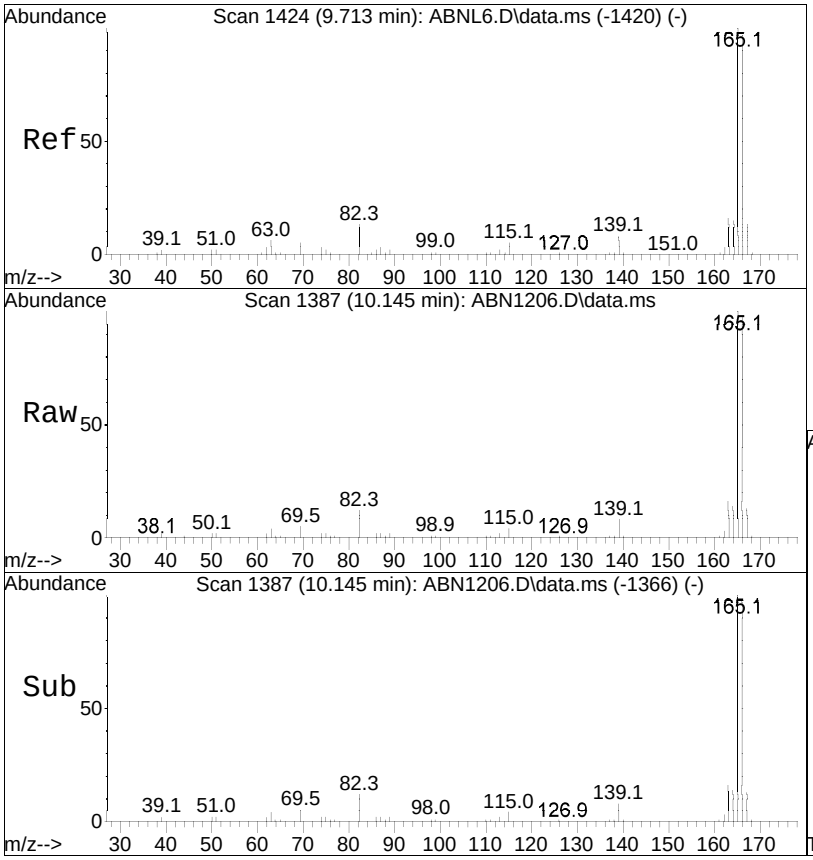


#71
Diethyl phthalate
Concen: 4.20 ug/ml
RT: 10.075 min Scan# 1375
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:149 Resp: 84028

Ion	Ratio	Lower	Upper
149	100		
177	21.5	16.1	24.1
150	12.1	9.4	14.2

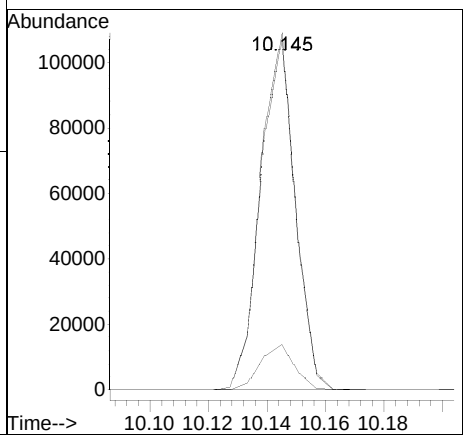


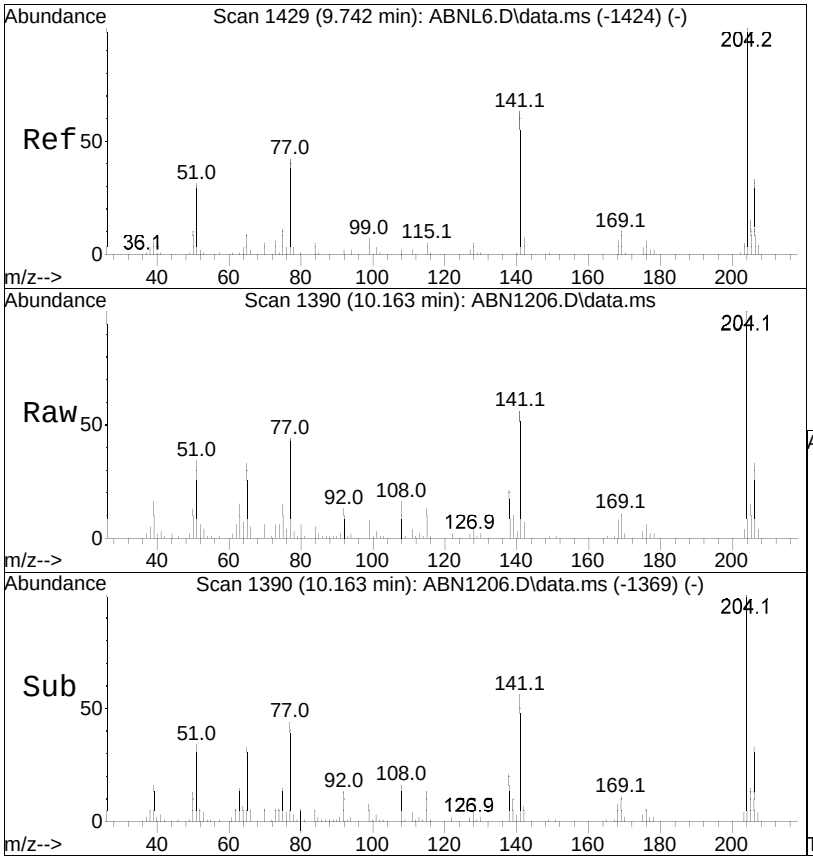


#72
Fluorene
Concen: 4.50 ug/ml
RT: 10.145 min Scan# 1387
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:166 Resp: 87400

Ion	Ratio	Lower	Upper
166	100		
165	102.8	76.2	114.2
167	13.2	10.6	15.8

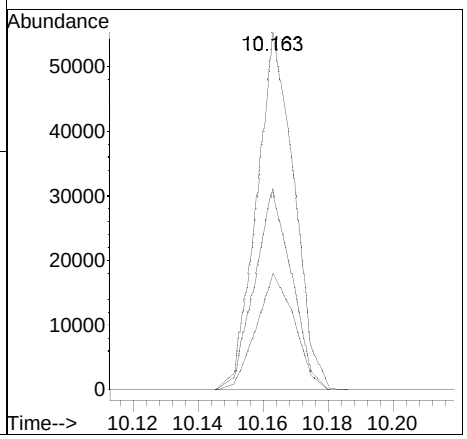


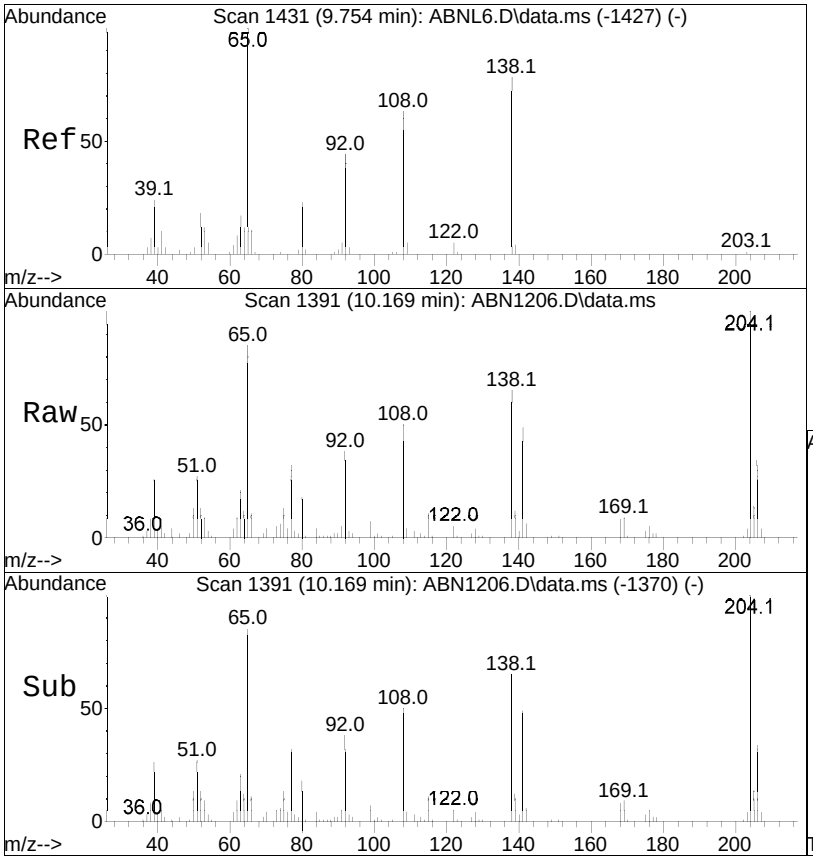


#73
4-Chlorophenyl phenyl ether
Concen: 4.42 ug/ml
RT: 10.163 min Scan# 1390
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:204 Resp: 43844

Ion	Ratio	Lower	Upper
204	100		
206	33.3	25.8	38.6
141	55.8	53.6	80.4

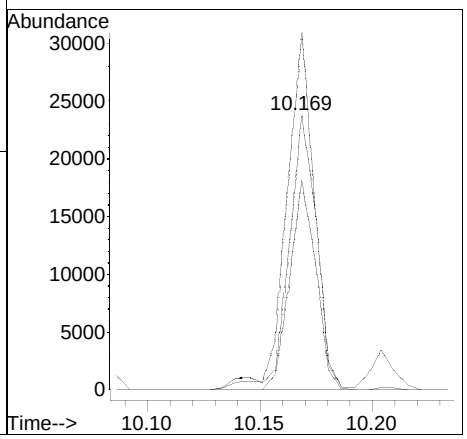


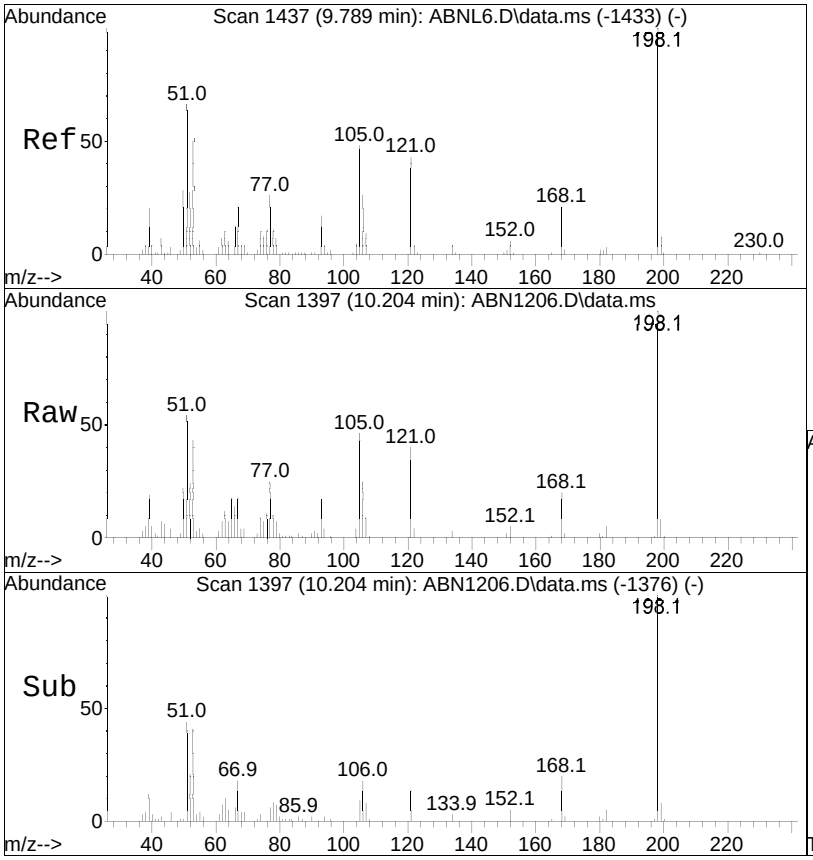


#74
4-Nitroaniline
Concen: 4.50 ug/ml
RT: 10.169 min Scan# 1391
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:138 Resp: 20467

Ion	Ratio	Lower	Upper
138	100		
108	71.0	52.1	78.1
65	127.1	115.0	172.6

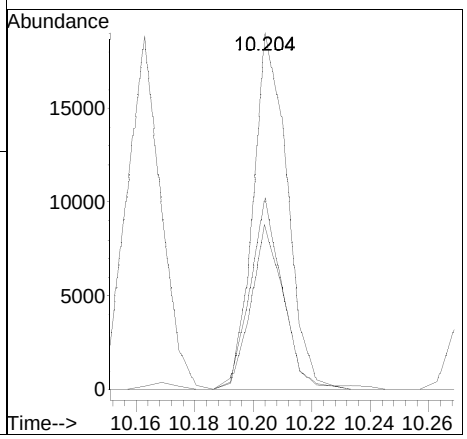


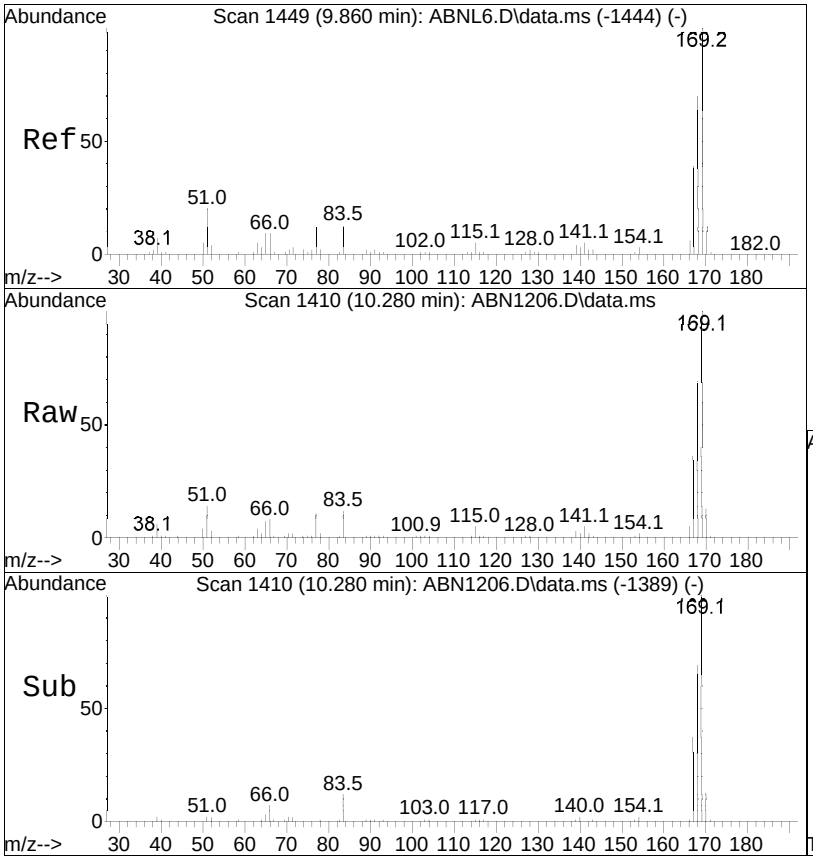


#75
4,6-Dinitro-o-cresol
Concen: 4.97 ug/ml
RT: 10.204 min Scan# 1397
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:198 Resp: 15418

Ion	Ratio	Lower	Upper
198	100		
51	51.9	76.0	114.0#
105	45.0	45.6	68.4#

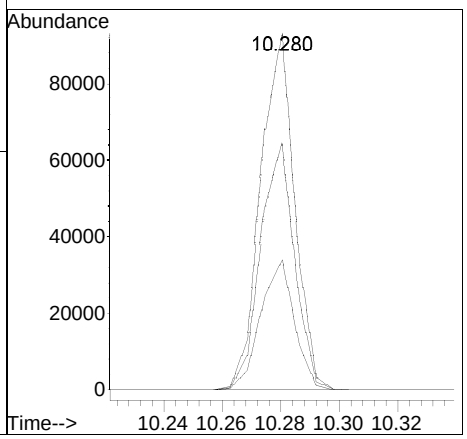


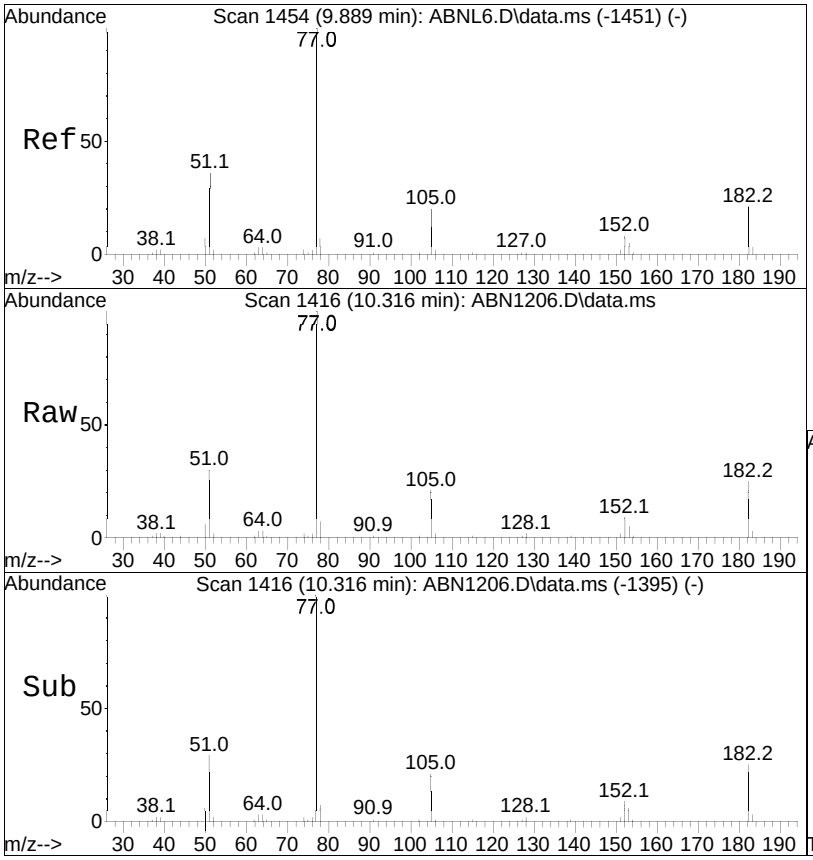


#76
NDPA/DPA
Concen: 4.58 ug/ml
RT: 10.280 min Scan# 1410
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:169 Resp: 74632

Ion	Ratio	Lower	Upper
169	100		
168	69.4	54.0	81.0
167	36.4	28.6	42.8

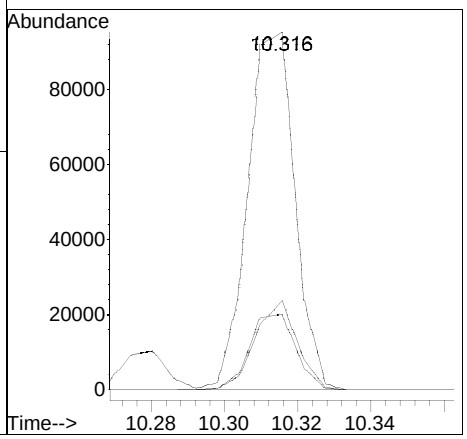


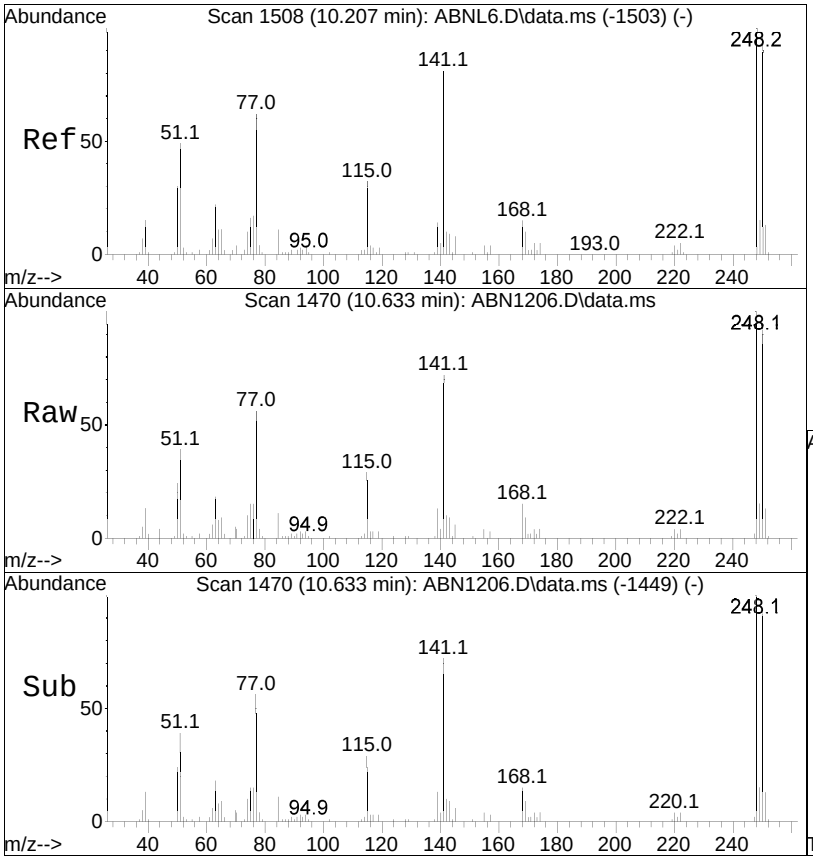


#77
Azobenzene
Concen: 4.27 ug/ml
RT: 10.316 min Scan# 1416
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion: 77 Resp: 84462

Ion	Ratio	Lower	Upper
77	100		
182	22.5	17.4	26.2
105	21.1	15.4	23.2

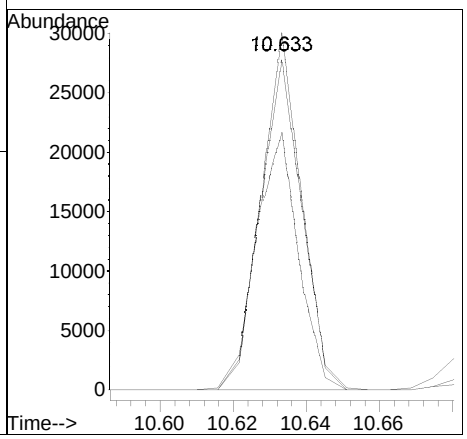


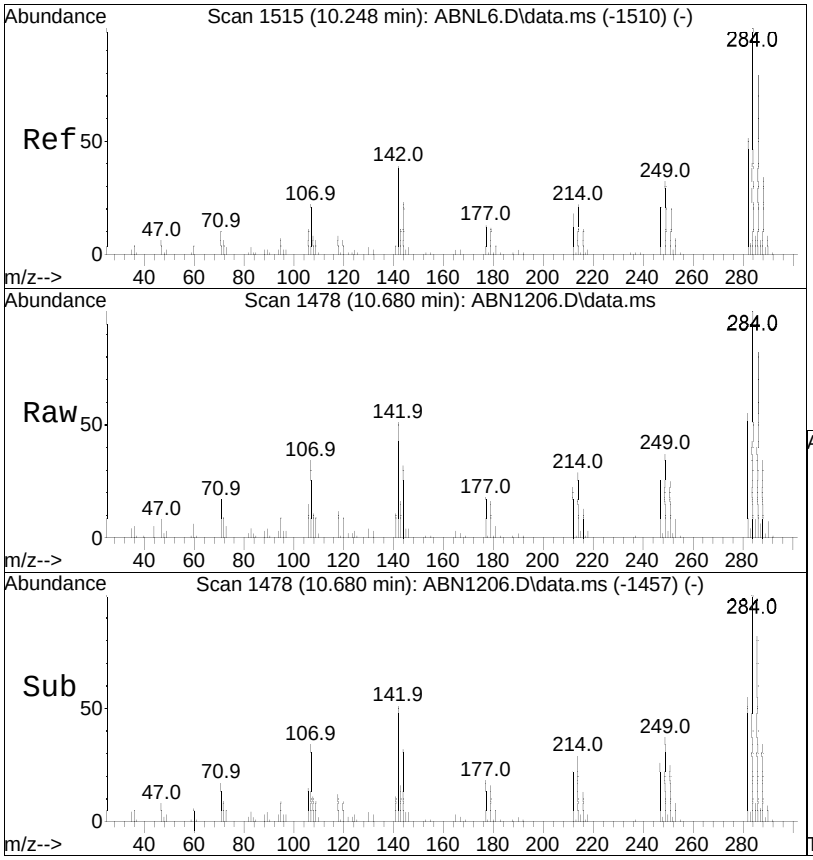


#79
4-Bromophenyl phenyl ether
Concen: 4.34 ug/ml
RT: 10.633 min Scan# 1470
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:248 Resp: 22896

Ion	Ratio	Lower	Upper
248	100		
141	75.9	76.6	114.8#
250	95.7	77.3	115.9

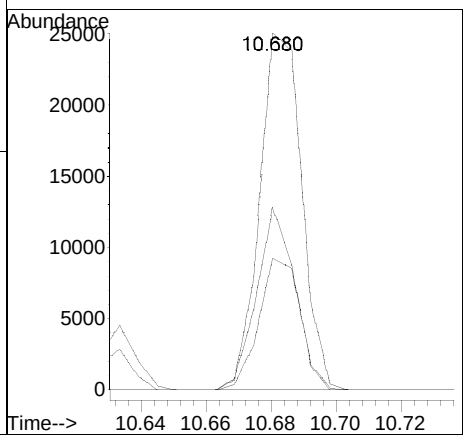


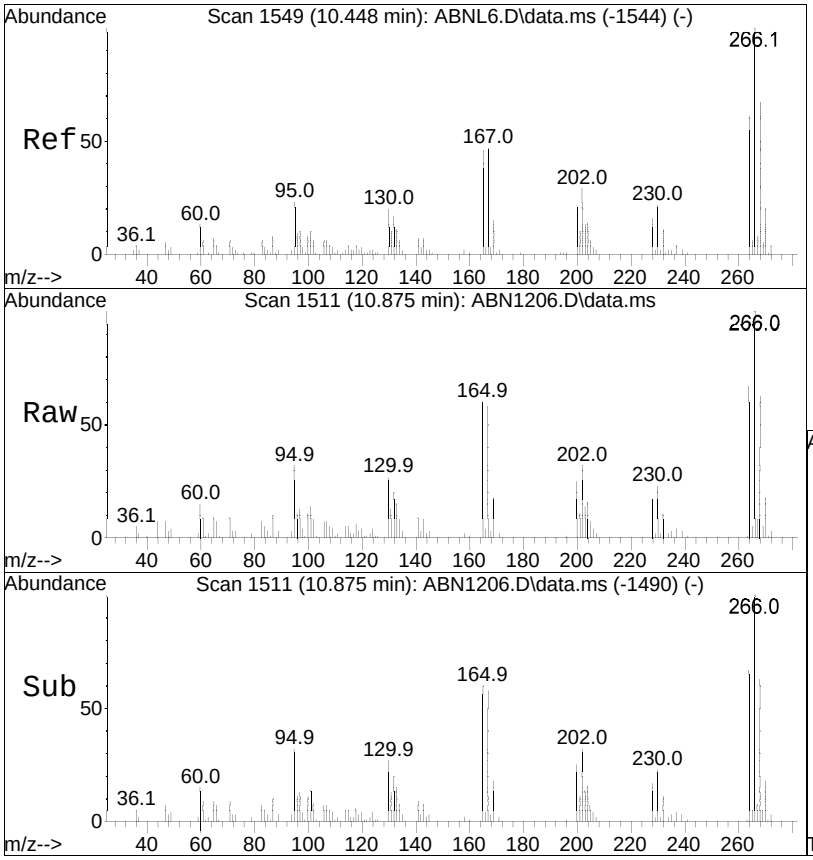


#80
Hexachlorobenzene
Concen: 4.07 ug/ml
RT: 10.680 min Scan# 1478
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:284 Resp: 22481

Ion	Ratio	Lower	Upper
284	100		
142	46.5	41.9	62.9
249	36.6	24.1	36.1#

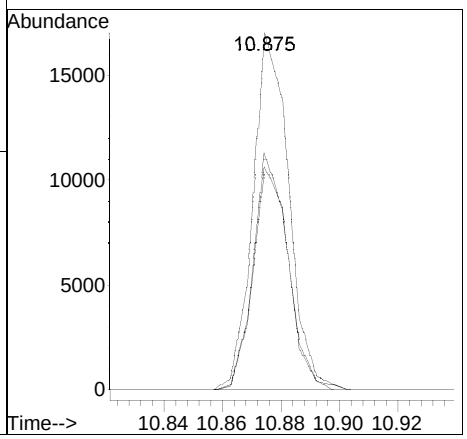


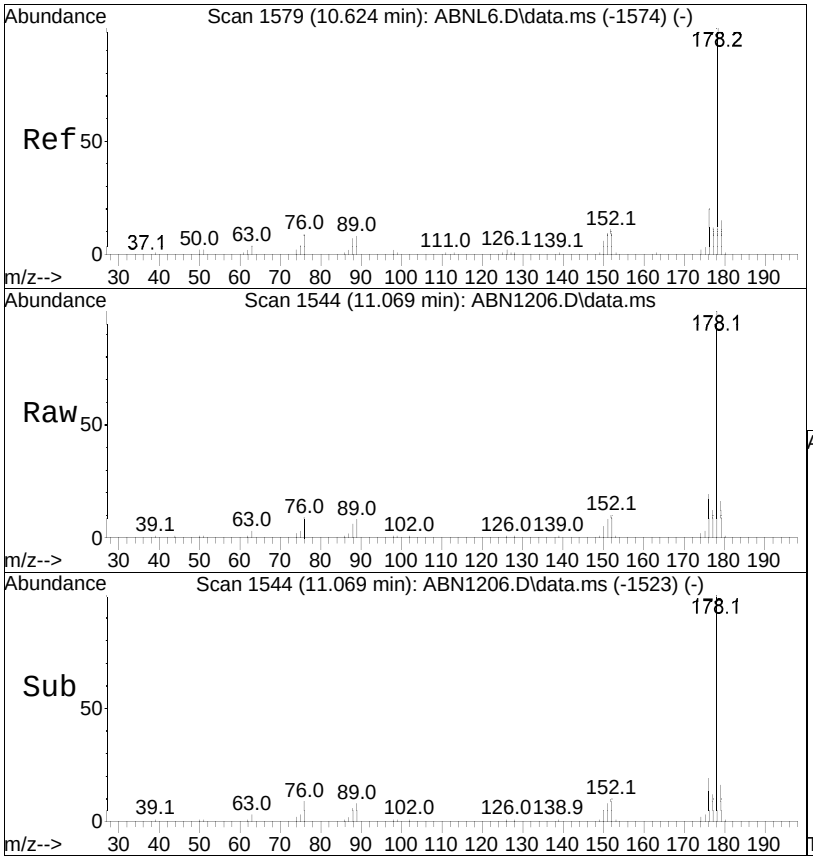


#81
Pentachlorophenol
Concen: 4.42 ug/ml
RT: 10.875 min Scan# 1511
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:266 Resp: 14417

Ion	Ratio	Lower	Upper
266	100		
264	64.2	49.7	74.5
268	62.2	50.5	75.7

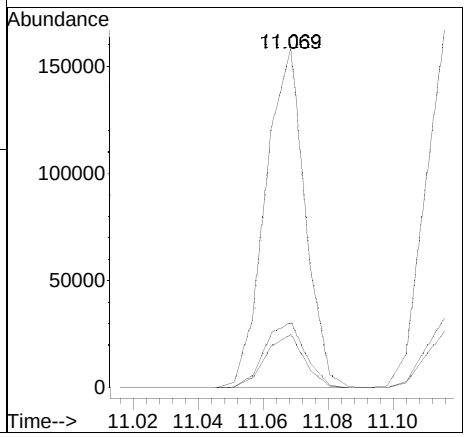


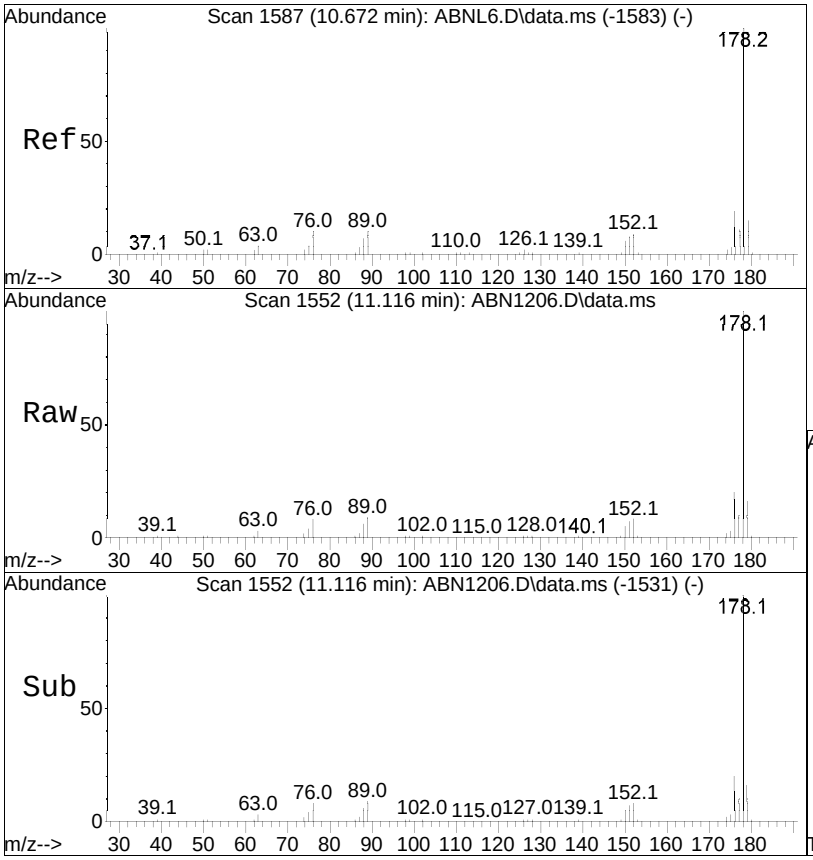


#88
Phenanthrene
Concen: 4.25 ug/ml
RT: 11.069 min Scan# 1544
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:178 Resp: 134212

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.2	18.2
176	19.8	15.4	23.2

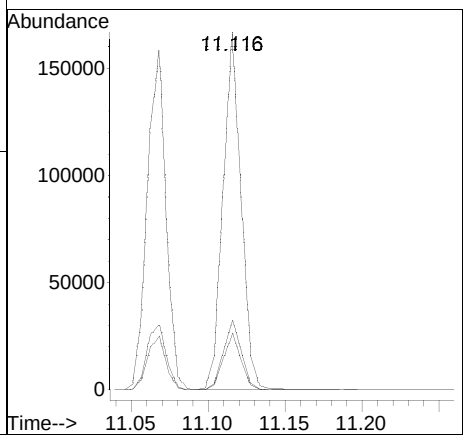


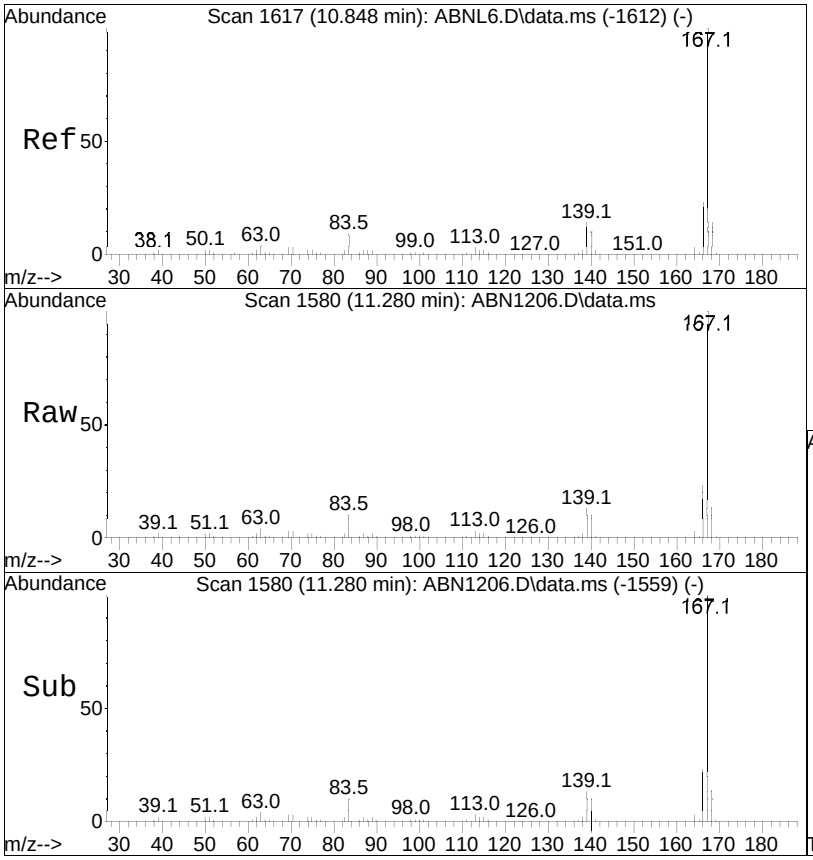


#89
Anthracene
Concen: 4.38 ug/ml
RT: 11.116 min Scan# 1552
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:178 Resp: 136315

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.0	18.0
176	19.3	14.6	22.0

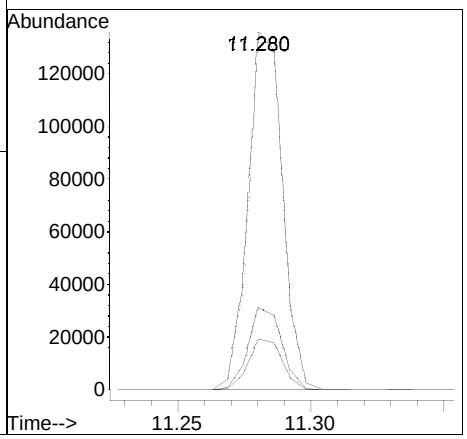


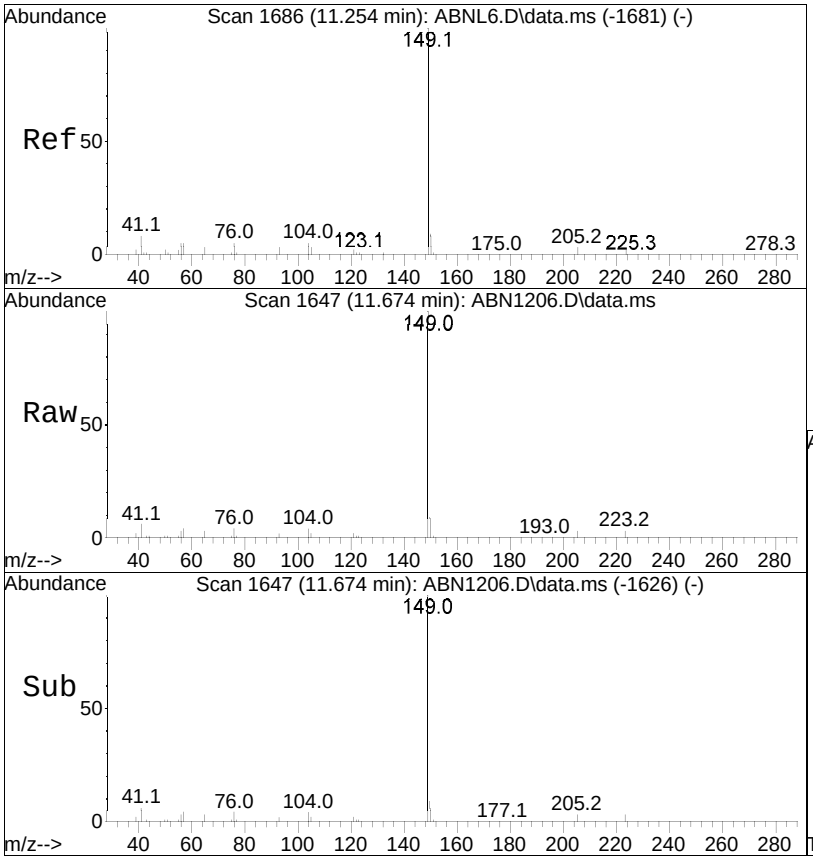


#90
Carbazole
Concen: 4.44 ug/ml
RT: 11.280 min Scan# 1580
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:167 Resp: 120760

Ion	Ratio	Lower	Upper
167	100		
168	14.1	10.6	15.8
166	22.7	17.4	26.0

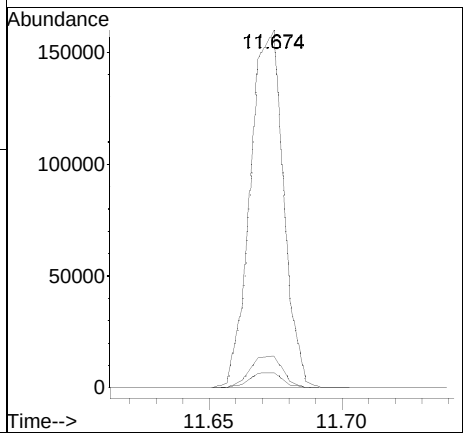


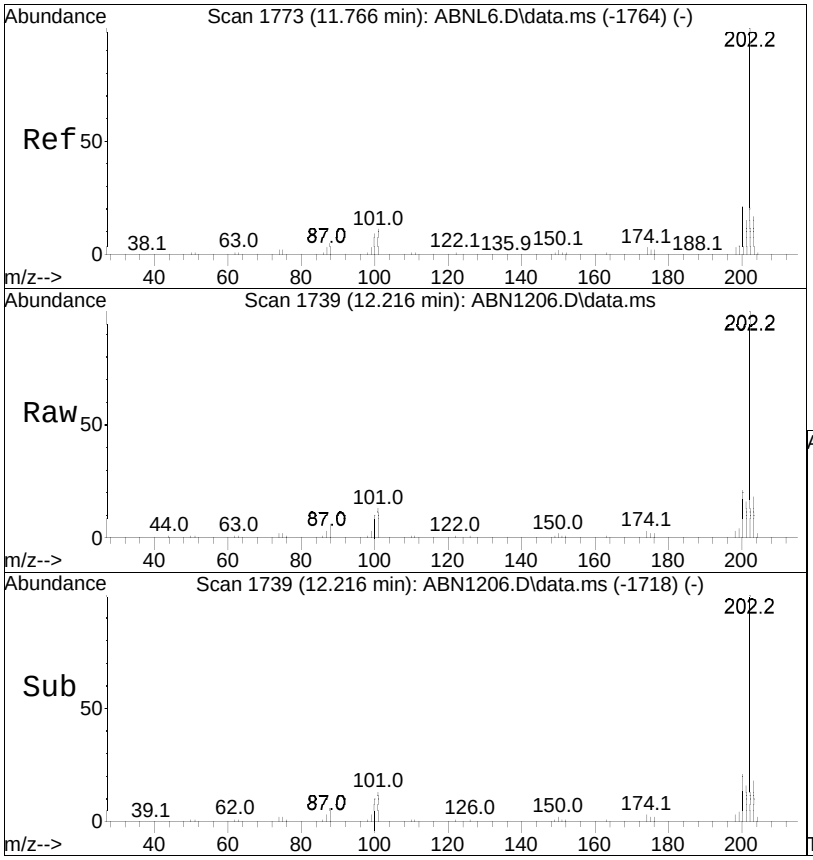


#91
Di-n-butylphthalate
Concen: 4.00 ug/ml
RT: 11.674 min Scan# 1647
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:149 Resp: 137108

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.0	10.6
104	4.5	4.5	6.7#

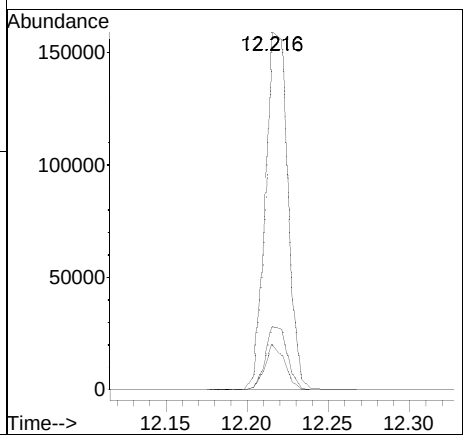


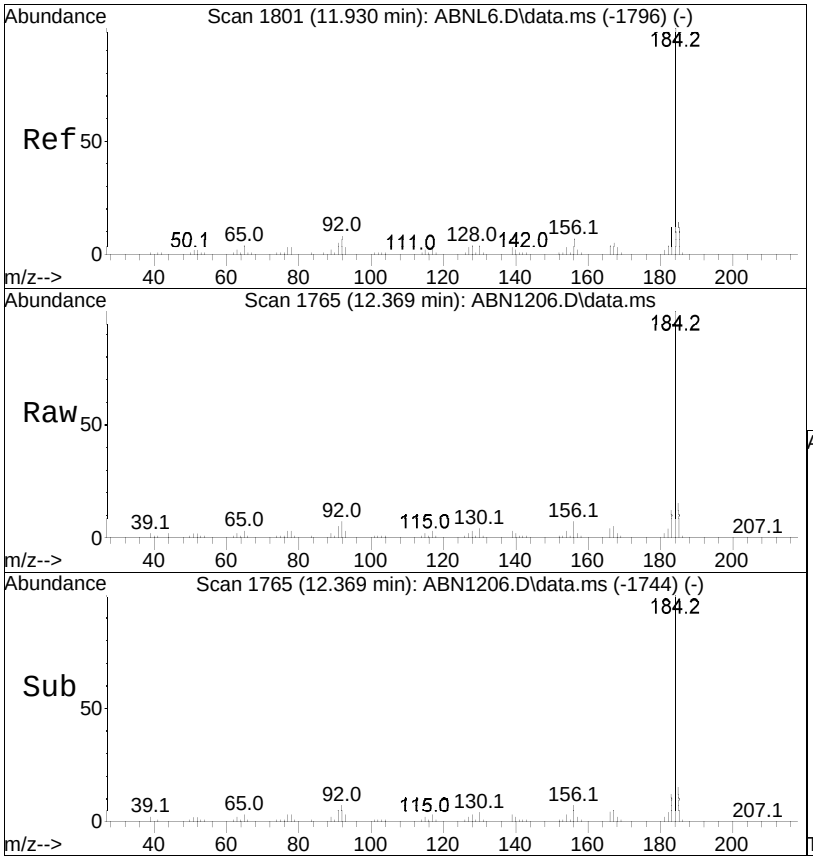


#92
Fluoranthene
Concen: 4.26 ug/ml
RT: 12.216 min Scan# 1739
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:202 Resp: 150644

Ion	Ratio	Lower	Upper
202	100		
101	11.6	13.5	20.3#
203	17.4	13.6	20.4

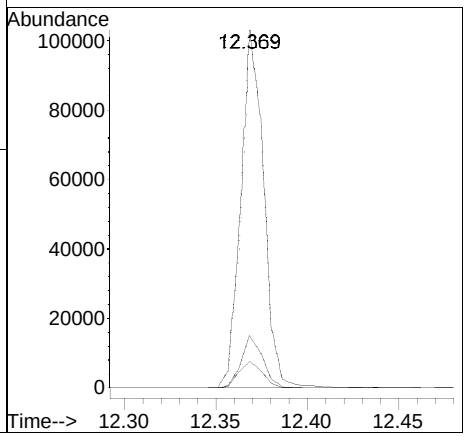


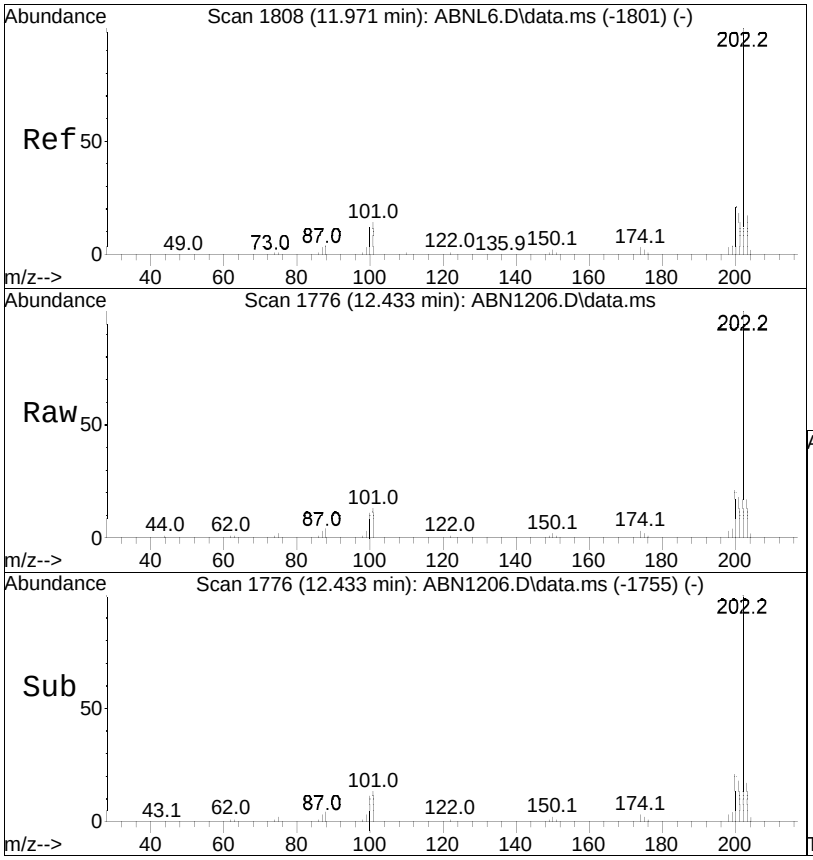


#93
Benzidine
Concen: 4.28 ug/ml
RT: 12.369 min Scan# 1765
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:184 Resp: 88175

Ion	Ratio	Lower	Upper
184	100		
92	7.8	9.1	13.7#
185	14.0	11.1	16.7

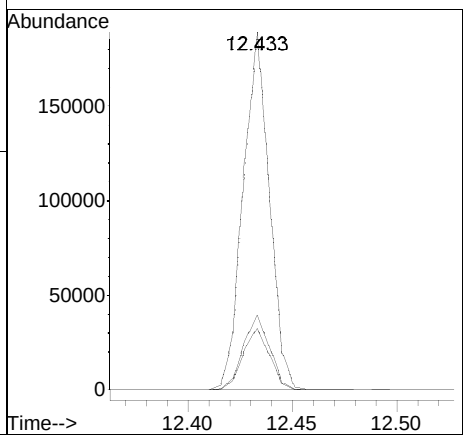


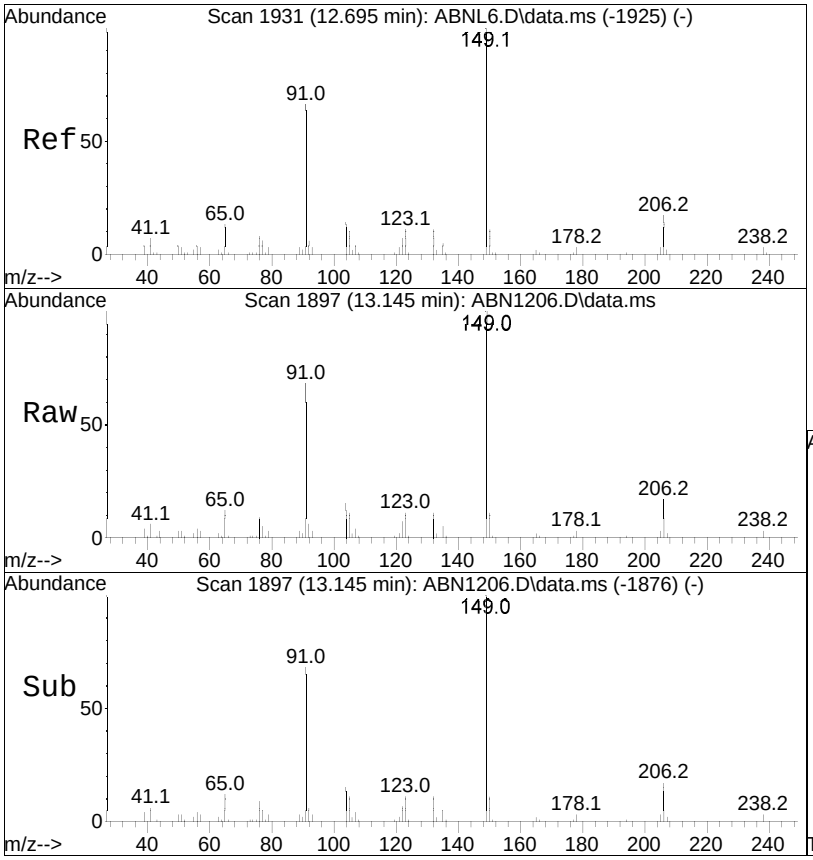


#94
Pyrene
Concen: 4.34 ug/ml
RT: 12.433 min Scan# 1776
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:202 Resp: 163359

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.7	25.1
203	17.5	14.2	21.4

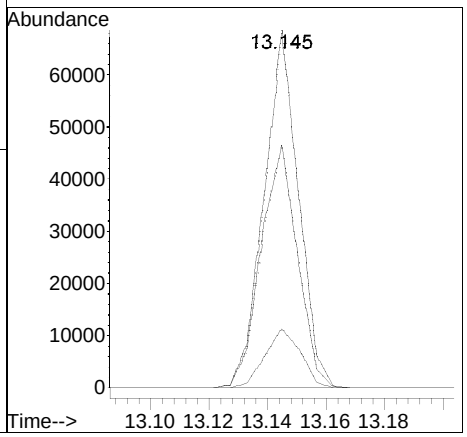


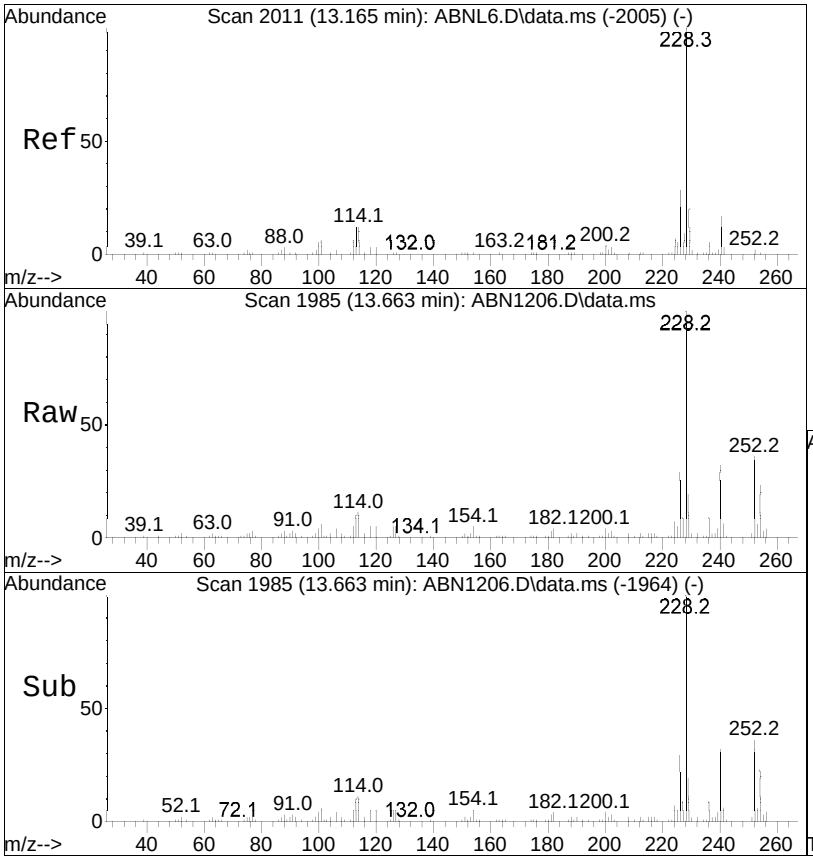


#96
Butyl benzyl phthalate
Concen: 3.89 ug/ml
RT: 13.145 min Scan# 1897
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:149 Resp: 55531

Ion	Ratio	Lower	Upper
149	100		
91	71.9	63.3	94.9
206	17.2	13.9	20.9

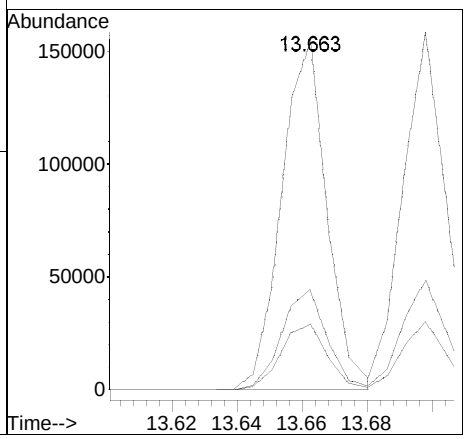


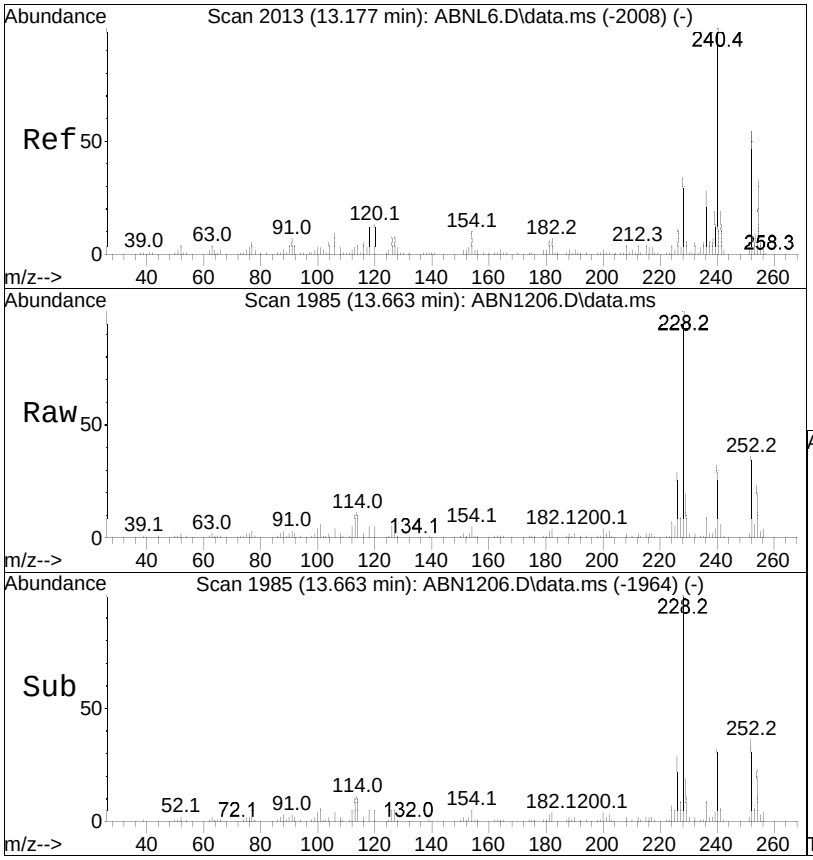


#104
Benzo(a)anthracene
Concen: 4.42 ug/ml
RT: 13.663 min Scan# 1985
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:228 Resp: 149663

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.2	33.4
229	19.4	15.6	23.4

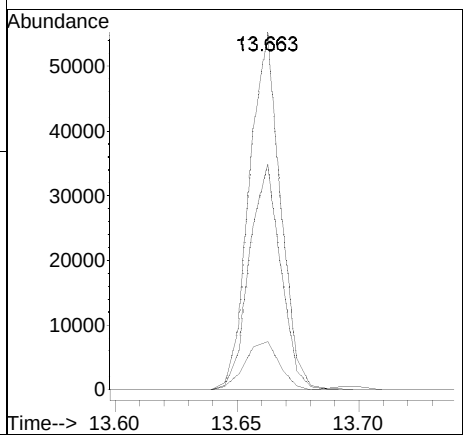


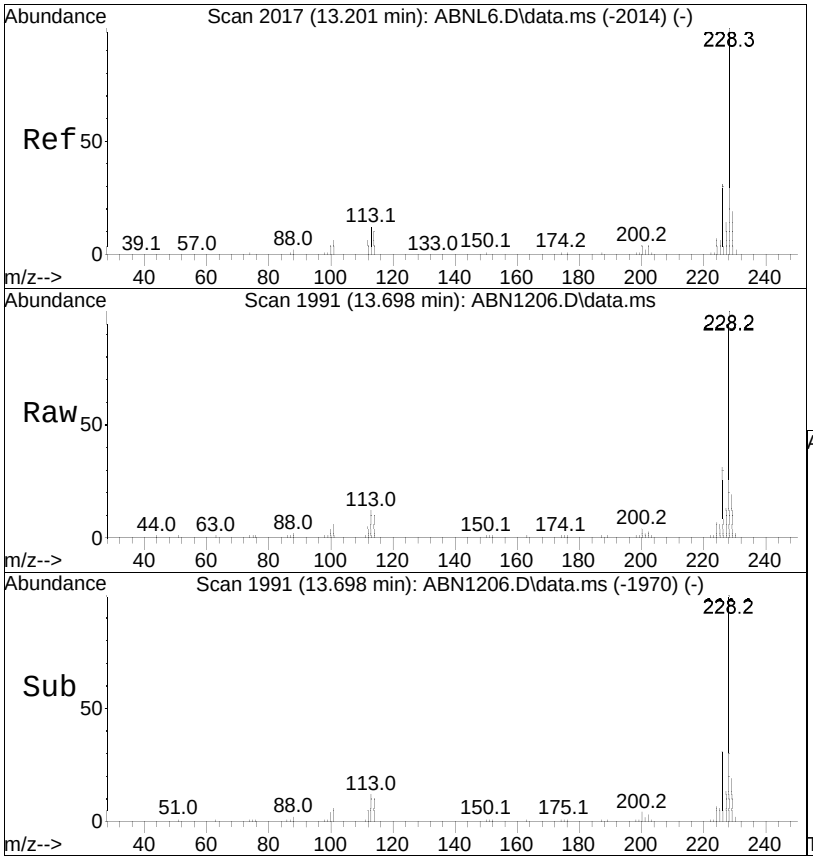


#105
3,3'-Dichlorobenzidine
Concen: 4.24 ug/ml
RT: 13.663 min Scan# 1985
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:252 Resp: 48797

Ion	Ratio	Lower	Upper
252	100		
126	15.2	14.5	21.7
254	63.6	51.2	76.8

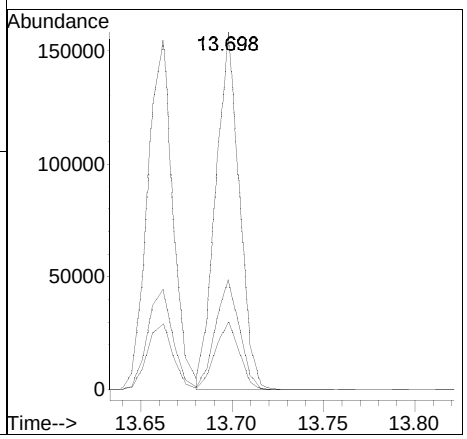


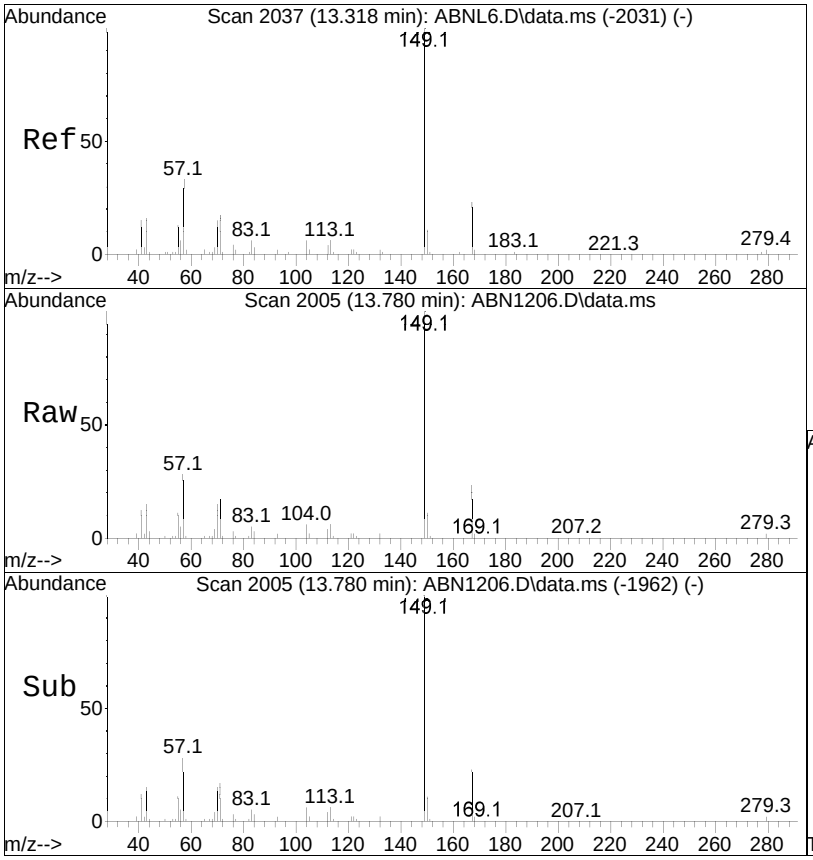


#106
Chrysene
Concen: 4.25 ug/ml
RT: 13.698 min Scan# 1991
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:228 Resp: 143142

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.0	36.0
229	19.2	15.8	23.8

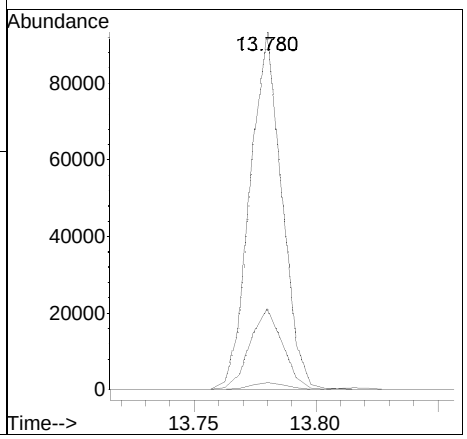


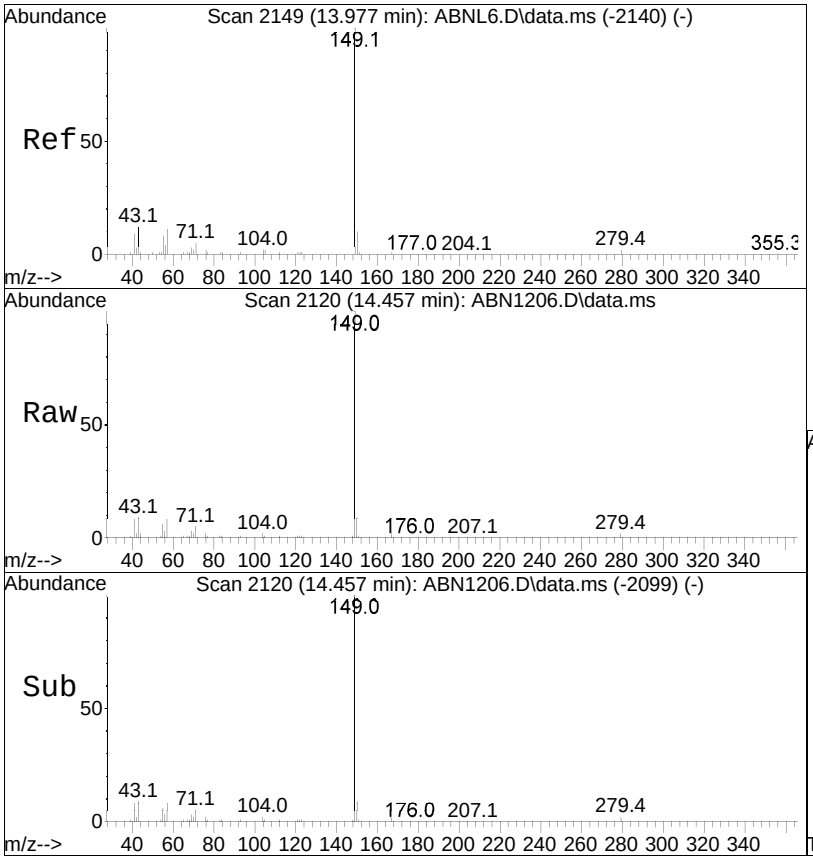


#107
Bis(2-ethylhexyl)phthalate
Concen: 3.95 ug/ml
RT: 13.780 min Scan# 2005
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:149 Resp: 84196

Ion	Ratio	Lower	Upper
149	100		
167	23.3	22.1	33.1
279	1.9	3.0	4.4#

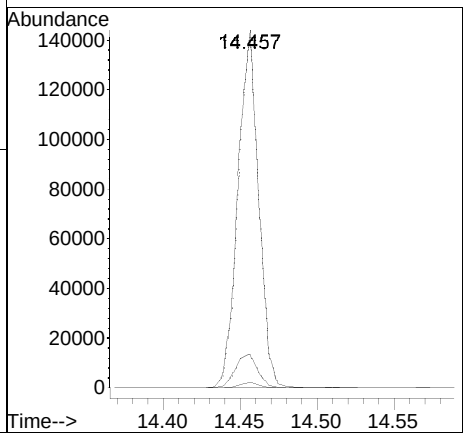


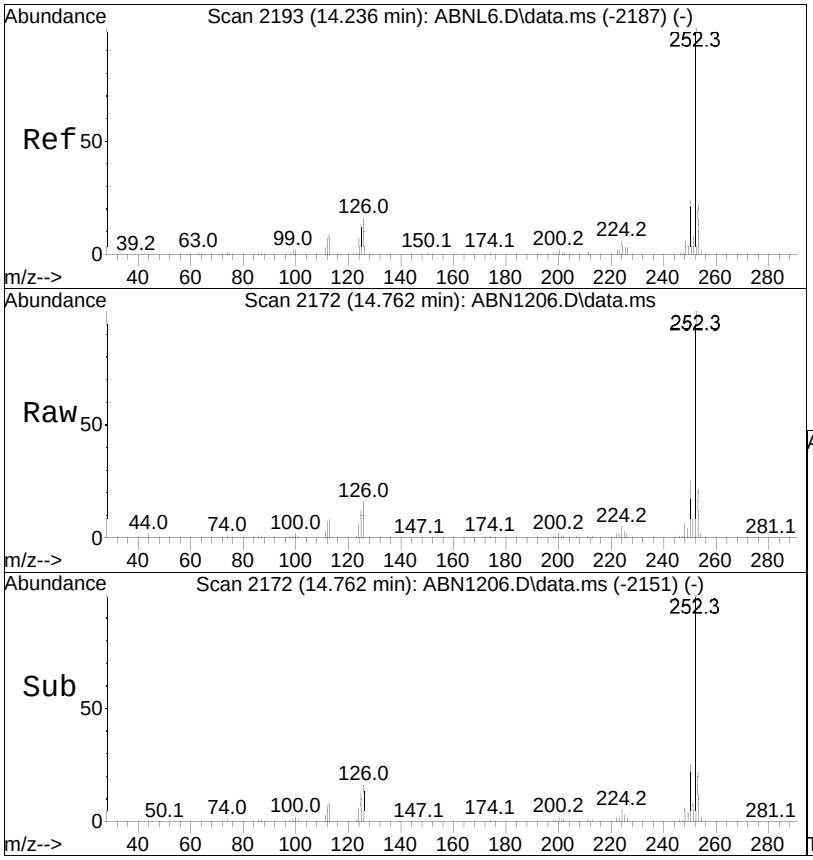


#108
Di-n-octylphthalate
Concen: 3.79 ug/ml
RT: 14.457 min Scan# 2120
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:149 Resp: 132158

Ion	Ratio	Lower	Upper
149	100		
43	10.3	18.8	28.2#
167	1.4	1.3	1.9

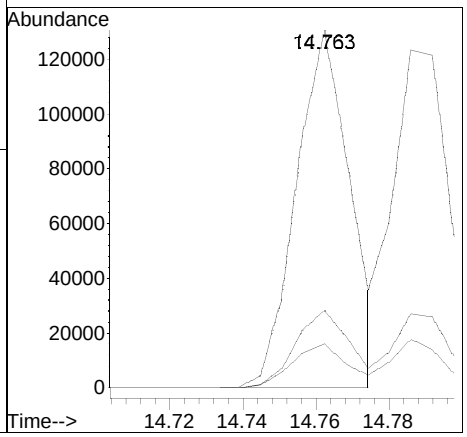


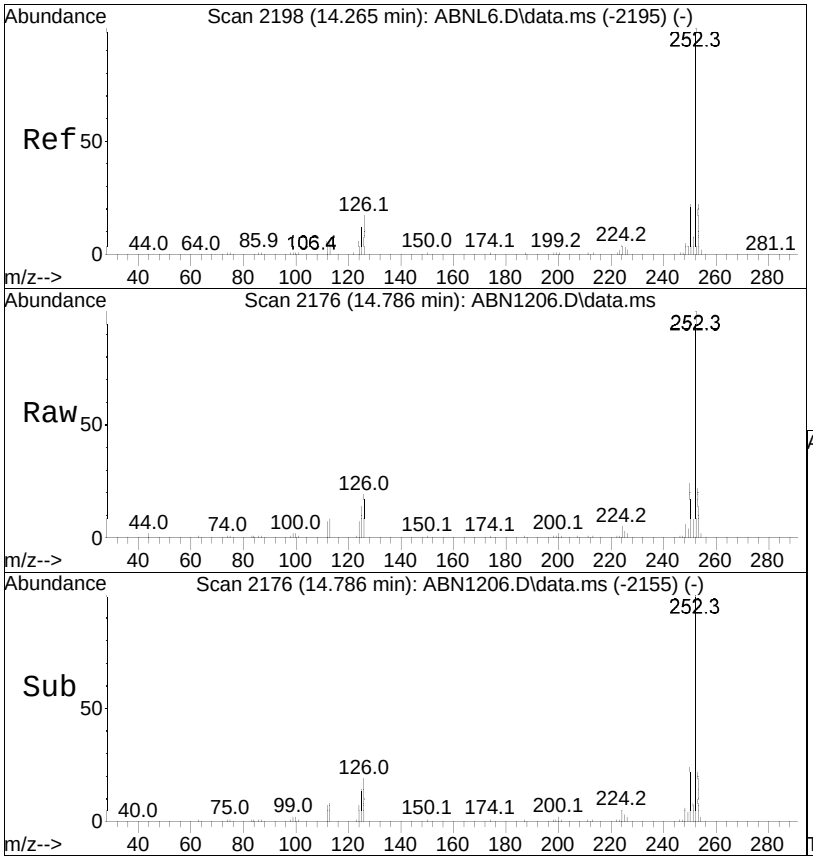


#109
Benzo(b)fluoranthene
Concen: 4.27 ug/ml
RT: 14.762 min Scan# 2172
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:252 Resp: 134621

Ion	Ratio	Lower	Upper
252	100		
125	12.9	13.3	19.9#
253	21.9	17.1	25.7

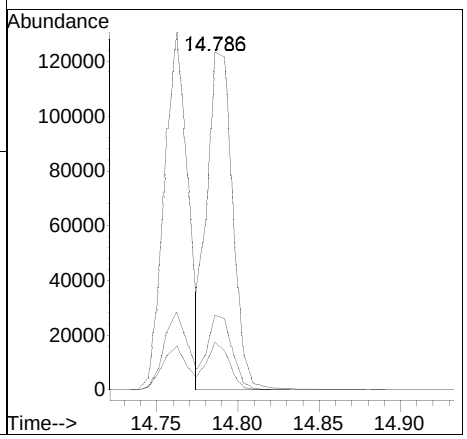


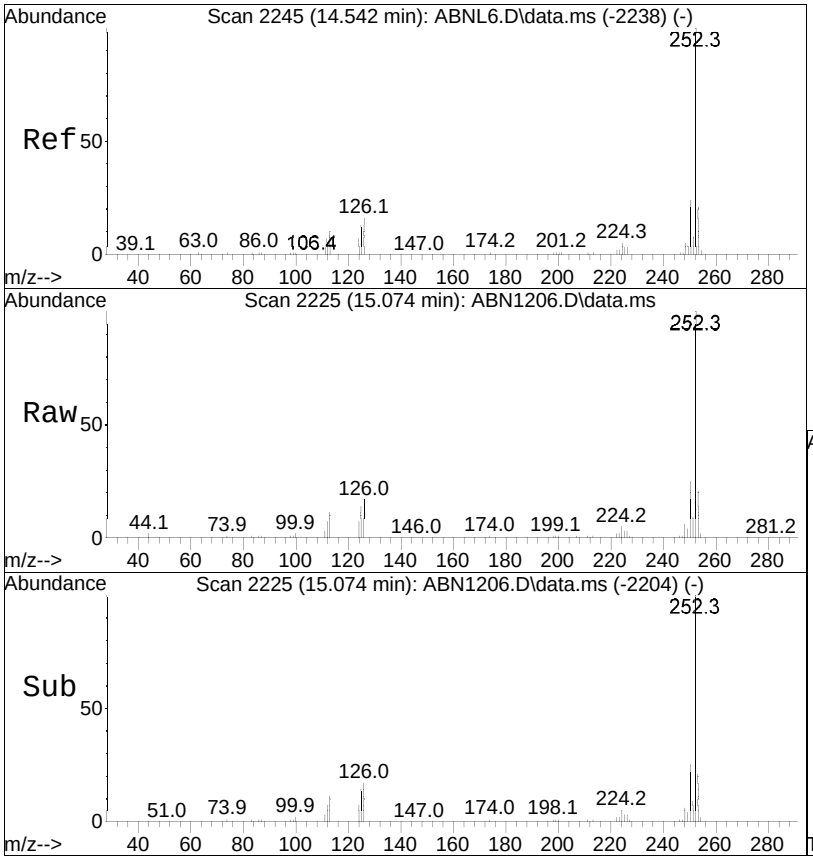


#110
Benzo(k)fluoranthene
Concen: 4.40 ug/ml
RT: 14.786 min Scan# 2176
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:252 Resp: 134069

Ion	Ratio	Lower	Upper
252	100		
125	12.6	13.0	19.6#
253	21.4	16.8	25.2

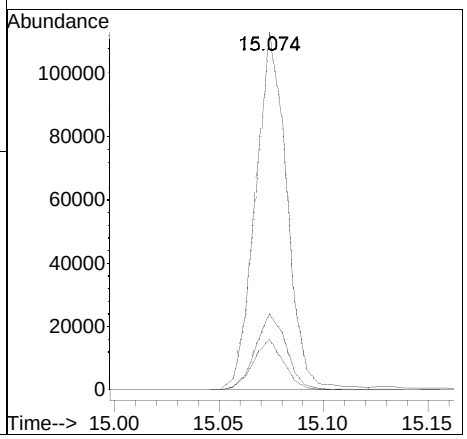


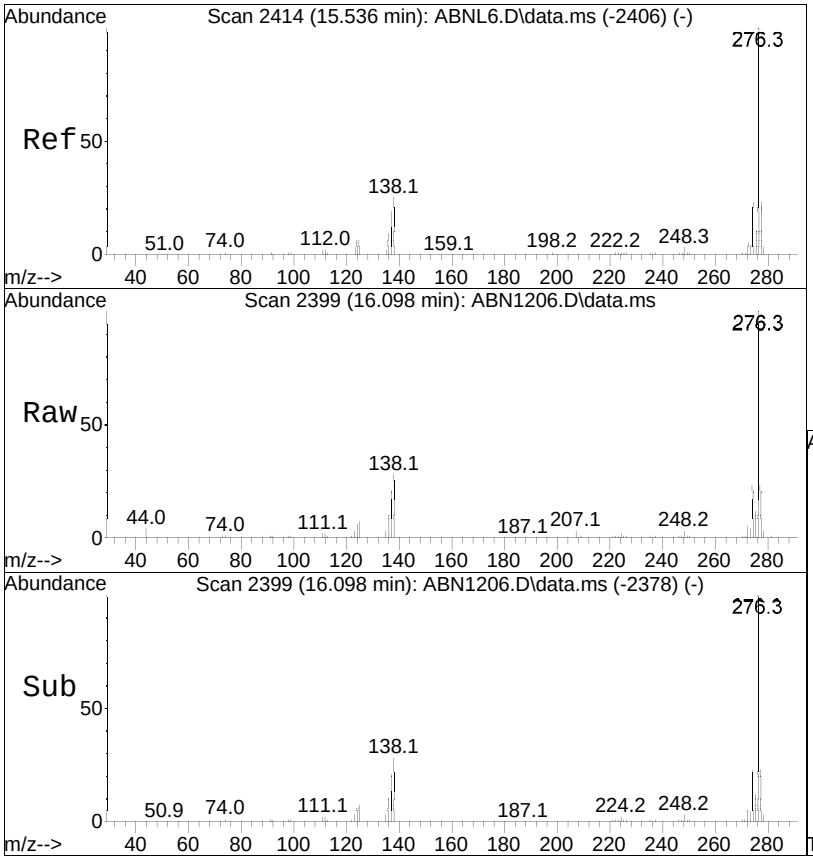


#111
Benzo(a)pyrene
Concen: 4.32 ug/ml
RT: 15.074 min Scan# 2225
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:252 Resp: 116933

Ion	Ratio	Lower	Upper
252	100		
125	13.9	14.2	21.2#
253	21.4	16.9	25.3

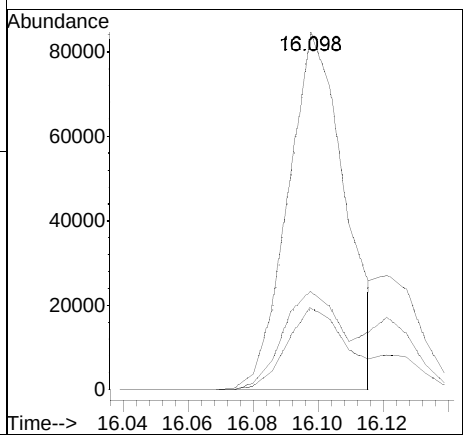


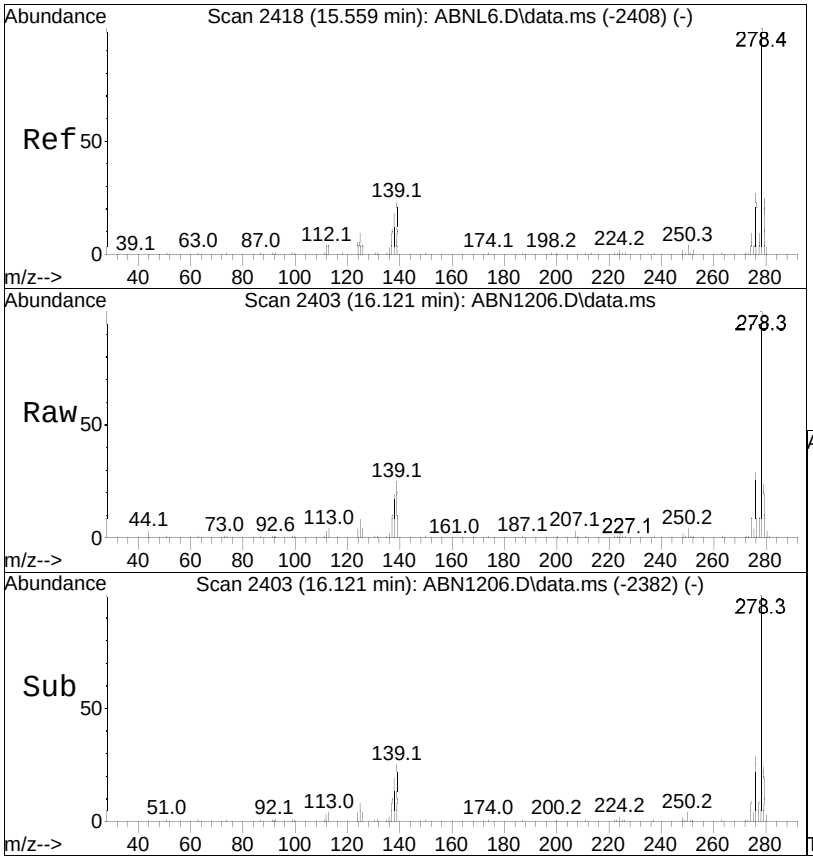


#113
Indeno(1,2,3-cd)pyrene
Concen: 4.71 ug/mL M6
RT: 16.098 min Scan# 2399
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:276 Resp: 104472

Ion	Ratio	Lower	Upper
276	100		
138	32.2	25.1	37.7
277	31.6	18.6	28.0#

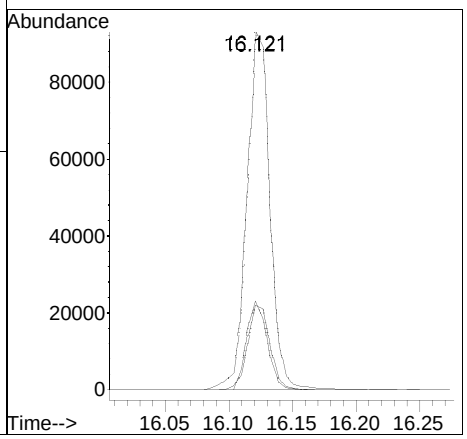


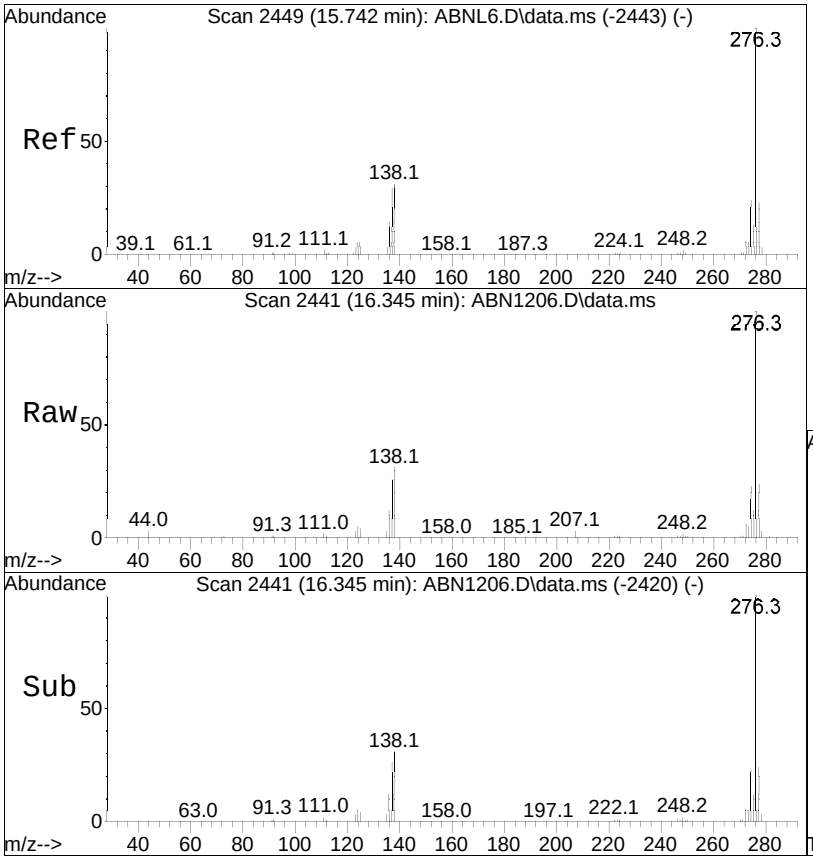


#114
Dibenzo(a,h)anthracene
Concen: 4.67 ug/ml
RT: 16.121 min Scan# 2403
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:278 Resp: 116073

Ion	Ratio	Lower	Upper
278	100		
139	22.4	20.8	31.2
279	23.0	18.3	27.5

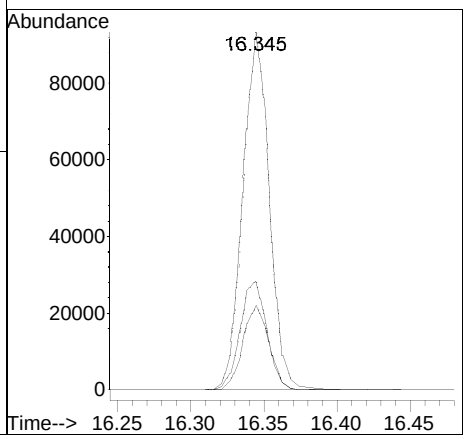




#115
Benzo(ghi)perylene
Concen: 4.65 ug/ml
RT: 16.345 min Scan# 2441
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 6 Dec 2023 7:03 am

Tgt Ion:276 Resp: 116611

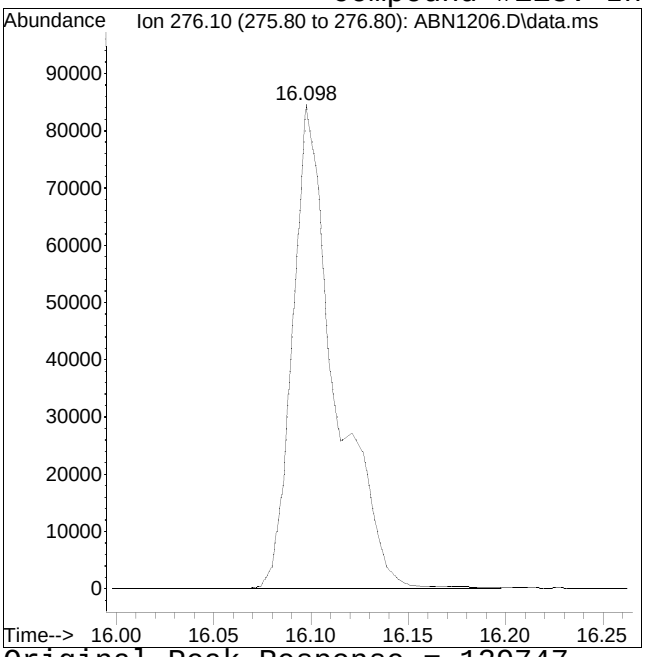
Ion	Ratio	Lower	Upper
276	100		
138	30.9	29.2	43.8
277	23.6	18.8	28.2



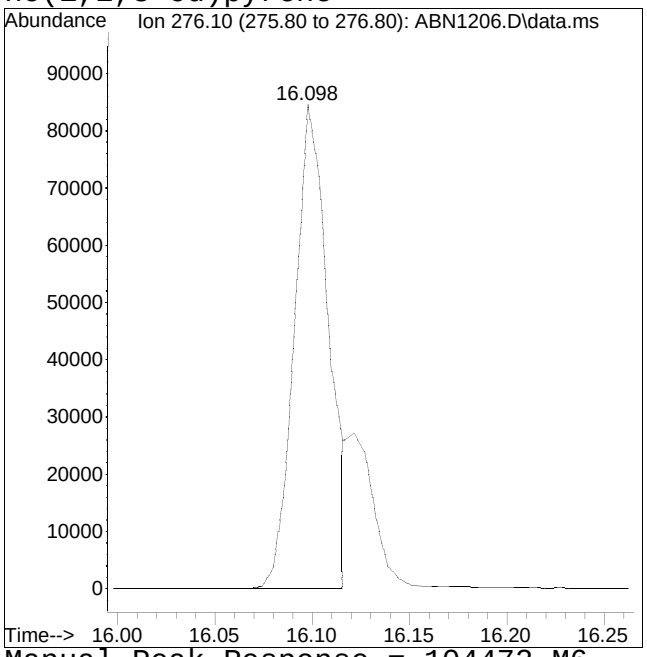
Manual Integration Report

Data Path : I:\8270\SV107\231206lvi\ QMethod : FS231025SV107.m
Data File : ABN1206.D Operator : SV107:sz
Date Inj'd : 12/6/2023 7:03 am Instrument : SV107
Sample : wg1860349-3,32,,ABN LVI CCQuant Date : 12/6/2023 7:31 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 129747



Manual Peak Response = 104472 M6

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\231206lvi\
Data File : AP91206.D
Acq On : 6 Dec 2023 7:29 am
Operator : SV107:sz
Sample : wg1860349-4,32,,AP9 LVI CCV Lot # 10299
Misc : wg1860349,,ical20485
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 06 07:50:28 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:50:07 2023
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
28	T	Benzaldehyde	0.929	1.027	-10.5	107	0.00
29	T	Acetophenone	1.694	1.674	1.2	101	0.00
30	T	m-Toluidine	1.560	1.643	-5.3	104	0.00
31	T	2-Chloroaniline	1.486	1.494	-0.5	101	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	102	0.00
55	T	a-Terpineol	0.334	0.272	18.6	82	0.00
56	T	3-Chloroaniline	0.157	0.139	11.5	89	0.00
57	T	2,6-Dichlorophenol	0.265	0.267	-0.8	101	0.00
58	T	1-chloro-2-nitrobenzene	0.143	0.133	7.0	96	0.00
59	T	Caprolactam	0.193	0.143	25.9#	80	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.331	0.346	-4.5	103	0.00
61	T	Biphenyl	0.813	0.819	-0.7	99	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	96	0.00
83	T	Dichloran	0.158	0.132	16.5	92	0.00
84	T	Pentachloronitrobenzene	0.161	0.139	13.7	88	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	96	0.00
98	T	Diphenamid	0.448	0.382	14.7	80	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231206lvi\
Data File : AP91206.D
Acq On : 6 Dec 2023 7:29 am
Operator : SV107:sz
Sample : wg1860349-4,32,,AP9 LVI CCV Lot # 10299
Misc : wg1860349,,ical20485
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 06 07:50:28 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:50:07 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	6.434	152	28172	4.000	ug/ml	0.00
54) IS2_Naphthalene-d8	7.851	136	105283	4.000	ug/ml	0.00
82) IS2_Acenaphthene-d10	9.610	164	58558	4.000	ug/ml	0.00
97) IS2_Phenanthrene-d10	11.045	188	117355	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	5.857	105	36155	5.525	ug/ml	95
29) Acetophenone	6.928	105	58941	4.941	ug/ml#	81
30) m-Toluidine	7.028	106	57845	5.265	ug/ml	95
31) 2-Chloroaniline	7.434	127	52600	5.027	ug/ml#	93
55) a-Terpineol	7.922	59	35766	4.071	ug/ml#	86
56) 3-Chloroaniline	7.940	65	18264	4.422	ug/ml	91
57) 2,6-Dichlorophenol	7.963	162	35190	5.042	ug/ml#	89
58) 1-chloro-2-nitrobenzene	8.234	111	17458	4.653	ug/ml#	1
59) Caprolactam	8.269	55	18845	3.705	ug/ml#	80
60) 1,2,4,5-Tetrachloroben...	8.763	216	45496	5.221	ug/ml	97
61) Biphenyl	9.063	154	107823	5.036	ug/ml	100
83) Dichloran	10.739	206	9667	4.188	ug/ml#	71
84) Pentachloronitrobenzene	10.892	237	10208	4.324	ug/ml#	82
98) Diphenamid	11.951	167	56058	4.267	ug/ml	87

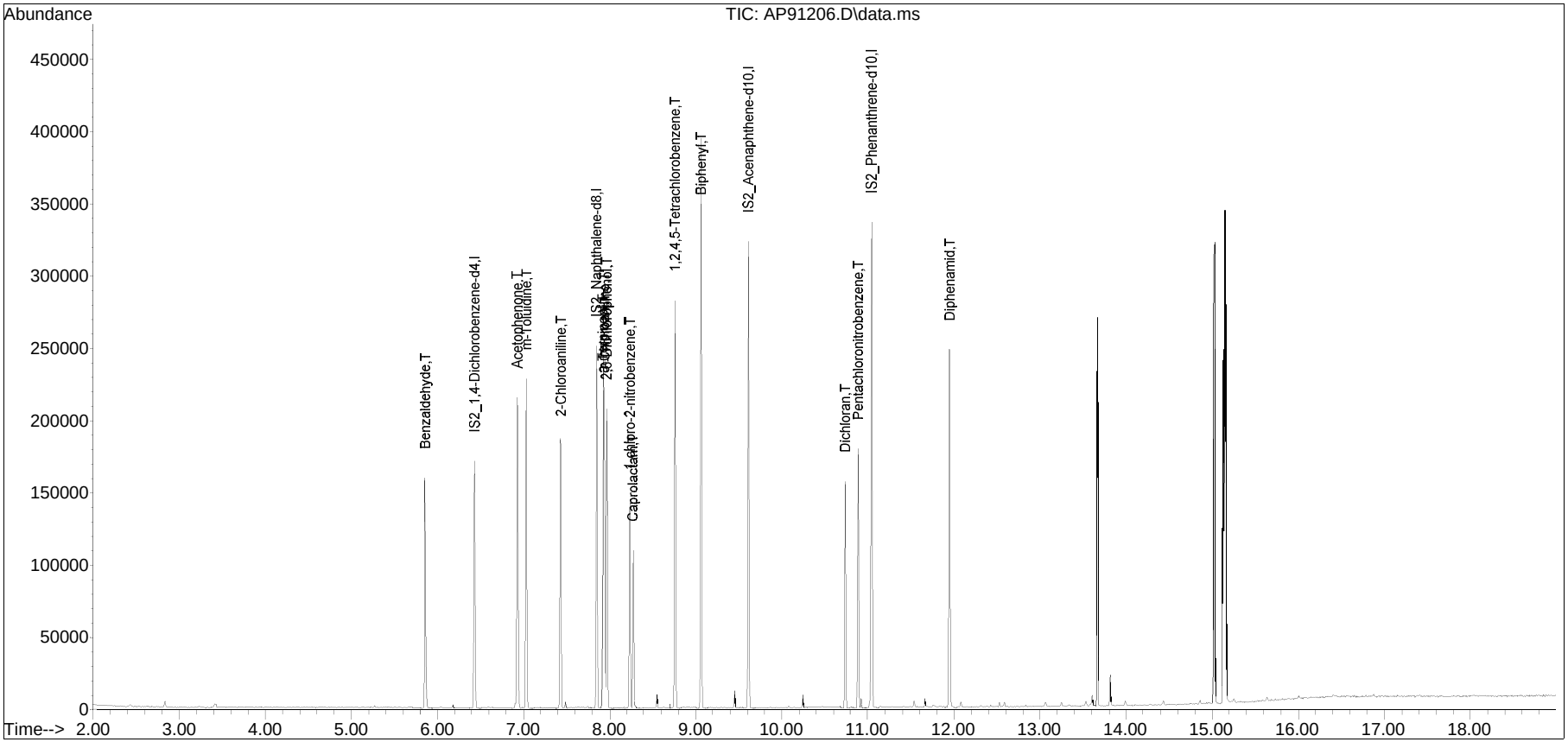
(#) = qualifier out of range (m) = manual integration (+) = signals summed

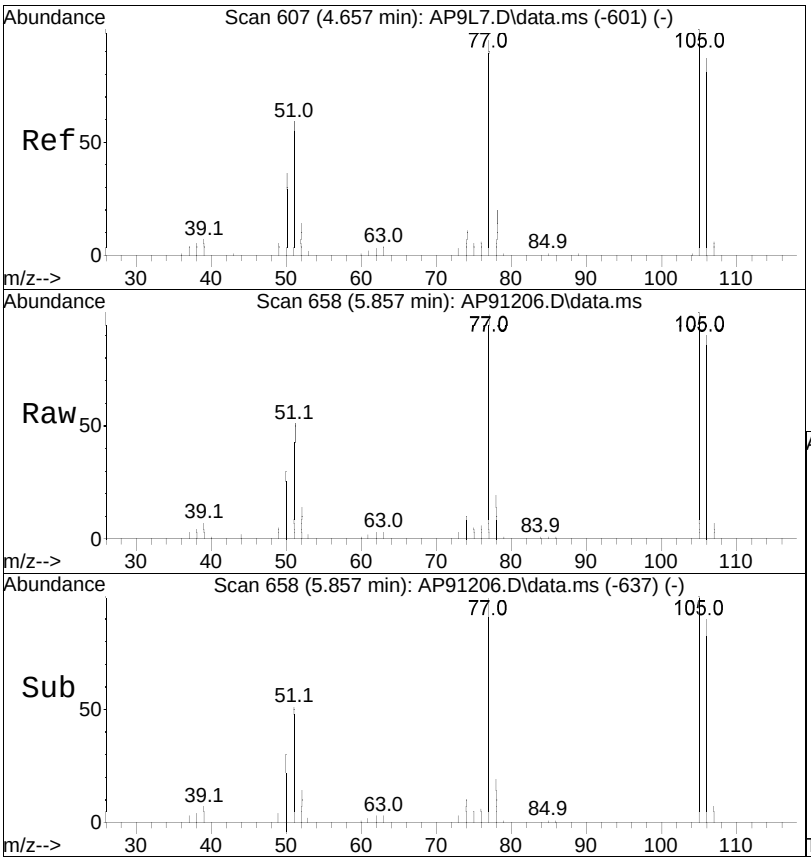
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231206lvi\
Data File : AP91206.D
Acq On : 6 Dec 2023 7:29 am
Operator : SV107:sz
Sample : wg1860349-4,32,,AP9 LVI CCV Lot # 10299
Misc : wg1860349,,ical20485
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 06 07:50:28 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:50:07 2023
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

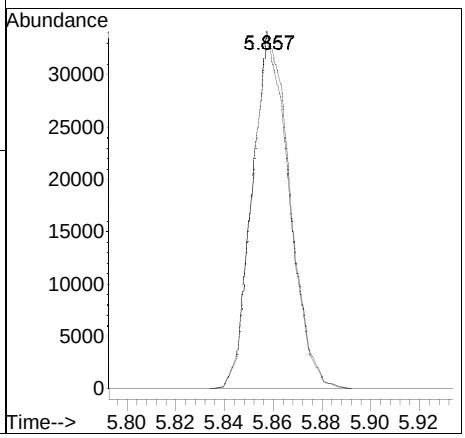


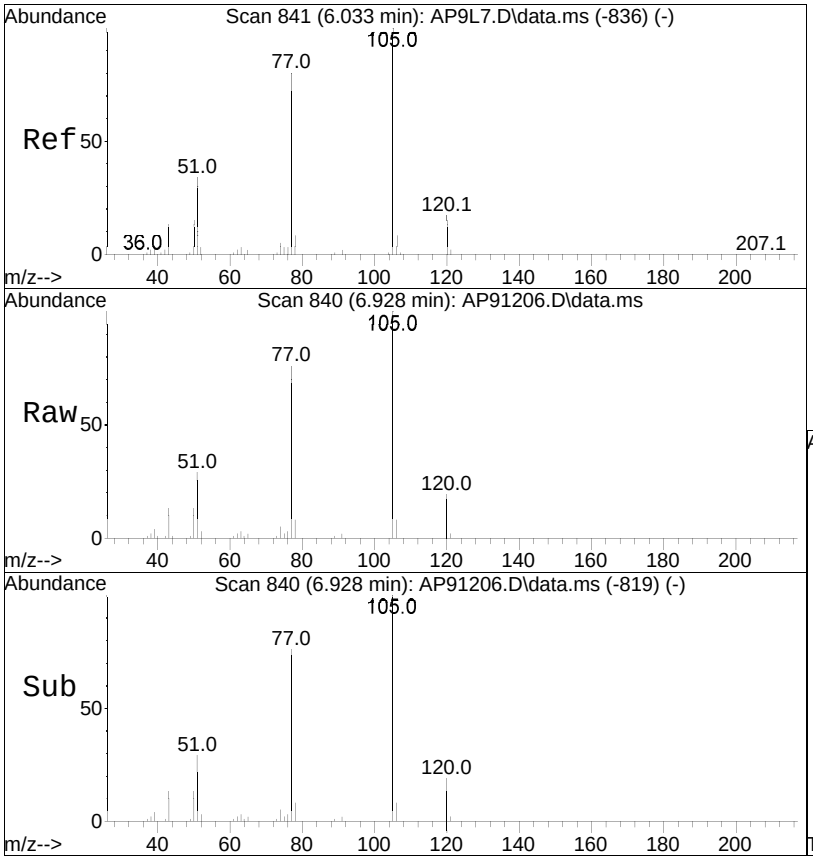


#28
Benzaldehyde
Concen: 5.53 ug/ml
RT: 5.857 min Scan# 658
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion:105 Resp: 36155

Ion	Ratio	Lower	Upper
105	100		
77	97.6	82.2	123.4

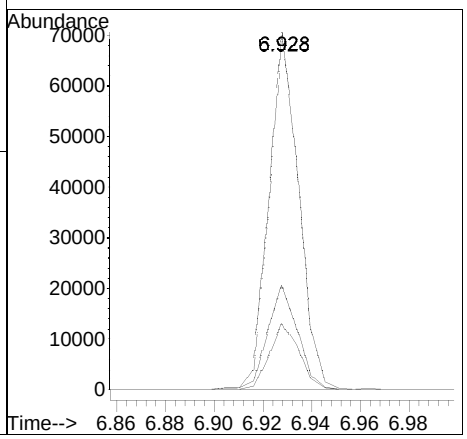


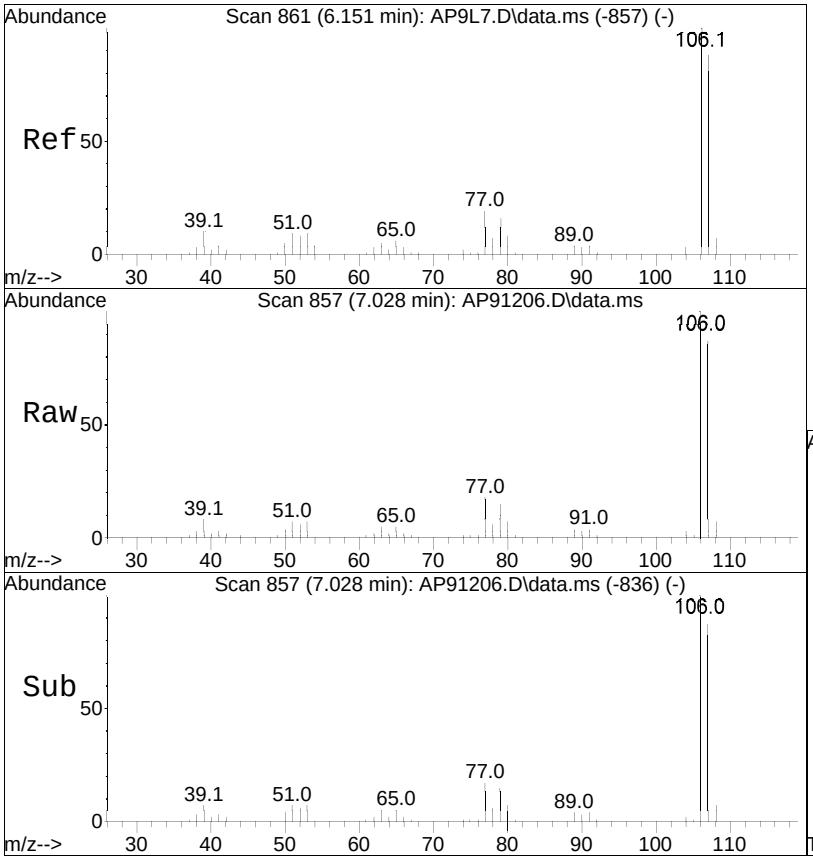


#29
Acetophenone
Concen: 4.94 ug/ml
RT: 6.928 min Scan# 840
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion:105 Resp: 58941

Ion	Ratio	Lower	Upper
105	100		
120	18.6	20.5	30.7#
51	29.8	34.9	52.3#

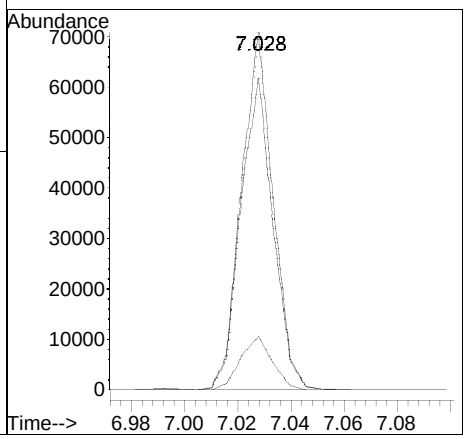


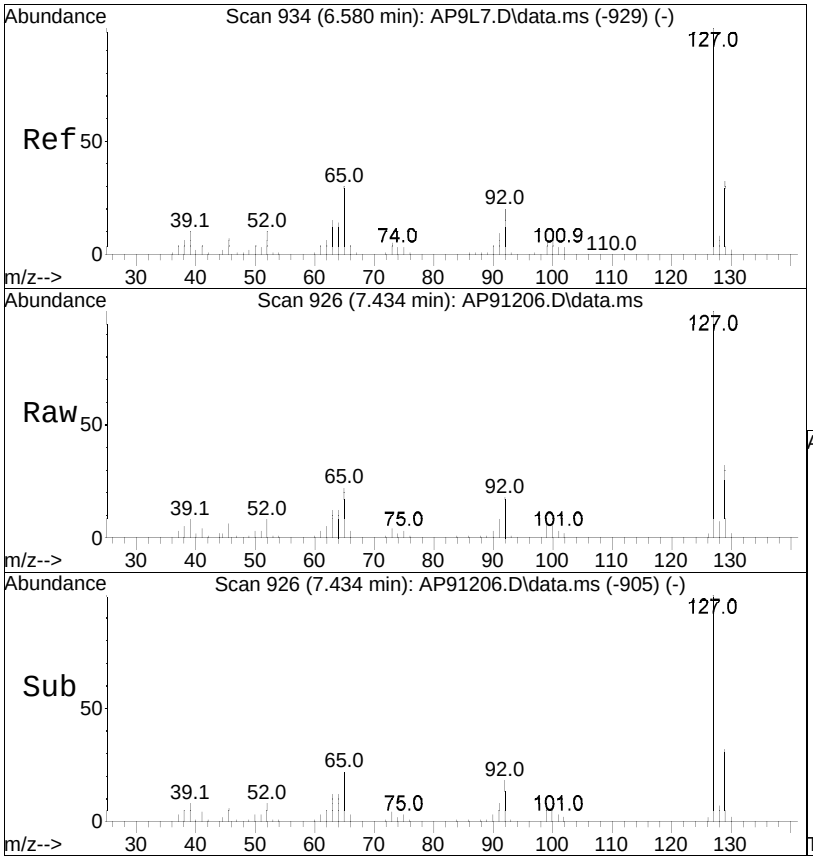


#30
m-Toluidine
Concen: 5.27 ug/ml
RT: 7.028 min Scan# 857
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion:106 Resp: 57845

Ion	Ratio	Lower	Upper
106	100		
107	89.2	75.7	113.5
79	15.1	11.8	17.8

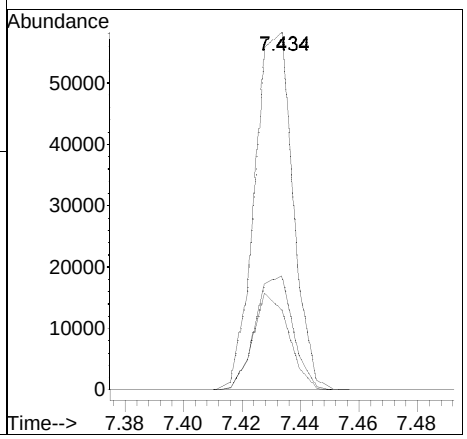


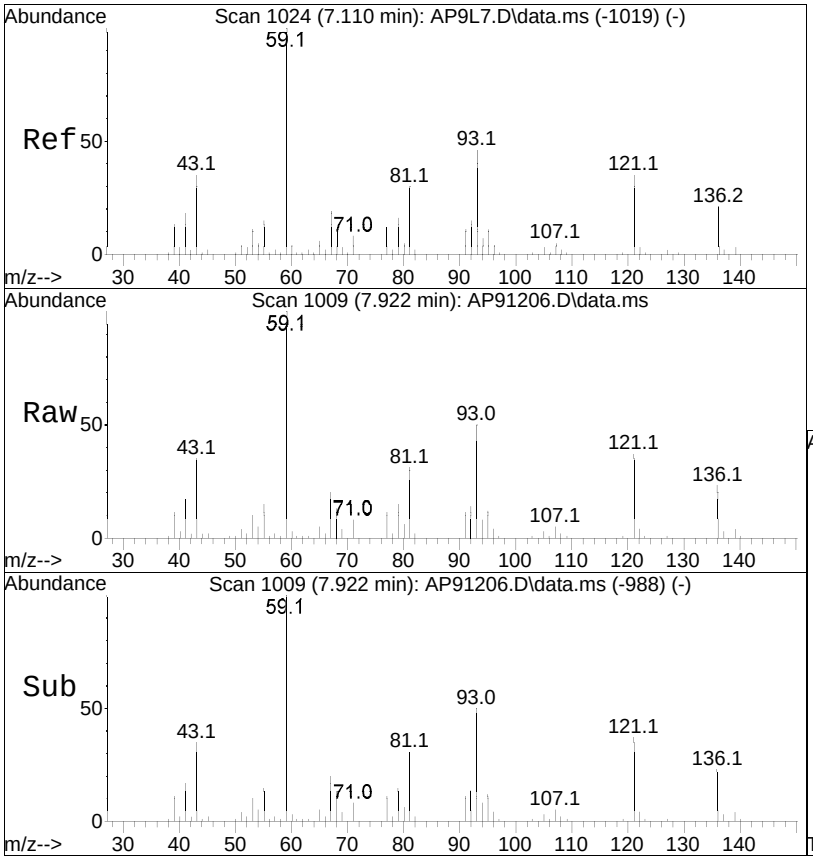


#31
2-Chloroaniline
Concen: 5.03 ug/ml
RT: 7.434 min Scan# 926
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion:127 Resp: 52600

Ion	Ratio	Lower	Upper
127	100		
129	31.6	25.9	38.9
65	25.5	26.3	39.5#

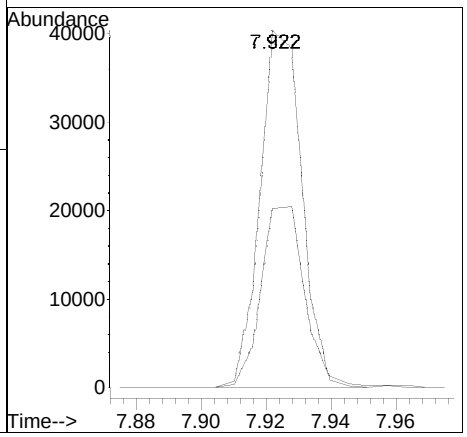


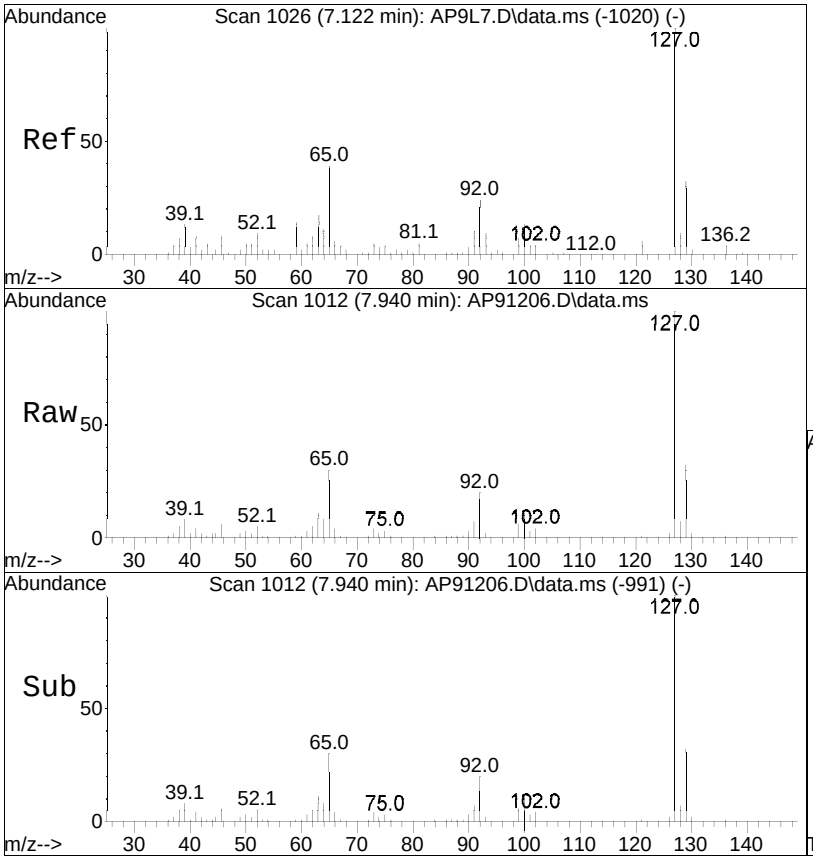


#55
a-Terpineol
Concen: 4.07 ug/ml
RT: 7.922 min Scan# 1009
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion: 59 Resp: 35766

Ion	Ratio	Lower	Upper
59	100		
93	53.8	35.6	53.4#

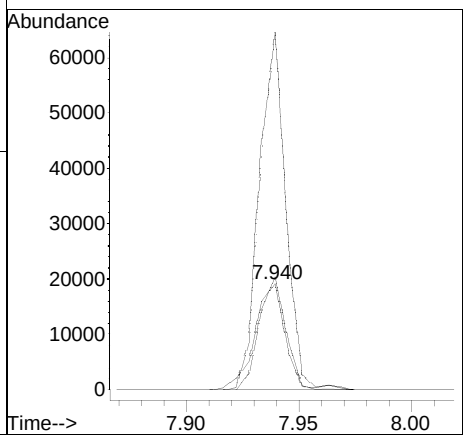


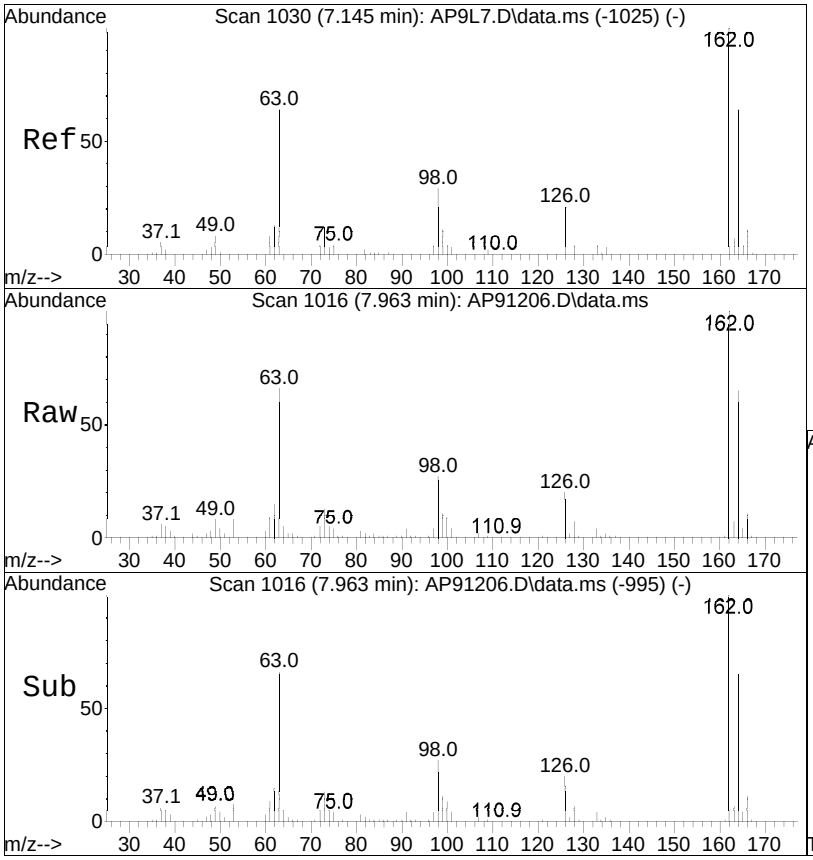


#56
3-Chloroaniline
Concen: 4.42 ug/ml
RT: 7.940 min Scan# 1012
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion: 65 Resp: 18264

Ion	Ratio	Lower	Upper
65	100		
127	284.9	243.2	364.8
129	92.5	78.8	118.2

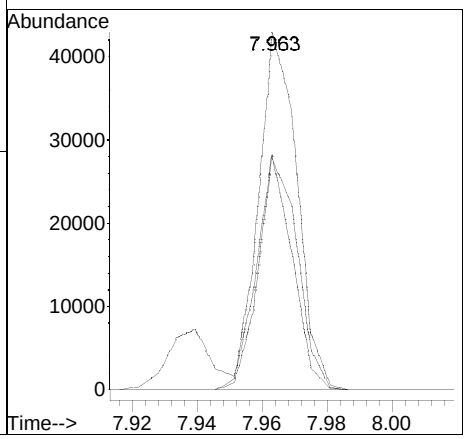


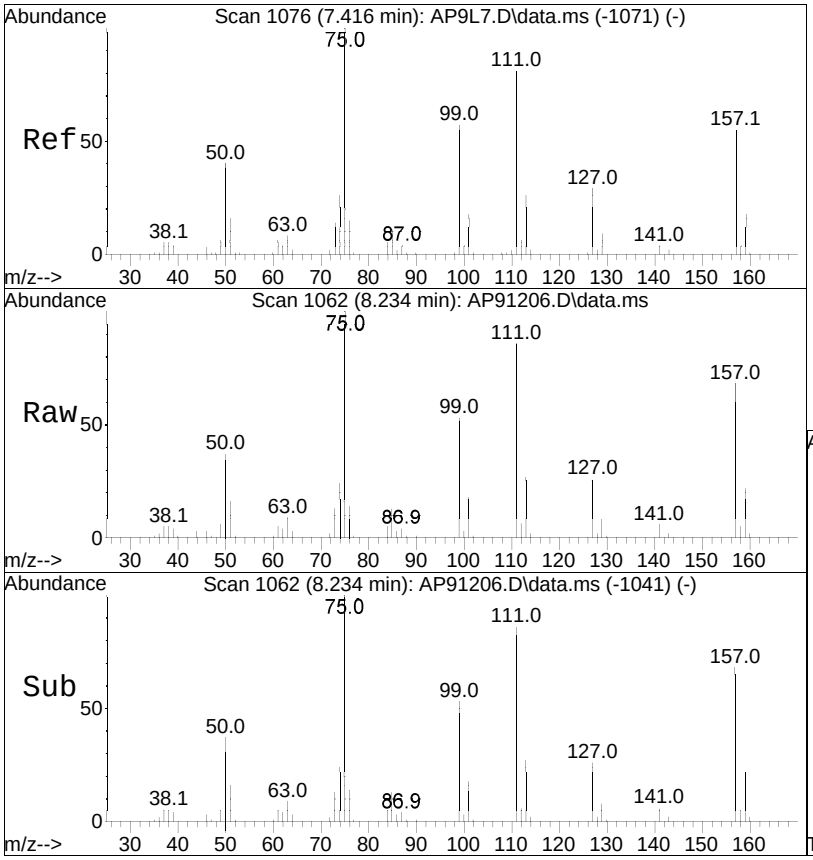


#57
2,6-Dichlorophenol
Concen: 5.04 ug/ml
RT: 7.963 min Scan# 1016
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion:162 Resp: 35190

Ion	Ratio	Lower	Upper
162	100		
164	65.5	51.1	76.7
63	59.4	60.8	91.2#

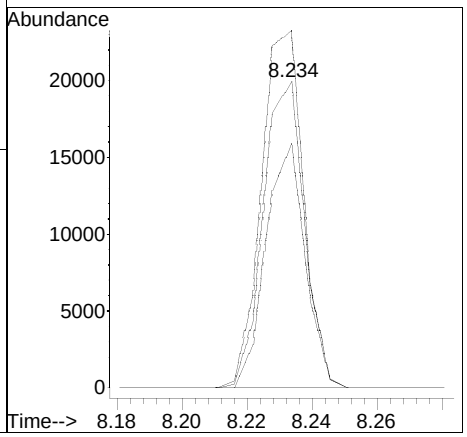


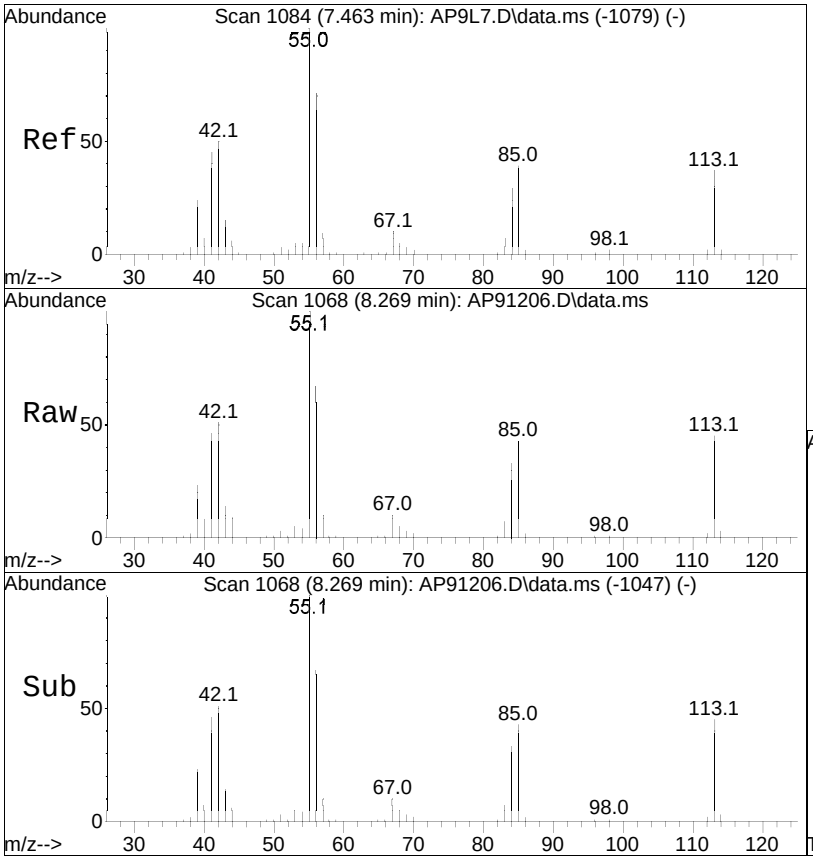


#58
1-chloro-2-nitrobenzene
Concen: 4.65 ug/ml
RT: 8.234 min Scan# 1062
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion:111 Resp: 17458

Ion	Ratio	Lower	Upper
111	100		
157	76.2	0.0	0.0#
75	119.4	28.2	42.2#

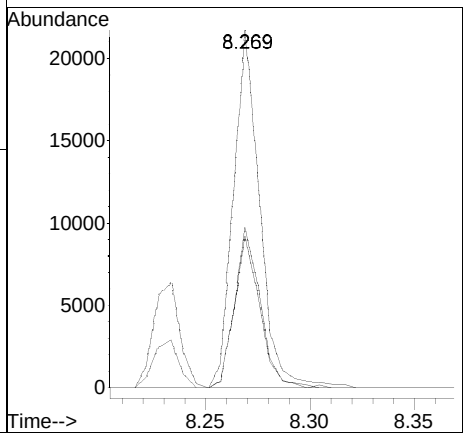


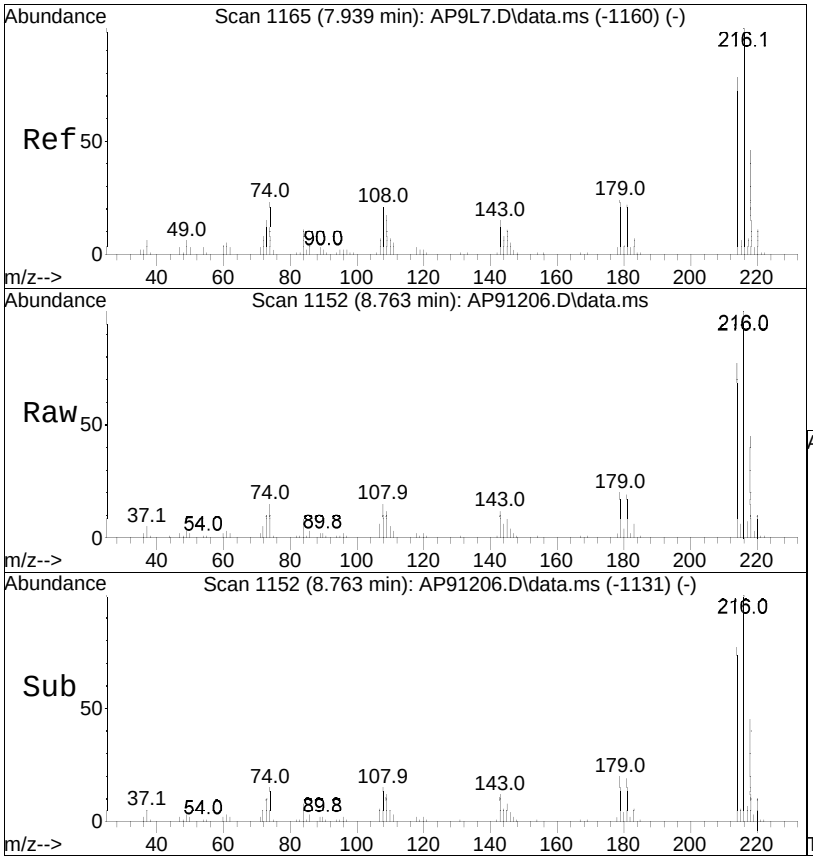


#59
Caprolactam
Concen: 3.70 ug/ml
RT: 8.269 min Scan# 1068
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion: 55 Resp: 18845

Ion	Ratio	Lower	Upper
55	100		
85	41.4	19.8	29.6#
113	43.9	29.6	44.4

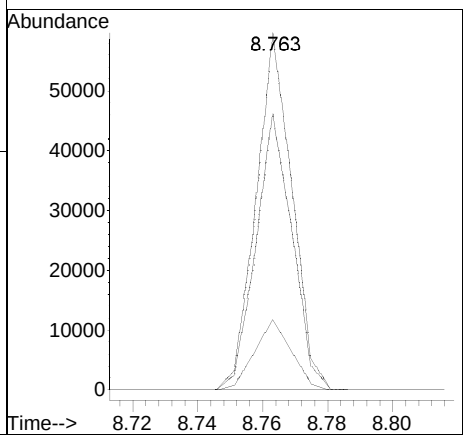


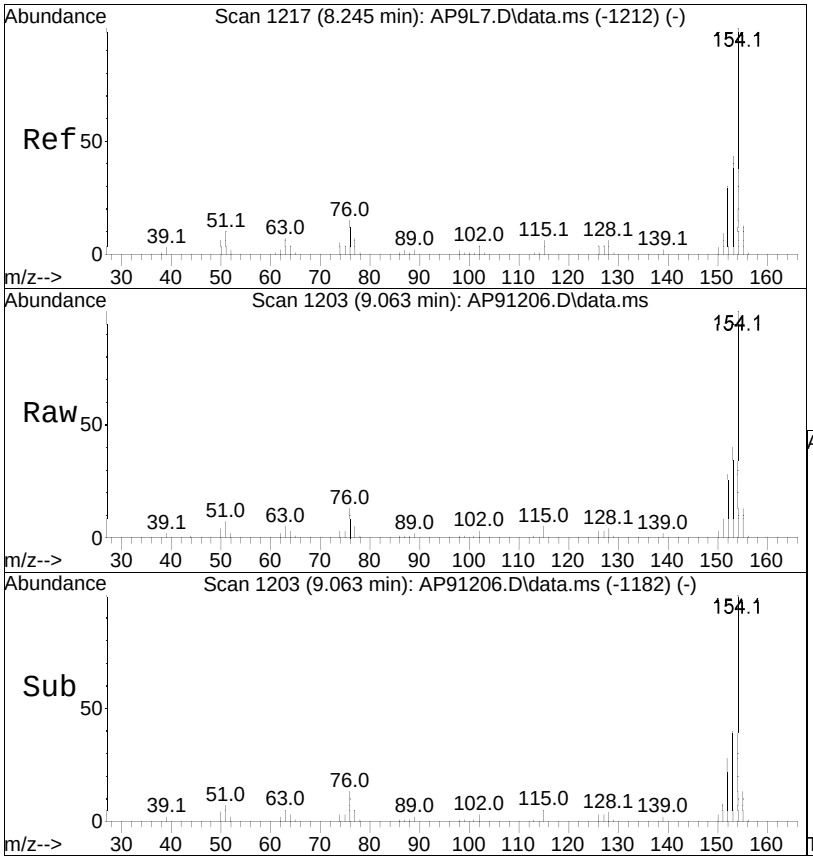


#60
1,2,4,5-Tetrachlorobenzene
Concen: 5.22 ug/ml
RT: 8.763 min Scan# 1152
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion:216 Resp: 45496

Ion	Ratio	Lower	Upper
216	100		
214	77.8	63.7	95.5
179	20.2	19.0	28.6

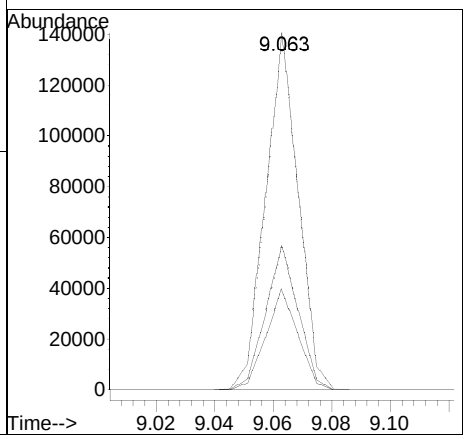


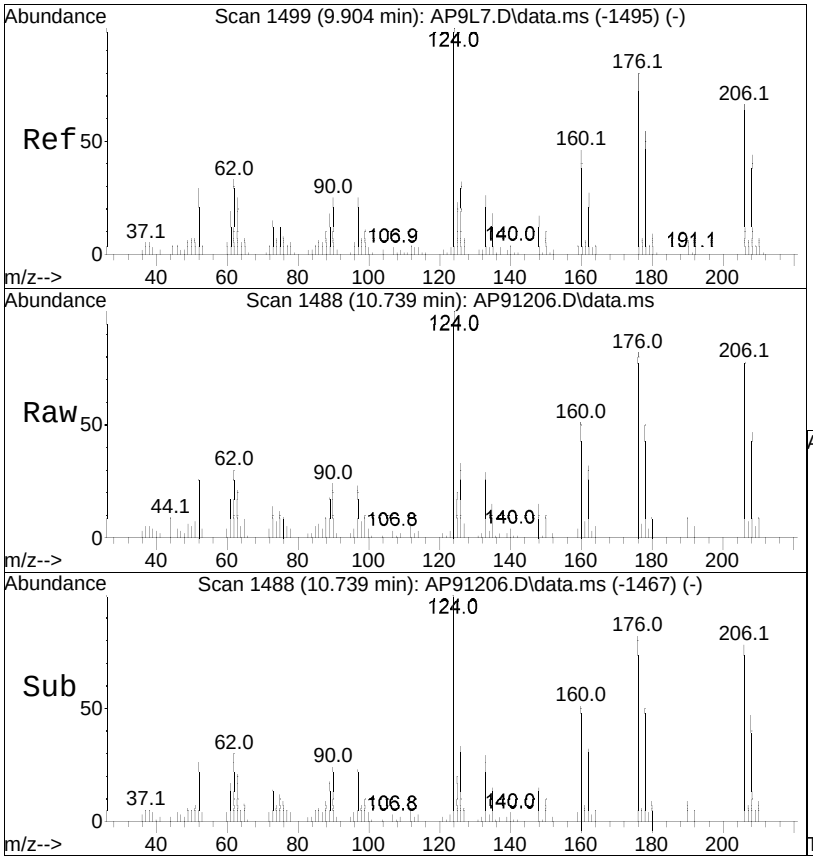


#61
Biphenyl
Concen: 5.04 ug/ml
RT: 9.063 min Scan# 1203
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion:154 Resp: 107823

Ion	Ratio	Lower	Upper
154	100		
153	40.6	32.3	48.5
152	27.9	22.5	33.7

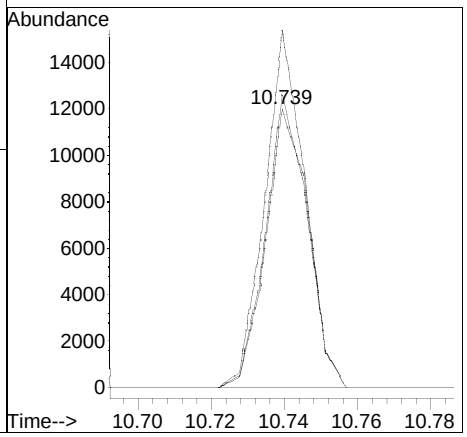


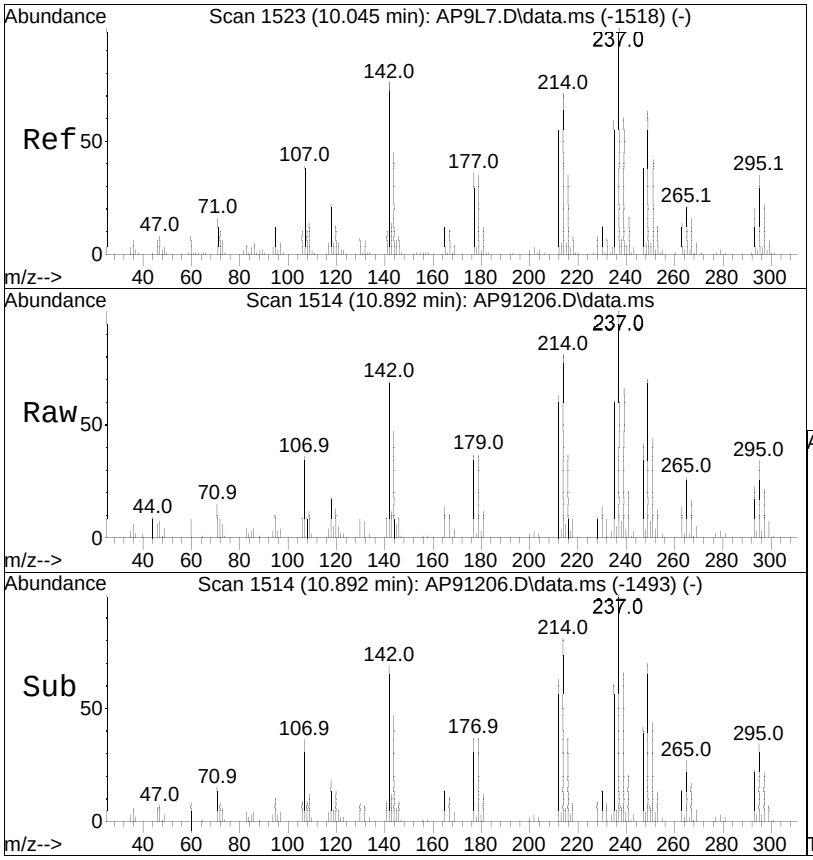


#83
Dichloran
Concen: 4.19 ug/ml
RT: 10.739 min Scan# 1488
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion:206 Resp: 9667

Ion	Ratio	Lower	Upper
206	100		
176	102.2	104.6	157.0#
124	120.6	130.5	195.7#

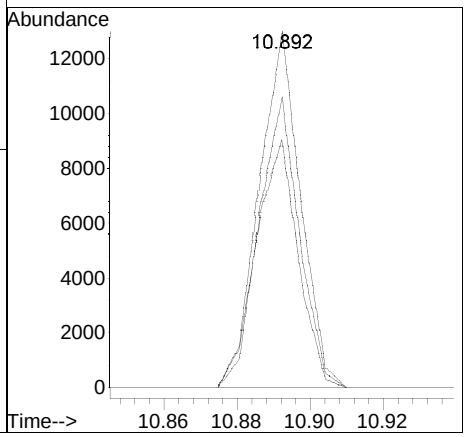


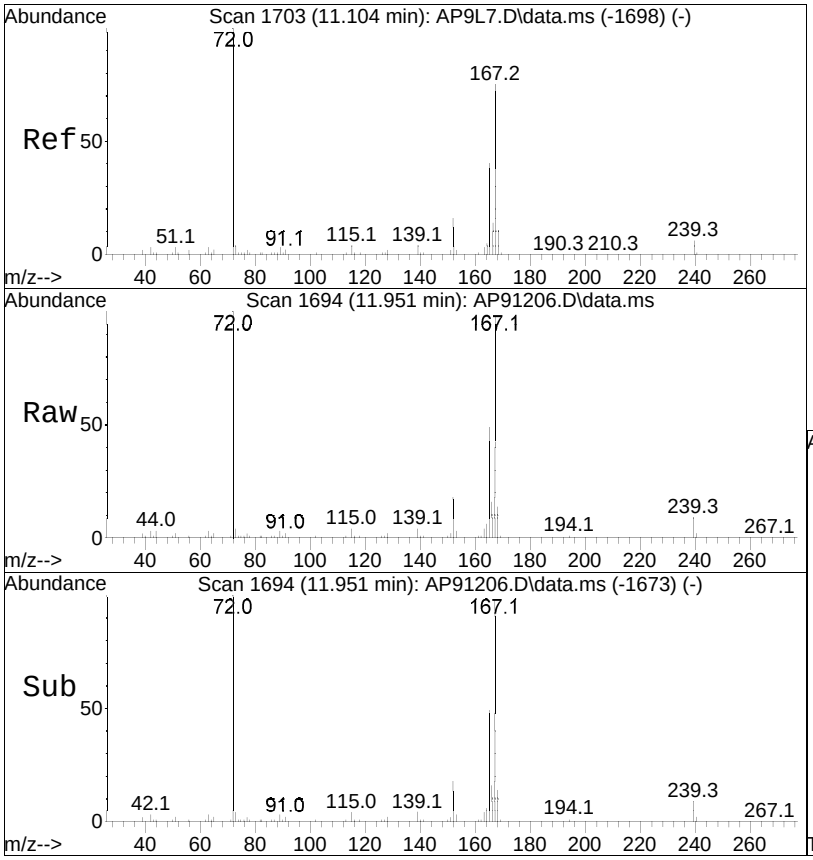


#84
Pentachloronitrobenzene
Concen: 4.32 ug/ml
RT: 10.892 min Scan# 1514
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion:237 Resp: 10208

Ion	Ratio	Lower	Upper
237	100		
142	70.9	77.0	115.4#
214	79.7	58.2	87.4

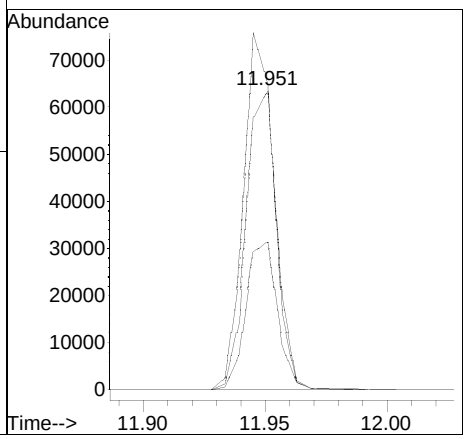




#98
Diphenamid
Concen: 4.27 ug/ml
RT: 11.951 min Scan# 1694
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 6 Dec 2023 7:29 am

Tgt Ion:167 Resp: 56058

Ion	Ratio	Lower	Upper
167	100		
72	116.8	109.7	164.5
165	51.1	41.8	62.6



Manual Integration Report

Data Path	: I:\8270\SV107\231206lvi\	QMethod	: FS231025SV107.m
Data File	: AP91206.D	Operator	: SV107:sz
Date Inj'd	: 12/6/2023 7:29 am	Instrument	: SV107
Sample	: wg1860349-4,32,,AP9 LVI CC	Quant Date	: 12/6/2023 7:50 am

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

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV107\231206lvi\
Data File : ADP1206.D
Acq On : 6 Dec 2023 7:55 am
Operator : SV107:sz
Sample : wg1860349-5,32,,ADP LVI CCV Lot # 10309
Misc : wg1860349,,ical20485
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 06 08:49:19 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 08:49:00 2023
Response via : Initial Calibration

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

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	115	0.00
33	T	n-Decane		1.710	1.469	14.1	100	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	111	0.00
86	T	Atrazine	*	5.000	3.748	25.0#	97	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	105	0.00
100	T	n-Octadecane		0.553	0.407	26.4#	78	0.00
101	T	Parathion	*	5.000	4.017	19.7	91	0.00
102	T	3,3'-Dimethylbenzidine	*	5.000	4.333	13.3	102	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231206lvi\
Data File : ADP1206.D
Acq On : 6 Dec 2023 7:55 am
Operator : SV107:sz
Sample : wg1860349-5,32,,ADP LVI CCV Lot # 10309
Misc : wg1860349,,ical20485
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 06 08:49:19 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 08:49:00 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	6.434	152	32258	4.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	9.610	164	65135	4.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	11.045	188	127858	4.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	6.328	57	59222	4.295	ug/ml#	47
86) Atrazine	10.816	200	21378	3.748	ug/ml	94
100) n-Octadecane	11.022	57	65024	3.679	ug/ml#	1
101) Parathion	11.827	109	9338	4.017	ug/ml#	91
102) 3,3'-Dimethylbenzidine	13.104	212	67535	4.333	ug/ml	100

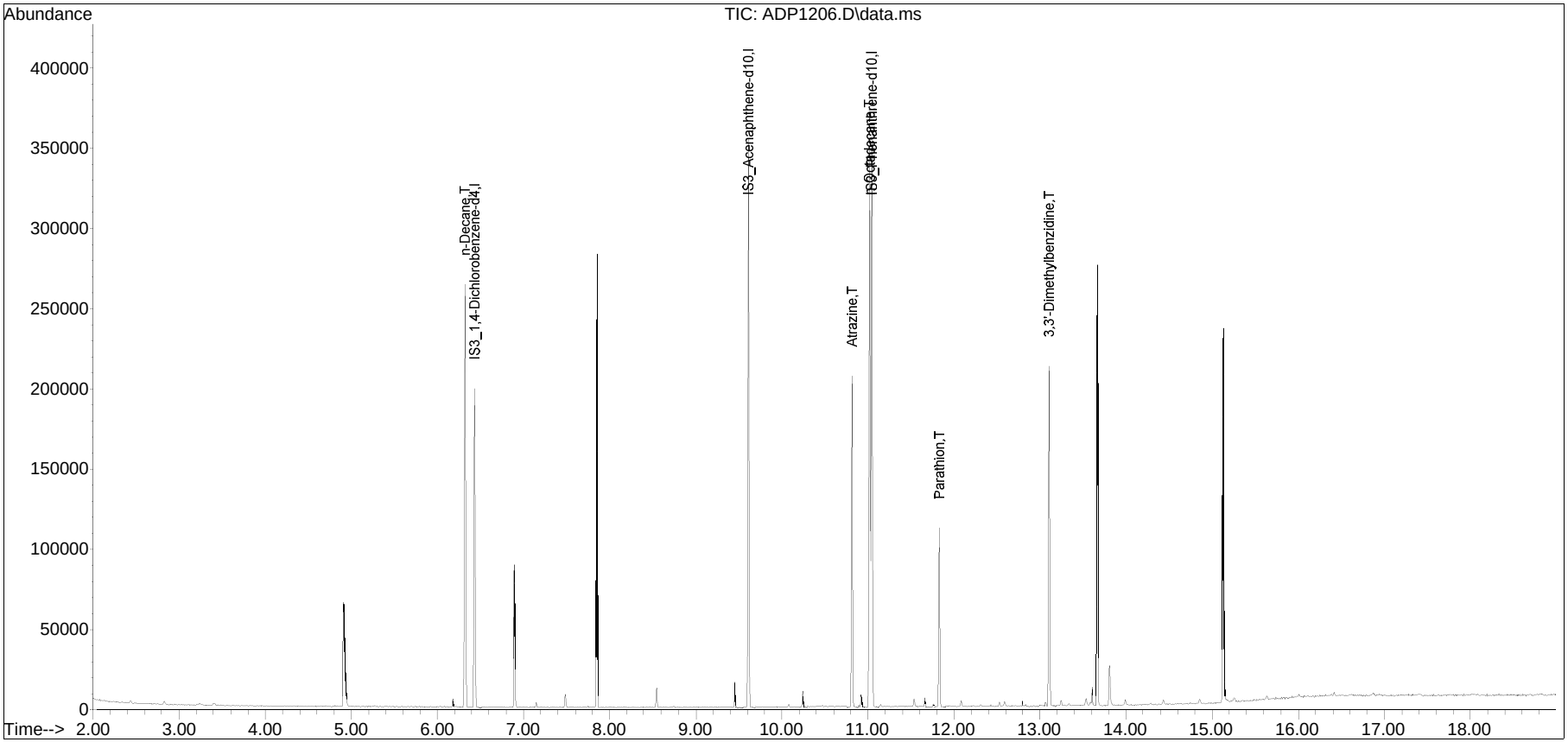
(#) = qualifier out of range (m) = manual integration (+) = signals summed

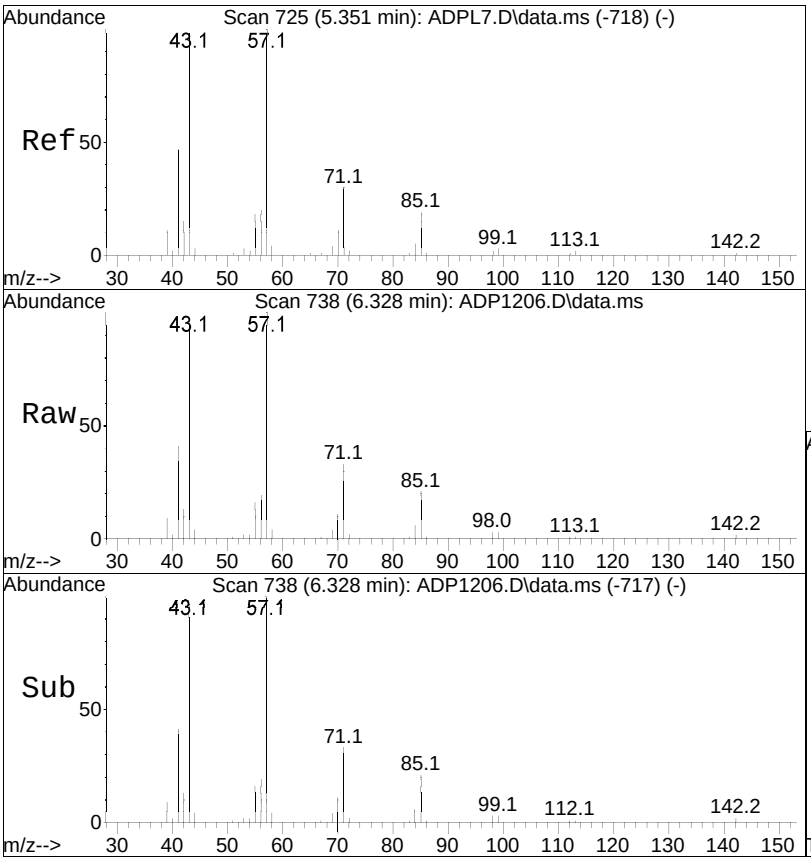
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231206lvi\
Data File : ADP1206.D
Acq On : 6 Dec 2023 7:55 am
Operator : SV107:sz
Sample : wg1860349-5,32,,ADP LVI CCV Lot # 10309
Misc : wg1860349,,ical20485
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 06 08:49:19 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 08:49:00 2023
Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

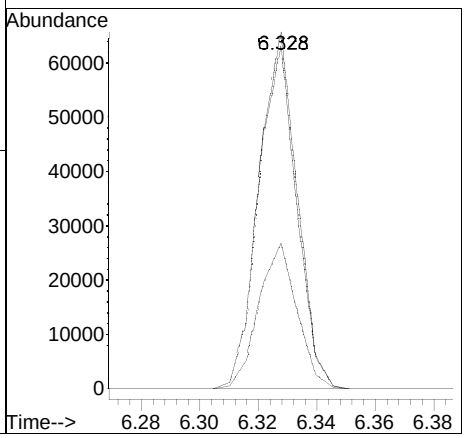


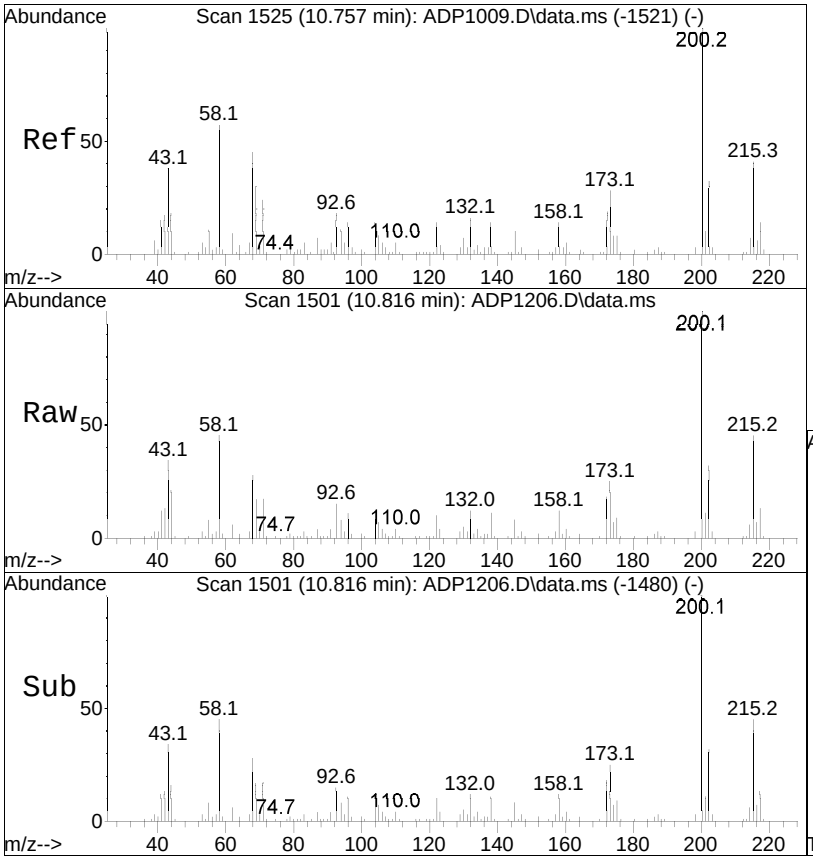


#33
n-Decane
Concen: 4.29 ug/ml
RT: 6.328 min Scan# 738
Delta R.T. 0.000 min
Lab File: ADP1206.D
Acq: 6 Dec 2023 7:55 am

Tgt Ion: 57 Resp: 59222

Ion	Ratio	Lower	Upper
57	100		
43	95.9	0.2	0.2#
41	41.1	0.2	0.2#

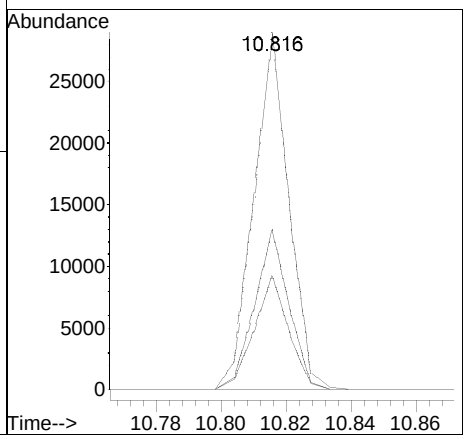


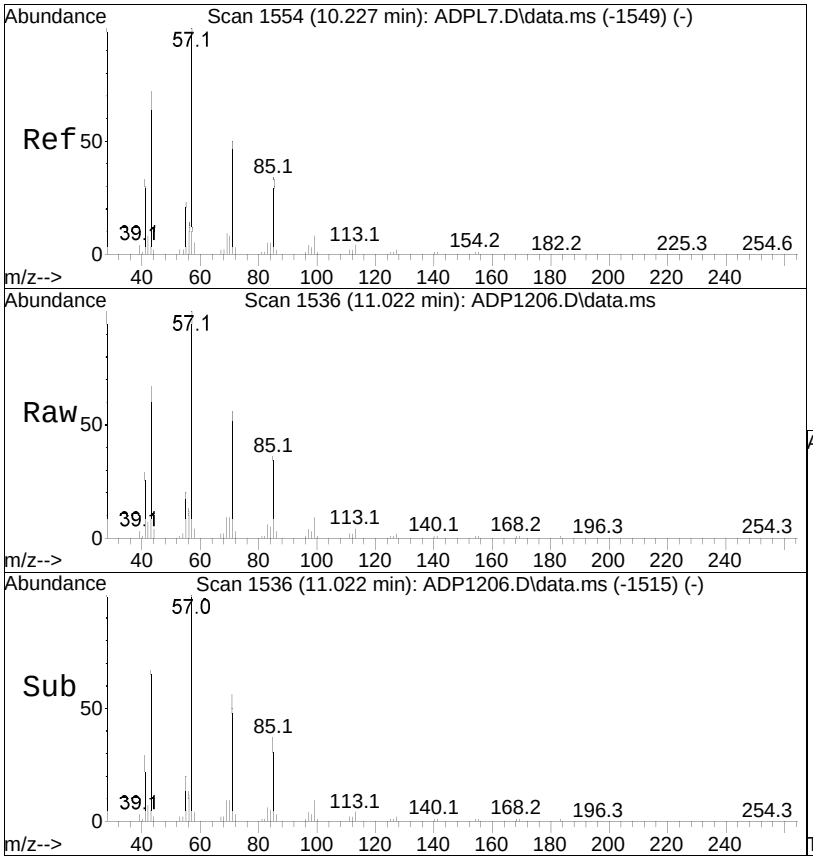


#86
Atrazine
Concen: 3.75 ug/ml
RT: 10.816 min Scan# 1501
Delta R.T. 0.000 min
Lab File: ADP1206.D
Acq: 6 Dec 2023 7:55 am

Tgt Ion:200 Resp: 21378

Ion	Ratio	Lower	Upper
200	100		
202	31.7	25.8	38.6
215	44.0	40.2	60.4

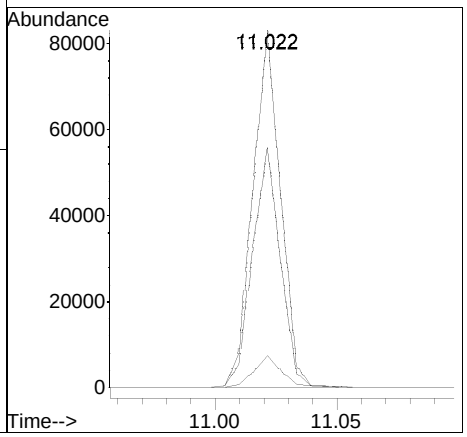


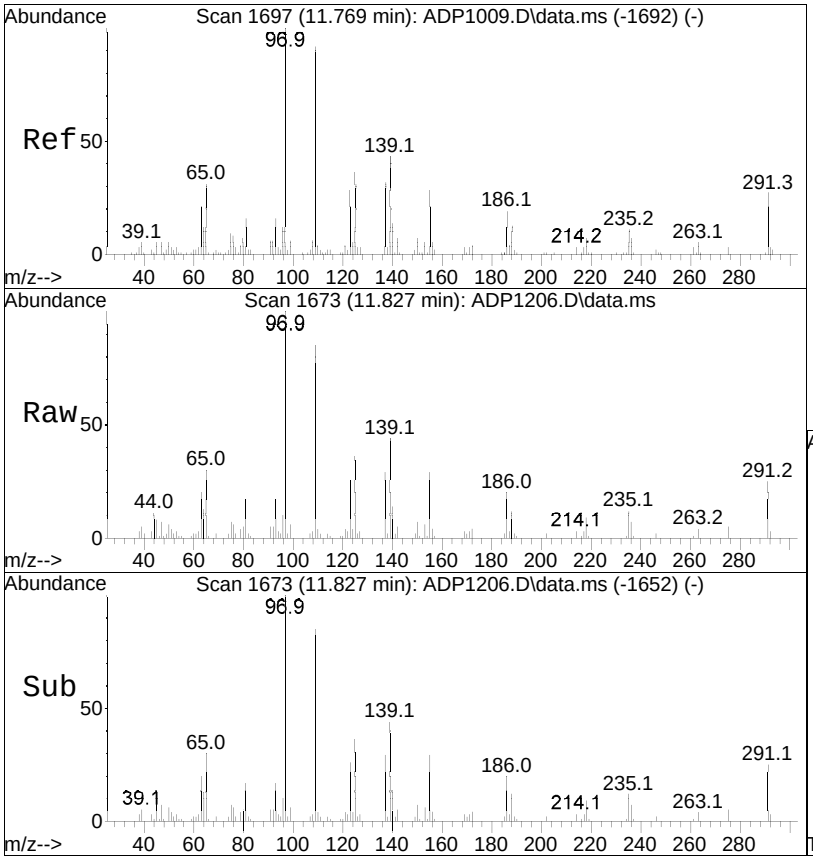


#100
n-Octadecane
Concen: 3.68 ug/ml
RT: 11.022 min Scan# 1536
Delta R.T. 0.000 min
Lab File: ADP1206.D
Acq: 6 Dec 2023 7:55 am

Tgt Ion: 57 Resp: 65024

Ion	Ratio	Lower	Upper
57	100		
43	67.7	9.0	13.6#
70	9.1	0.2	0.2#

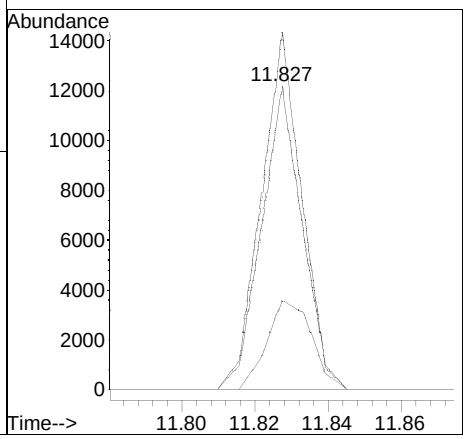


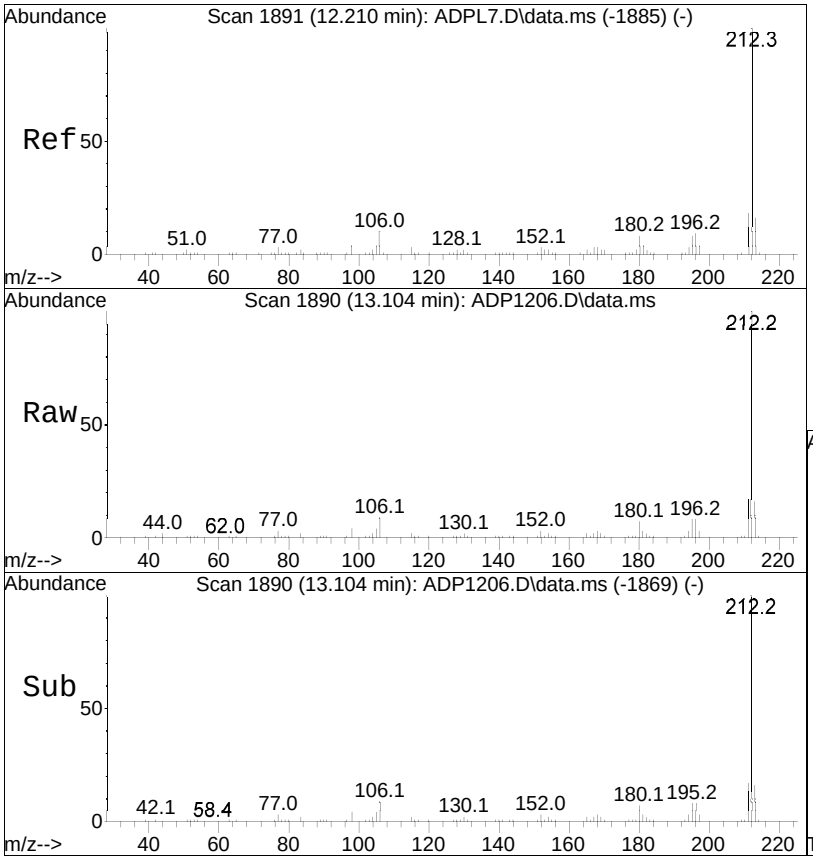


#101
Parathion
Concen: 4.02 ug/ml
RT: 11.827 min Scan# 1673
Delta R.T. 0.000 min
Lab File: ADP1206.D
Acq: 6 Dec 2023 7:55 am

Tgt Ion:109 Resp: 9338

Ion	Ratio	Lower	Upper
109	100		
97	116.4	87.4	131.2
291	32.4	34.2	51.2#

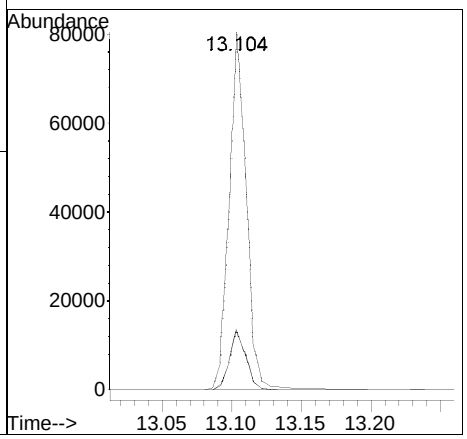




#102
3,3'-Dimethylbenzidine
Concen: 4.33 ug/ml
RT: 13.104 min Scan# 1890
Delta R.T. 0.000 min
Lab File: ADP1206.D
Acq: 6 Dec 2023 7:55 am

Tgt Ion:212 Resp: 67535

Ion	Ratio	Lower	Upper
212	100		
211	16.1	12.9	19.3
213	16.2	13.2	19.8



Manual Integration Report

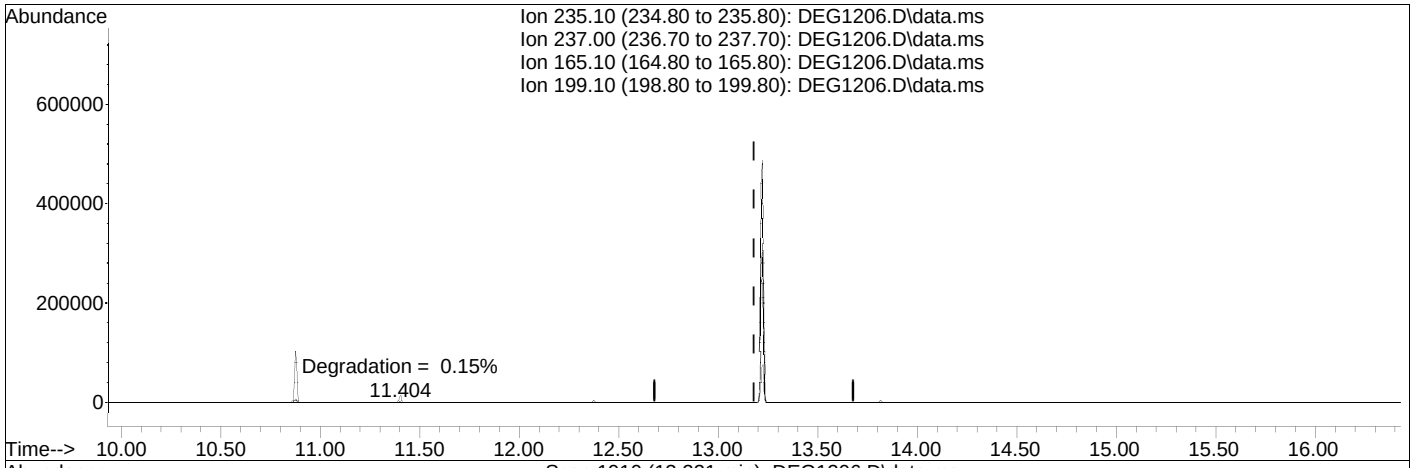
Data Path	: I:\8270\SV107\231206lvi\	QMethod	: FS231025SV107.m
Data File	: ADP1206.D	Operator	: SV107:sz
Date Inj'd	: 12/6/2023 7:55 am	Instrument	: SV107
Sample	: wg1860349-5,32,,ADP LVI CC	Quant Date	: 12/6/2023 8:49 am

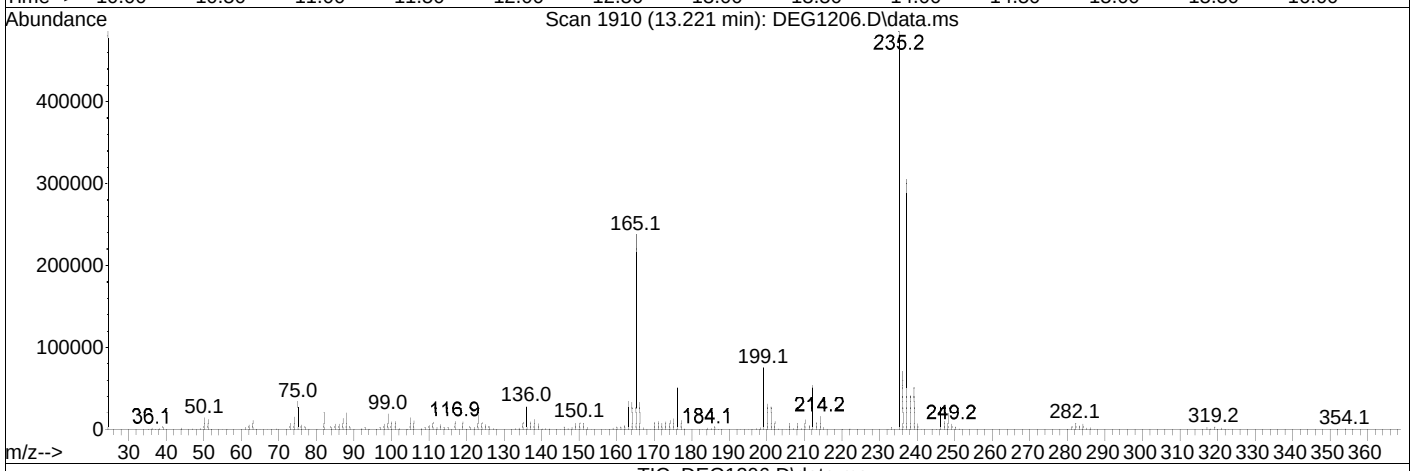
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231206lvi\
Data File : DEG1206.D
Acq On : 6 Dec 2023 6:38 am
Operator : SV107:sz
Sample : wg1860349-2,32,,SV107 Degdftp
Misc : wg1860349,,ical20485
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 06 06:59:37 2023
Quant Method : I:\8270\SV107\231206lvi\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 03 20:14:22 2023
Response via : Initial Calibration





TIC: DEG1206.D\data.ms

(6) DDT (T)

13.221min (+ 0.041) 74.46

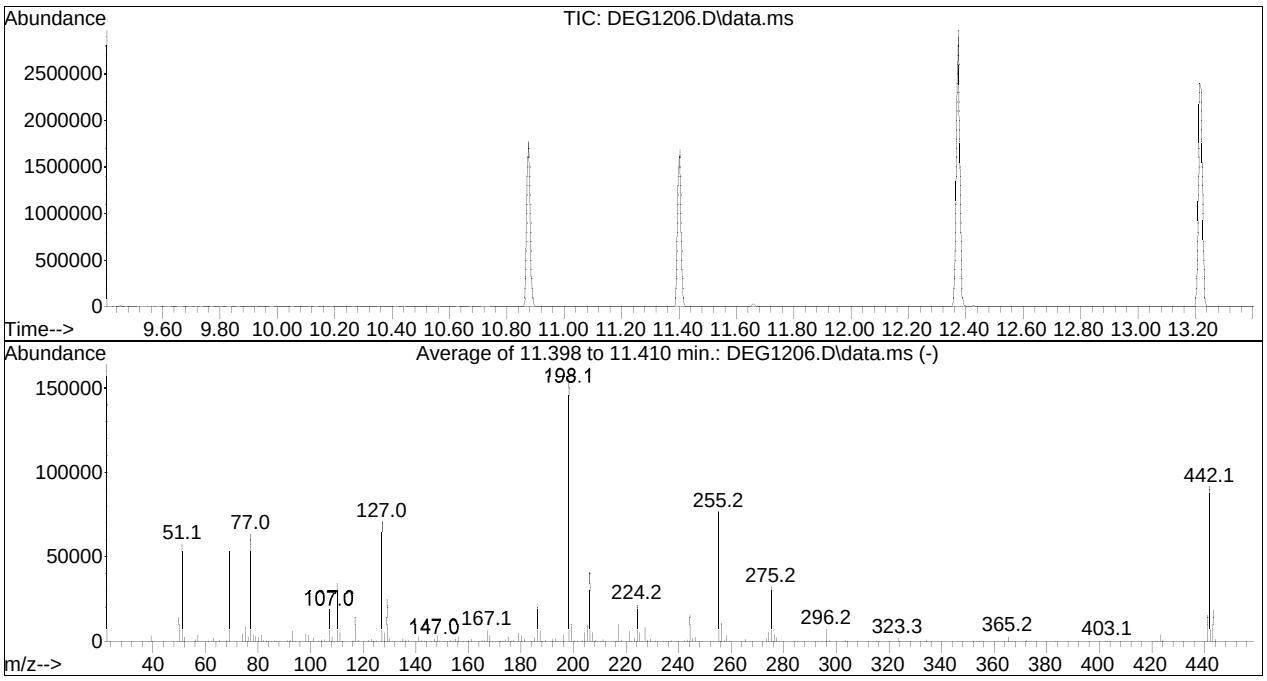
response 453888

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.70	62.74
165.10	52.70	51.88
199.10	15.10	15.73

Data Path : I:\8270\SV107\231206lvi\
Data File : DEG1206.D
Acq On : 6 Dec 2023 6:38 am
Operator : SV107:gmr
Sample : WG1860349-1,32,,SV107 Degdftp
Misc : WG1860349,,ical20485
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Dec 06 07:50:06 2023



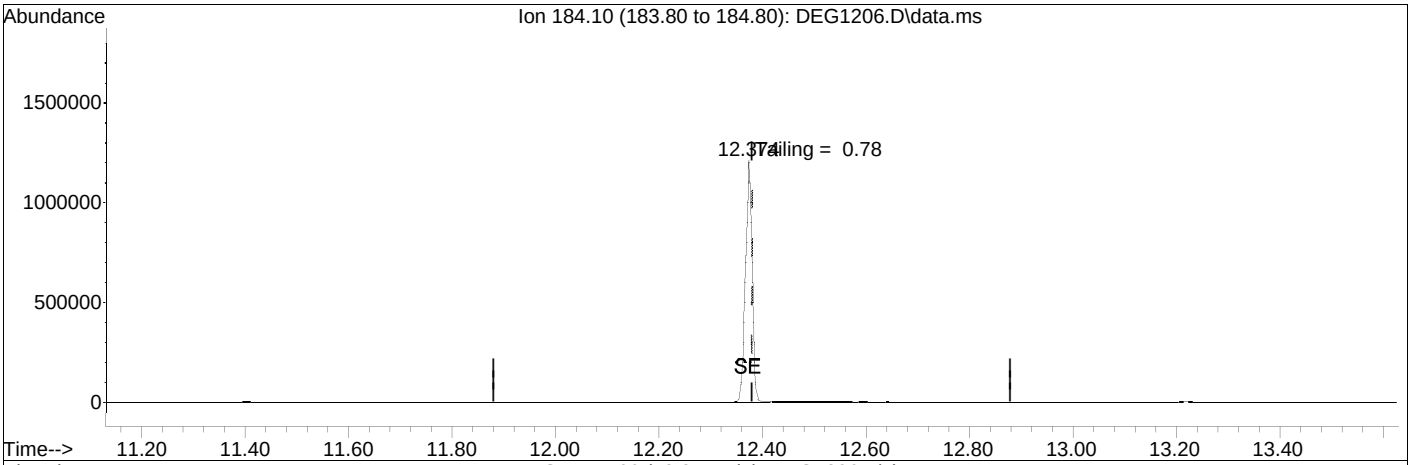
Spectrum Information: Average of 11.398 to 11.410 min.

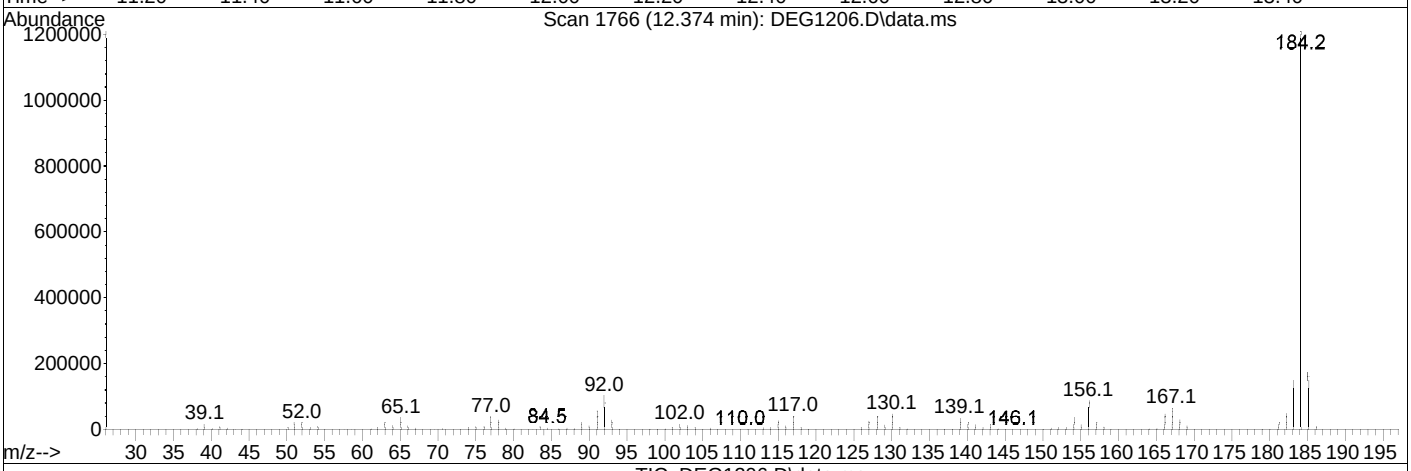
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.9	57578	PASS
68	69	0.00	2	1.8	960	PASS
69	69	100	100	100.0	53508	PASS
70	69	0.00	2	0.5	278	PASS
127	198	10	80	45.2	70597	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	156072	PASS
199	198	5	9	6.7	10425	PASS
275	198	10	60	20.8	32403	PASS
365	198	1	100	2.0	3047	PASS
441	442	0.01	24	17.0	15551	PASS
442	198	50	100	58.5	91251	PASS
443	442	15	24	19.9	18175	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231206lvi\
Data File : DEG1206.D
Acq On : 6 Dec 2023 6:38 am
Operator : SV107:sz
Sample : wg1860349-6,32,,SV107 Degdftp
Misc : wg1860349,,ical20485
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 06 06:59:37 2023
Quant Method : I:\8270\SV107\231206lvi\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 03 20:14:22 2023
Response via : Initial Calibration





TIC: DEG1206.D\data.ms

(3) Benzidine (T)

12.374min (-0.006) 100.98

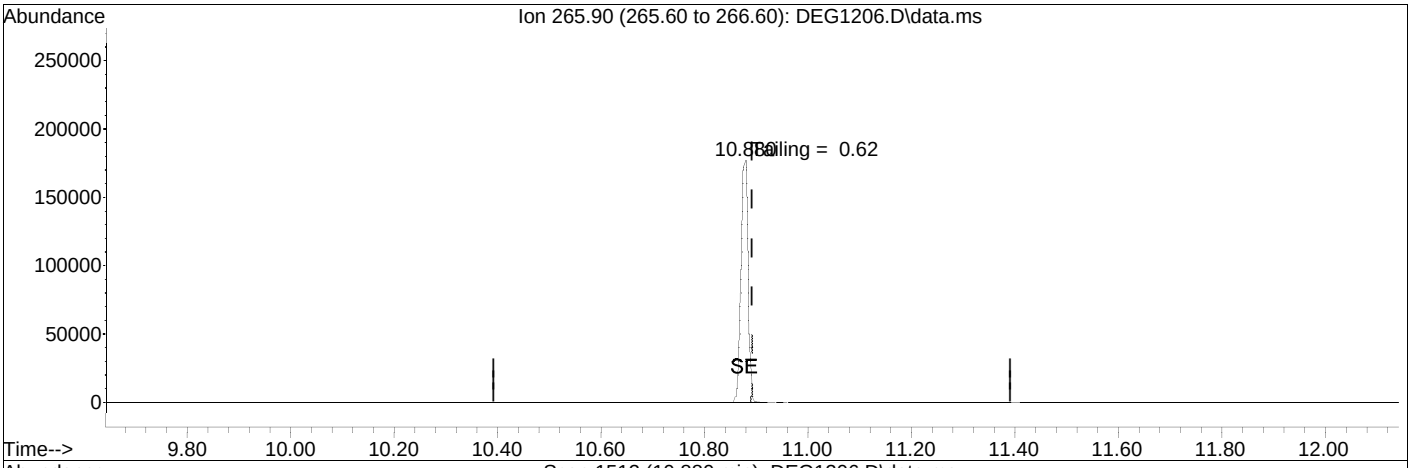
response 1028022

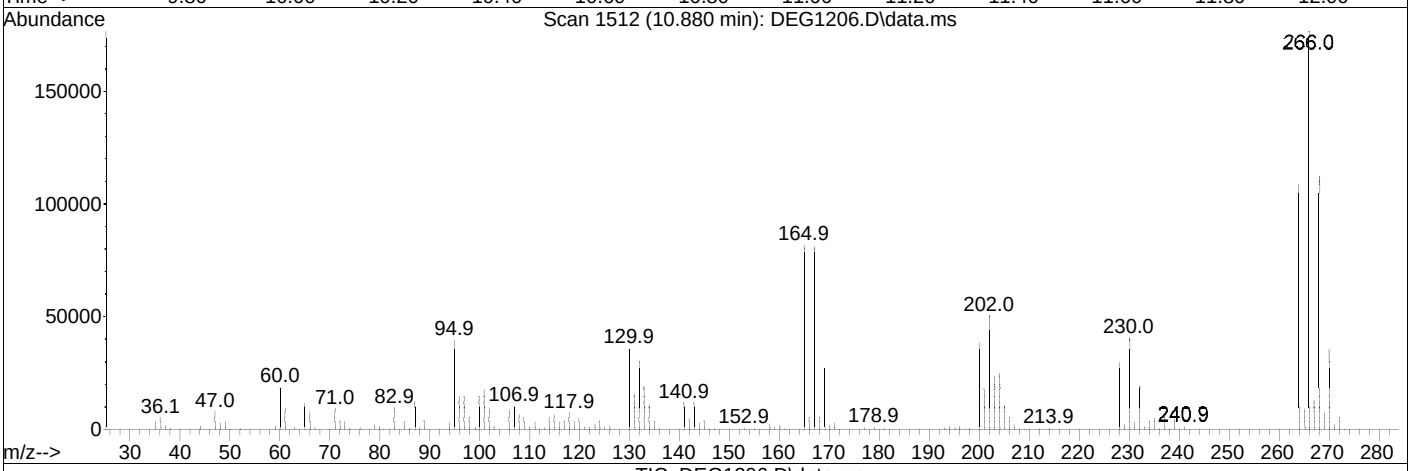
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV107\231206lvi\
Data File : DEG1206.D
Acq On : 6 Dec 2023 6:38 am
Operator : SV107:sz
Sample : wg1860349-7,32,,SV107 Degdftp
Misc : wg1860349,,ical20485
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 06 06:59:37 2023
Quant Method : I:\8270\SV107\231206lvi\DftppSV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 03 20:14:22 2023
Response via : Initial Calibration





TIC: DEG1206.D\data.ms

(1) Pentachlorophenol (T)

10.880min (-0.012) 76.43

response 160521

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231204nlvi\
Data File : 859049-1.D
Acq On : 4 Dec 2023 11:19 pm
Operator : SV107:sz
Sample : WG1859049-1,32,,ASK
Misc : WG1859679,WG1859049,ical20485
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 17:02:25 2023
Quant Method : I:\8270\sv107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 09:42:59 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\231204nlvi\ABN1204n.D
: 2 - I:\8270\sv107\231204nlvi\ADP1204n.D
: 3 - I:\8270\sv107\231204nlvi\AP91204n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.457	152	32925	4.000	ug/ml	0.00
Standard Area 1 = 27149			Recovery = 121.28%			
27) IS2_1,4-Dichlorobenzen...	6.457	152	32925	4.000	ug/ml	0.00
Standard Area 3 = 28381			Recovery = 116.01%			
32) IS3_1,4-Dichlorobenzen...	6.457	152	32925	4.000	ug/ml	0.00
Standard Area 2 = 26791			Recovery = 122.90%			
34) IS1_Naphthalene-d8	7.881	136	124790	4.000	ug/ml	0.00
Standard Area 1 = 99405			Recovery = 125.54%			
54) IS2_Naphthalene-d8	7.881	136	124790	4.000	ug/ml	0.00
Standard Area 3 = 108091			Recovery = 115.45%			
62) IS1_Acenaphthene-d10	9.634	164	71457	4.000	ug/ml	0.00
Standard Area 1 = 58166			Recovery = 122.85%			
82) IS2_Acenaphthene-d10	9.634	164	71457	4.000	ug/ml	0.00
Standard Area 3 = 61634			Recovery = 115.94%			
85) IS3_Acenaphthene-d10	9.634	164	71457	4.000	ug/ml	0.00
Standard Area 2 = 56085			Recovery = 127.41%			
87) IS1_Phenanthrene-d10	11.069	188	154184	4.000	ug/ml	0.00
Standard Area 1 = 124583			Recovery = 123.76%			
99) IS3_Phenanthrene-d10	11.069	188	154184	4.000	ug/ml	0.00
Standard Area 2 = 125576			Recovery = 122.78%			
103) IS1_Chrysene-d12	13.692	240	124949	4.000	ug/ml	0.00
Standard Area 1 = 118560			Recovery = 105.39%			
112) IS1_Perylene-d12	15.151	264	121284	4.000	ug/ml	0.00
Standard Area 1 = 119507			Recovery = 101.49%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.563	112	22500	2.532	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 50.64%			
7) Phenol-d6	6.087	99	28701	2.565	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 51.30%			
19) Nitrobenzene-d5	7.110	82	18790	1.772	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 70.88%			
45) 2-Fluorobiphenyl	8.998	172	48359	1.902	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 76.08%			
78) 2,4,6-Tribromophenol	10.398	330	6661	2.514	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 50.28%			

Data Path : I:\8270\SV107\231204nlvi\
Data File : 859049-1.D
Acq On : 4 Dec 2023 11:19 pm
Operator : SV107:sz
Sample : WG1859049-1,32,,ASK
Misc : WG1859679,WG1859049,ical20485
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 17:02:25 2023
Quant Method : I:\8270\sv107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 09:42:59 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\231204nlvi\ABN1204n.D
: 2 - I:\8270\sv107\231204nlvi\ADP1204n.D
: 3 - I:\8270\sv107\231204nlvi\AP91204n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.645	244	60893	1.928	ug/ml	0.00

Spiked Amount 2.500 Range 30 - 130 Recovery = 77.12%

Target Compounds			Qvalue
6) 2-Chlorophenol	0.000	0	N.D.
8) Phenol	0.000	0	N.D.
9) Bis(2-chloroethyl)ether	0.000	0	N.D.
14) Bis(2-chloroisopropyl)...	0.000	0	N.D.
15) 2-Methylphenol	0.000	0	N.D.
17) n-Nitrosodi-n-propylamine	0.000	0	N.D.
18) 3-Methylphenol/4-Methy...	0.000	0	N.D.
20) Nitrobenzene	0.000	0	N.D.
21) Isophorone	0.000	0	N.D.
22) 2-Nitrophenol	0.000	0	N.D.
23) 2,4-Dimethylphenol	0.000	0	N.D.
24) Bis(2-chloroethoxy)met...	0.000	0	N.D.
25) 2,4-Dichlorophenol	0.000	0	N.D.
28) Benzaldehyde	0.000	0	N.D.
29) Acetophenone	0.000	0	N.D.
37) 4-Chloroaniline	0.000	0	N.D.
39) p-Chloro-m-cresol	0.000	0	N.D.
42) Hexachlorocyclopentadiene	0.000	0	N.D.
43) 2,4,6-Trichlorophenol	0.000	0	N.D.
44) 2,4,5-Trichlorophenol	0.000	0	N.D.
47) 2-Nitroaniline	0.000	0	N.D.
50) Dimethyl phthalate	0.000	0	N.D.
52) 2,6-Dinitrotoluene	0.000	0	N.D.
59) Caprolactam	0.000	0	N.D.
60) 1,2,4,5-Tetrachloroben...	0.000	0	N.D.
61) Biphenyl	0.000	0	N.D.
63) 3-Nitroaniline	0.000	0	N.D.
65) 2,4-Dinitrophenol	0.000	0	N.D.
66) Dibenzofuran	0.000	0	N.D.
67) 2,4-Dinitrotoluene	0.000	0	N.D.
68) 4-Nitrophenol	0.000	0	N.D.
70) 2,3,4,6-Tetrachlorophenol	0.000	0	N.D.
71) Diethyl phthalate	0.000	0	N.D.

Data Path : I:\8270\SV107\231204nlvi\
Data File : 859049-1.D
Acq On : 4 Dec 2023 11:19 pm
Operator : SV107:sz
Sample : WG1859049-1,32,,ASK
Misc : WG1859679,WG1859049,ical20485
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 17:02:25 2023
Quant Method : I:\8270\sv107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 09:42:59 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\231204nlvi\ABN1204n.D
: 2 - I:\8270\sv107\231204nlvi\ADP1204n.D
: 3 - I:\8270\sv107\231204nlvi\AP91204n.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74)	4-Nitroaniline	0.000		0	N.D.		
75)	4,6-Dinitro-o-cresol	0.000		0	N.D.		
76)	NDPA/DPA	0.000		0	N.D.		
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
90)	Carbazole	0.000		0	N.D.		
91)	Di-n-butylphthalate	0.000		0	N.D.		
96)	Butyl benzyl phthalate	0.000		0	N.D.		
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
107)	Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108)	Di-n-octylphthalate	0.000		0	N.D.	d	

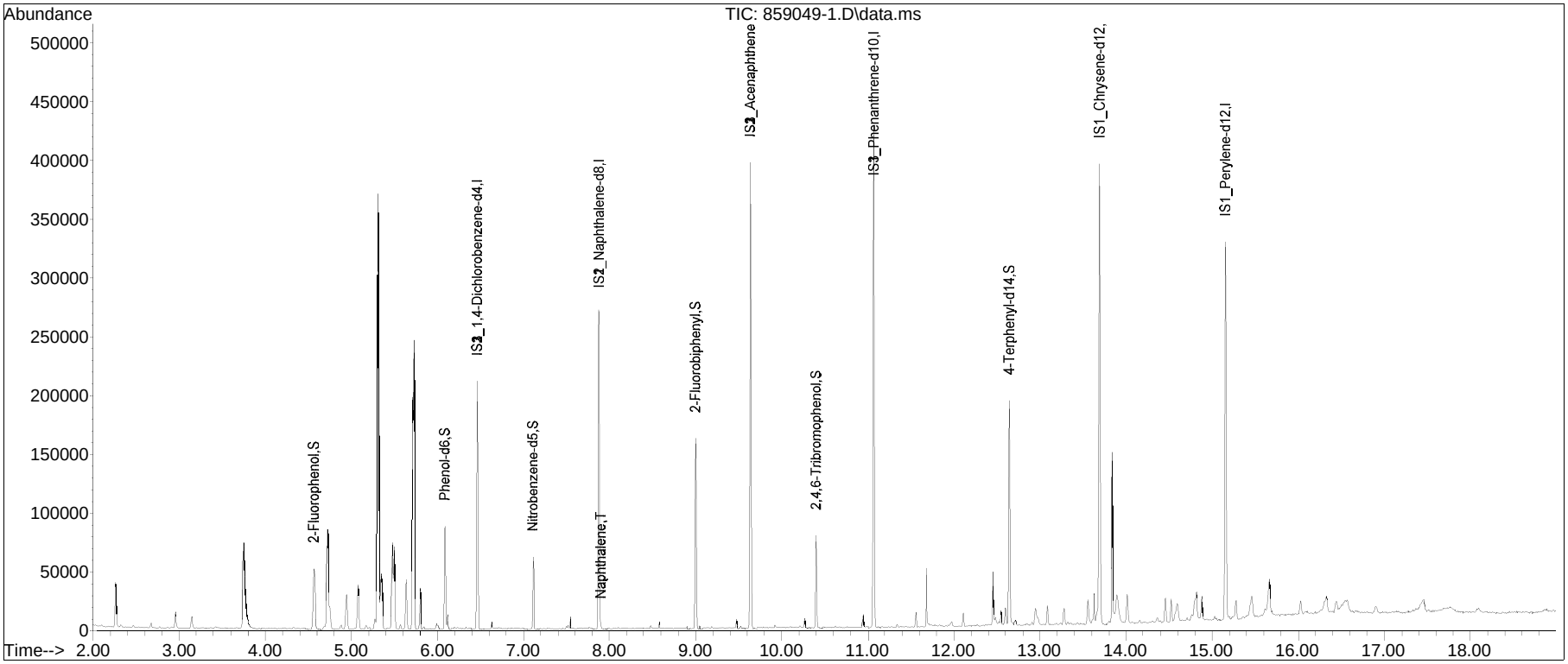
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231204nlvi\
Data File : 859049-1.D
Acq On : 4 Dec 2023 11:19 pm
Operator : SV107:sz
Sample : WG1859049-1,32,,ASK
Misc : WG1859679,WG1859049,ical20485
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 17:02:25 2023
Quant Method : I:\8270\sv107\231204nlvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 09:42:59 2023
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAnlvi\AP91204n.D•



Manual Integration Report

Data Path	: I:\8270\SV107\231204nlvi\	QMethod	: FS231025SV107.m
Data File	: 859049-1.D	Operator	: SV107:sz
Date Inj'd	: 12/4/2023 11:19 pm	Instrument	: SV107
Sample	: WG1859049-1,32,,ASK	Quant Date	: 12/5/2023 9:43 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231206lvi\
Data File : 59049-2.D
Acq On : 6 Dec 2023 5:30 pm
Operator : SV107:sz
Sample : WG1859049-2,32,,rv
Misc : WG1860349,WG1859049,ical20485
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 06 17:51:37 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 17:50:38 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231206lvi\ABN1206.D
: 2 - I:\8270\SV107\231206lvi\ADP1206.D
: 3 - I:\8270\SV107\231206lvi\AP91206.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.434	152	26866	4.000	ug/ml	0.00
Standard Area 1 = 27238			Recovery = 98.63%			
27) IS2_1,4-Dichlorobenzen...	6.434	152	26866	4.000	ug/ml	0.00
Standard Area 3 = 28172			Recovery = 95.36%			
32) IS3_1,4-Dichlorobenzen...	6.434	152	26866	4.000	ug/ml	0.00
Standard Area 2 = 32258			Recovery = 83.28%			
34) IS1_Naphthalene-d8	7.857	136	100956	4.000	ug/ml	0.00
Standard Area 1 = 101480			Recovery = 99.48%			
54) IS2_Naphthalene-d8	7.857	136	100956	4.000	ug/ml	0.00
Standard Area 3 = 105283			Recovery = 95.89%			
62) IS1_Acenaphthene-d10	9.610	164	59344	4.000	ug/ml	0.00
Standard Area 1 = 59826			Recovery = 99.19%			
82) IS2_Acenaphthene-d10	9.610	164	59344	4.000	ug/ml	0.00
Standard Area 3 = 58558			Recovery = 101.34%			
85) IS3_Acenaphthene-d10	9.610	164	59344	4.000	ug/ml	0.00
Standard Area 2 = 65135			Recovery = 91.11%			
87) IS1_Phenanthrene-d10	11.045	188	120371	4.000	ug/ml	0.00
Standard Area 1 = 118224			Recovery = 101.82%			
99) IS3_Phenanthrene-d10	11.045	188	120371	4.000	ug/ml	0.00
Standard Area 2 = 127858			Recovery = 94.14%			
103) IS1_Chrysene-d12	13.674	240	92523	4.000	ug/ml	0.00
Standard Area 1 = 99775			Recovery = 92.73%			
112) IS1_Perylene-d12	15.133	264	95807	4.000	ug/ml	0.00
Standard Area 1 = 100806			Recovery = 95.04%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.534	112	22053	3.041	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 60.82%			
7) Phenol-d6	6.069	99	24024	2.631	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 52.62%			
19) Nitrobenzene-d5	7.087	82	14180	1.639	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 65.56%			
45) 2-Fluorobiphenyl	8.975	172	33847	1.645	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 65.80%			
78) 2,4,6-Tribromophenol	10.380	330	7056	3.138	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 62.76%			

Data Path : I:\8270\SV107\231206lvi\
Data File : 59049-2.D
Acq On : 6 Dec 2023 5:30 pm
Operator : SV107:sz
Sample : WG1859049-2,32,,rv
Misc : WG1860349,WG1859049,ical20485
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 06 17:51:37 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 17:50:38 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231206lvi\ABN1206.D
: 2 - I:\8270\SV107\231206lvi\ADP1206.D
: 3 - I:\8270\SV107\231206lvi\AP91206.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.622	244	40132	1.627	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 65.08%			
Target Compounds						Qvalue
6) 2-Chlorophenol	6.175	128	26098	3.260	ug/ml	95
8) Phenol	6.081	94	26345	2.690	ug/ml	94
9) Bis(2-chloroethyl)ether	6.157	93	25586	3.151	ug/ml#	80
14) Bis(2-chloroisopropyl)...	6.822	45	44134	2.684	ug/ml#	66
15) 2-Methylphenol	6.816	108	22178	3.179	ug/ml	99
17) n-Nitrosodi-n-propylamine	6.963	70	19394	3.229	ug/ml#	92
18) 3-Methylphenol/4-Methy...	6.998	108	24134	3.215	ug/ml	98
20) Nitrobenzene	7.110	77	28015	3.149	ug/ml	99
21) Isophorone	7.387	82	50369	3.229	ug/ml	96
22) 2-Nitrophenol	7.469	139	13344	3.259	ug/ml	91
23) 2,4-Dimethylphenol	7.569	107	19175	2.369	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.657	93	33621	3.122	ug/ml#	97
25) 2,4-Dichlorophenol	7.734	162	24427	3.371	ug/ml	96
28) Benzaldehyde	5.863	105	21632	3.467	ug/ml	95
29) Acetophenone	6.934	105	38767	3.408	ug/ml#	83
37) 4-Chloroaniline	7.963	65	6629	1.911	ug/ml	98
39) p-Chloro-m-cresol	8.486	107	23128	3.286	ug/ml	99
42) Hexachlorocyclopentadiene	8.769	237	10860	1.932	ug/ml	98
43) 2,4,6-Trichlorophenol	8.892	196	19161	3.607	ug/ml	98
44) 2,4,5-Trichlorophenol	8.916	196	19964	3.463	ug/ml	98
47) 2-Nitroaniline	9.181	138	16118	3.303	ug/ml	92
50) Dimethyl phthalate	9.386	163	63619	3.096	ug/ml#	98
52) 2,6-Dinitrotoluene	9.428	165	12970	3.077	ug/ml#	80
59) Caprolactam	8.275	55	5610	1.150	ug/ml#	80
60) 1,2,4,5-Tetrachloroben...	8.763	216	29064	3.479	ug/ml	97
61) Biphenyl	9.063	154	70192	3.419	ug/ml	99
63) 3-Nitroaniline	9.586	138	12271	2.706	ug/ml	97
65) 2,4-Dinitrophenol	9.686	184	2540	2.088	ug/ml#	85
66) Dibenzofuran	9.816	168	82841	3.339	ug/ml	94
67) 2,4-Dinitrotoluene	9.816	165	17422	2.970	ug/ml	95
68) 4-Nitrophenol	9.775	65	10131	2.216	ug/ml	90
70) 2,3,4,6-Tetrachlorophenol	9.945	232	16240	3.338	ug/ml	98
71) Diethyl phthalate	10.081	149	62557	3.152	ug/ml	98

Data Path : I:\8270\SV107\231206lvi\
Data File : 59049-2.D
Acq On : 6 Dec 2023 5:30 pm
Operator : SV107:sz
Sample : WG1859049-2,32,,rv
Misc : WG1860349,WG1859049,ical20485
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 06 17:51:37 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 17:50:38 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV107\231206lvi\ABN1206.D
: 2 - I:\8270\SV107\231206lvi\ADP1206.D
: 3 - I:\8270\SV107\231206lvi\AP91206.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 4-Chlorophenyl phenyl ...	10.163	204	31817	3.236	ug/ml	88
74) 4-Nitroaniline	10.169	138	14229	3.152	ug/ml	89
75) 4,6-Dinitro-o-cresol	10.210	198	5265	2.369	ug/ml#	68
76) NDPA/DPA	10.281	169	53883	3.331	ug/ml	98
79) 4-Bromophenyl phenyl e...	10.633	248	17614	3.370	ug/ml#	87
86) Atrazine	10.816	200	18152	3.493	ug/ml	95
90) Carbazole	11.286	167	86353	3.115	ug/ml	98
91) Di-n-butylphthalate	11.675	149	107927	3.093	ug/ml#	98
96) Butyl benzyl phthalate	13.145	149	45208	3.246	ug/ml	92
105) 3,3'-Dichlorobenzidine	13.663	252	31816	2.979	ug/ml#	96
107) Bis(2-ethylhexyl)phtha...	13.780	149	68352	3.494	ug/ml#	92
108) Di-n-octylphthalate	14.457	149	105613	3.370	ug/ml#	74

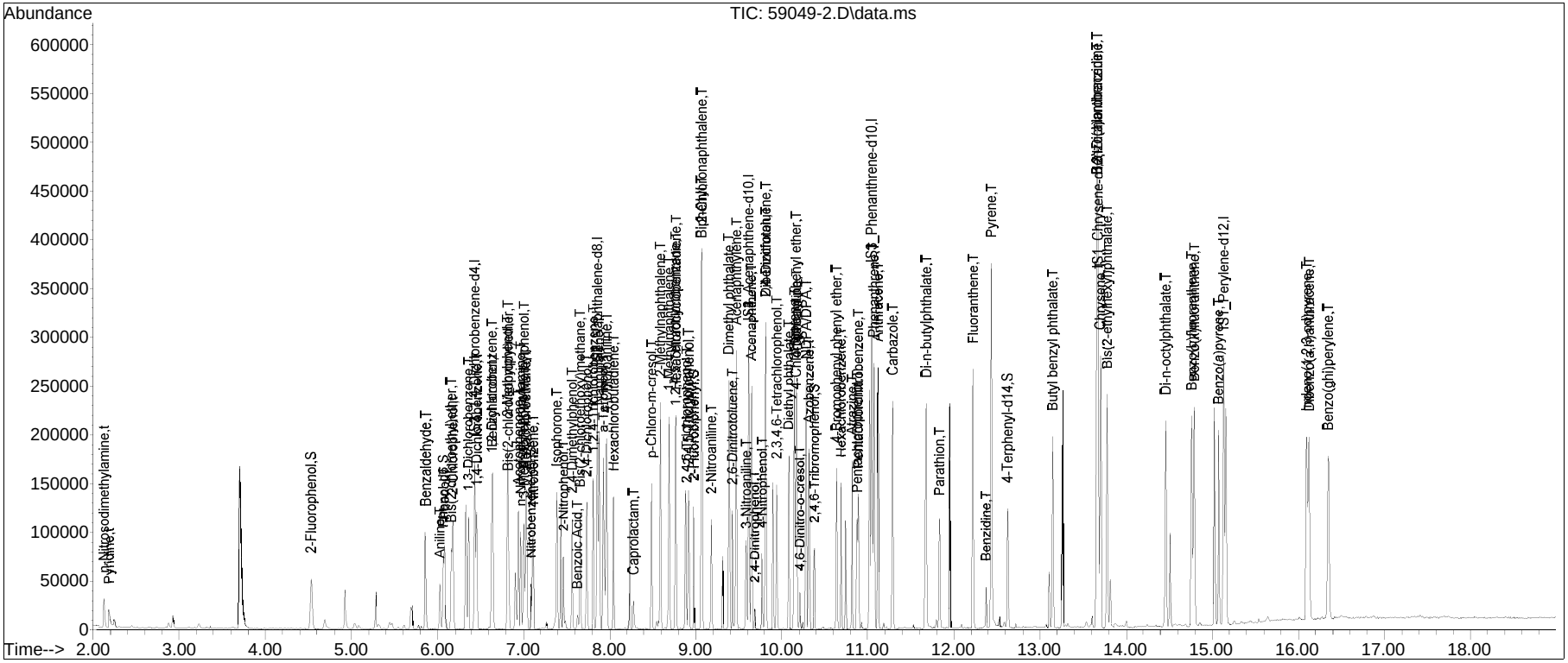
(#) = qualifier out of range (m) = manual integration (+) = signals summed

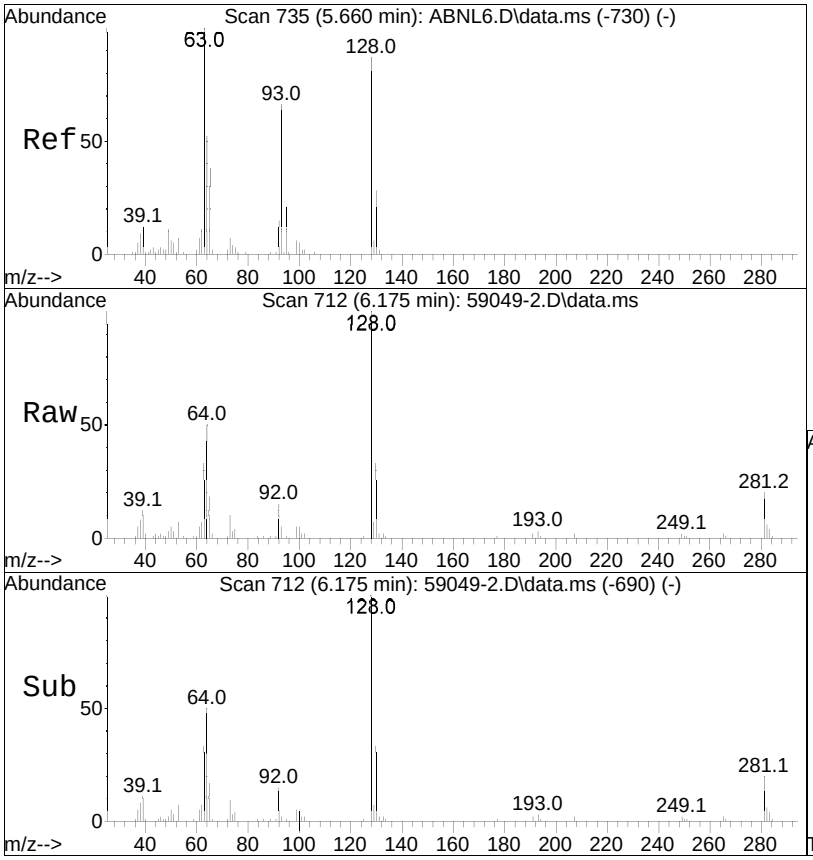
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231206lvi\
Data File : 59049-2.D
Acq On : 6 Dec 2023 5:30 pm
Operator : SV107:sz
Sample : WG1859049-2,32,,rv
Misc : WG1860349,WG1859049,ical20485
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 06 17:51:37 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 17:50:38 2023
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAlvi\AP91206.D•

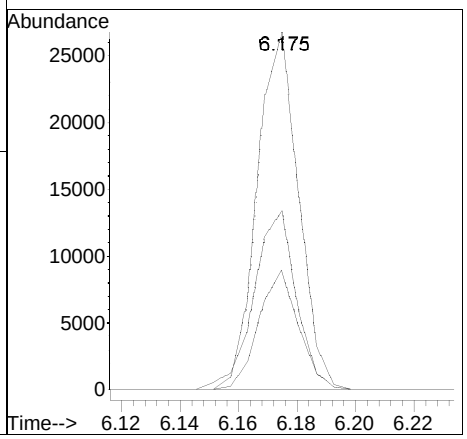


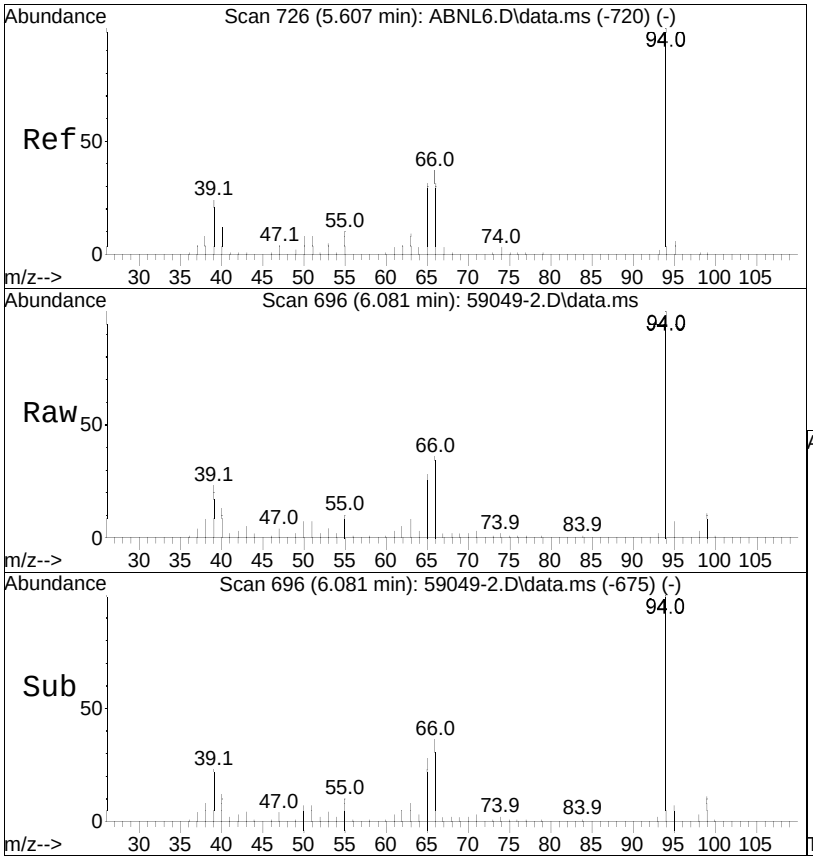


#6
2-Chlorophenol
Concen: 3.26 ug/ml
RT: 6.175 min Scan# 712
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:128 Resp: 26098

Ion	Ratio	Lower	Upper
128	100		
64	51.4	45.1	67.7
130	32.4	26.2	39.4

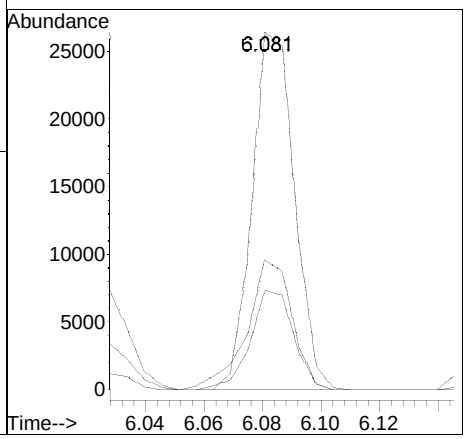


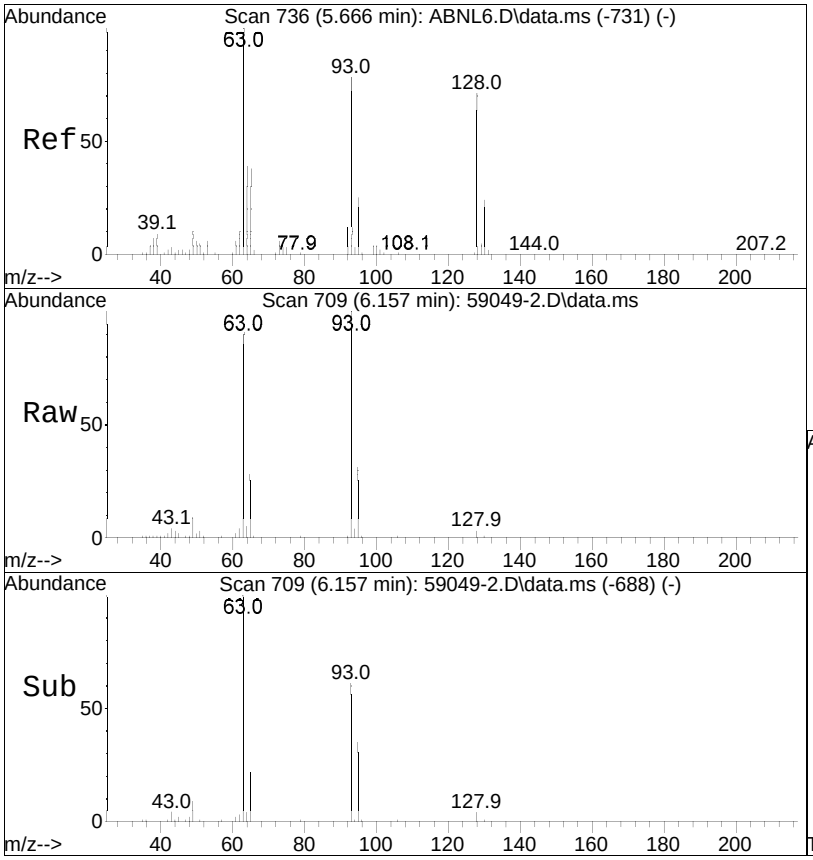


#8
Phenol
Concen: 2.69 ug/ml
RT: 6.081 min Scan# 696
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion: 94 Resp: 26345

Ion	Ratio	Lower	Upper
94	100		
65	28.5	26.0	39.0
66	39.0	33.8	50.8

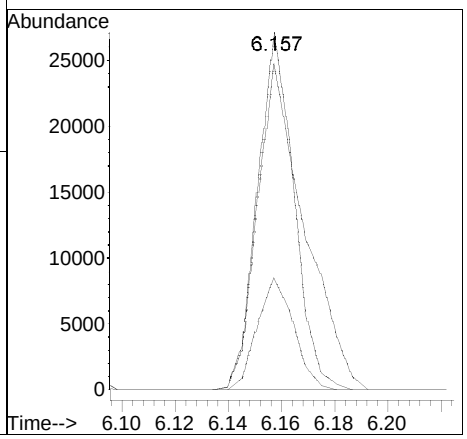


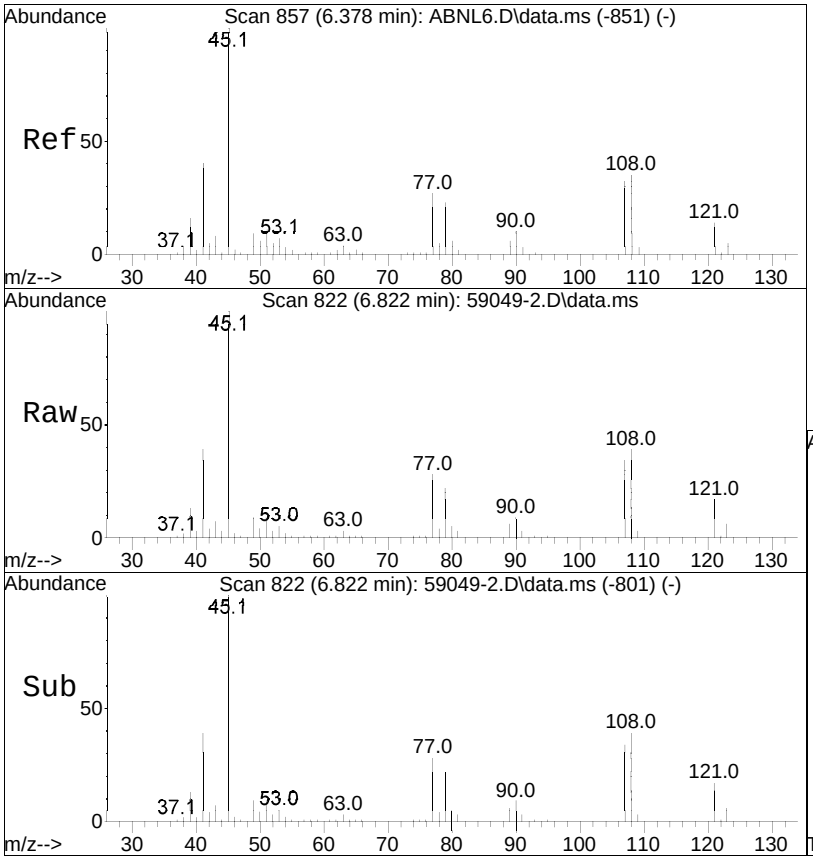


#9
Bis(2-chloroethyl)ether
Concen: 3.15 ug/ml
RT: 6.157 min Scan# 709
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion: 93 Resp: 25586

Ion	Ratio	Lower	Upper
93	100		
63	117.9	74.6	111.8#
95	31.4	25.9	38.9

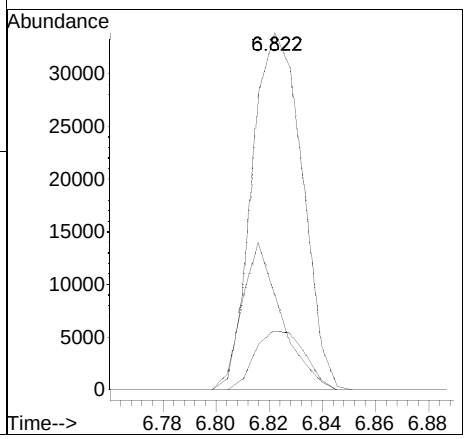


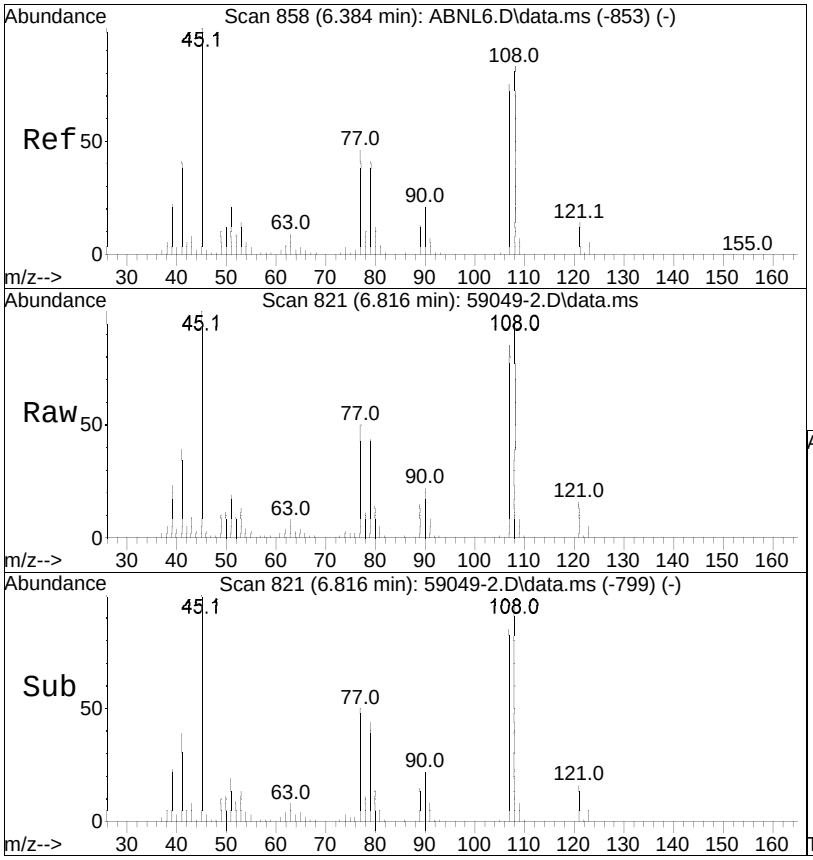


#14
Bis(2-chloroisopropyl)ether
Concen: 2.68 ug/ml
RT: 6.822 min Scan# 822
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion: 45 Resp: 44134

Ion	Ratio	Lower	Upper
45	100		
121	16.5	9.8	14.6#
77	32.7	6.1	9.1#

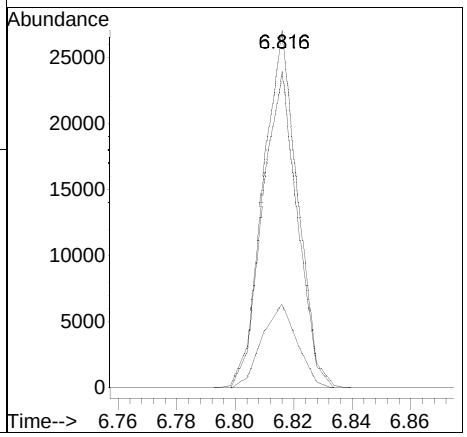


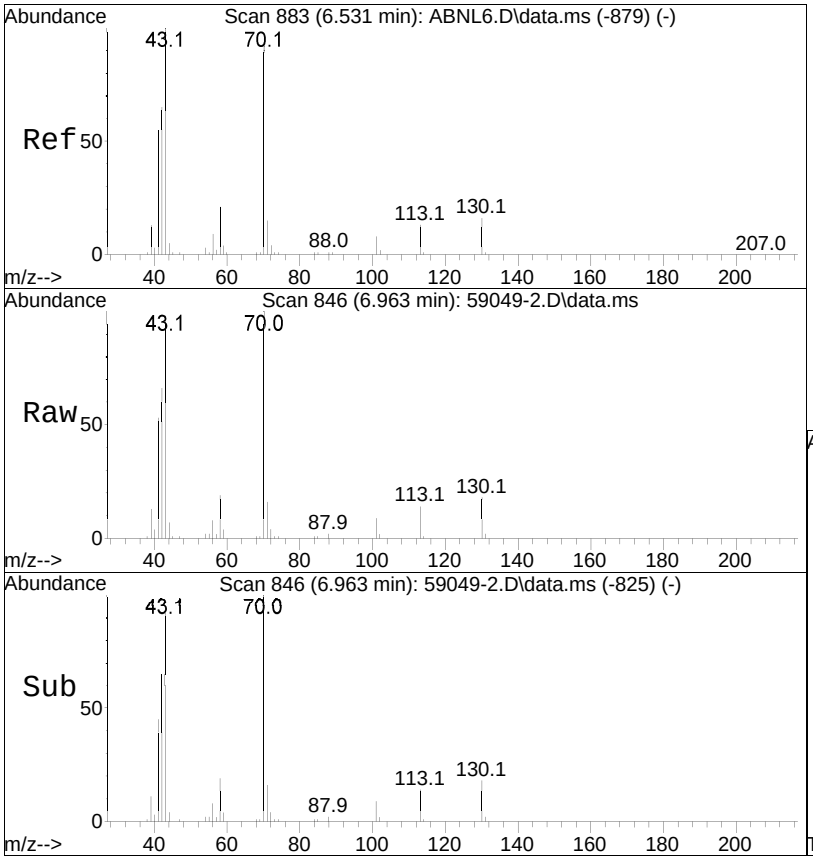


#15
2-Methylphenol
Concen: 3.18 ug/ml
RT: 6.816 min Scan# 821
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:108 Resp: 22178

Ion	Ratio	Lower	Upper
108	100		
107	88.9	70.7	106.1
90	23.9	18.7	28.1

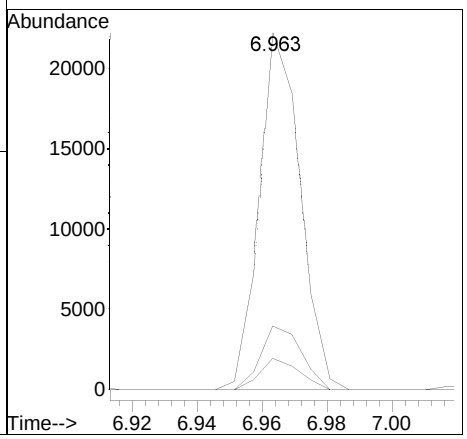


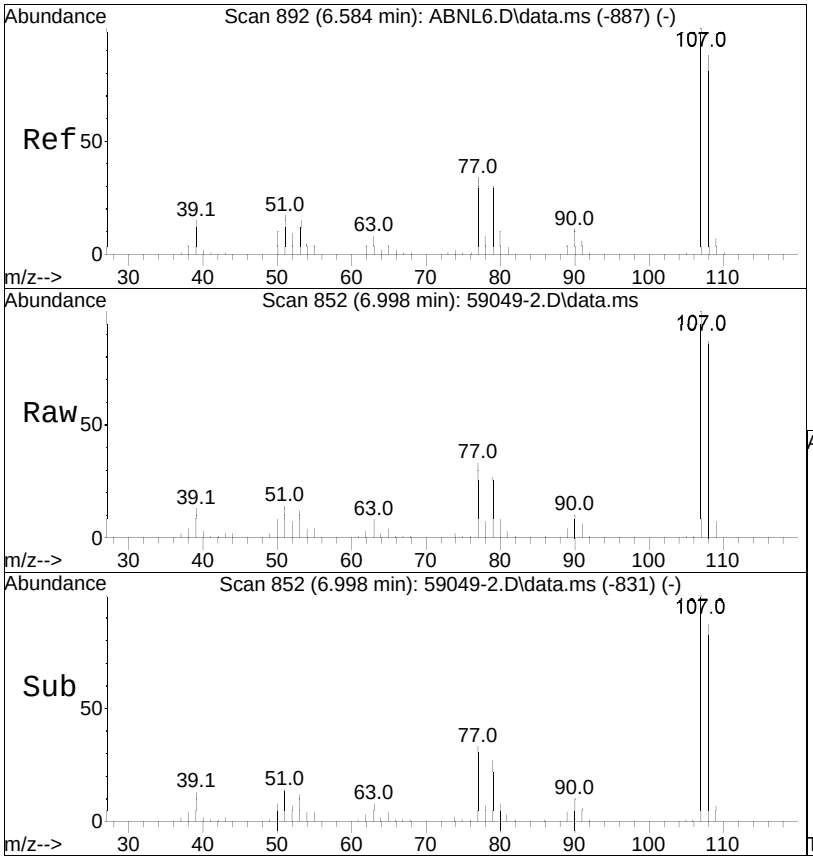


#17
n-Nitrosodi-n-propylamine
Concen: 3.23 ug/ml
RT: 6.963 min Scan# 846
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion: 70 Resp: 19394

Ion	Ratio	Lower	Upper
70	100		
130	17.7	18.2	27.4#
101	8.4	7.8	11.8

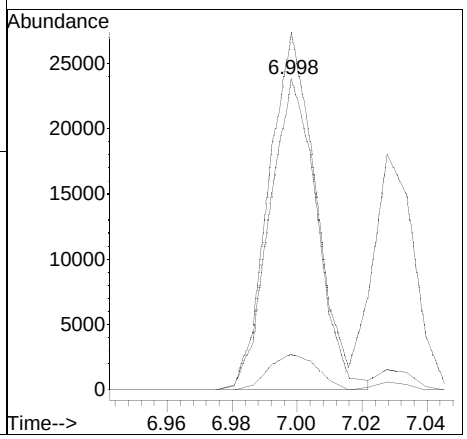


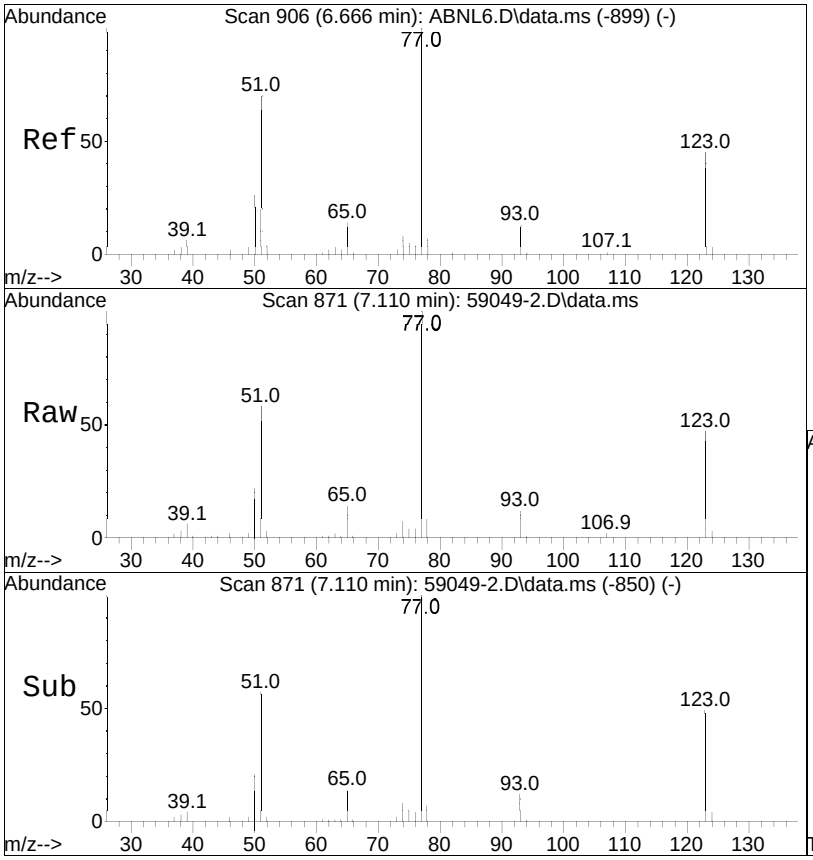


#18
3-Methylphenol/4-Methylphenol
Concen: 3.22 ug/ml
RT: 6.998 min Scan# 852
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:108 Resp: 24134

Ion	Ratio	Lower	Upper
108	100		
107	113.4	88.6	132.8
90	11.6	8.8	13.2

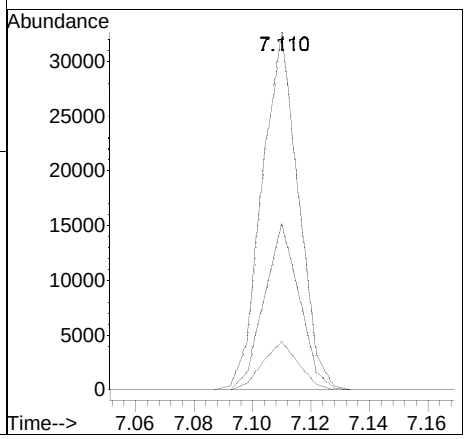


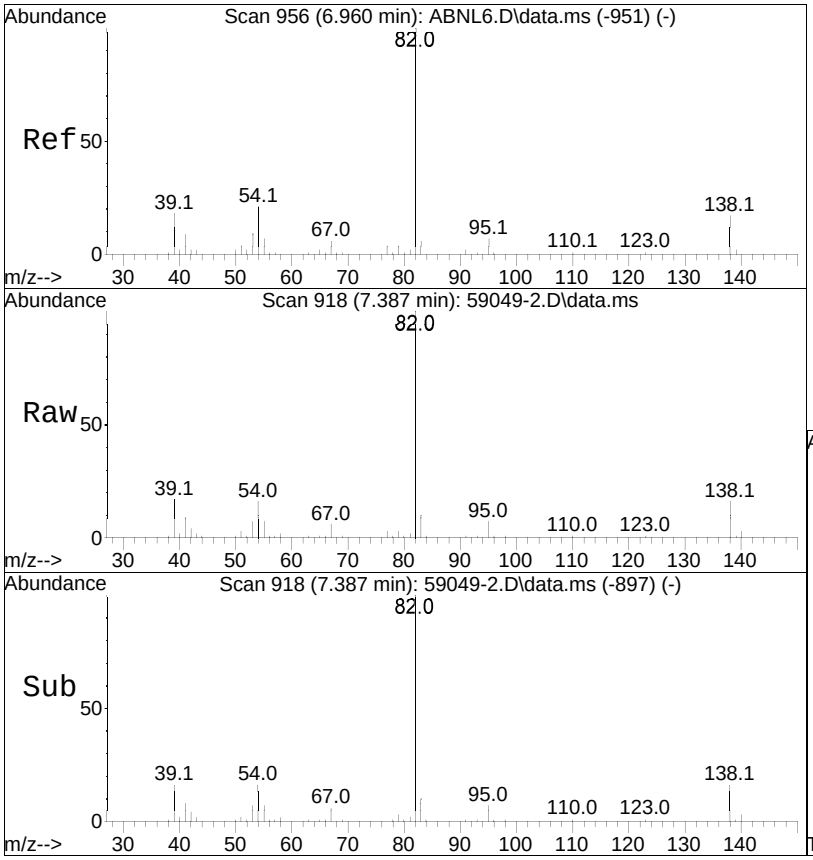


#20
Nitrobenzene
Concen: 3.15 ug/ml
RT: 7.110 min Scan# 871
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion: 77 Resp: 28015

Ion	Ratio	Lower	Upper
77	100		
123	45.1	36.3	54.5
65	13.5	11.6	17.4

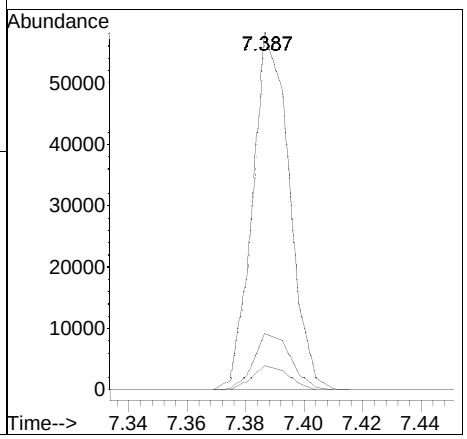


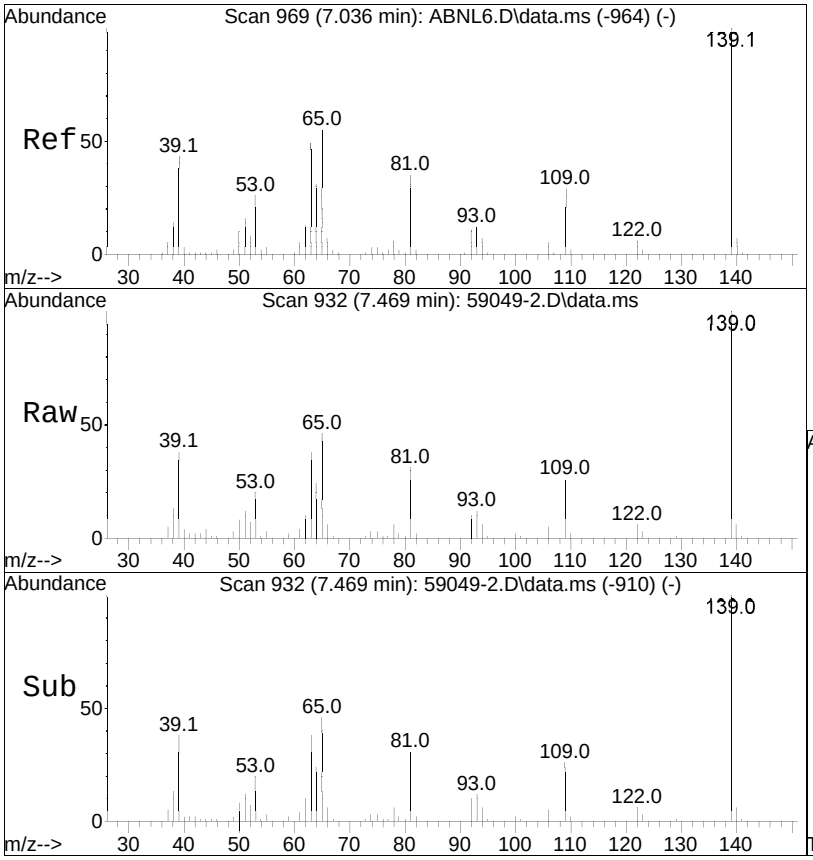


#21
Isophorone
Concen: 3.23 ug/ml
RT: 7.387 min Scan# 918
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion: 82 Resp: 50369

Ion	Ratio	Lower	Upper
82	100		
138	16.0	14.7	22.1
95	6.8	5.2	7.8

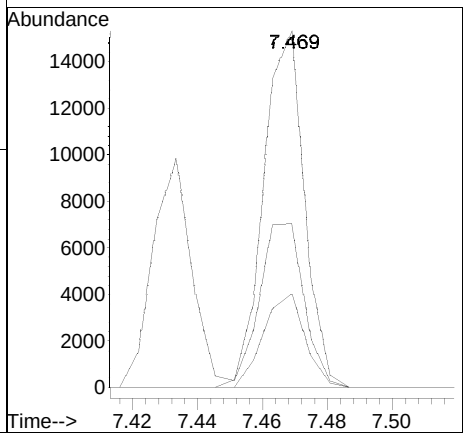


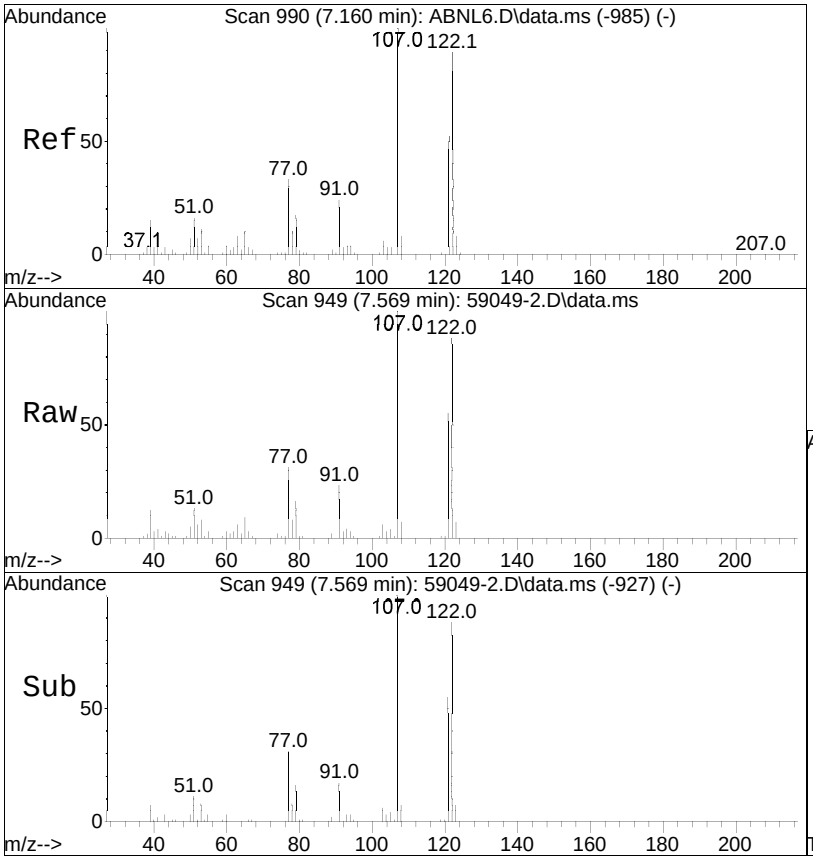


#22
2-Nitrophenol
Concen: 3.26 ug/ml
RT: 7.469 min Scan# 932
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:139 Resp: 13344

Ion	Ratio	Lower	Upper
139	100		
109	26.9	19.4	29.0
65	49.8	46.1	69.1

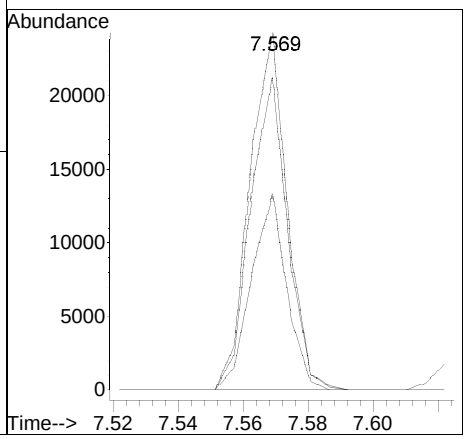


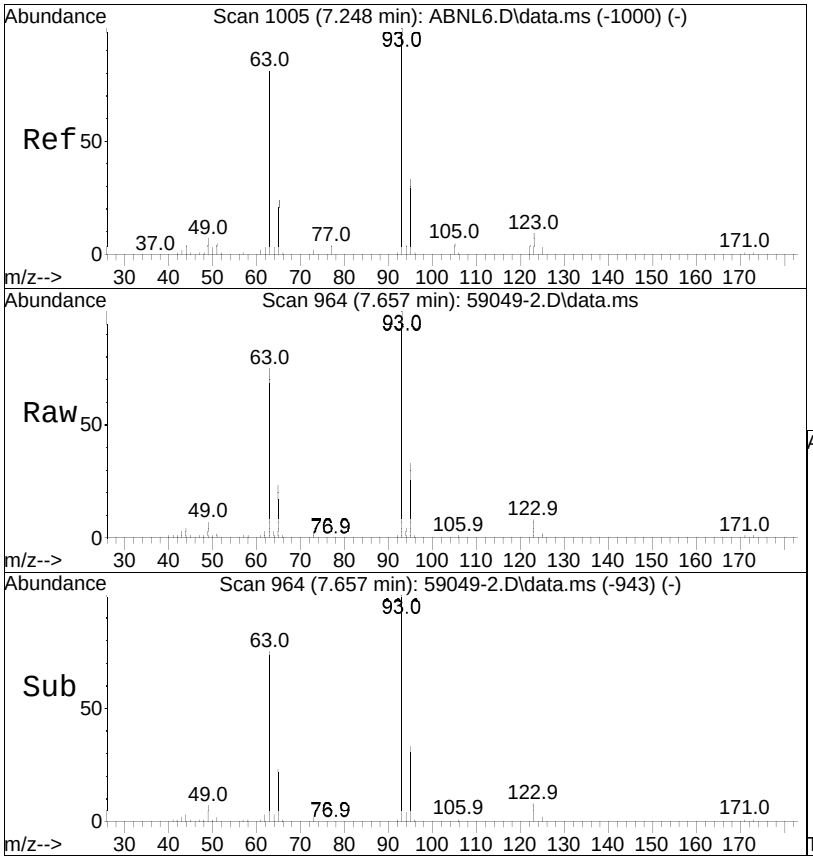


#23
2,4-Dimethylphenol
Concen: 2.37 ug/ml
RT: 7.569 min Scan# 949
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:107 Resp: 19175

Ion	Ratio	Lower	Upper
107	100		
121	52.3	40.0	60.0
122	87.1	70.2	105.4

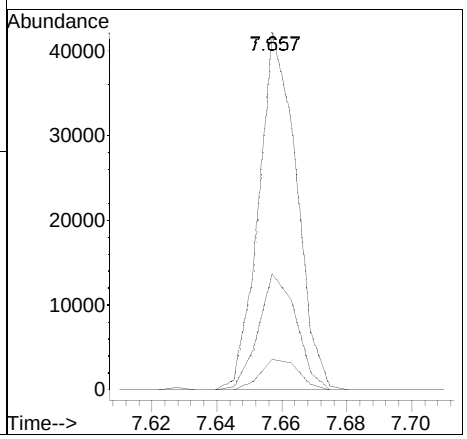


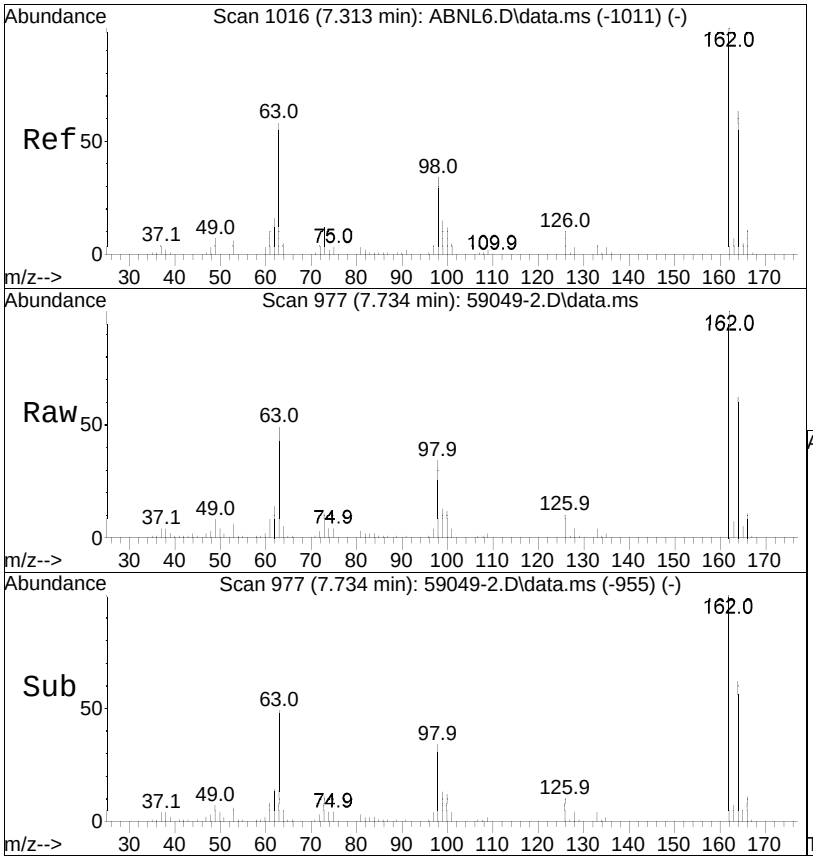


#24
Bis(2-chloroethoxy)methane
Concen: 3.12 ug/ml
RT: 7.657 min Scan# 964
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion: 93 Resp: 33621

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.8	38.8
123	8.7	10.1	15.1#

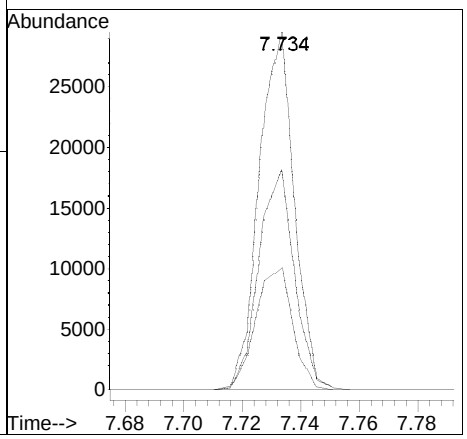


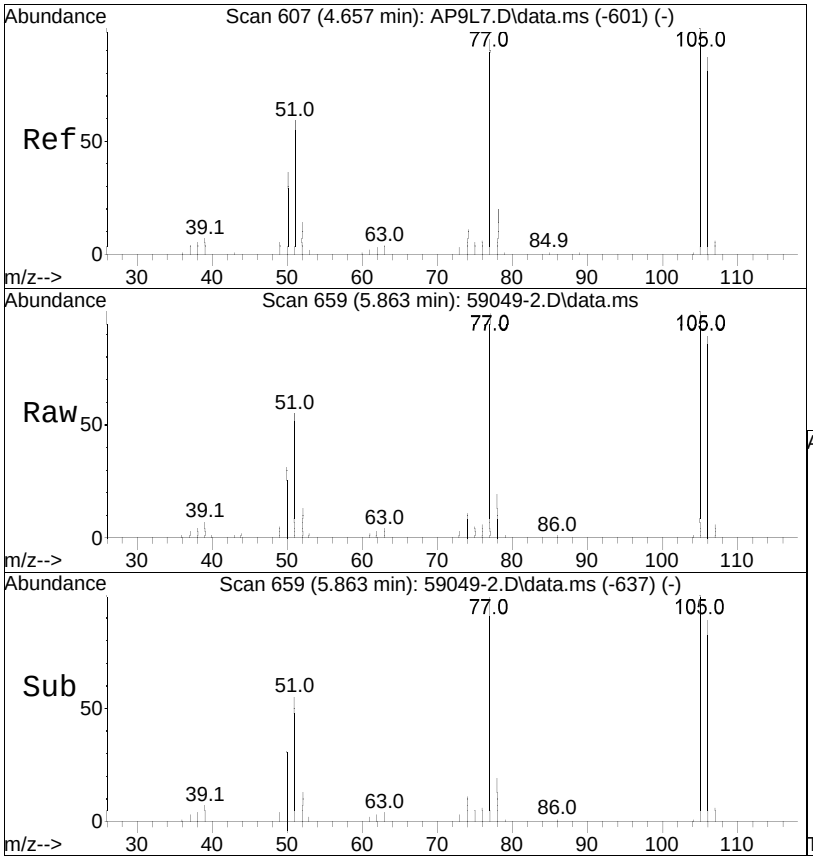


#25
2,4-Dichlorophenol
Concen: 3.37 ug/ml
RT: 7.734 min Scan# 977
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:162 Resp: 24427

Ion	Ratio	Lower	Upper
162	100		
164	62.4	51.0	76.4
98	36.2	32.2	48.2

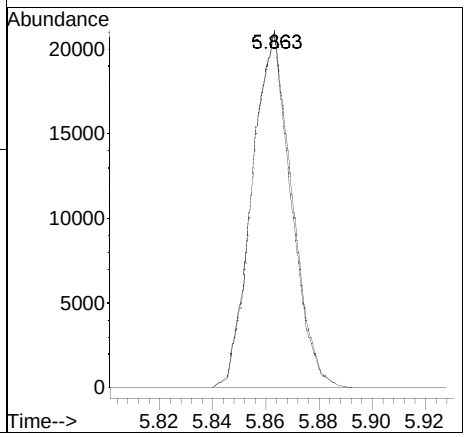


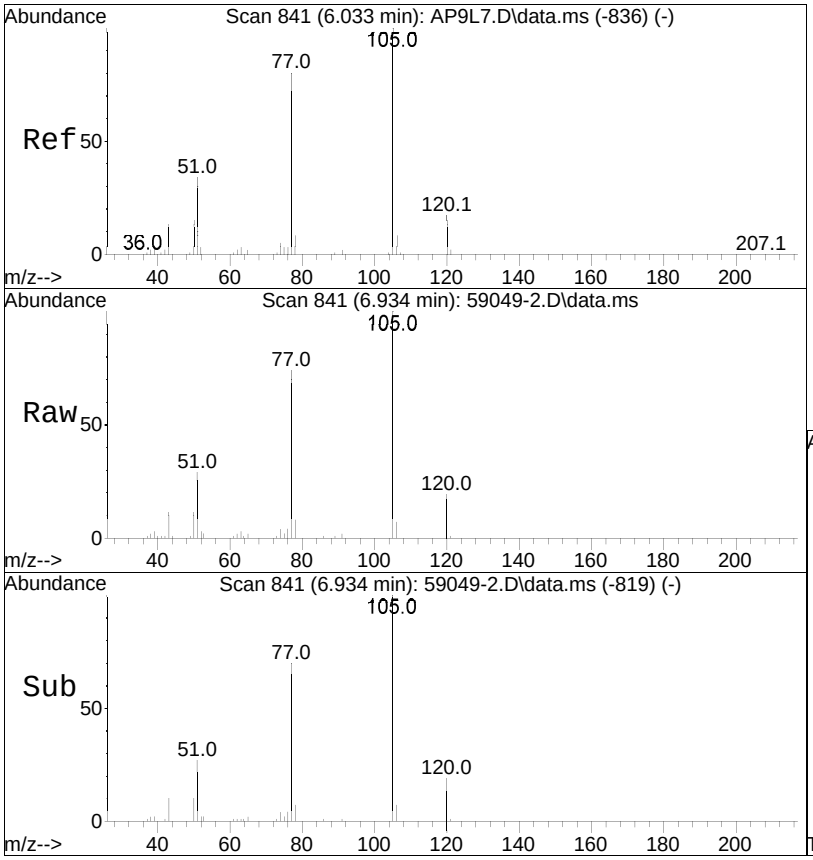


#28
Benzaldehyde
Concen: 3.47 ug/ml
RT: 5.863 min Scan# 659
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:105 Resp: 21632

Ion	Ratio	Lower	Upper
105	100		
77	97.8	82.2	123.4

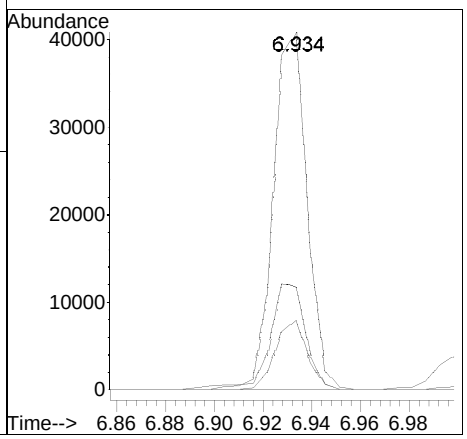


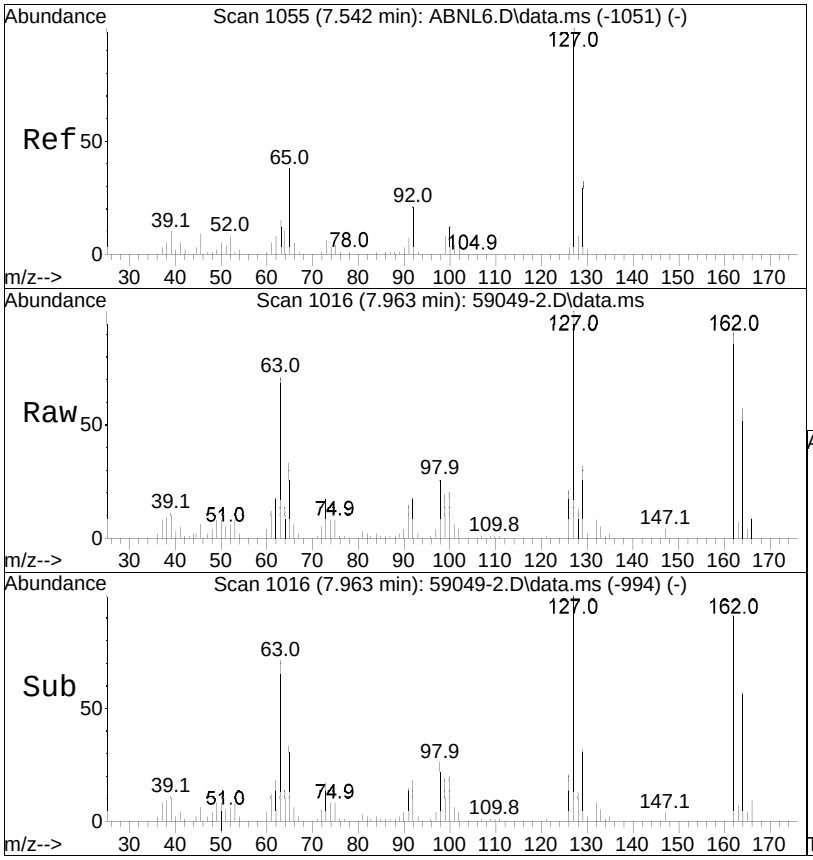


#29
Acetophenone
Concen: 3.41 ug/ml
RT: 6.934 min Scan# 841
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:105 Resp: 38767

Ion	Ratio	Lower	Upper
105	100		
120	18.5	20.5	30.7#
51	31.5	34.9	52.3#

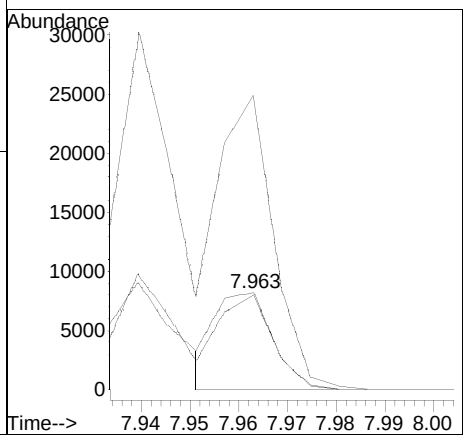


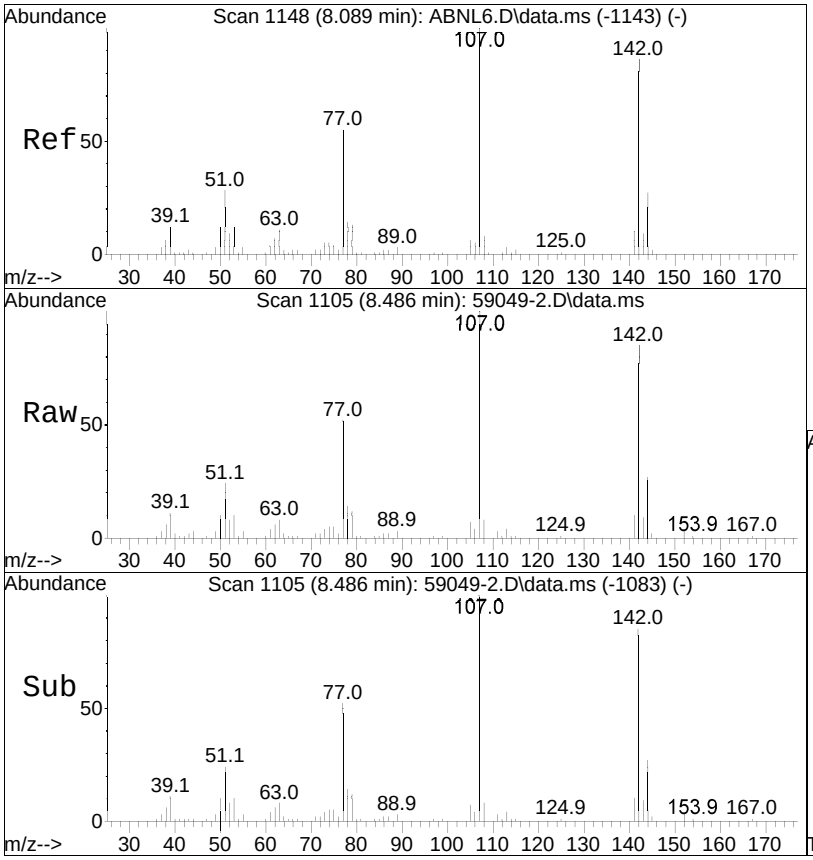


#37
4-Chloroaniline
Concen: 1.91 ug/ml
RT: 7.963 min Scan# 1016
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion: 65 Resp: 6629

Ion	Ratio	Lower	Upper
65	100		
127	294.0	237.6	356.4
129	92.4	76.3	114.5

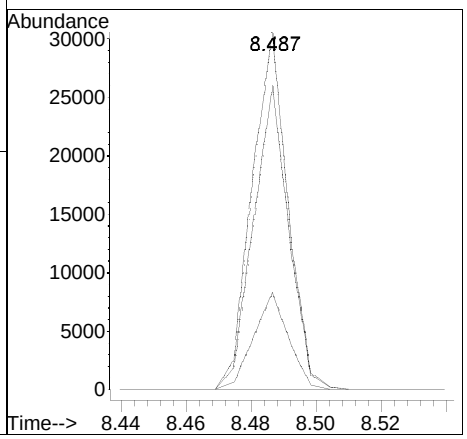


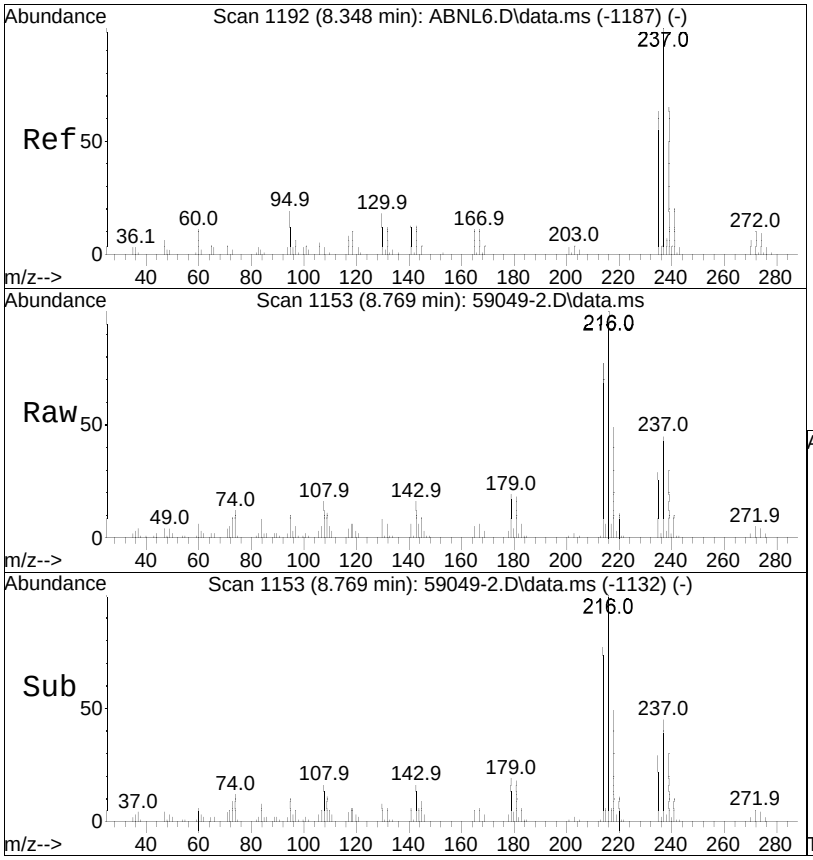


#39
p-Chloro-m-cresol
Concen: 3.29 ug/ml
RT: 8.486 min Scan# 1105
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:107 Resp: 23128

Ion	Ratio	Lower	Upper
107	100		
144	26.6	20.9	31.3
142	83.7	66.1	99.1

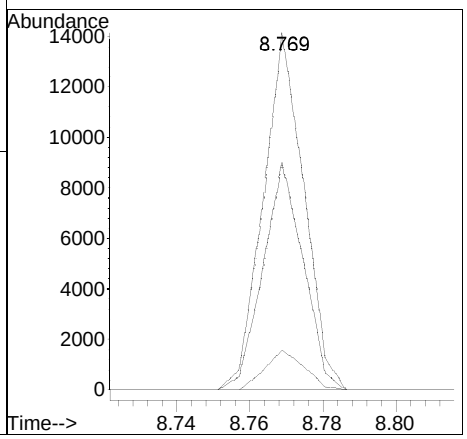


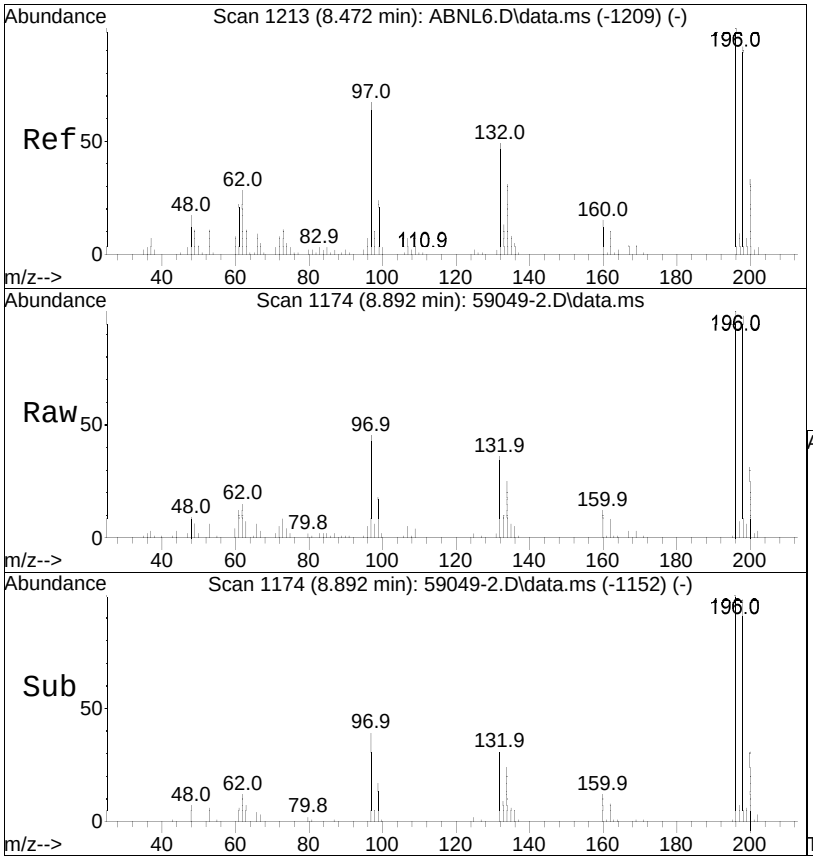


#42
Hexachlorocyclopentadiene
Concen: 1.93 ug/ml
RT: 8.769 min Scan# 1153
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:237 Resp: 10860

Ion	Ratio	Lower	Upper
237	100		
235	63.3	49.7	74.5
272	10.9	9.8	14.6

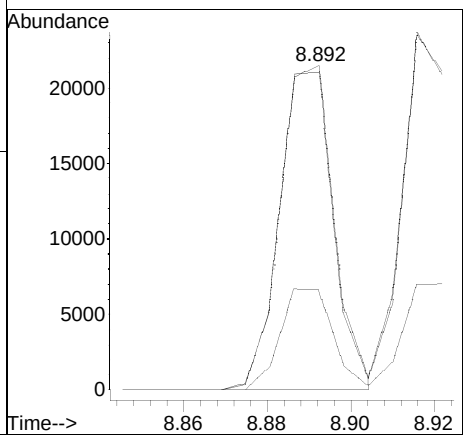


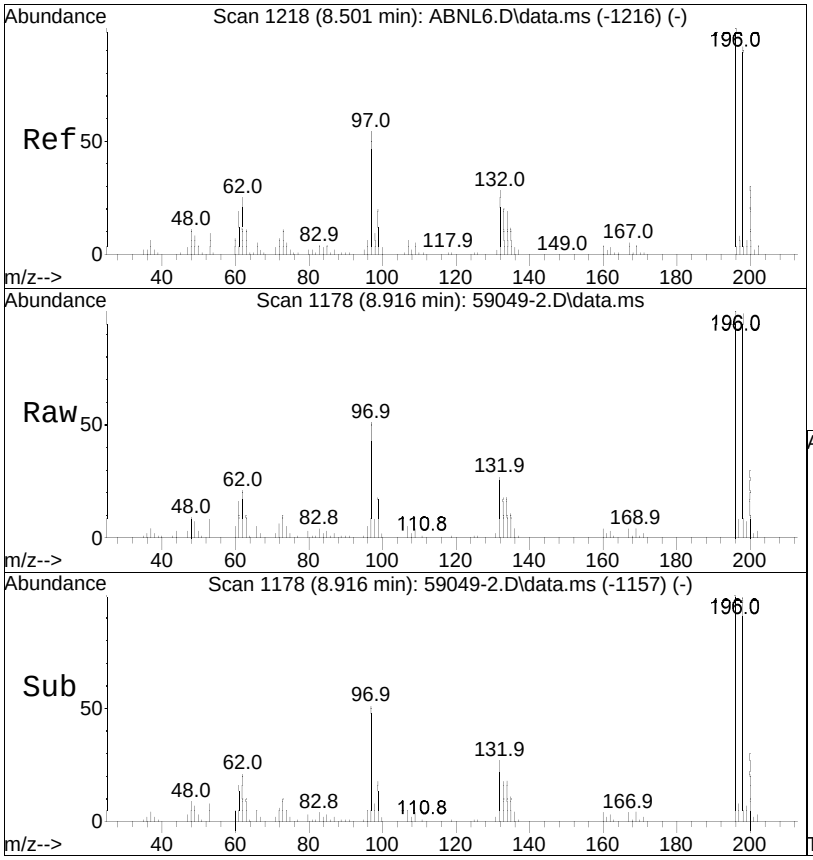


#43
2,4,6-Trichlorophenol
Concen: 3.61 ug/ml
RT: 8.892 min Scan# 1174
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:196 Resp: 19161

Ion	Ratio	Lower	Upper
196	100		
198	98.3	77.5	116.3
200	30.8	23.8	35.6

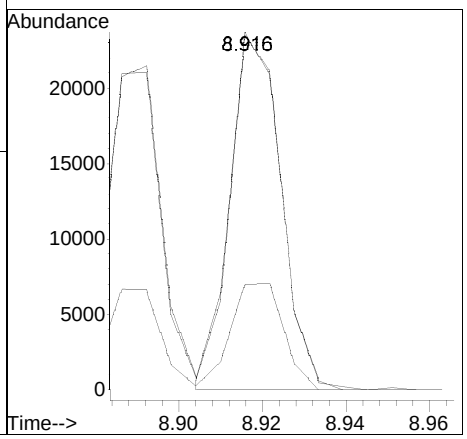


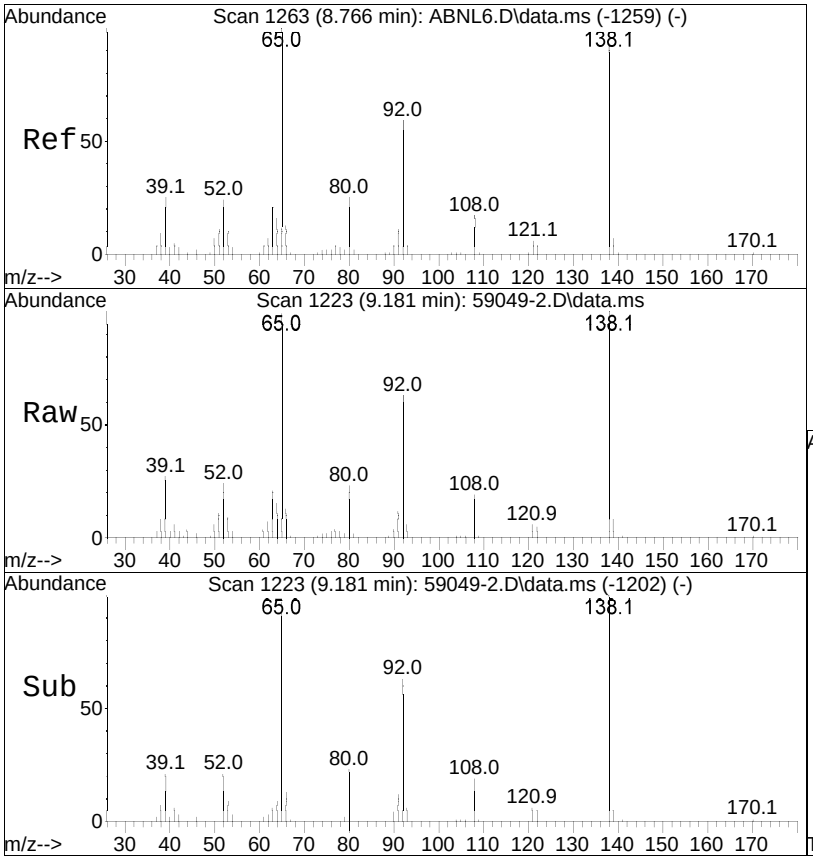


#44
2,4,5-Trichlorophenol
Concen: 3.46 ug/ml
RT: 8.916 min Scan# 1178
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:196 Resp: 19964

Ion	Ratio	Lower	Upper
196	100		
200	31.3	25.4	38.0
198	99.6	78.0	117.0

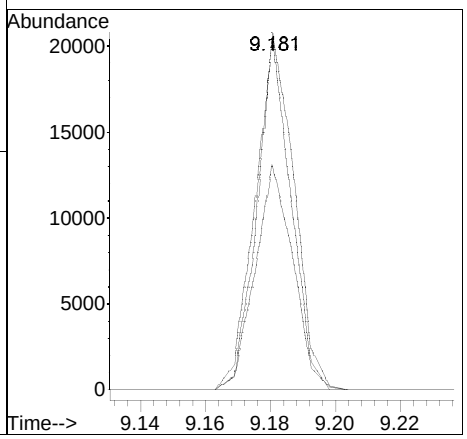


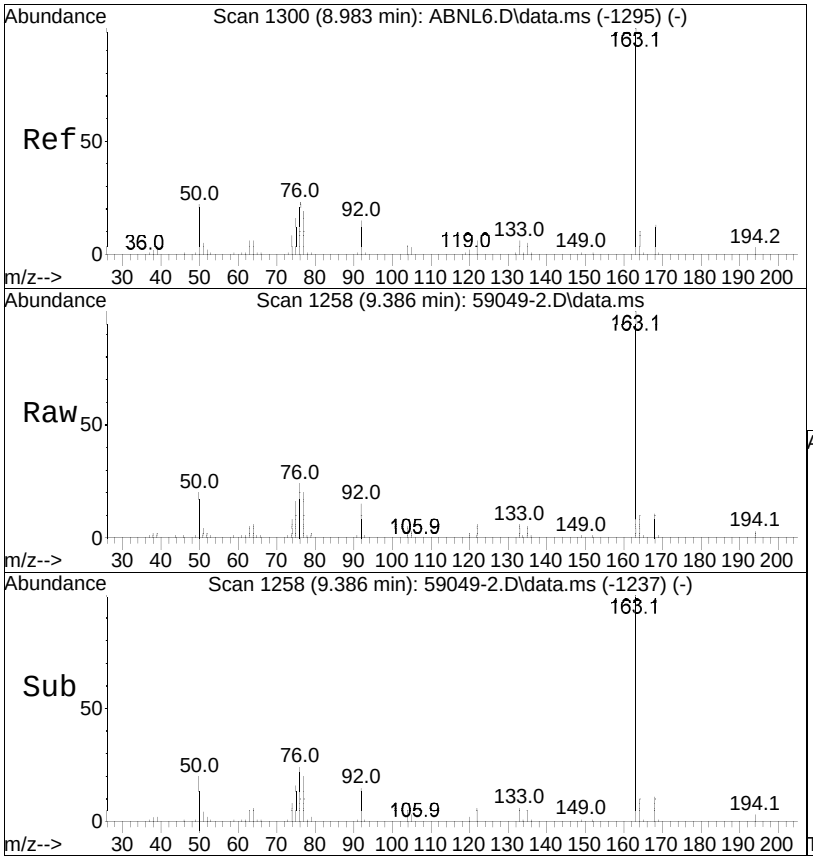


#47
2-Nitroaniline
Concen: 3.30 ug/ml
RT: 9.181 min Scan# 1223
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:138 Resp: 16118

Ion	Ratio	Lower	Upper
138	100		
92	65.0	53.5	80.3
65	96.5	86.3	129.5

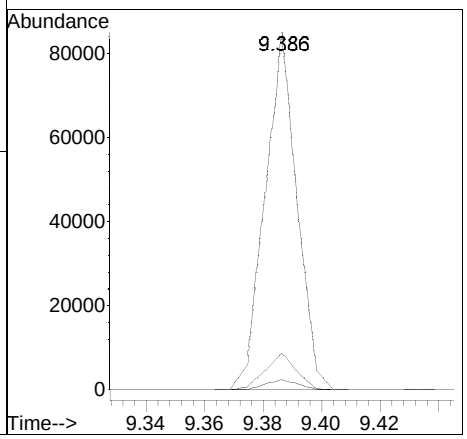


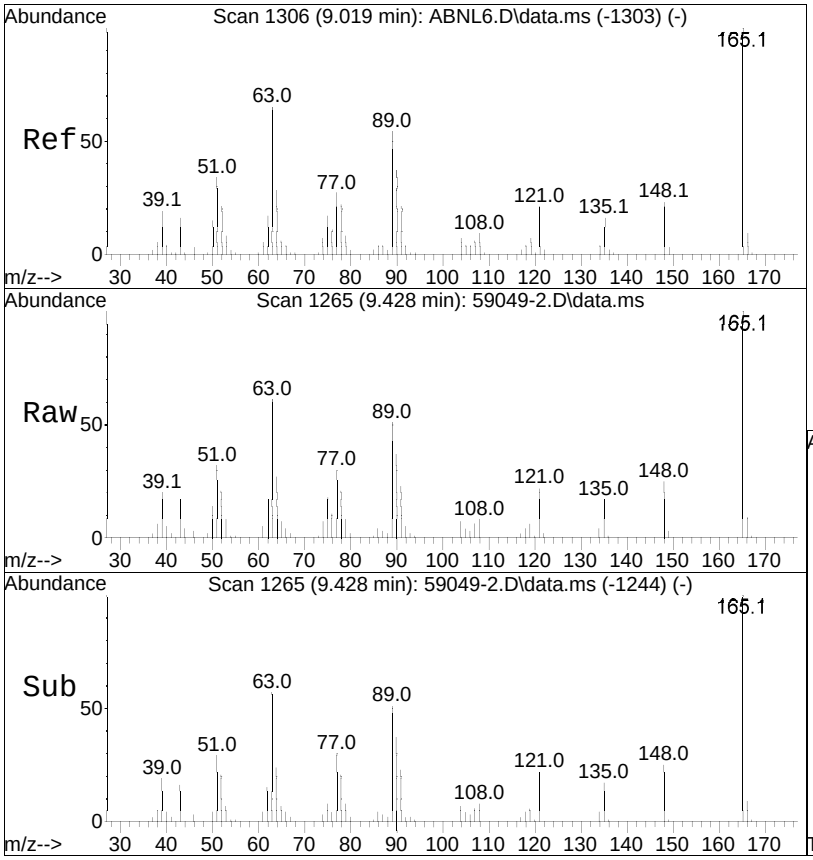


#50
Dimethyl phthalate
Concen: 3.10 ug/ml
RT: 9.386 min Scan# 1258
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:163 Resp: 63619

Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.1	7.9	11.9

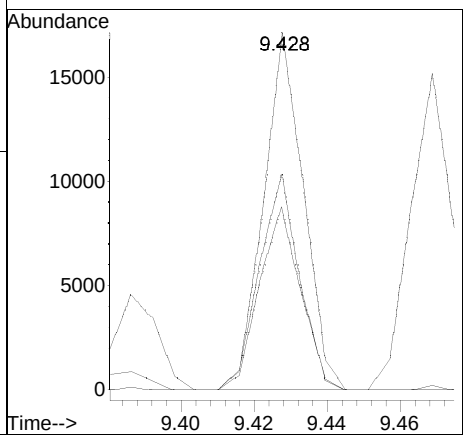


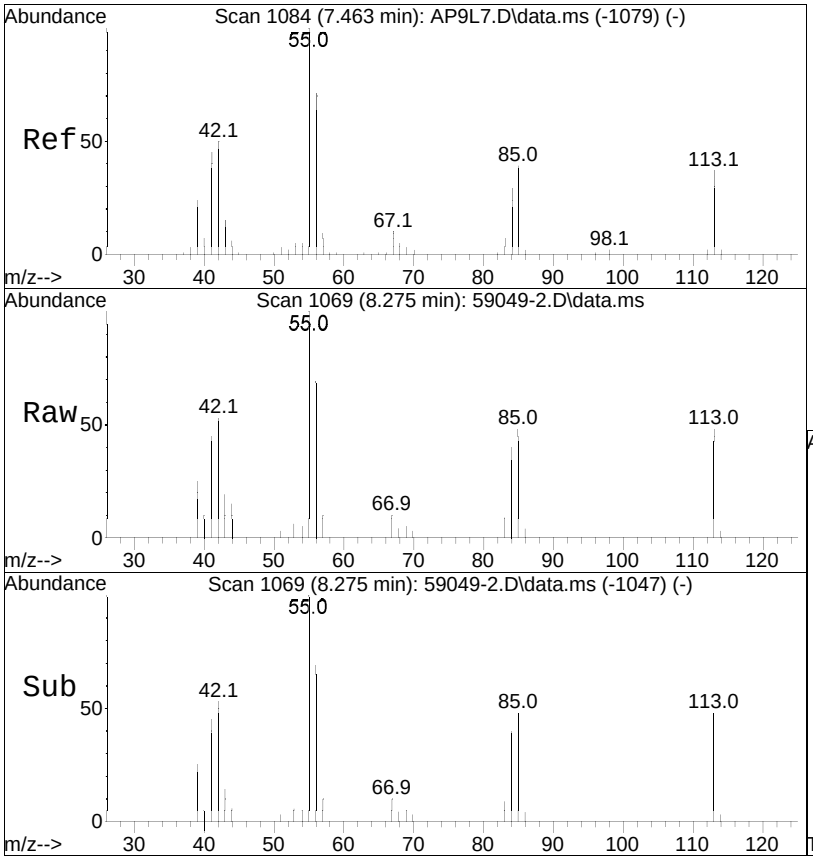


#52
2,6-Dinitrotoluene
Concen: 3.08 ug/ml
RT: 9.428 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:165 Resp: 12970

Ion	Ratio	Lower	Upper
165	100		
89	53.0	54.2	81.2#
63	60.5	64.2	96.2#

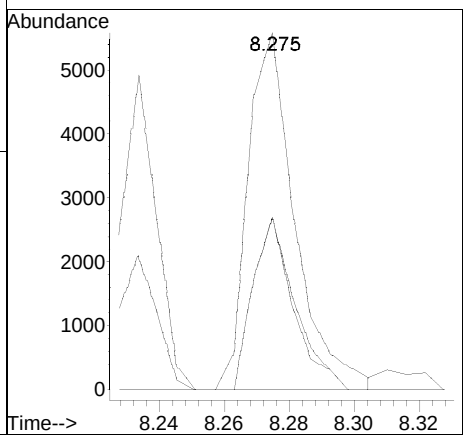


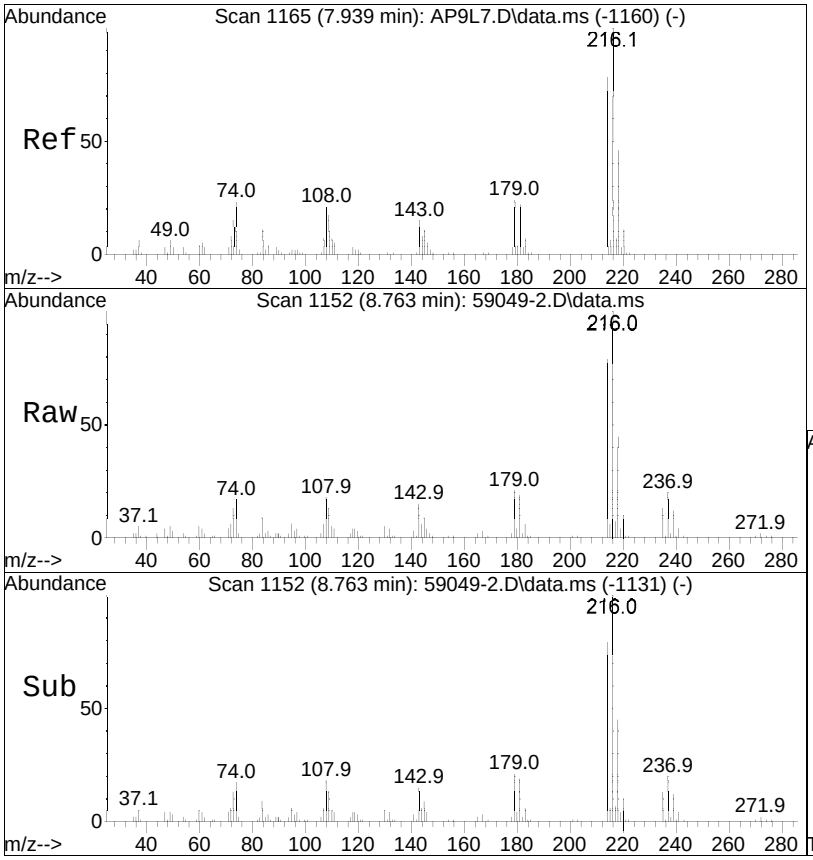


#59
Caprolactam
Concen: 1.15 ug/ml
RT: 8.275 min Scan# 1069
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion: 55 Resp: 5610

Ion	Ratio	Lower	Upper
55	100		
85	41.3	19.8	29.6#
113	43.2	29.6	44.4

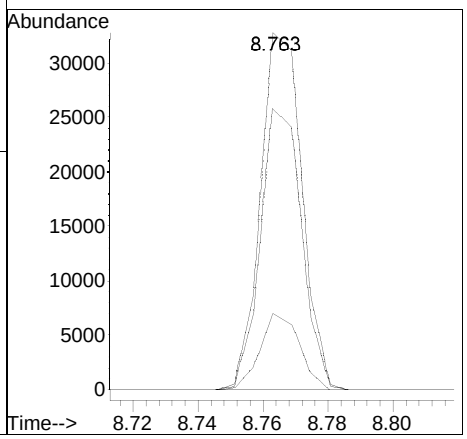


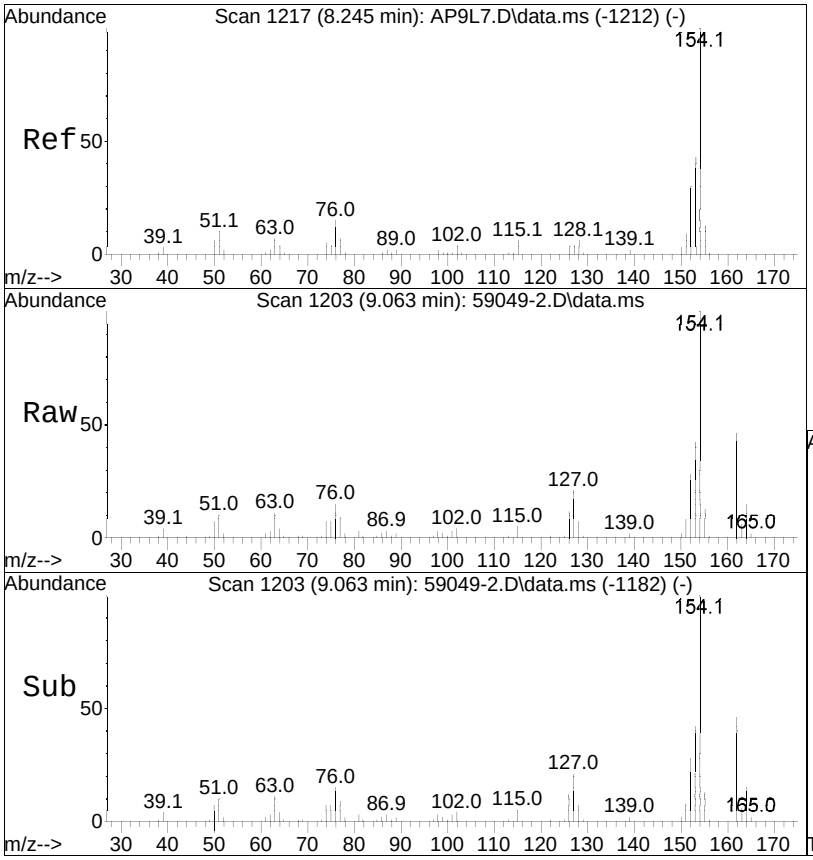


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.48 ug/ml
RT: 8.763 min Scan# 1152
Delta R.T. -0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:216 Resp: 29064

Ion	Ratio	Lower	Upper
216	100		
214	78.1	63.7	95.5
179	20.4	19.0	28.6

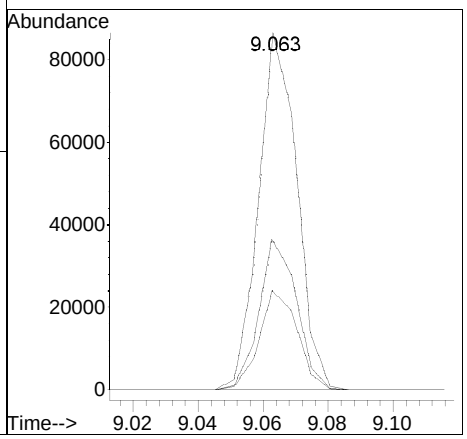


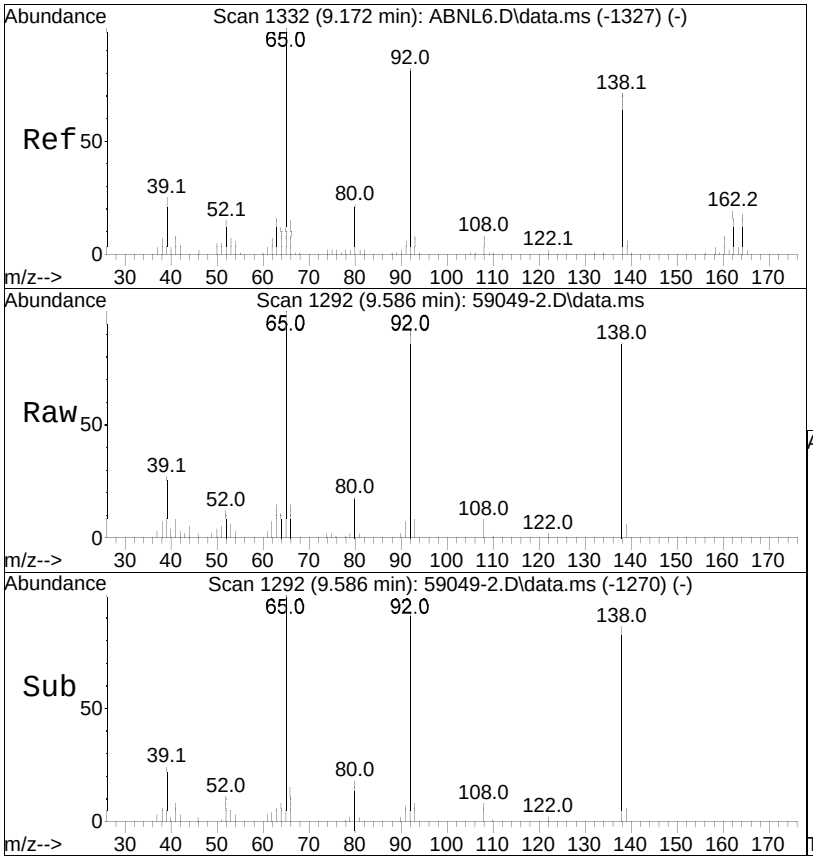


#61
Biphenyl
Concen: 3.42 ug/ml
RT: 9.063 min Scan# 1203
Delta R.T. -0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:154 Resp: 70192

Ion	Ratio	Lower	Upper
154	100		
153	41.6	32.3	48.5
152	28.0	22.5	33.7

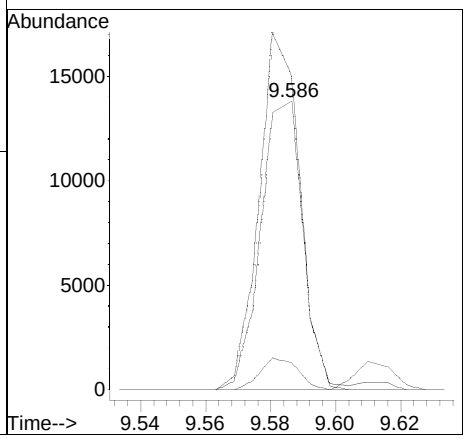


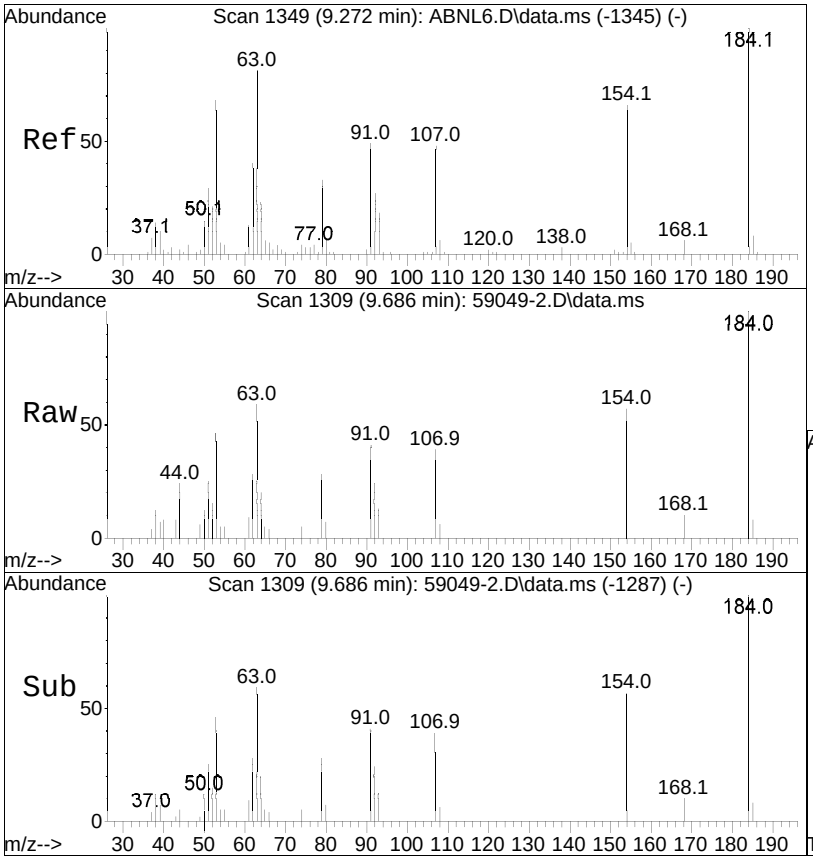


#63
3-Nitroaniline
Concen: 2.71 ug/ml
RT: 9.586 min Scan# 1292
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:138 Resp: 12271

Ion	Ratio	Lower	Upper
138	100		
92	120.1	93.4	140.2
108	10.3	9.5	14.3

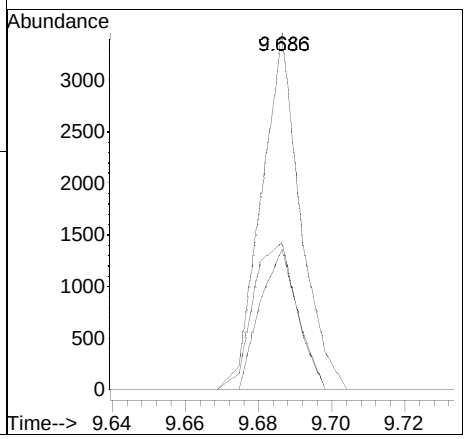


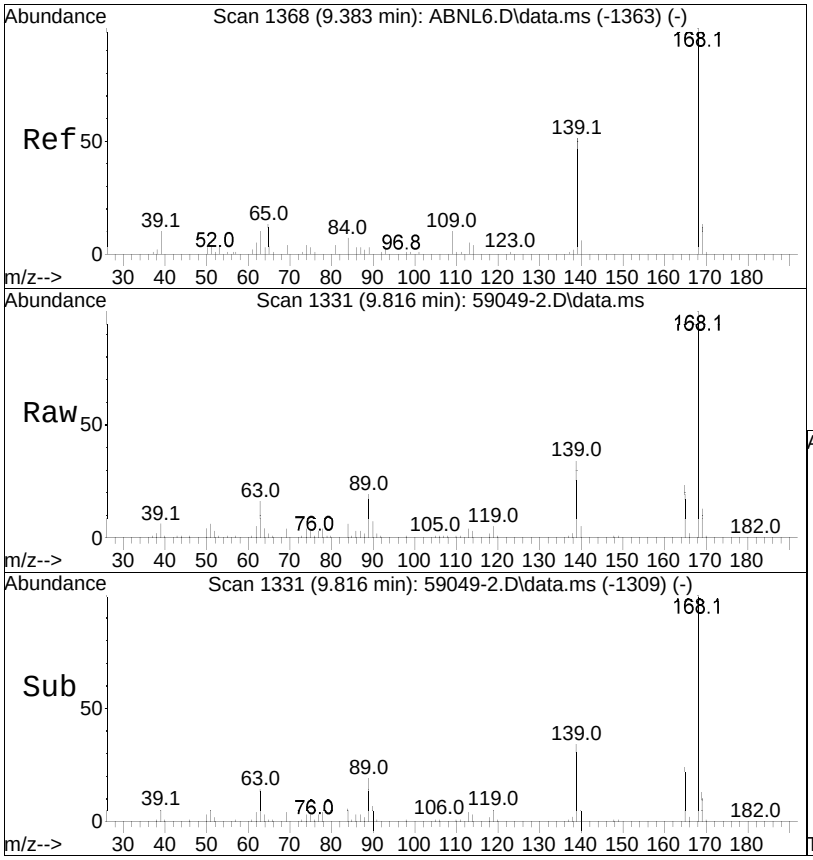


#65
2,4-Dinitrophenol
Concen: 2.09 ug/ml
RT: 9.686 min Scan# 1309
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:184 Resp: 2540

Ion	Ratio	Lower	Upper
184	100		
107	38.3	37.7	56.5
91	46.2	46.3	69.5#

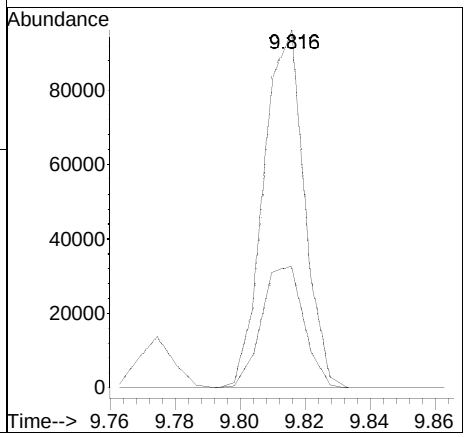


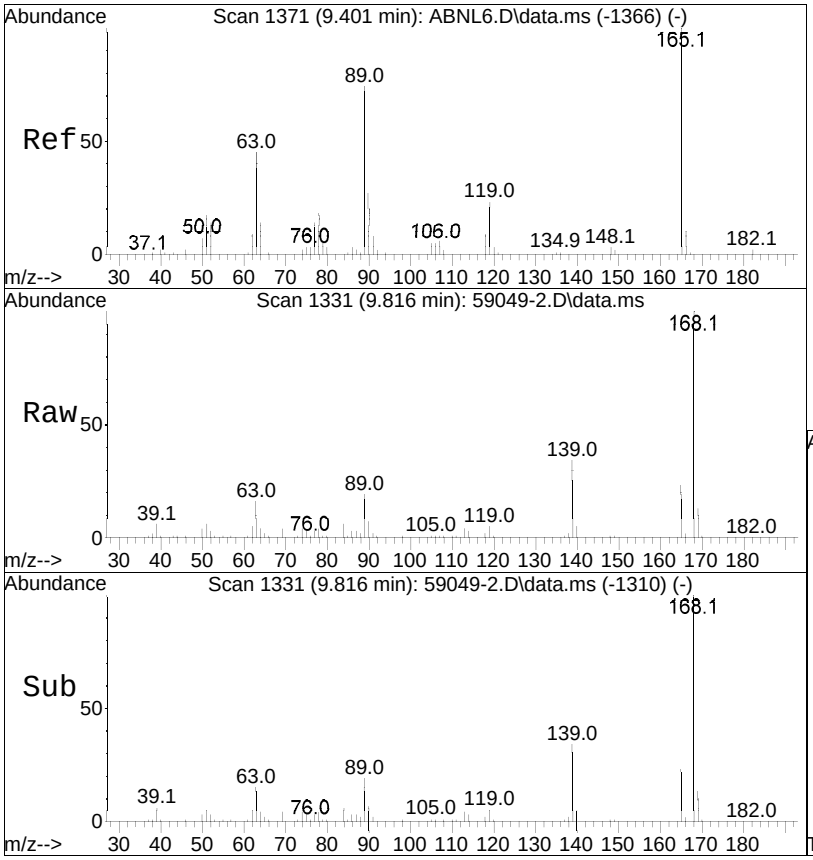


#66
Dibenzofuran
Concen: 3.34 ug/ml
RT: 9.816 min Scan# 1331
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:168 Resp: 82841

Ion	Ratio	Lower	Upper
168	100		
139	35.7	31.4	47.2

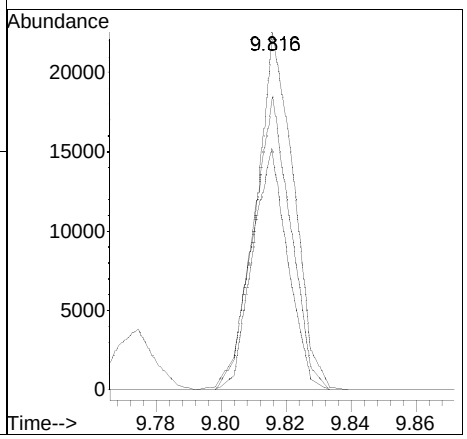


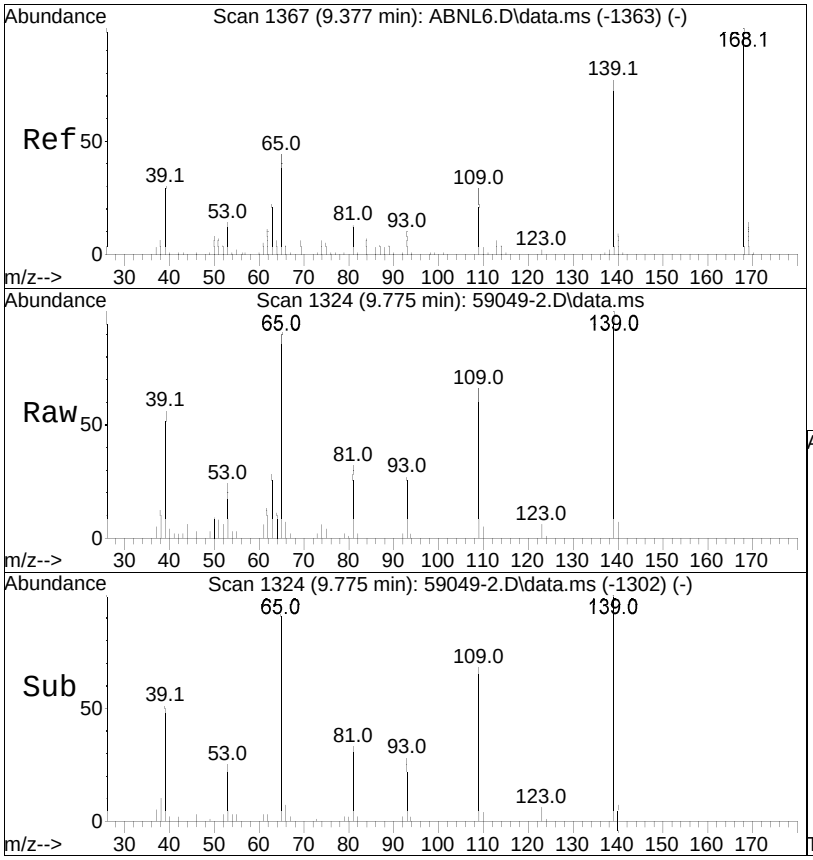


#67
2,4-Dinitrotoluene
Concen: 2.97 ug/ml
RT: 9.816 min Scan# 1331
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:165 Resp: 17422

Ion	Ratio	Lower	Upper
165	100		
89	84.5	72.0	108.0
63	69.5	52.7	79.1

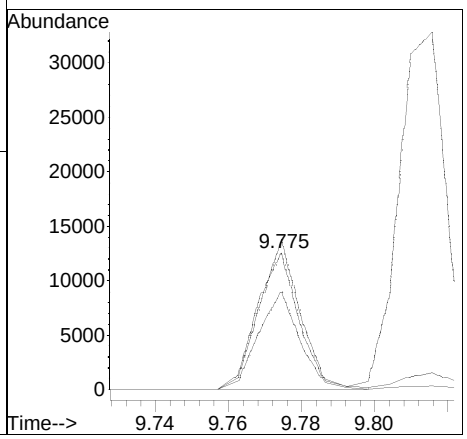


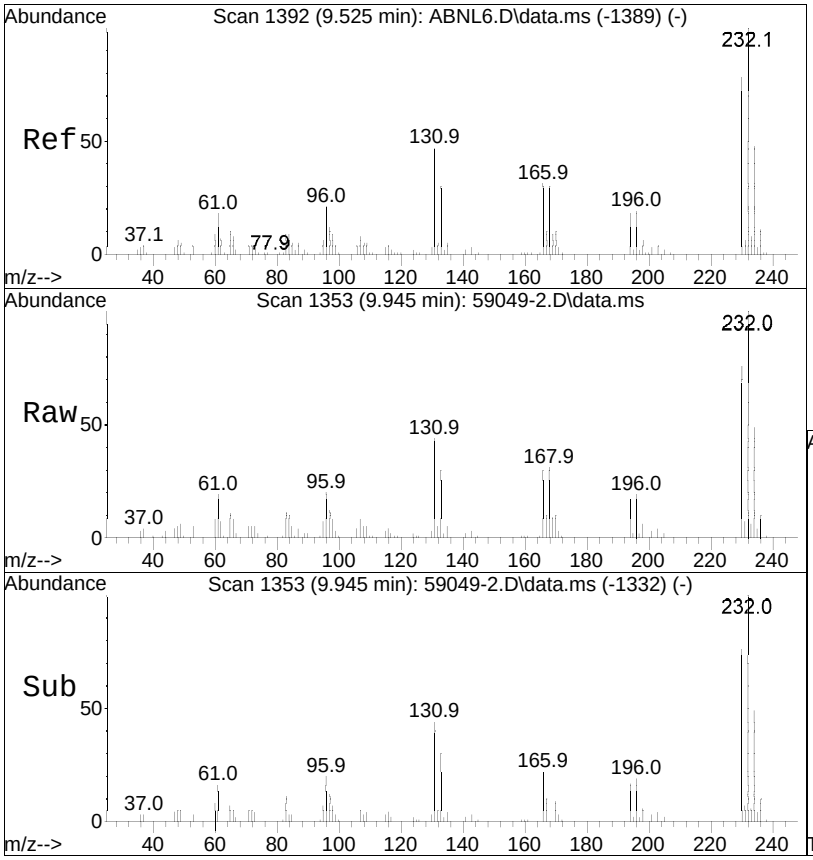


#68
4-Nitrophenol
Concen: 2.22 ug/ml
RT: 9.775 min Scan# 1324
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion: 65 Resp: 10131

Ion	Ratio	Lower	Upper
65	100		
109	69.2	47.4	71.2
139	103.8	76.6	115.0

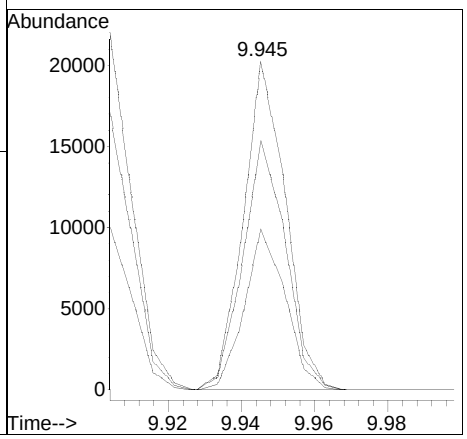


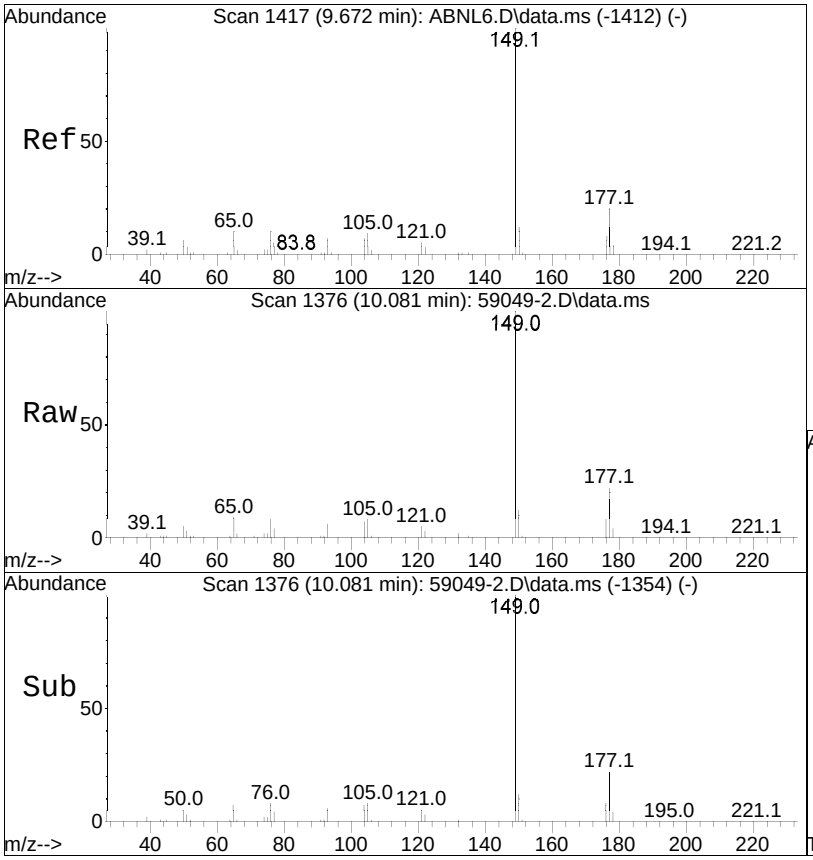


#70
2,3,4,6-Tetrachlorophenol
Concen: 3.34 ug/ml
RT: 9.945 min Scan# 1353
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:232 Resp: 16240

Ion	Ratio	Lower	Upper
232	100		
230	76.9	61.8	92.8
234	47.7	36.2	54.2

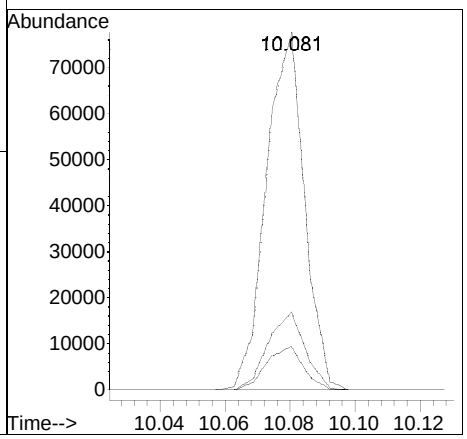


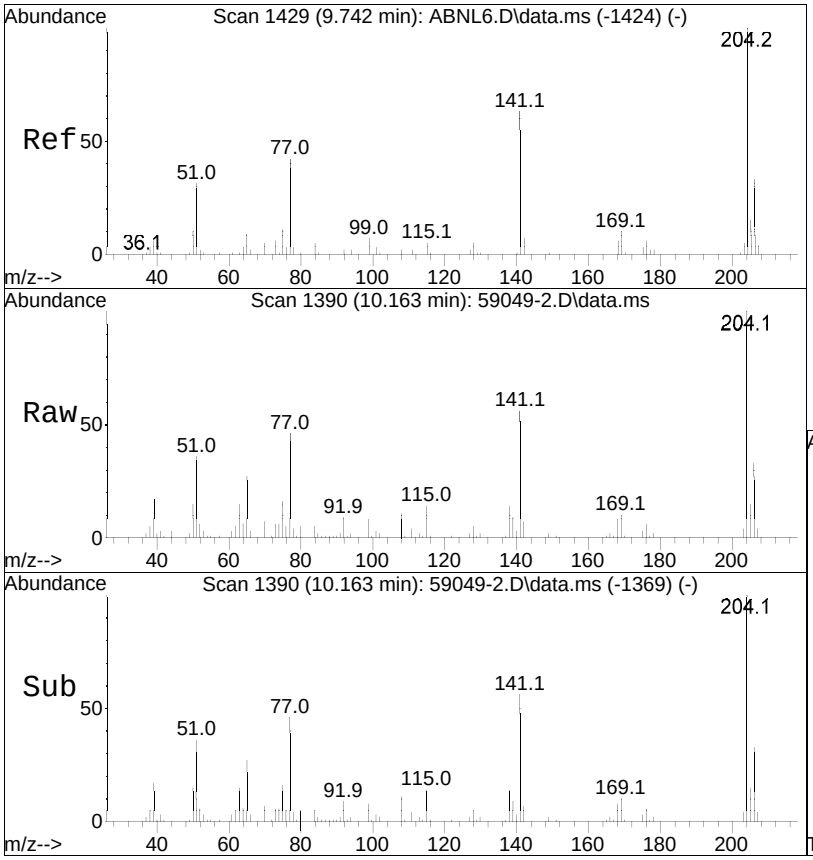


#71
Diethyl phthalate
Concen: 3.15 ug/ml
RT: 10.081 min Scan# 1376
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:149 Resp: 62557

Ion	Ratio	Lower	Upper
149	100		
177	21.4	16.1	24.1
150	12.0	9.4	14.2

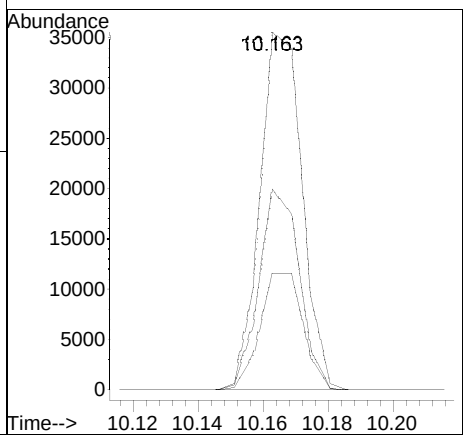


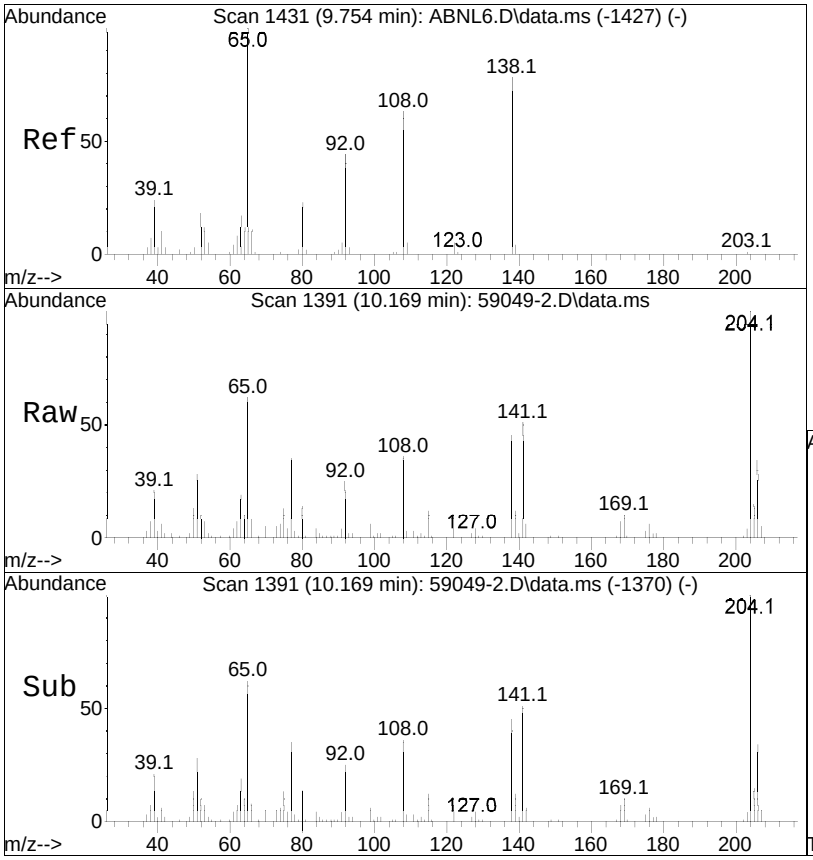


#73
4-Chlorophenyl phenyl ether
Concen: 3.24 ug/ml
RT: 10.163 min Scan# 1390
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:204 Resp: 31817

Ion	Ratio	Lower	Upper
204	100		
206	33.6	25.8	38.6
141	53.9	53.6	80.4

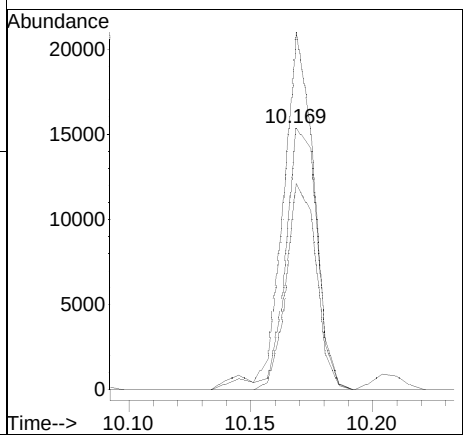


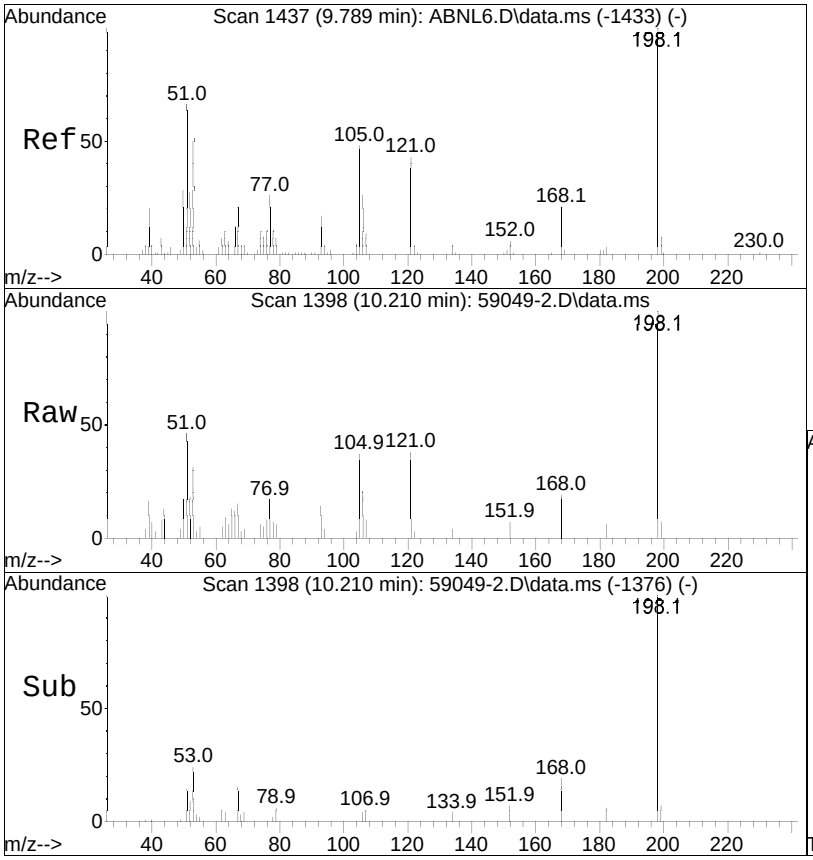


#74
4-Nitroaniline
Concen: 3.15 ug/ml
RT: 10.169 min Scan# 1391
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:138 Resp: 14229

Ion	Ratio	Lower	Upper
138	100		
108	72.6	52.1	78.1
65	128.9	115.0	172.6

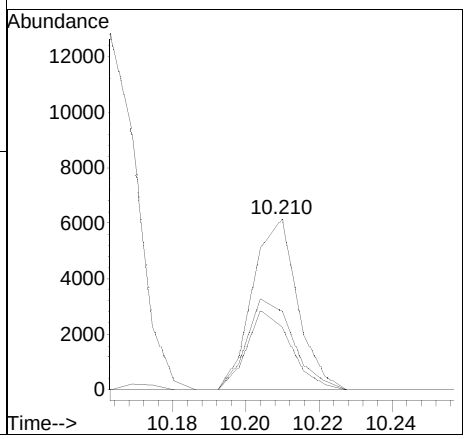


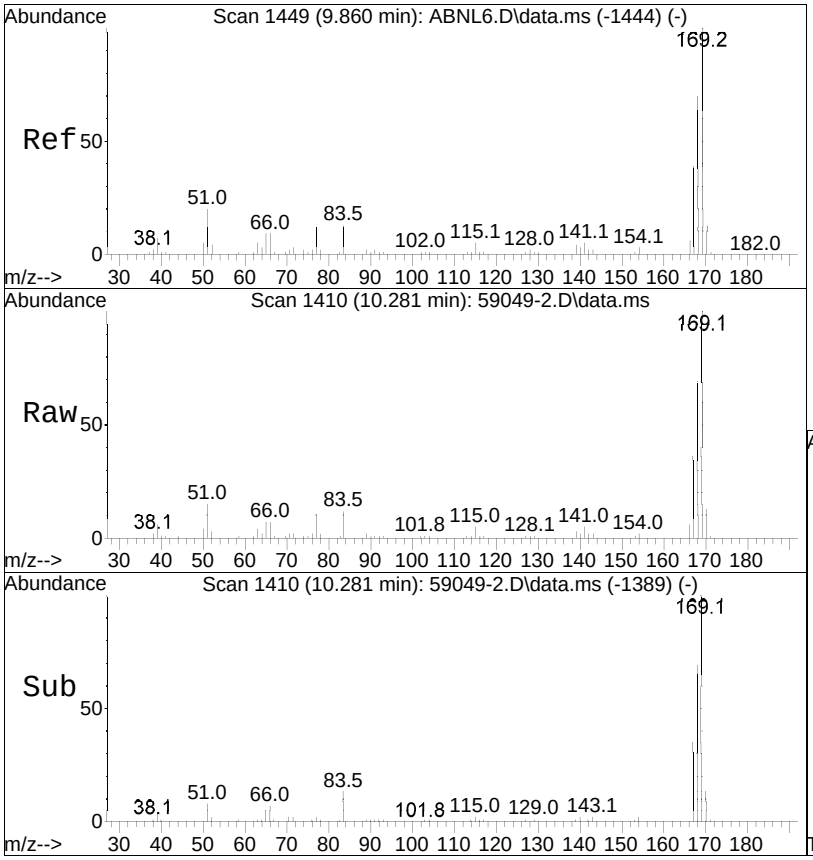


#75
4,6-Dinitro-o-cresol
Concen: 2.37 ug/ml
RT: 10.210 min Scan# 1398
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:198 Resp: 5265

Ion	Ratio	Lower	Upper
198	100		
51	55.2	76.0	114.0#
105	45.2	45.6	68.4#

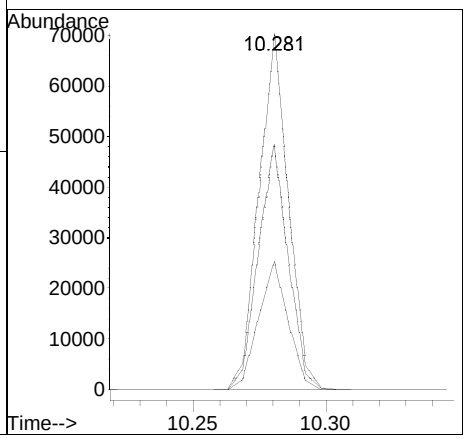


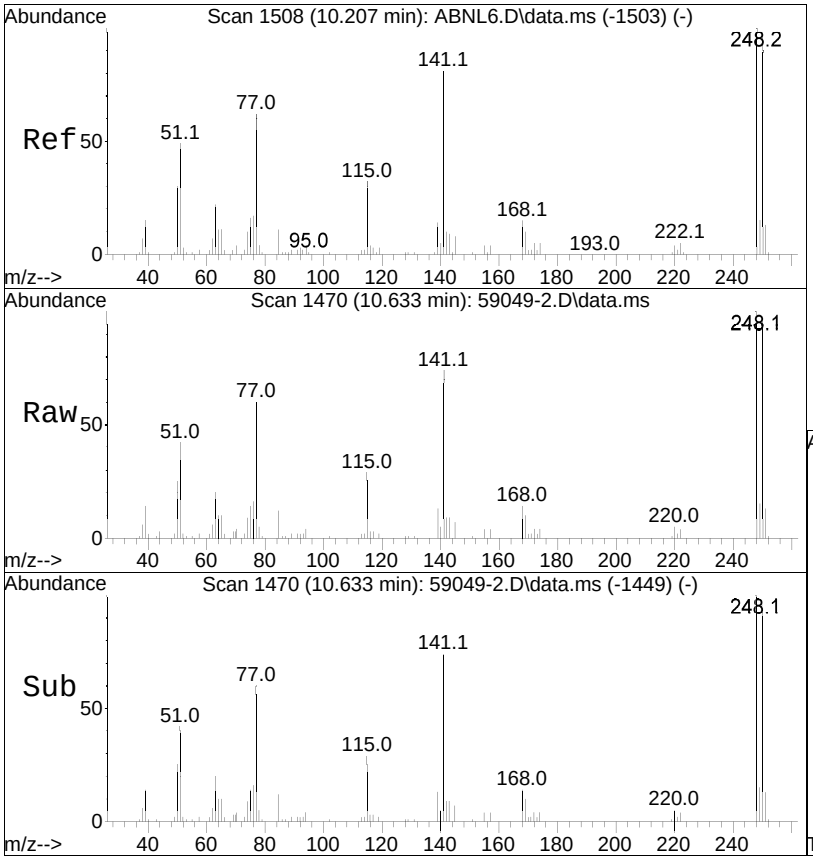


#76
NDPA/DPA
Concen: 3.33 ug/ml
RT: 10.281 min Scan# 1410
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:169 Resp: 53883

Ion	Ratio	Lower	Upper
169	100		
168	69.8	54.0	81.0
167	36.5	28.6	42.8

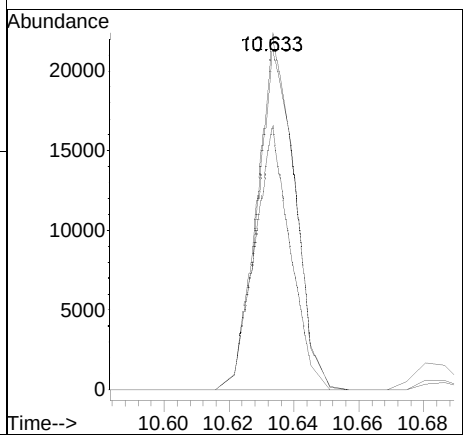


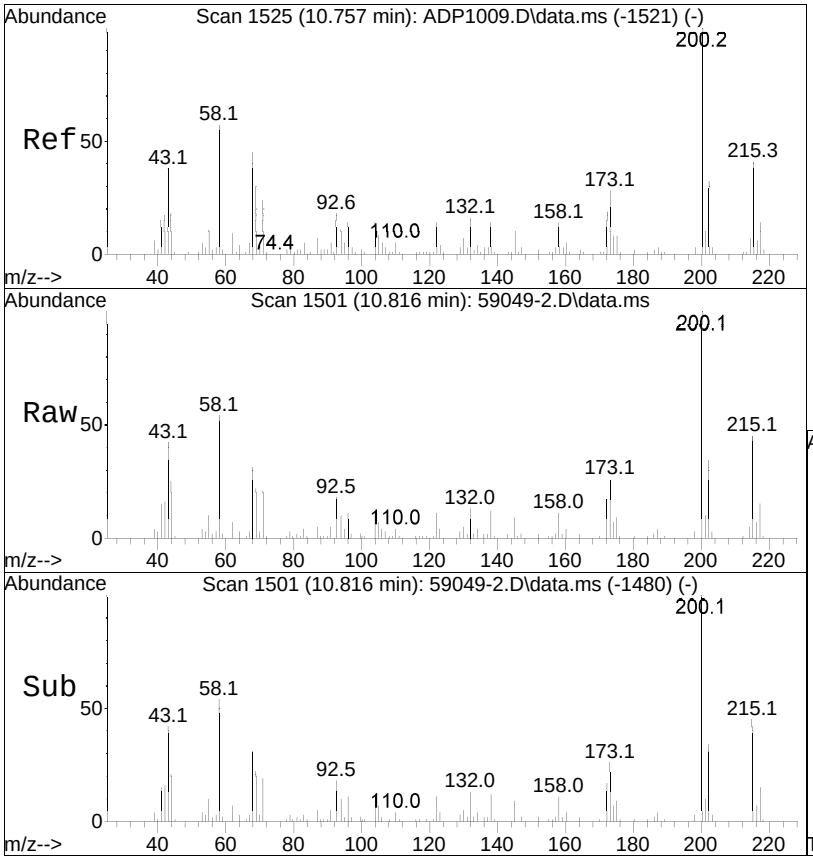


#79
4-Bromophenyl phenyl ether
Concen: 3.37 ug/ml
RT: 10.633 min Scan# 1470
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:248 Resp: 17614

Ion	Ratio	Lower	Upper
248	100		
141	71.0	76.6	114.8#
250	97.1	77.3	115.9

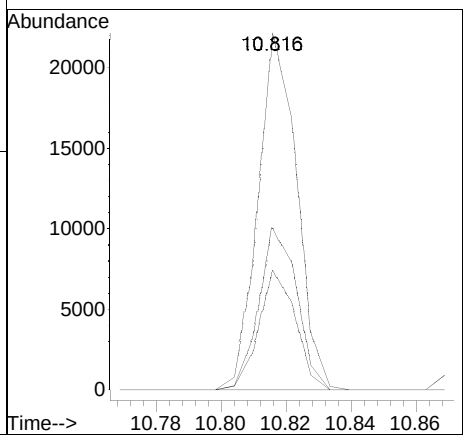


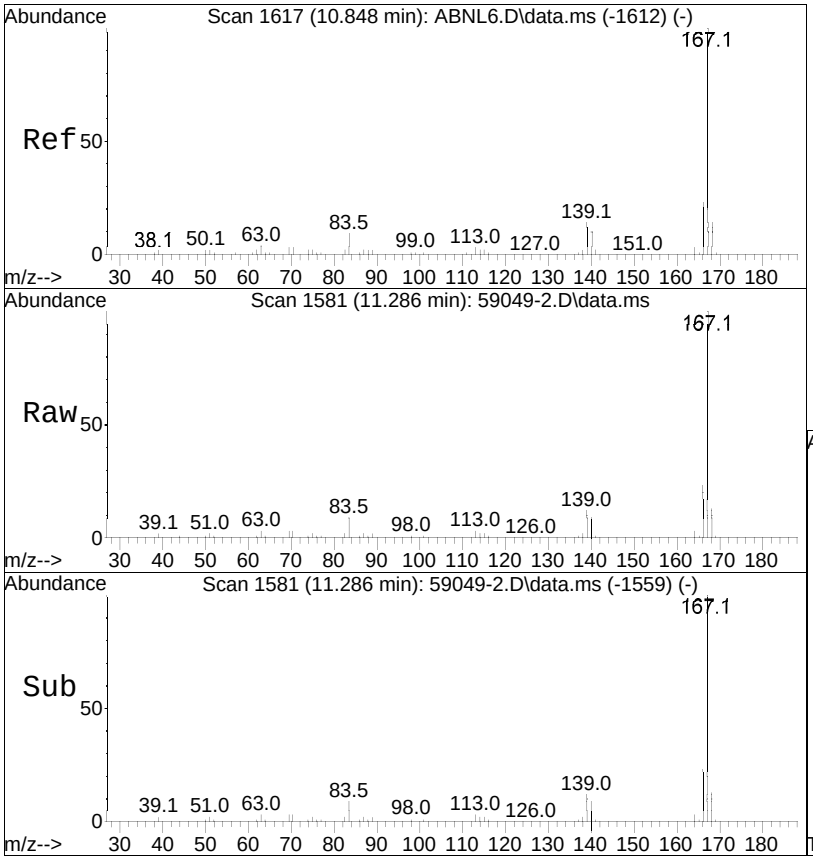


#86
Atrazine
Concen: 3.49 ug/ml
RT: 10.816 min Scan# 1501
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:200 Resp: 18152

Ion	Ratio	Lower	Upper
200	100		
202	31.9	25.8	38.6
215	44.8	40.2	60.4

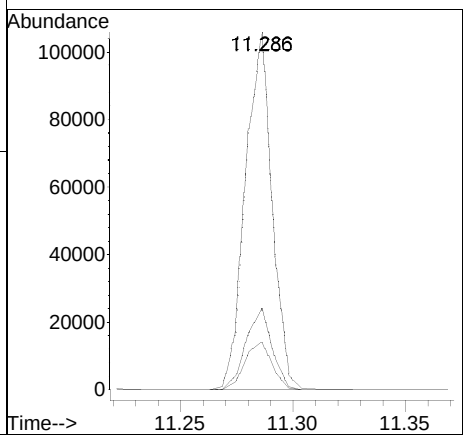


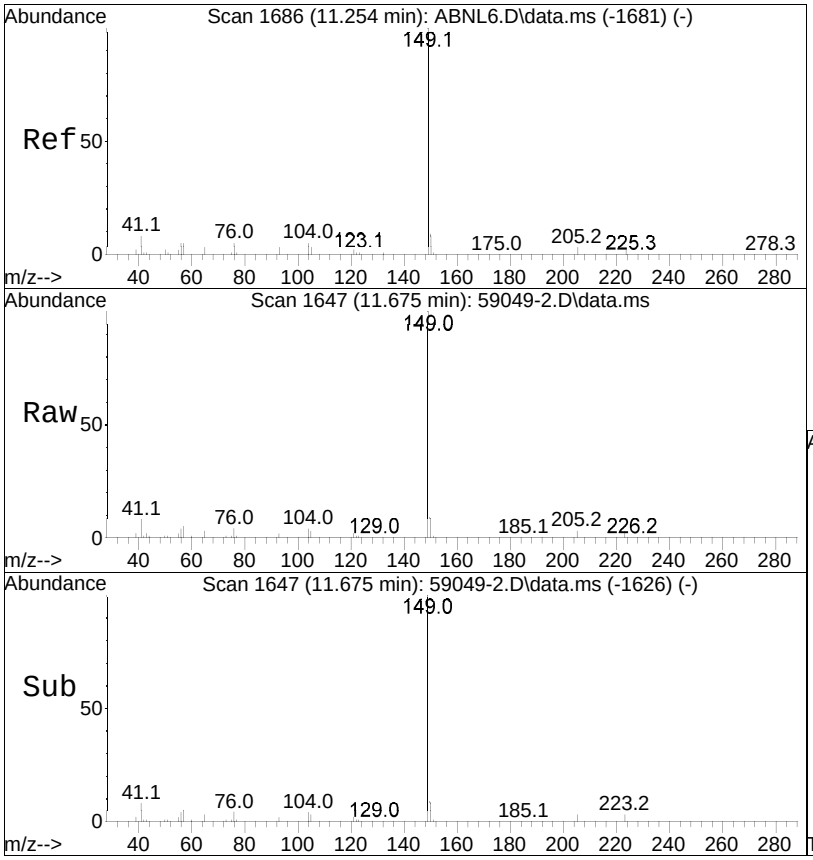


#90
Carbazole
Concen: 3.12 ug/ml
RT: 11.286 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:167 Resp: 86353

Ion	Ratio	Lower	Upper
167	100		
168	13.9	10.6	15.8
166	22.6	17.4	26.0

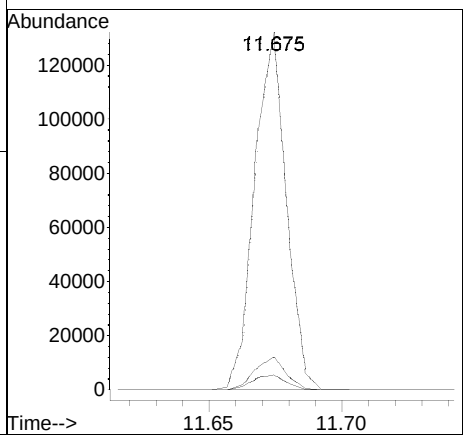


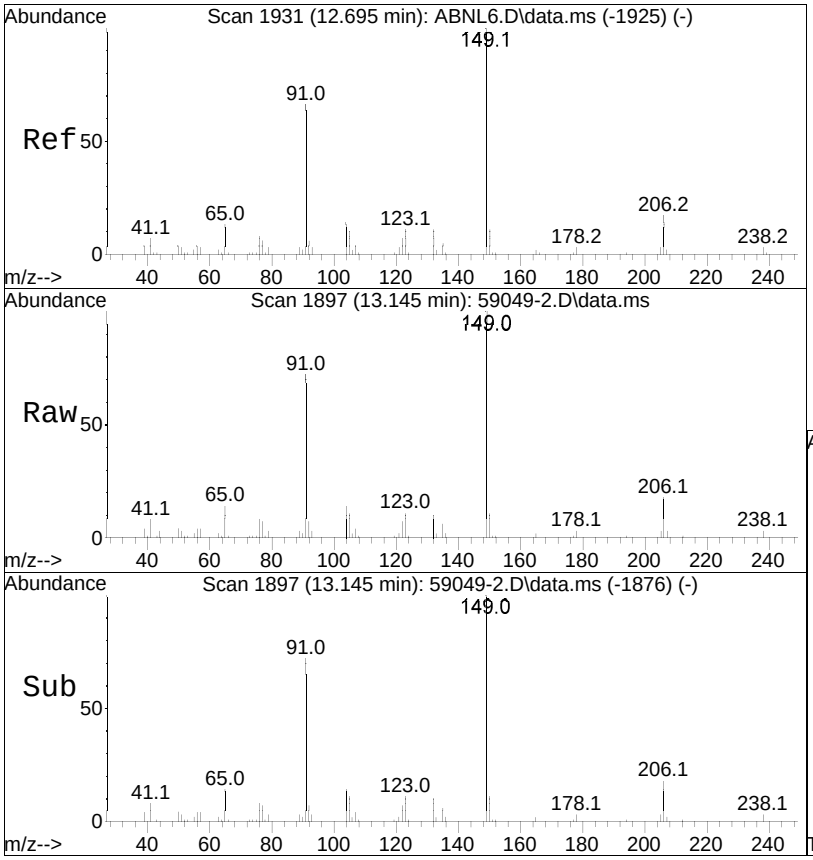


#91
Di-n-butylphthalate
Concen: 3.09 ug/ml
RT: 11.675 min Scan# 1647
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:149 Resp: 107927

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.0	10.6
104	4.5	4.5	6.7#

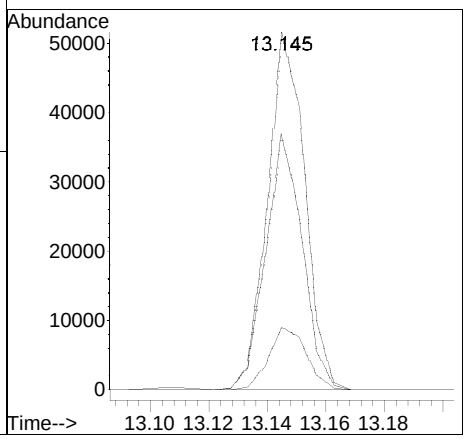


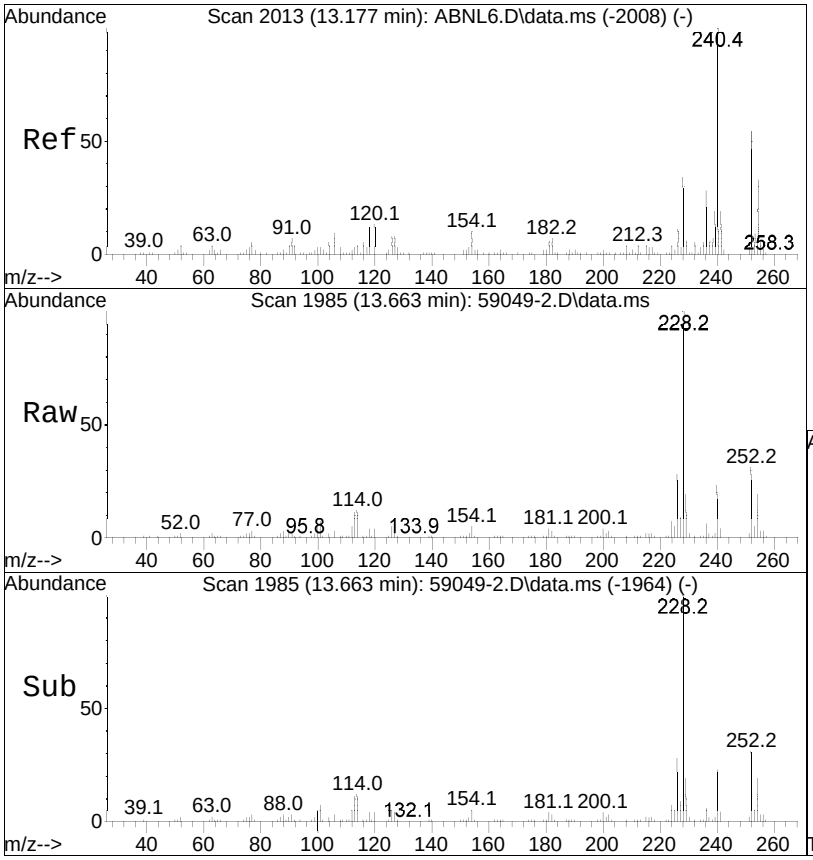


#96
Butyl benzyl phthalate
Concen: 3.25 ug/ml
RT: 13.145 min Scan# 1897
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:149 Resp: 45208

Ion	Ratio	Lower	Upper
149	100		
91	70.2	63.3	94.9
206	17.8	13.9	20.9

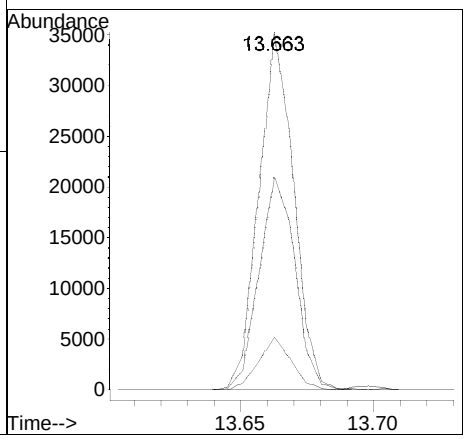


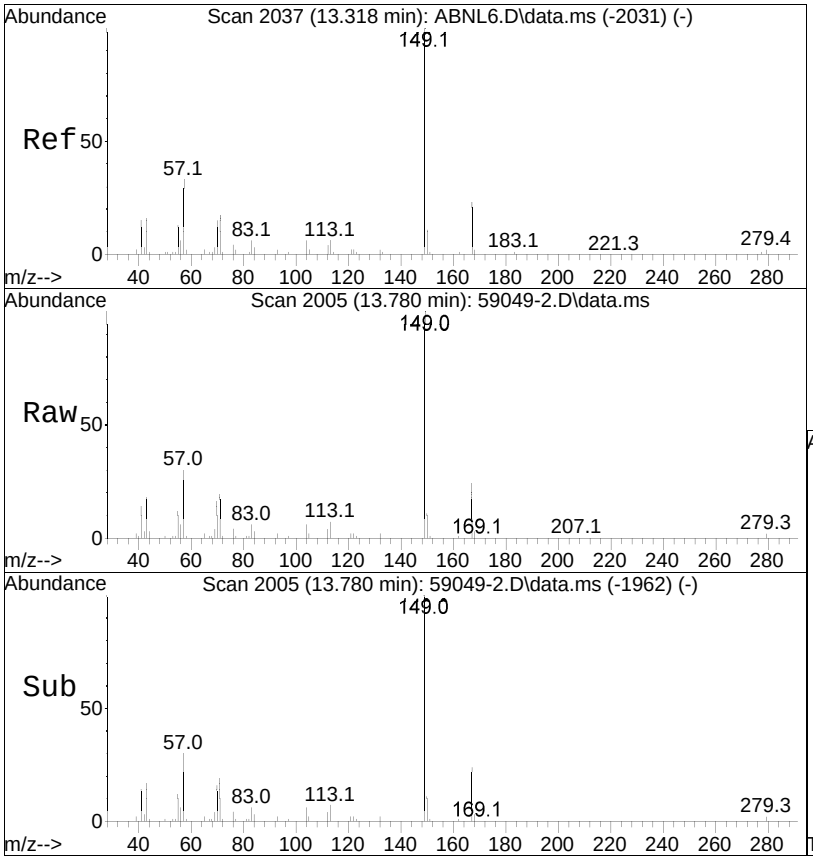


#105
3,3'-Dichlorobenzidine
Concen: 2.98 ug/ml
RT: 13.663 min Scan# 1985
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:252 Resp: 31816

Ion	Ratio	Lower	Upper
252	100		
126	14.0	14.5	21.7#
254	61.6	51.2	76.8

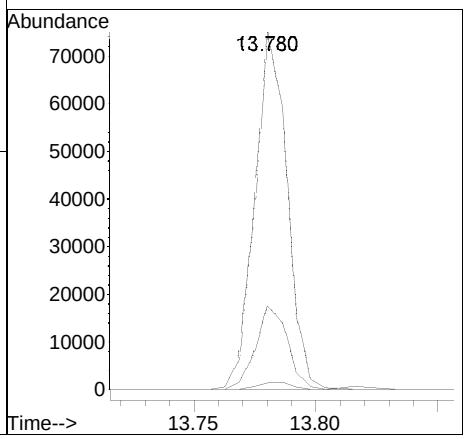


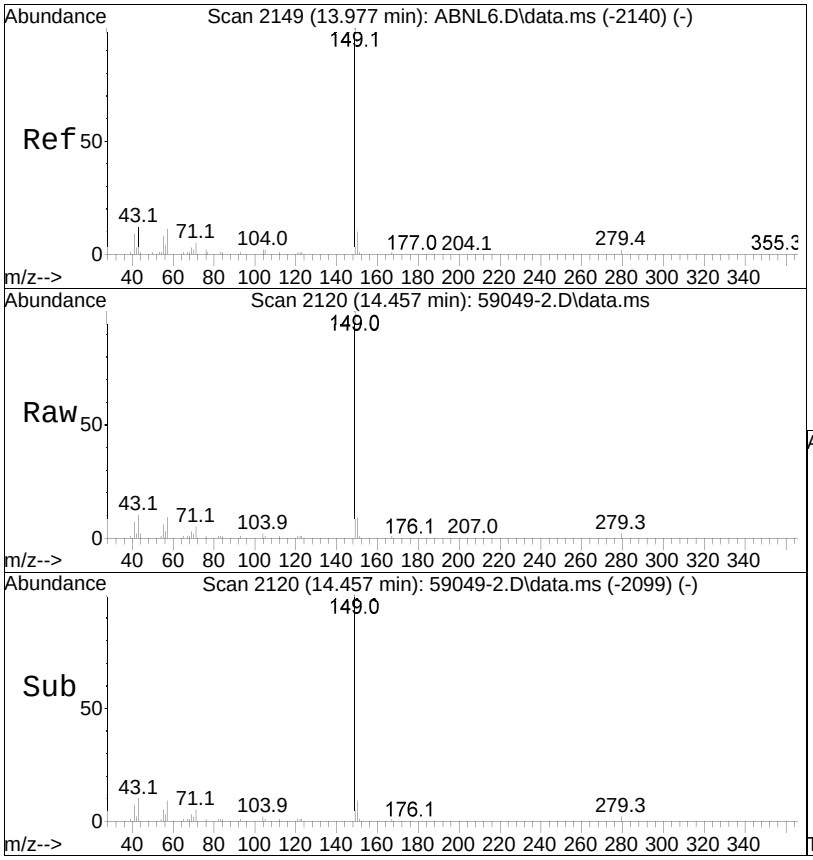


#107
Bis(2-ethylhexyl)phthalate
Concen: 3.49 ug/ml
RT: 13.780 min Scan# 2005
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:149 Resp: 68352

Ion	Ratio	Lower	Upper
149	100		
167	23.1	22.1	33.1
279	1.9	3.0	4.4#

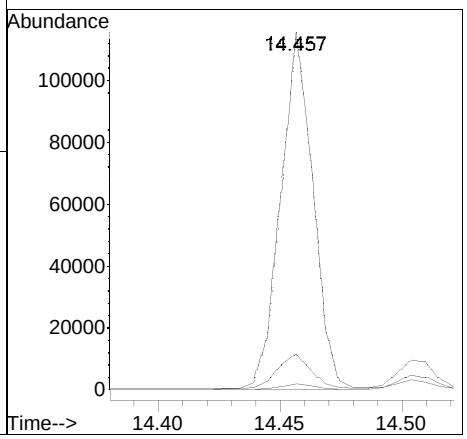




#108
Di-n-octylphthalate
Concen: 3.37 ug/ml
RT: 14.457 min Scan# 2120
Delta R.T. 0.000 min
Lab File: 59049-2.D
Acq: 6 Dec 2023 5:30 pm

Tgt Ion:149 Resp: 105613

Ion	Ratio	Lower	Upper
149	100		
43	10.0	18.8	28.2#
167	1.4	1.3	1.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231206lvi\
Data File : 59049-3.D
Acq On : 6 Dec 2023 5:56 pm
Operator : SV107:sz
Sample : WG1859049-3,32,,rv
Misc : WG1860349,WG1859049,ical20485
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 18:18:49 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 18:15:51 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\231206lvi\ABN1206.D
: 2 - I:\8270\sv107\231206lvi\ADP1206.D
: 3 - I:\8270\sv107\231206lvi\AP91206.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	6.434	152	29934	4.000	ug/ml	0.00
Standard Area 1 = 27238			Recovery = 109.90%			
27) IS2_1,4-Dichlorobenzen...	6.434	152	29934	4.000	ug/ml	0.00
Standard Area 3 = 28172			Recovery = 106.25%			
32) IS3_1,4-Dichlorobenzen...	6.434	152	29934	4.000	ug/ml	0.00
Standard Area 2 = 32258			Recovery = 92.80%			
34) IS1_Naphthalene-d8	7.857	136	112531	4.000	ug/ml	0.00
Standard Area 1 = 101480			Recovery = 110.89%			
54) IS2_Naphthalene-d8	7.857	136	112531	4.000	ug/ml	0.00
Standard Area 3 = 105283			Recovery = 106.88%			
62) IS1_Acenaphthene-d10	9.610	164	65274	4.000	ug/ml	0.00
Standard Area 1 = 59826			Recovery = 109.11%			
82) IS2_Acenaphthene-d10	9.610	164	65274	4.000	ug/ml	0.00
Standard Area 3 = 58558			Recovery = 111.47%			
85) IS3_Acenaphthene-d10	9.610	164	65274	4.000	ug/ml	0.00
Standard Area 2 = 65135			Recovery = 100.21%			
87) IS1_Phenanthrene-d10	11.045	188	128929	4.000	ug/ml	0.00
Standard Area 1 = 118224			Recovery = 109.05%			
99) IS3_Phenanthrene-d10	11.045	188	128929	4.000	ug/ml	0.00
Standard Area 2 = 127858			Recovery = 100.84%			
103) IS1_Chrysene-d12	13.674	240	100109	4.000	ug/ml	0.00
Standard Area 1 = 99775			Recovery = 100.33%			
112) IS1_Perylene-d12	15.133	264	101566	4.000	ug/ml	0.00
Standard Area 1 = 100806			Recovery = 100.75%			
System Monitoring Compounds						
4) 2-Fluorophenol	4.534	112	21922	2.713	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 54.26%			
7) Phenol-d6	6.069	99	23527	2.312	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 46.24%			
19) Nitrobenzene-d5	7.087	82	13655	1.417	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 56.68%			
45) 2-Fluorobiphenyl	8.975	172	32432	1.414	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 56.56%			
78) 2,4,6-Tribromophenol	10.381	330	6685	2.737	ug/ml	0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 54.74%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231206lvi\
Data File : 59049-3.D
Acq On : 6 Dec 2023 5:56 pm
Operator : SV107:sz
Sample : WG1859049-3,32,,rv
Misc : WG1860349,WG1859049,ical20485
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 18:18:49 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 18:15:51 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\231206lvi\ABN1206.D
: 2 - I:\8270\sv107\231206lvi\ADP1206.D
: 3 - I:\8270\sv107\231206lvi\AP91206.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 4-Terphenyl-d14	12.622	244	36237	1.372	ug/ml	0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 54.88%			
Target Compounds						Qvalue
6) 2-Chlorophenol	6.175	128	26269	2.945	ug/ml	95
8) Phenol	6.081	94	26120	2.394	ug/ml	95
9) Bis(2-chloroethyl)ether	6.157	93	26224	2.898	ug/ml#	81
14) Bis(2-chloroisopropyl)...	6.822	45	45427	2.479	ug/ml#	67
15) 2-Methylphenol	6.816	108	22919	2.948	ug/ml	99
17) n-Nitrosodi-n-propylamine	6.963	70	19348	2.891	ug/ml#	91
18) 3-Methylphenol/4-Methy...	6.998	108	23497	2.809	ug/ml	96
20) Nitrobenzene	7.110	77	28023	2.827	ug/ml	99
21) Isophorone	7.387	82	50559	2.909	ug/ml	97
22) 2-Nitrophenol	7.469	139	13700	3.003	ug/ml	93
23) 2,4-Dimethylphenol	7.569	107	19147	2.123	ug/ml	98
24) Bis(2-chloroethoxy)met...	7.657	93	34546	2.879	ug/ml#	97
25) 2,4-Dichlorophenol	7.734	162	24834	3.076	ug/ml	96
28) Benzaldehyde	5.863	105	22259	3.201	ug/ml	99
29) Acetophenone	6.928	105	39613	3.125	ug/ml#	83
37) 4-Chloroaniline	7.957	65	6254	1.618	ug/ml	97
39) p-Chloro-m-cresol	8.487	107	22580	2.878	ug/ml	99
42) Hexachlorocyclopentadiene	8.769	237	10976	1.752	ug/ml	98
43) 2,4,6-Trichlorophenol	8.886	196	18604	3.142	ug/ml	98
44) 2,4,5-Trichlorophenol	8.916	196	19477	3.031	ug/ml	98
47) 2-Nitroaniline	9.181	138	16165	3.028	ug/ml	92
50) Dimethyl phthalate	9.386	163	65026	2.839	ug/ml#	98
52) 2,6-Dinitrotoluene	9.428	165	13151	2.799	ug/ml#	77
59) Caprolactam	8.275	55	5812	1.069	ug/ml#	81
60) 1,2,4,5-Tetrachloroben...	8.763	216	29528	3.171	ug/ml	97
61) Biphenyl	9.063	154	70285	3.071	ug/ml	99
63) 3-Nitroaniline	9.581	138	12613	2.529	ug/ml#	96
65) 2,4-Dinitrophenol	9.686	184	3107	2.180	ug/ml	89
66) Dibenzofuran	9.816	168	82818	3.035	ug/ml	93
67) 2,4-Dinitrotoluene	9.816	165	17578	2.724	ug/ml	93
68) 4-Nitrophenol	9.775	65	10239	2.036	ug/ml	91
70) 2,3,4,6-Tetrachlorophenol	9.945	232	15874	2.993	ug/ml	99
71) Diethyl phthalate	10.081	149	62817	2.878	ug/ml	99

Data Path : I:\8270\SV107\231206lvi\
Data File : 59049-3.D
Acq On : 6 Dec 2023 5:56 pm
Operator : SV107:sz
Sample : WG1859049-3,32,,rv
Misc : WG1860349,WG1859049,ical20485
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 18:18:49 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 18:15:51 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv107\231206lvi\ABN1206.D
: 2 - I:\8270\sv107\231206lvi\ADP1206.D
: 3 - I:\8270\sv107\231206lvi\AP91206.D
Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 4-Chlorophenyl phenyl ...	10.169	204	31902	2.950	ug/ml	88
74) 4-Nitroaniline	10.169	138	14312	2.882	ug/ml	87
75) 4,6-Dinitro-o-cresol	10.210	198	5648	2.335	ug/ml#	67
76) NDPA/DPA	10.281	169	53154	2.988	ug/ml	97
79) 4-Bromophenyl phenyl e...	10.633	248	17102	2.975	ug/ml#	87
86) Atrazine	10.816	200	17086	2.989	ug/ml	95
90) Carbazole	11.286	167	83957	2.828	ug/ml	98
91) Di-n-butylphthalate	11.675	149	102371	2.739	ug/ml#	99
96) Butyl benzyl phthalate	13.145	149	41041	2.858	ug/ml	95
105) 3,3'-Dichlorobenzidine	13.663	252	30582	2.646	ug/ml#	97
107) Bis(2-ethylhexyl)phtha...	13.780	149	62237	2.980	ug/ml#	92
108) Di-n-octylphthalate	14.457	149	99153	3.021	ug/ml#	75

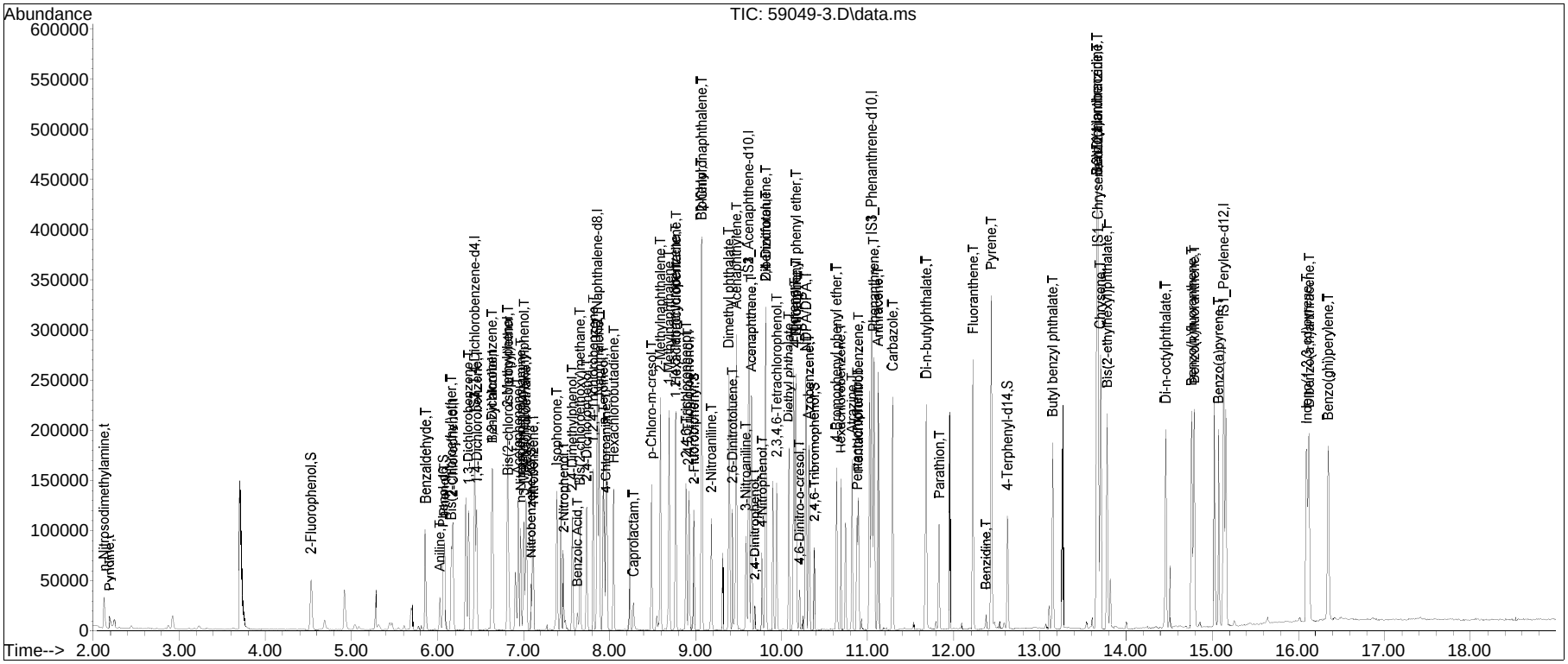
(#) = qualifier out of range (m) = manual integration (+) = signals summed

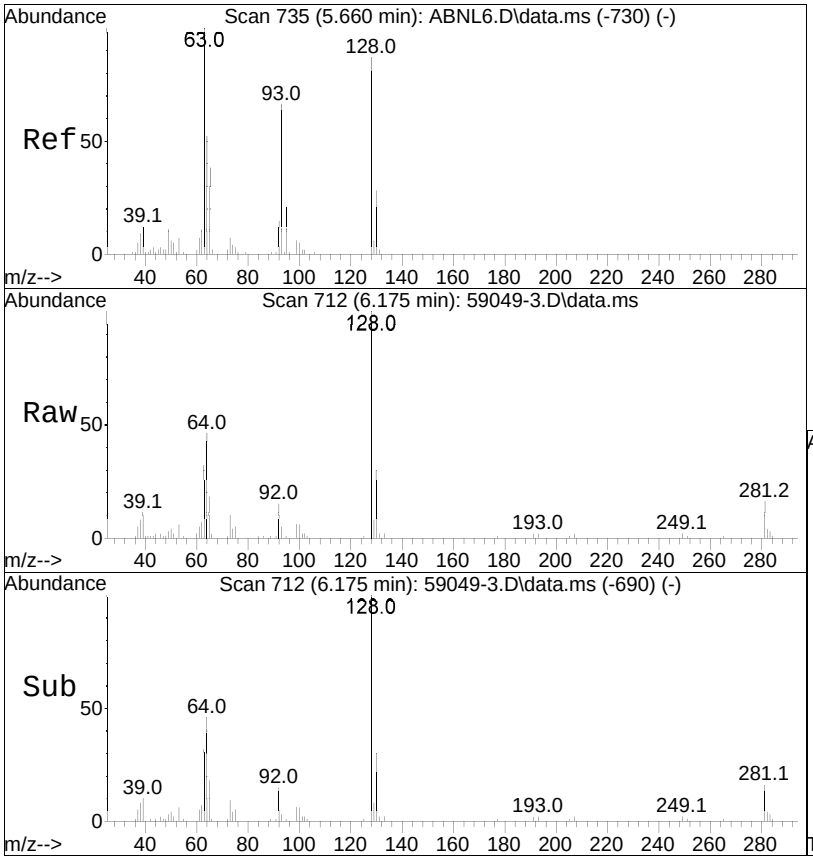
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV107\231206lvi\
Data File : 59049-3.D
Acq On : 6 Dec 2023 5:56 pm
Operator : SV107:sz
Sample : WG1859049-3,32,,rv
Misc : WG1860349,WG1859049,ical20485
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 18:18:49 2023
Quant Method : I:\8270\sv107\231206lvi\FS231025SV107.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 18:15:51 2023
Response via : Initial Calibration

Sub List : 8270TCL_REV2 - TCL/CT/MAlvi\AP91206.D•

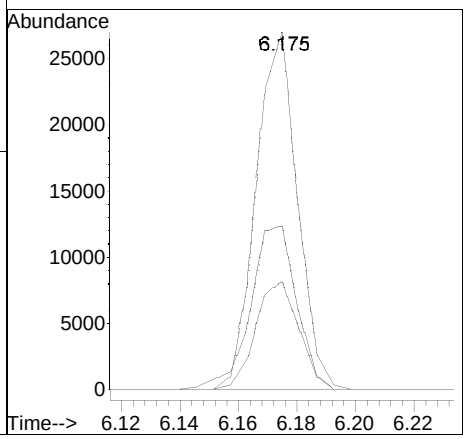


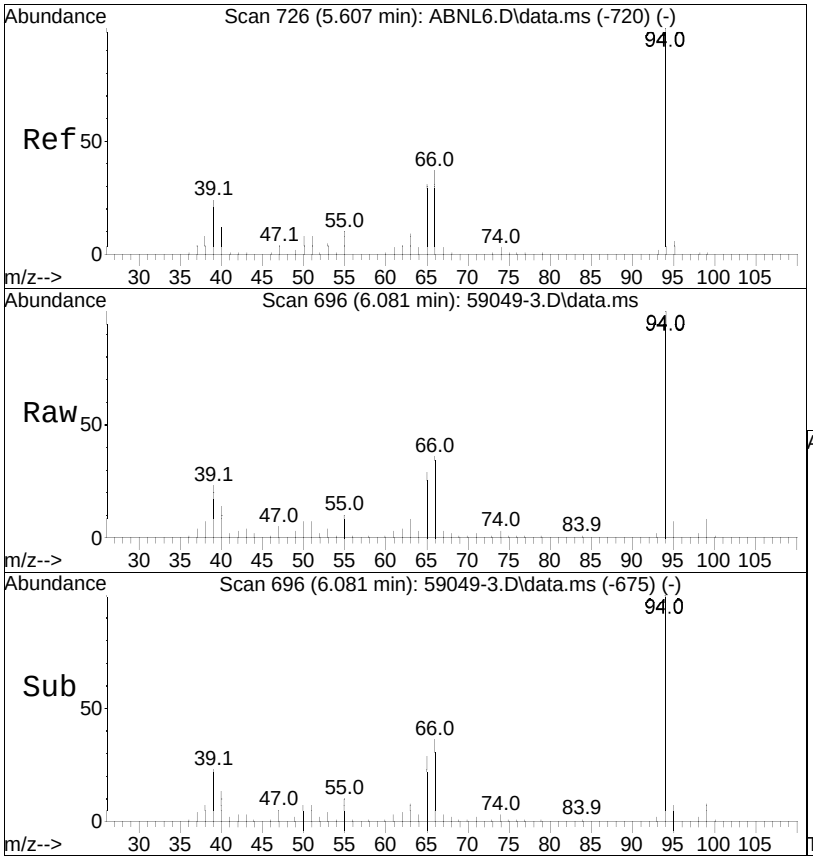


#6
2-Chlorophenol
Concen: 2.95 ug/ml
RT: 6.175 min Scan# 712
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:128 Resp: 26269

Ion	Ratio	Lower	Upper
128	100		
64	51.2	45.1	67.7
130	31.8	26.2	39.4

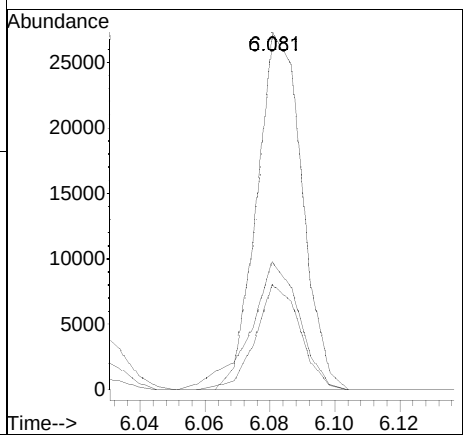


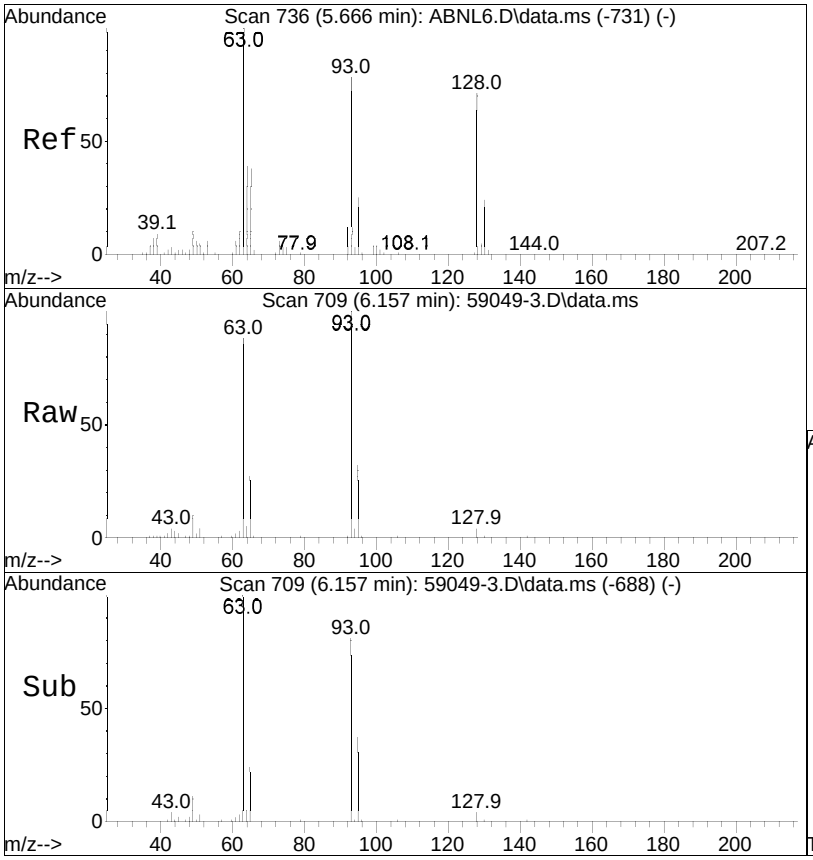


#8
Phenol
Concen: 2.39 ug/ml
RT: 6.081 min Scan# 696
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion: 94 Resp: 26120

Ion	Ratio	Lower	Upper
94	100		
65	29.1	26.0	39.0
66	39.4	33.8	50.8

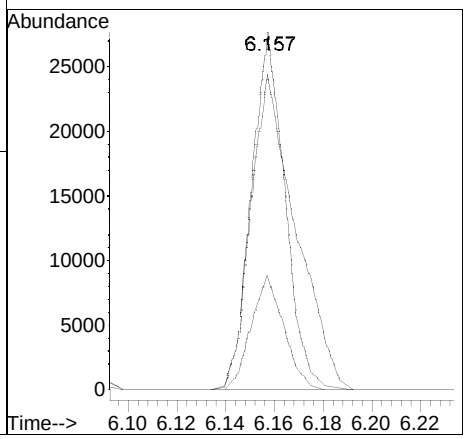


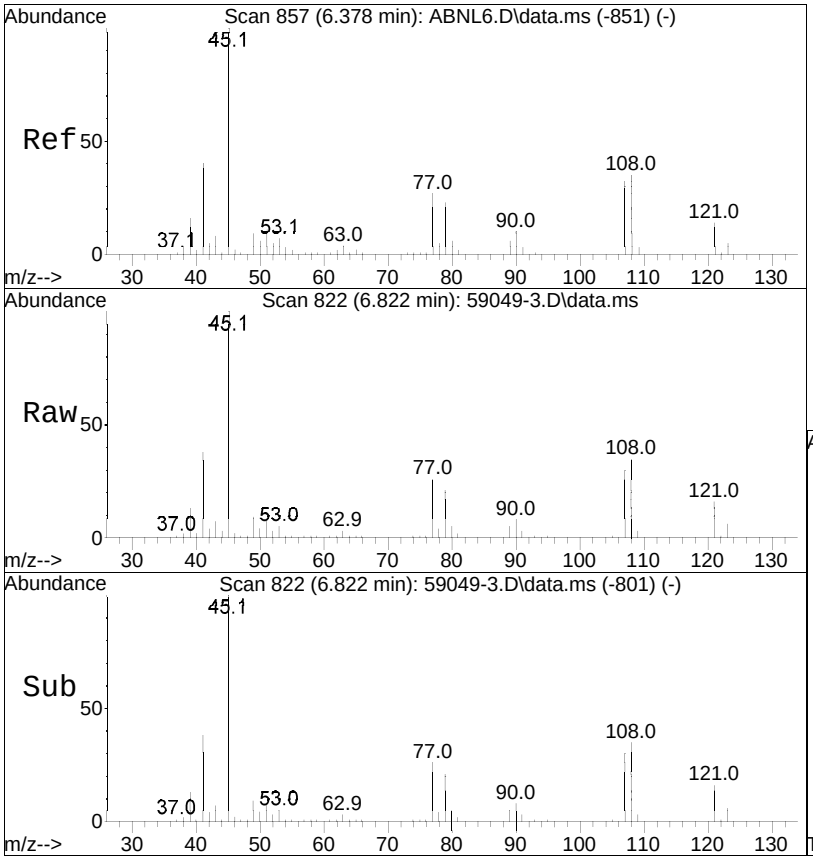


#9
Bis(2-chloroethyl)ether
Concen: 2.90 ug/ml
RT: 6.157 min Scan# 709
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion: 93 Resp: 26224

Ion	Ratio	Lower	Upper
93	100		
63	117.8	74.6	111.8#
95	31.2	25.9	38.9

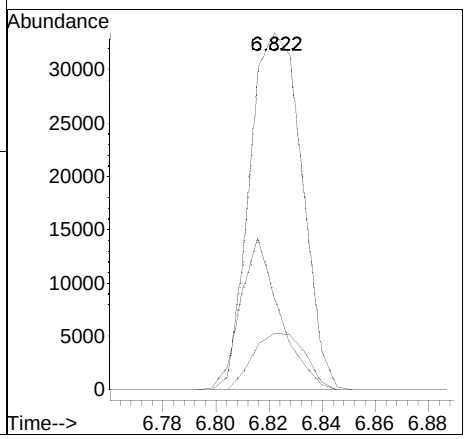


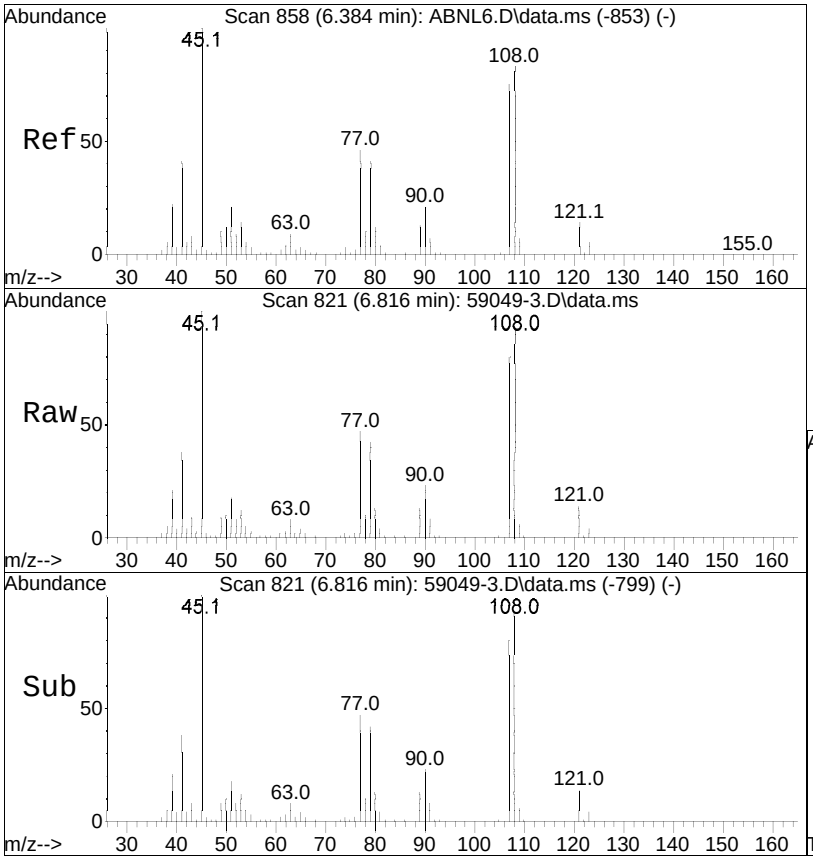


#14
Bis(2-chloroisopropyl)ether
Concen: 2.48 ug/ml
RT: 6.822 min Scan# 822
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion: 45 Resp: 45427

Ion	Ratio	Lower	Upper
45	100		
121	15.9	9.8	14.6#
77	32.2	6.1	9.1#

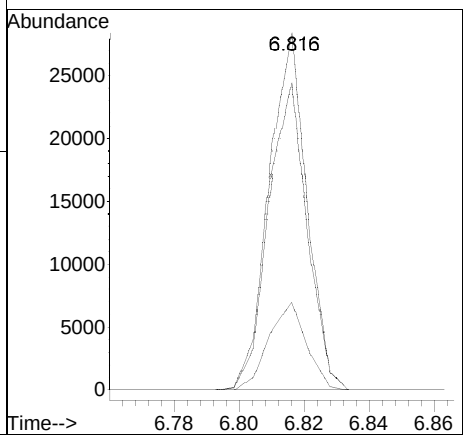


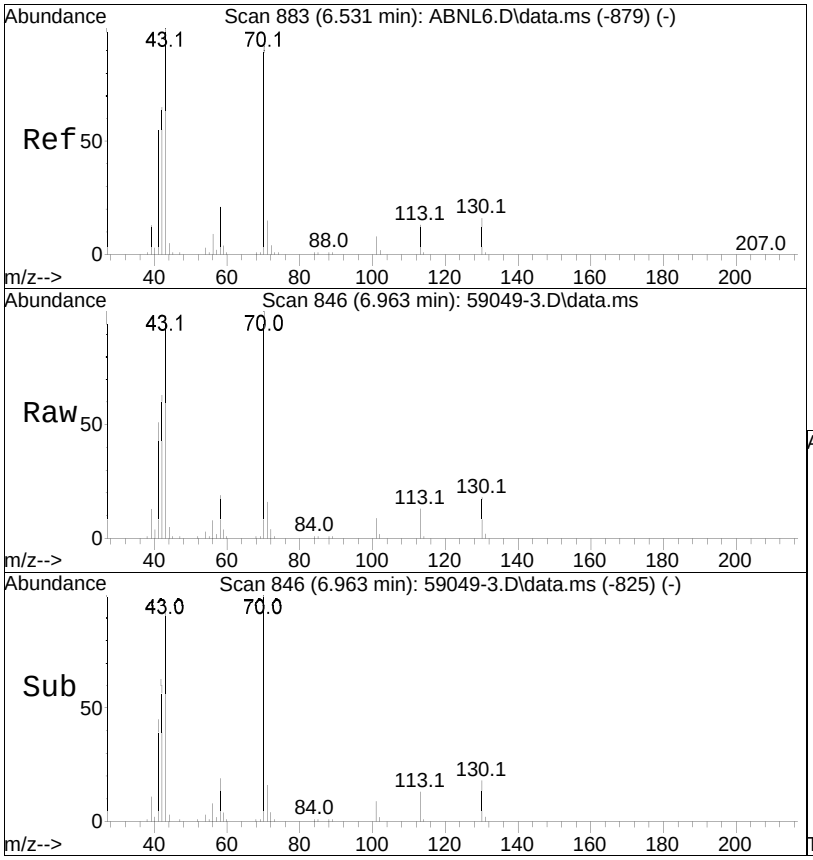


#15
2-Methylphenol
Concen: 2.95 ug/ml
RT: 6.816 min Scan# 821
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:108 Resp: 22919

Ion	Ratio	Lower	Upper
108	100		
107	87.7	70.7	106.1
90	24.4	18.7	28.1

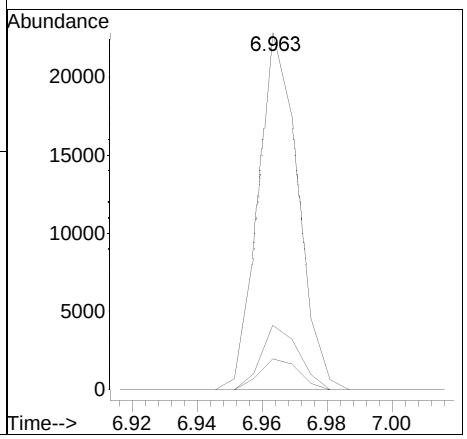


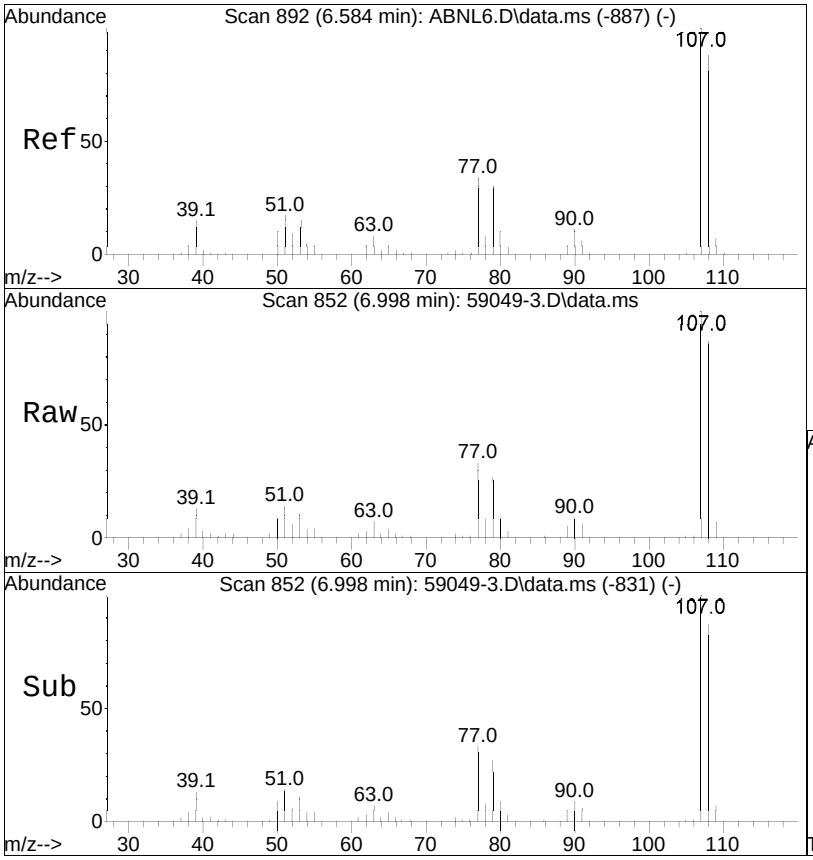


#17
n-Nitrosodi-n-propylamine
Concen: 2.89 ug/ml
RT: 6.963 min Scan# 846
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion: 70 Resp: 19348

Ion	Ratio	Lower	Upper
70	100		
130	17.0	18.2	27.4#
101	8.6	7.8	11.8

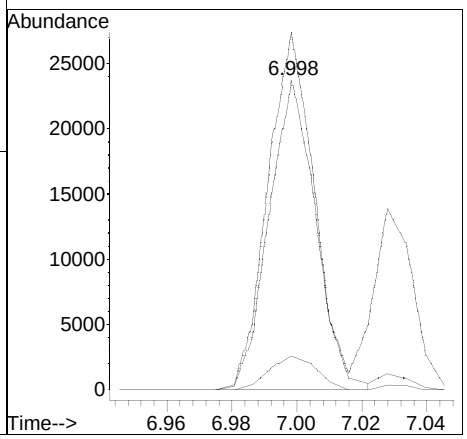


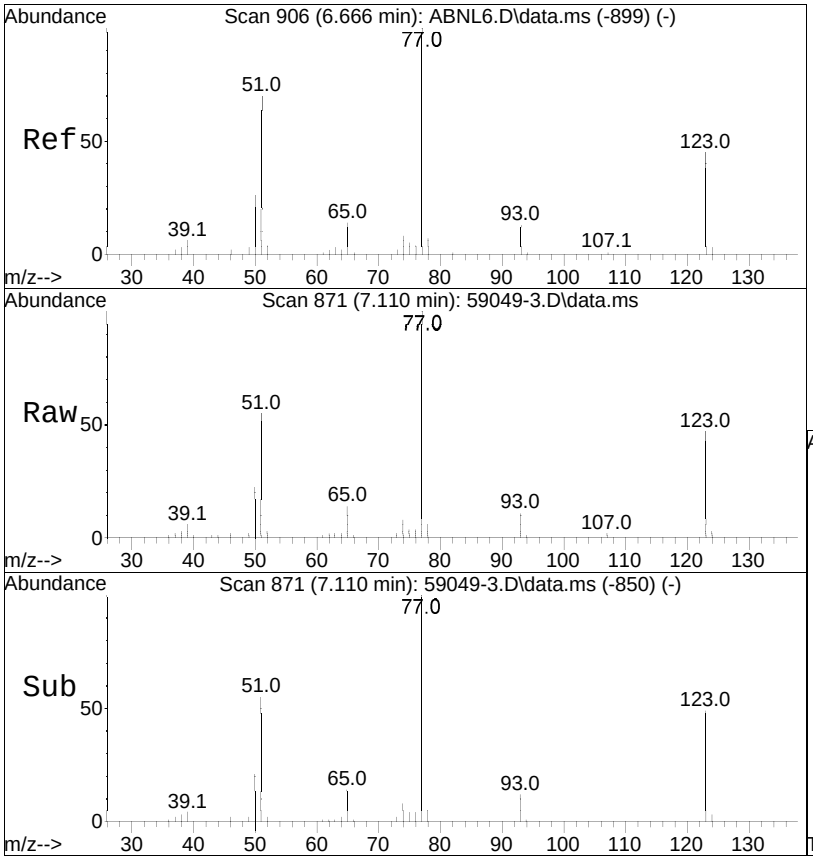


#18
3-Methylphenol/4-Methylphenol
Concen: 2.81 ug/ml
RT: 6.998 min Scan# 852
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:108 Resp: 23497

Ion	Ratio	Lower	Upper
108	100		
107	114.9	88.6	132.8
90	11.0	8.8	13.2

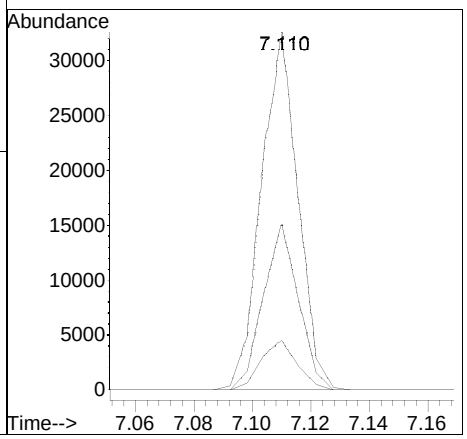


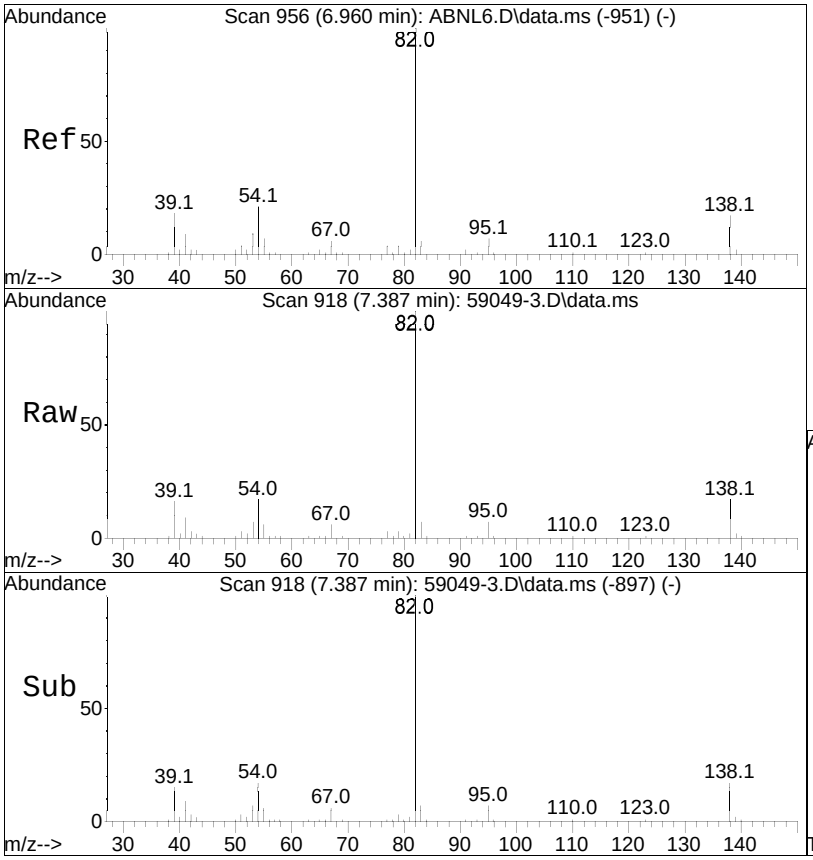


#20
Nitrobenzene
Concen: 2.83 ug/ml
RT: 7.110 min Scan# 871
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion: 77 Resp: 28023

Ion	Ratio	Lower	Upper
77	100		
123	44.7	36.3	54.5
65	13.8	11.6	17.4

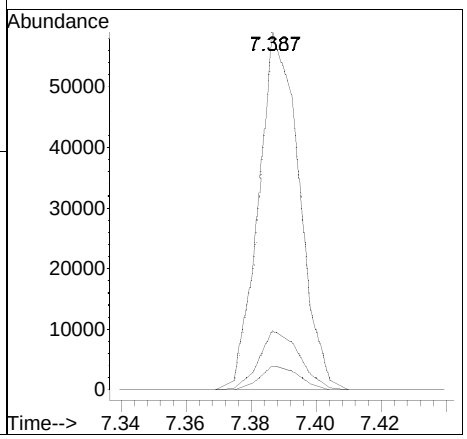


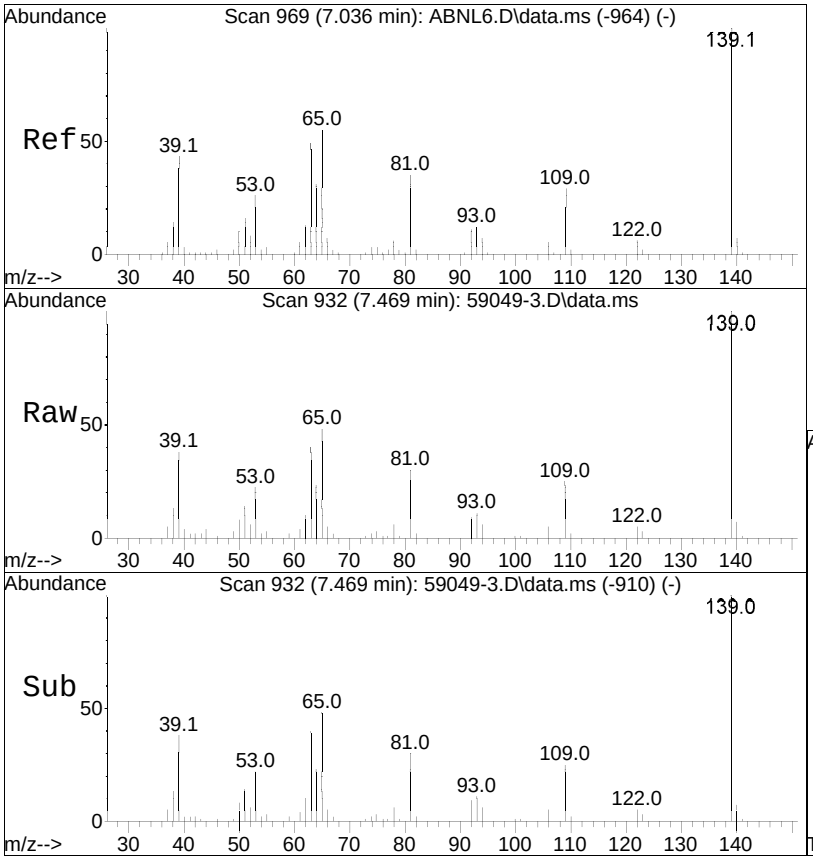


#21
Isophorone
Concen: 2.91 ug/ml
RT: 7.387 min Scan# 918
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion: 82 Resp: 50559

Ion	Ratio	Lower	Upper
82	100		
138	16.6	14.7	22.1
95	6.5	5.2	7.8

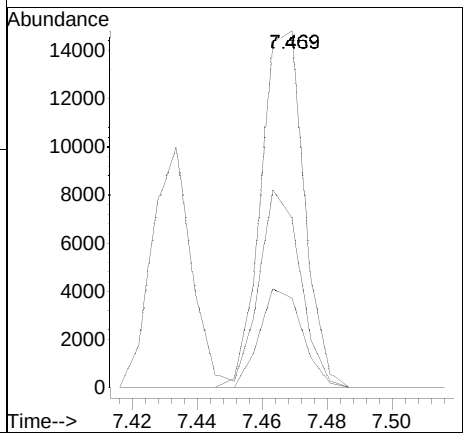


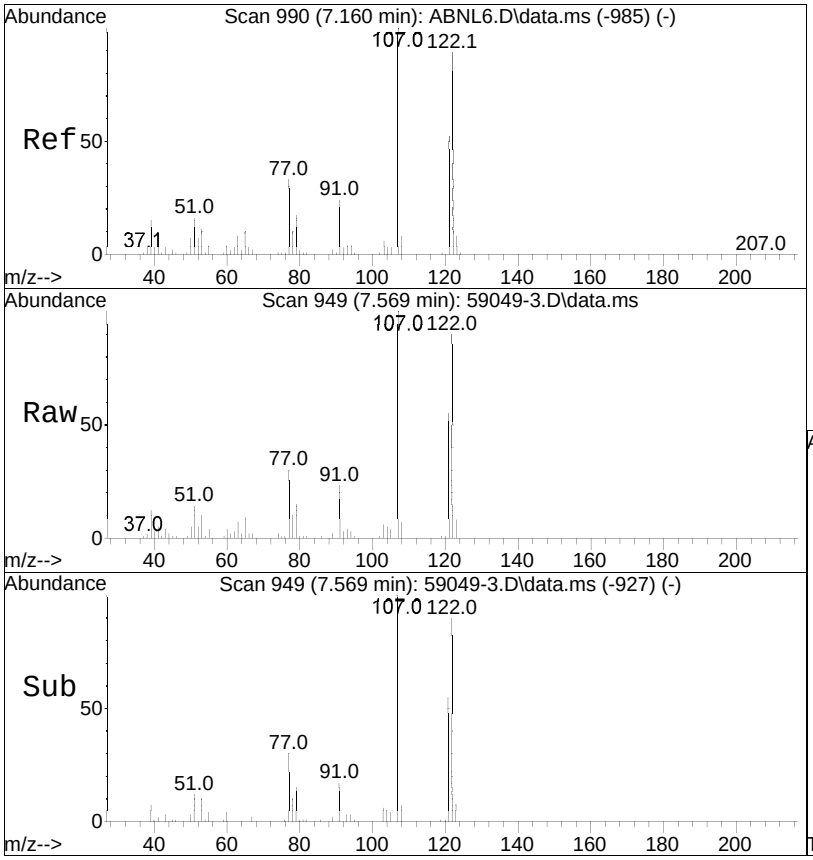


#22
2-Nitrophenol
Concen: 3.00 ug/ml
RT: 7.469 min Scan# 932
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:139 Resp: 13700

Ion	Ratio	Lower	Upper
139	100		
109	27.5	19.4	29.0
65	52.5	46.1	69.1

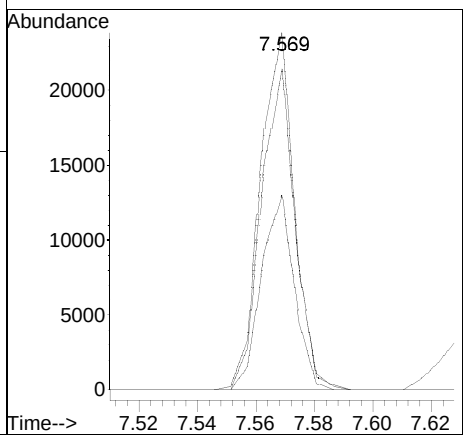


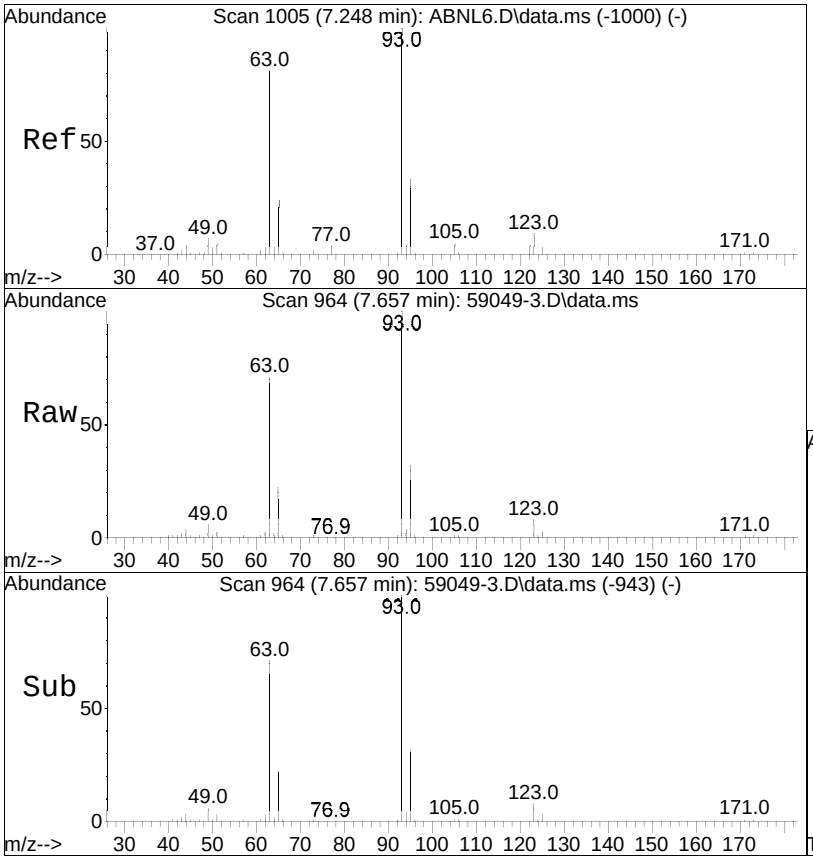


#23
2,4-Dimethylphenol
Concen: 2.12 ug/ml
RT: 7.569 min Scan# 949
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:107 Resp: 19147

Ion	Ratio	Lower	Upper
107	100		
121	52.9	40.0	60.0
122	89.1	70.2	105.4

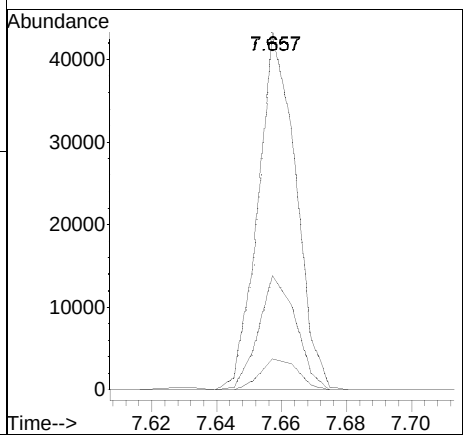


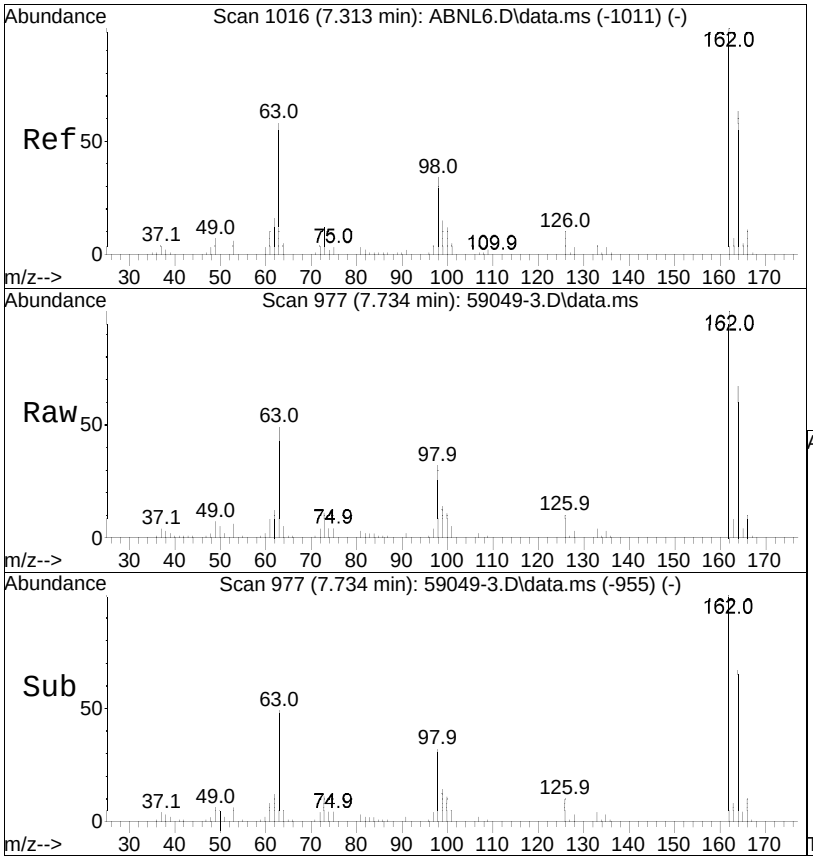


#24
Bis(2-chloroethoxy)methane
Concen: 2.88 ug/ml
RT: 7.657 min Scan# 964
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion: 93 Resp: 34546

Ion	Ratio	Lower	Upper
93	100		
95	31.8	25.8	38.8
123	8.7	10.1	15.1#

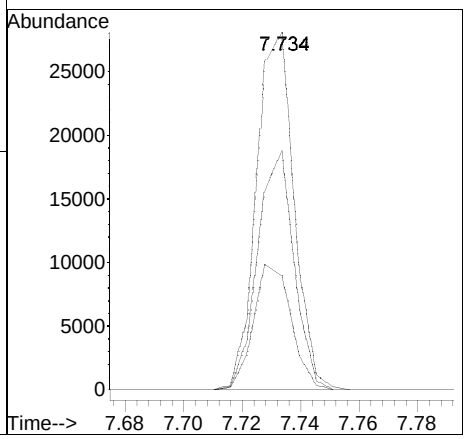


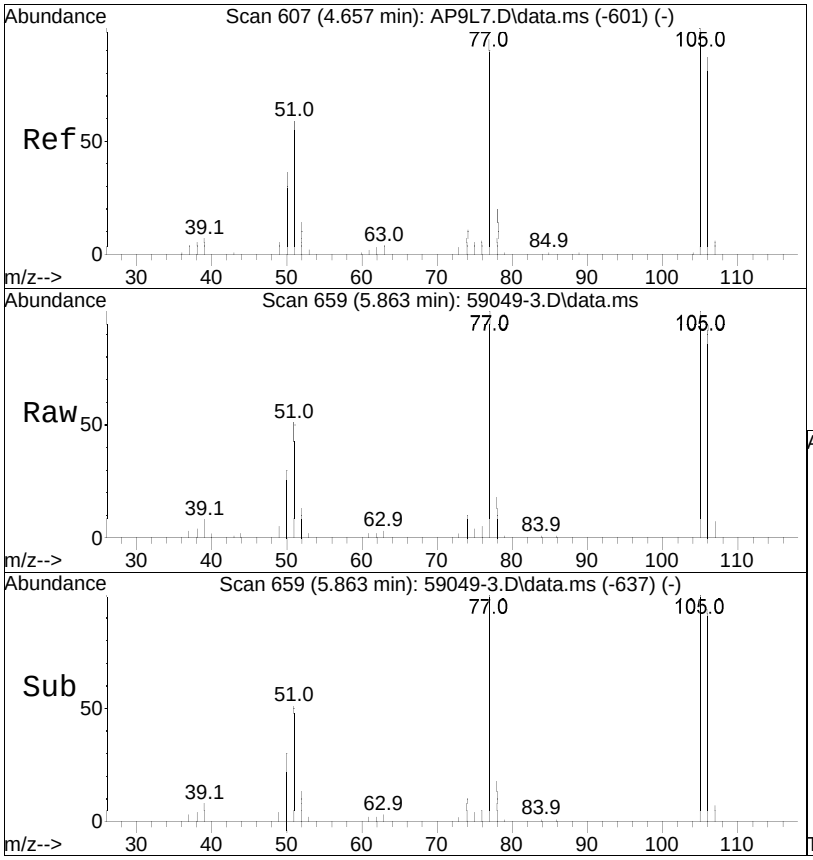


#25
2,4-Dichlorophenol
Concen: 3.08 ug/ml
RT: 7.734 min Scan# 977
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:162 Resp: 24834

Ion	Ratio	Lower	Upper
162	100		
164	64.7	51.0	76.4
98	35.4	32.2	48.2

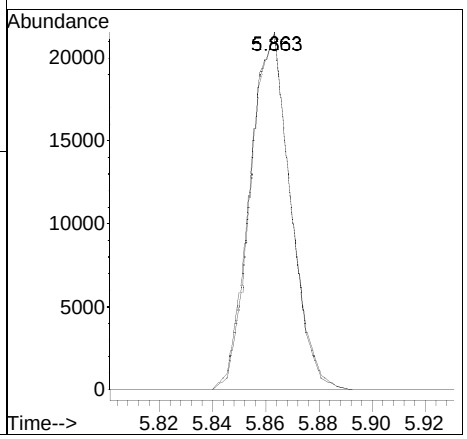


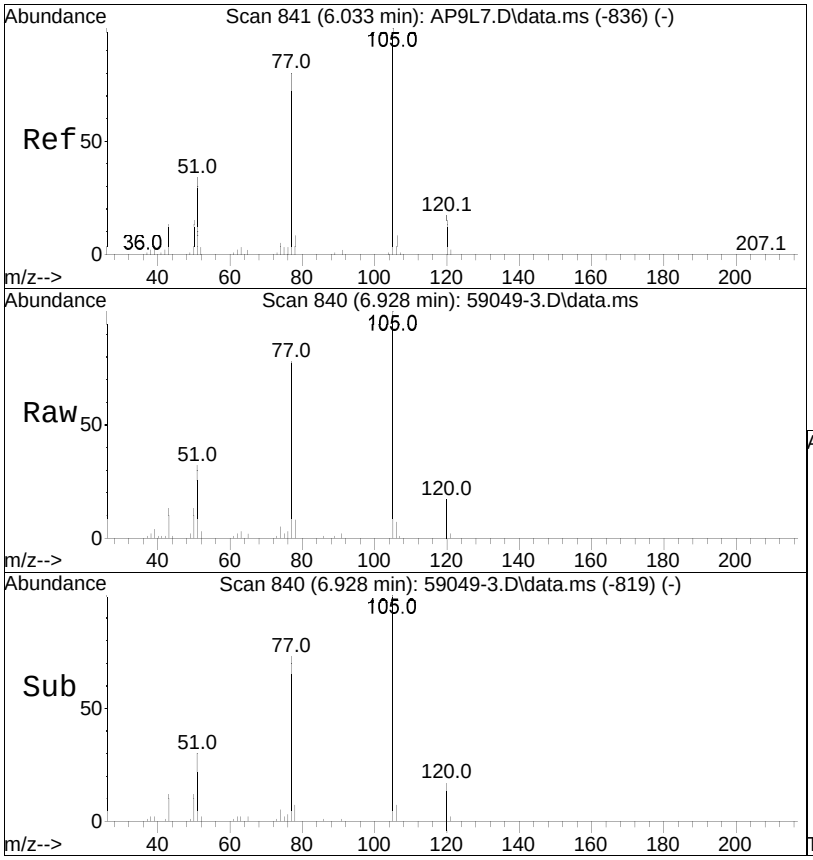


#28
Benzaldehyde
Concen: 3.20 ug/ml
RT: 5.863 min Scan# 659
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:105 Resp: 22259

Ion	Ratio	Lower	Upper
105	100		
77	101.4	82.2	123.4

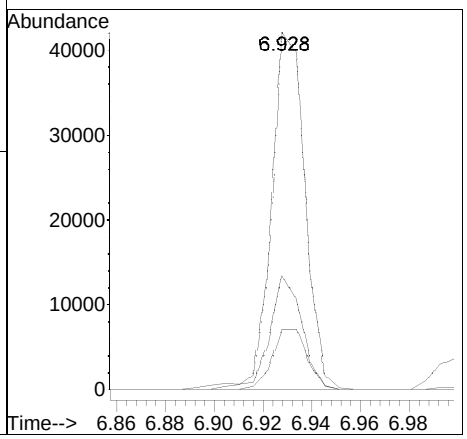


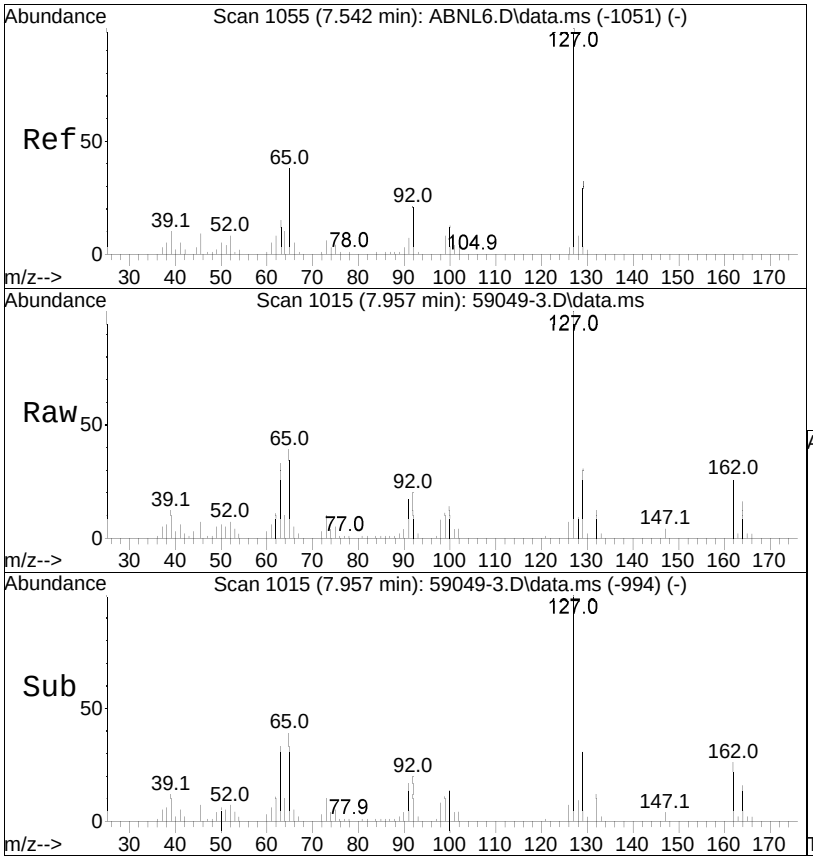


#29
Acetophenone
Concen: 3.13 ug/ml
RT: 6.928 min Scan# 840
Delta R.T. -0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:105 Resp: 39613

Ion	Ratio	Lower	Upper
105	100		
120	17.8	20.5	30.7#
51	31.9	34.9	52.3#

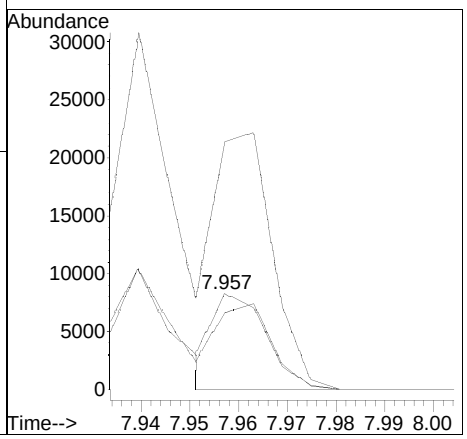


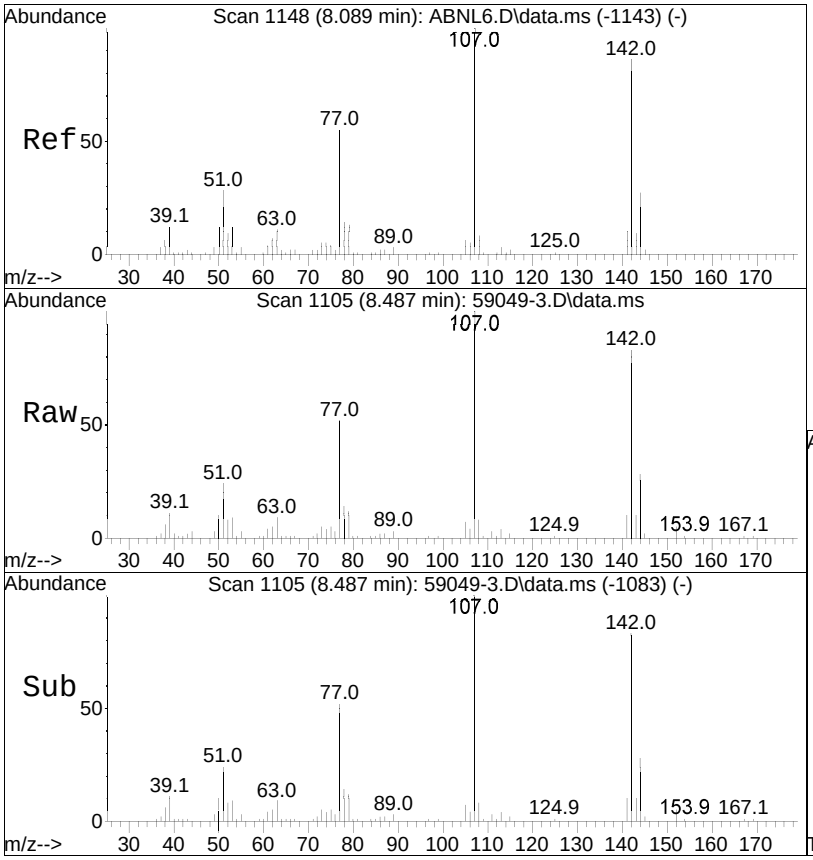


#37
4-Chloroaniline
Concen: 1.62 ug/ml
RT: 7.957 min Scan# 1015
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion: 65 Resp: 6254

Ion	Ratio	Lower	Upper
65	100		
127	290.5	237.6	356.4
129	93.6	76.3	114.5

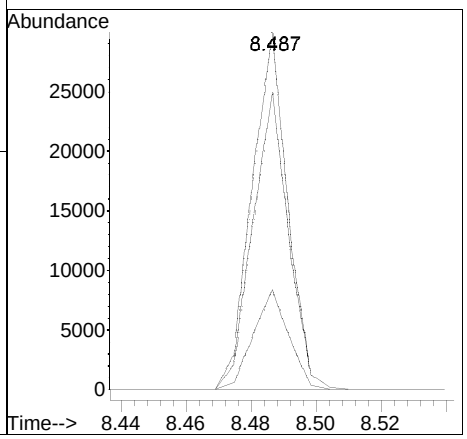


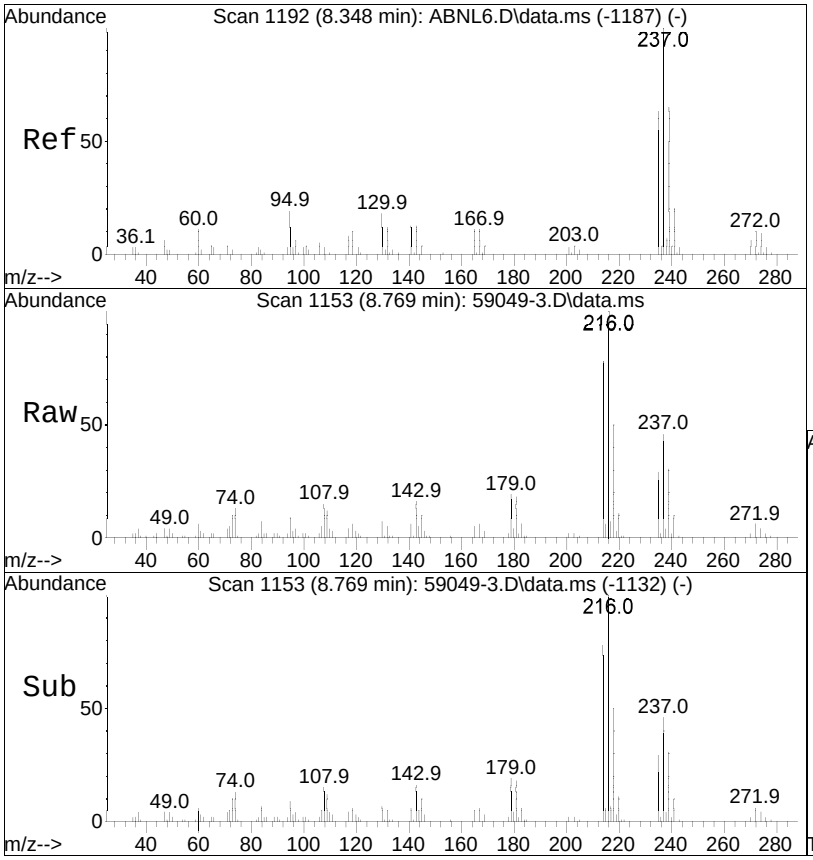


#39
p-Chloro-m-cresol
Concen: 2.88 ug/ml
RT: 8.487 min Scan# 1105
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:107 Resp: 22580

Ion	Ratio	Lower	Upper
107	100		
144	27.8	20.9	31.3
142	83.3	66.1	99.1

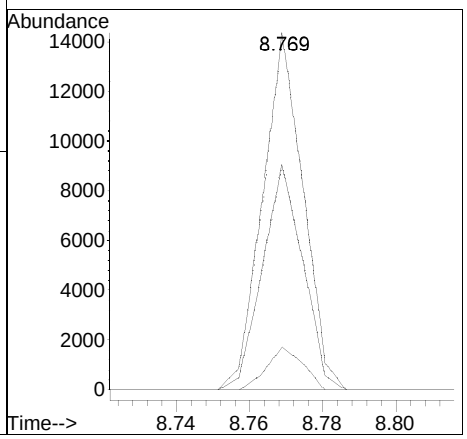


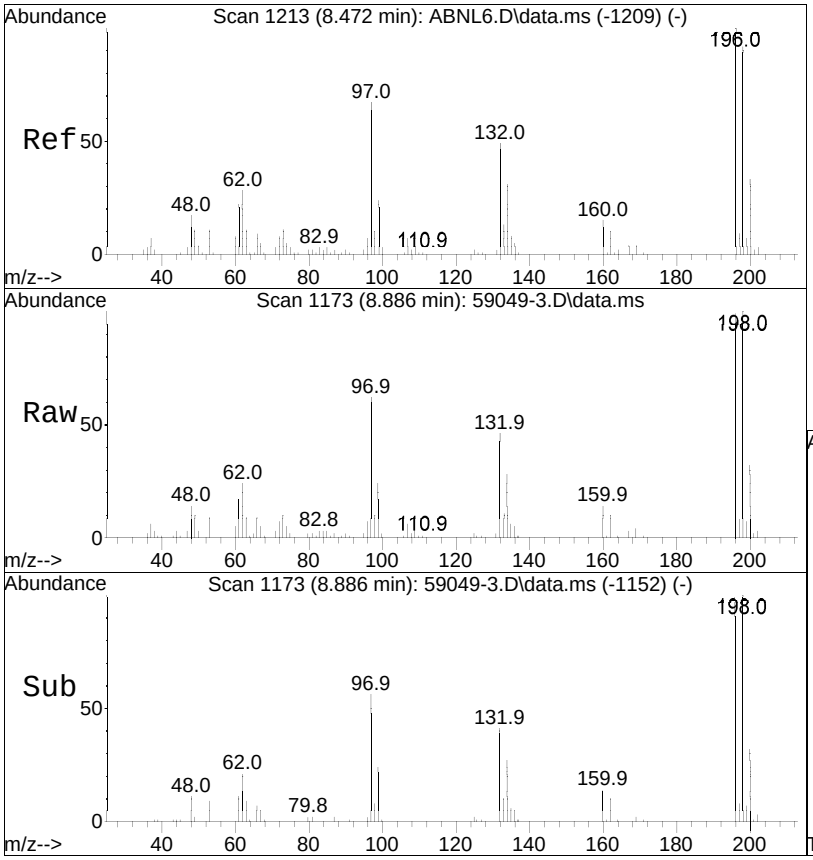


#42
Hexachlorocyclopentadiene
Concen: 1.75 ug/ml
RT: 8.769 min Scan# 1153
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:237 Resp: 10976

Ion	Ratio	Lower	Upper
237	100		
235	63.1	49.7	74.5
272	10.8	9.8	14.6

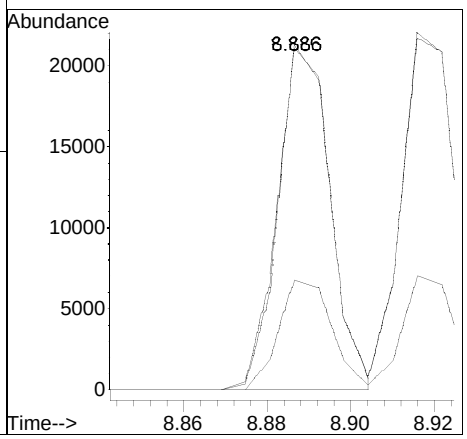


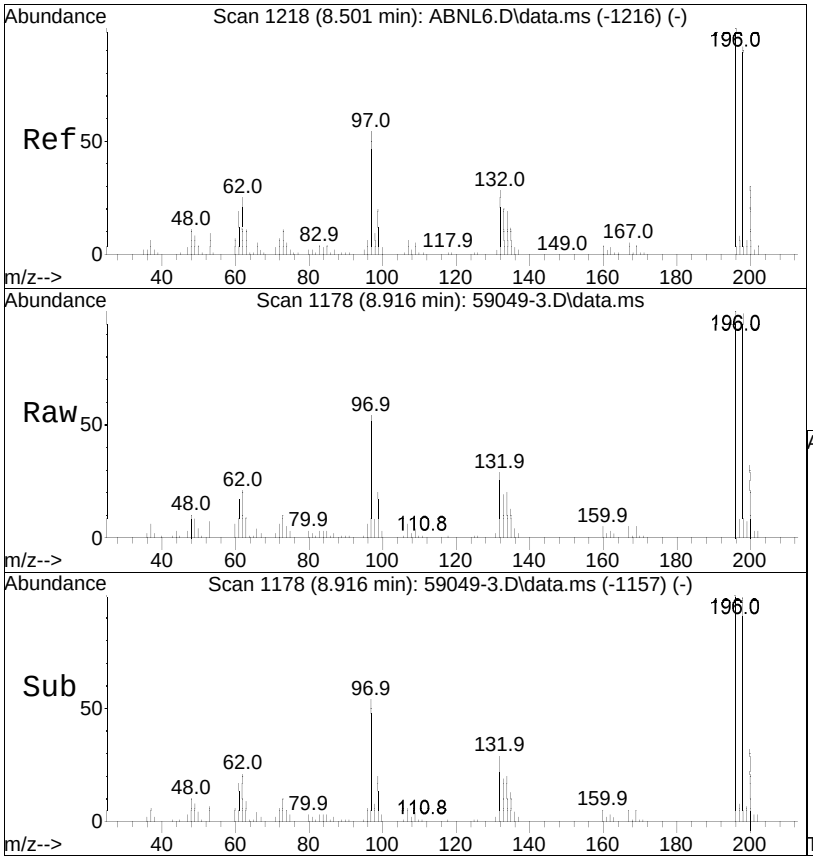


#43
2,4,6-Trichlorophenol
Concen: 3.14 ug/ml
RT: 8.886 min Scan# 1173
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:196 Resp: 18604

Ion	Ratio	Lower	Upper
196	100		
198	98.5	77.5	116.3
200	32.4	23.8	35.6

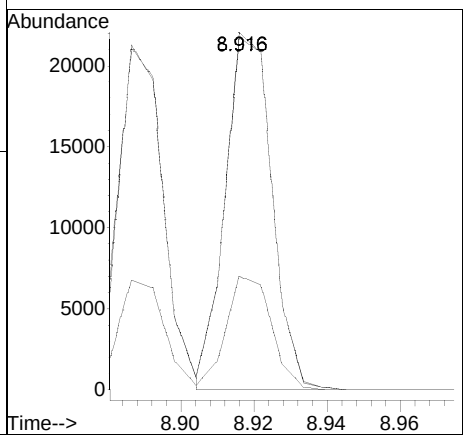


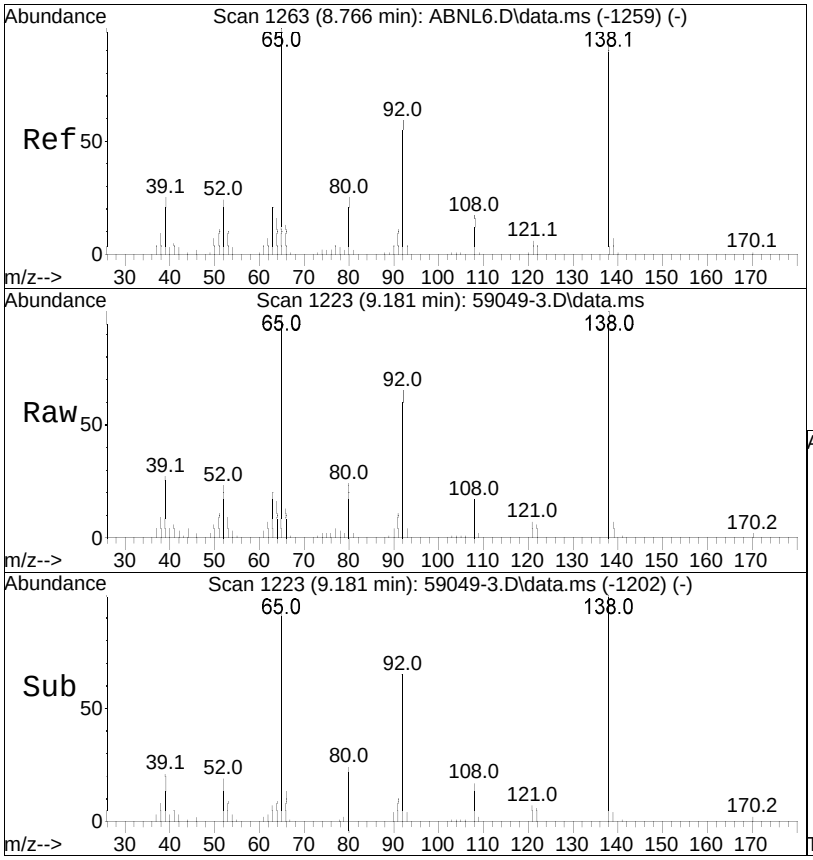


#44
2,4,5-Trichlorophenol
Concen: 3.03 ug/ml
RT: 8.916 min Scan# 1178
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:196 Resp: 19477

Ion	Ratio	Lower	Upper
196	100		
200	31.0	25.4	38.0
198	99.5	78.0	117.0

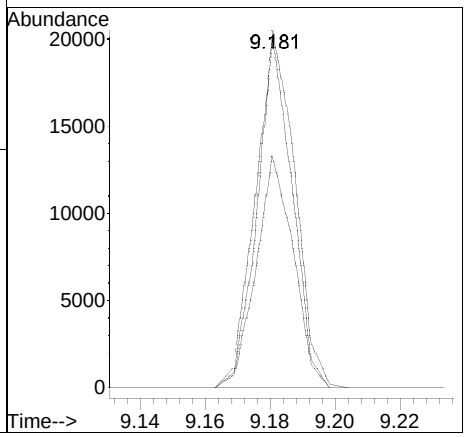


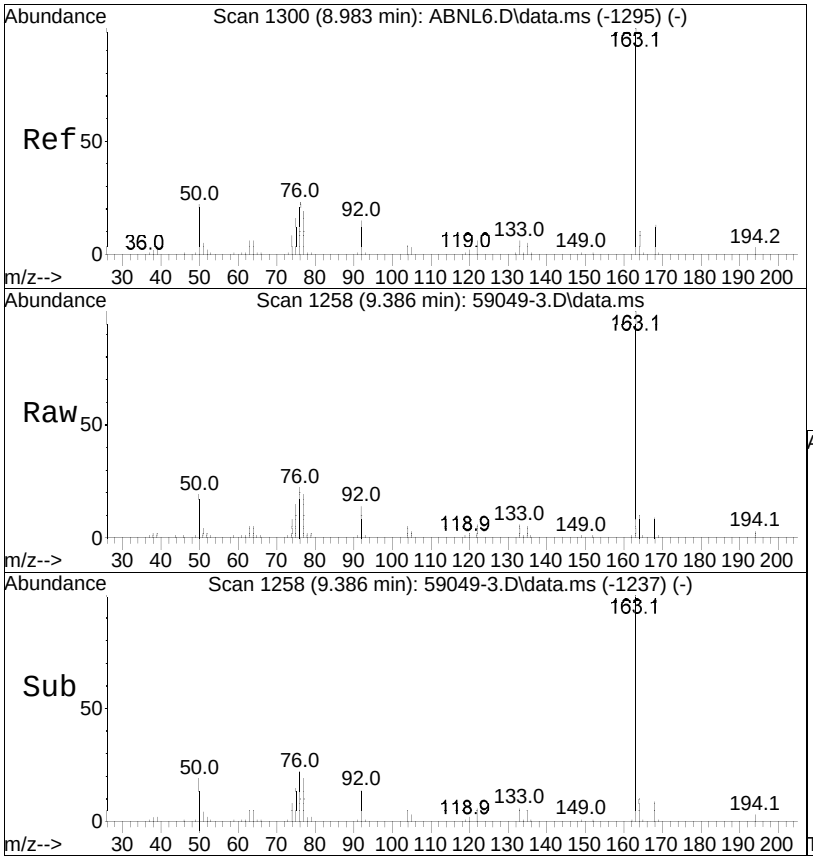


#47
2-Nitroaniline
Concen: 3.03 ug/ml
RT: 9.181 min Scan# 1223
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:138 Resp: 16165

Ion	Ratio	Lower	Upper
138	100		
92	64.7	53.5	80.3
65	96.8	86.3	129.5

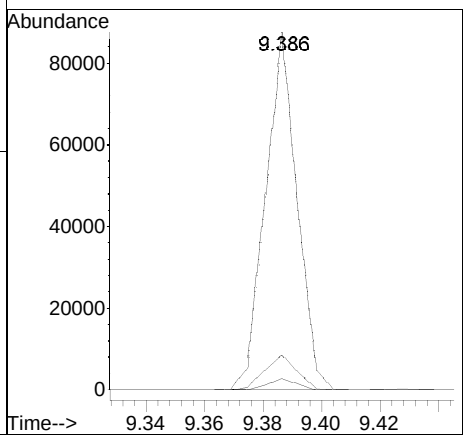


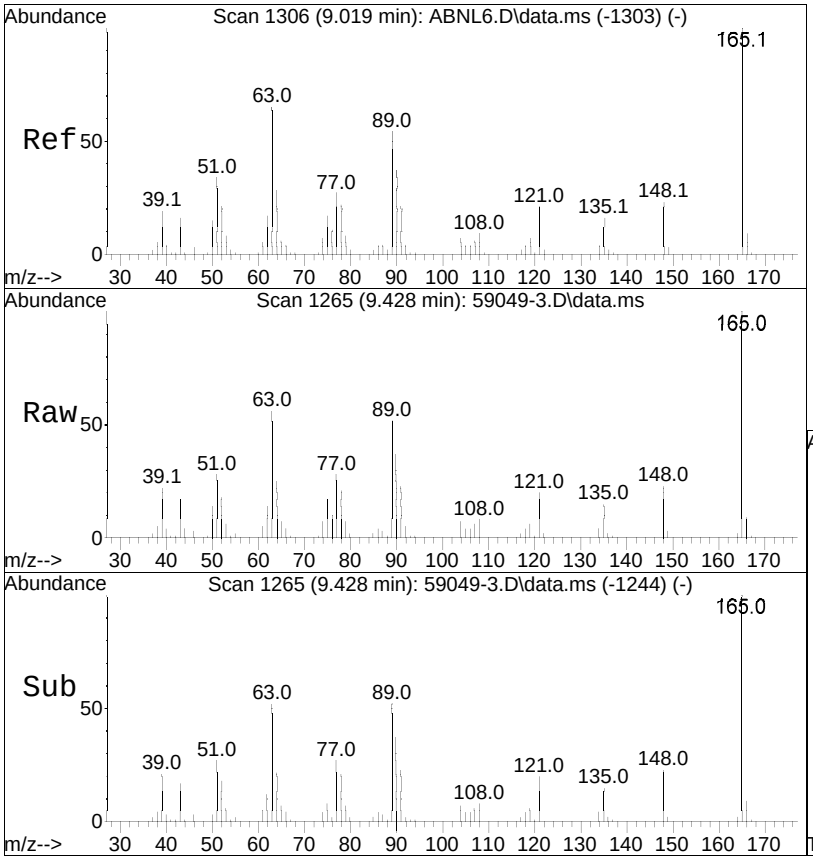


#50
Dimethyl phthalate
Concen: 2.84 ug/ml
RT: 9.386 min Scan# 1258
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:163 Resp: 65026

Ion	Ratio	Lower	Upper
163	100		
194	3.0	3.5	5.3#
164	10.0	7.9	11.9

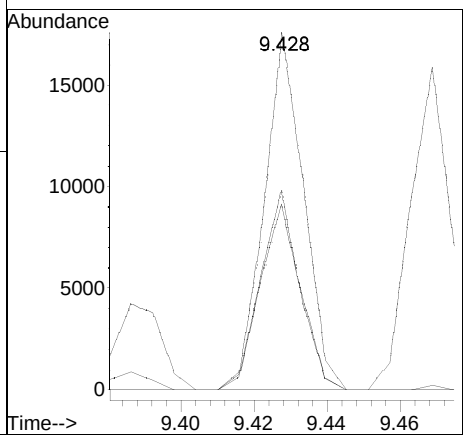


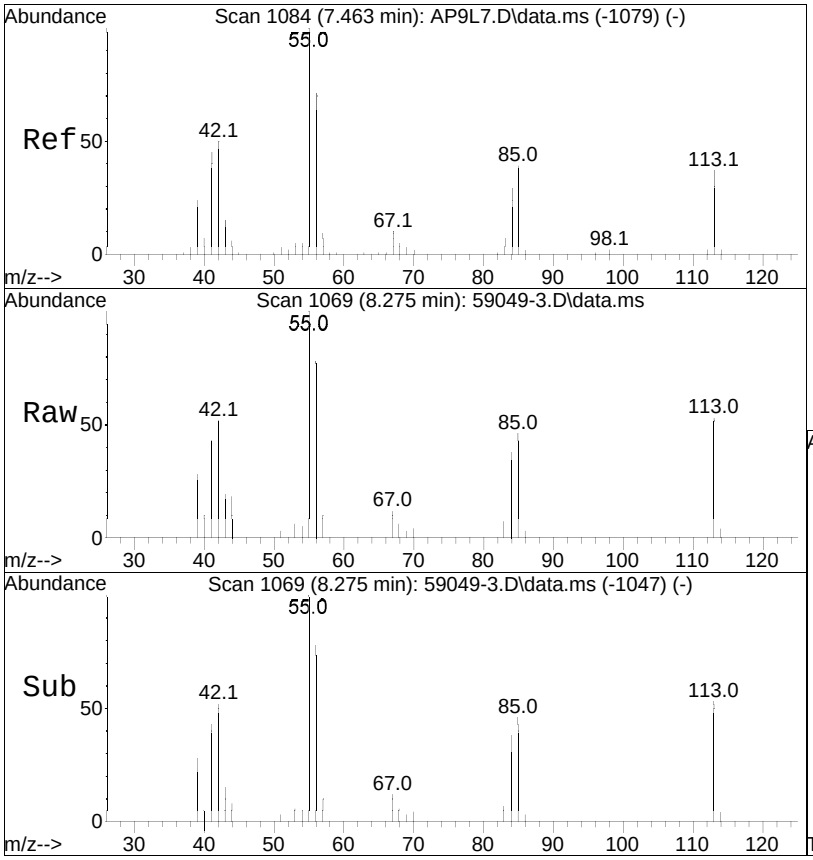


#52
2,6-Dinitrotoluene
Concen: 2.80 ug/ml
RT: 9.428 min Scan# 1265
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:165 Resp: 13151

Ion	Ratio	Lower	Upper
165	100		
89	53.5	54.2	81.2#
63	55.4	64.2	96.2#

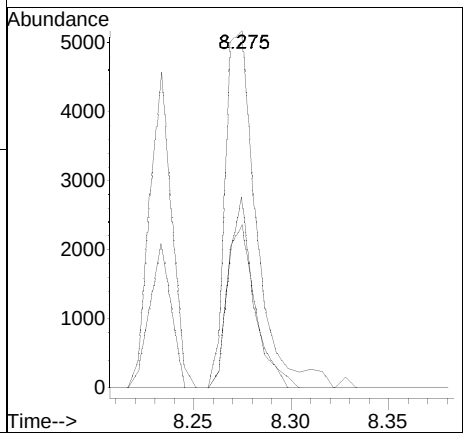


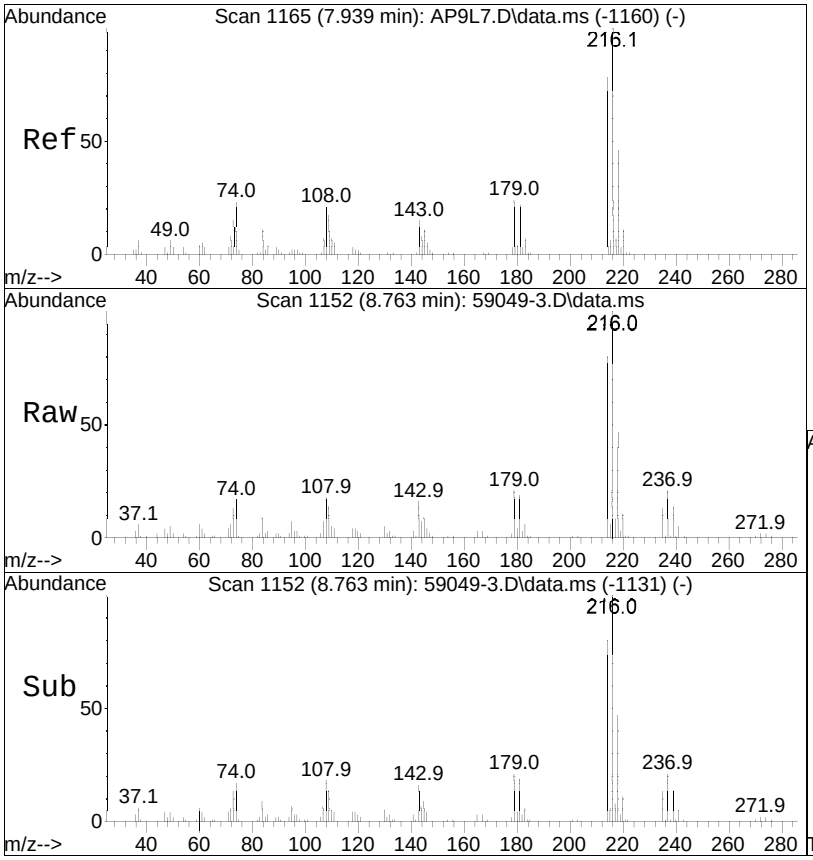


#59
Caprolactam
Concen: 1.07 ug/ml
RT: 8.275 min Scan# 1069
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion: 55 Resp: 5812

Ion	Ratio	Lower	Upper
55	100		
85	40.9	19.8	29.6#
113	43.4	29.6	44.4

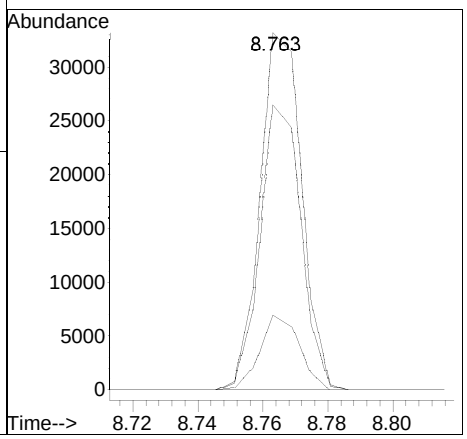


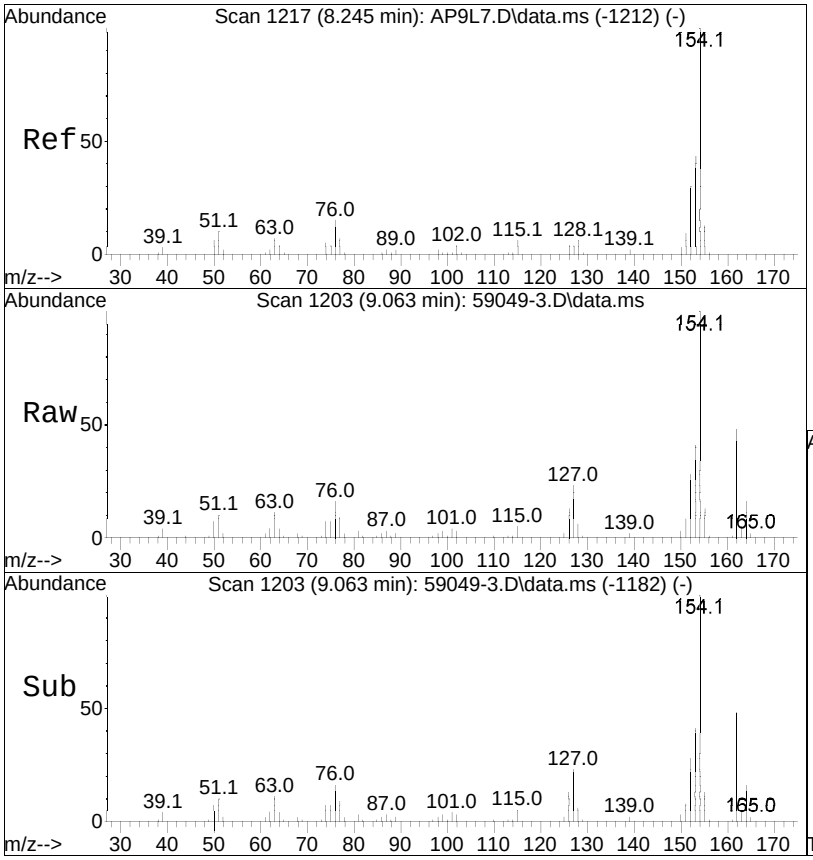


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.17 ug/ml
RT: 8.763 min Scan# 1152
Delta R.T. -0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:216 Resp: 29528

Ion	Ratio	Lower	Upper
216	100		
214	78.5	63.7	95.5
179	19.9	19.0	28.6

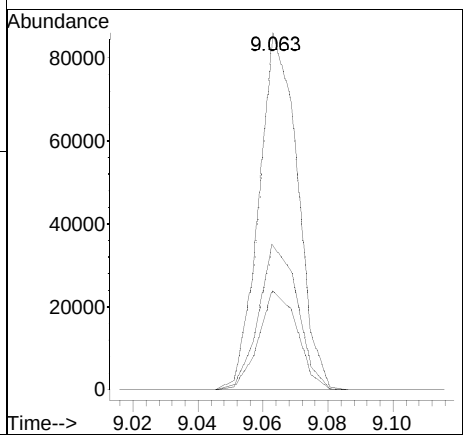


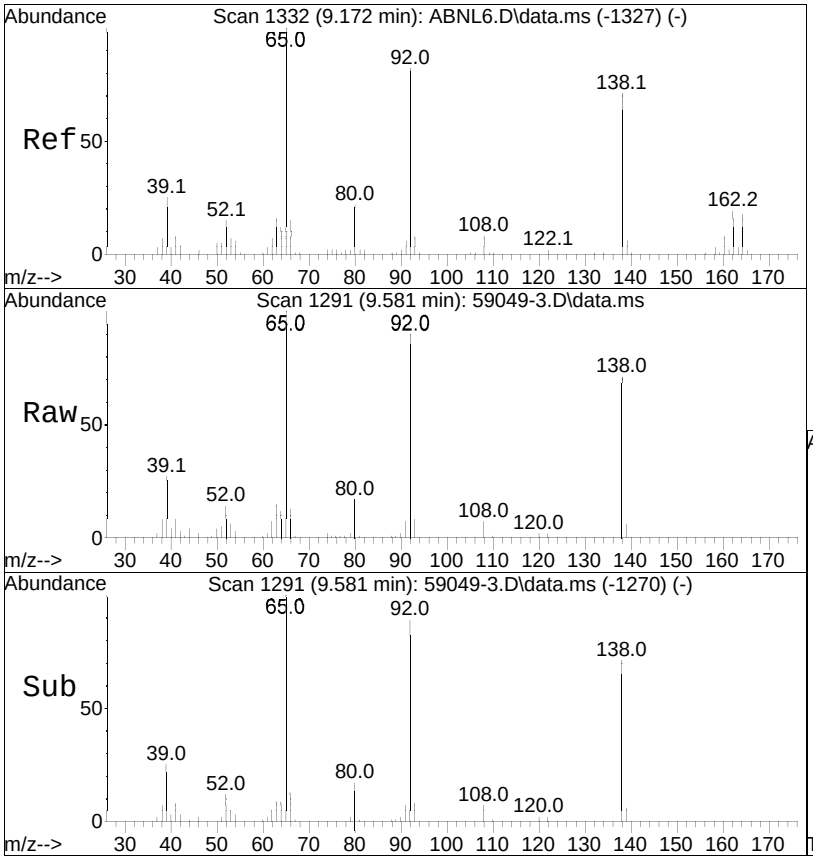


#61
Biphenyl
Concen: 3.07 ug/ml
RT: 9.063 min Scan# 1203
Delta R.T. -0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:154 Resp: 70285

Ion	Ratio	Lower	Upper
154	100		
153	41.3	32.3	48.5
152	28.1	22.5	33.7

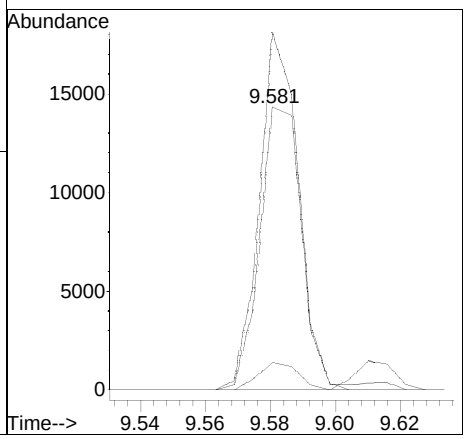


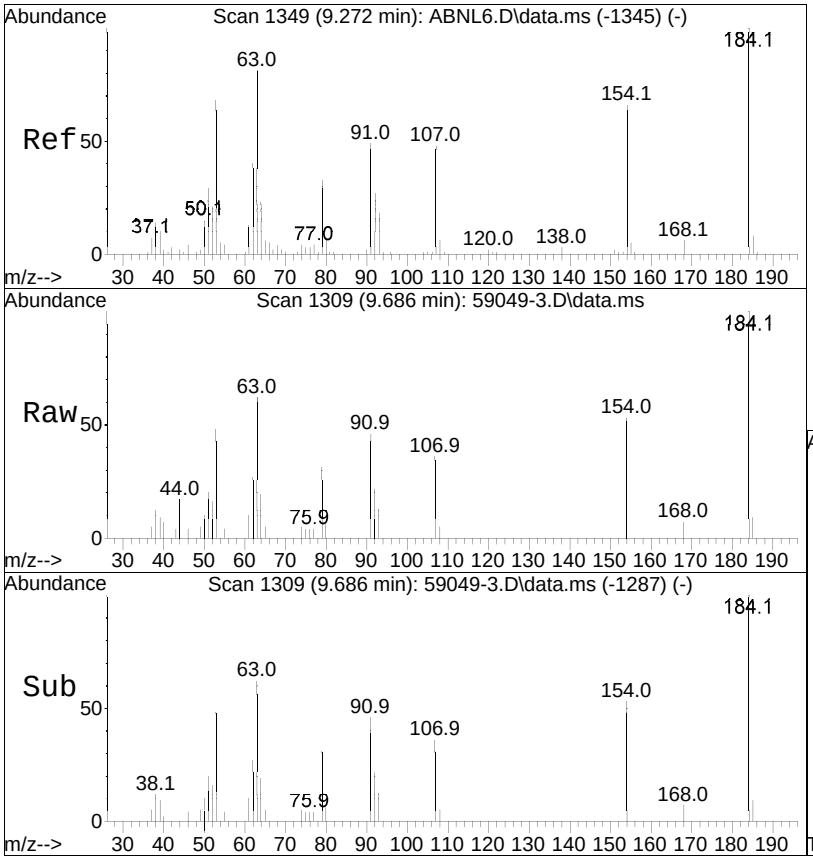


#63
3-Nitroaniline
Concen: 2.53 ug/ml
RT: 9.581 min Scan# 1291
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:138 Resp: 12613

Ion	Ratio	Lower	Upper
138	100		
92	120.9	93.4	140.2
108	9.4	9.5	14.3#

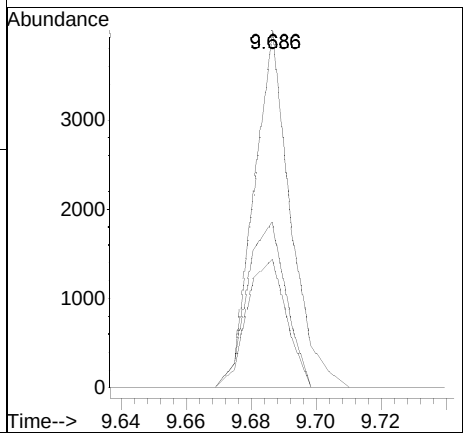


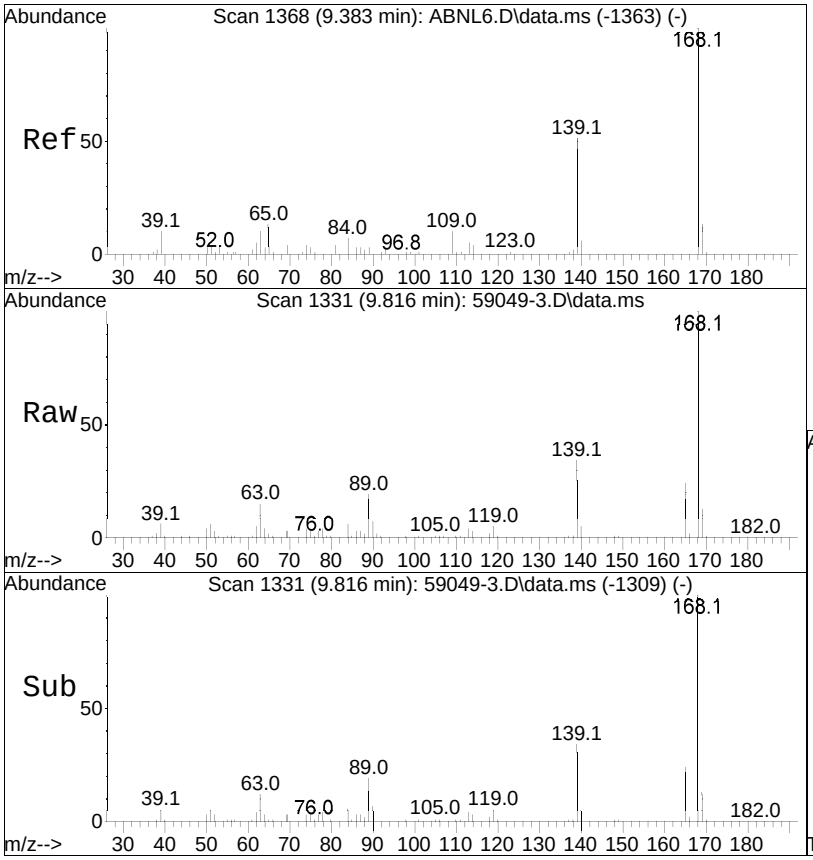


#65
2,4-Dinitrophenol
Concen: 2.18 ug/ml
RT: 9.686 min Scan# 1309
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:184 Resp: 3107

Ion	Ratio	Lower	Upper
184	100		
107	39.1	37.7	56.5
91	49.8	46.3	69.5

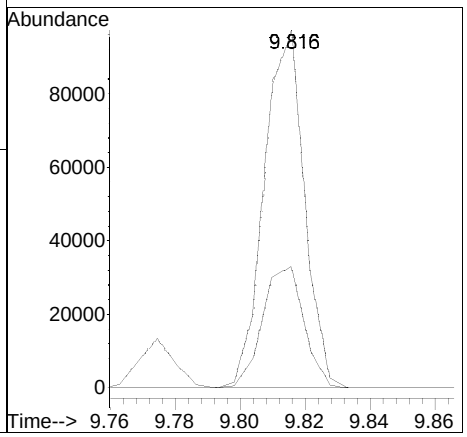


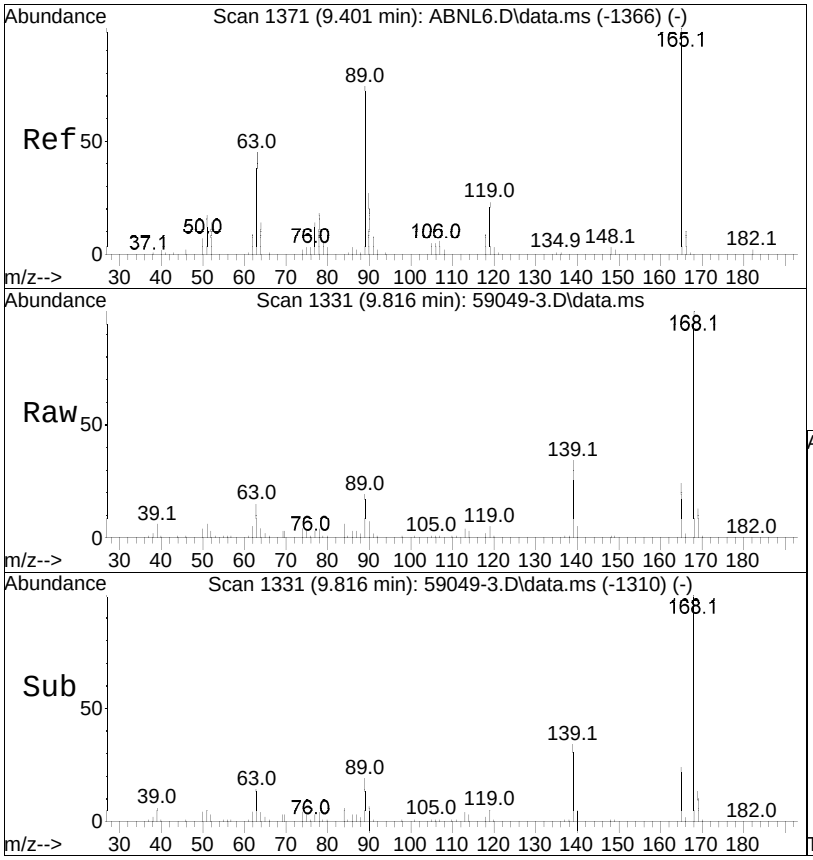


#66
Dibenzofuran
Concen: 3.03 ug/ml
RT: 9.816 min Scan# 1331
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:168 Resp: 82818

Ion	Ratio	Lower	Upper
168	100		
139	35.3	31.4	47.2

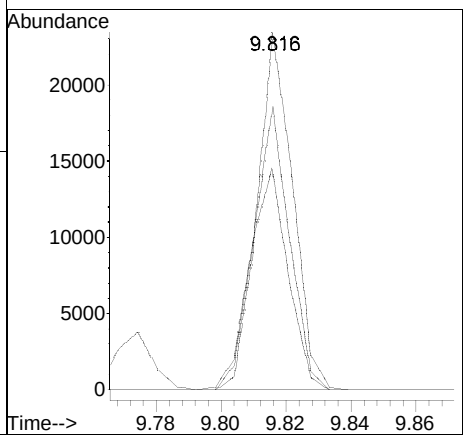


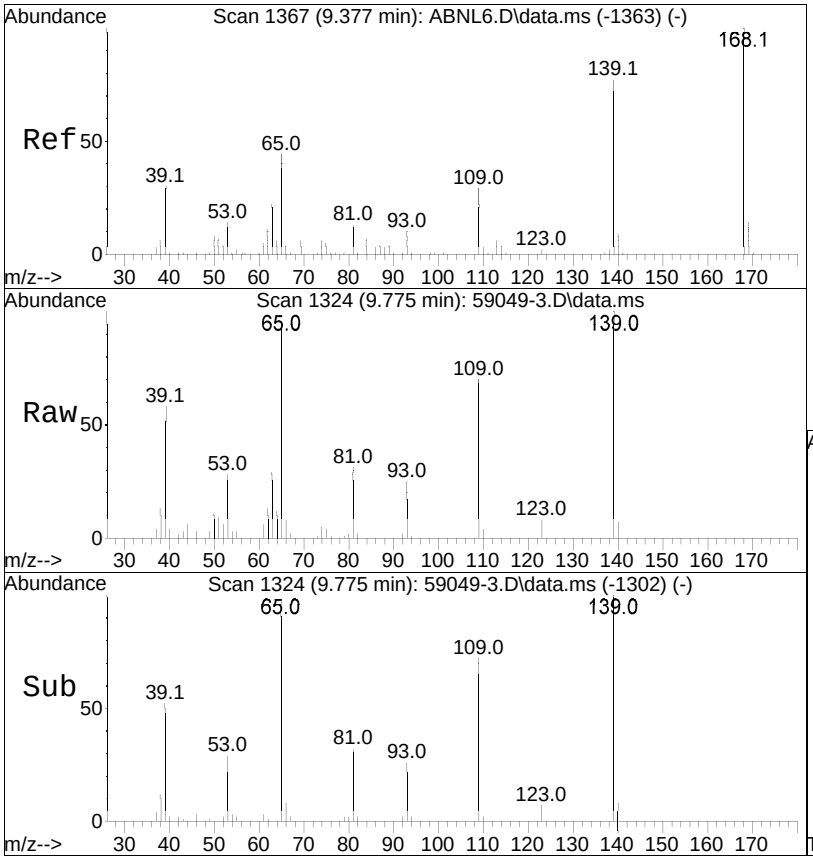


#67
2,4-Dinitrotoluene
Concen: 2.72 ug/ml
RT: 9.816 min Scan# 1331
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:165 Resp: 17578

Ion	Ratio	Lower	Upper
165	100		
89	79.8	72.0	108.0
63	67.3	52.7	79.1

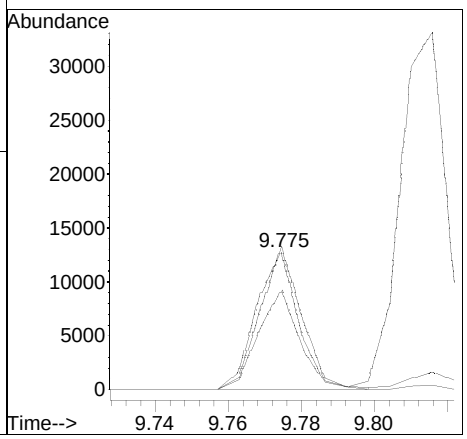


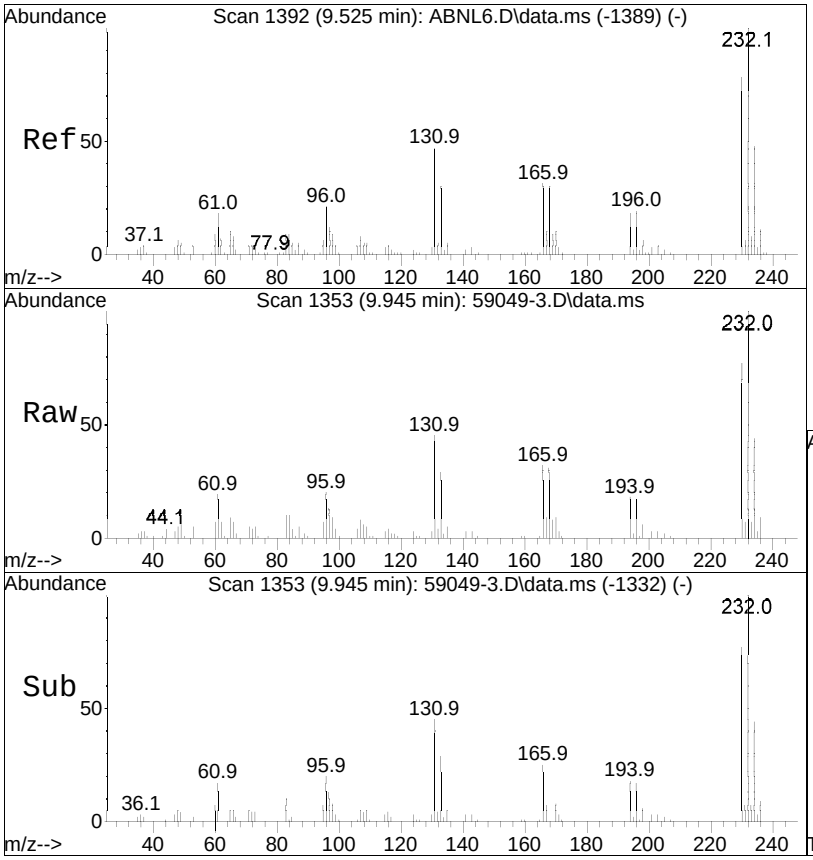


#68
4-Nitrophenol
Concen: 2.04 ug/ml
RT: 9.775 min Scan# 1324
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion: 65 Resp: 10239

Ion	Ratio	Lower	Upper
65	100		
109	70.3	47.4	71.2
139	100.9	76.6	115.0

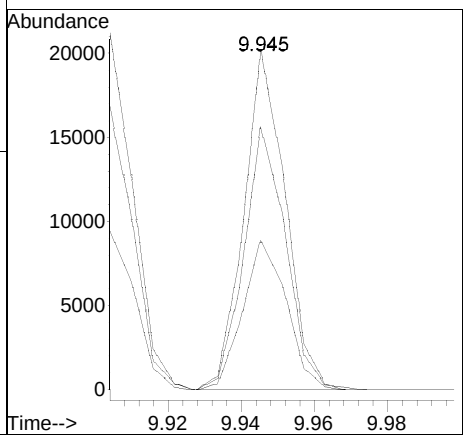


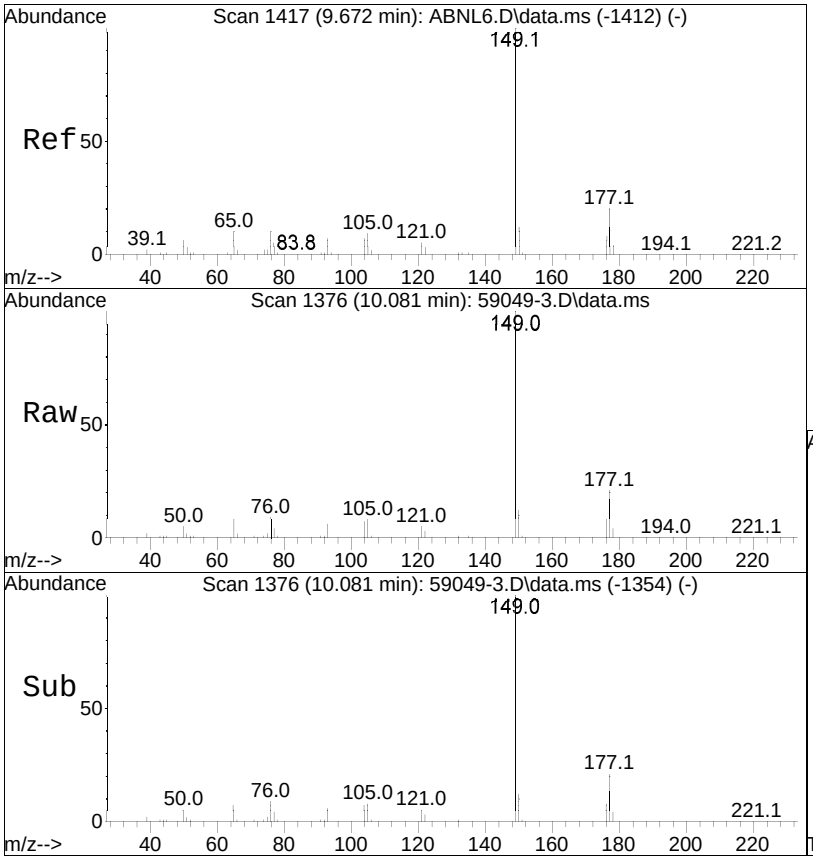


#70
2,3,4,6-Tetrachlorophenol
Concen: 2.99 ug/ml
RT: 9.945 min Scan# 1353
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:232 Resp: 15874

Ion	Ratio	Lower	Upper
232	100		
230	78.2	61.8	92.8
234	46.5	36.2	54.2

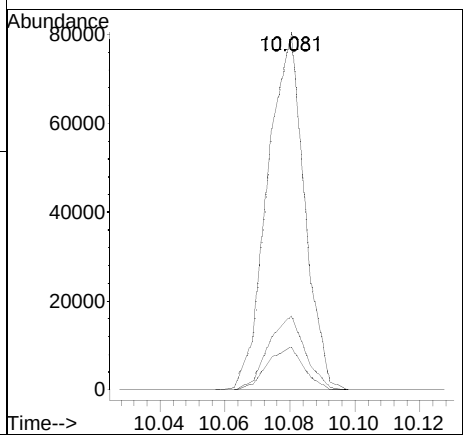


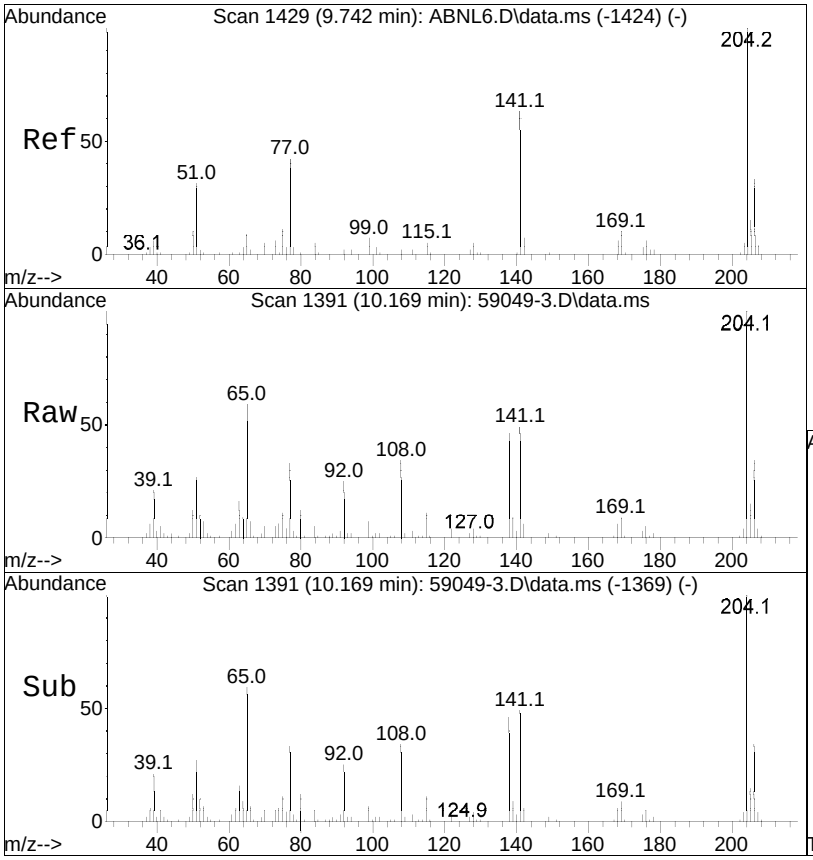


#71
Diethyl phthalate
Concen: 2.88 ug/ml
RT: 10.081 min Scan# 1376
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:149 Resp: 62817

Ion	Ratio	Lower	Upper
149	100		
177	20.7	16.1	24.1
150	12.0	9.4	14.2

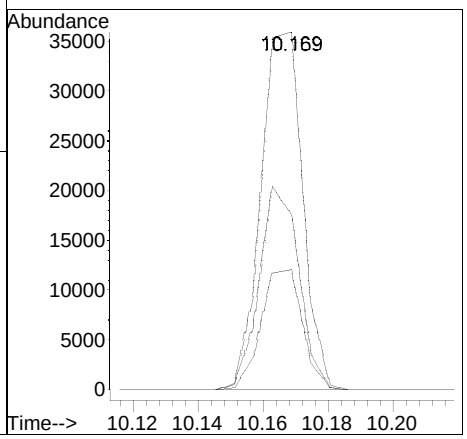


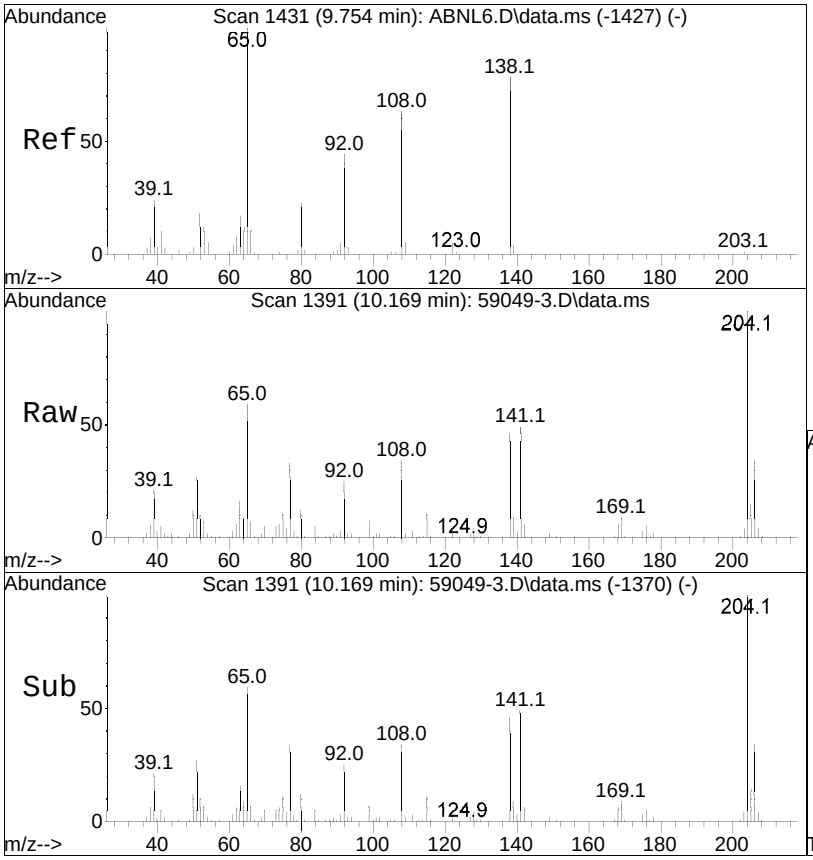


#73
4-Chlorophenyl phenyl ether
Concen: 2.95 ug/ml
RT: 10.169 min Scan# 1391
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:204 Resp: 31902

Ion	Ratio	Lower	Upper
204	100		
206	33.6	25.8	38.6
141	54.0	53.6	80.4

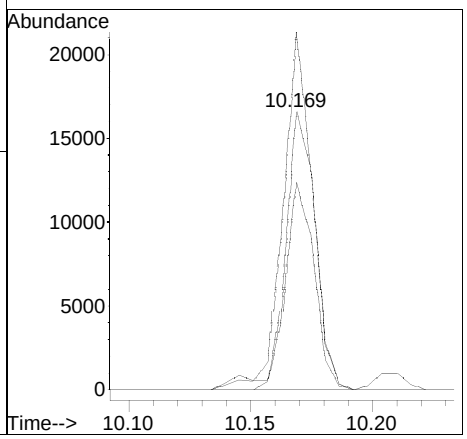


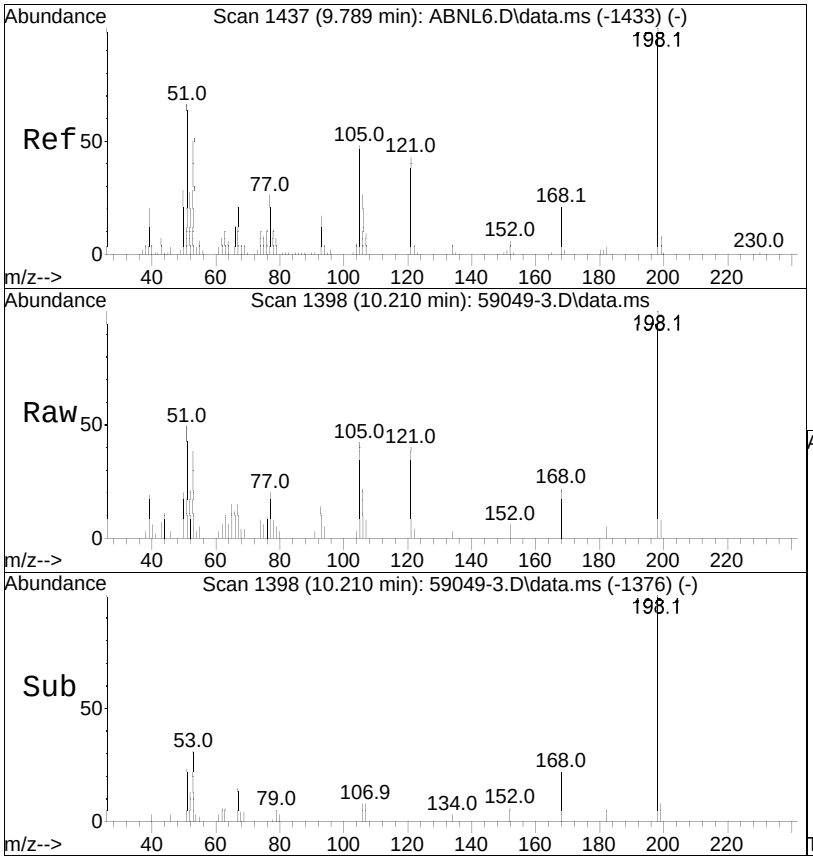


#74
4-Nitroaniline
Concen: 2.88 ug/ml
RT: 10.169 min Scan# 1391
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:138 Resp: 14312

Ion	Ratio	Lower	Upper
138	100		
108	69.8	52.1	78.1
65	123.3	115.0	172.6

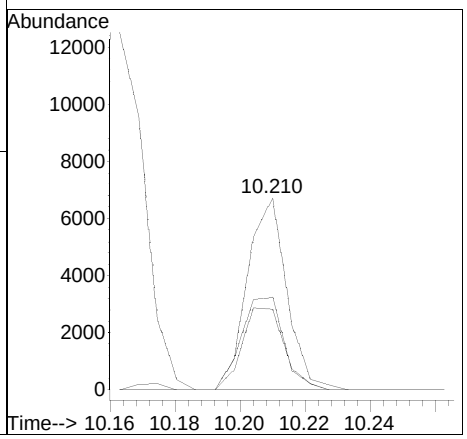


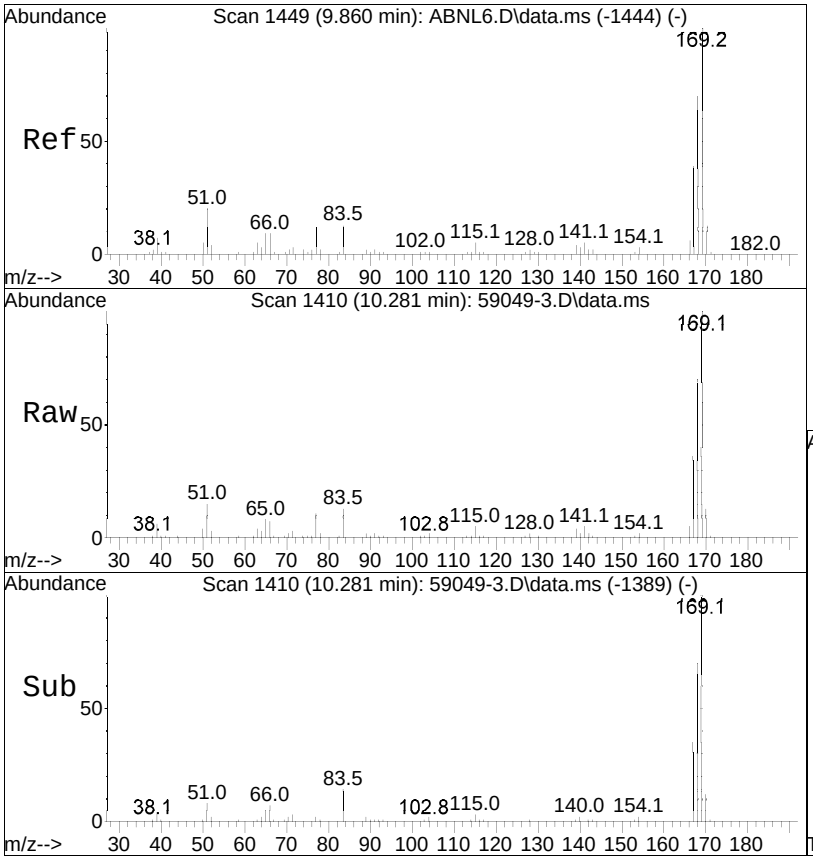


#75
4,6-Dinitro-o-cresol
Concen: 2.34 ug/ml
RT: 10.210 min Scan# 1398
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:198 Resp: 5648

Ion	Ratio	Lower	Upper
198	100		
51	52.6	76.0	114.0#
105	46.2	45.6	68.4

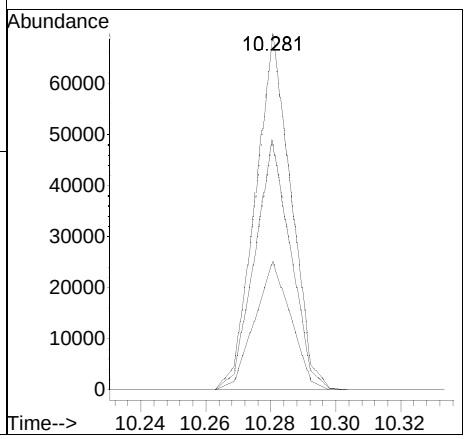


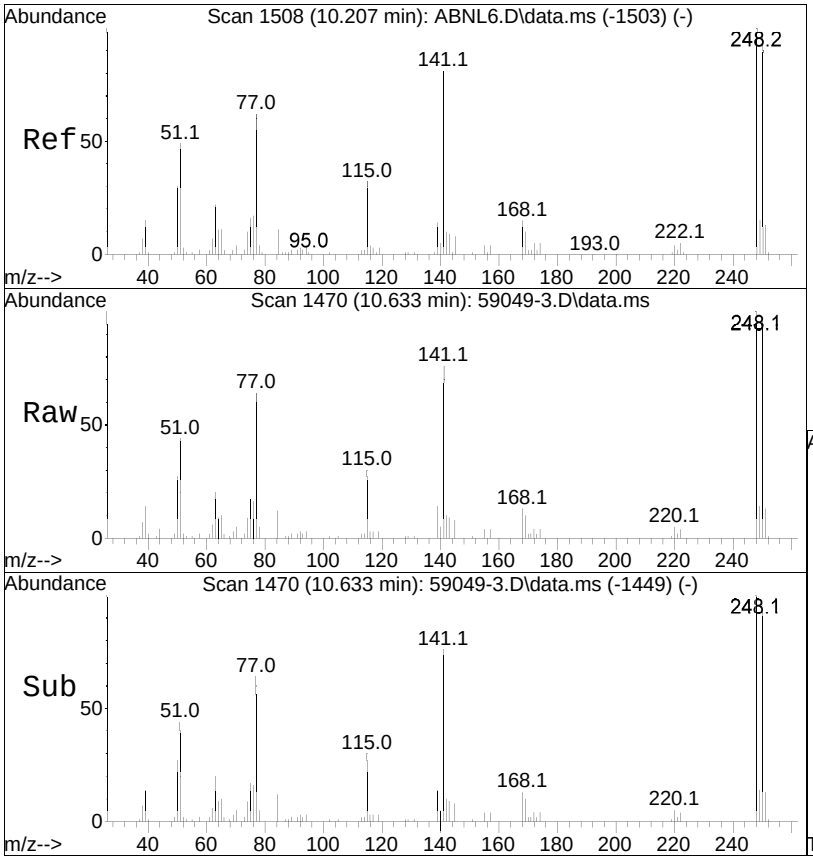


#76
NDPA/DPA
Concen: 2.99 ug/ml
RT: 10.281 min Scan# 1410
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:169 Resp: 53154

Ion	Ratio	Lower	Upper
169	100		
168	70.7	54.0	81.0
167	36.6	28.6	42.8

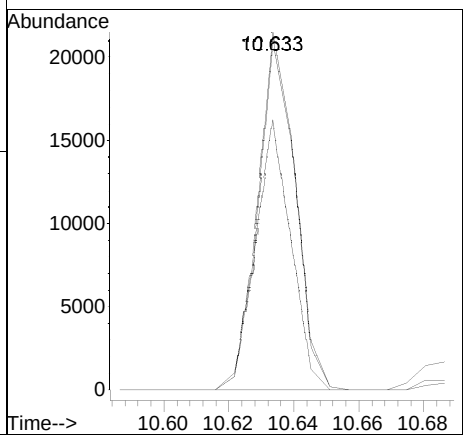


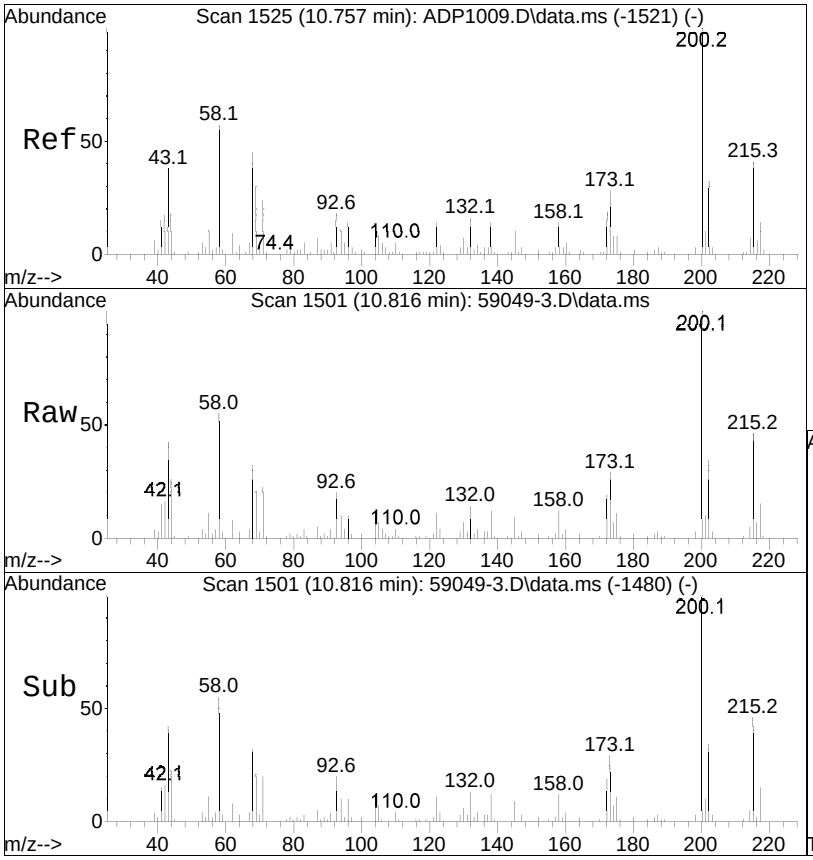


#79
4-Bromophenyl phenyl ether
Concen: 2.97 ug/ml
RT: 10.633 min Scan# 1470
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:248 Resp: 17102

Ion	Ratio	Lower	Upper
248	100		
141	71.8	76.6	114.8#
250	95.9	77.3	115.9

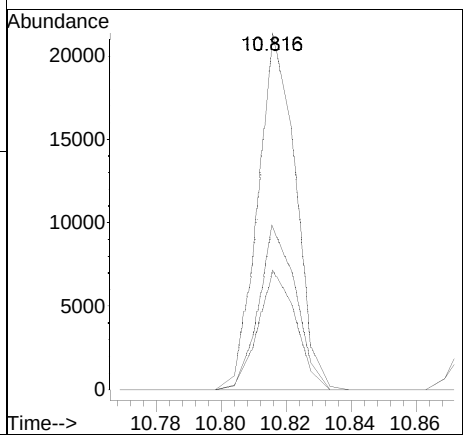


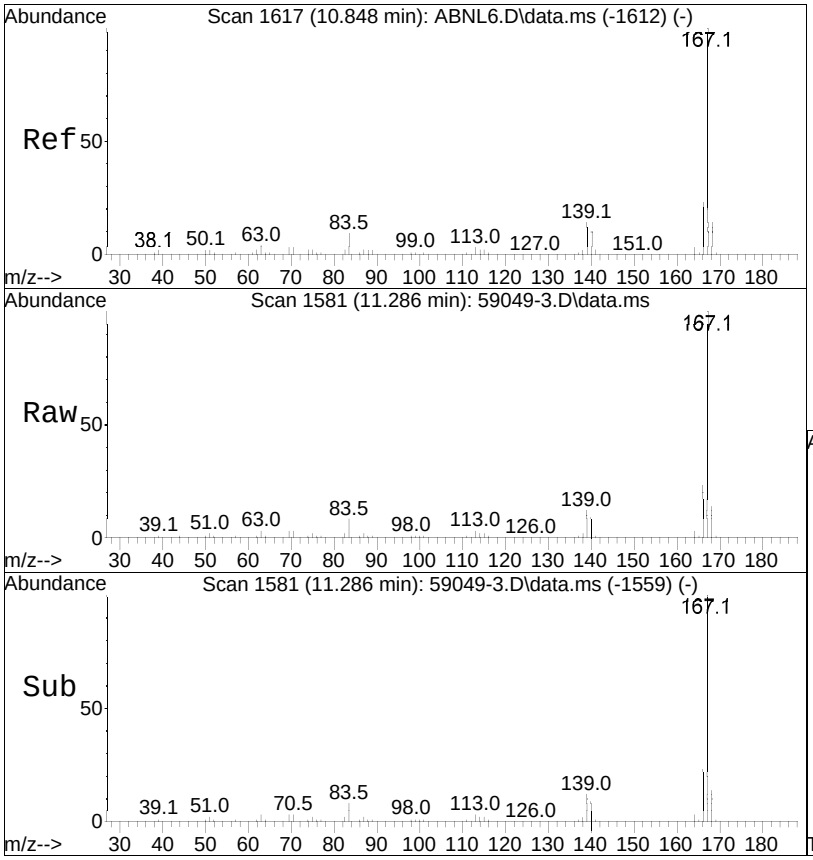


#86
Atrazine
Concen: 2.99 ug/ml
RT: 10.816 min Scan# 1501
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:200 Resp: 17086

Ion	Ratio	Lower	Upper
200	100		
202	33.7	25.8	38.6
215	45.3	40.2	60.4

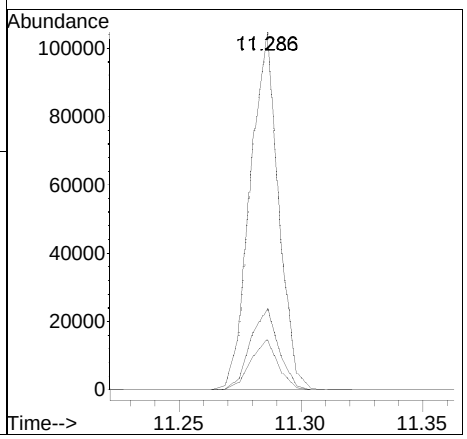


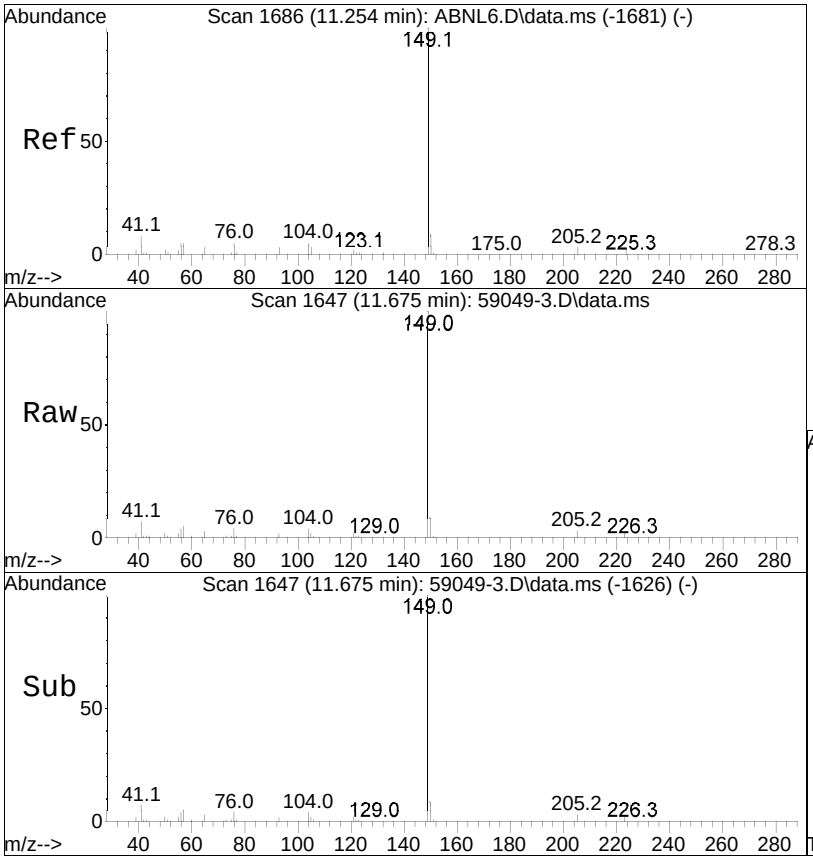


#90
Carbazole
Concen: 2.83 ug/ml
RT: 11.286 min Scan# 1581
Delta R.T. 0.006 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:167 Resp: 83957

Ion	Ratio	Lower	Upper
167	100		
168	13.7	10.6	15.8
166	22.9	17.4	26.0

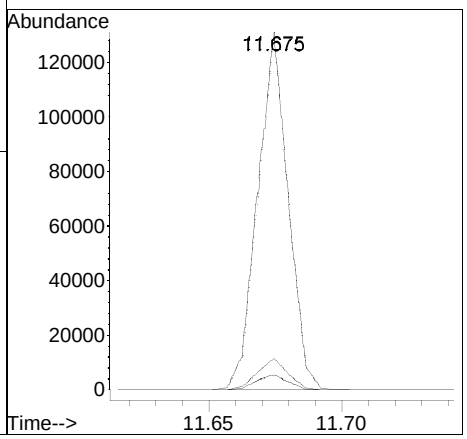


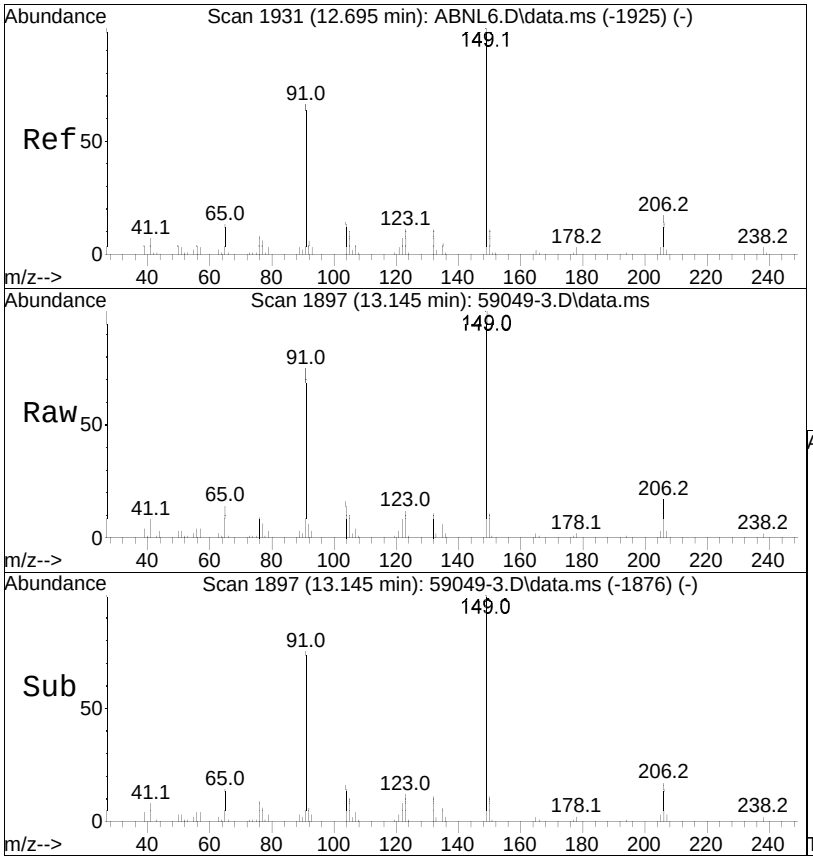


#91
Di-n-butylphthalate
Concen: 2.74 ug/ml
RT: 11.675 min Scan# 1647
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:149 Resp: 102371

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.0	10.6
104	4.4	4.5	6.7#

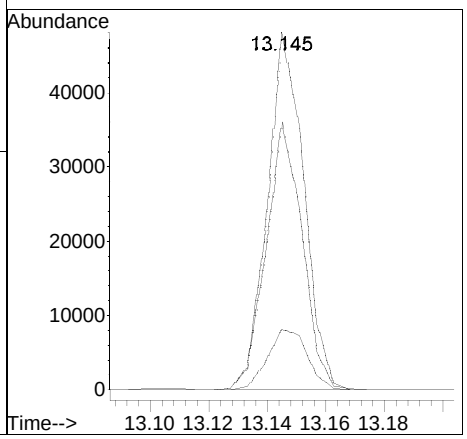


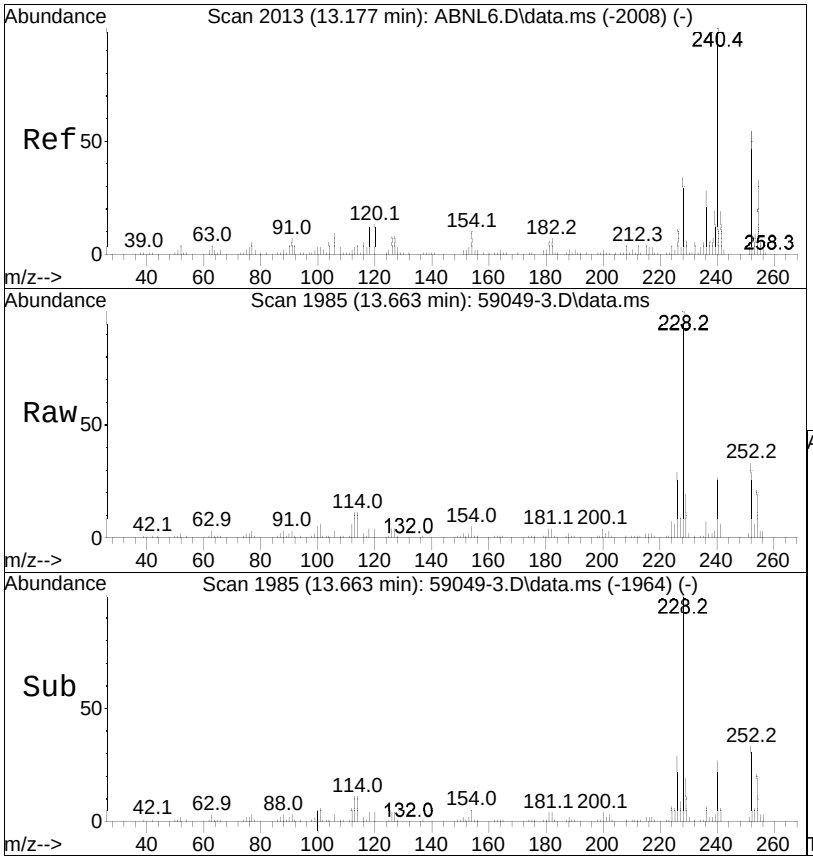


#96
Butyl benzyl phthalate
Concen: 2.86 ug/ml
RT: 13.145 min Scan# 1897
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:149 Resp: 41041

Ion	Ratio	Lower	Upper
149	100		
91	74.6	63.3	94.9
206	18.6	13.9	20.9

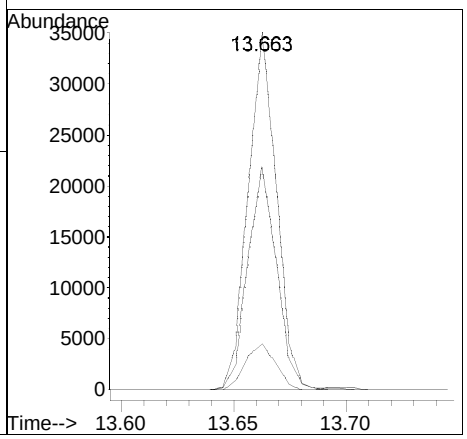


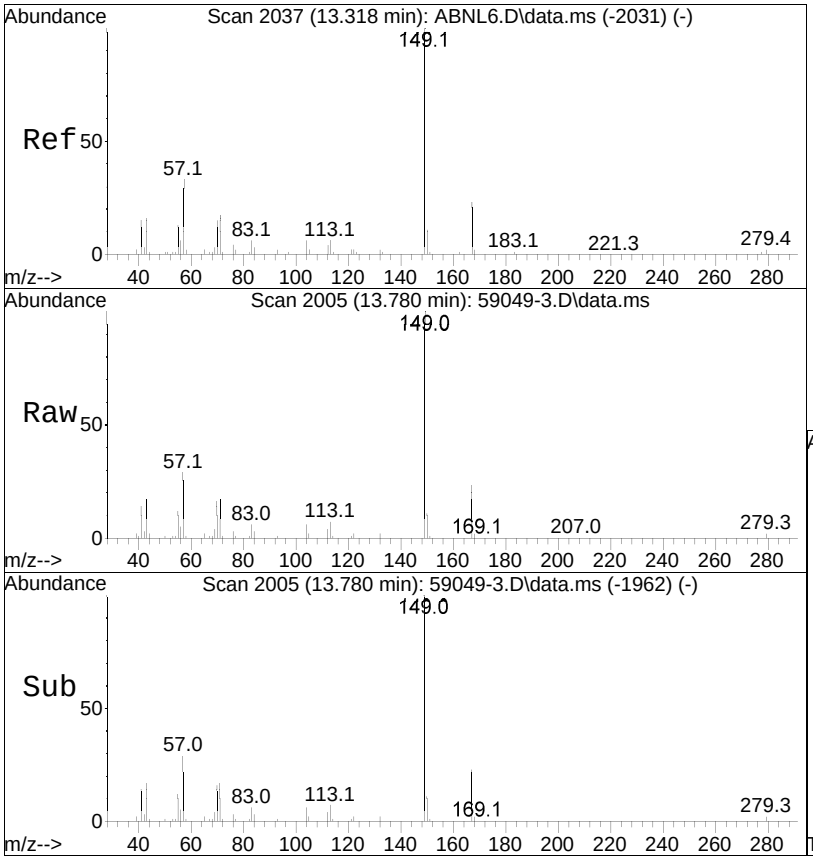


#105
3,3'-Dichlorobenzidine
Concen: 2.65 ug/ml
RT: 13.663 min Scan# 1985
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:252 Resp: 30582

Ion	Ratio	Lower	Upper
252	100		
126	14.0	14.5	21.7#
254	63.2	51.2	76.8

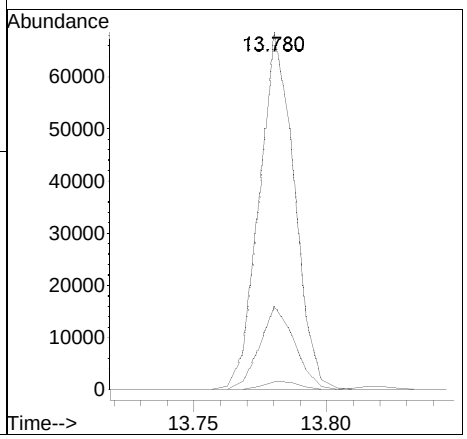


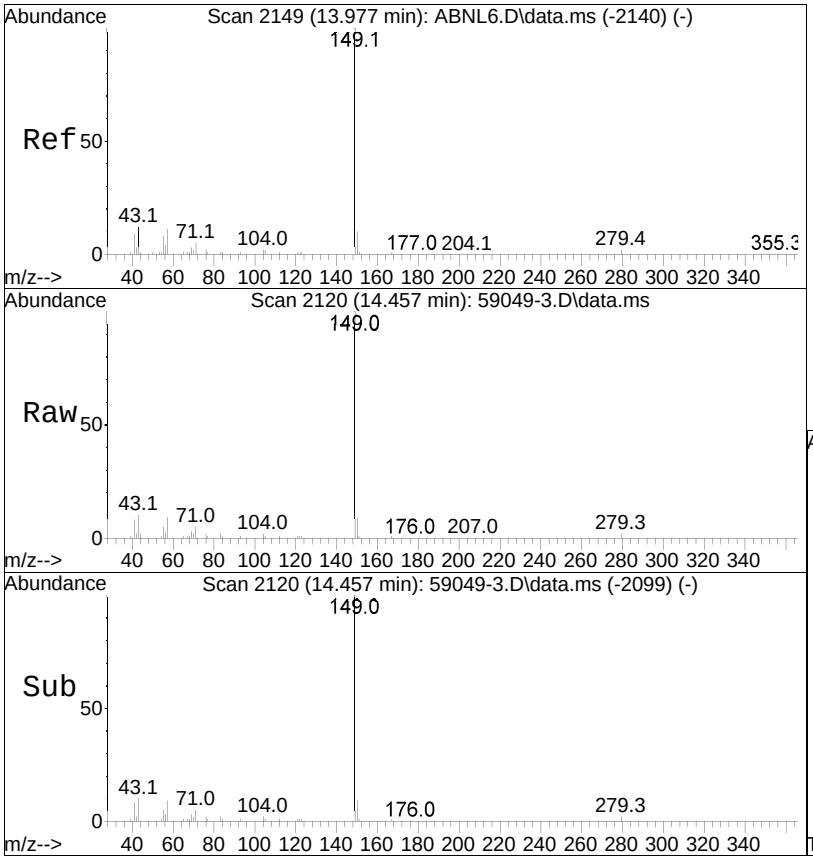


#107
Bis(2-ethylhexyl)phthalate
Concen: 2.98 ug/ml
RT: 13.780 min Scan# 2005
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:149 Resp: 62237

Ion	Ratio	Lower	Upper
149	100		
167	23.3	22.1	33.1
279	2.1	3.0	4.4#

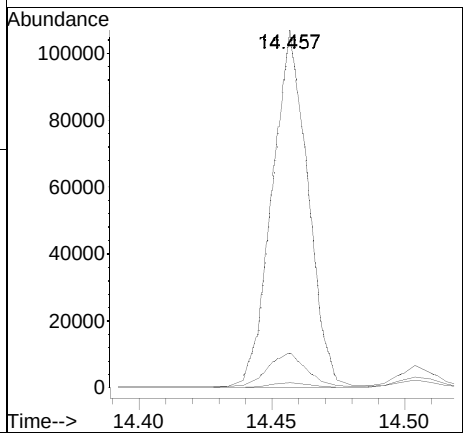




#108
Di-n-octylphthalate
Concen: 3.02 ug/ml
RT: 14.457 min Scan# 2120
Delta R.T. 0.000 min
Lab File: 59049-3.D
Acq: 6 Dec 2023 5:56 pm

Tgt Ion:149 Resp: 99153

Ion	Ratio	Lower	Upper
149	100		
43	10.2	18.8	28.2#
167	1.3	1.3	1.9#



Quantitation Report (QT Reviewed)

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Data File : 859049-4.D
Acq On : 5 Dec 2023 3:01 am
Operator : SV106:sz
Sample : WG1859049-4,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 17:38:16 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 03:20:55 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	5.528	152	37013	4.000	ug/ml		0.00
Standard Area 1 = 35534			Recovery = 104.16%				
27) IS2_1,4-Dichlorobenzen...	5.528	152	37013	4.000	ug/ml		0.00
Standard Area 3 = 42220			Recovery = 87.67%				
34) IS1_Naphthalene-d8	7.087	136	137502	4.000	ug/ml	#	0.00
Standard Area 1 = 137007			Recovery = 100.36%				
54) IS2_Naphthalene-d8	7.087	136	137502	4.000	ug/ml	#	0.00
Standard Area 3 = 169210			Recovery = 81.26%				
62) IS1_Acenaphthene-d10	8.857	164	78087	4.000	ug/ml		0.00
Standard Area 1 = 78857			Recovery = 99.02%				
82) IS2_Acenaphthene-d10	8.857	164	78087	4.000	ug/ml		0.00
Standard Area 3 = 97131			Recovery = 80.39%				
85) IS3_Acenaphthene-d10	8.857	164	78087	4.000	ug/ml		0.00
Standard Area 2 = 100748			Recovery = 77.51%				
87) IS1_Phenanthrene-d10	10.269	188	151221	4.000	ug/ml	#	0.00
Standard Area 1 = 155365			Recovery = 97.33%				
99) IS3_Phenanthrene-d10	10.269	188	151221	4.000	ug/ml	#	0.00
Standard Area 2 = 209251			Recovery = 72.27%				
103) IS1_Chrysene-d12	12.810	240	119000	4.000	ug/ml		0.00
Standard Area 1 = 136847			Recovery = 86.96%				
112) IS1_Perylene-d12	14.198	264	131949	4.000	ug/ml		0.00
Standard Area 1 = 150903			Recovery = 87.44%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.793	112	39042	3.782	ug/ml		0.02
Spiked Amount 5.000	Range 15 - 110		Recovery = 75.64%				
7) Phenol-d6	5.169	99	43749	3.290	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 65.80%				
19) Nitrobenzene-d5	6.287	82	27636	2.292	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 91.68%				
45) 2-Fluorobiphenyl	8.239	172	49619	1.890	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 75.60%				
78) 2,4,6-Tribromophenol	9.622	330	14886	4.155	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 83.10%				
95) 4-Terphenyl-d14	11.845	244	63134	1.903	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 76.12%				

Data Path : I:\8270\SV106\231204nalvi\
Data File : 859049-4.D
Acq On : 5 Dec 2023 3:01 am
Operator : SV106:sz
Sample : WG1859049-4,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 17:38:16 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 03:20:55 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	5.210	128	45807	3.885	ug/ml	96
8) Phenol	5.187	94	46646	3.314	ug/ml#	91
9) Bis(2-chloroethyl)ether	5.234	93	44362	3.924	ug/ml#	72
14) Bis(2-chloroisopropyl)...	6.016	45	71957	4.321	ug/ml#	60
15) 2-Methylphenol	6.040	108	36955	3.510	ug/ml	98
17) n-Nitrosodi-n-propylamine	6.181	70	35384	4.142	ug/ml#	92
18) 3-Methylphenol/4-Methy...	6.251	108	42125	3.815	ug/ml#	69
20) Nitrobenzene	6.304	77	51134	4.268	ug/ml	95
21) Isophorone	6.622	82	89388	3.899	ug/ml	93
22) 2-Nitrophenol	6.692	139	23290	4.861	ug/ml#	93
23) 2,4-Dimethylphenol	6.845	107	23476	1.981	ug/ml	97
24) Bis(2-chloroethoxy)met...	6.928	93	58754	4.090	ug/ml#	98
25) 2,4-Dichlorophenol	6.981	162	40289	4.048	ug/ml	98
28) Benzaldehyde	4.781	105	37252	4.337	ug/ml	97
29) Acetophenone	6.122	105	68244	3.698	ug/ml#	83
37) 4-Chloroaniline	7.222	65	13388M3	2.950	ug/ml	
39) p-Chloro-m-cresol	7.786	107	44324	4.424	ug/ml	91
42) Hexachlorocyclopentadiene	8.028	237	19285	2.559	ug/ml	98
43) 2,4,6-Trichlorophenol	8.157	196	30130	4.202	ug/ml	98
44) 2,4,5-Trichlorophenol	8.186	196	32714	4.242	ug/ml	98
47) 2-Nitroaniline	8.451	138	31189	4.909	ug/ml	95
50) Dimethyl phthalate	8.669	163	112976	4.174	ug/ml#	98
52) 2,6-Dinitrotoluene	8.704	165	22759	4.428	ug/ml#	80
59) Caprolactam	7.545	55	13093	2.598	ug/ml#	80
60) 1,2,4,5-Tetrachloroben...	8.016	216	41044	3.432	ug/ml	98
61) Biphenyl	8.328	154	111524	3.791	ug/ml	100
63) 3-Nitroaniline	8.851	138	21931	3.926	ug/ml#	95
65) 2,4-Dinitrophenol	8.951	184	13932	5.530	ug/ml	96
66) Dibenzofuran	9.057	168	127488	3.864	ug/ml#	73
67) 2,4-Dinitrotoluene	9.086	165	33648	4.782	ug/ml	93
68) 4-Nitrophenol	9.075	65	26787	5.050	ug/ml#	1
70) 2,3,4,6-Tetrachlorophenol	9.204	232	26657	4.050	ug/ml	99
71) Diethyl phthalate	9.363	149	119161	4.314	ug/ml	98
73) 4-Chlorophenyl phenyl ...	9.422	204	46104	3.706	ug/ml	97
74) 4-Nitroaniline	9.433	138	24041	4.264	ug/ml#	88
75) 4,6-Dinitro-o-cresol	9.469	198	19320	5.770	ug/ml#	78

Data Path : I:\8270\SV106\231204nalvi\
Data File : 859049-4.D
Acq On : 5 Dec 2023 3:01 am
Operator : SV106:sz
Sample : WG1859049-4,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 17:38:16 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 03:20:55 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	9.545	169	85811	3.912	ug/ml	95
79)	4-Bromophenyl phenyl e...	9.886	248	28360	3.917	ug/ml	93
86)	Atrazine	10.098	200	33987	5.051	ug/ml#	88
90)	Carbazole	10.522	167	151745	4.051	ug/ml	99
91)	Di-n-butylphthalate	10.945	149	210832	4.395	ug/ml	99
96)	Butyl benzyl phthalate	12.369	149	100536	4.912	ug/ml#	92
105)	3,3'-Dichlorobenzidine	12.827	252	44235	3.152	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	12.992	149	149448	5.653	ug/ml#	89
108)	Di-n-octylphthalate	13.639	149	250883	5.625	ug/ml#	75

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 859049-4.D
Acq On : 5 Dec 2023 3:01 am
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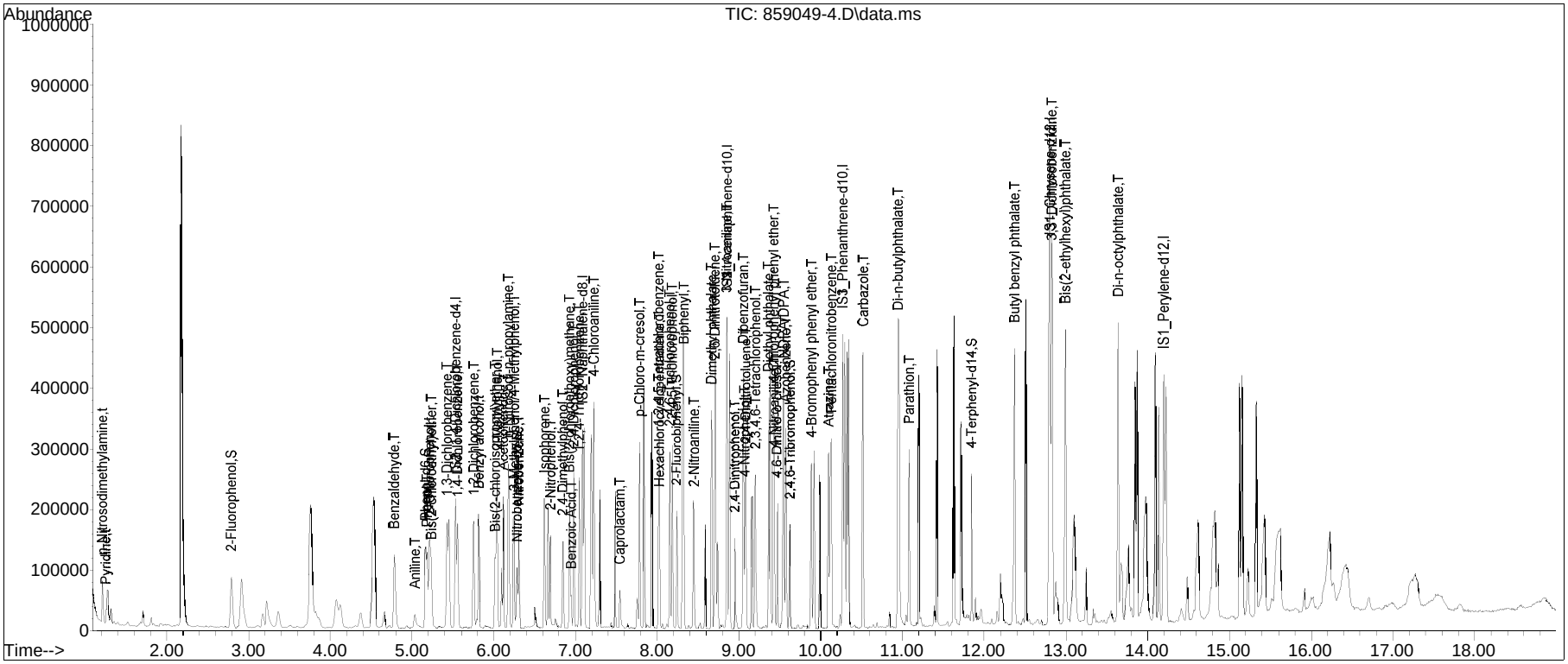
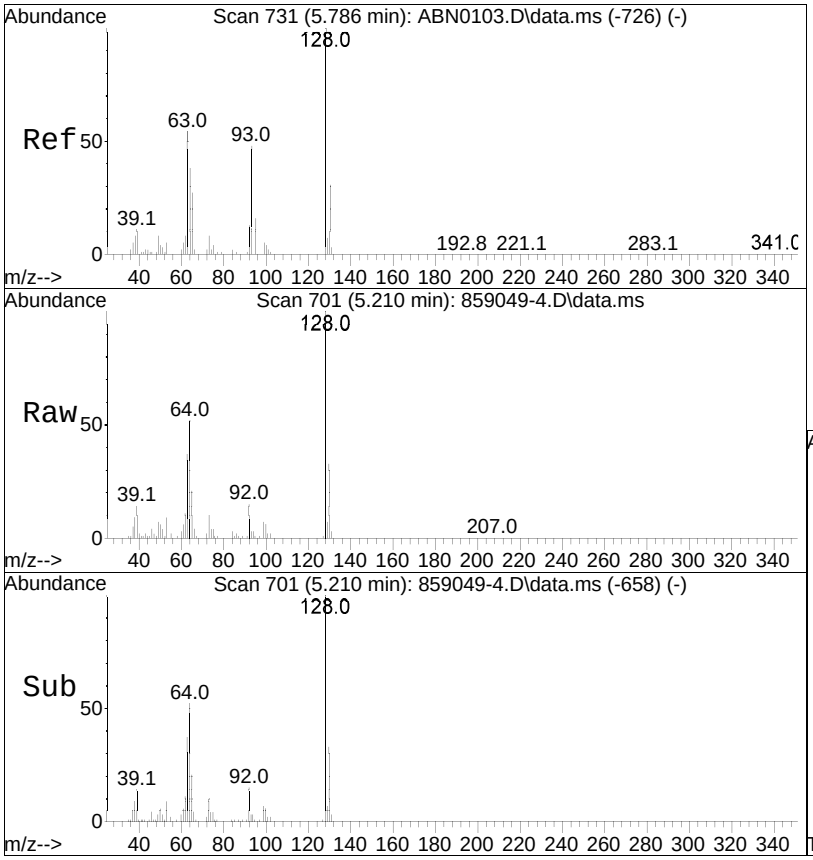
Quant Time: Dec 06 17:38:16 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 03:20:55 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP91204na.D•

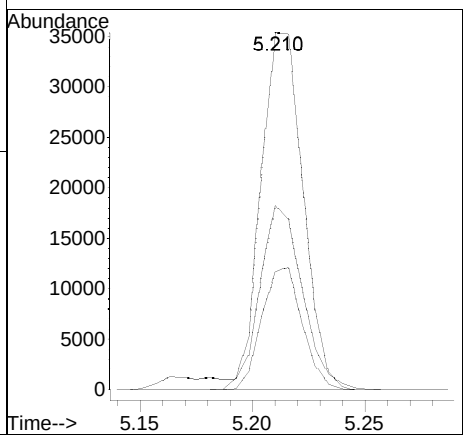


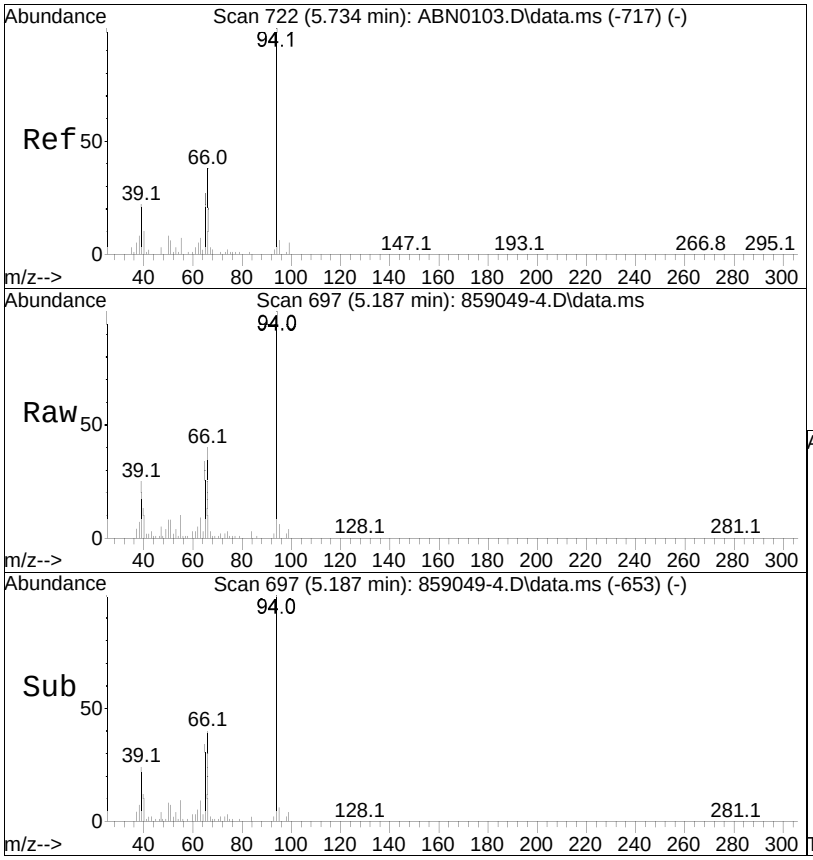


#6
2-Chlorophenol
Concen: 3.89 ug/ml
RT: 5.210 min Scan# 701
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:128 Resp: 45807

Ion	Ratio	Lower	Upper
128	100		
64	52.4	45.1	67.7
130	33.1	26.2	39.4

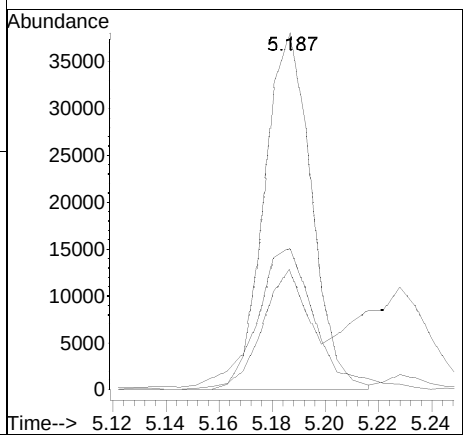


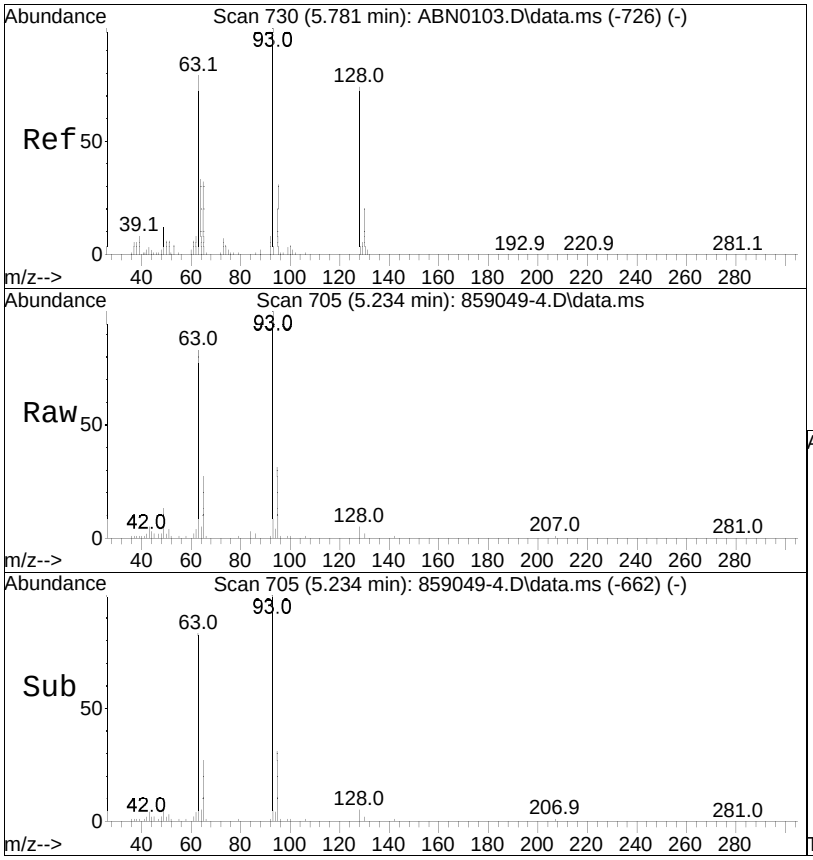


#8
Phenol
Concen: 3.31 ug/ml
RT: 5.187 min Scan# 697
Delta R.T. 0.006 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion: 94 Resp: 46646

Ion	Ratio	Lower	Upper
94	100		
65	34.2	26.0	39.0
66	50.8	33.8	50.8#

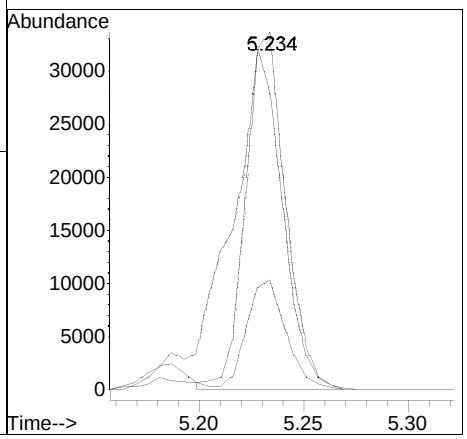


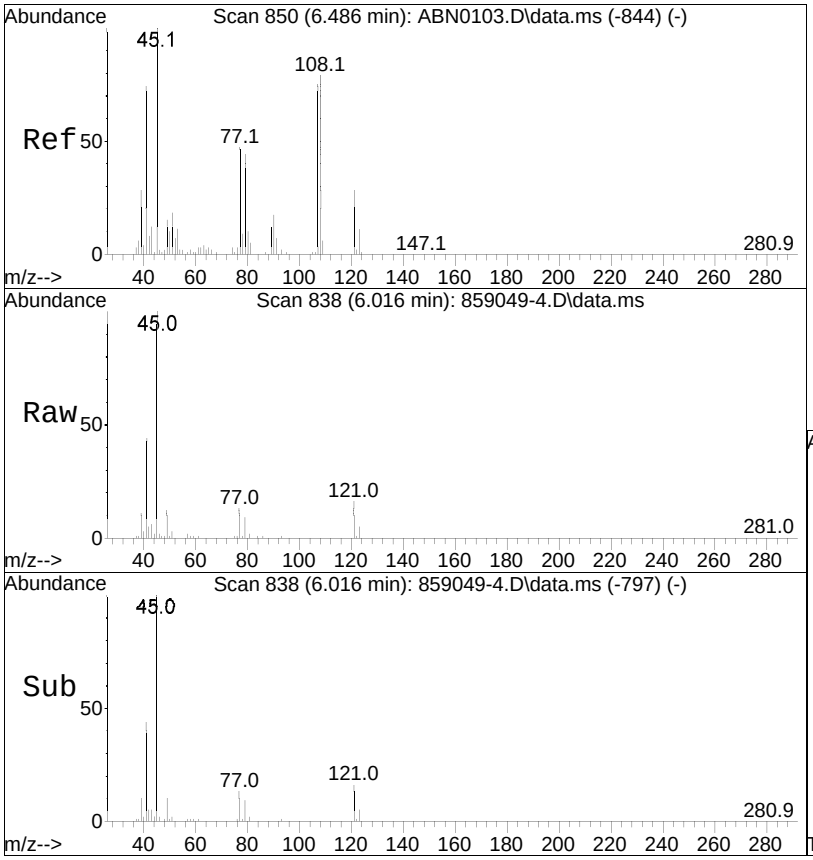


#9
Bis(2-chloroethyl)ether
Concen: 3.92 ug/ml
RT: 5.234 min Scan# 705
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion: 93 Resp: 44362

Ion	Ratio	Lower	Upper
93	100		
63	128.5	74.6	111.8#
95	30.3	25.9	38.9

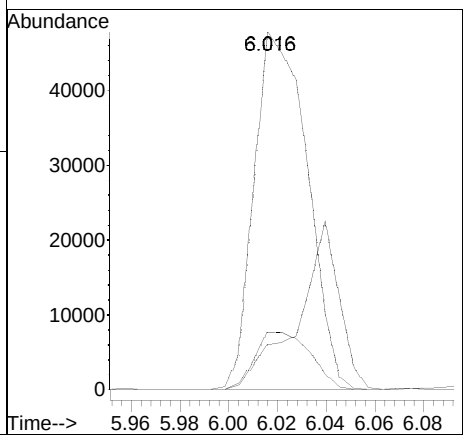


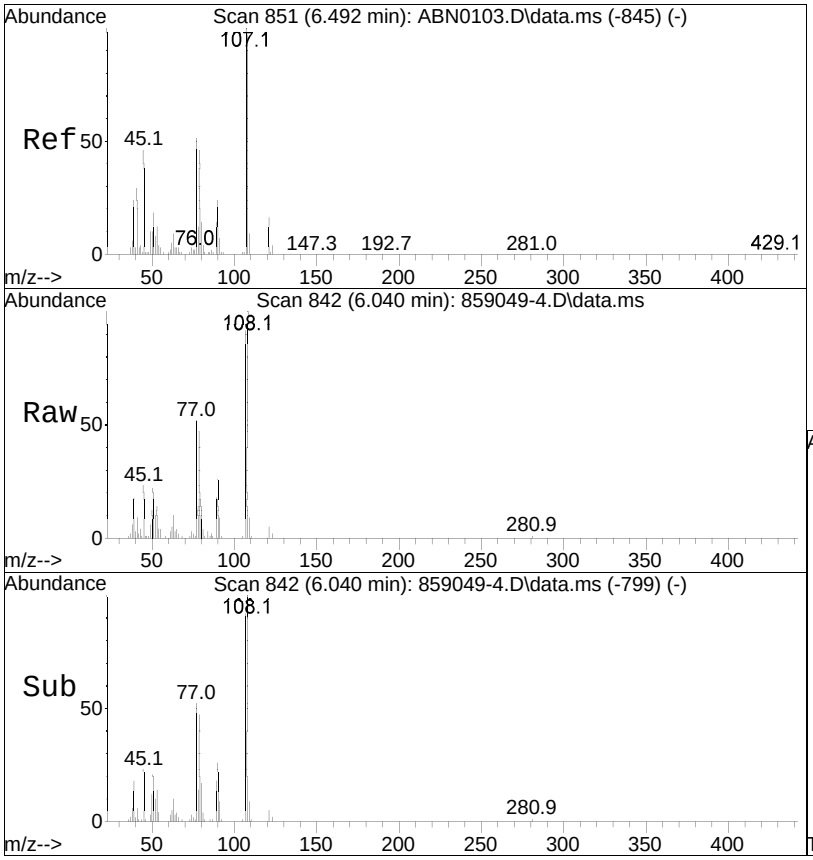


#14
Bis(2-chloroisopropyl)ether
Concen: 4.32 ug/ml
RT: 6.016 min Scan# 838
Delta R.T. -0.012 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion: 45 Resp: 71957

Ion	Ratio	Lower	Upper
45	100		
121	16.8	9.8	14.6#
77	37.1	6.1	9.1#

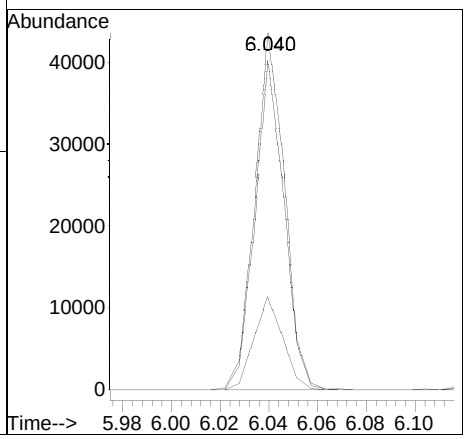


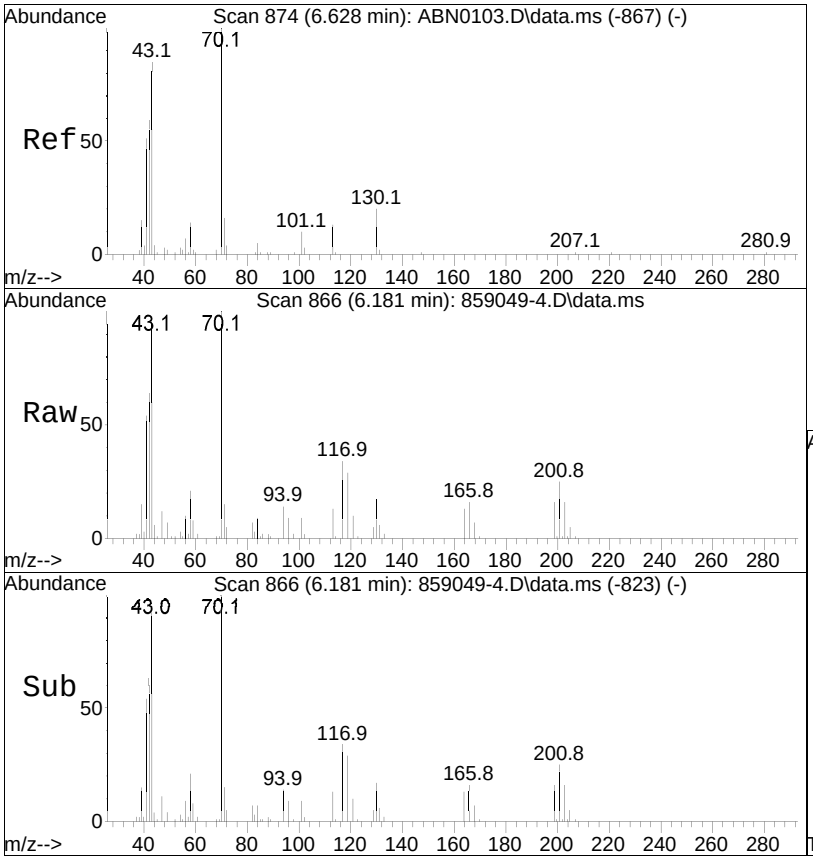


#15
2-Methylphenol
Concen: 3.51 ug/ml
RT: 6.040 min Scan# 842
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:108 Resp: 36955

Ion	Ratio	Lower	Upper
108	100		
107	89.7	70.7	106.1
90	25.4	18.7	28.1

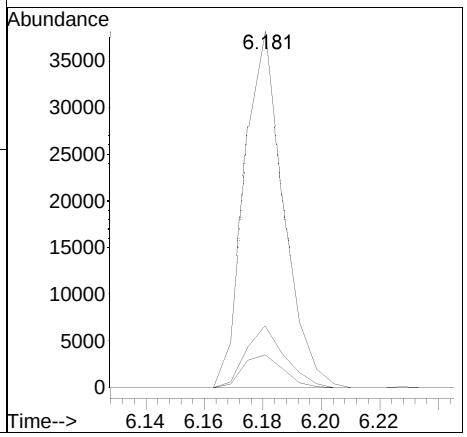


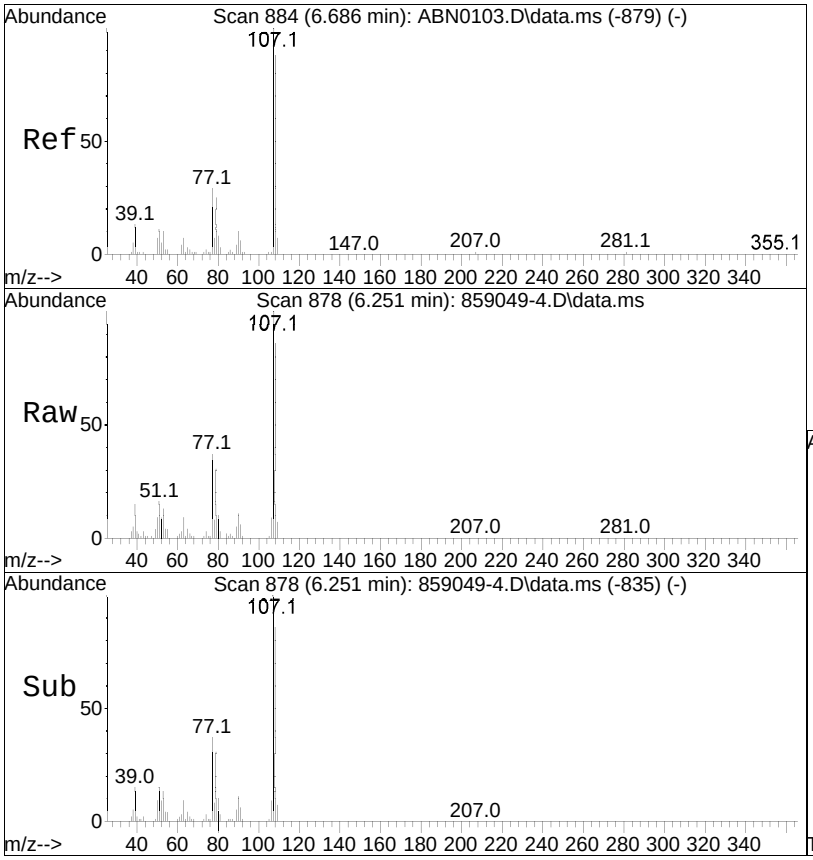


#17
n-Nitrosodi-n-propylamine
Concen: 4.14 ug/ml
RT: 6.181 min Scan# 866
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion: 70 Resp: 35384

Ion	Ratio	Lower	Upper
70	100		
130	17.2	18.2	27.4#
101	9.5	7.8	11.8

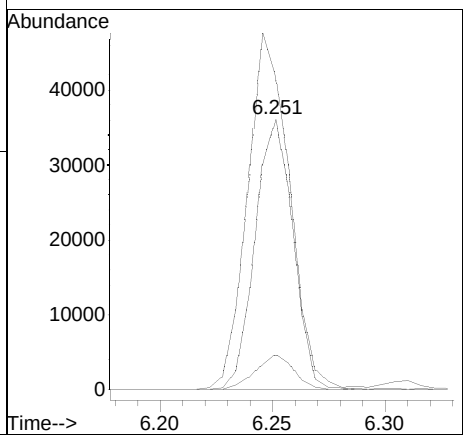


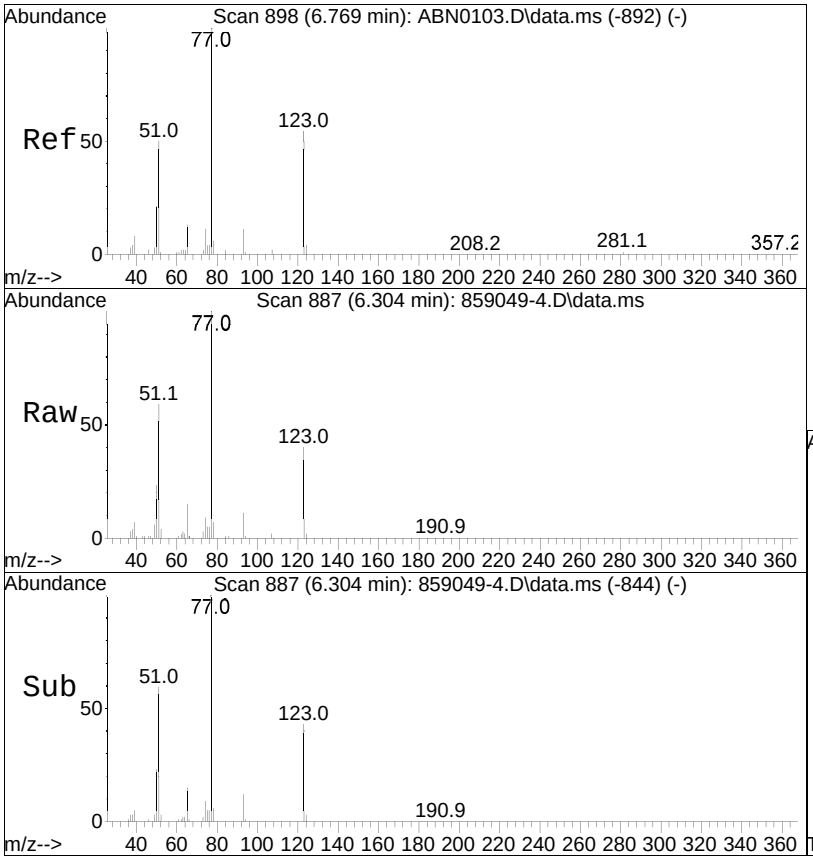


#18
3-Methylphenol/4-Methylphenol
Concen: 3.81 ug/ml
RT: 6.251 min Scan# 878
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:108 Resp: 42125

Ion	Ratio	Lower	Upper
108	100		
107	146.3	88.6	132.8#
90	12.9	8.8	13.2

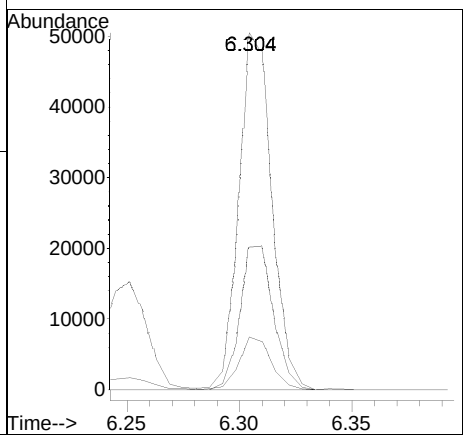


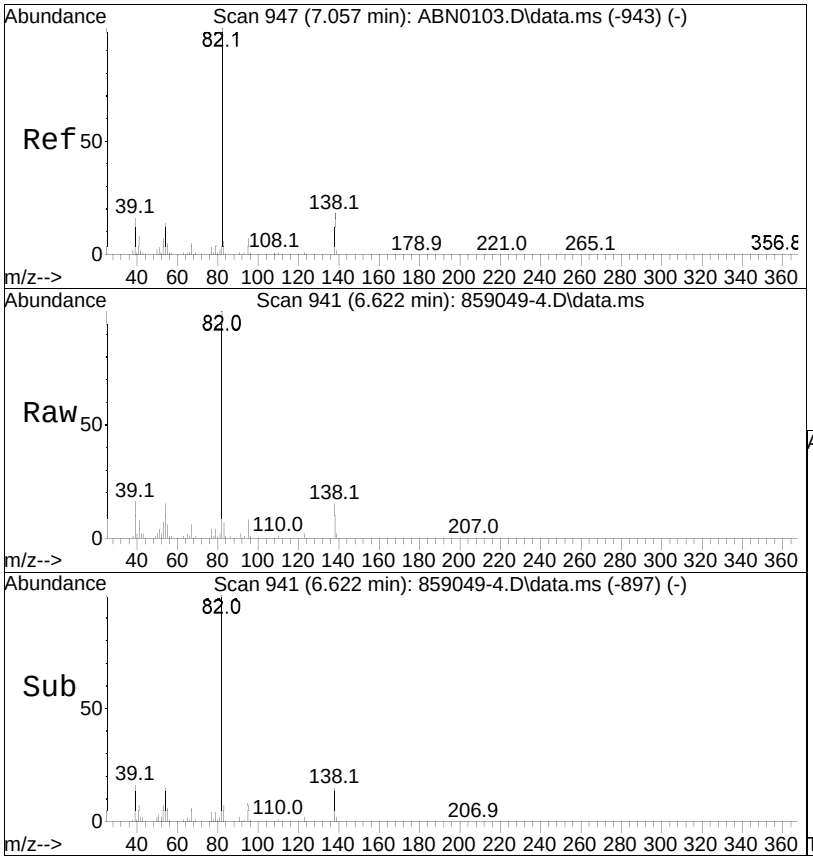


#20
Nitrobenzene
Concen: 4.27 ug/ml
RT: 6.304 min Scan# 887
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion: 77 Resp: 51134

Ion	Ratio	Lower	Upper
77	100		
123	41.1	36.3	54.5
65	14.6	11.6	17.4

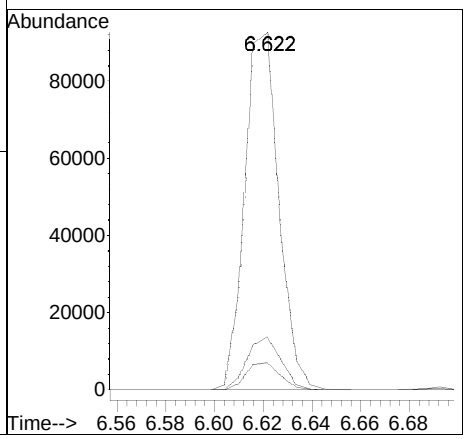


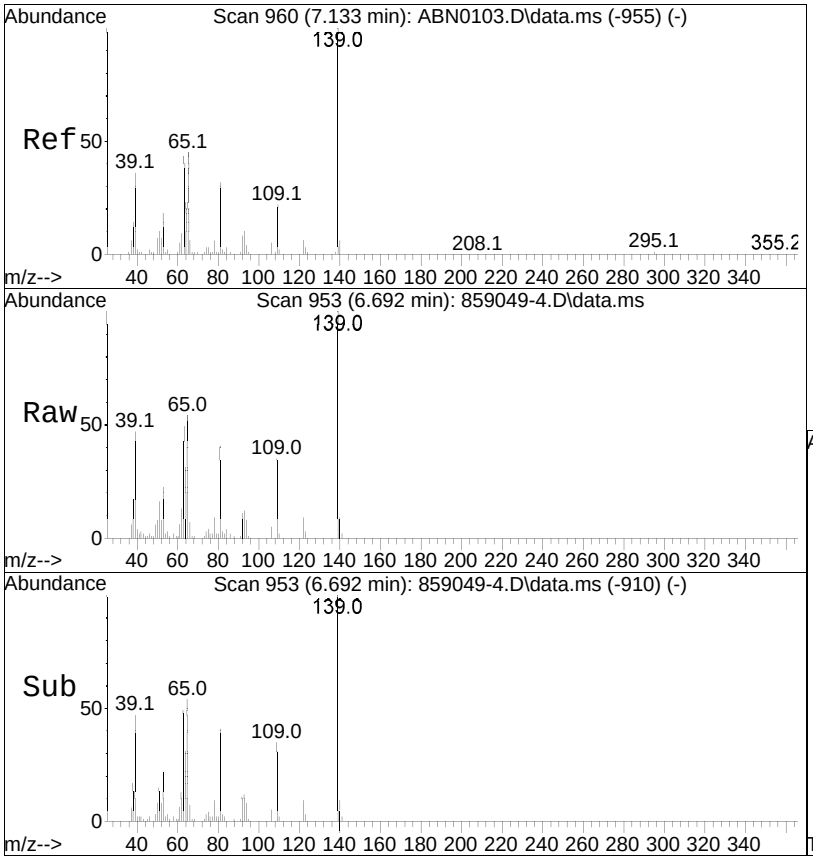


#21
Isophorone
Concen: 3.90 ug/ml
RT: 6.622 min Scan# 941
Delta R.T. 0.006 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion: 82 Resp: 89388

Ion	Ratio	Lower	Upper
82	100		
138	14.8	14.7	22.1
95	7.7	5.2	7.8

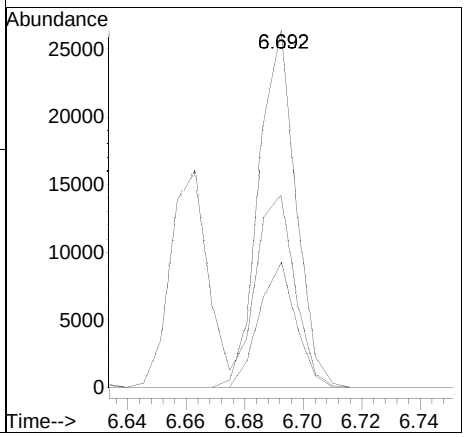


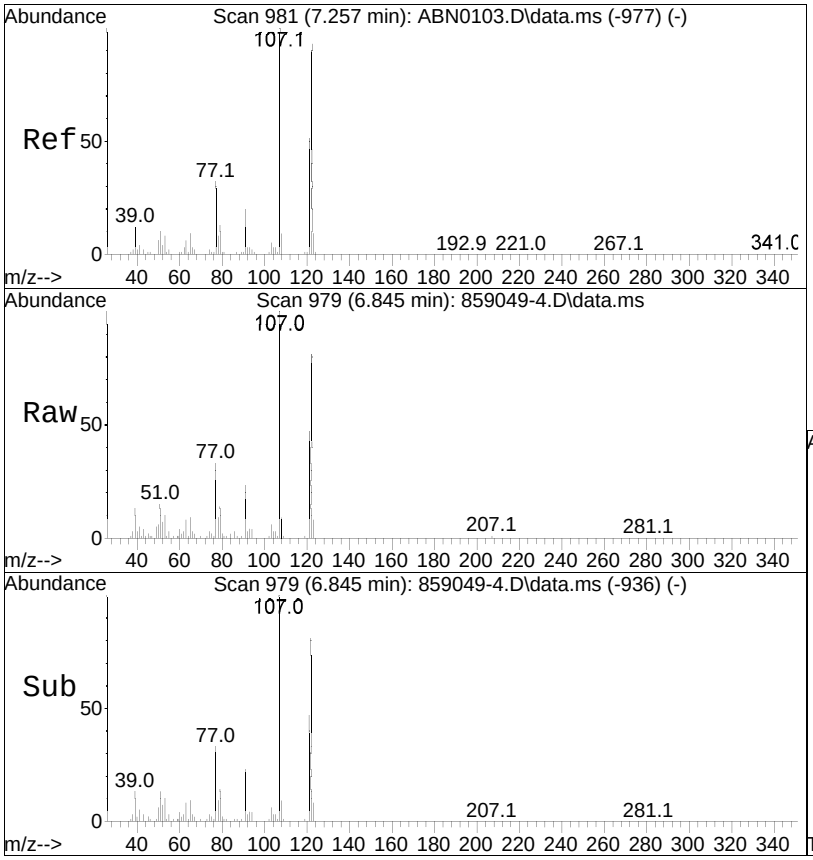


#22
2-Nitrophenol
Concen: 4.86 ug/ml
RT: 6.692 min Scan# 953
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:139 Resp: 23290

Ion	Ratio	Lower	Upper
139	100		
109	34.9	19.4	29.0#
65	56.7	46.1	69.1

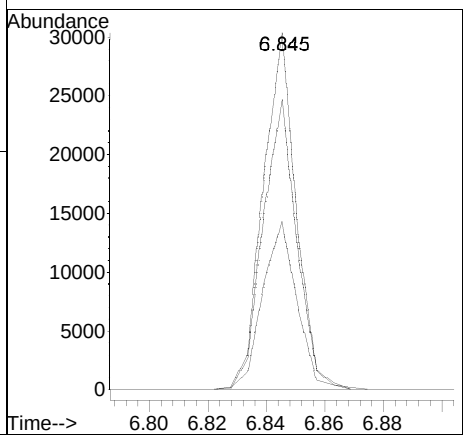


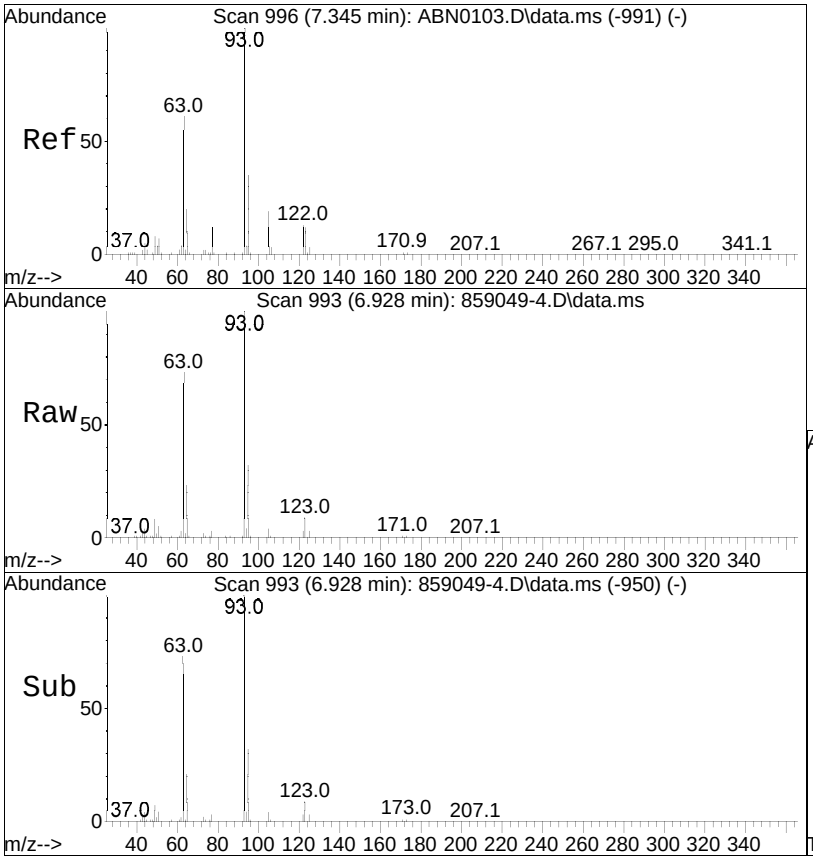


#23
2,4-Dimethylphenol
Concen: 1.98 ug/ml
RT: 6.845 min Scan# 979
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:107 Resp: 23476

Ion	Ratio	Lower	Upper
107	100		
121	49.3	40.0	60.0
122	83.4	70.2	105.4

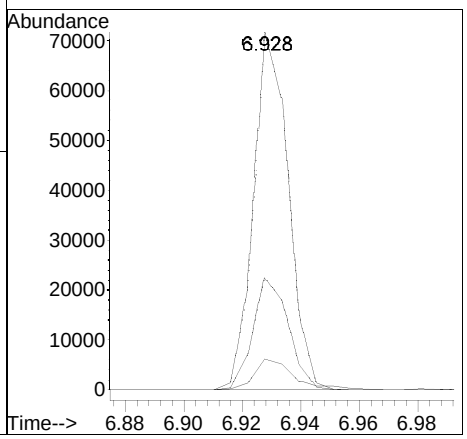


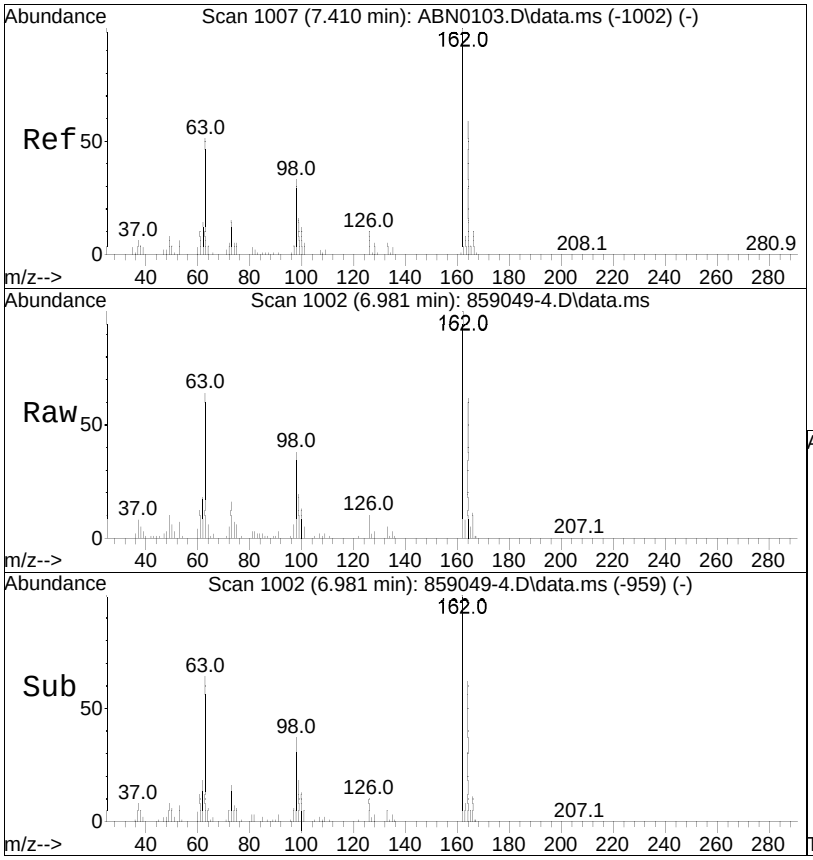


#24
Bis(2-chloroethoxy)methane
Concen: 4.09 ug/ml
RT: 6.928 min Scan# 993
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion: 93 Resp: 58754

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.8
123	9.8	10.1	15.1#

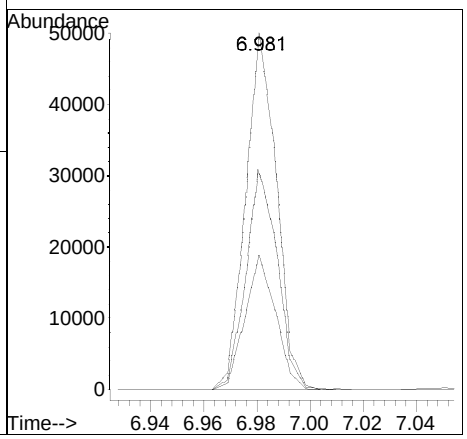


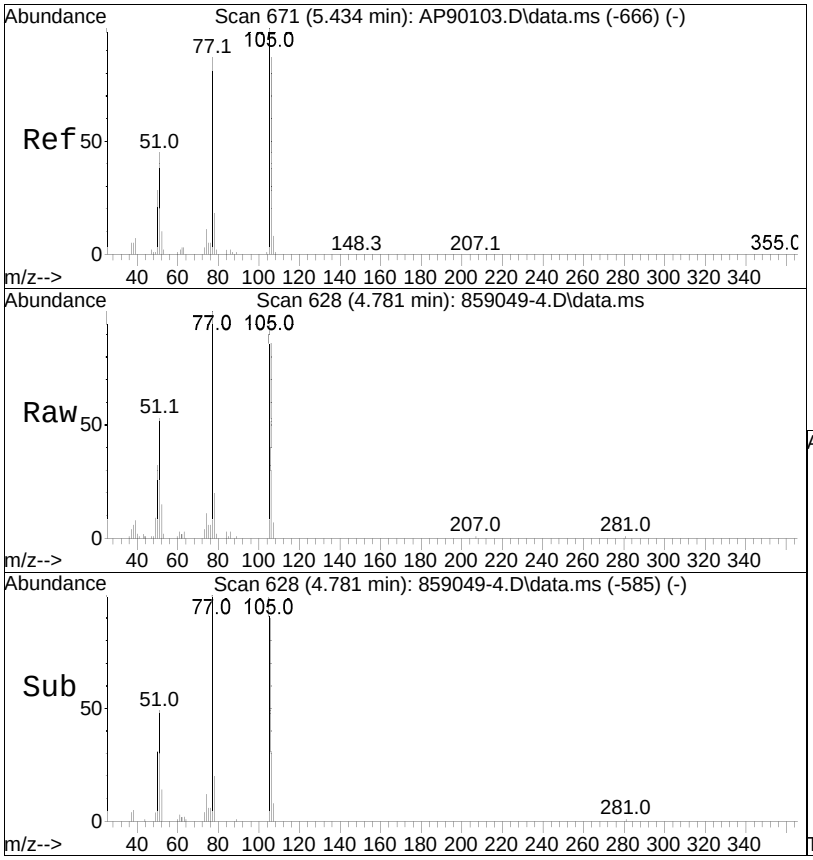


#25
2,4-Dichlorophenol
Concen: 4.05 ug/ml
RT: 6.981 min Scan# 1002
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:162 Resp: 40289

Ion	Ratio	Lower	Upper
162	100		
164	62.9	51.0	76.4
98	37.6	32.2	48.2

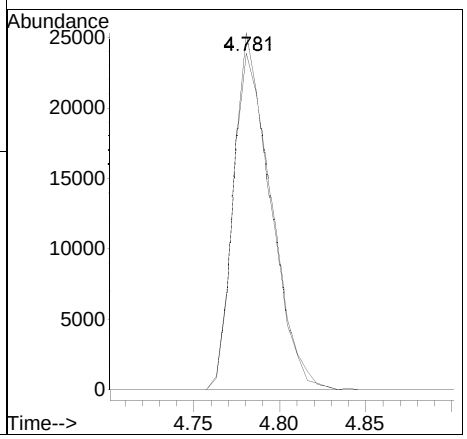


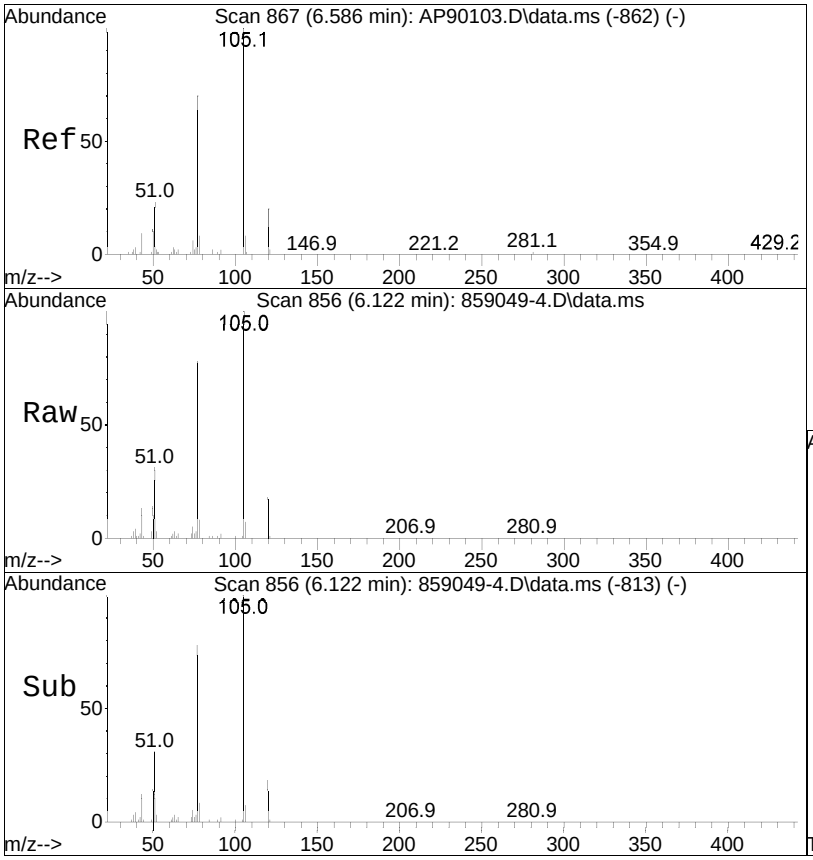


#28
Benzaldehyde
Concen: 4.34 ug/ml
RT: 4.781 min Scan# 628
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:105 Resp: 37252

Ion	Ratio	Lower	Upper
105	100		
77	99.8	82.2	123.4

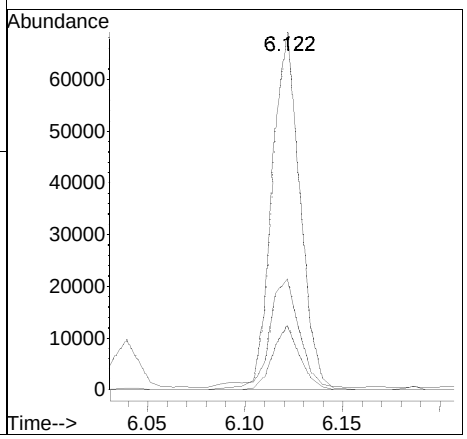


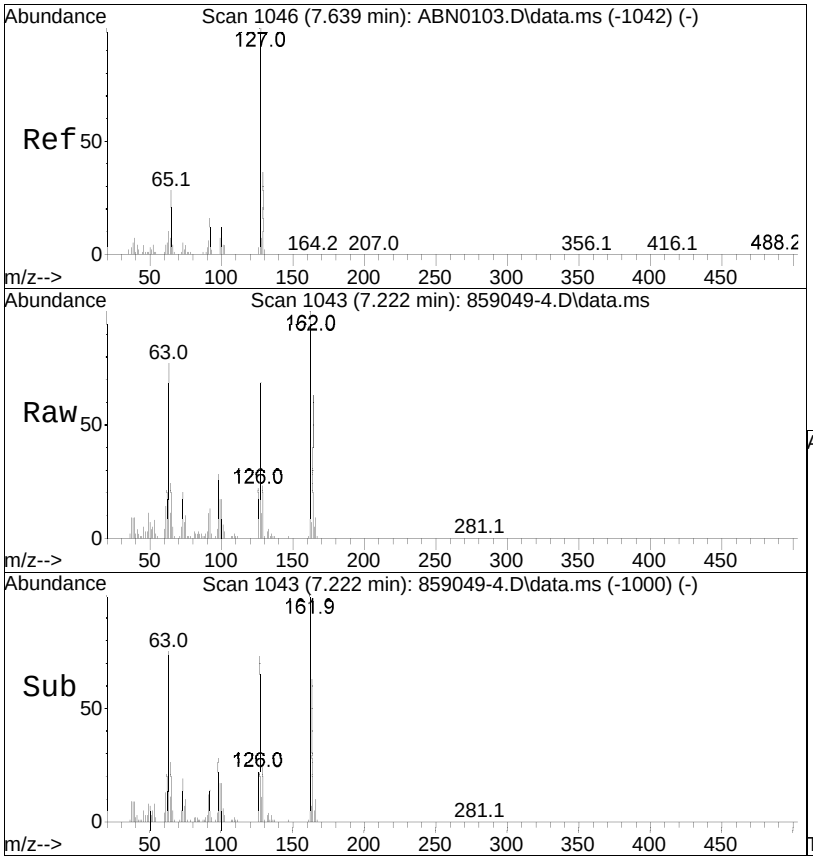


#29
Acetophenone
Concen: 3.70 ug/ml
RT: 6.122 min Scan# 856
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:105 Resp: 68244

Ion	Ratio	Lower	Upper
105	100		
120	17.3	20.5	30.7#
51	32.7	34.9	52.3#

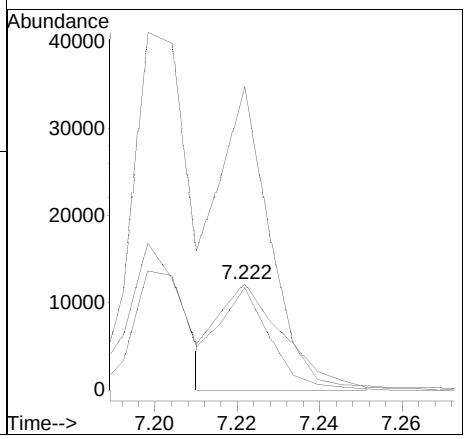


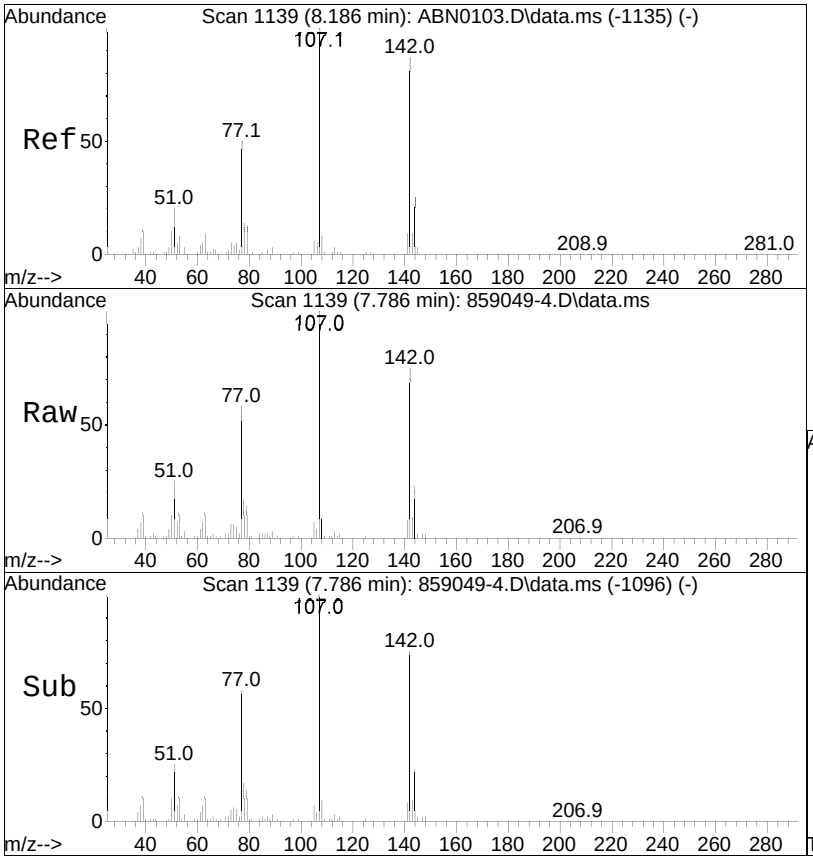


#37
4-Chloroaniline
Concen: 2.95 ug/ml M3
RT: 7.222 min Scan# 1043
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion: 65 Resp: 13388

Ion	Ratio	Lower	Upper
65	100		
127	286.0	237.6	356.4
129	93.3	76.3	114.5

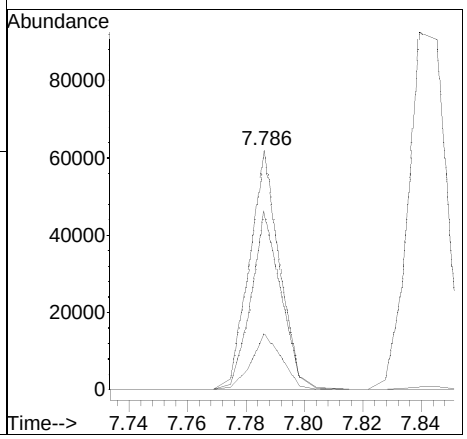


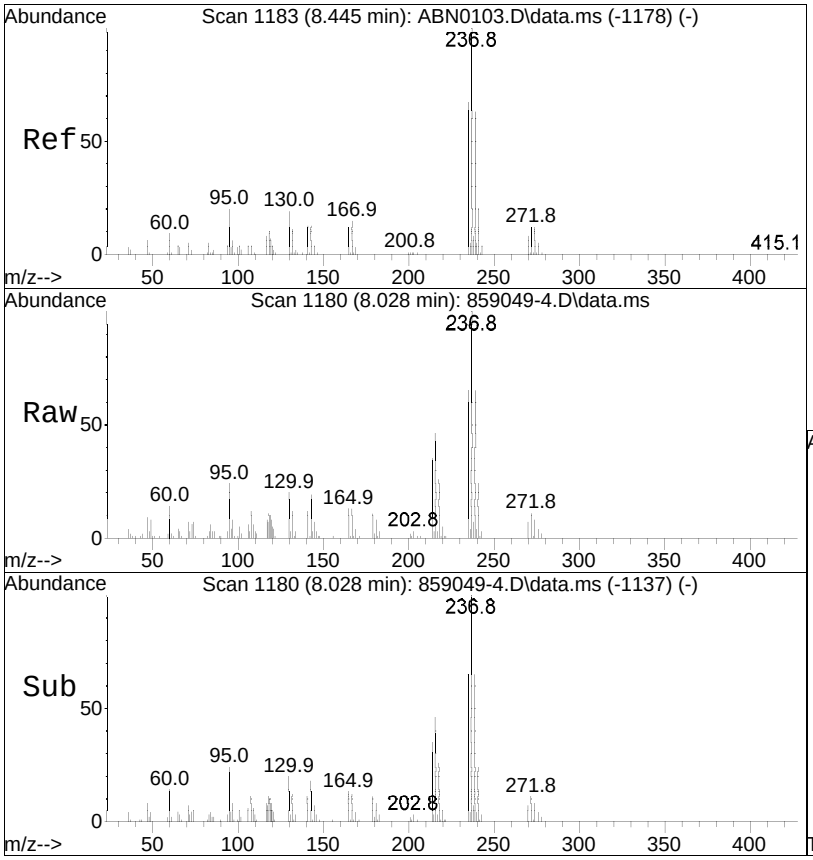


#39
p-Chloro-m-cresol
Concen: 4.42 ug/ml
RT: 7.786 min Scan# 1139
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:107 Resp: 44324

Ion	Ratio	Lower	Upper
107	100		
144	23.5	20.9	31.3
142	73.7	66.1	99.1

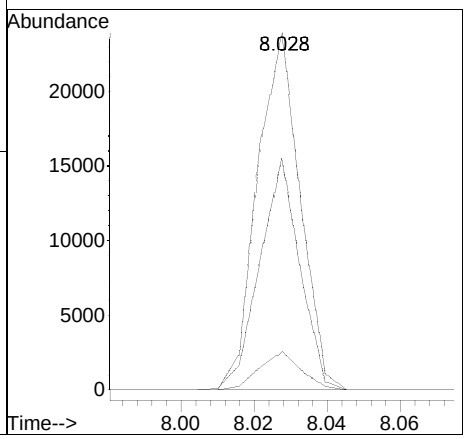


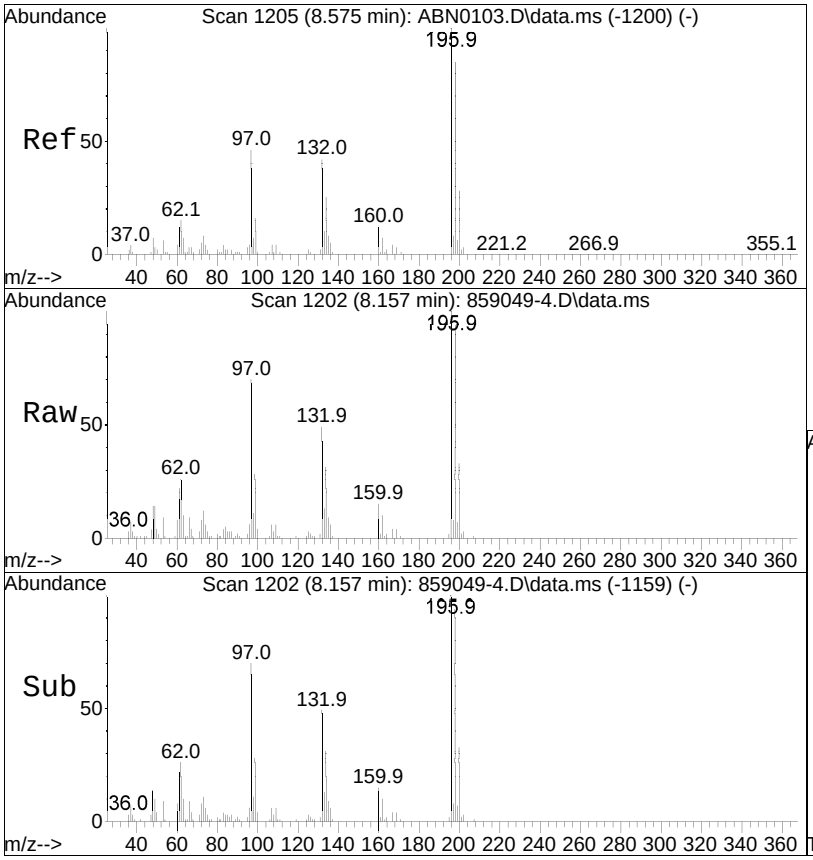


#42
Hexachlorocyclopentadiene
Concen: 2.56 ug/ml
RT: 8.028 min Scan# 1180
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:237 Resp: 19285

Ion	Ratio	Lower	Upper
237	100		
235	61.1	49.7	74.5
272	10.5	9.8	14.6

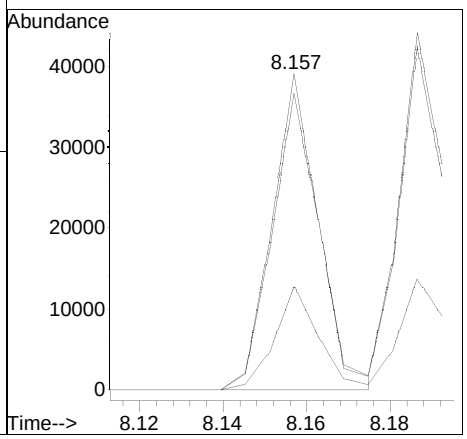


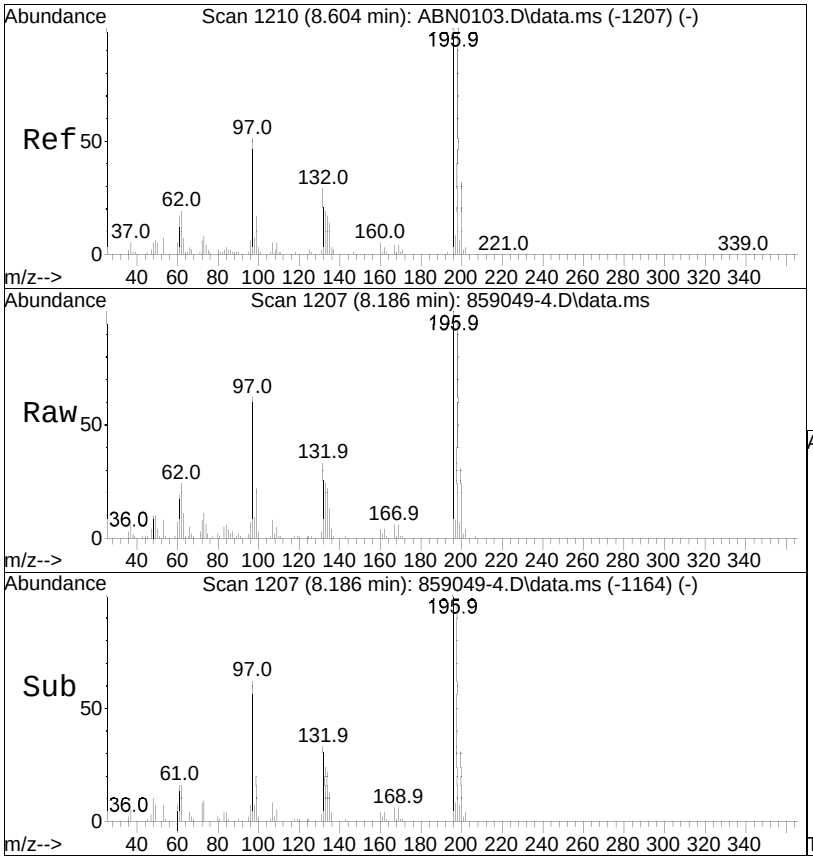


#43
2,4,6-Trichlorophenol
Concen: 4.20 ug/ml
RT: 8.157 min Scan# 1202
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:196 Resp: 30130

Ion	Ratio	Lower	Upper
196	100		
198	95.1	77.5	116.3
200	31.3	23.8	35.6

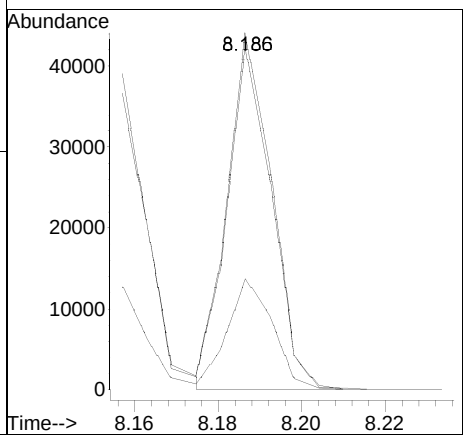


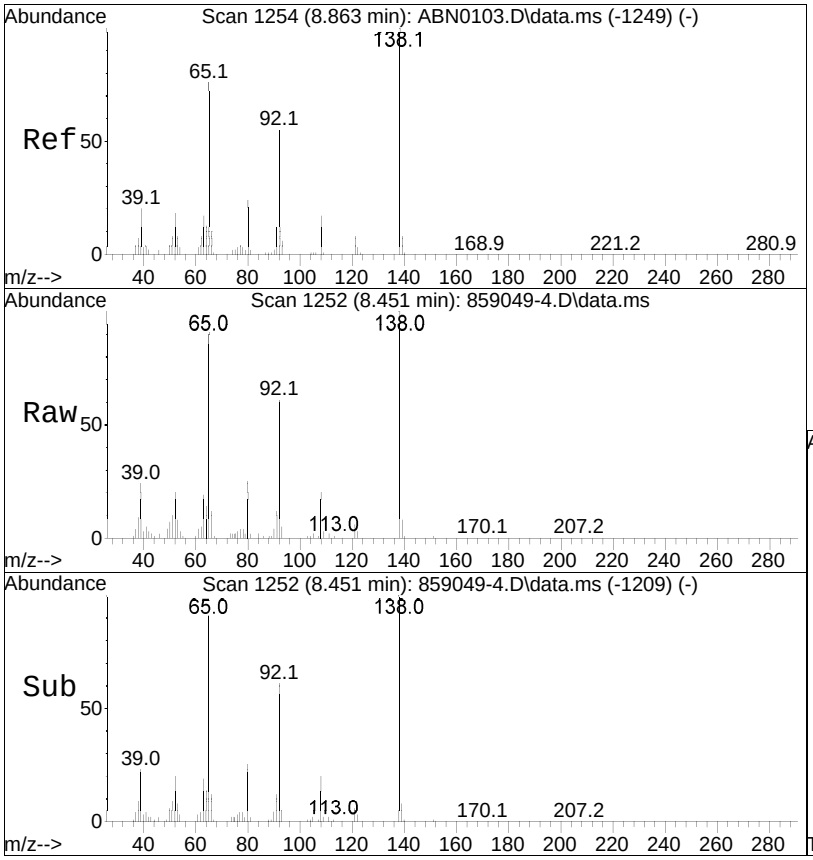


#44
2,4,5-Trichlorophenol
Concen: 4.24 ug/ml
RT: 8.186 min Scan# 1207
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:196 Resp: 32714

Ion	Ratio	Lower	Upper
196	100		
200	31.6	25.4	38.0
198	95.4	78.0	117.0

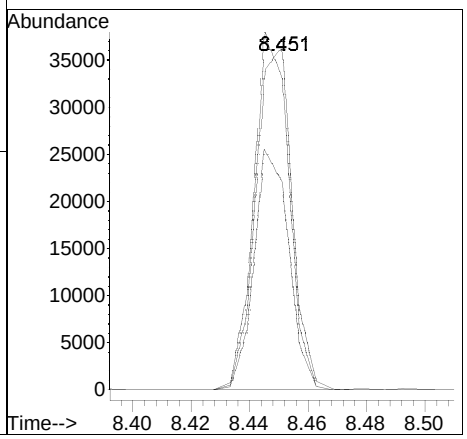


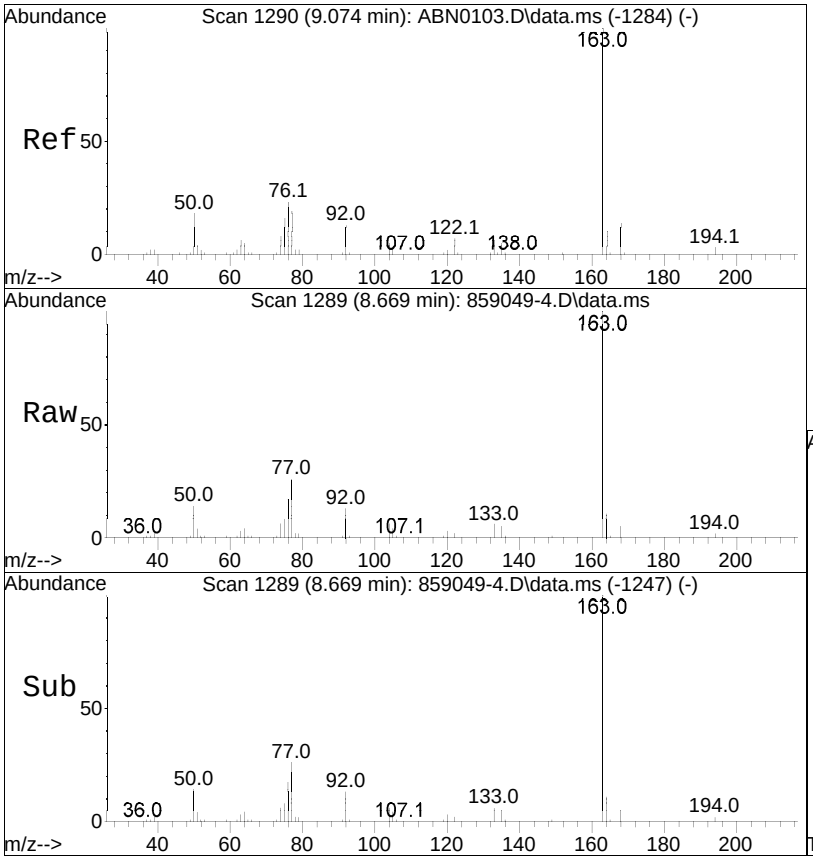


#47
2-Nitroaniline
Concen: 4.91 ug/ml
RT: 8.451 min Scan# 1252
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:138 Resp: 31189

Ion	Ratio	Lower	Upper
138	100		
92	67.3	53.5	80.3
65	100.5	86.3	129.5

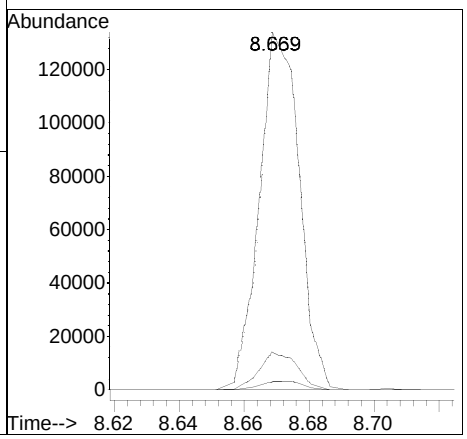


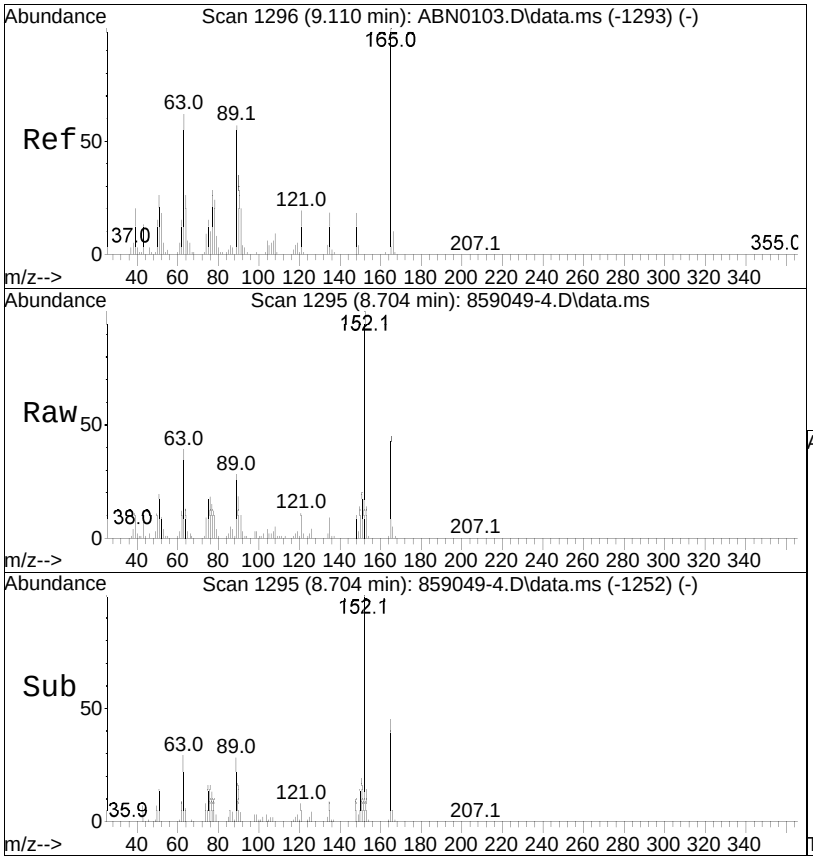


#50
Dimethyl phthalate
Concen: 4.17 ug/ml
RT: 8.669 min Scan# 1289
Delta R.T. -0.006 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:163 Resp: 112976

Ion	Ratio	Lower	Upper
163	100		
194	2.7	3.5	5.3#
164	10.2	7.9	11.9

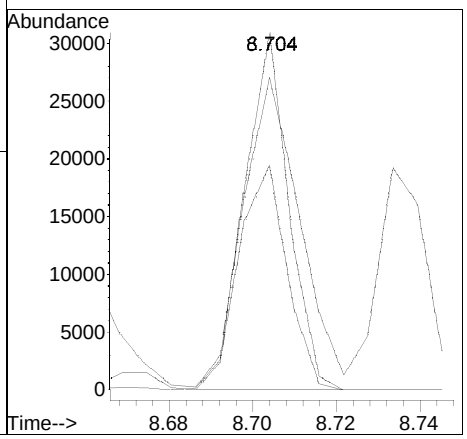


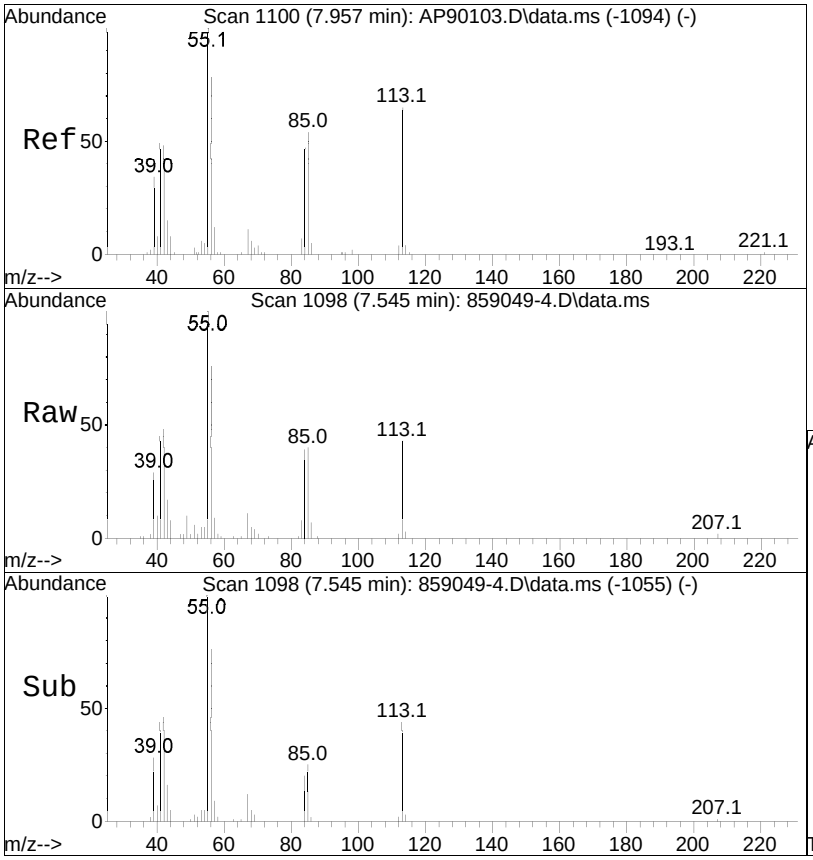


#52
2,6-Dinitrotoluene
Concen: 4.43 ug/ml
RT: 8.704 min Scan# 1295
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:165 Resp: 22759

Ion	Ratio	Lower	Upper
165	100		
89	68.9	54.2	81.2
63	112.4	64.2	96.2#

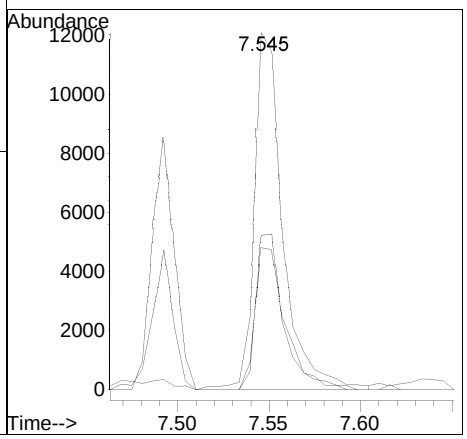


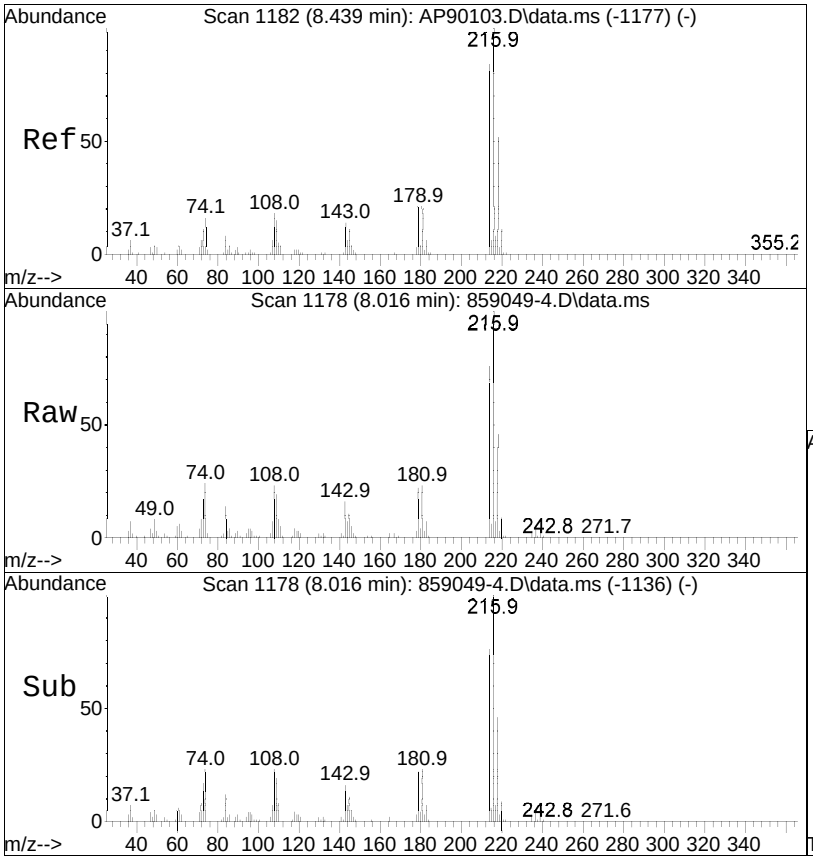


#59
Caprolactam
Concen: 2.60 ug/ml
RT: 7.545 min Scan# 1098
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion: 55 Resp: 13093

Ion	Ratio	Lower	Upper
55	100		
85	42.8	19.8	29.6#
113	42.6	29.6	44.4

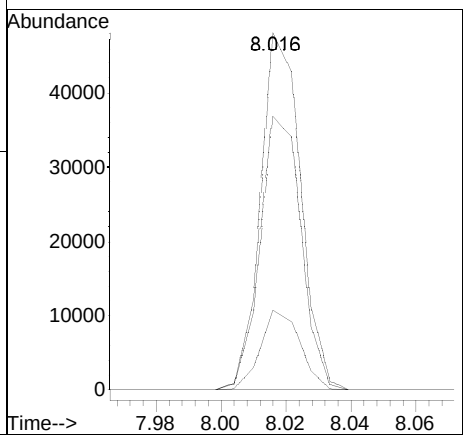


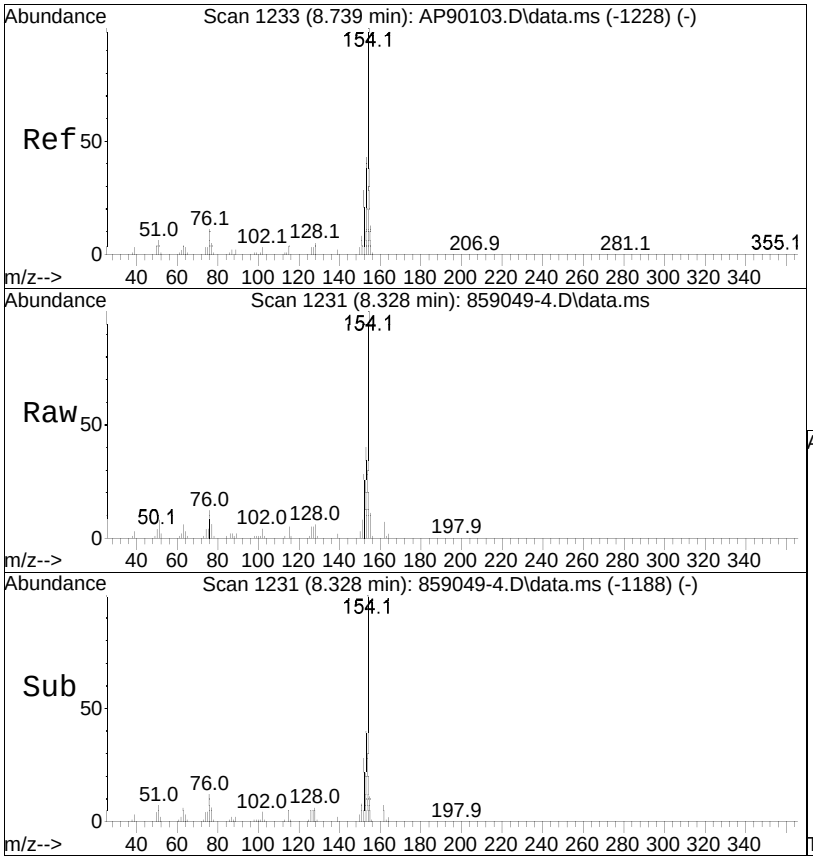


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.43 ug/ml
RT: 8.016 min Scan# 1178
Delta R.T. -0.006 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:216 Resp: 41044

Ion	Ratio	Lower	Upper
216	100		
214	78.5	63.7	95.5
179	22.2	19.0	28.6

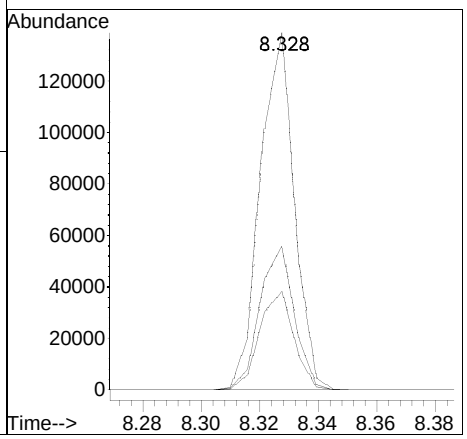


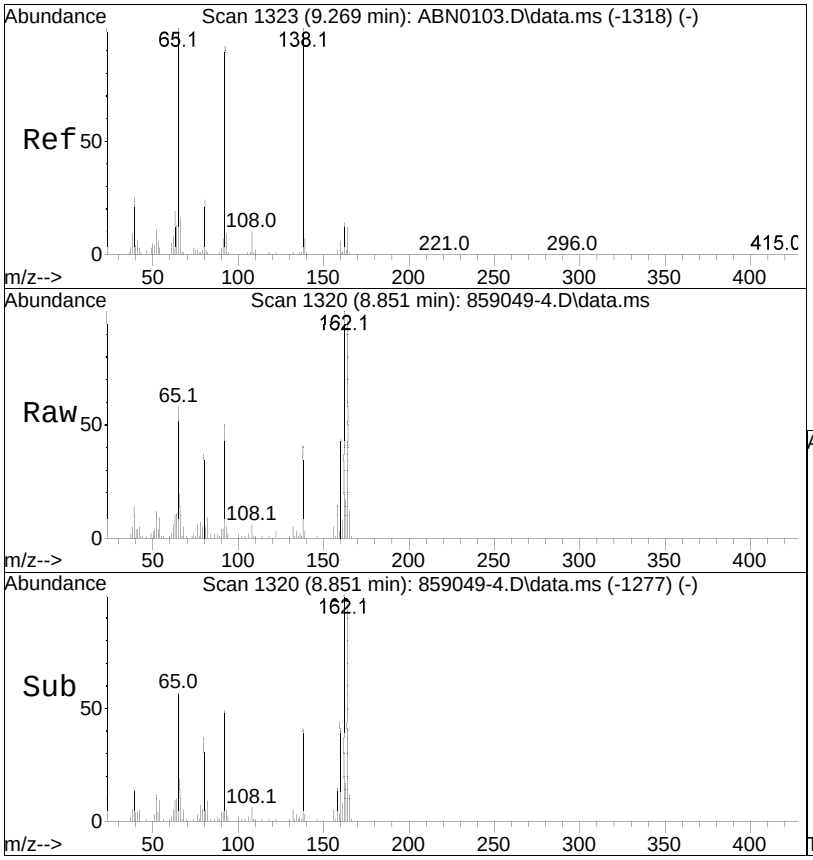


#61
Biphenyl
Concen: 3.79 ug/ml
RT: 8.328 min Scan# 1231
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:154 Resp: 111524

Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.3	48.5
152	28.1	22.5	33.7

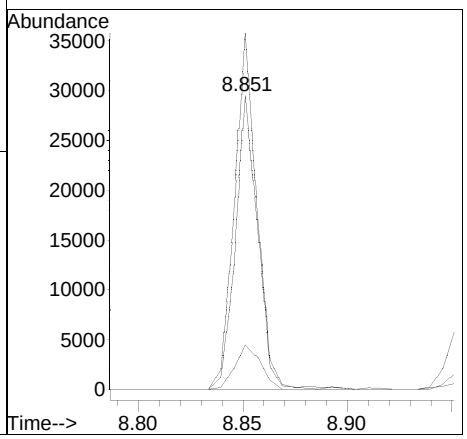


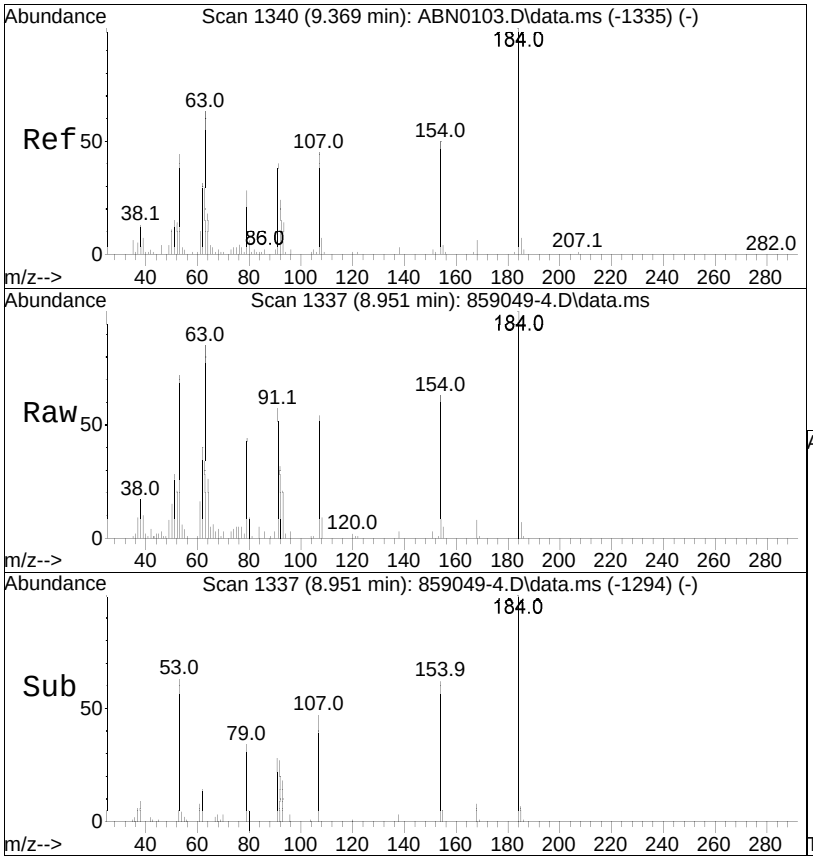


#63
3-Nitroaniline
Concen: 3.93 ug/ml
RT: 8.851 min Scan# 1320
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:138 Resp: 21931

Ion	Ratio	Lower	Upper
138	100		
92	121.1	93.4	140.2
108	17.4	9.5	14.3#

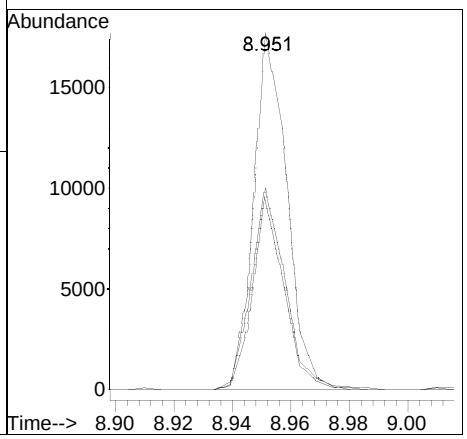


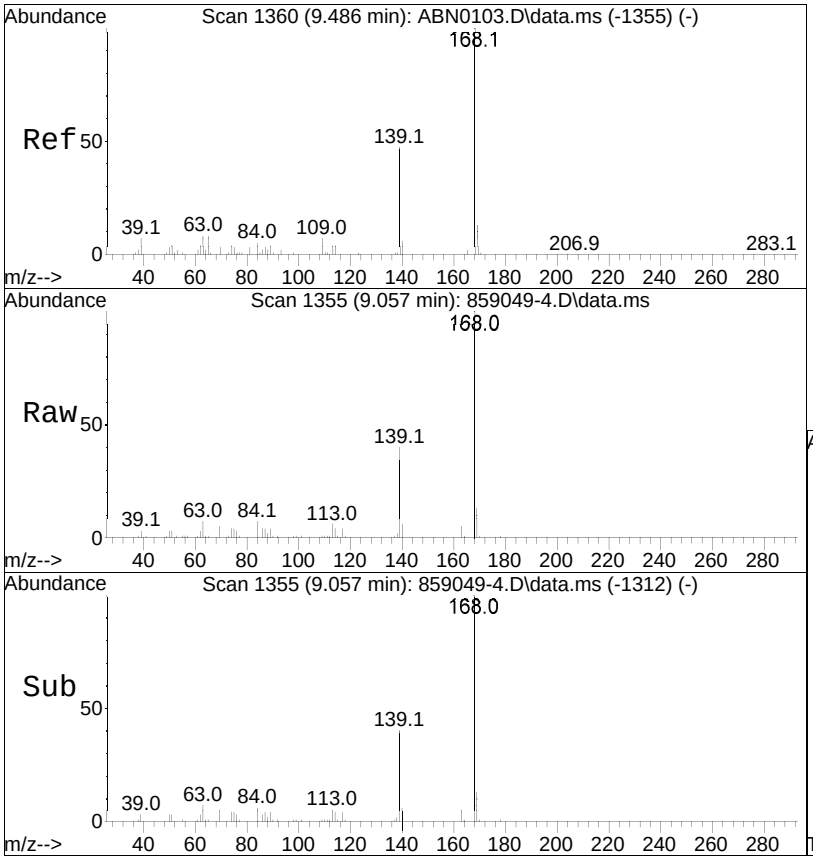


#65
2,4-Dinitrophenol
Concen: 5.53 ug/ml
RT: 8.951 min Scan# 1337
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:184 Resp: 13932

Ion	Ratio	Lower	Upper
184	100		
107	51.6	37.7	56.5
91	58.8	46.3	69.5

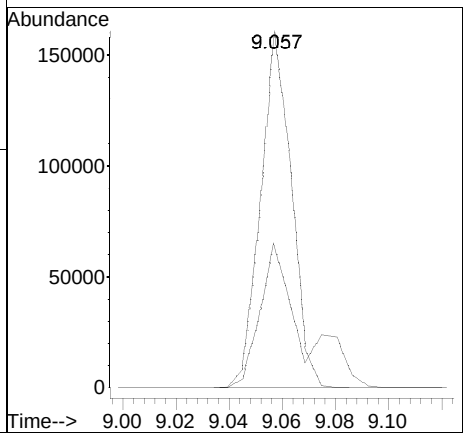


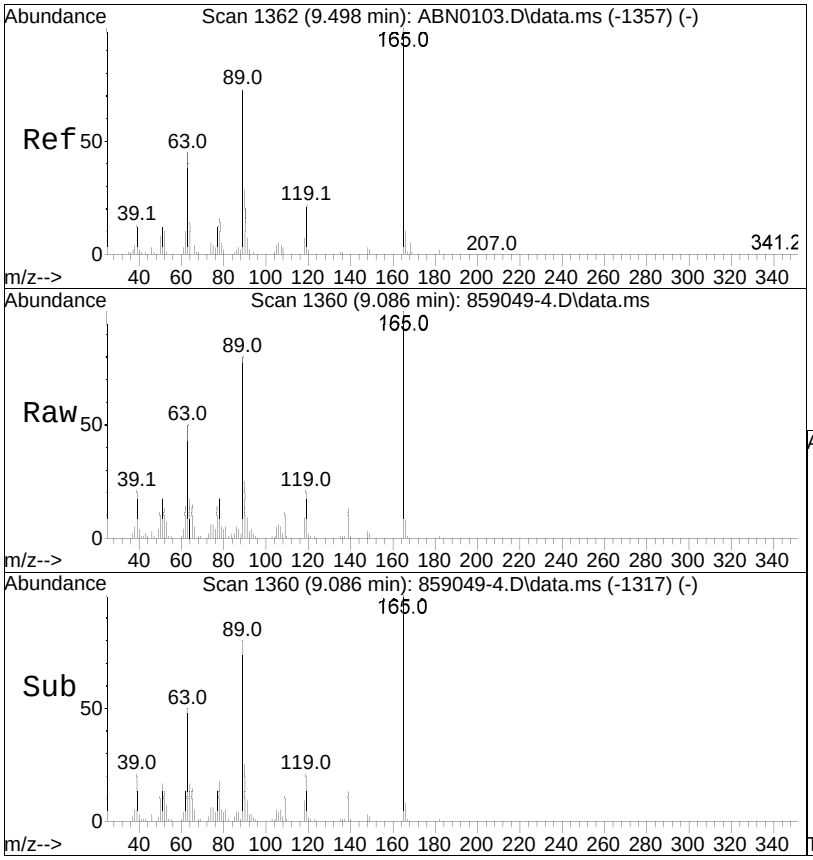


#66
Dibenzofuran
Concen: 3.86 ug/ml
RT: 9.057 min Scan# 1355
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:168 Resp: 127488

Ion	Ratio	Lower	Upper
168	100		
139	56.1	31.4	47.2#

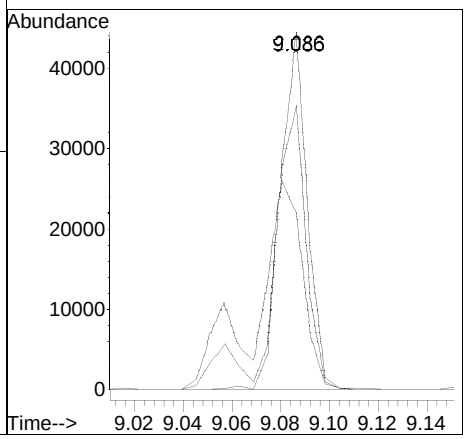


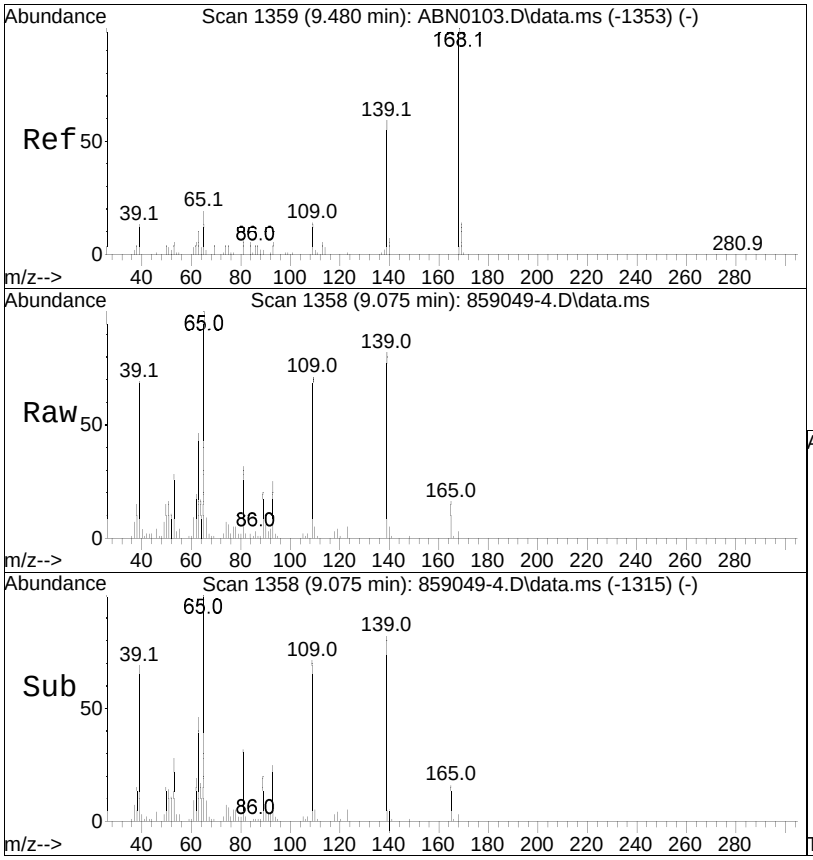


#67
2,4-Dinitrotoluene
Concen: 4.78 ug/ml
RT: 9.086 min Scan# 1360
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:165 Resp: 33648

Ion	Ratio	Lower	Upper
165	100		
89	84.1	72.0	108.0
63	72.1	52.7	79.1

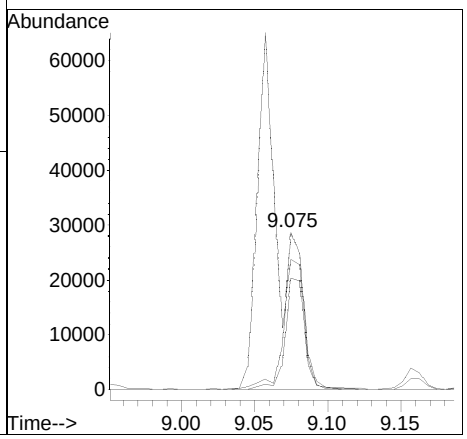


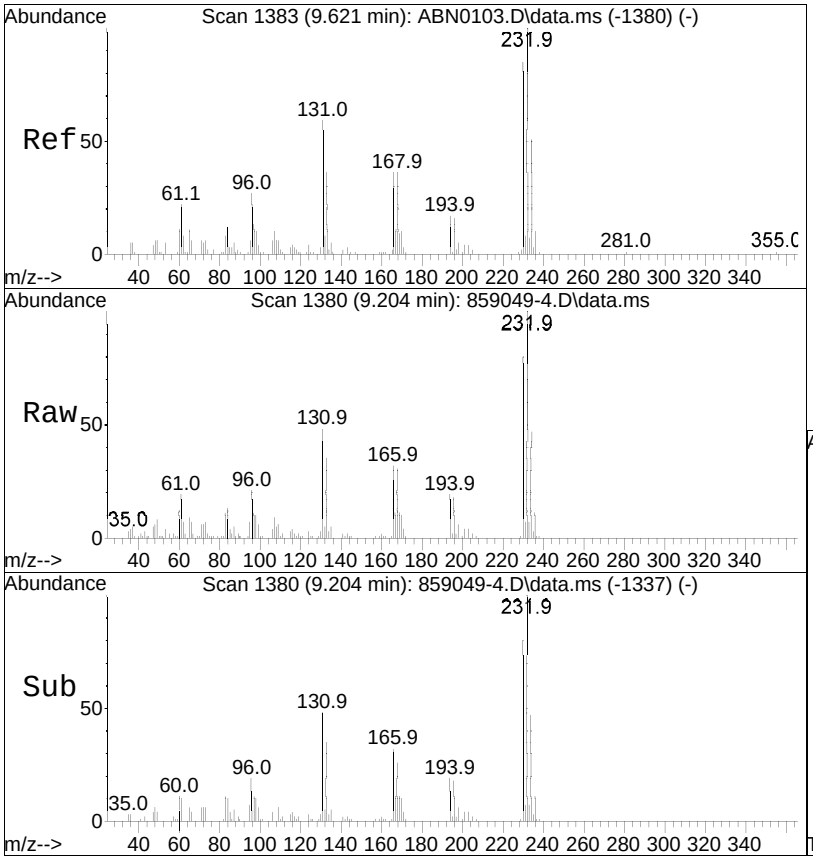


#68
4-Nitrophenol
Concen: 5.05 ug/ml
RT: 9.075 min Scan# 1358
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion: 65 Resp: 26787

Ion	Ratio	Lower	Upper
65	100		
109	69.7	47.4	71.2
139	266.9	76.6	115.0#

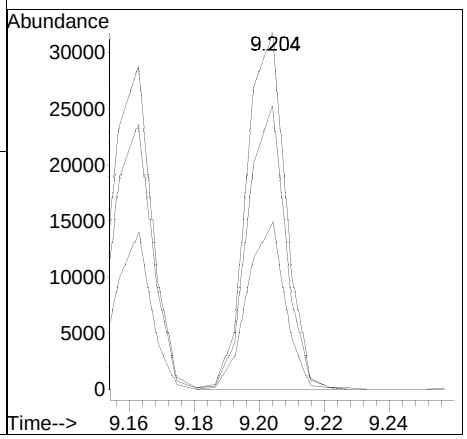


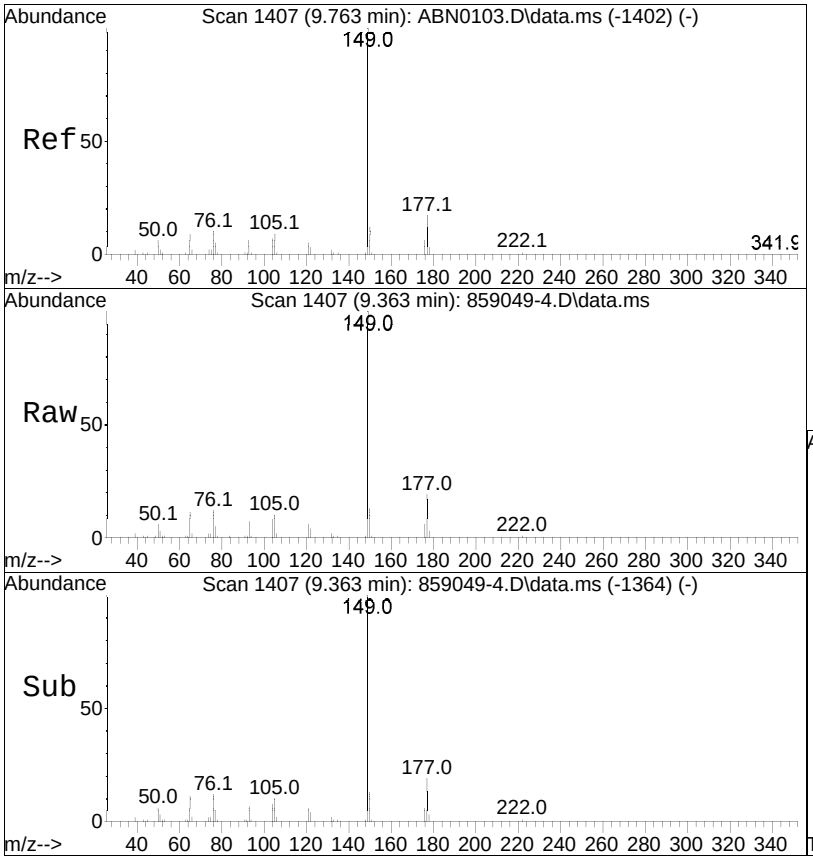


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.05 ug/ml
RT: 9.204 min Scan# 1380
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:232 Resp: 26657

Ion	Ratio	Lower	Upper
232	100		
230	78.1	61.8	92.8
234	45.8	36.2	54.2

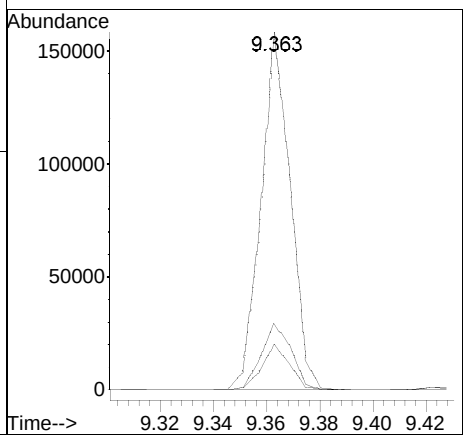


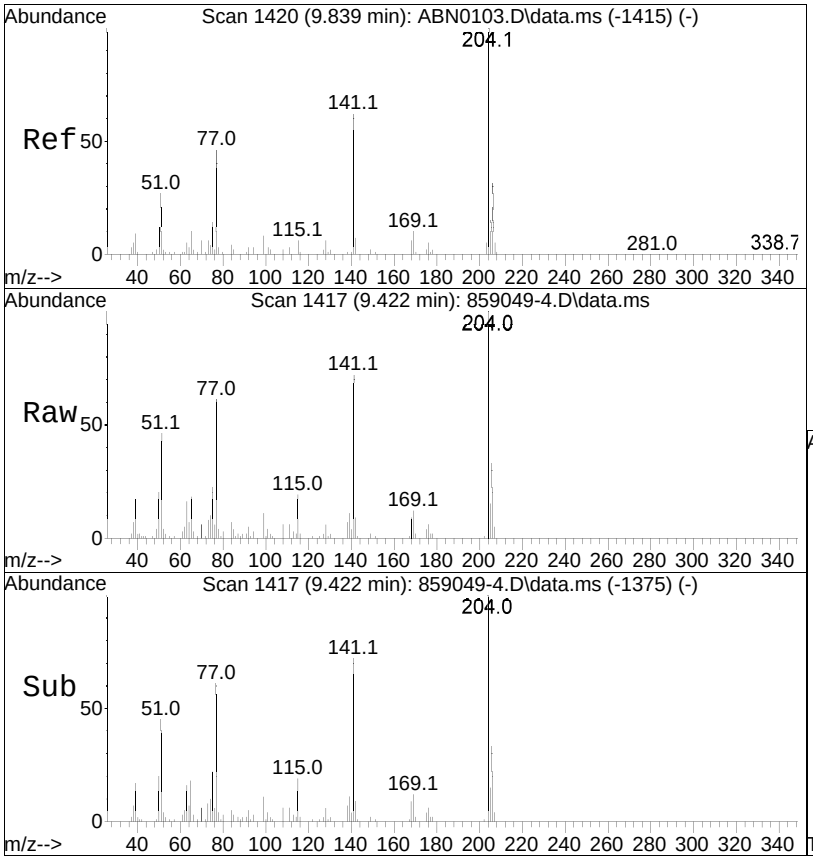


#71
Diethyl phthalate
Concen: 4.31 ug/ml
RT: 9.363 min Scan# 1407
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:149 Resp: 119161

Ion	Ratio	Lower	Upper
149	100		
177	19.3	16.1	24.1
150	12.4	9.4	14.2

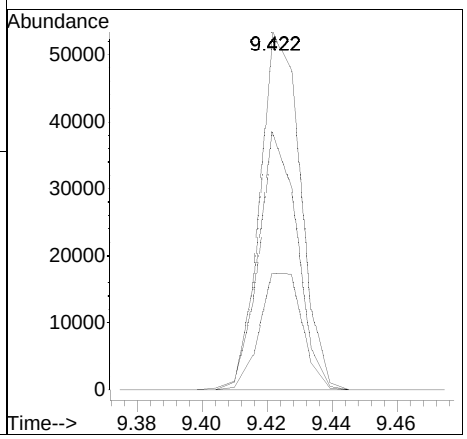


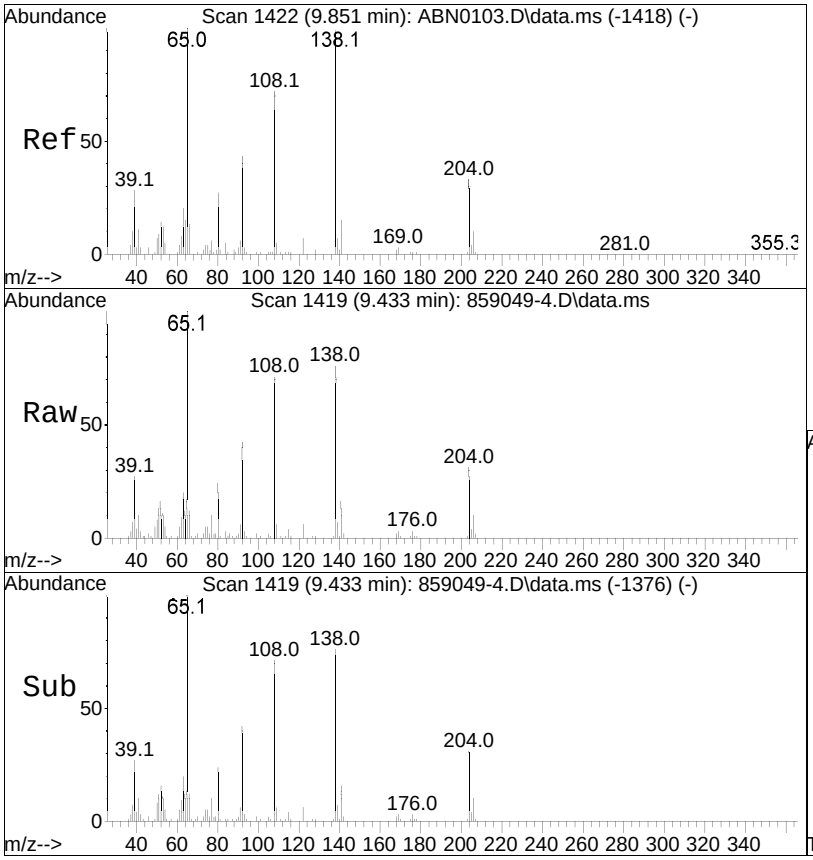


#73
4-Chlorophenyl phenyl ether
Concen: 3.71 ug/ml
RT: 9.422 min Scan# 1417
Delta R.T. -0.006 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:204 Resp: 46104

Ion	Ratio	Lower	Upper
204	100		
206	34.2	25.8	38.6
141	68.7	53.6	80.4

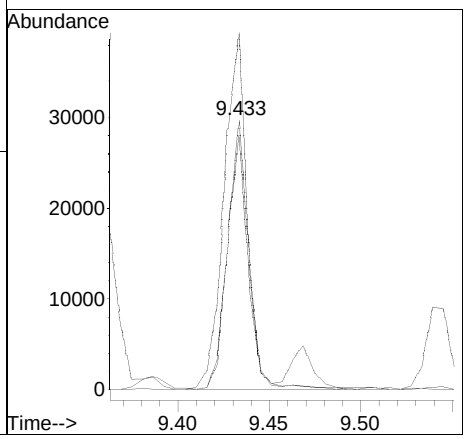


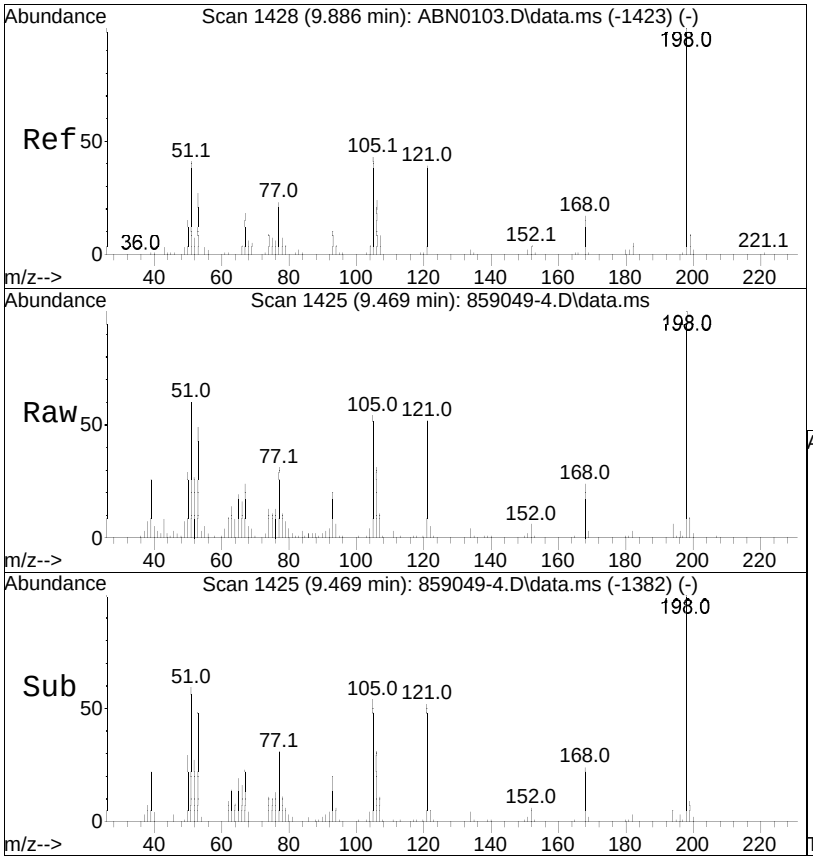


#74
4-Nitroaniline
Concen: 4.26 ug/ml
RT: 9.433 min Scan# 1419
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:138 Resp: 24041

Ion	Ratio	Lower	Upper
138	100		
108	90.7	52.1	78.1#
65	140.2	115.0	172.6

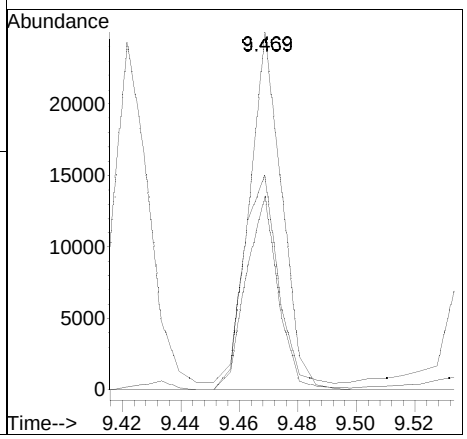


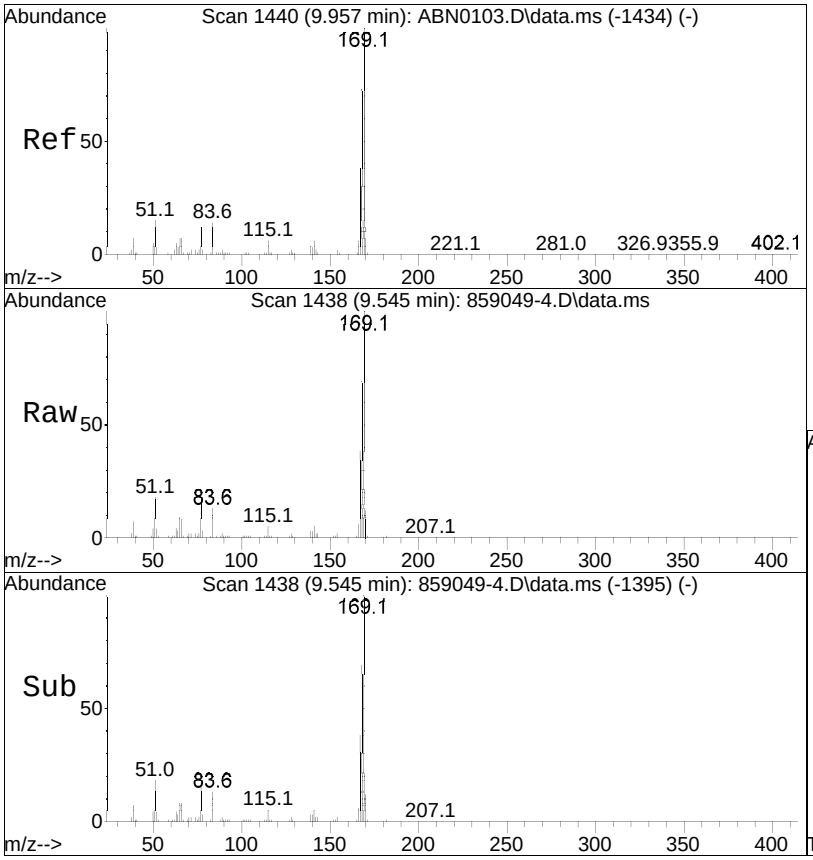


#75
4,6-Dinitro-o-cresol
Concen: 5.77 ug/ml
RT: 9.469 min Scan# 1425
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:198 Resp: 19320

Ion	Ratio	Lower	Upper
198	100		
51	62.8	76.0	114.0#
105	54.1	45.6	68.4

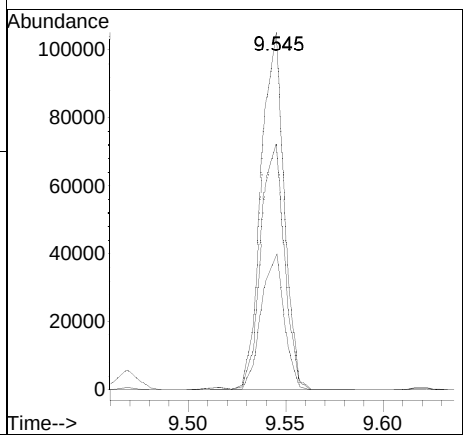


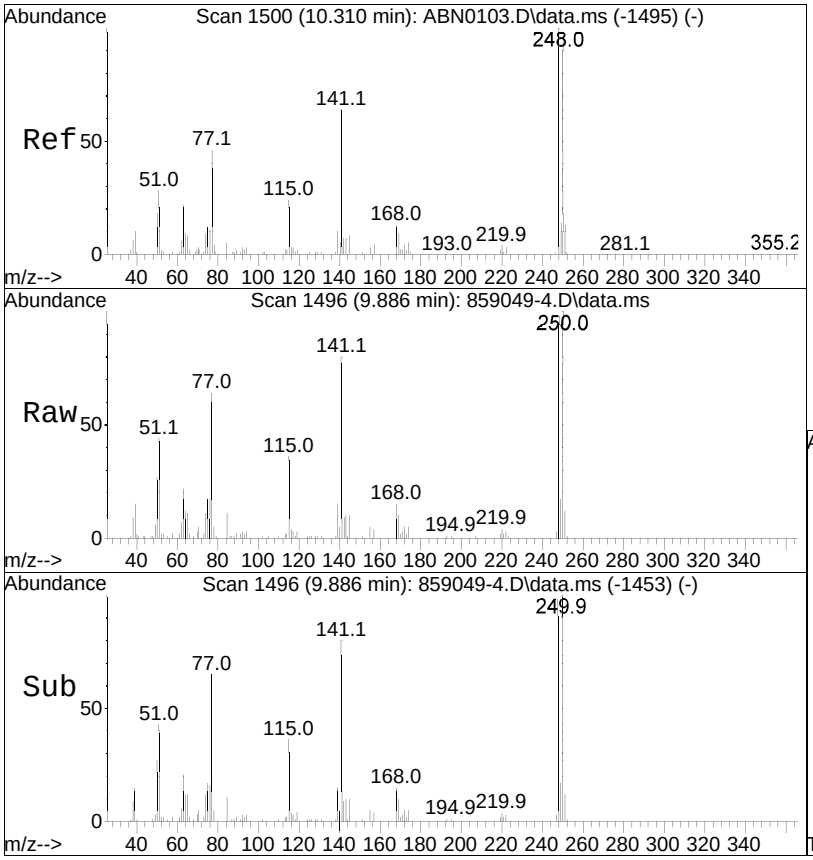


#76
NDPA/DPA
Concen: 3.91 ug/ml
RT: 9.545 min Scan# 1438
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:169 Resp: 85811

Ion	Ratio	Lower	Upper
169	100		
168	71.2	54.0	81.0
167	38.9	28.6	42.8

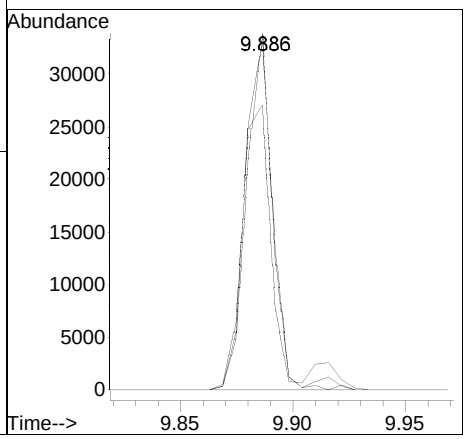


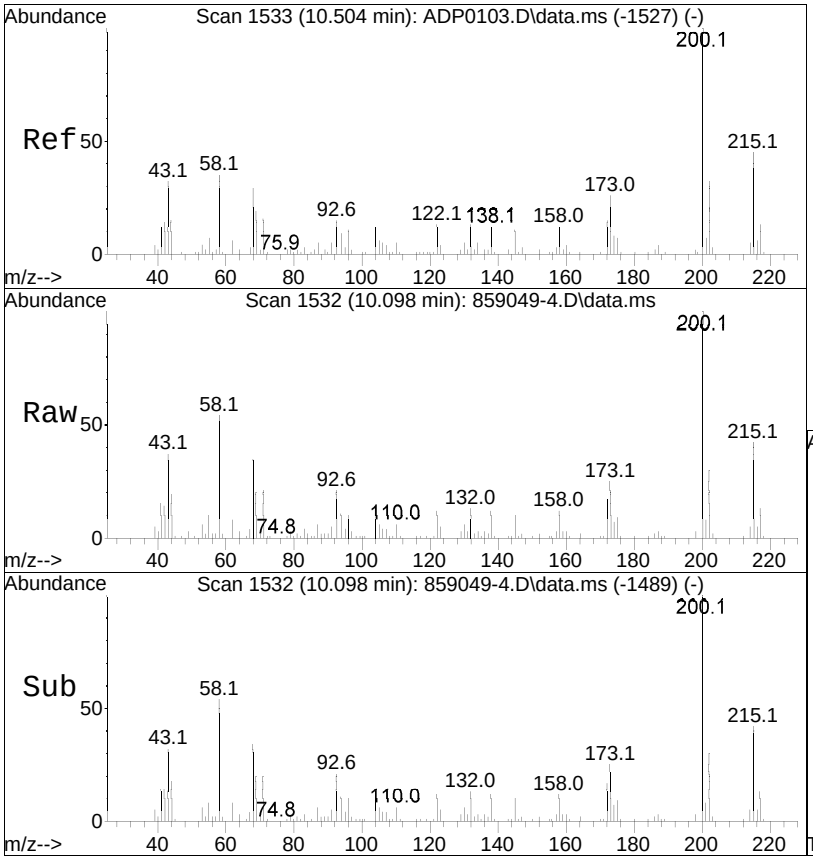


#79
4-Bromophenyl phenyl ether
Concen: 3.92 ug/ml
RT: 9.886 min Scan# 1496
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:248 Resp: 28360

Ion	Ratio	Lower	Upper
248	100		
141	84.6	76.6	114.8
250	93.3	77.3	115.9

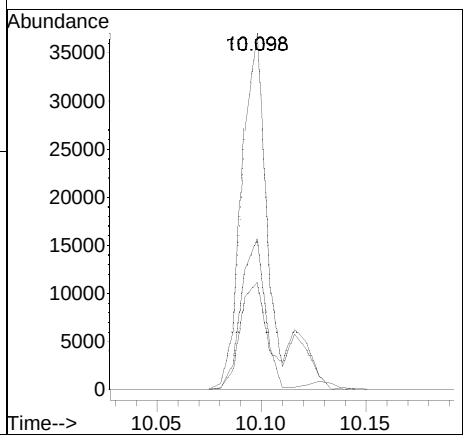


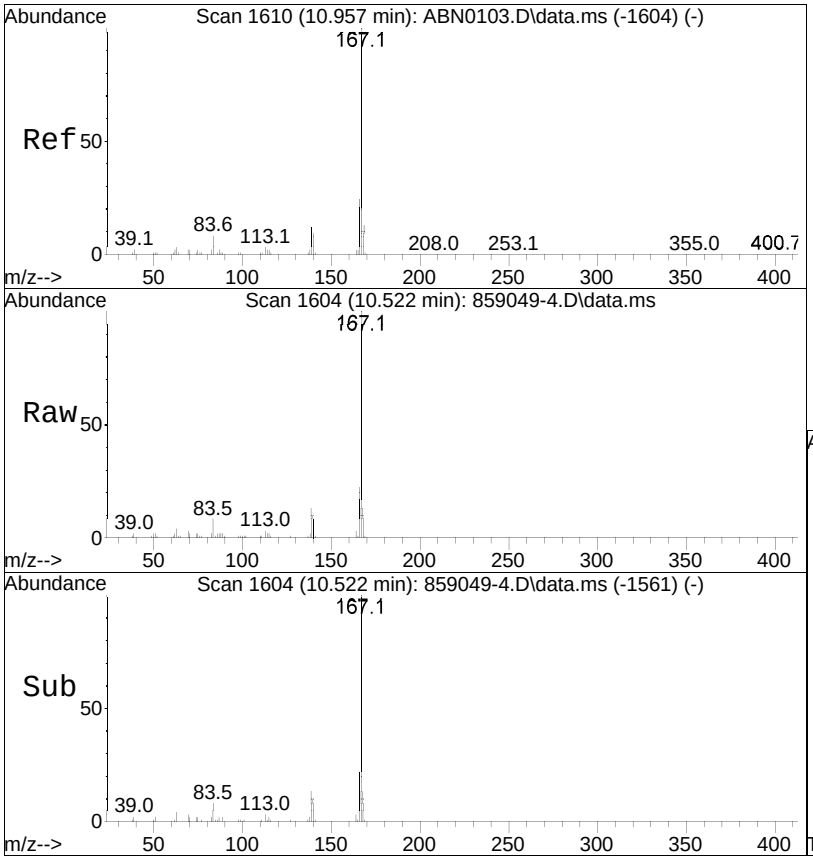


#86
Atrazine
Concen: 5.05 ug/ml
RT: 10.098 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:200 Resp: 33987

Ion	Ratio	Lower	Upper
200	100		
202	31.0	25.8	38.6
215	37.2	40.2	60.4#

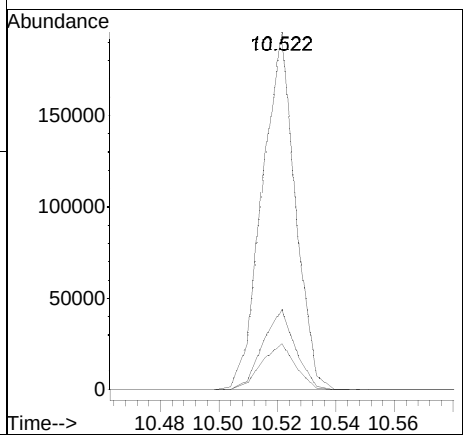


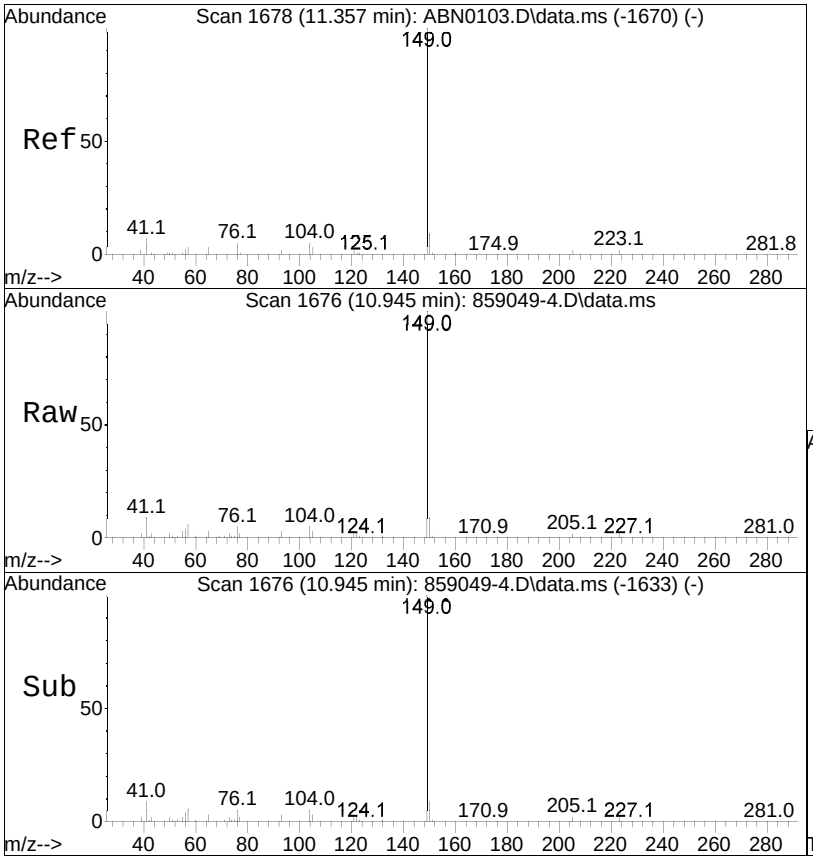


#90
Carbazole
Concen: 4.05 ug/ml
RT: 10.522 min Scan# 1604
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:167 Resp: 151745

Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.6	15.8
166	22.4	17.4	26.0

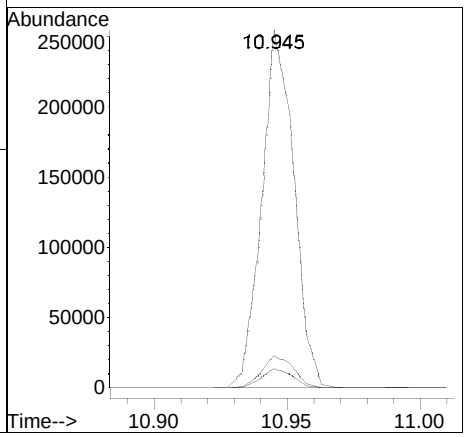


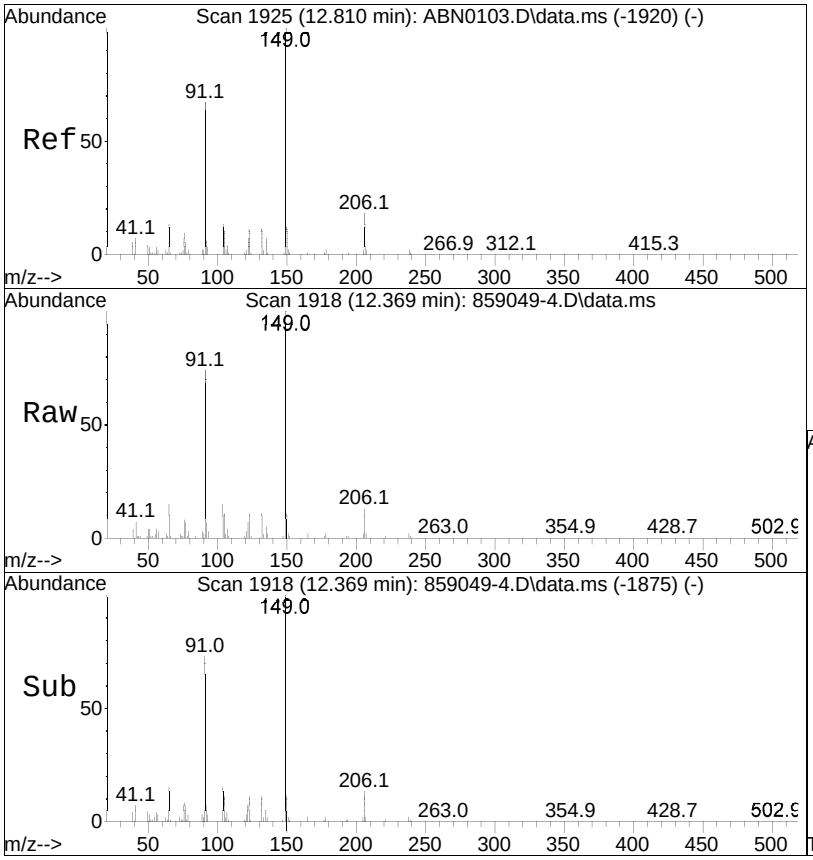


#91
Di-n-butylphthalate
Concen: 4.40 ug/ml
RT: 10.945 min Scan# 1676
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:149 Resp: 210832

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.0	10.6
104	5.3	4.5	6.7

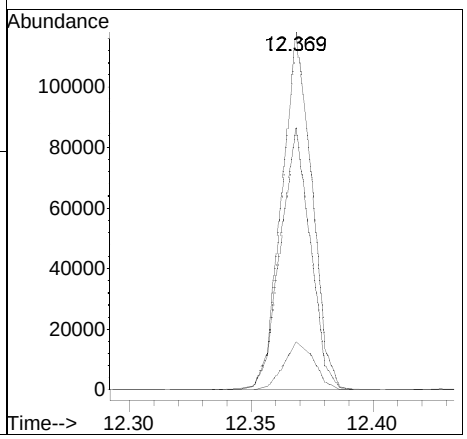


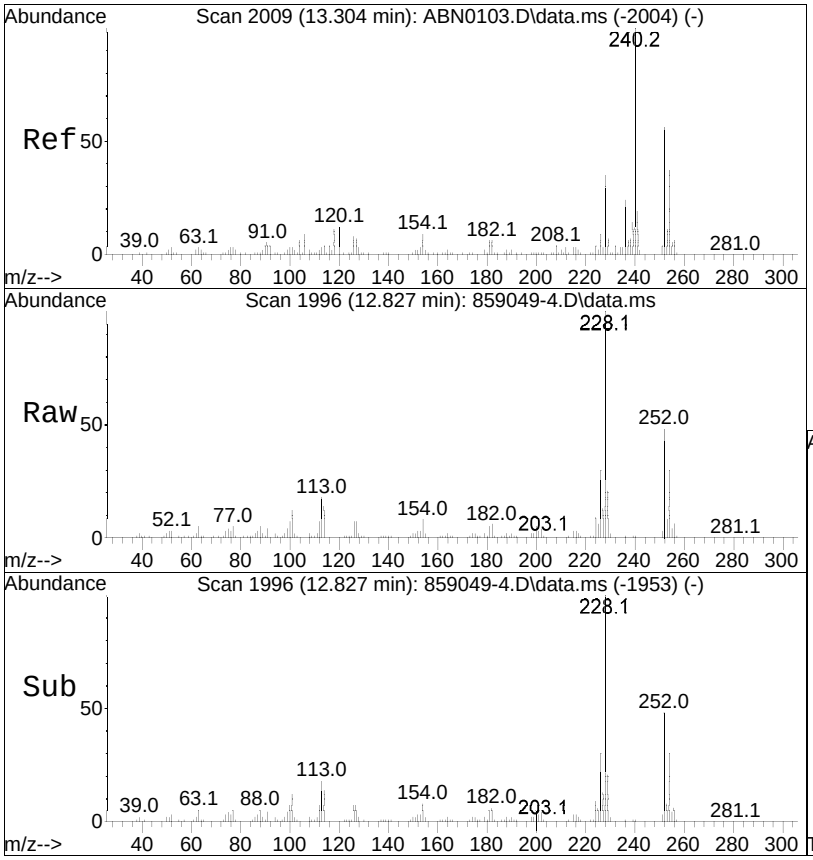


#96
Butyl benzyl phthalate
Concen: 4.91 ug/ml
RT: 12.369 min Scan# 1918
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:149 Resp: 100536

Ion	Ratio	Lower	Upper
149	100		
91	72.7	63.3	94.9
206	13.6	13.9	20.9#

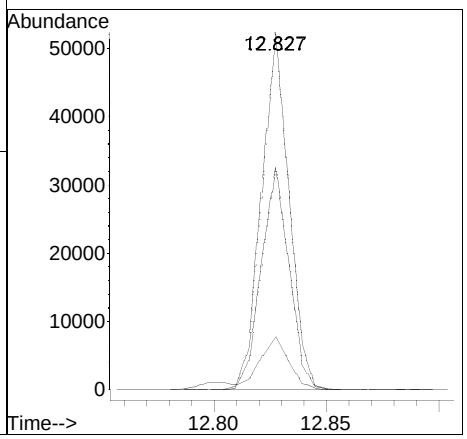


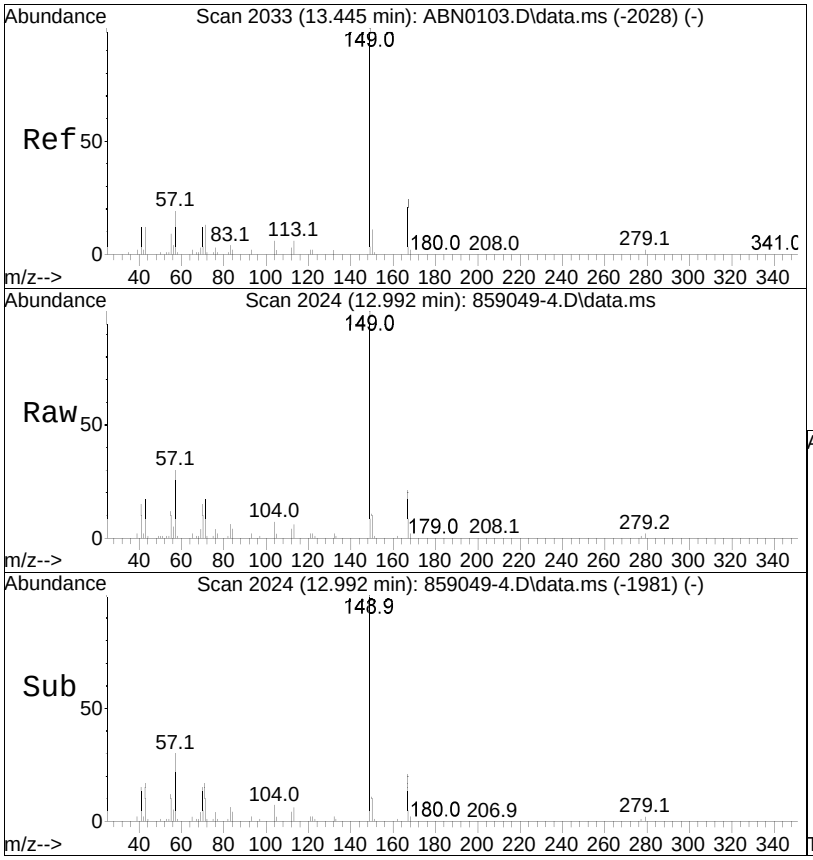


#105
3,3'-Dichlorobenzidine
Concen: 3.15 ug/ml
RT: 12.827 min Scan# 1996
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:252 Resp: 44235

Ion	Ratio	Lower	Upper
252	100		
126	18.8	14.5	21.7
254	63.3	51.2	76.8

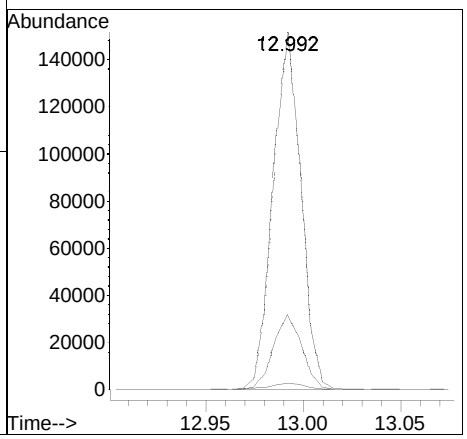


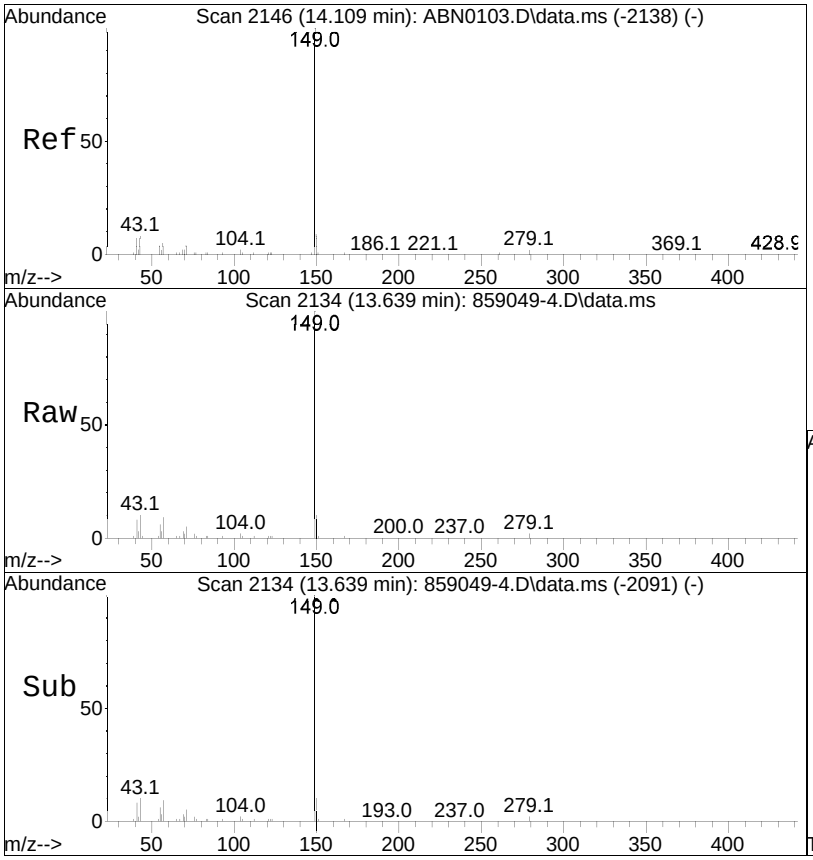


#107
Bis(2-ethylhexyl)phthalate
Concen: 5.65 ug/ml
RT: 12.992 min Scan# 2024
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:149 Resp: 149448

Ion	Ratio	Lower	Upper
149	100		
167	21.6	22.1	33.1#
279	2.0	3.0	4.4#

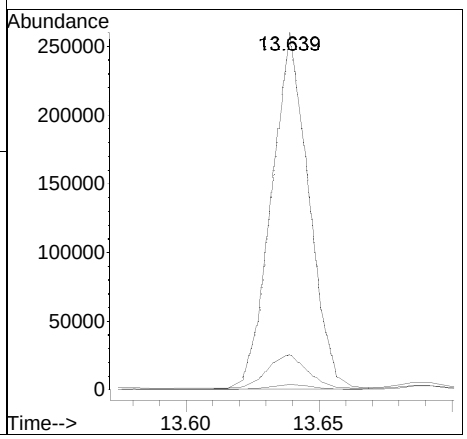




#108
Di-n-octylphthalate
Concen: 5.63 ug/ml
RT: 13.639 min Scan# 2134
Delta R.T. 0.000 min
Lab File: 859049-4.D
Acq: 5 Dec 2023 3:01 am

Tgt Ion:149 Resp: 250883

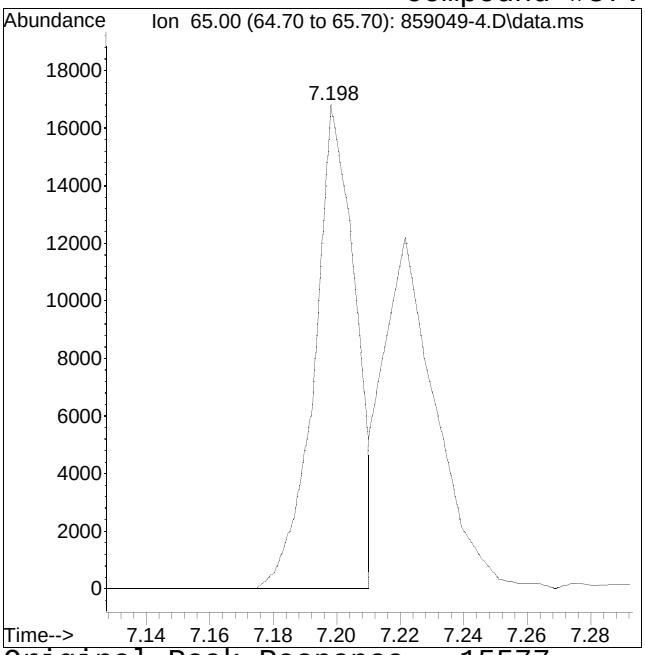
Ion	Ratio	Lower	Upper
149	100		
43	10.4	18.8	28.2#
167	1.4	1.3	1.9

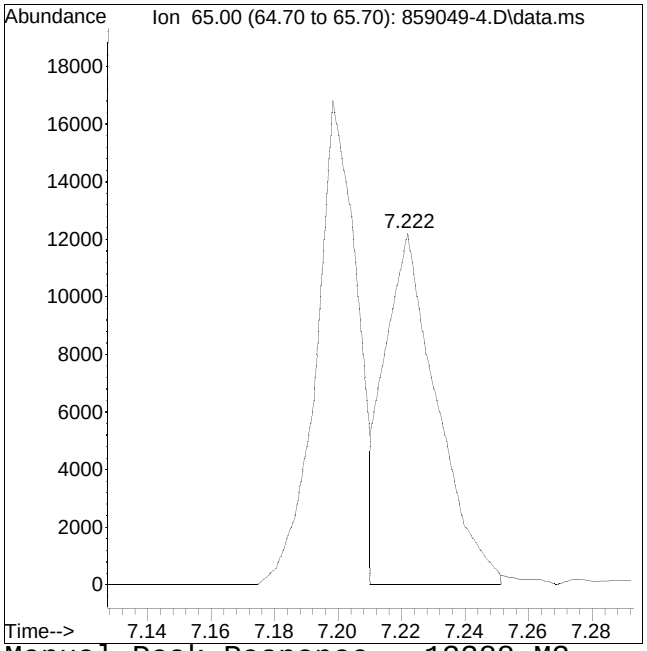


Manual Integration Report

Data Path : I:\8270\SV106\231204nalvi\QMethod : FS230902SV106.m
Data File : 859049-4.D Operator : SV106:sz
Date Inj'd : 12/5/2023 3:01 am Instrument : SV 106
Sample : WG1859049-4,32,,ASK Quant Date : 12/5/2023 3:21 am

Compound #37: 4-Chloroaniline





Original Peak Response = 15577 Manual Peak Response = 13388 M3

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 859049-5.D
Acq On : 5 Dec 2023 3:24 am
Operator : SV106:sz
Sample : WG1859049-5,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 17:38:50 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 03:44:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	5.528	152	37542	4.000	ug/ml		0.00
Standard Area 1 = 35534			Recovery = 105.65%				
27) IS2_1,4-Dichlorobenzen...	5.528	152	37542	4.000	ug/ml		0.00
Standard Area 3 = 42220			Recovery = 88.92%				
34) IS1_Naphthalene-d8	7.086	136	137343	4.000	ug/ml	#	0.00
Standard Area 1 = 137007			Recovery = 100.25%				
54) IS2_Naphthalene-d8	7.086	136	137343	4.000	ug/ml	#	0.00
Standard Area 3 = 169210			Recovery = 81.17%				
62) IS1_Acenaphthene-d10	8.857	164	79052	4.000	ug/ml		0.00
Standard Area 1 = 78857			Recovery = 100.25%				
82) IS2_Acenaphthene-d10	8.857	164	79052	4.000	ug/ml		0.00
Standard Area 3 = 97131			Recovery = 81.39%				
85) IS3_Acenaphthene-d10	8.857	164	79052	4.000	ug/ml		0.00
Standard Area 2 = 100748			Recovery = 78.47%				
87) IS1_Phenanthrene-d10	10.269	188	150748	4.000	ug/ml	#	0.00
Standard Area 1 = 155365			Recovery = 97.03%				
99) IS3_Phenanthrene-d10	10.269	188	150748	4.000	ug/ml	#	0.00
Standard Area 2 = 209251			Recovery = 72.04%				
103) IS1_Chrysene-d12	12.810	240	120351	4.000	ug/ml	#	0.00
Standard Area 1 = 136847			Recovery = 87.95%				
112) IS1_Perylene-d12	14.198	264	124031	4.000	ug/ml		0.00
Standard Area 1 = 150903			Recovery = 82.19%				
System Monitoring Compounds							
4) 2-Fluorophenol	2.798	112	41441	3.958	ug/ml		0.02
Spiked Amount 5.000	Range 15 - 110		Recovery = 79.16%				
7) Phenol-d6	5.169	99	47616	3.530	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 70.60%				
19) Nitrobenzene-d5	6.286	82	28934	2.366	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 94.64%				
45) 2-Fluorobiphenyl	8.239	172	52294	1.995	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 79.80%				
78) 2,4,6-Tribromophenol	9.621	330	14428	3.978	ug/ml		0.00
Spiked Amount 5.000	Range 15 - 110		Recovery = 79.56%				
95) 4-Terphenyl-d14	11.845	244	63770	1.929	ug/ml		0.00
Spiked Amount 2.500	Range 30 - 130		Recovery = 77.16%				

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 859049-5.D
Acq On : 5 Dec 2023 3:24 am
Operator : SV106:sz
Sample : WG1859049-5,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 17:38:50 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 03:44:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	5.216	128	49601	4.148	ug/ml	98
8) Phenol	5.186	94	49450	3.464	ug/ml	94
9) Bis(2-chloroethyl)ether	5.234	93	48109	4.195	ug/ml#	70
14) Bis(2-chloroisopropyl)...	6.022	45	79225	4.691	ug/ml#	62
15) 2-Methylphenol	6.039	108	38567	3.612	ug/ml	98
17) n-Nitrosodi-n-propylamine	6.181	70	38082	4.395	ug/ml#	91
18) 3-Methylphenol/4-Methy...	6.251	108	44395	3.964	ug/ml#	77
20) Nitrobenzene	6.304	77	56026	4.611	ug/ml	97
21) Isophorone	6.616	82	98233	4.224	ug/ml#	93
22) 2-Nitrophenol	6.692	139	25933	5.336	ug/ml#	94
23) 2,4-Dimethylphenol	6.845	107	19742	1.642	ug/ml	92
24) Bis(2-chloroethoxy)met...	6.928	93	62818	4.311	ug/ml	98
25) 2,4-Dichlorophenol	6.980	162	42010	4.161	ug/ml	98
28) Benzaldehyde	4.787	105	40972	4.703	ug/ml	99
29) Acetophenone	6.122	105	74343	3.972	ug/ml#	83
37) 4-Chloroaniline	7.222	65	11962M3	2.639	ug/ml	
39) p-Chloro-m-cresol	7.786	107	45045	4.501	ug/ml	95
42) Hexachlorocyclopentadiene	8.027	237	21511	2.857	ug/ml	96
43) 2,4,6-Trichlorophenol	8.157	196	31089	4.341	ug/ml	98
44) 2,4,5-Trichlorophenol	8.186	196	33650	4.368	ug/ml	99
47) 2-Nitroaniline	8.451	138	31414	4.947	ug/ml	96
50) Dimethyl phthalate	8.669	163	116183	4.297	ug/ml#	98
52) 2,6-Dinitrotoluene	8.704	165	24345	4.715	ug/ml#	85
59) Caprolactam	7.545	55	12970	2.576	ug/ml#	81
60) 1,2,4,5-Tetrachloroben...	8.016	216	43766	3.664	ug/ml	99
61) Biphenyl	8.327	154	114846	3.908	ug/ml	97
63) 3-Nitroaniline	8.851	138	21462	3.795	ug/ml#	91
65) 2,4-Dinitrophenol	8.951	184	14330	5.600	ug/ml	97
66) Dibenzofuran	9.057	168	133289	3.990	ug/ml#	73
67) 2,4-Dinitrotoluene	9.086	165	32442	4.577	ug/ml	93
68) 4-Nitrophenol	9.074	65	26303	4.912	ug/ml#	1
70) 2,3,4,6-Tetrachlorophenol	9.204	232	27659	4.150	ug/ml	98
71) Diethyl phthalate	9.363	149	124423	4.449	ug/ml	98
73) 4-Chlorophenyl phenyl ...	9.427	204	47589	3.779	ug/ml	99
74) 4-Nitroaniline	9.433	138	24818	4.348	ug/ml#	89
75) 4,6-Dinitro-o-cresol	9.469	198	18486	5.518	ug/ml#	83

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 859049-5.D
Acq On : 5 Dec 2023 3:24 am
Operator : SV106:sz
Sample : WG1859049-5,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 17:38:50 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 03:44:47 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\sv106\231204nalvi\ABN1204na.D
: 2 - I:\8270\sv106\231204nalvi\ADP1204na.D
: 3 - I:\8270\sv106\231204nalvi\AP91204na.D
Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76)	NDPA/DPA	9.545	169	84991	3.827	ug/ml	95
79)	4-Bromophenyl phenyl e...	9.886	248	29342	4.003	ug/ml	95
86)	Atrazine	10.098	200	35541	5.218	ug/ml#	86
90)	Carbazole	10.521	167	156008	4.178	ug/ml	99
91)	Di-n-butylphthalate	10.945	149	211436	4.422	ug/ml	99
96)	Butyl benzyl phthalate	12.368	149	98700	4.837	ug/ml#	93
105)	3,3'-Dichlorobenzidine	12.827	252	43076	3.035	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	12.992	149	144946	5.421	ug/ml#	91
108)	Di-n-octylphthalate	13.639	149	239423	5.308	ug/ml#	74

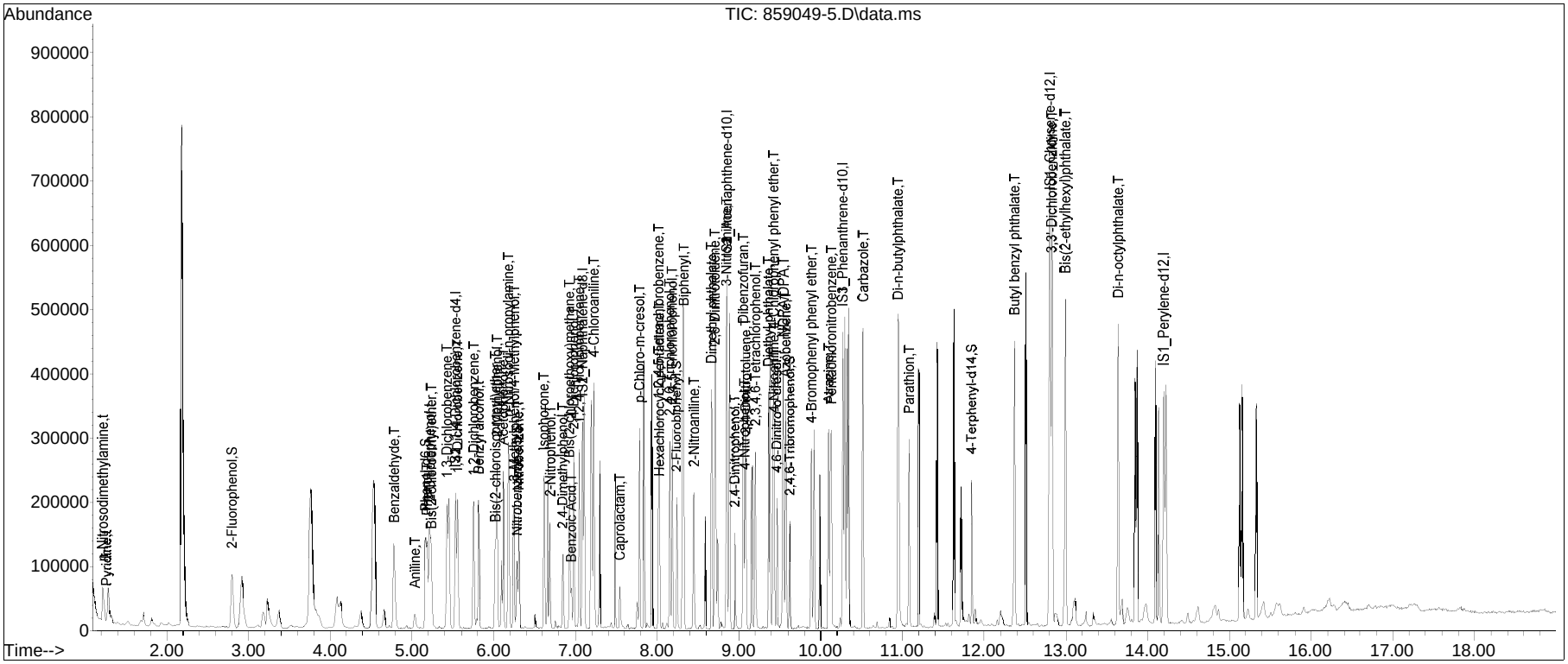
(#) = qualifier out of range (m) = manual integration (+) = signals summed

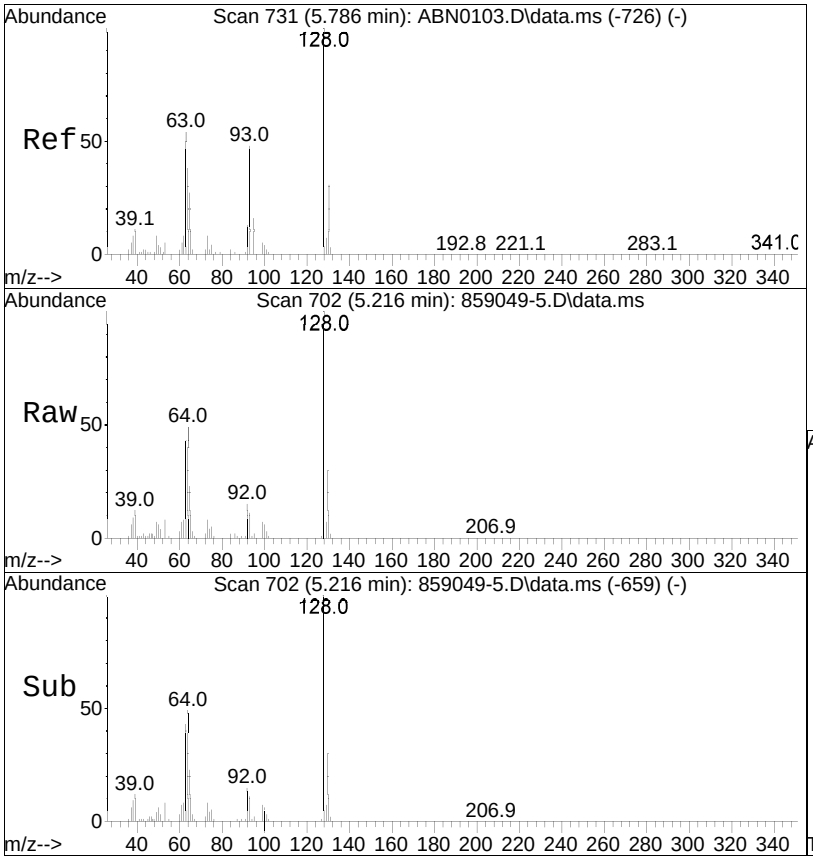
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV106\231204nalvi\
Data File : 859049-5.D
Acq On : 5 Dec 2023 3:24 am
Operator : SV106:sz
Sample : WG1859049-5,32,,ASK
Misc : WG1859682,WG1859049,ical20337
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 17:38:50 2023
Quant Method : I:\8270\sv106\231204nalvi\FS230902SV106.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 05 03:44:47 2023
Response via : Initial Calibration

Sub List : 8270TCL_combo_REV1 - TCL/CT/MAAP91204na.D•

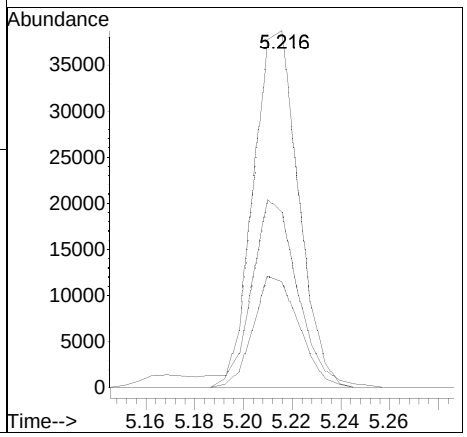


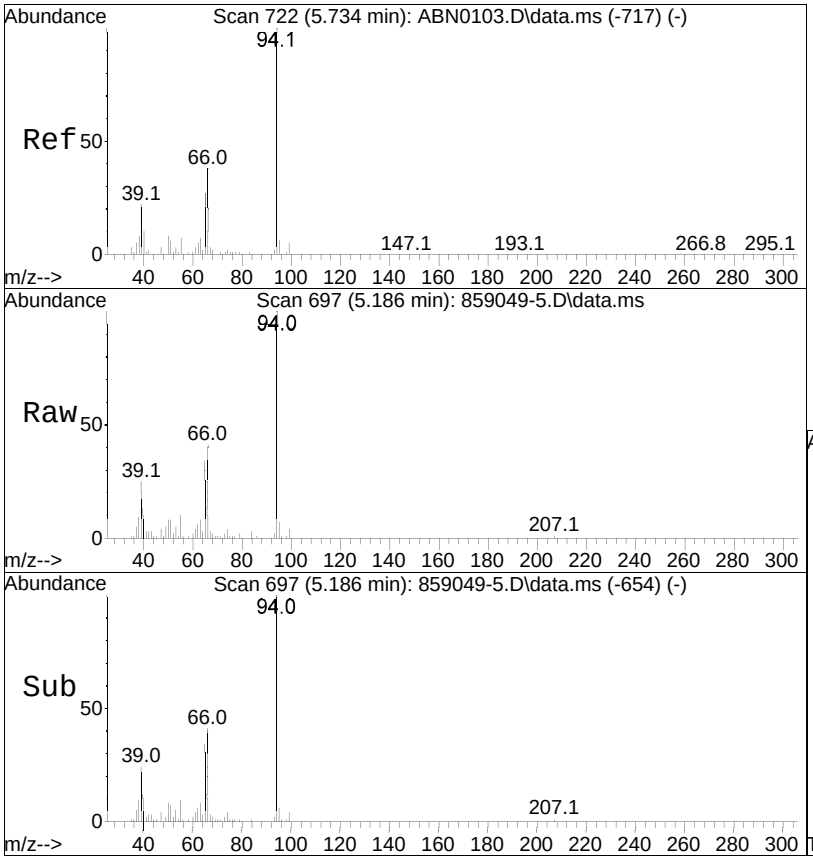


#6
2-Chlorophenol
Concen: 4.15 ug/ml
RT: 5.216 min Scan# 702
Delta R.T. 0.006 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:128 Resp: 49601

Ion	Ratio	Lower	Upper
128	100		
64	54.4	45.1	67.7
130	31.7	26.2	39.4

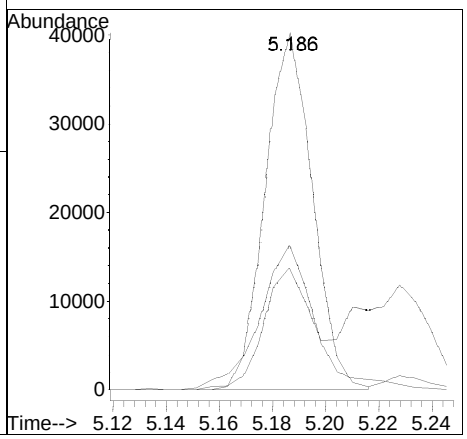


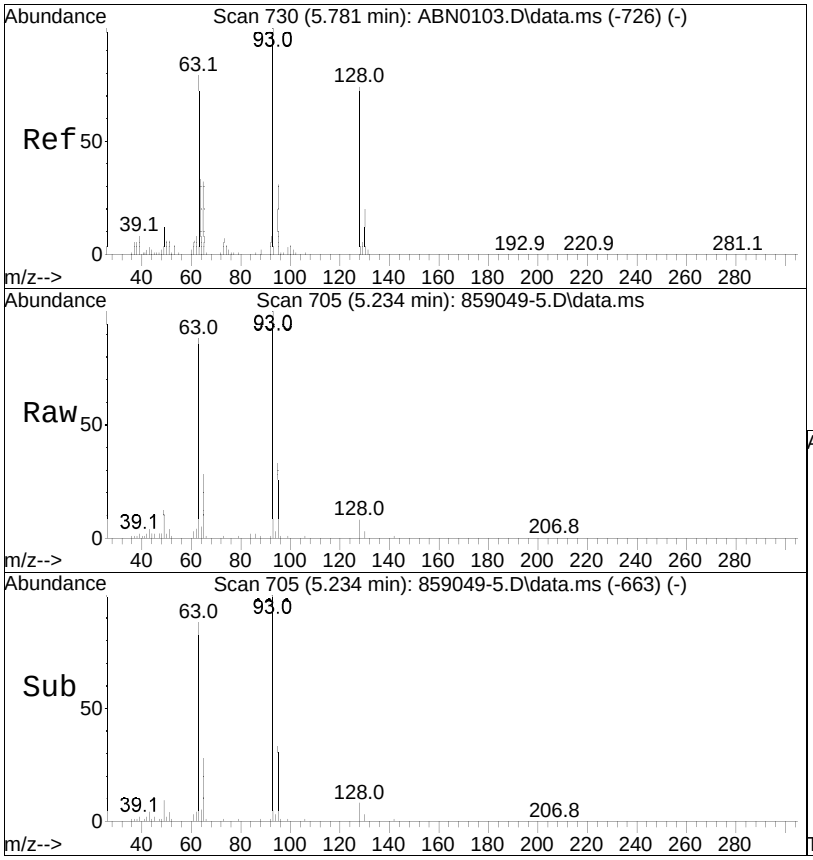


#8
Phenol
Concen: 3.46 ug/ml
RT: 5.186 min Scan# 697
Delta R.T. 0.006 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion: 94 Resp: 49450

Ion	Ratio	Lower	Upper
94	100		
65	34.5	26.0	39.0
66	47.7	33.8	50.8

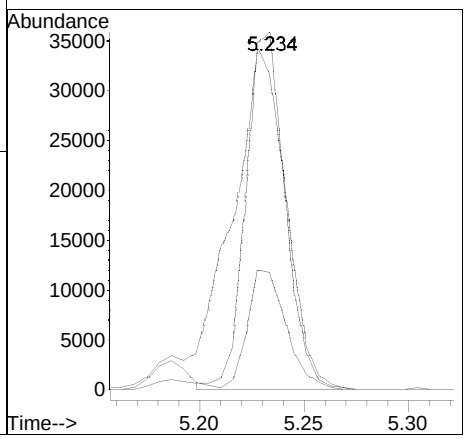


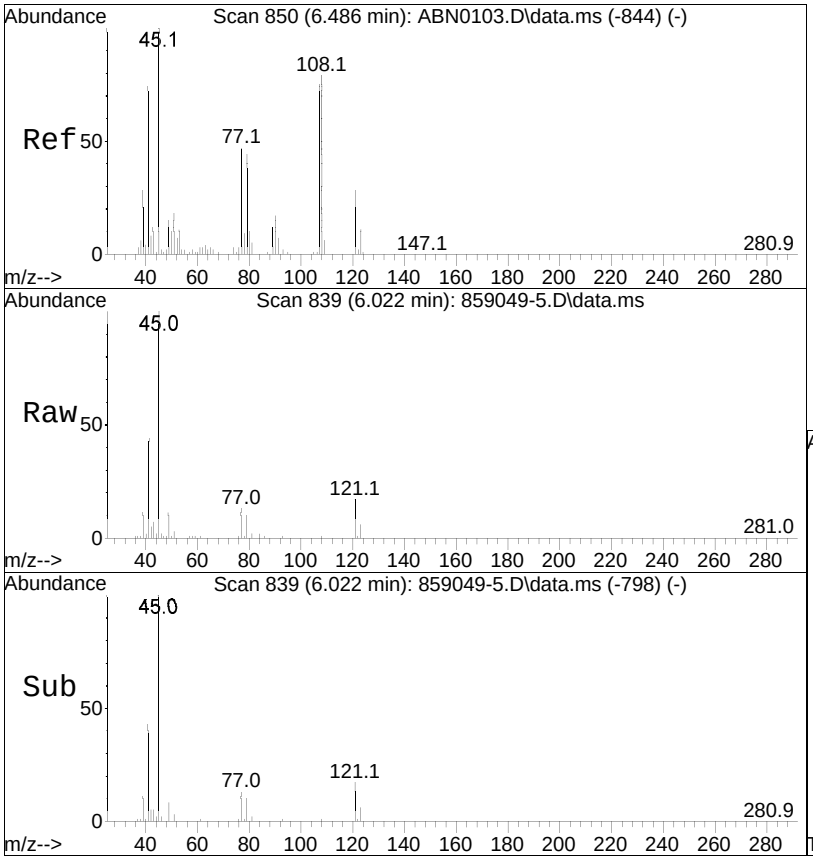


#9
Bis(2-chloroethyl)ether
Concen: 4.20 ug/ml
RT: 5.234 min Scan# 705
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion: 93 Resp: 48109

Ion	Ratio	Lower	Upper
93	100		
63	131.8	74.6	111.8#
95	32.1	25.9	38.9

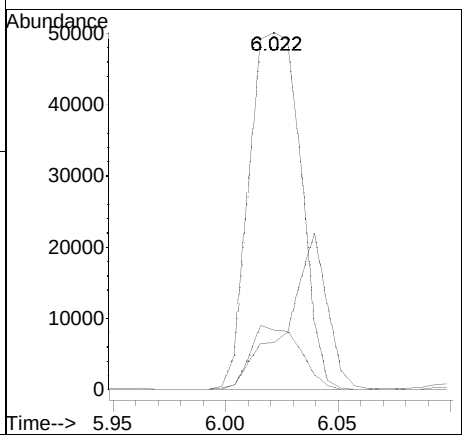


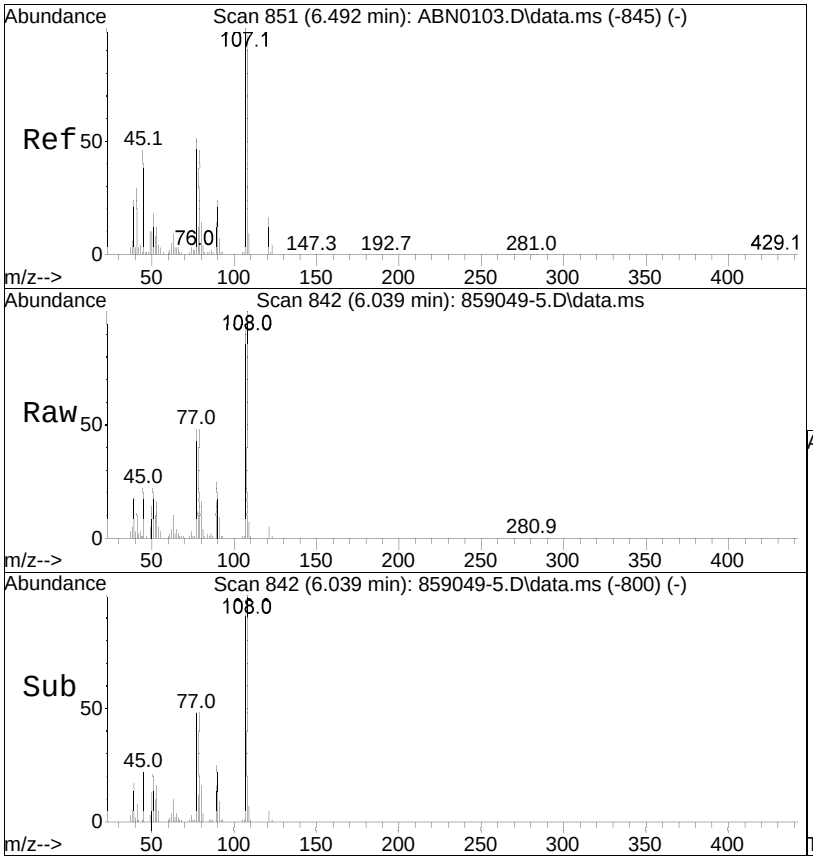


#14
Bis(2-chloroisopropyl)ether
Concen: 4.69 ug/ml
RT: 6.022 min Scan# 839
Delta R.T. -0.006 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion: 45 Resp: 79225

Ion	Ratio	Lower	Upper
45	100		
121	17.3	9.8	14.6#
77	35.0	6.1	9.1#

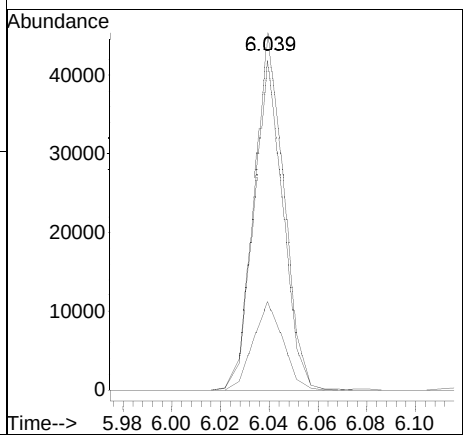


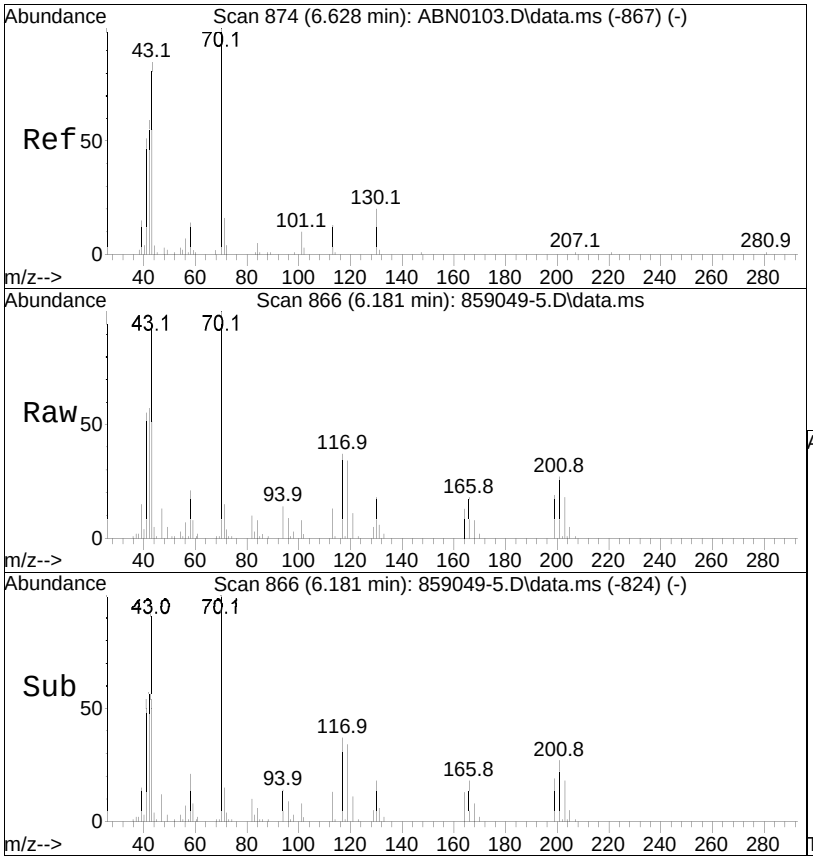


#15
2-Methylphenol
Concen: 3.61 ug/ml
RT: 6.039 min Scan# 842
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:108 Resp: 38567

Ion	Ratio	Lower	Upper
108	100		
107	89.9	70.7	106.1
90	24.7	18.7	28.1

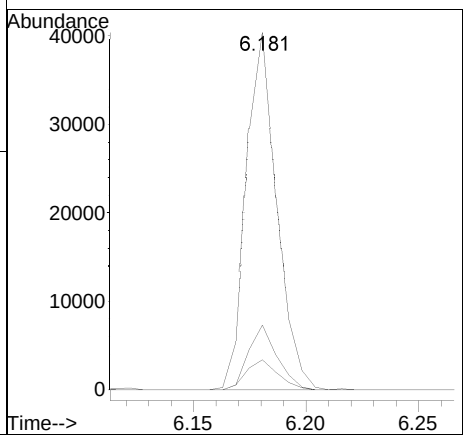


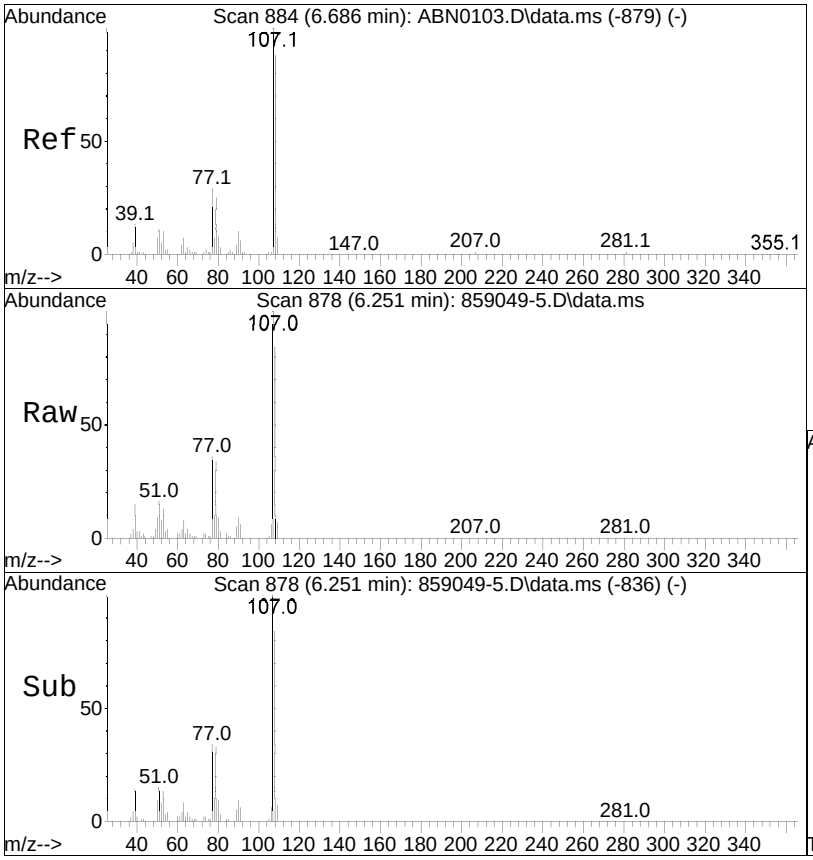


#17
n-Nitrosodi-n-propylamine
Concen: 4.39 ug/ml
RT: 6.181 min Scan# 866
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion: 70 Resp: 38082

Ion	Ratio	Lower	Upper
70	100		
130	17.0	18.2	27.4#
101	8.7	7.8	11.8

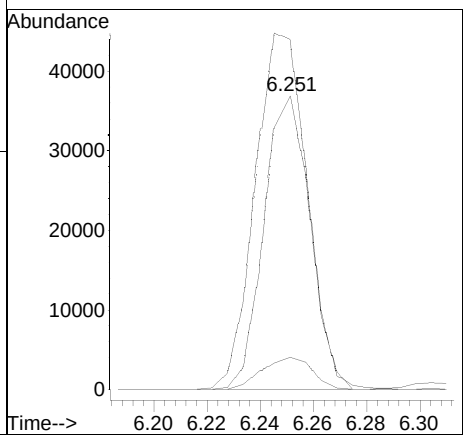


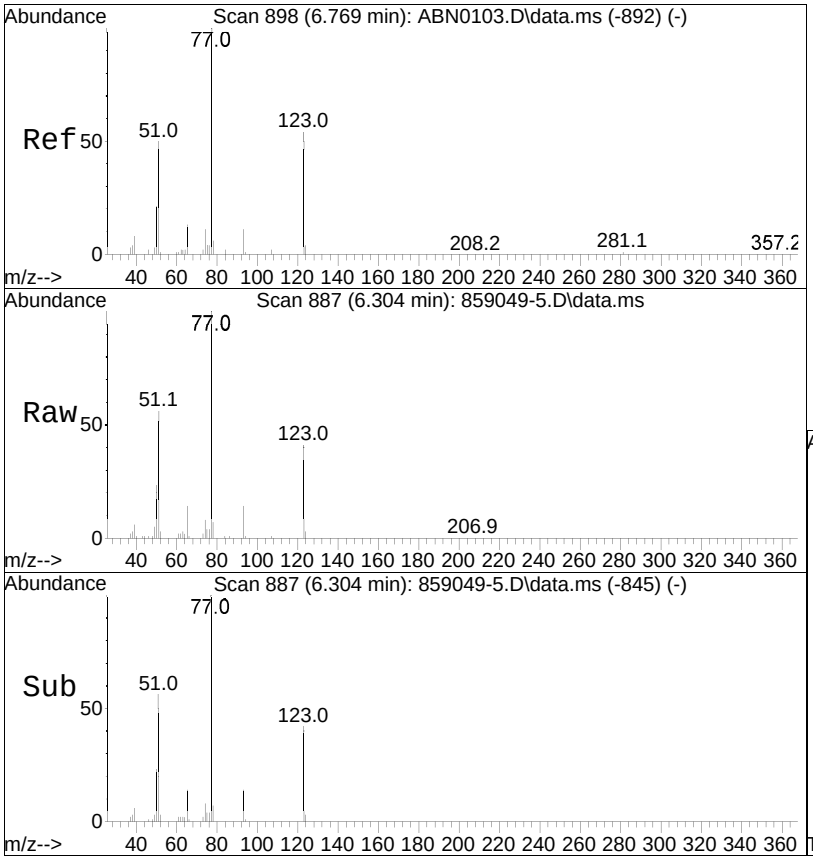


#18
3-Methylphenol/4-Methylphenol
Concen: 3.96 ug/ml
RT: 6.251 min Scan# 878
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:108 Resp: 44395

Ion	Ratio	Lower	Upper
108	100		
107	136.9	88.6	132.8#
90	11.9	8.8	13.2

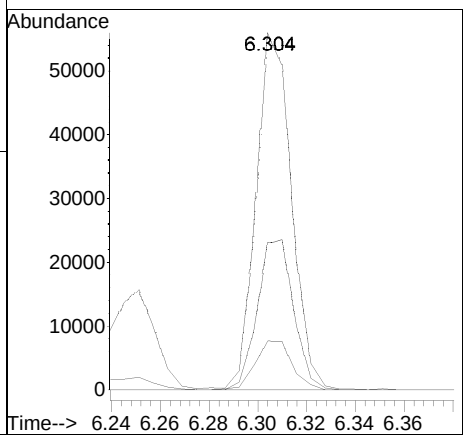


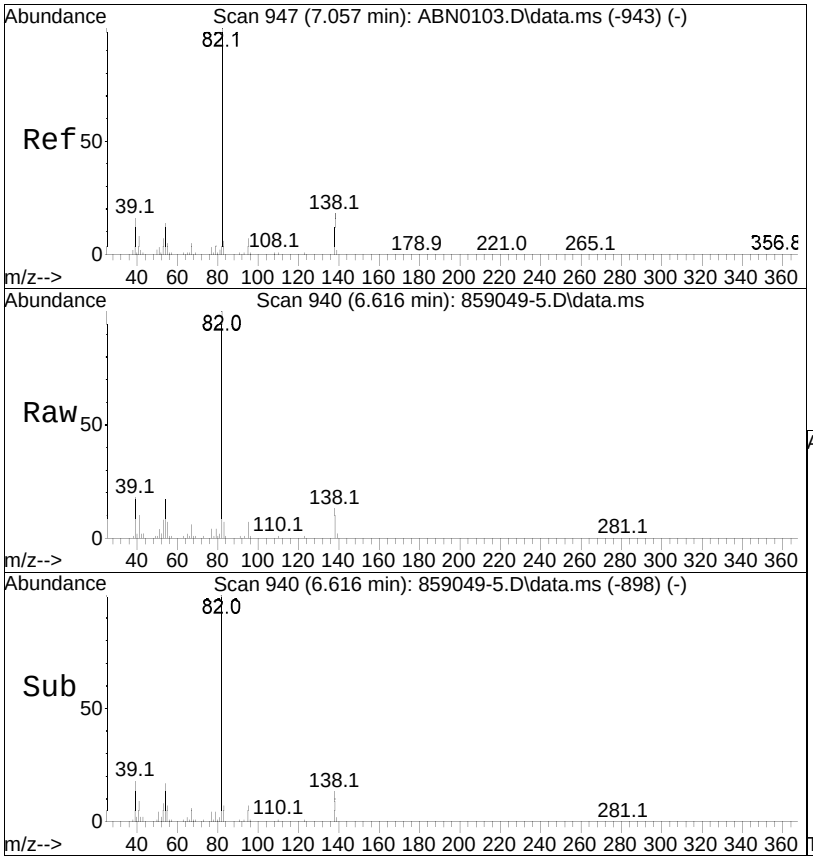


#20
Nitrobenzene
Concen: 4.61 ug/ml
RT: 6.304 min Scan# 887
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion: 77 Resp: 56026

Ion	Ratio	Lower	Upper
77	100		
123	43.3	36.3	54.5
65	14.3	11.6	17.4

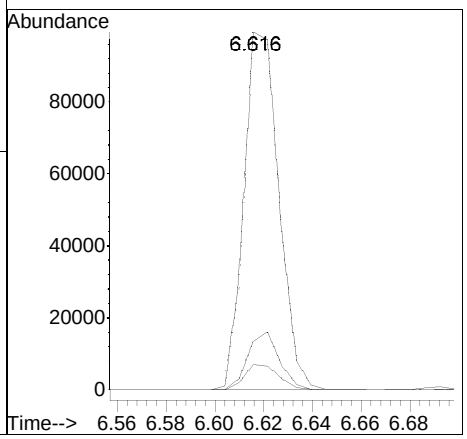


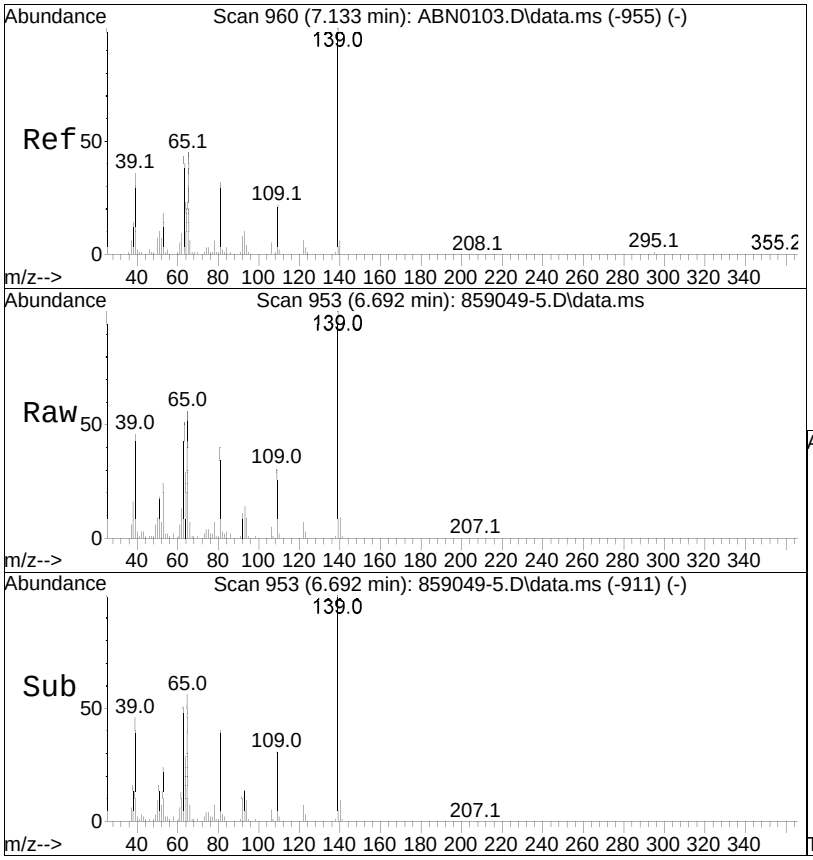


#21
Isophorone
Concen: 4.22 ug/ml
RT: 6.616 min Scan# 940
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion: 82 Resp: 98233

Ion	Ratio	Lower	Upper
82	100		
138	14.7	14.7	22.1#
95	7.1	5.2	7.8

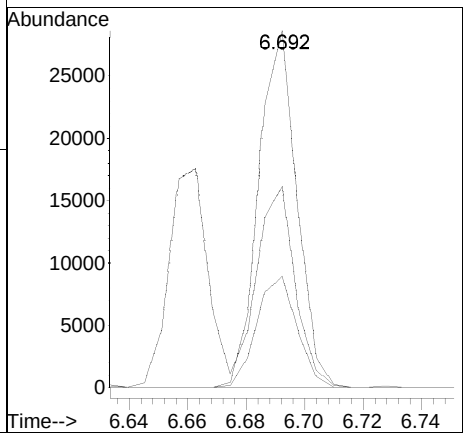


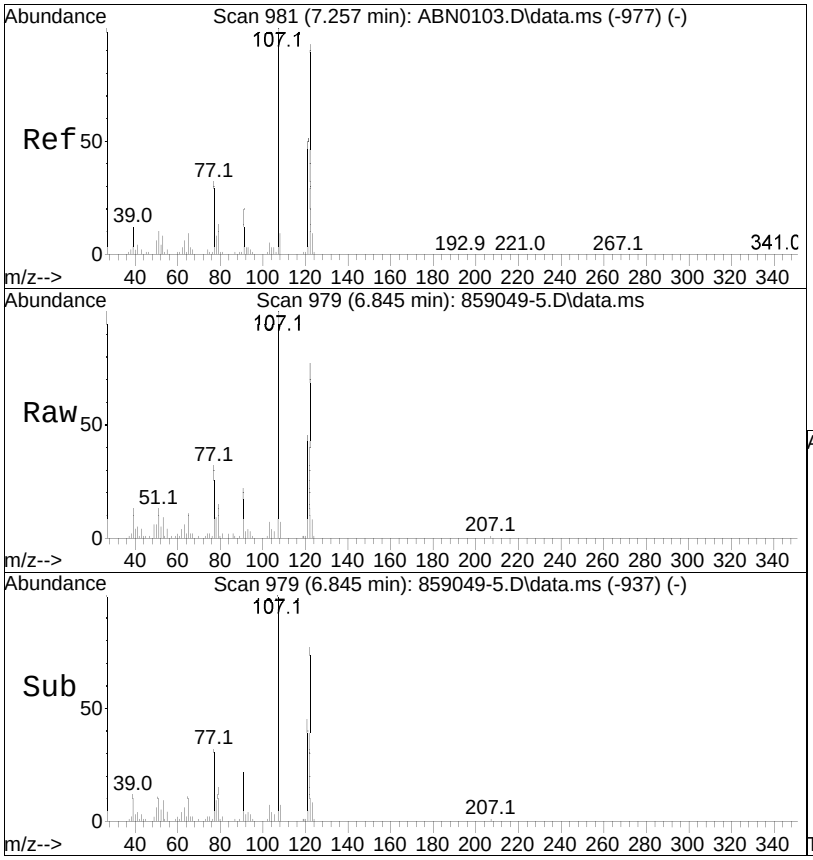


#22
2-Nitrophenol
Concen: 5.34 ug/ml
RT: 6.692 min Scan# 953
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:139 Resp: 25933

Ion	Ratio	Lower	Upper
139	100		
109	33.0	19.4	29.0#
65	56.8	46.1	69.1

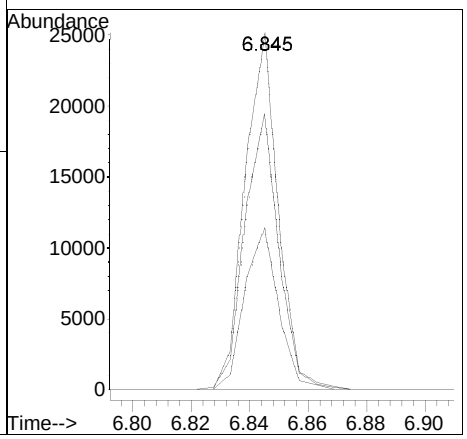


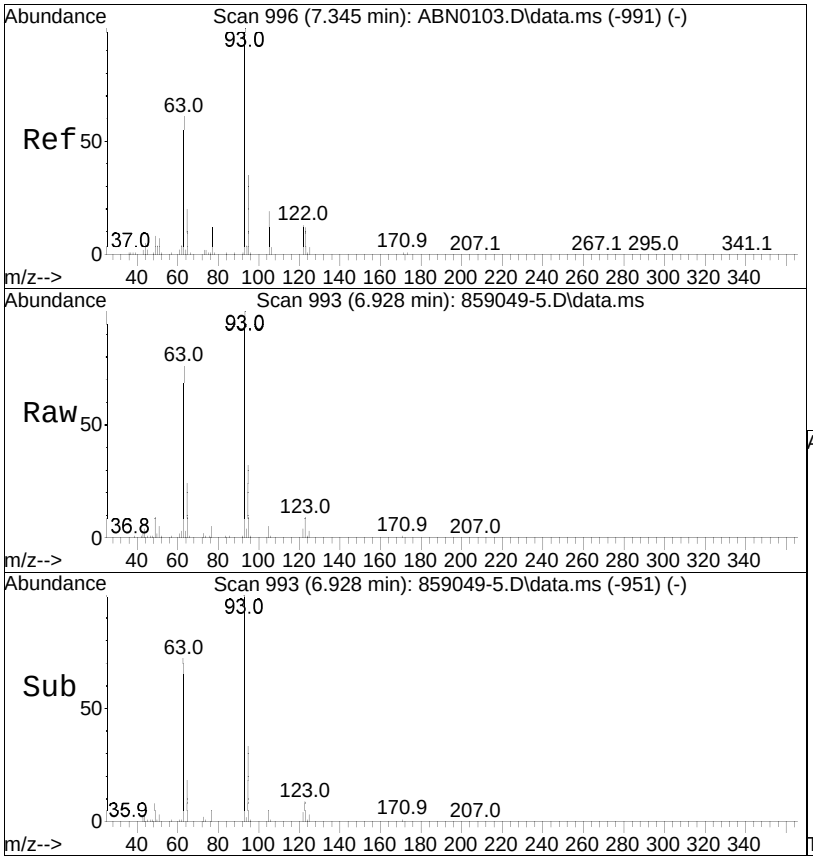


#23
2,4-Dimethylphenol
Concen: 1.64 ug/ml
RT: 6.845 min Scan# 979
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:107 Resp: 19742

Ion	Ratio	Lower	Upper
107	100		
121	46.3	40.0	60.0
122	79.2	70.2	105.4

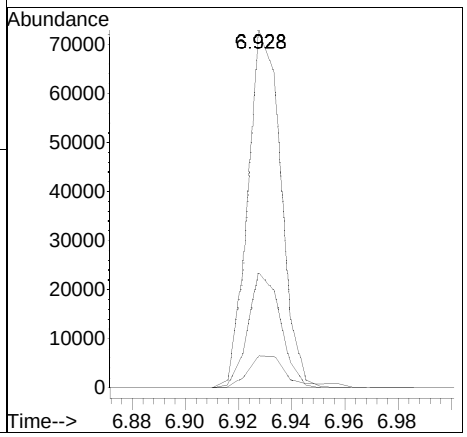


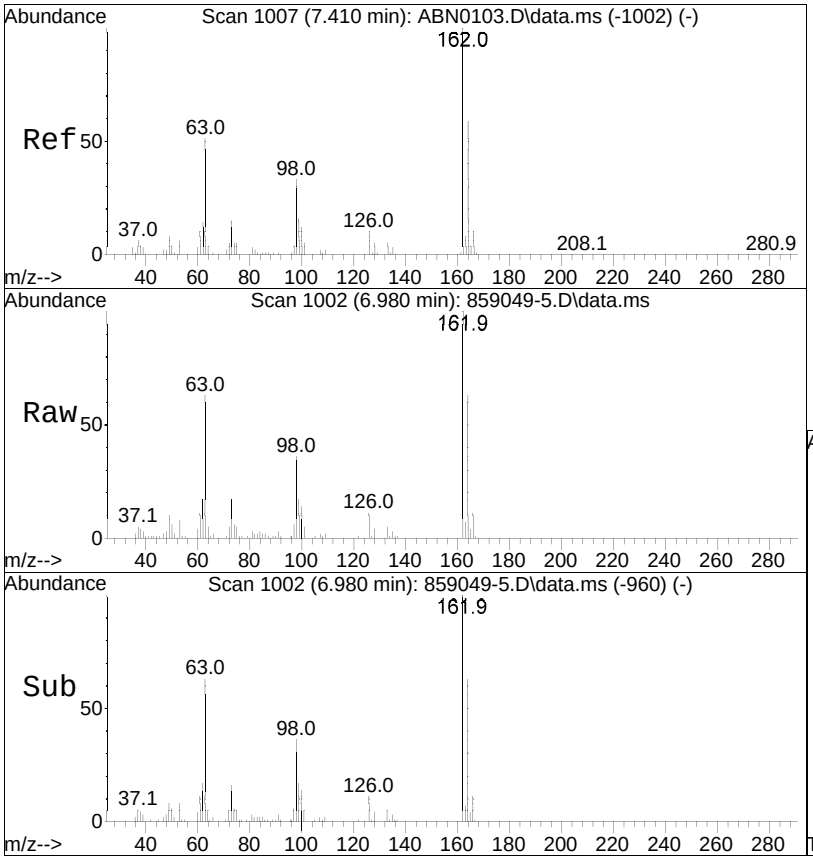


#24
Bis(2-chloroethoxy)methane
Concen: 4.31 ug/ml
RT: 6.928 min Scan# 993
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion: 93 Resp: 62818

Ion	Ratio	Lower	Upper
93	100		
95	31.8	25.8	38.8
123	11.1	10.1	15.1

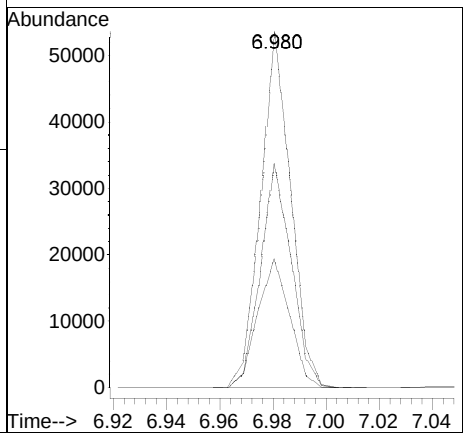


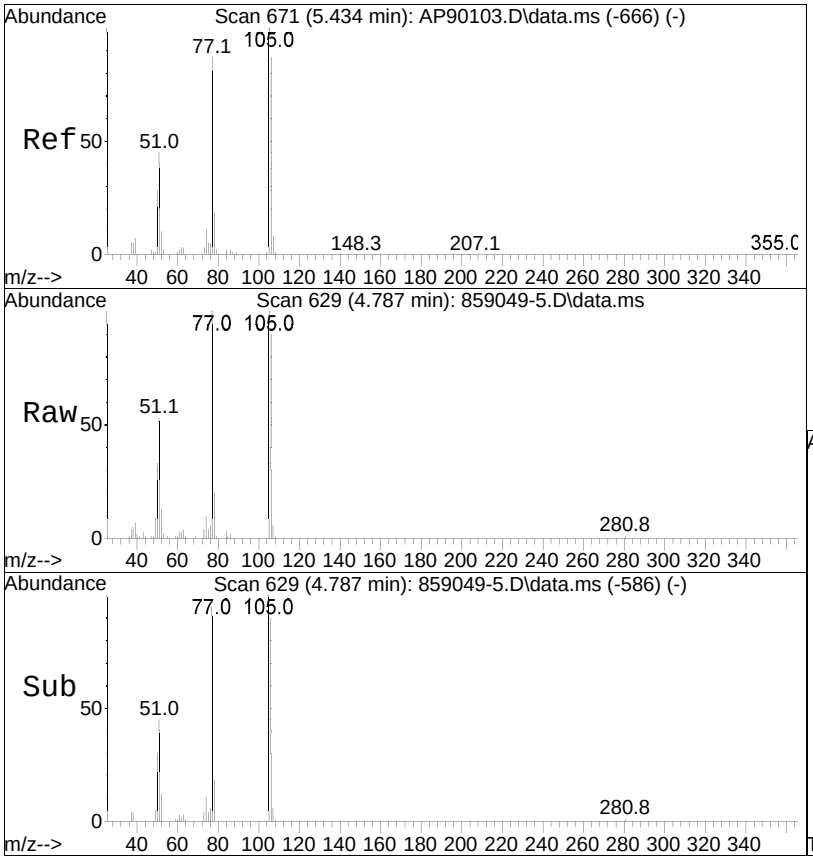


#25
2,4-Dichlorophenol
Concen: 4.16 ug/ml
RT: 6.980 min Scan# 1002
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:162 Resp: 42010

Ion	Ratio	Lower	Upper
162	100		
164	64.9	51.0	76.4
98	38.8	32.2	48.2

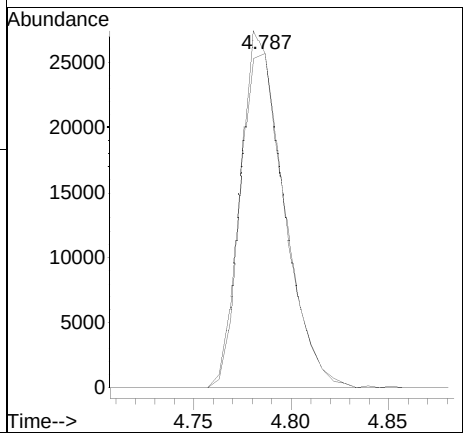


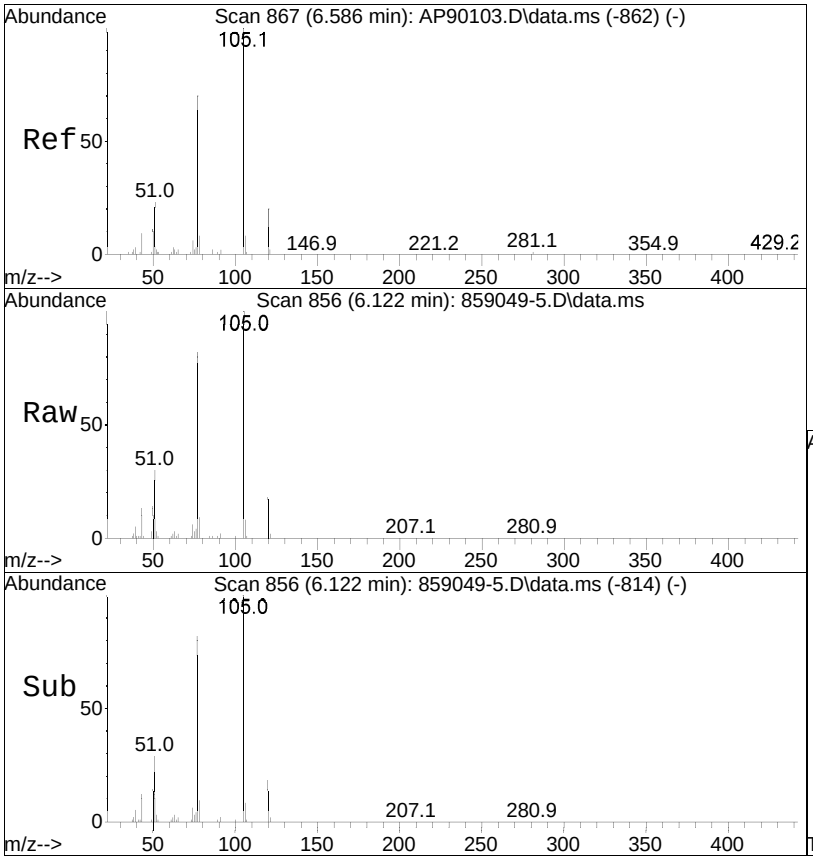


#28
Benzaldehyde
Concen: 4.70 ug/ml
RT: 4.787 min Scan# 629
Delta R.T. 0.006 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:105 Resp: 40972

Ion	Ratio	Lower	Upper
105	100		
77	103.3	82.2	123.4

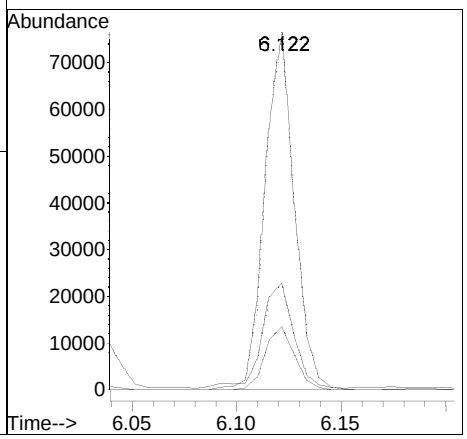


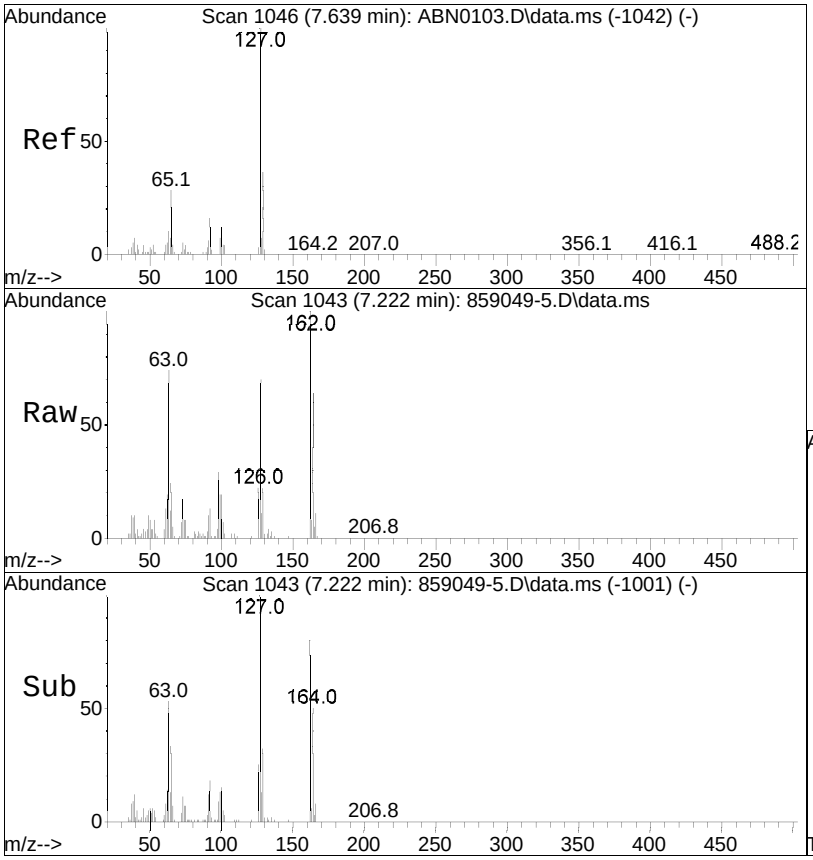


#29
Acetophenone
Concen: 3.97 ug/ml
RT: 6.122 min Scan# 856
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:105 Resp: 74343

Ion	Ratio	Lower	Upper
105	100		
120	17.7	20.5	30.7#
51	31.8	34.9	52.3#

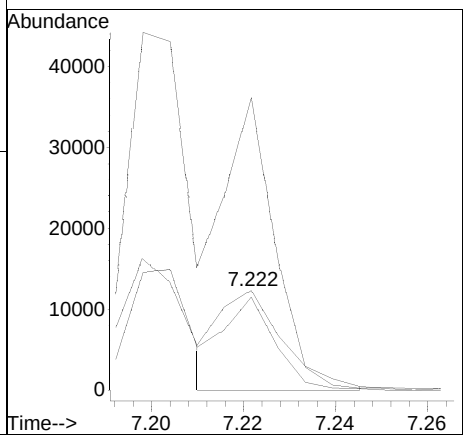


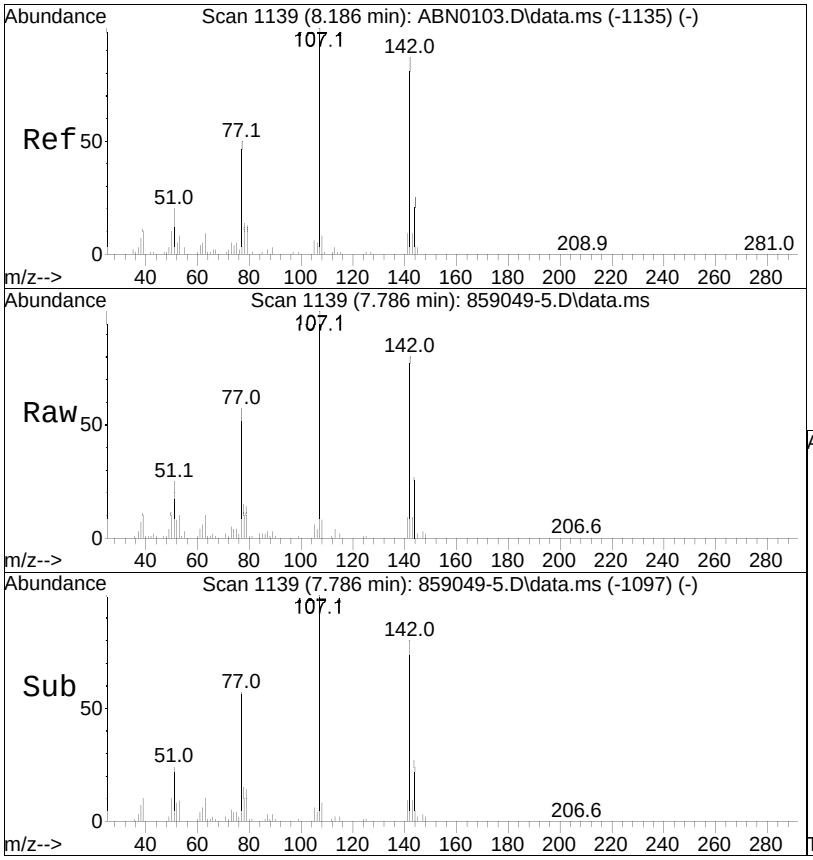


#37
4-Chloroaniline
Concen: 2.64 ug/ml M3
RT: 7.222 min Scan# 1043
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion: 65 Resp: 11962

Ion	Ratio	Lower	Upper
65	100		
127	410.3	237.6	356.4#
129	135.9	76.3	114.5#

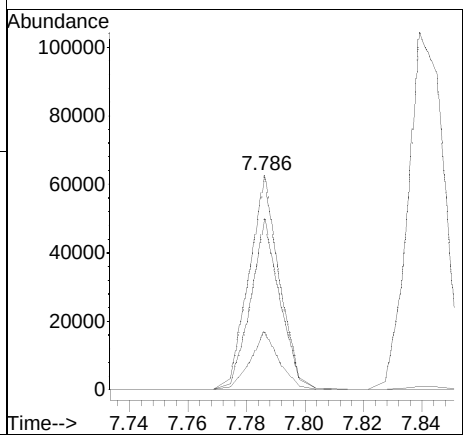


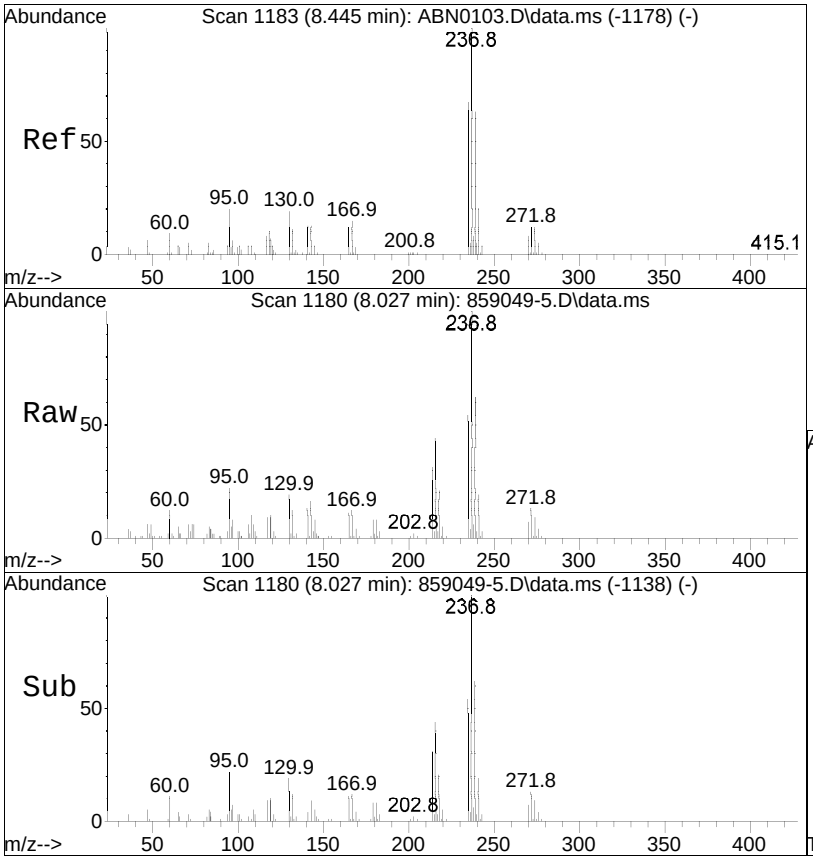


#39
p-Chloro-m-cresol
Concen: 4.50 ug/ml
RT: 7.786 min Scan# 1139
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:107 Resp: 45045

Ion	Ratio	Lower	Upper
107	100		
144	25.4	20.9	31.3
142	77.1	66.1	99.1

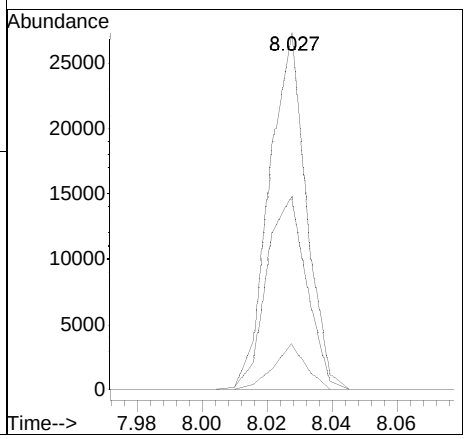


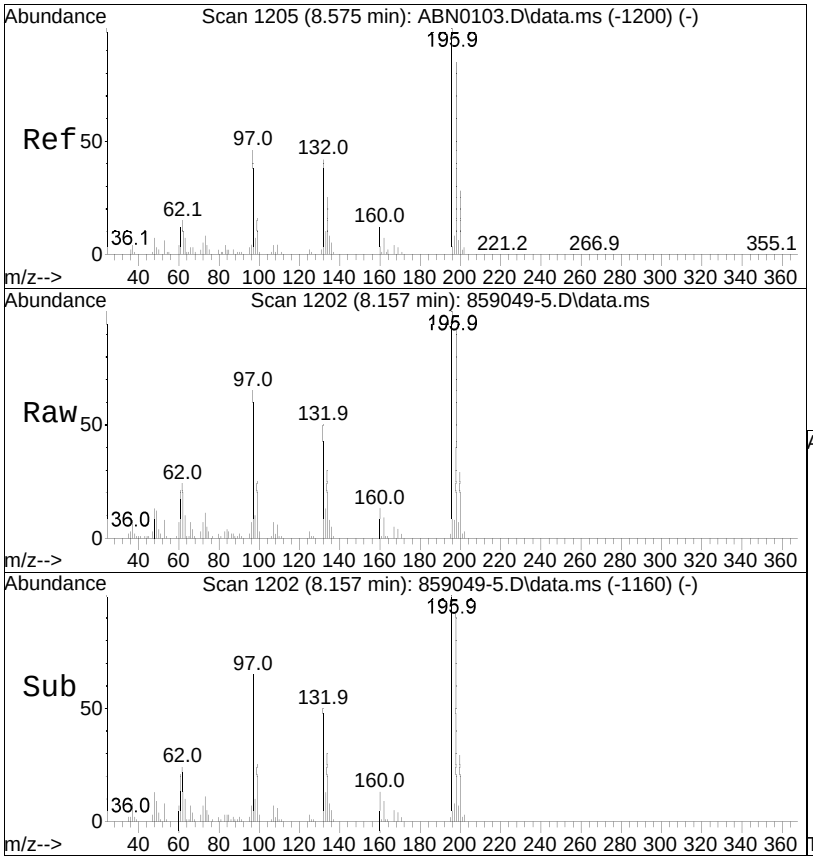


#42
Hexachlorocyclopentadiene
Concen: 2.86 ug/ml
RT: 8.027 min Scan# 1180
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:237 Resp: 21511

Ion	Ratio	Lower	Upper
237	100		
235	59.1	49.7	74.5
272	11.3	9.8	14.6

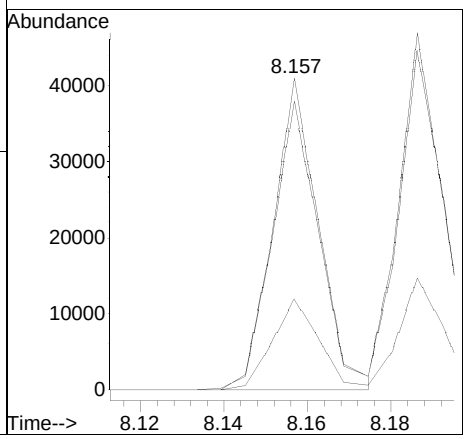


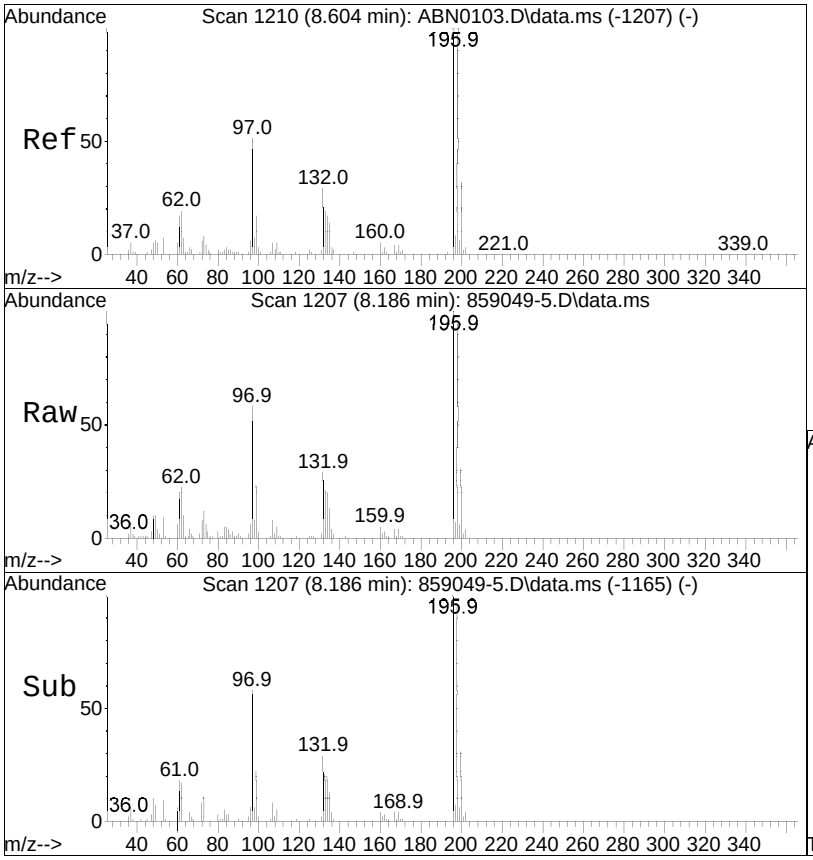


#43
2,4,6-Trichlorophenol
Concen: 4.34 ug/ml
RT: 8.157 min Scan# 1202
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:196 Resp: 31089

Ion	Ratio	Lower	Upper
196	100		
198	94.8	77.5	116.3
200	30.1	23.8	35.6

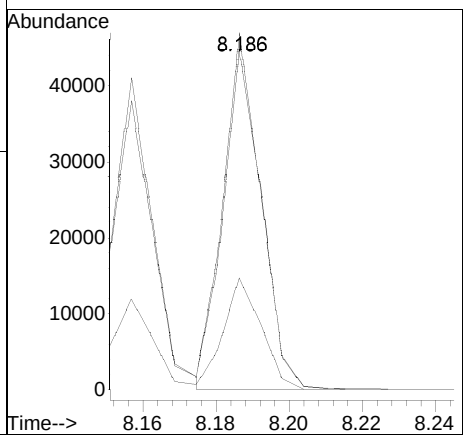


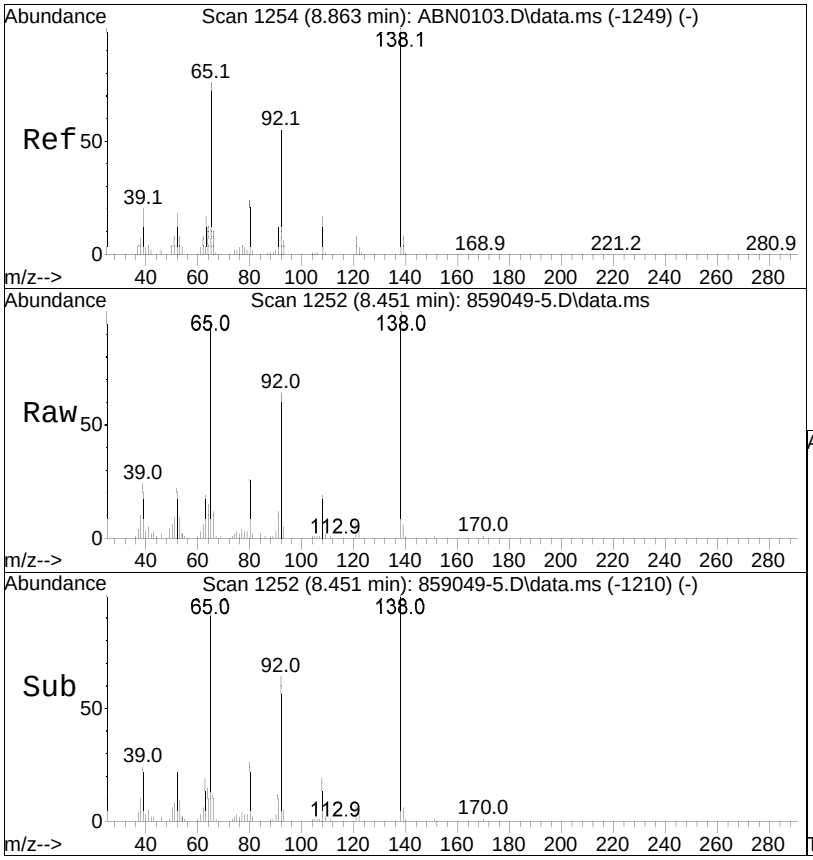


#44
2,4,5-Trichlorophenol
Concen: 4.37 ug/ml
RT: 8.186 min Scan# 1207
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:196 Resp: 33650

Ion	Ratio	Lower	Upper
196	100		
200	31.4	25.4	38.0
198	96.8	78.0	117.0

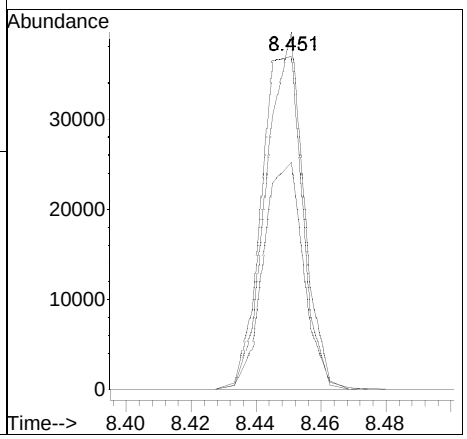


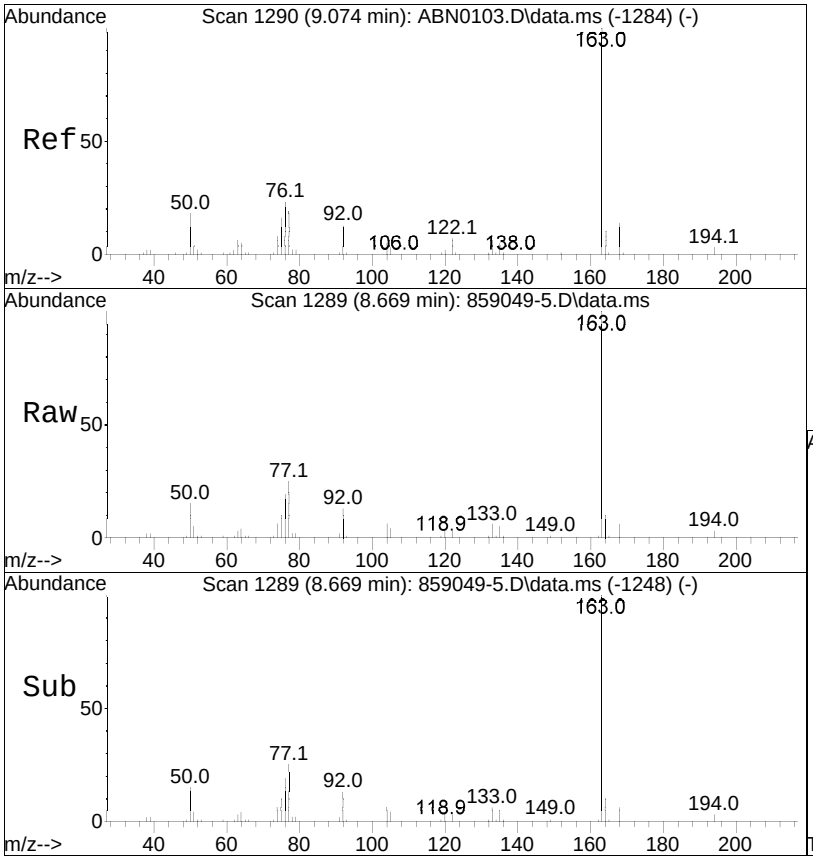


#47
2-Nitroaniline
Concen: 4.95 ug/ml
RT: 8.451 min Scan# 1252
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:138 Resp: 31414

Ion	Ratio	Lower	Upper
138	100		
92	68.6	53.5	80.3
65	103.0	86.3	129.5

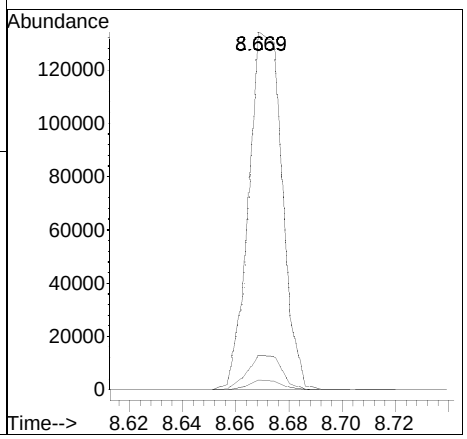


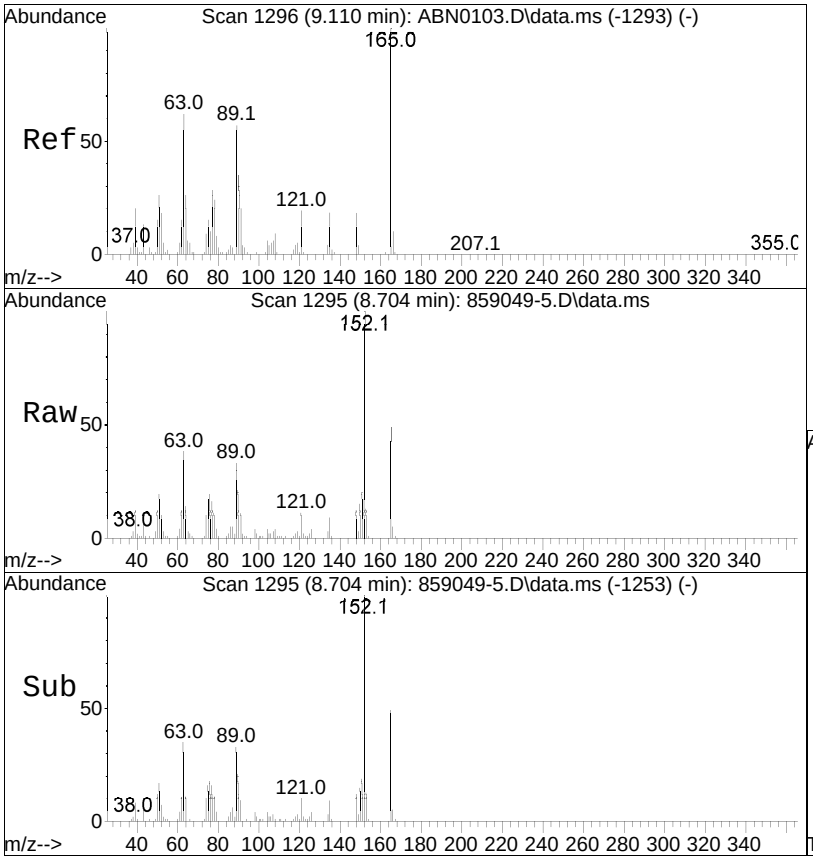


#50
Dimethyl phthalate
Concen: 4.30 ug/ml
RT: 8.669 min Scan# 1289
Delta R.T. -0.006 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:163 Resp: 116183

Ion	Ratio	Lower	Upper
163	100		
194	2.7	3.5	5.3#
164	10.0	7.9	11.9

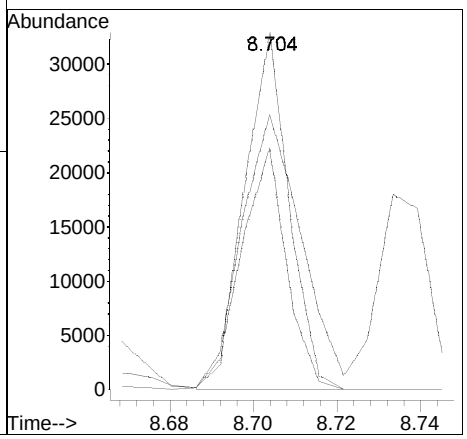


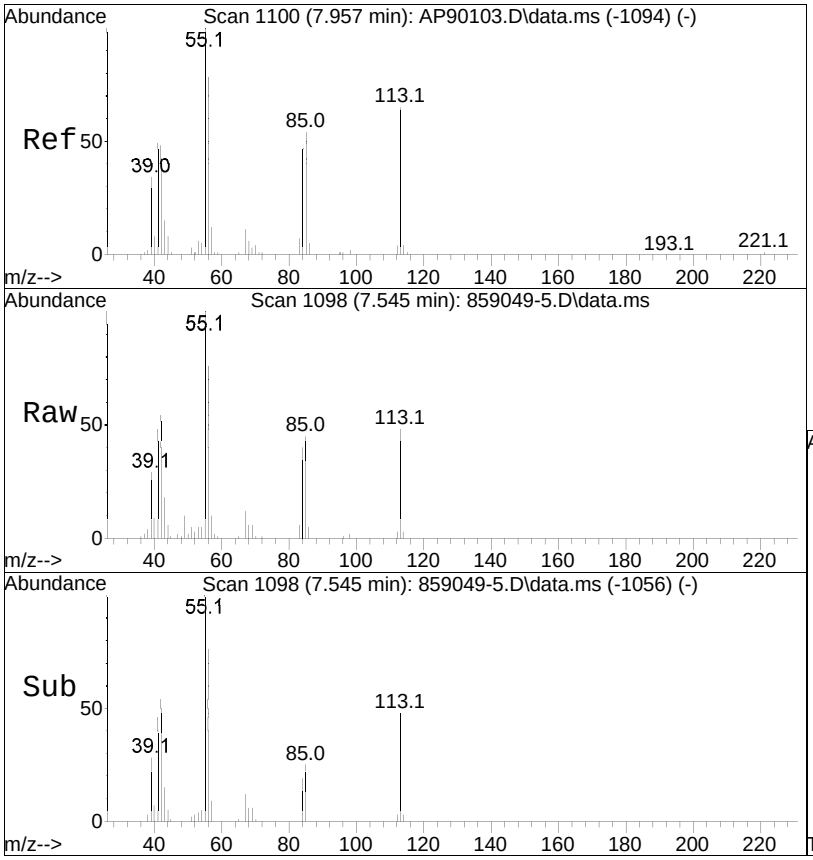


#52
2,6-Dinitrotoluene
Concen: 4.71 ug/ml
RT: 8.704 min Scan# 1295
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:165 Resp: 24345

Ion	Ratio	Lower	Upper
165	100		
89	69.0	54.2	81.2
63	103.5	64.2	96.2#

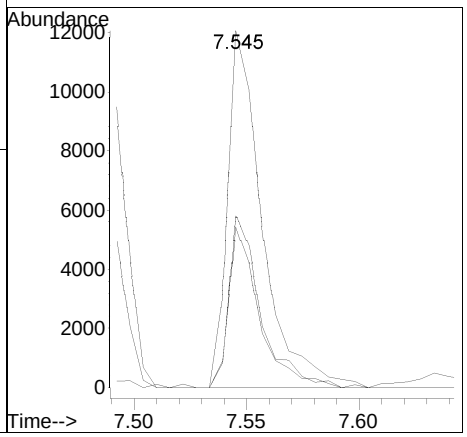


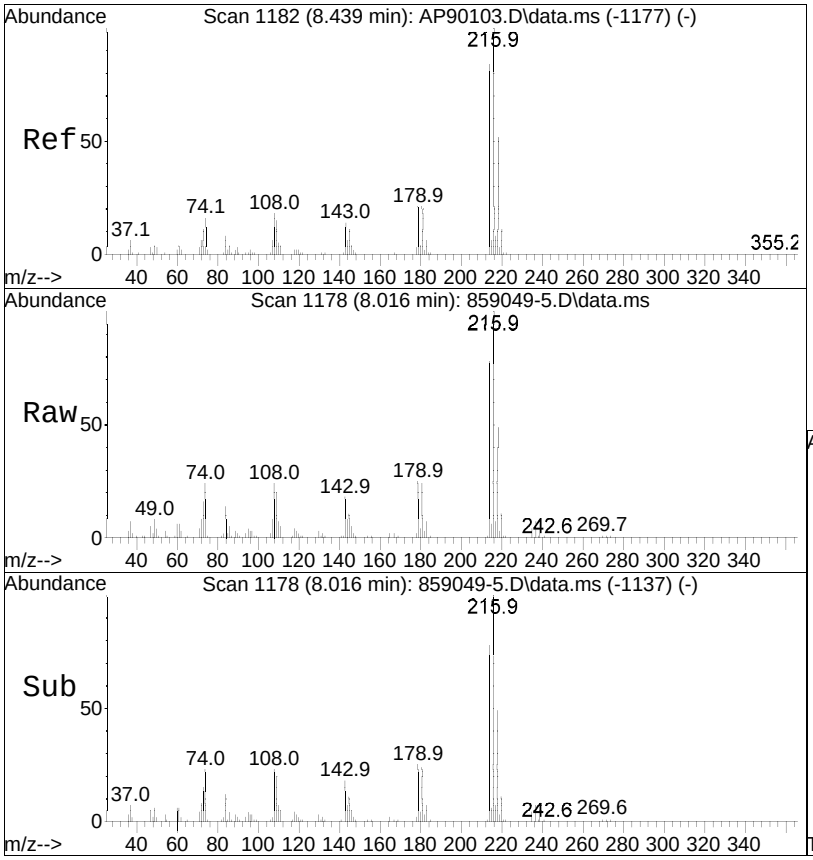


#59
Caprolactam
Concen: 2.58 ug/ml
RT: 7.545 min Scan# 1098
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion: 55 Resp: 12970

Ion	Ratio	Lower	Upper
55	100		
85	40.1	19.8	29.6#
113	43.9	29.6	44.4

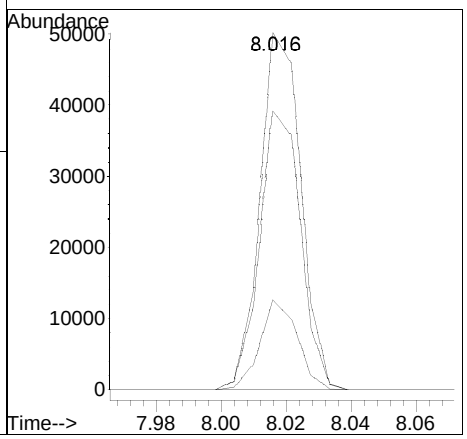


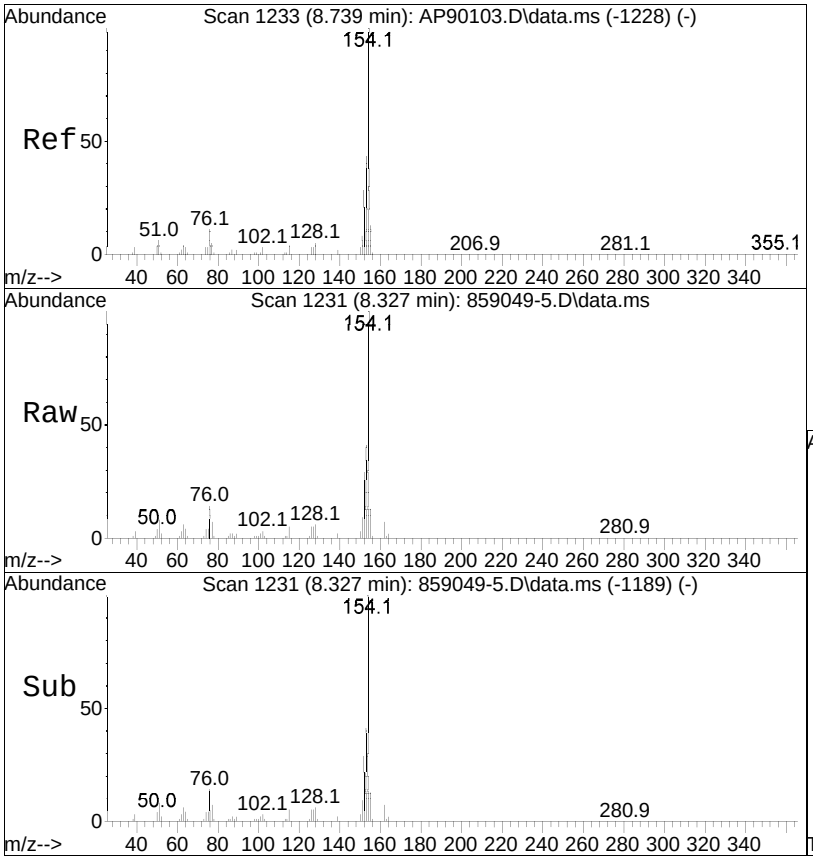


#60
1,2,4,5-Tetrachlorobenzene
Concen: 3.66 ug/ml
RT: 8.016 min Scan# 1178
Delta R.T. -0.006 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:216 Resp: 43766

Ion	Ratio	Lower	Upper
216	100		
214	78.5	63.7	95.5
179	23.0	19.0	28.6

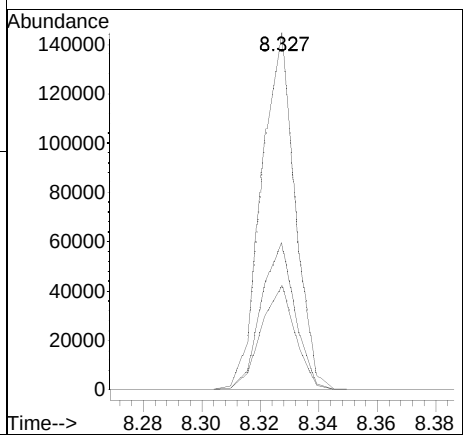


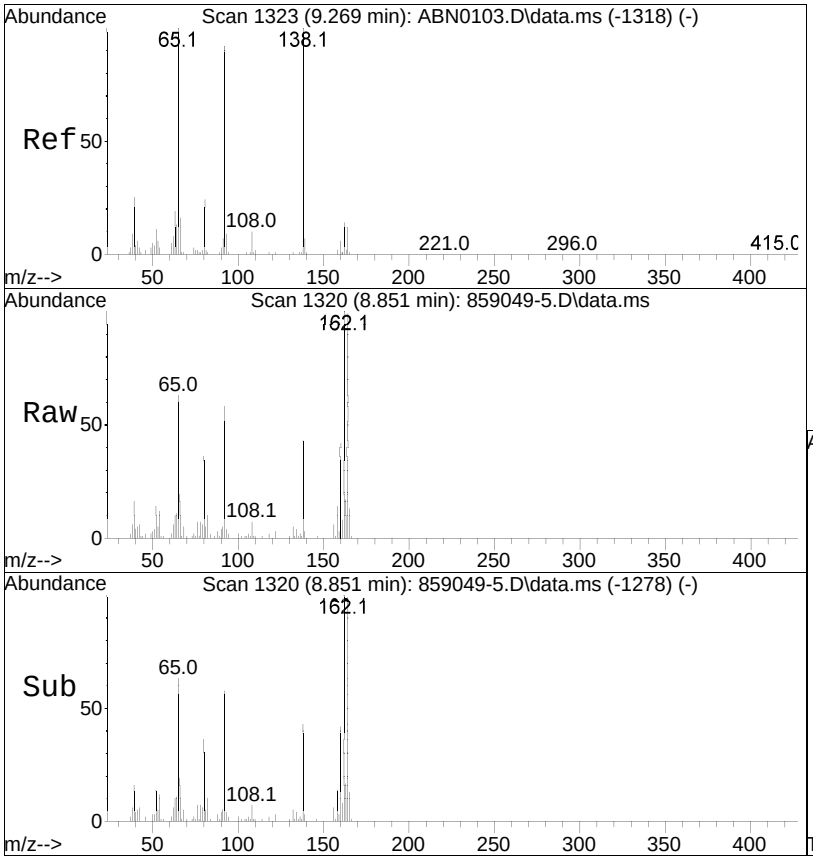


#61
Biphenyl
Concen: 3.91 ug/ml
RT: 8.327 min Scan# 1231
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:154 Resp: 114846

Ion	Ratio	Lower	Upper
154	100		
153	41.6	32.3	48.5
152	30.0	22.5	33.7

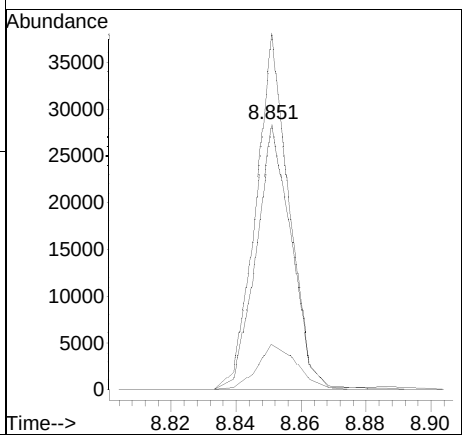


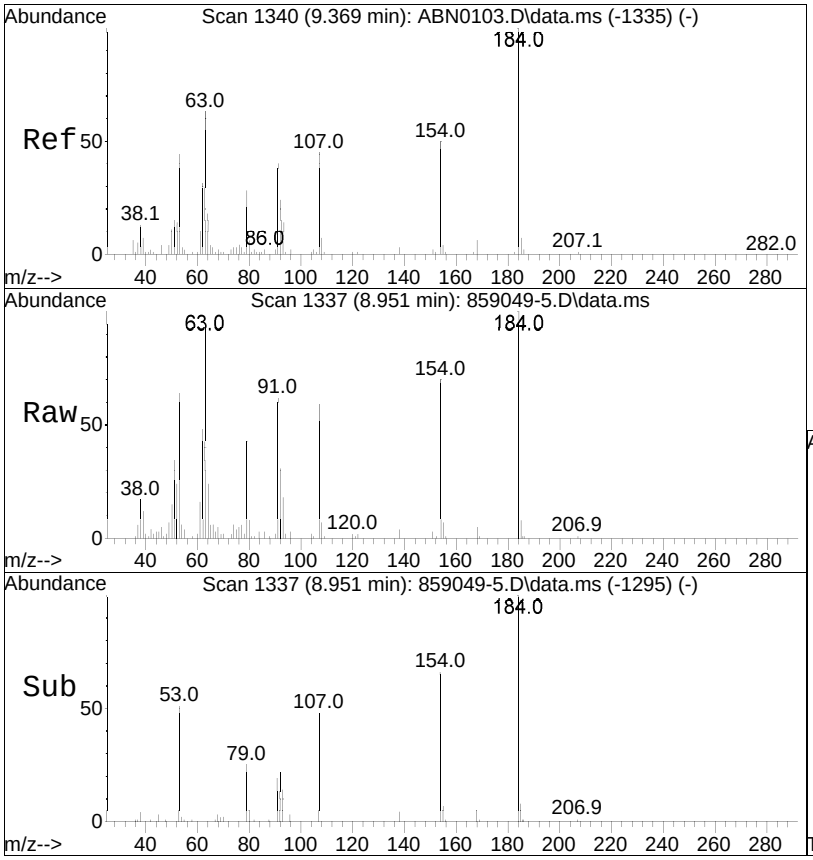


#63
3-Nitroaniline
Concen: 3.80 ug/ml
RT: 8.851 min Scan# 1320
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:138 Resp: 21462

Ion	Ratio	Lower	Upper
138	100		
92	126.2	93.4	140.2
108	19.0	9.5	14.3#

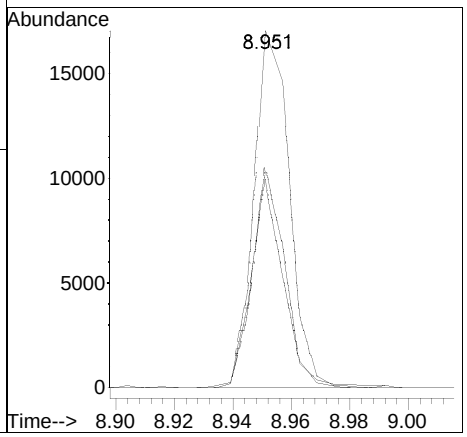


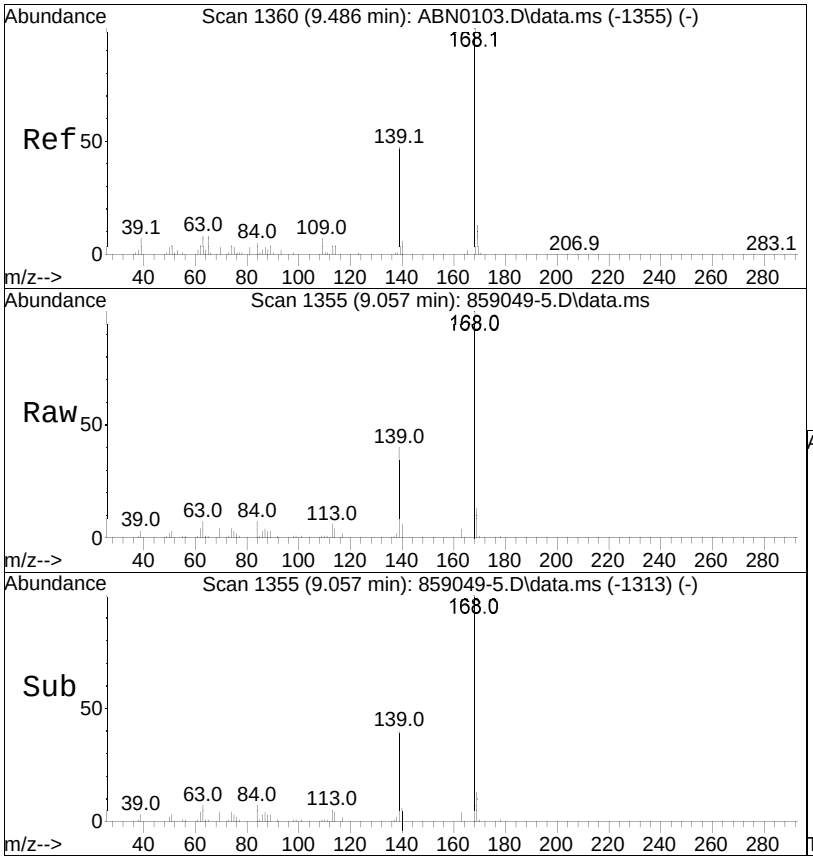


#65
2,4-Dinitrophenol
Concen: 5.60 ug/ml
RT: 8.951 min Scan# 1337
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:184 Resp: 14330

Ion	Ratio	Lower	Upper
184	100		
107	51.9	37.7	56.5
91	57.7	46.3	69.5

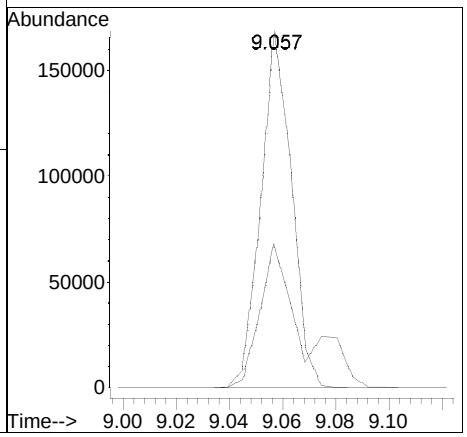


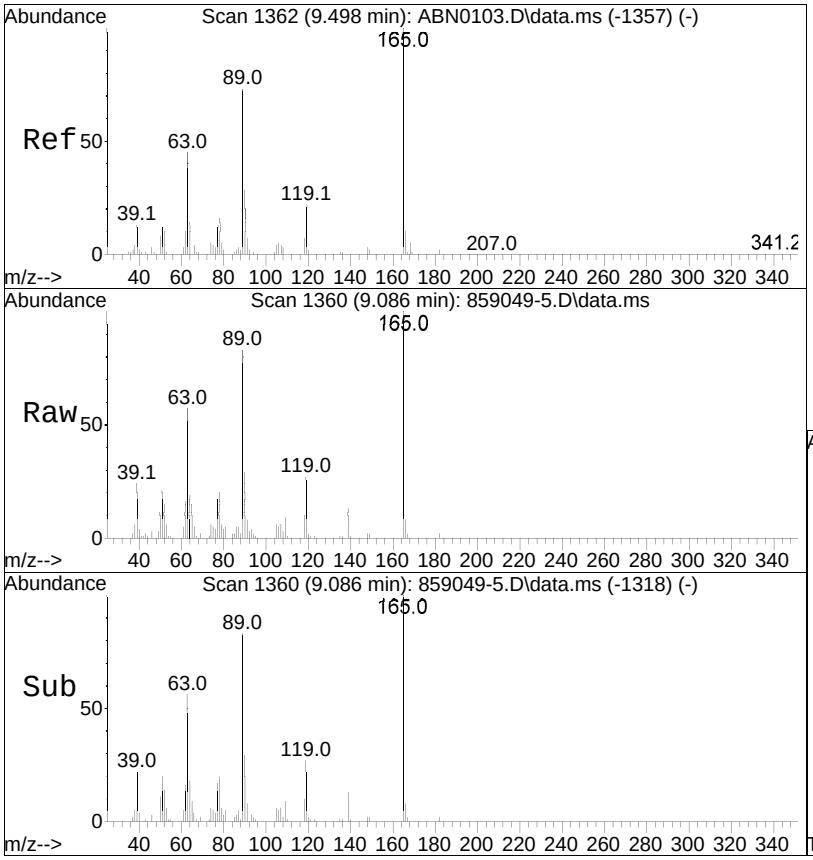


#66
Dibenzofuran
Concen: 3.99 ug/ml
RT: 9.057 min Scan# 1355
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:168 Resp: 133289

Ion	Ratio	Lower	Upper
168	100		
139	55.9	31.4	47.2#

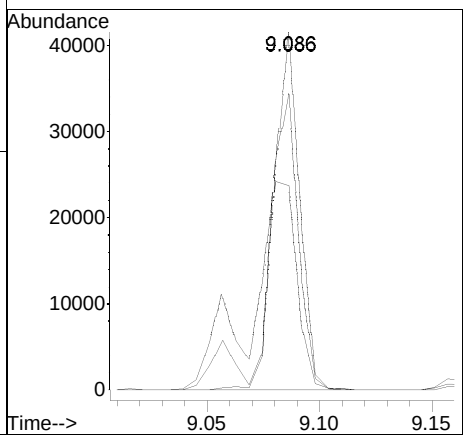


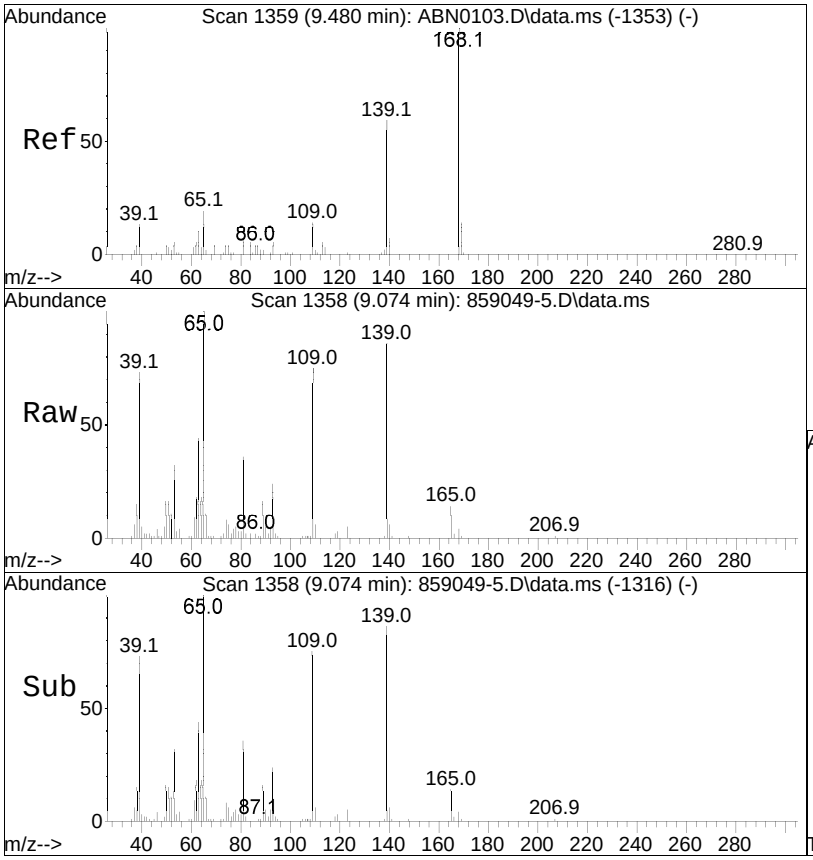


#67
2,4-Dinitrotoluene
Concen: 4.58 ug/ml
RT: 9.086 min Scan# 1360
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:165 Resp: 32442

Ion	Ratio	Lower	Upper
165	100		
89	85.6	72.0	108.0
63	74.5	52.7	79.1

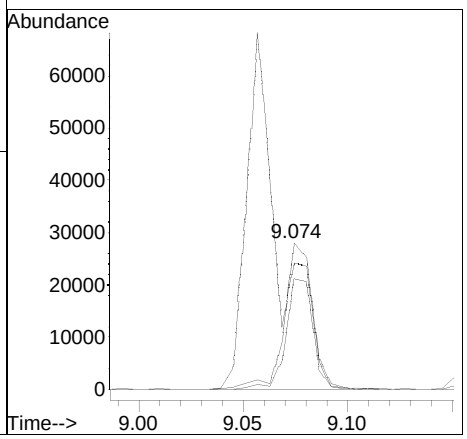


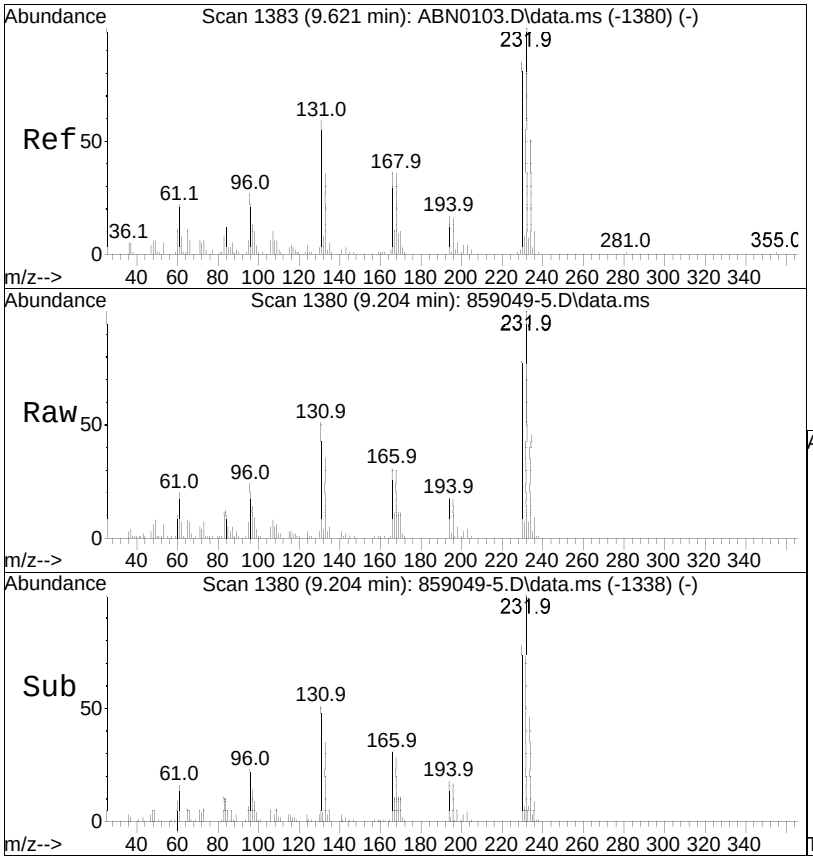


#68
4-Nitrophenol
Concen: 4.91 ug/ml
RT: 9.074 min Scan# 1358
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion: 65 Resp: 26303

Ion	Ratio	Lower	Upper
65	100		
109	72.4	47.4	71.2#
139	283.4	76.6	115.0#

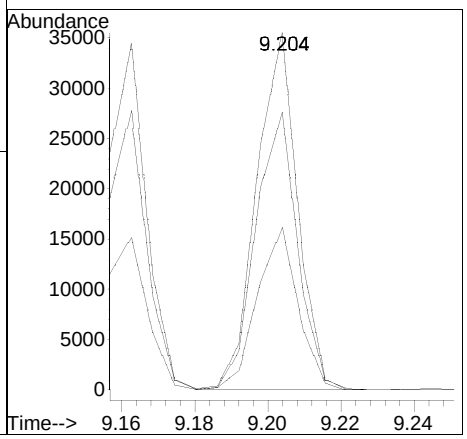


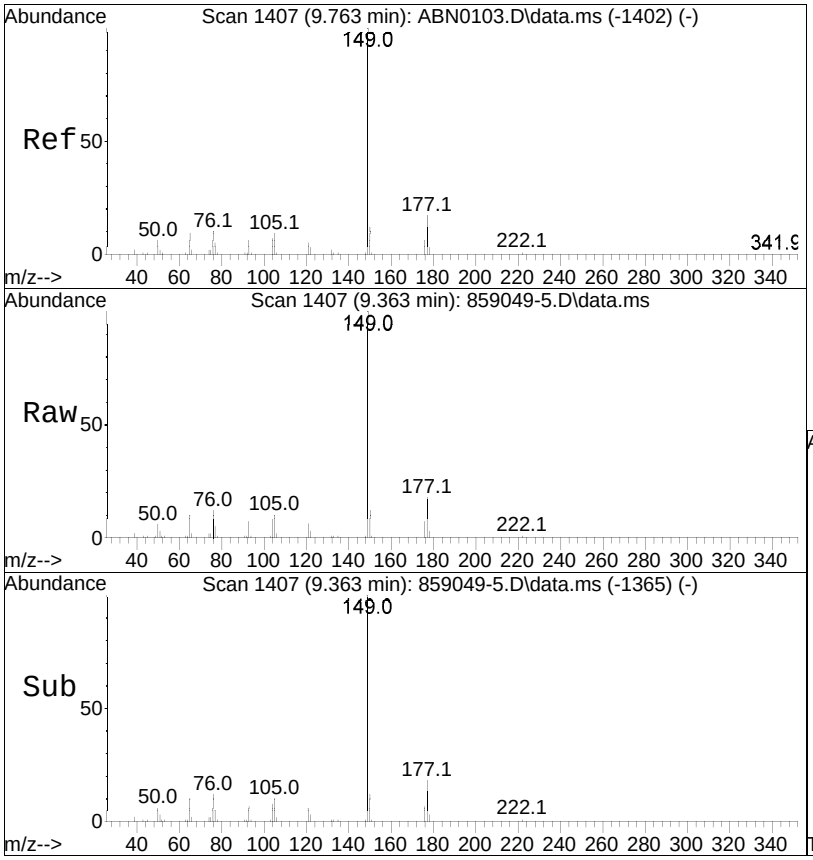


#70
2,3,4,6-Tetrachlorophenol
Concen: 4.15 ug/ml
RT: 9.204 min Scan# 1380
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:232 Resp: 27659

Ion	Ratio	Lower	Upper
232	100		
230	79.6	61.8	92.8
234	45.6	36.2	54.2

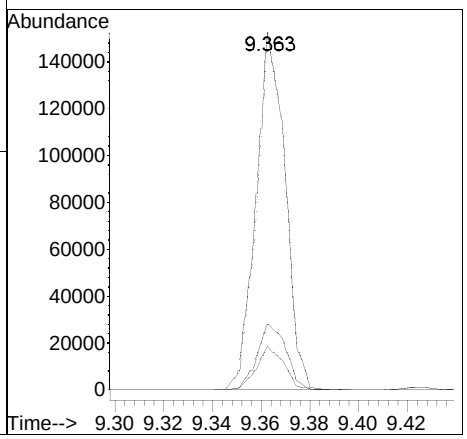


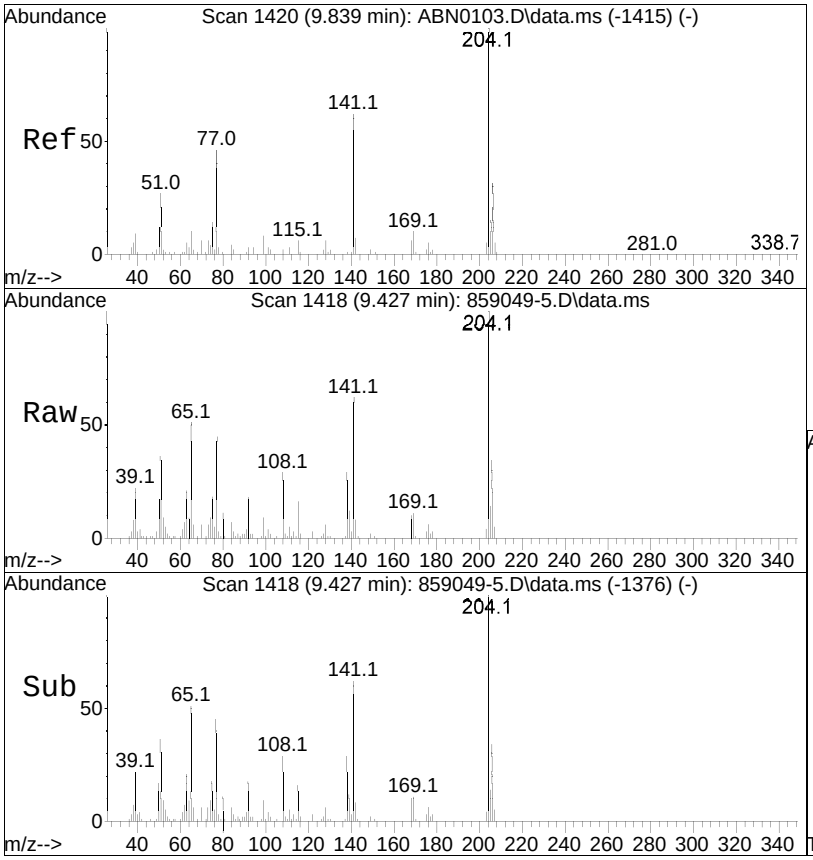


#71
Diethyl phthalate
Concen: 4.45 ug/ml
RT: 9.363 min Scan# 1407
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:149 Resp: 124423

Ion	Ratio	Lower	Upper
149	100		
177	18.7	16.1	24.1
150	11.9	9.4	14.2

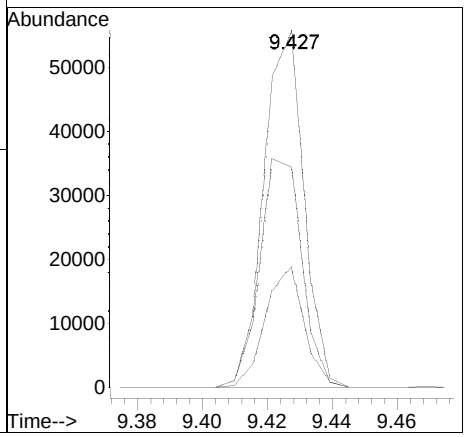


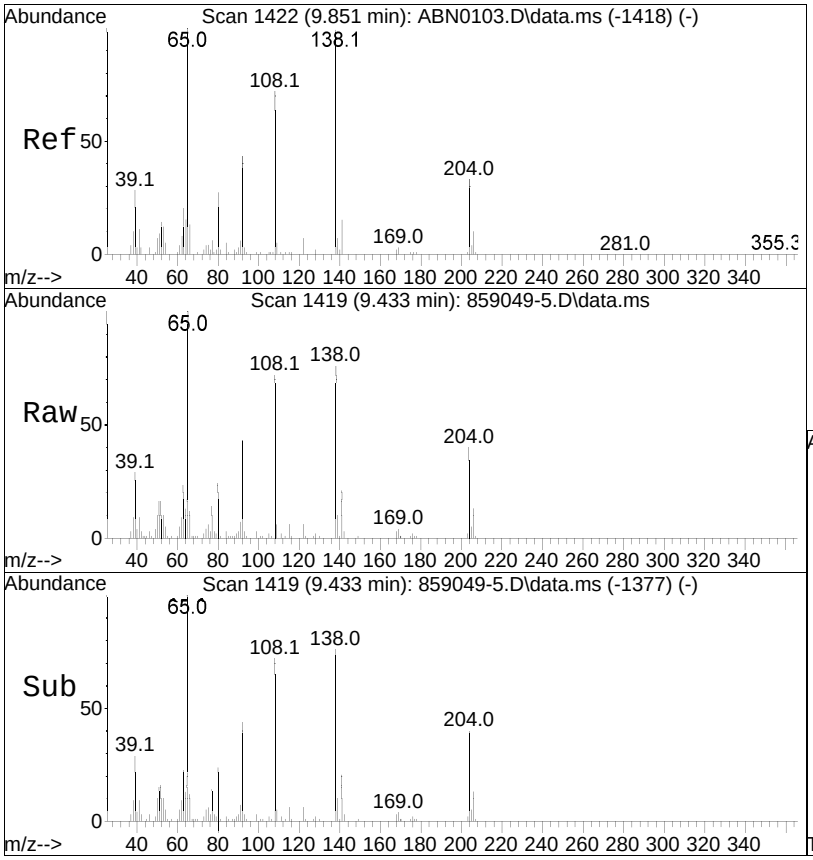


#73
4-Chlorophenyl phenyl ether
Concen: 3.78 ug/ml
RT: 9.427 min Scan# 1418
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:204 Resp: 47589

Ion	Ratio	Lower	Upper
204	100		
206	33.1	25.8	38.6
141	67.6	53.6	80.4

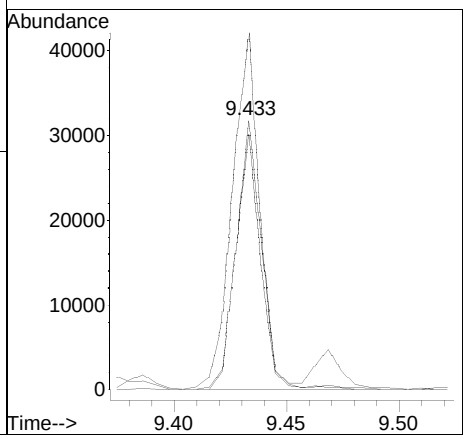


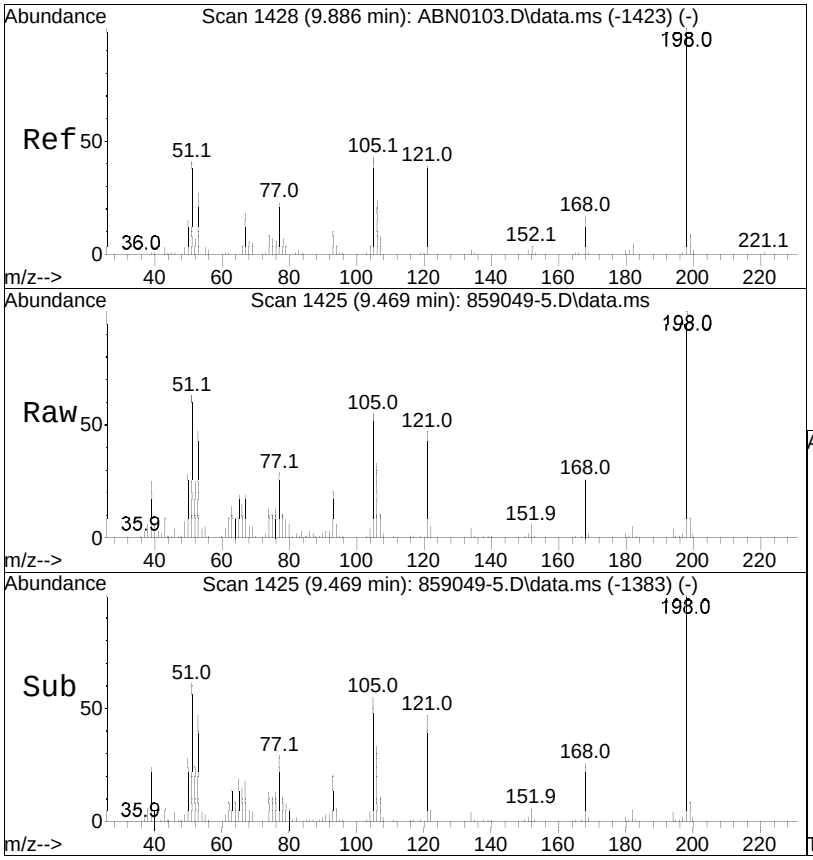


#74
4-Nitroaniline
Concen: 4.35 ug/ml
RT: 9.433 min Scan# 1419
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:138 Resp: 24818

Ion	Ratio	Lower	Upper
138	100		
108	91.3	52.1	78.1#
65	142.0	115.0	172.6

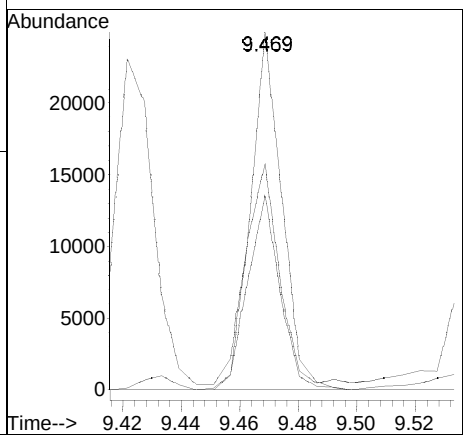


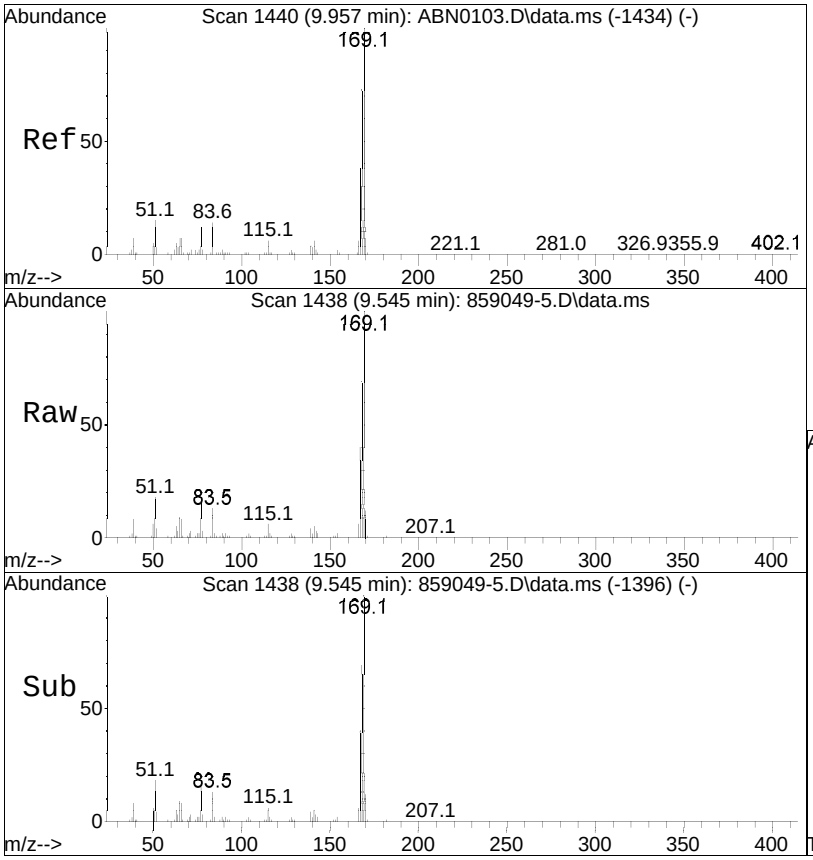


#75
4,6-Dinitro-o-cresol
Concen: 5.52 ug/ml
RT: 9.469 min Scan# 1425
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:198 Resp: 18486

Ion	Ratio	Lower	Upper
198	100		
51	68.2	76.0	114.0#
105	56.8	45.6	68.4

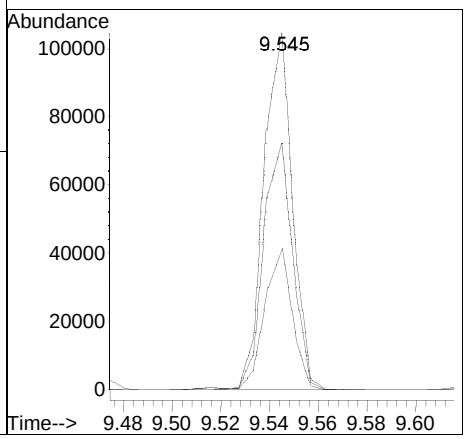


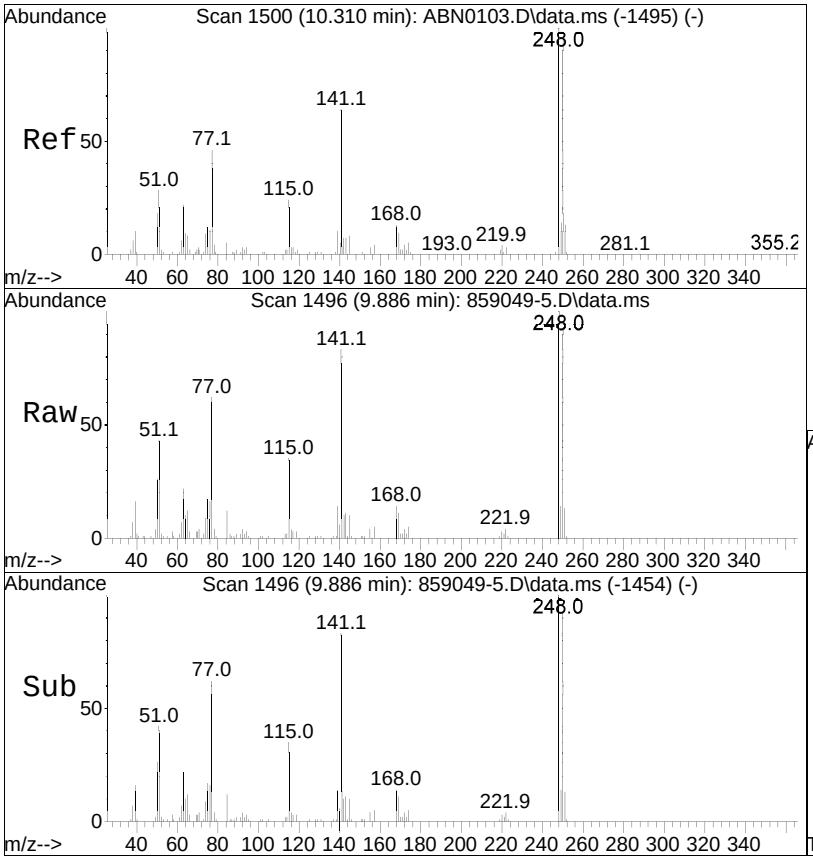


#76
NDPA/DPA
Concen: 3.83 ug/ml
RT: 9.545 min Scan# 1438
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:169 Resp: 84991

Ion	Ratio	Lower	Upper
169	100		
168	71.2	54.0	81.0
167	39.0	28.6	42.8

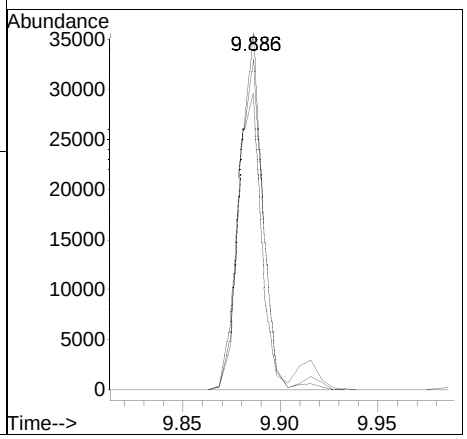


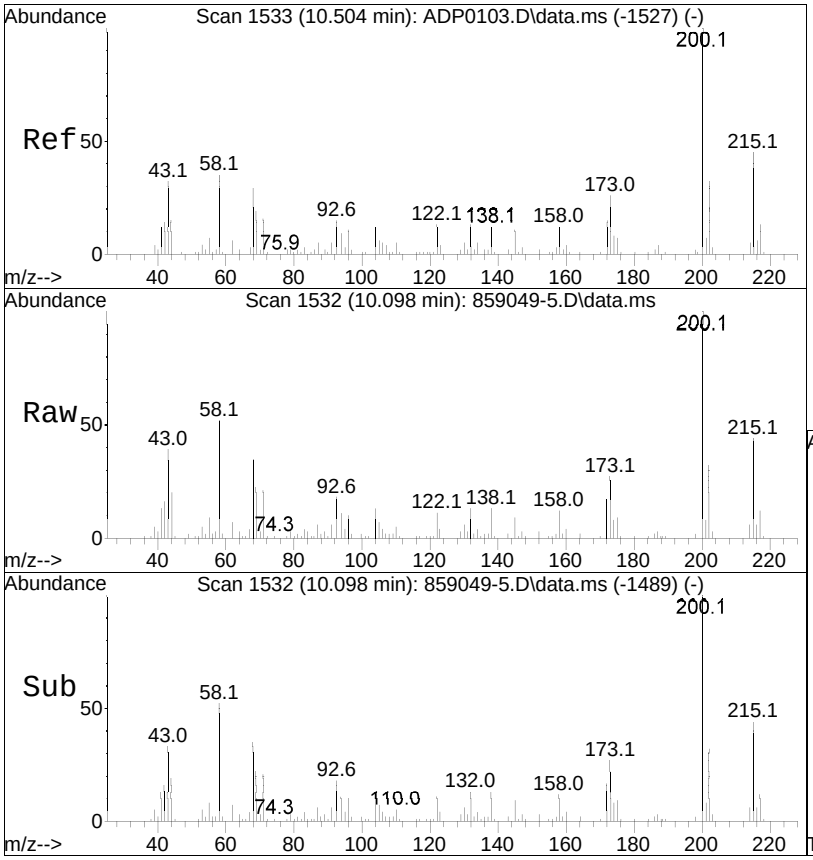


#79
4-Bromophenyl phenyl ether
Concen: 4.00 ug/ml
RT: 9.886 min Scan# 1496
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:248 Resp: 29342

Ion	Ratio	Lower	Upper
248	100		
141	87.5	76.6	114.8
250	94.6	77.3	115.9

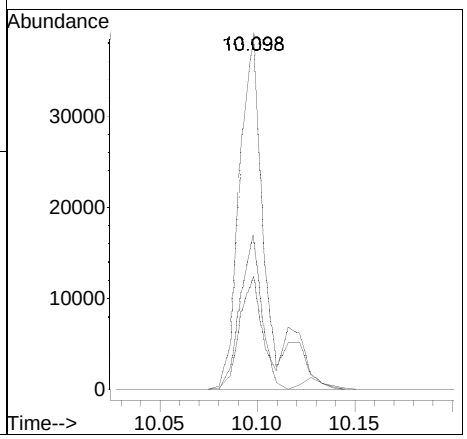


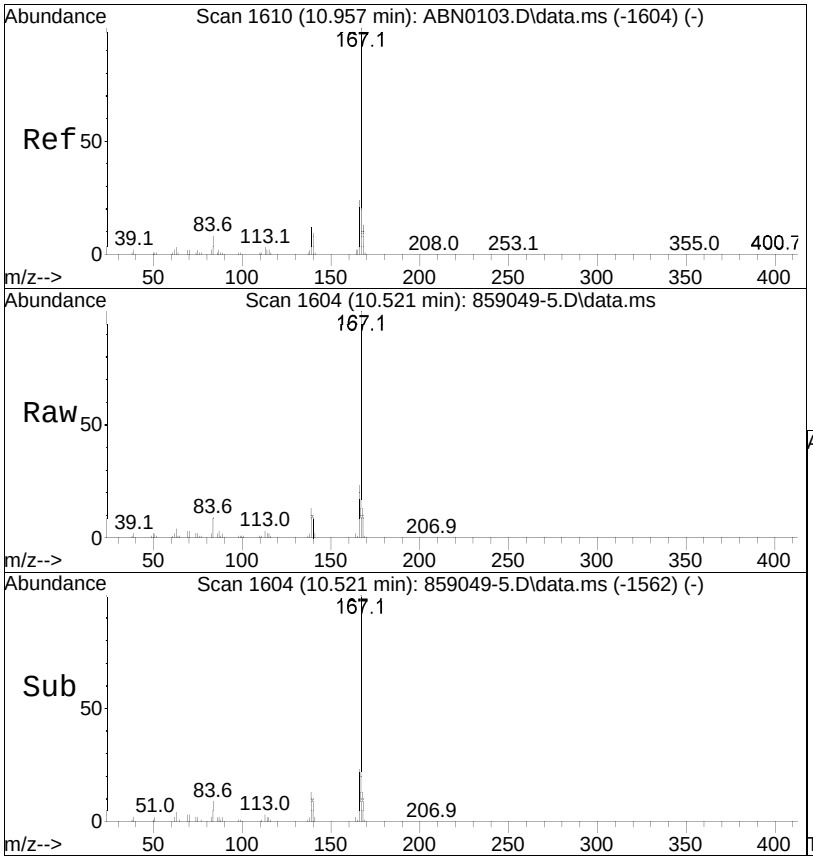


#86
Atrazine
Concen: 5.22 ug/ml
RT: 10.098 min Scan# 1532
Delta R.T. 0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:200 Resp: 35541

Ion	Ratio	Lower	Upper
200	100		
202	29.4	25.8	38.6
215	36.6	40.2	60.4#

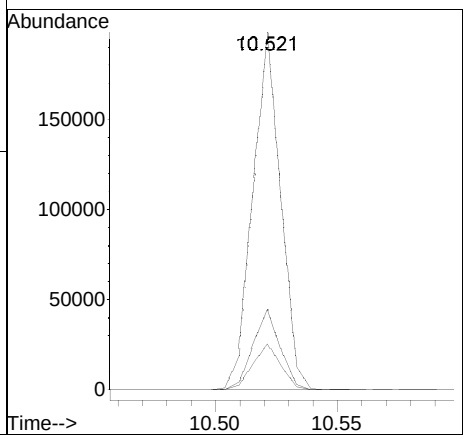


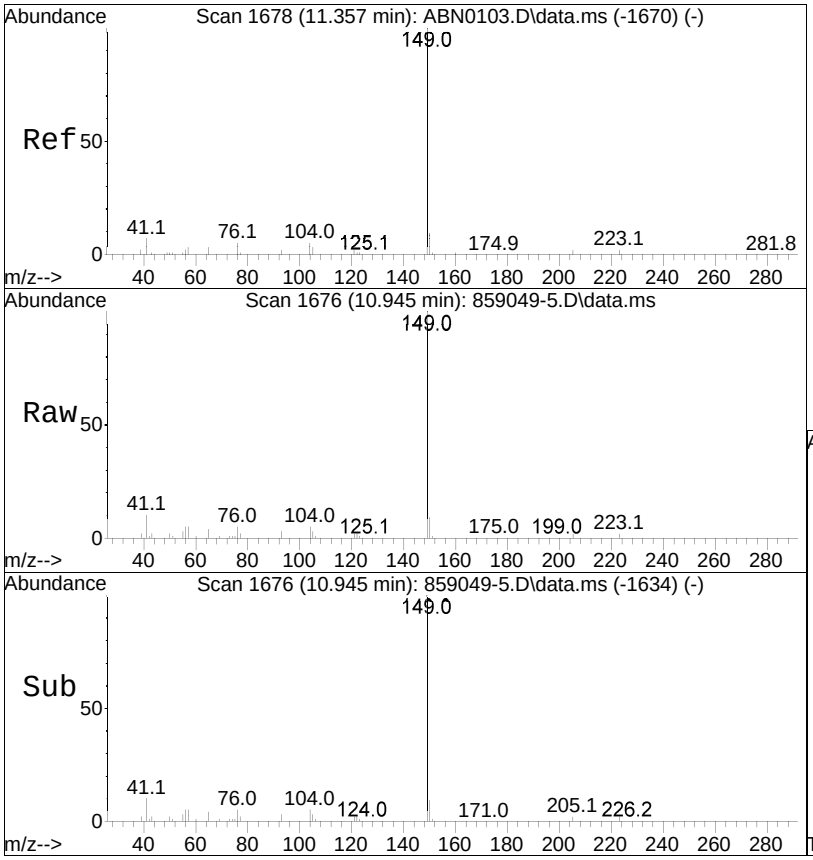


#90
Carbazole
Concen: 4.18 ug/ml
RT: 10.521 min Scan# 1604
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:167 Resp: 156008

Ion	Ratio	Lower	Upper
167	100		
168	13.2	10.6	15.8
166	22.2	17.4	26.0

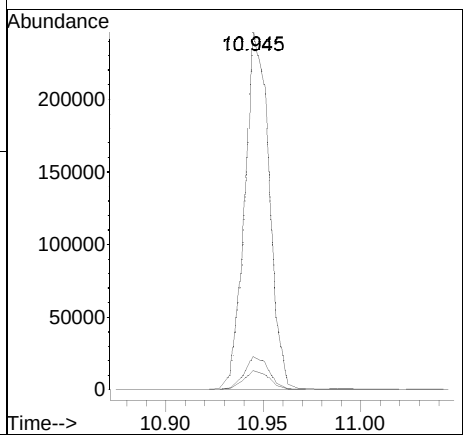


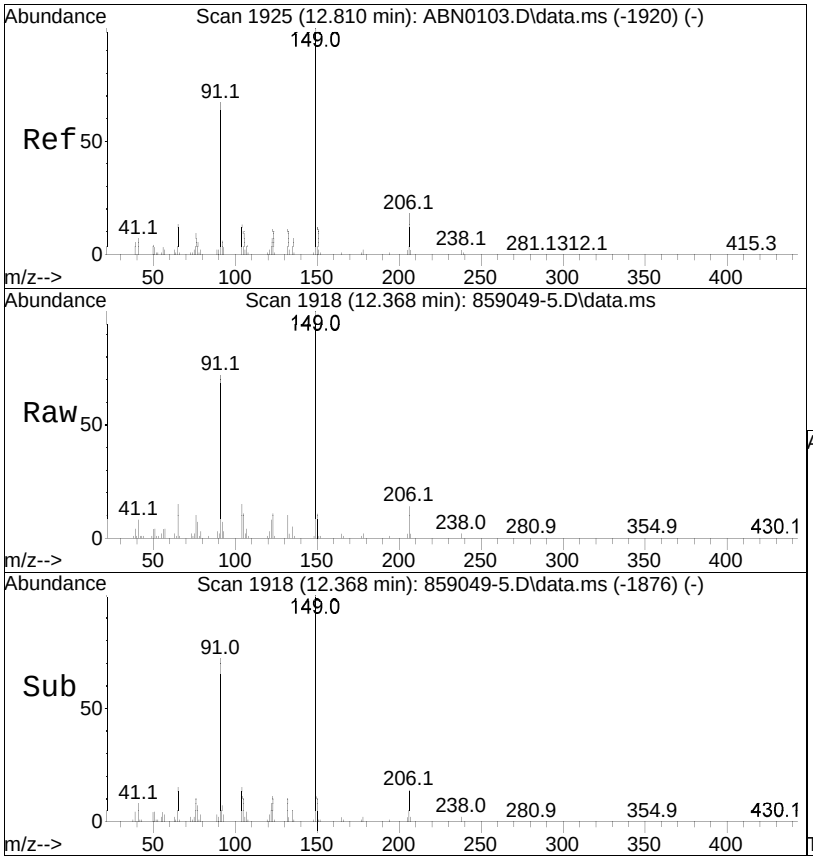


#91
Di-n-butylphthalate
Concen: 4.42 ug/ml
RT: 10.945 min Scan# 1676
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:149 Resp: 211436

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.0	10.6
104	5.6	4.5	6.7

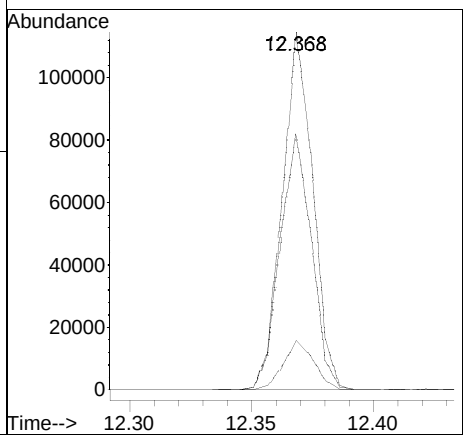


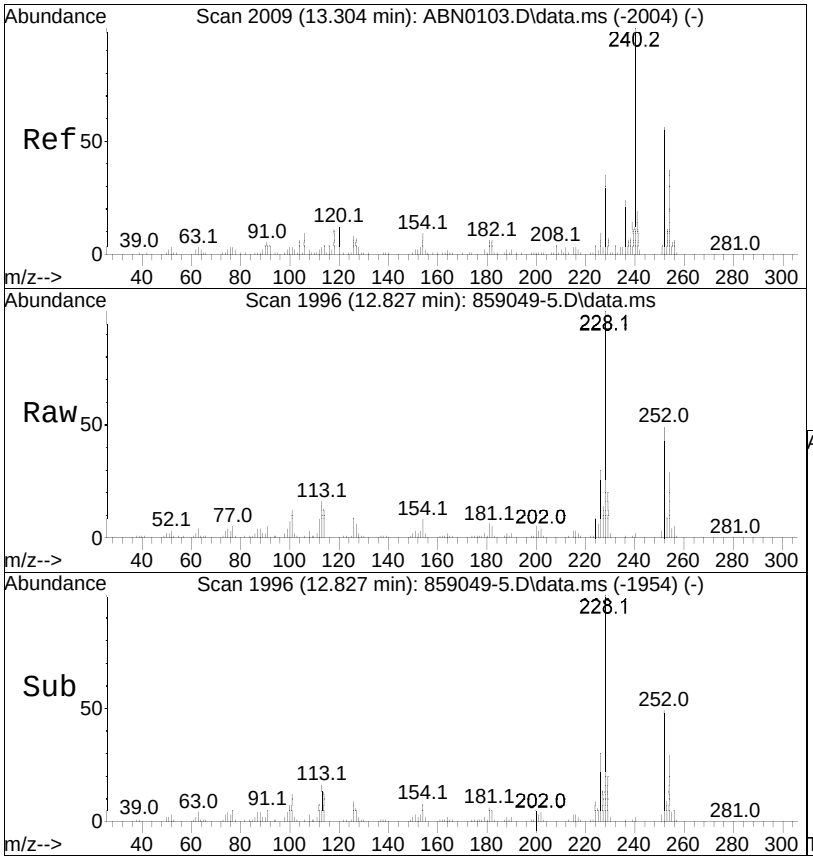


#96
Butyl benzyl phthalate
Concen: 4.84 ug/ml
RT: 12.368 min Scan# 1918
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:149 Resp: 98700

Ion	Ratio	Lower	Upper
149	100		
91	73.7	63.3	94.9
206	13.9	13.9	20.9#

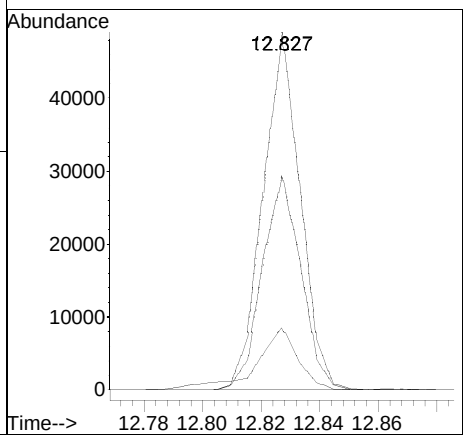


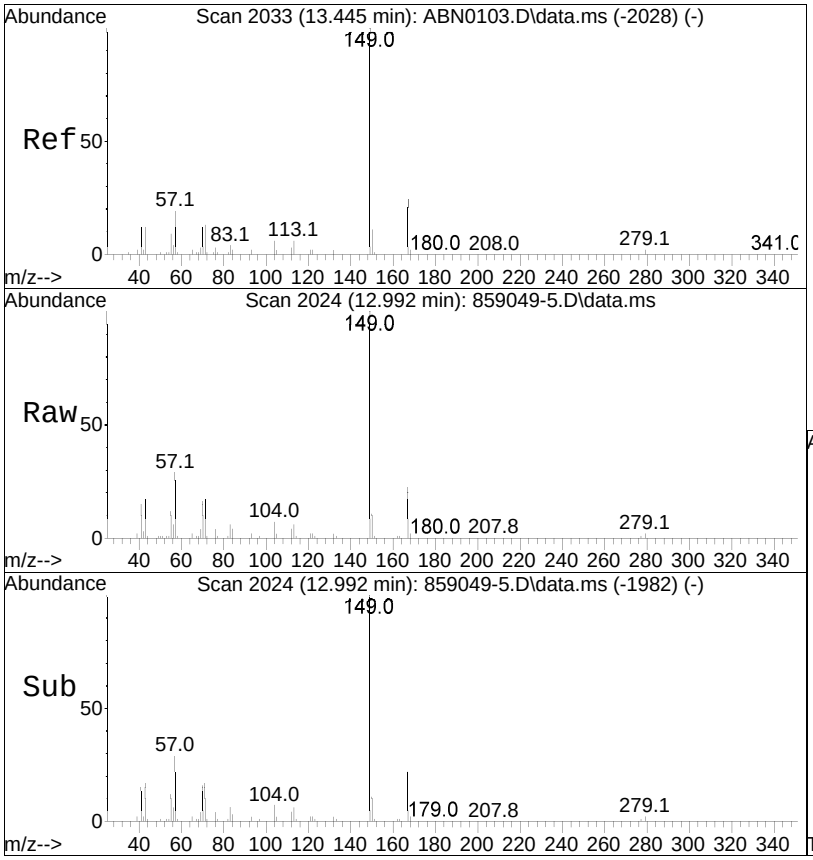


#105
3,3'-Dichlorobenzidine
Concen: 3.04 ug/ml
RT: 12.827 min Scan# 1996
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:252 Resp: 43076

Ion	Ratio	Lower	Upper
252	100		
126	19.8	14.5	21.7
254	62.6	51.2	76.8

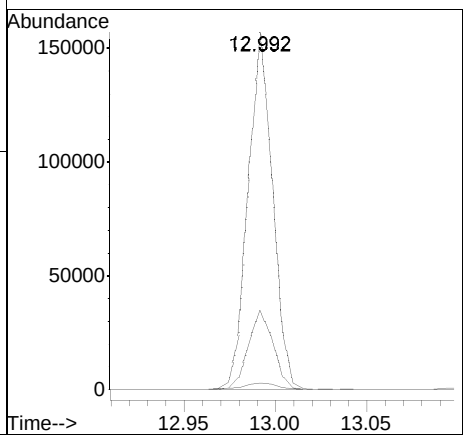


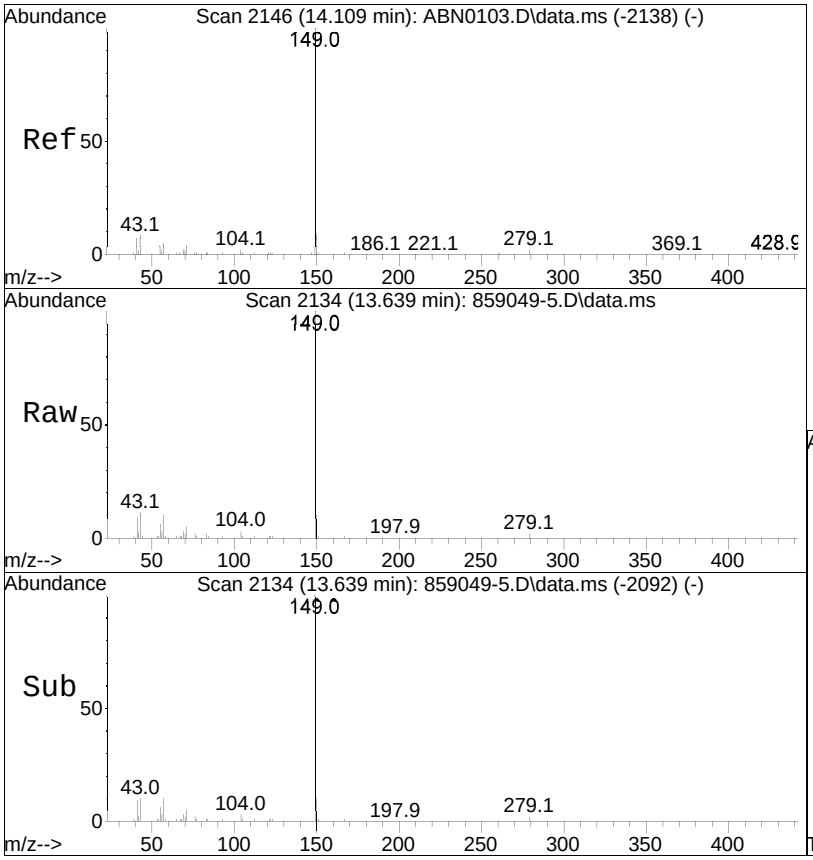


#107
Bis(2-ethylhexyl)phthalate
Concen: 5.42 ug/ml
RT: 12.992 min Scan# 2024
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:149 Resp: 144946

Ion	Ratio	Lower	Upper
149	100		
167	22.5	22.1	33.1
279	2.3	3.0	4.4#

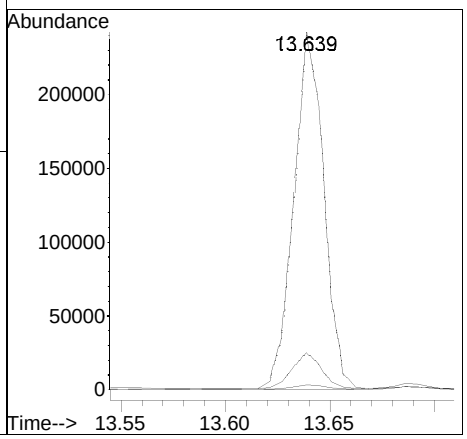




#108
Di-n-octylphthalate
Concen: 5.31 ug/ml
RT: 13.639 min Scan# 2134
Delta R.T. -0.000 min
Lab File: 859049-5.D
Acq: 5 Dec 2023 3:24 am

Tgt Ion:149 Resp: 239423

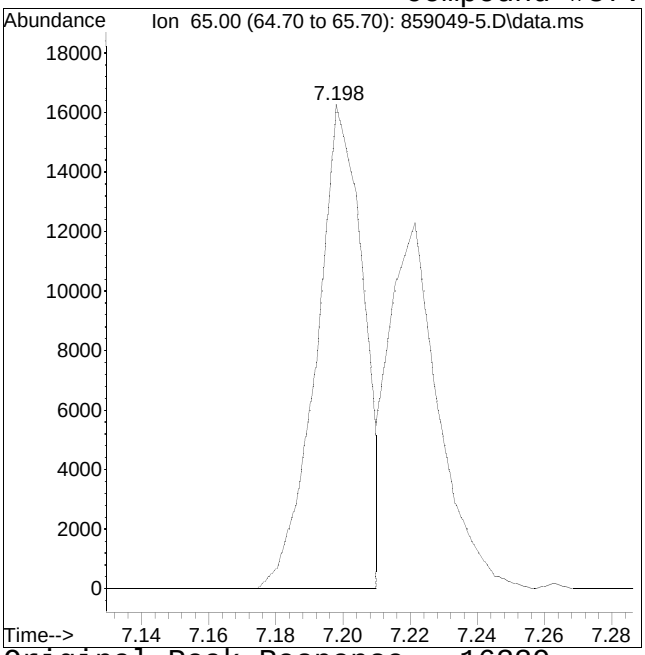
Ion	Ratio	Lower	Upper
149	100		
43	10.1	18.8	28.2#
167	1.3	1.3	1.9



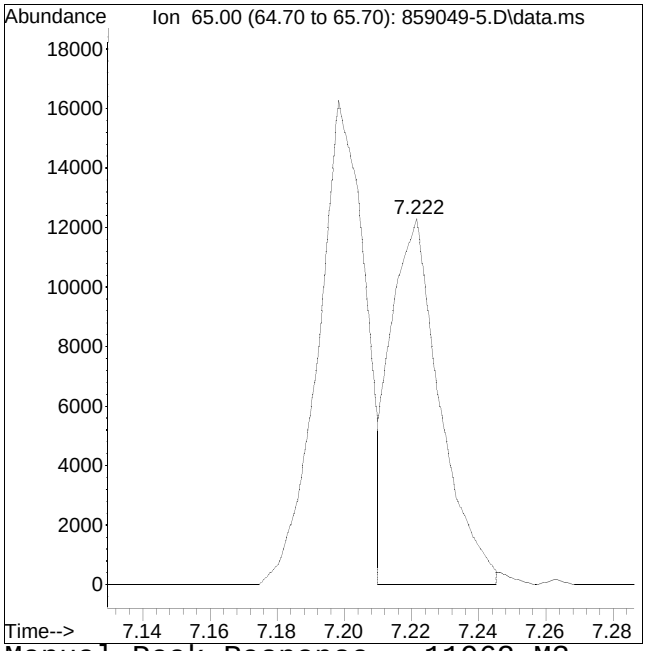
Manual Integration Report

Data Path : I:\8270\SV106\231204nalvi\QMethod : FS230902SV106.m
Data File : 859049-5.D Operator : SV106:sz
Date Inj'd : 12/5/2023 3:24 am Instrument : SV 106
Sample : WG1859049-5,32,,ASK Quant Date : 12/5/2023 3:44 am

Compound #37: 4-Chloroaniline



Original Peak Response = 16339



Manual Peak Response = 11962 M3

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

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 07 2023, 10:51 am

Work Group: WG1859049 for Department: 2 Organic Preparation

Created: 02-DEC-23 Due: Operator: DDG

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2370783-01	MW-1S	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-02	MW-2S	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-03	MW-3S	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-04	MW-4D	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-05	MW-5S	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-06	MW-6D	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-07	MW-7S	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-08	MW-8S	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-09	DUP	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-11	EB	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2371024-04	TW-2	C	NYTCL-8270-LVI	WATER	DONE	U	1207	1207	3D	Amber-A.25
L2371024-05	TW-4	C	NYTCL-8270-LVI	WATER	DONE	U	1207	1207	3D	Amber-A.25
L2371024-06	TW-5	C	NYTCL-8270-LVI	WATER	DONE	U	1207	1207	3D	Amber-A.25
L2371128-07	MW5S	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
L2371128-08	MW5I	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
L2371128-11	MW8	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
L2371128-12	MW9S	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
L2371128-13	MW9I	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
L2371128-14	MW10	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
L2371128-15	MW11	C	NYTCL-8270-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
WG1859049-1	Laboratory Method Bl	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1859049-2	Laboratory Control S	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1859049-3	LCS Duplicate	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1859049-4	Matrix Spike	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1859049-5	Matrix Spike Duplica	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1859049-6	Matrix Spike	S	NYTCL-8270-LVI	WATER	DONE	U				
WG1859049-7	Matrix Spike Duplica	S	NYTCL-8270-LVI	WATER	DONE	U				

Comments:

WG1859049-3	WG1859049-2
WG1859049-4	L2370783-04
WG1859049-5	L2370783-04
WG1859049-6	L2371128-08
WG1859049-7	L2371128-08

Analysis log File

Total Files Reported in Log : 36
Log Generated From Directory: I:\8270\SV106\230902lviical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	ABNLVI.M	Tune1	WG1823680	9/2/2023 11:50 am
2	ABNL10.D	ABNLVI.M	IL1,32,,ABNL50 Lot# 101	WG1823680	9/2/2023 12:13 pm
3	ABNL9.D	ABNLVI.M	IL2,32,,ABNL35 Lot# 101	WG1823680	9/2/2023 12:37 pm
4	ABNL8.D	ABNLVI.M	IL3,32,,ABNL15 Lot# 101	WG1823680	9/2/2023 1:01 pm
5	ABNL7.D	ABNLVI.M	IL4,32,,ABNL10 Lot# 101	WG1823680	9/2/2023 1:24 pm
6	ABNL6.D	ABNLVI.M	IL5,32,,ABNL5 Lot# 1016	WG1823680	9/2/2023 1:48 pm
7	ABNL5.D	ABNLVI.M	IL6,32,,ABNL3 Lot# 1016	WG1823680	9/2/2023 2:12 pm
8	ABNL4.D	ABNLVI.M	IL7,32,,ABNL2 Lot# 1016	WG1823680	9/2/2023 2:36 pm
9	ABNL3.D	ABNLVI.M	IL8,32,,ABNL1 Lot# 1016	WG1823680	9/2/2023 2:59 pm
10	ABNL2.D	ABNLVI.M	IL9,32,,ABNL0.4 Lot# 10	WG1823680	9/2/2023 3:23 pm
11	ABNL1.D	ABNLVI.M	IL10,32,,ABNL0.2 Lot# 1	WG1823680	9/2/2023 3:47 pm
12	AP9L10.D	ABNLVI.M	IL1,32,,AP9L50 Lot# 100	WG1823680	9/2/2023 4:10 pm
13	AP9L9.D	ABNLVI.M	IL2,32,,AP9L35 Lot# 100	WG1823680	9/2/2023 4:34 pm
14	AP9L8.D	ABNLVI.M	IL3,32,,AP9L15 Lot# 100	WG1823680	9/2/2023 4:58 pm
15	AP9L7.D	ABNLVI.M	IL4,32,,AP9L10 Lot# 100	WG1823680	9/2/2023 5:21 pm
16	AP9L6.D	ABNLVI.M	IL5,32,,AP9L5 Lot# 1008	WG1823680	9/2/2023 5:45 pm
17	AP9L5.D	ABNLVI.M	IL6,32,,AP9L3 Lot# 1008	WG1823680	9/2/2023 6:09 pm
18	AP9L4.D	ABNLVI.M	IL7,32,,AP9L2 Lot# 1008	WG1823680	9/2/2023 6:32 pm
19	AP9L3.D	ABNLVI.M	IL8,32,,AP9L1 Lot# 1008	WG1823680	9/2/2023 6:56 pm
20	AP9L2.D	ABNLVI.M	IL9,32,,AP9L0.4 Lot# 10	WG1823680	9/2/2023 7:20 pm
21	AP9L1.D	ABNLVI.M	IL10,32,,AP9L0.2 Lot# 1	WG1823680	9/2/2023 7:43 pm
22	ABNICV.D	ABNLVI.M	CQICV1,32,,ABNICV Lot#	WG1823680	9/2/2023 8:07 pm
23	AP9ICV.D	ABNLVI.M	CQICV2,32,,AP9ICV Lot#	WG1823680	9/2/2023 8:31 pm
24	Tune2.D	ABNLVI.M	Tune2	WG1823680	9/2/2023 8:54 pm
25	ADPL10.D	ABNLVI.M	IL1,32,,ADPL50 Lot# 100	WG1823680	9/2/2023 9:18 pm
26	ADPL9.D	ABNLVI.M	IL2,32,,ADPL35 Lot# 100	WG1823680	9/2/2023 9:42 pm
27	ADPL8.D	ABNLVI.M	IL3,32,,ADPL15 Lot# 100	WG1823680	9/2/2023 10:05 pm
28	ADPL7.D	ABNLVI.M	IL4,32,,ADPL10 Lot# 100	WG1823680	9/2/2023 10:29 pm
29	ADPL6.D	ABNLVI.M	IL5,32,,ADPL5 Lot# 1009	WG1823680	9/2/2023 10:53 pm
30	ADPL5.D	ABNLVI.M	IL6,32,,ADPL3 Lot# 1009	WG1823680	9/2/2023 11:17 pm
31	ADPL4.D	ABNLVI.M	IL7,32,,ADPL2 Lot# 1009	WG1823680	9/2/2023 11:40 pm
32	ADPL2.D	ABNLVI.M	IL9,32,,ADPL0.4 Lot# 10	WG1823680	9/3/2023 12:28 am
33	ADPL3.D	ABNLVI.M	IL8,32,,ADPL1 Lot# 1009	WG1823680	9/3/2023 12:04 am
34	ADPL1.D	ABNLVI.M	IL10,32,,ADPL0.2 Lot# 1	WG1823680	9/3/2023 12:52 am
35	ADPICV.D	ABNLVI.M	CQICV3,32,,ADPICV Lot#	WG1823680	9/3/2023 1:15 am
36	Blank1.D	ABNLVI.M	LVI Instrument Blank	WG1823680	9/3/2023 1:39 am

Analysis log File

Total Files Reported in Log : 40
Log Generated From Directory: I:\8270\SV107\231025ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	8270LVI.M	Tune	WG1845543,,	10/25/2023 11:57 pm
2	ABNL9.D	8270LVI.M	IL2,32,,ABNL35 Lot# 101	WG1845543,,	10/26/2023 12:48 am
3	ABNL10.D	8270LVI.M	IL1,32,,ABNL50 Lot# 101	WG1845543,,	10/26/2023 12:22 am
4	ABNL8.D	8270LVI.M	IL3,32,,ABNL15 Lot# 101	wg,,	10/26/2023 1:13 am
5	ABNL7.D	8270LVI.M	IL4,32,,ABNL10 Lot# 101	WG1845543,,	10/26/2023 1:39 am
6	ABNL6.D	8270LVI.M	IL5,32,,ABNL5 Lot# 1016	WG1845543,,	10/26/2023 2:04 am
7	ABNL5.D	8270LVI.M	IL6,32,,ABNL3 Lot# 1016	WG1845543,,	10/26/2023 2:30 am
8	ABNL4.D	8270LVI.M	IL7,32,,ABNL2 Lot# 1016	WG1845543,,	10/26/2023 2:56 am
9	ABNL3.D	8270LVI.M	IL8,32,,ABNL1 Lot# 1016	WG1845543,,	10/26/2023 3:21 am
10	ABNL2.D	8270LVI.M	IL9,32,,ABNL0.4 Lot# 10	WG1845543,,	10/26/2023 3:47 am
11	ABNL1.D	8270LVI.M	IL10,32,,ABNL0.2 Lot# 1	WG1845543,,	10/26/2023 4:13 am
12	AP9L10.D	8270LVI.M	IL1,32,,AP9L50 Lot# 102	WG1845543,,	10/26/2023 4:39 am
13	AP9L9.D	8270LVI.M	IL2,32,,AP9L35 Lot# 102	WG1845543,,	10/26/2023 5:04 am
14	AP9L8.D	8270LVI.M	IL3,32,,AP9L15 Lot# 102	WG1845543,,	10/26/2023 5:30 am
15	AP9L7.D	8270LVI.M	IL4,32,,AP9L10 Lot# 102	WG1845543,,	10/26/2023 5:56 am
16	AP9L6.D	8270LVI.M	IL5,32,,AP9L5 Lot# 1029	WG1845543,,	10/26/2023 6:21 am
17	AP9L5.D	8270LVI.M	IL6,32,,AP9L3 Lot# 1030	WG1845543,,	10/26/2023 6:47 am
18	AP9L4.D	8270LVI.M	IL7,32,,AP9L2 Lot# 1030	WG1845543,,	10/26/2023 7:13 am
19	AP9L3.D	8270LVI.M	IL8,32,,AP9L1 Lot# 1030	WG1845543,,	10/26/2023 7:39 am
20	AP9L2.D	8270LVI.M	IL9,32,,AP9L0.4 Lot# 10	WG1845543,,	10/26/2023 8:04 am
21	AP9L1.D	8270LVI.M	IL10,32,,AP9L0.2 Lot# 1	WG1845543,,	10/26/2023 8:30 am
22	ABNICV.D	8270LVI.M	CQICV1,32,,ABNICV Lot#		10/26/2023 8:56 am
23	AP9ICV.D	8270LVI.M	CQICV2,32,,AP9ICV Lot#	WG1845543,,	10/26/2023 9:21 am
24	Tune2.D	8270LVI.M	Tune	WG1845543,,	10/26/2023 9:47 am
25	ADPL10.D	8270LVI.M	IL1,32,,ADPL50 Lot# 102	WG1845543,,	10/26/2023 10:13 am
26	ADPL9.D	8270LVI.M	IL2,32,,ADPL35 Lot# 103	WG1845543,,	10/26/2023 10:38 am
27	ADPL8.D	8270LVI.M	IL3,32,,ADPL15 Lot# 103	WG1845543,,	10/26/2023 11:04 am
28	ADPL7.D	8270LVI.M	IL4,32,,ADPL10 Lot# 103	WG1845543,,	10/26/2023 11:29 am
29	ADPL6.D	8270LVI.M	IL5,32,,ADPL5 Lot# 1030	WG1845543,,	10/26/2023 11:55 am
30	ADPL5.D	8270LVI.M	IL6,32,,ADPL3 Lot# 1031	WG1845543,,	10/26/2023 12:21 pm
31	ADPL4.D	8270LVI.M	IL7,32,,ADPL2 Lot# 1031	WG1845543,,	10/26/2023 12:46 pm
32	ADPL3.D	8270LVI.M	IL8,32,,ADPL1 Lot# 1031	WG1845543,,	10/26/2023 1:12 pm
33	ADPL2.D	8270LVI.M	IL9,32,,ADPL0.4 Lot# 10	WG1845543,,	10/26/2023 1:38 pm
34	ADPL1.D	8270LVI.M	IL10,32,,ADPL0.2 Lot# 1	WG1845543,,	10/26/2023 2:03 pm
35	ADPICV.D	8270LVI.M	CQICV3,32,,ADPICV Lot#	WG1845543,,	10/26/2023 2:29 pm
36	InstBlnk.D	8270LVI.M	Instrument Blank		10/26/2023 2:55 pm
37	Tune3.D	8270LVI.M	Tune	WG1845543,,	10/27/2023 1:20 pm
38	ABNL8a.D	8270LVI.M	IL3,32,,ABNL15 Lot# 101	WG1845543,,	10/27/2023 1:53 pm
39	ABNICVa.D	8270LVI.M	CQICV1,32,,ABNICV Lot#	WG1845543,,	10/27/2023 2:19 pm
40	InstBlnka.D	8270LVI.M	Instrument Blank		10/27/2023 2:44 pm

Sequence Name: C:\msdchem\1\sequence\231204n.s
Comment:
Operator: SV107:
Data Path: C:\MSDCHEM\1\DATA\231204nlvi\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run	Sequence Barcode Options
(X) Full Method	(X) On Mismatch, Inject Anyway
( ) Reprocessing Only	( ) On Mismatch, Don't Inject
	( ) Barcode Disabled

Line			Sample Name/Misc Info
1)	Sample	141	DEG1204n 8270LVI wg-1,32,,SV107 Degdftp
2)	Sample	142	ABN1204n 8270LVI wg-3,32,,ABN LVI CCV Lot #101
3)	Sample	143	AP91204n 8270LVI wg-4,32,,AP9 LVI CCV Lot # 10
4)	Sample	144	ADP1204n 8270LVI wg-5,32,,ADP LVI CCV Lot # 10
5)	Sample	1	859049-1 8270LVI WG1859049-1,32,,ASK
6)	Sample	2	859049-2 8270LVI WG1859049-2,32,,ASK
7)	Sample	3	859049-3 8270LVI WG1859049-3,32,,ASK
8)	Sample	4	858983-1 8270LVI WG1858983-1,32,,ASK
9)	Sample	5	858983-2 8270LVI WG1858983-2,32,,ASK
10)	Sample	6	858983-3 8270LVI WG1858983-3,32,,ASK
11)	Sample	7	859206-1 8270LVI WG1859206-1,32,,ASK
12)	Sample	8	859206-2 8270LVI WG1859206-2,32,,ASK
13)	Sample	9	859206-3 8270LVI WG1859206-3,32,,ASK
14)	Sample	10	70026-04 8270LVI L2370026-04,32,,RV,ASK
15)	Sample	11	70402-03 8270LVI L2370402-03d,32,5,RV,ASK
16)	Sample	12	71040-01 8270LVI L2371040-01,32,,ASK
17)	Sample	13	71040-02 8270LVI L2371040-02,32,,ASK
18)	Sample	14	858983-4 8270LVI WG1858983-4,32,,ASK
19)	Sample	15	858983-5 8270LVI WG1858983-5,32,,ASK
20)	Sample	16	71040-03 8270LVI L2371040-03,32,,ASK
21)	Sample	17	71040-04 8270LVI L2371040-04,32,,ASK
22)	Sample	18	71040-05 8270LVI L2371040-05,32,,ASK
23)	Sample	19	71040-06 8270LVI L2371040-06,32,,ASK
24)	Sample	20	70482-05 8270LVI L2370482-05,32,,ASK
25)	Sample	21	71024-05 8270LVI L2371024-05,32,,R3D,ASK
26)	Sample	22	70405-02 8270LVI L2370405-02,32,,ASK
27)	Sample	23	71024-04 8270LVI L2371024-04,32,,R3D,ASK

Sequence Name: C:\msdchem\1\sequence\231204na.s
Comment:
Operator: SV106:
Data Path: C:\MSDCHEM\1\DATA\231204nalvi\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

Line			Sample Name/Misc Info
1)	Sample	141	wg-1,32,,SV106 Degdftpp
	Datafile		DEG1204na
	Method		ABNLVI
2)	Sample	142	wg-3,32,,ABN LVI CCV Lot # 10
	Datafile		ABN1204na
	Method		ABNLVI
3)	Sample	143	wg-4,32,,AP9 LVI CCV Lot # 10
	Datafile		AP91204na
	Method		ABNLVI
4)	Sample	144	wg-5,32,,ADP LVI CCV Lot # 10
	Datafile		ADP1204na
	Method		ABNLVI
5)	Sample	1	859086-1 ABNLVI WG1859086-1,32,,ASK
6)	Sample	2	859086-2 ABNLVI WG1859086-2,32,,ASK
7)	Sample	3	859086-3 ABNLVI WG1859086-3,32,,ASK
8)	Sample	4	70783-01 ABNLVI L2370783-01,32,,ASK
9)	Sample	5	70783-02 ABNLVI L2370783-02,32,,ASK
10)	Sample	6	70783-03 ABNLVI L2370783-03,32,,ASK
11)	Sample	7	859049-4 ABNLVI WG1859049-4,32,,ASK
12)	Sample	8	859049-5 ABNLVI WG1859049-5,32,,ASK
13)	Sample	9	70783-04 ABNLVI L2370783-04,32,,ASK
14)	Sample	10	70783-05 ABNLVI L2370783-05,32,,ASK
15)	Sample	11	70783-06 ABNLVI L2370783-06,32,,ASK
16)	Sample	12	70783-07 ABNLVI L2370783-07,32,,ASK
17)	Sample	13	70783-08 ABNLVI L2370783-08,32,,ASK
18)	Sample	14	70783-09 ABNLVI L2370783-09,32,,ASK
19)	Sample	15	70783-11 ABNLVI L2370783-11,32,,ASK
20)	Sample	16	70826-01 ABNLVI L2370826-01,32,,ASK
21)	Sample	17	70826-02 ABNLVI L2370826-02,32,,ASK
22)	Sample	18	70826-03 ABNLVI L2370826-03,32,,ASK
23)	Sample	19	70826-04 ABNLVI L2370826-04,32,,ASK
24)	Sample	20	70826-05 ABNLVI L2370826-05,32,,ASK
25)	Sample	21	70826-06 ABNLVI L2370826-06,32,,ASK
26)	Sample	22	70826-07 ABNLVI L2370826-07,32,,ASK
27)	Sample	23	71128-07 ABNLVI L2371128-07,32,,ASK
28)	Sample	24	859049-6 ABNLVI WG1859049-6,32,,ASK
29)	Sample	25	859049-7 ABNLVI WG1859049-7,32,,ASK
30)	Sample	26	71128-08 ABNLVI L2371128-08,32,,ASK
31)	Sample	27	71128-11 ABNLVI L2371128-11,32,,ASK

Analysis log File

Total Files Reported in Log : 17
Log Generated From Directory: I:\8270\SV107\231206lvi\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	DEG1206.D	8270LVI.M	wg1860349-6,32,,SV107 D	wg1860349,,ical20485	12/6/2023 6:38 am
2	ABN1206.D	8270LVI.M	wg1860349-3,32,,ABN LVI	wg1860349,,ical20485	12/6/2023 7:03 am
3	AP91206.D	8270LVI.M	wg1860349-4,32,,AP9 LVI	wg1860349,,ical20485	12/6/2023 7:29 am
4	ADP1206.D	8270LVI.M	wg1860349-5,32,,ADP LVI	wg1860349,,ical20485	12/6/2023 7:55 am
5	860252-1.D	8270LVI.M	WG1860252-1,32,,gmr	WG1860349,WG1860252,ical20485	12/6/2023 8:21 am
6	860252-2.D	8270LVI.M	WG1860252-2,32,,gmr	WG1860349,WG1860252,ical20485	12/6/2023 8:47 am
7	860252-3.D	8270LVI.M	WG1860252-3,32,,gmr	WG1860349,WG1860252,ical20485	12/6/2023 9:13 am
8	71559-01.D	8270LVI.M	L2371559-01,32,,R3A,gmr	WG1860349,WG1860252,ical20485	12/6/2023 9:39 am
9	860059-2.D	8270LVI.M	WG1860059-2,32,,gmr	WG1860349,WG1860059,ical20485	12/6/2023 10:04 am
10	860059-3.D	8270LVI.M	WG1860059-3,32,,gmr	WG1860349,WG1860059,ical20485	12/6/2023 10:31 am
11	860059-1.D	8270LVI.M	WG1860059-1,32,,gmr	WG1860349,WG1860059,ical20485	12/6/2023 10:57 am
12	860259-2.D	8270LVI.M	WG1860259-2,32,,HNY	WG1860349,WG1860259,ical20485	12/6/2023 11:23 an
13	860259-3.D	8270LVI.M	WG1860259-3,32,,HNY	WG1860349,WG1860259,ical20485	12/6/2023 11:49 an
14	860259-1.D	8270LVI.M	WG1860259-1,32,,HNY	WG1860349,WG1860259,ical20485	12/6/2023 12:15 pm
15	71540-18.D	8270LVI.M	L2371540-18,32,,R3A,HNY	WG1860349,WG1860259,ical20485	12/6/2023 12:41 p
16	1559-01.D	8270LVI.M	L2371559-01,32,,rv	WG1860349,WG1860252,ical20485	12/6/2023 1:07 pm
17	71038-05.D	8270LVI.M	L2371038-05,32,,gmr	WG1860349,WG1860059,ical20485	12/6/2023 1:34 pm

Printed: 12/06/23 Page: 1

 SeqLog 1.0 - (c) 2009 Abacus Database Applications

ORGANIC ELN REPORT

Workgroup: WG1859049

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EH486
Surrogate Type: ABN **Lot #:** 10333-u(05/22/24)
Spike Type: ABN **Lot #:** 10329T-033124,10334-i(05/22/
Spike Verify by: SAA
Lims Spikelot: 8270-LVI

Additional Reagents/Stds

H2SO4	A111123
Na2SO4	23F1561004
NaOH	10NNaOH112523

Conc.Method: Buchi
Solvent Type: DCM
Lot #: eh486

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2370783-01 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:13	Mark Gillespie	1	H
L2370783-02 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:12	Mark Gillespie	1	H
L2370783-03 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:14	Mark Gillespie	1	H
L2370783-04 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:13	Mark Gillespie	1	H
L2370783-05 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:13	Mark Gillespie	1	H
L2370783-06 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:14	Mark Gillespie	1	H
L2370783-07 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:14	Mark Gillespie	1	H

Reported: 07-DEC-23 10:51 AM

ORGANIC ELN REPORT

Workgroup: WG1859049

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2370783-08 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:15	Mark Gillespie	1	H
L2370783-09 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 12:34	Mark Gillespie	1	H
L2370783-11 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 12:34	Mark Gillespie	1	H
L2371024-04 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 09:31	Mark Gillespie	1	H
L2371024-05 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 09:31	Mark Gillespie	1	H
L2371024-06 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 09:32	Mark Gillespie	1	H
L2371128-07 WATER	12/02/23 20:33	Daniel Gyedu	275	<2,>12	1		12/03/23 11:13	Mark Gillespie	1	H
L2371128-08 WATER	12/02/23 20:33	Daniel Gyedu	275	<2,>12	1		12/03/23 09:31	Mark Gillespie	1	H
L2371128-11 WATER	12/02/23 20:33	Daniel Gyedu	275	<2,>12	1		12/03/23 12:34	Mark Gillespie	1	H
L2371128-12 WATER	12/02/23 20:33	Daniel Gyedu	275	<2,>12	1		12/03/23 11:13	Mark Gillespie	1	H

Reported: 07-DEC-23 10:51 AM

ORGANIC ELN REPORT

Workgroup: WG1859049

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2371128-13 WATER	12/02/23 20:33	Daniel Gyedu	275	<2,>12	1		12/03/23 11:13	Mark Gillespie	1	H
L2371128-14 WATER	12/02/23 20:33	Daniel Gyedu	275	<2,>12	1		12/03/23 09:31	Mark Gillespie	1	H
L2371128-15 WATER	12/02/23 20:33	Daniel Gyedu	275	<2,>12	1		12/03/23 11:14	Mark Gillespie	1	H
WG1859049-1 BLANK	12/02/23 19:56 **WG1859056**	Daniel Gyedu	275	<2,>12	1		12/03/23 09:30	Mark Gillespie	1	H
WG1859049-2 LCS	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1	1	12/03/23 09:30	Mark Gillespie	1	H
WG1859049-3 LCSD	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1	1	12/03/23 09:30	Mark Gillespie	1	H
WG1859049-4 MS	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1	1	12/03/23 09:30	Mark Gillespie	1	H
WG1859049-5 MSD	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1	1	12/03/23 09:30	Mark Gillespie	1	H
WG1859049-6 MS	12/02/23 20:33	Daniel Gyedu	275	<2,>12	1	1	12/03/23 09:30	Mark Gillespie	1	H
WG1859049-7 MSD	12/02/23 20:33	Daniel Gyedu	275	<2,>12	1	1	12/03/23 09:30	Mark Gillespie	1	H

Reported: 07-DEC-23 10:51 AM

Semivolatiles Data
by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary
Form 2
Semivolatiles

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIX

Lab Number: L2370783
Project Number: 20116
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-1S (L2370783-01)	70	61	91	71	72	71	0
MW-2S (L2370783-02)	83	91	153*	117	72	113	1
MW-3S (L2370783-03)	60	65	111	85	51	85	0
MW-4D (L2370783-04)	53	51	81	63	42	61	0
MW-5S (L2370783-05)	49	45	74	58	50	59	0
MW-6D (L2370783-06)	45	39	62	50	46	50	0
MW-7S (L2370783-07)	59	49	81	64	63	63	0
MW-8S (L2370783-08)	59	51	78	62	60	58	0
DUP (L2370783-09)	43	43	76	60	36	59	0
EB (L2370783-11)	51	53	88	69	47	71	0
WG1859056-1BLANK	52	51	89	76	103	58	0
WG1859056-2LCS	65	60	81	63	75	72	0
WG1859056-3LCSD	66	59	81	63	75	70	0
MW-4DMS	65	60	81	61	68	66	0
MW-4DMSD	93	85	116	85	85	81	0

QC LIMITS

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

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1859056-2 **Analysis Date** : 12/06/23 13:11	**File ID**	: 59056-2
LCSD Sample ID	: WG1859056-3 **Analysis Date** : 12/06/23 13:27	**File ID**	: 59056-3

	Laboratory Control Sample				Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R		True (ug/l)	Found (ug/l)	%R		RPD	Recovery Limits	RPD Limit
Acenaphthene	18	11	61		18	11	63		3	40-140	40
2-Chloronaphthalene	18	11	60		18	11	62		3	40-140	40
Fluoranthene	18	14	76		18	14	75		1	40-140	40
Hexachlorobutadiene	18	9.4	52		18	9.7	53		2	40-140	40
Naphthalene	18	11	60		18	11	62		3	40-140	40
Benzo(a)anthracene	18	13	72		18	14	75		4	40-140	40
Benzo(a)pyrene	18	13	73		18	13	73		0	40-140	40
Benzo(b)fluoranthene	18	14	79		18	14	80		1	40-140	40
Benzo(k)fluoranthene	18	13	72		18	13	71		1	40-140	40
Chrysene	18	12	67		18	12	64		5	40-140	40
Acenaphthylene	18	12	64		18	12	66		3	40-140	40
Anthracene	18	13	71		18	13	73		3	40-140	40
Benzo(ghi)perylene	18	13	74		18	14	77		4	40-140	40
Fluorene	18	12	64		18	12	65		2	40-140	40
Phenanthrene	18	12	66		18	12	68		3	40-140	40
Dibenzo(a,h)anthracene	18	15	81		18	15	84		4	40-140	40
Indeno(1,2,3-cd)pyrene	18	16	86		18	16	90		5	40-140	40
Pyrene	18	14	77		18	14	75		3	40-140	40
2-Methylnaphthalene	18	11	62		18	12	64		3	40-140	40
Pentachlorophenol	18	6.2	34	Q	18	6.1	33	Q	3	40-140	40
Hexachlorobenzene	18	11	60		18	11	62		3	40-140	40
Hexachloroethane	18	10	56		18	11	59		5	40-140	40

Matrix Spike Sample Summary
Form 3
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2370783-04	**Analysis Date**	: 12/07/23 19:53
Matrix Spike	: WG1859056-4	**MS Analysis Date**	: 12/07/23 20:09
Matrix Spike Dup	: WG1859056-5	**MSD Analysis Date**	: 12/07/23 20:25

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	ND	18.2	12	66	18.2	16	88	29	40-140	40
2-Chloronaphthalene	ND	18.2	11	61	18.2	15	83	31	40-140	40
Fluoranthene	ND	18.2	14	77	18.2	17	94	19	40-140	40
Hexachlorobutadiene	ND	18.2	9.3	51	18.2	13	72	33	40-140	40
Naphthalene	0.06JB	18.2	11	61	18.2	16	88	37	40-140	40
Benzo(a)anthracene	0.02J	18.2	14	77	18.2	18	99	25	40-140	40
Benzo(a)pyrene	ND	18.2	14	77	18.2	18	99	25	40-140	40
Benzo(b)fluoranthene	ND	18.2	15	83	18.2	20	110	29	40-140	40
Benzo(k)fluoranthene	ND	18.2	14	77	18.2	18	99	25	40-140	40
Chrysene	ND	18.2	13	72	18.2	17	94	27	40-140	40
Acenaphthylene	ND	18.2	11	61	18.2	16	88	37	40-140	40
Anthracene	ND	18.2	14	77	18.2	18	99	25	40-140	40
Benzo(ghi)perylene	ND	18.2	16	88	18.2	20	110	22	40-140	40
Fluorene	ND	18.2	12	66	18.2	16	88	29	40-140	40
Phenanthrene	ND	18.2	13	72	18.2	17	94	27	40-140	40
Dibenzo(a,h)anthracene	ND	18.2	17	94	18.2	21	120	21	40-140	40
Indeno(1,2,3-cd)pyrene	ND	18.2	18	99	18.2	23	130	24	40-140	40
Pyrene	ND	18.2	14	77	18.2	17	94	19	40-140	40
2-Methylnaphthalene	ND	18.2	11	61	18.2	16	88	37	40-140	40
Pentachlorophenol	ND	18.2	14	77	18.2	17	94	19	40-140	40
Hexachlorobenzene	ND	18.2	13	72	18.2	15	83	14	40-140	40
Hexachloroethane	ND	18.2	10	55	18.2	15	83	40	40-140	40

Method Blank Summary
Form 4
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1859056-1	**Lab File ID**	: 859056-1
Instrument ID	: SV128	**Extraction Date**	: 12/02/23
Matrix	: WATER	**Analysis Date**	: 12/04/23 19:49
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1859056-2LCS	WG1859056-2	12/06/23 13:11
WG1859056-3LCSD	WG1859056-3	12/06/23 13:27
MW-1S	L2370783-01	12/07/23 19:05
MW-2S	L2370783-02	12/07/23 19:21
MW-3S	L2370783-03	12/07/23 19:37
MW-4D	L2370783-04	12/07/23 19:53
MW-4DMS	WG1859056-4	12/07/23 20:09
MW-4DMSD	WG1859056-5	12/07/23 20:25
MW-5S	L2370783-05	12/07/23 20:41
MW-6D	L2370783-06	12/07/23 20:57
MW-7S	L2370783-07	12/07/23 21:13
MW-8S	L2370783-08	12/07/23 21:29
DUP	L2370783-09	12/07/23 21:45
EB	L2370783-11	12/07/23 22:00

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV128	**Analysis Date**	: 08/31/23 09:28
Tune Standard	: R1737186-12	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	49.9
68	Less than 2.0% of mass 69	0.8 (1.9)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	54.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	25.6
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than 24% of mass 442	17.3
442	Base Peak, or >50% of mass 198	86.4
443	15.0 - 24.0% of mass 442	16.9 (19.6)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10	R1737186-2	IL10	08/31/23 09:45
IL9	R1737186-10	IL9	08/31/23 10:01
IL8	R1737186-9	IL8	08/31/23 10:17
IL7	R1737186-8	IL7	08/31/23 10:34
IL6	R1737186-7	IL6	08/31/23 10:50
IL5	R1737186-6	IL5	08/31/23 11:06
IL4	R1737186-5	IL4	08/31/23 11:23
IL2	R1737186-3	IL2	08/31/23 11:56
IL1	R1737186-1	IL1	08/31/23 12:12

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV128	**Analysis Date**	: 09/05/23 08:49
Tune Standard	: R1737186-13	**Tune File ID**	: TUNEa_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	47.1
68	Less than 2.0% of mass 69	0.7 (1.7)1
69		100
70	Less than 2.0% of mass 69	0.2 (.6)1
127	10.0 - 80.0% of Base Peak	52.6
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	25.7
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than 24% of mass 442	17.8
442	Base Peak, or >50% of mass 198	89.2
443	15.0 - 24.0% of mass 442	17.2 (19.2)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL3a	R1737186-4	IL3A	09/05/23 09:24
ICV Quant Report	R1737186-11	ICVA	09/05/23 11:08

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV128	**Analysis Date**	: 12/04/23 09:34
Tune Standard	: WG1859432-1	**Tune File ID**	: deg1204_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	51.7
68	Less than 2.0% of mass 69	0.6 (1.2)1
69		100
70	Less than 2.0% of mass 69	0 (0)1
127	10.0 - 80.0% of Base Peak	49.1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	24.3
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than 24% of mass 442	17.8
442	Base Peak, or >50% of mass 198	73.6
443	15.0 - 24.0% of mass 442	15 (20.4)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1859432-4TFACTOR-B	WG1859432-4	DEG1204	12/04/23 09:34
WG1859432-5TFACTOR-P	WG1859432-5	DEG1204	12/04/23 09:34
WG1859432-3CCAL	WG1859432-3	CCV1204	12/04/23 09:57
WG1859056-1BLANK	WG1859056-1	859056-1	12/04/23 19:49

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV125	**Analysis Date**	: 10/26/23 10:06
Tune Standard	: R1757051-11	**Tune File ID**	: TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	50
68	Less than 2.0% of mass 69	0.1 (.2)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	59.2
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	25.1
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	18.3
442	Base Peak, or >50% of mass 198	74.9
443	15.0 - 24.0% of mass 442	15 (20.1)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
IL10	R1757051-2	IL10	10/26/23 13:22
IL9	R1757051-9	IL9	10/26/23 13:38
IL8	R1757051-8	IL8	10/26/23 13:55
IL7	R1757051-12	IL7	10/26/23 14:11
IL6	R1757051-7	IL6	10/26/23 14:27
IL5	R1757051-6	IL5	10/26/23 14:43
IL4	R1757051-5	IL4	10/26/23 14:59
IL3	R1757051-4	IL3	10/26/23 15:15
IL2	R1757051-3	IL2	10/26/23 15:31
IL1	R1757051-1	IL1	10/26/23 15:47
ICV Quant Report	R1757051-10	ICV	10/26/23 16:04

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV125	**Analysis Date**	: 12/06/23 06:58
Tune Standard	: WG1860343-1	**Tune File ID**	: deg1206_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	45.6
68	Less than 2.0% of mass 69	0.4 (1)1
69		100
70	Less than 2.0% of mass 69	0.3 (.6)1
127	10.0 - 80.0% of Base Peak	55.3
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7.3
275	10.0 - 60.0% of Base Peak	25.4
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	18.1
442	Base Peak, or >50% of mass 198	79.1
443	15.0 - 24.0% of mass 442	15 (19)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1860343-4TFACTOR-B	WG1860343-4	DEG1206	12/06/23 06:58
WG1860343-5TFACTOR-P	WG1860343-5	DEG1206	12/06/23 06:58
WG1860343-3CCAL	WG1860343-3	CCV1206	12/06/23 07:20
WG1859056-2LCS	WG1859056-2	59056-2	12/06/23 13:11
WG1859056-3LCSD	WG1859056-3	59056-3	12/06/23 13:27

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV125	**Analysis Date**	: 12/07/23 11:27
Tune Standard	: WG1861049-1	**Tune File ID**	: deg1207c_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	47.1
68	Less than 2.0% of mass 69	0.5 (1.3)1
69		100
70	Less than 2.0% of mass 69	0.1 (.3)1
127	10.0 - 80.0% of Base Peak	58.9
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.1
275	10.0 - 60.0% of Base Peak	24.8
365	Greater than 1.0% of mass 198	2.7
441	Present, but less than 24% of mass 442	16.4
442	Base Peak, or >50% of mass 198	76.3
443	15.0 - 24.0% of mass 442	13.9 (18.3)2

1-Value is % of mass 69 2-Value is % of mass 442

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1861049-4TFACTOR-B	WG1861049-4	DEG1207C	12/07/23 11:27
WG1861049-5TFACTOR-P	WG1861049-5	DEG1207C	12/07/23 11:27
WG1861049-3CCAL	WG1861049-3	CCV1207B	12/07/23 11:43
MW-1S	L2370783-01	70783-01	12/07/23 19:05
MW-2S	L2370783-02	70783-02	12/07/23 19:21
MW-3S	L2370783-03	70783-03	12/07/23 19:37
MW-4D	L2370783-04	70783-04	12/07/23 19:53
WG1859056-4MS	WG1859056-4	859056-4	12/07/23 20:09
WG1859056-5MSD	WG1859056-5	859056-5	12/07/23 20:25
MW-5S	L2370783-05	70783-05	12/07/23 20:41
MW-6D	L2370783-06	70783-06	12/07/23 20:57
MW-7S	L2370783-07	70783-07	12/07/23 21:13
MW-8S	L2370783-08	70783-08	12/07/23 21:29
DUP	L2370783-09	70783-09	12/07/23 21:45
EB	L2370783-11	70783-11	12/07/23 22:00

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV128	**Analysis Date**	: 12/04/23 09:57:00
Sample No	: WG1859432-3	**Lab File ID**	: CCV1204

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1859432-3	3594	2.08	10889	2.74	6309	3.72
Upper Limit	7188	2.58	21778	3.24	12618	4.22
Lower Limit	1797	1.58	5445	2.24	3155	3.22
Sample ID						
WG1859056-1 BLANK	7130	2.10	21330	2.76	11496	3.73

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV128	**Analysis Date**	: 12/04/23 09:57:00
Sample No	: WG1859432-3	**Lab File ID**	: CCV1204

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1859432-3	13841	4.56	13647	6.10	16742	7.23
Upper Limit	27682	5.06	27294	6.60	33484	7.73
Lower Limit	6921	4.06	6824	5.60	8371	6.73
Sample ID						
WG1859056-1 BLANK	23351	4.56	17689	6.10	18449	7.22

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV125	**Analysis Date**	: 12/06/23 07:20:00
Sample No	: WG1860343-3	**Lab File ID**	: CCV1206

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1860343-3	37043	1.97	139573	2.64	77260	3.62
Upper Limit	74086	2.47	279146	3.14	154520	4.12
Lower Limit	18522	1.47	69787	2.14	38630	3.12
Sample ID						
WG1859056-2 LCS	36268	1.97	140610	2.63	78631	3.61
WG1859056-3 LCSD	35170	1.97	135522	2.63	75556	3.61

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV125	**Analysis Date**	: 12/06/23 07:20:00
Sample No	: WG1860343-3	**Lab File ID**	: CCV1206

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1860343-3	163874	4.45	166022	5.97	202112	6.97
Upper Limit	327748	4.95	332044	6.47	404224	7.47
Lower Limit	81937	3.95	83011	5.47	101056	6.47
Sample ID						
WG1859056-2 LCS	166870	4.45	171876	5.95	210518	6.95
WG1859056-3 LCSD	157665	4.45	151312	5.95	185746	6.95

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV125	**Analysis Date**	: 12/07/23 11:43:00
Sample No	: WG1861049-3	**Lab File ID**	: CCV1207B

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1861049-3	35016	2.19	133973	2.85	74318	3.82
Upper Limit	70032	2.69	267946	3.35	148636	4.32
Lower Limit	17508	1.69	66987	2.35	37159	3.32
Sample ID						
MW-1S	38393	2.19	146308	2.85	79552	3.82
MW-2S	35882	2.19	135747	2.85	73768	3.82
MW-3S	36351	2.19	136522	2.85	72469	3.82
MW-4D	41635	2.19	158360	2.85	84989	3.82
MW-4D MS	44820	2.19	180062	2.85	89326	3.82
MW-4D MSD	39004	2.19	155322	2.85	79903	3.82
MW-5S	39858	2.19	152344	2.85	82794	3.82
MW-6D	46991	2.19	178320	2.85	96673	3.82
MW-7S	36310	2.19	138683	2.85	76145	3.82
MW-8S	41694	2.19	159214	2.85	87262	3.82
DUP	37192	2.19	142119	2.85	76448	3.82
EB	32279	2.19	120875	2.85	65079	3.82

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: SV125	**Analysis Date**	: 12/07/23 11:43:00
Sample No	: WG1861049-3	**Lab File ID**	: CCV1207B

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1861049-3	152800	4.65	132050	6.17	149607	7.31
Upper Limit	305600	5.15	264100	6.67	299214	7.81
Lower Limit	76400	4.15	66025	5.67	74804	6.81
Sample ID						
MW-1S	157966	4.65	149010	6.17	182842	7.31
MW-2S	143206	4.65	127590	6.17	156069	7.31
MW-3S	147829	4.65	134552	6.17	169897	7.31
MW-4D	164369	4.65	144489	6.17	182480	7.31
MW-4D MS	174608	4.65	152183	6.17	196518	7.31
MW-4D MSD	154274	4.65	125926	6.17	157406	7.31
MW-5S	163407	4.65	153405	6.17	193791	7.31
MW-6D	187070	4.65	183568	6.17	231545	7.31
MW-7S	151467	4.65	147600	6.17	187769	7.31
MW-8S	168973	4.65	157747	6.17	200136	7.31
DUP	147858	4.65	138305	6.17	174421	7.31
EB	132762	4.65	131850	6.17	162953	7.31

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

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

* Values outside of QC limits

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

EPA 8270E Low Level PAH (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1	0.035	ug/l	40-140	40	40-140	40	40			
2-Chloronaphthalene	91-58-7	0.2	0.035	ug/l	40-140	40	40-140	40	40			
Fluoranthene	206-44-0	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Hexachlorobutadiene	87-68-3	0.5	0.036	ug/l	40-140	40	40-140	40	40			
Naphthalene	91-20-3	0.1	0.043	ug/l	40-140	40	40-140	40	40			
Benzo(a)anthracene	56-55-3	0.1	0.018	ug/l	40-140	40	40-140	40	40			
Benzo(a)pyrene	50-32-8	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Benzo(b)fluoranthene	205-99-2	0.1	0.016	ug/l	40-140	40	40-140	40	40			
Benzo(k)fluoranthene	207-08-9	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Chrysene	218-01-9	0.1	0.038	ug/l	40-140	40	40-140	40	40			
Acenaphthylene	208-96-8	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Anthracene	120-12-7	0.1	0.035	ug/l	40-140	40	40-140	40	40			
Benzo(ghi)perylene	191-24-2	0.1	0.042	ug/l	40-140	40	40-140	40	40			
Fluorene	86-73-7	0.1	0.037	ug/l	40-140	40	40-140	40	40			
Phenanthrene	85-01-8	0.1	0.015	ug/l	40-140	40	40-140	40	40			
Dibenzo(a,h)anthracene	53-70-3	0.1	0.039	ug/l	40-140	40	40-140	40	40			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.04	ug/l	40-140	40	40-140	40	40			
Pyrene	129-00-0	0.1	0.04	ug/l	40-140	40	40-140	40	40			
1-Methylnaphthalene	90-12-0	0.1	0.041	ug/l	40-140	40	40-140	40	40			
2-Methylnaphthalene	91-57-6	0.1	0.045	ug/l	40-140	40	40-140	40	40			
Pentachlorophenol	87-86-5	0.8	0.22	ug/l	40-140	40	40-140	40	40			
Hexachlorobenzene	118-74-1	0.8	0.032	ug/l	40-140	40	40-140	40	40			
Hexachloroethane	67-72-1	0.8	0.03	ug/l	40-140	40	40-140	40	40			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

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

Date Created: 03/07/23
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File: PM14022-1
Page: 1

EPA 8270E Low Level PAH (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	6.68	1.4028	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	6.68	0.8684	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	6.68	0.4676	ug/kg	40-140	50	40-140	50	50			
Hexachlorobutadiene	87-68-3	6.68	0.9352	ug/kg	34-107	50	40-140	50	50			
Naphthalene	91-20-3	6.68	1.2024	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	6.68	0.6346	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	6.68	0.6012	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	6.68	0.501	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	6.68	0.835	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	6.68	0.5344	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	6.68	0.5678	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	6.68	0.668	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	6.68	0.8016	ug/kg	40-140	50	40-140	50	50			
Pyrene	129-00-0	6.68	0.4676	ug/kg	35-142	50	35-142	50	50			
1-Methylnaphthalene	90-12-0	6.68	1.0354	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	6.68	1.9038	ug/kg	40-140	50	40-140	50	50			
Pentachlorophenol	87-86-5	26.72	2.9392	ug/kg	17-109	50	17-109	50	50			
Hexachlorobenzene	118-74-1	6.68	0.7014	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	6.68	1.2358	ug/kg	29-106	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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

Semivolatile Sample Data

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 19:05
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 70783-01	**Analyst**	: DV
Sample Amount	: 275 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	0.04	0.10	0.01	J
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	0.03	0.10	0.02	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.09	0.10	0.05	JB
56-55-3	Benzo(a)anthracene	0.02	0.10	0.02	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	0.06	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.04	0.10	0.01	J
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	0.03	0.10	0.02	J
91-57-6	2-Methylnaphthalene	0.03	0.10	0.02	J
87-86-5	Pentachlorophenol	0.20	0.80	0.01	J
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 19:21
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 70783-02	**Analyst**	: DV
Sample Amount	: 275 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	0.03	0.10	0.02	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	0.02	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 19:37
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 70783-03	**Analyst**	: DV
Sample Amount	: 275 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	0.02	0.10	0.02	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.08	0.10	0.05	JB
56-55-3	Benzo(a)anthracene	0.03	0.10	0.02	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	0.02	0.10	0.01	J
207-08-9	Benzo(k)fluoranthene	0.01	0.10	0.01	J
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	0.03	0.10	0.01	J
120-12-7	Anthracene	0.02	0.10	0.01	J
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	0.02	0.10	0.01	J
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	0.02	0.10	0.02	J
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 19:53
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 70783-04	**Analyst**	: DV
Sample Amount	: 275 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.06	0.10	0.05	JB
56-55-3	Benzo(a)anthracene	0.02	0.10	0.02	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 20:41
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 70783-05	**Analyst**	: DV
Sample Amount	: 275 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	0.02	0.10	0.02	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 20:57
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 70783-06	**Analyst**	: DV
Sample Amount	: 275 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	0.02	0.10	0.02	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 21:13
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 70783-07	**Analyst**	: DV
Sample Amount	: 275 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	0.02	0.10	0.02	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 21:29
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 70783-08	**Analyst**	: DV
Sample Amount	: 275 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-09	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 21:45
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 70783-09	**Analyst**	: DV
Sample Amount	: 275 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.09	0.10	0.05	JB
56-55-3	Benzo(a)anthracene	0.02	0.10	0.02	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	0.03	0.10	0.02	J
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-11	**Date Collected**	: 11/29/23 08:45
Client ID	: EB	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 22:00
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 70783-11	**Analyst**	: DV
Sample Amount	: 275 ml	**Instrument ID**	: SV125
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	ND	0.10	0.05	U
56-55-3	Benzo(a)anthracene	0.03	0.10	0.02	J
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.01	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.01	U
218-01-9	Chrysene	ND	0.10	0.01	U
208-96-8	Acenaphthylene	0.02	0.10	0.01	J
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.01	U
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859056-1	**Date Collected**	: NA
Client ID	: WG1859056-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/04/23 19:49
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8270E-SIM	**Dilution Factor**	: 1
Lab File ID	: 859056-1	**Analyst**	: AH
Sample Amount	: 275 ml	**Instrument ID**	: SV128
Extraction Method	: EPA 3510C	**GC Column**	: RXI-5SilM
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
83-32-9	Acenaphthene	ND	0.10	0.01	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.02	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.05	U
91-20-3	Naphthalene	0.22	0.10	0.05	
56-55-3	Benzo(a)anthracene	0.04	0.10	0.02	J
50-32-8	Benzo(a)pyrene	0.02	0.10	0.02	J
205-99-2	Benzo(b)fluoranthene	0.03	0.10	0.01	J
207-08-9	Benzo(k)fluoranthene	0.01	0.10	0.01	J
218-01-9	Chrysene	0.02	0.10	0.01	J
208-96-8	Acenaphthylene	ND	0.10	0.01	U
120-12-7	Anthracene	ND	0.10	0.01	U
191-24-2	Benzo(ghi)perylene	0.02	0.10	0.01	J
86-73-7	Fluorene	ND	0.10	0.01	U
85-01-8	Phenanthrene	ND	0.10	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.01	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.01	U
129-00-0	Pyrene	ND	0.10	0.02	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.02	U
87-86-5	Pentachlorophenol	ND	0.80	0.01	U
118-74-1	Hexachlorobenzene	0.02	0.80	0.01	J
67-72-1	Hexachloroethane	ND	0.80	0.06	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-01.D
Acq On : 07 Dec 2023 07:05 pm
Operator : SV125:dv
Sample : L2370783-01,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 08 07:16:00 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.186	152	38393	4000.000	ng/ml	0.00
Standard Area 1 = 35016			Recovery = 109.64%			
9) Naphthalene-d8	2.850	136	146308	4000.000	ng/ml	0.00
Standard Area 1 = 133973			Recovery = 109.21%			
18) Acenaphthene-d10	3.818	164	79552	4000.000	ng/ml	0.00
Standard Area 1 = 74318			Recovery = 107.04%			
23) Phenanthrene-d10	4.650	188	157966	4000.000	ng/ml	0.00
Standard Area 1 = 152800			Recovery = 103.38%			
32) Chrysene-d12	6.167	240	149010	4000.000	ng/ml	0.00
Standard Area 1 = 132050			Recovery = 112.84%			
37) Perylene-d12	7.309	264	182842	4000.000	ng/ml	0.00
Standard Area 1 = 149607			Recovery = 122.21%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.589	112	34131	3504.862	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 70.10%			
4) Phenol-d6	1.996	99	34413	3054.642	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 61.09%			
8) Nitrobenzene-d5	2.466	82	19866	2268.881	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 90.76%			
14) 2-Fluorobiphenyl	3.445	172	49740	1775.219	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 71.01%			
22) 2,4,6-Tribromophenol	4.258	330	14887	3621.020	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 72.42%			
31) 4-Terphenyl-d14	5.557	244	53848	1782.919	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 71.32%			
Target Compounds						Qvalue
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	2.859	128	885	24.097	ng/ml#	91
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	3.241	142	167	7.084	ng/ml	89
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	3.837	153	271	10.498	ng/ml	87
21) Fluorene	4.124	166	272	9.990	ng/ml	87
25) Hexachlorobenzene	0.000		0	N.D.		
26) Pentachlorophenol	4.547	266	133	55.413	ng/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-01.D
Acq On : 07 Dec 2023 07:05 pm
Operator : SV125:dv
Sample : L2370783-01,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 08 07:16:00 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	4.662	178	229M6	5.811	ng/ml	
28) Anthracene	4.691	178	602	16.319	ng/ml#	76
29) Fluoranthene	5.333	202	371	8.561	ng/ml#	87
30) Pyrene	5.461	202	400	8.810	ng/ml#	84
33) Benzo[a]anthracene	6.167	228	521M6	5.819	ng/ml	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.		
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

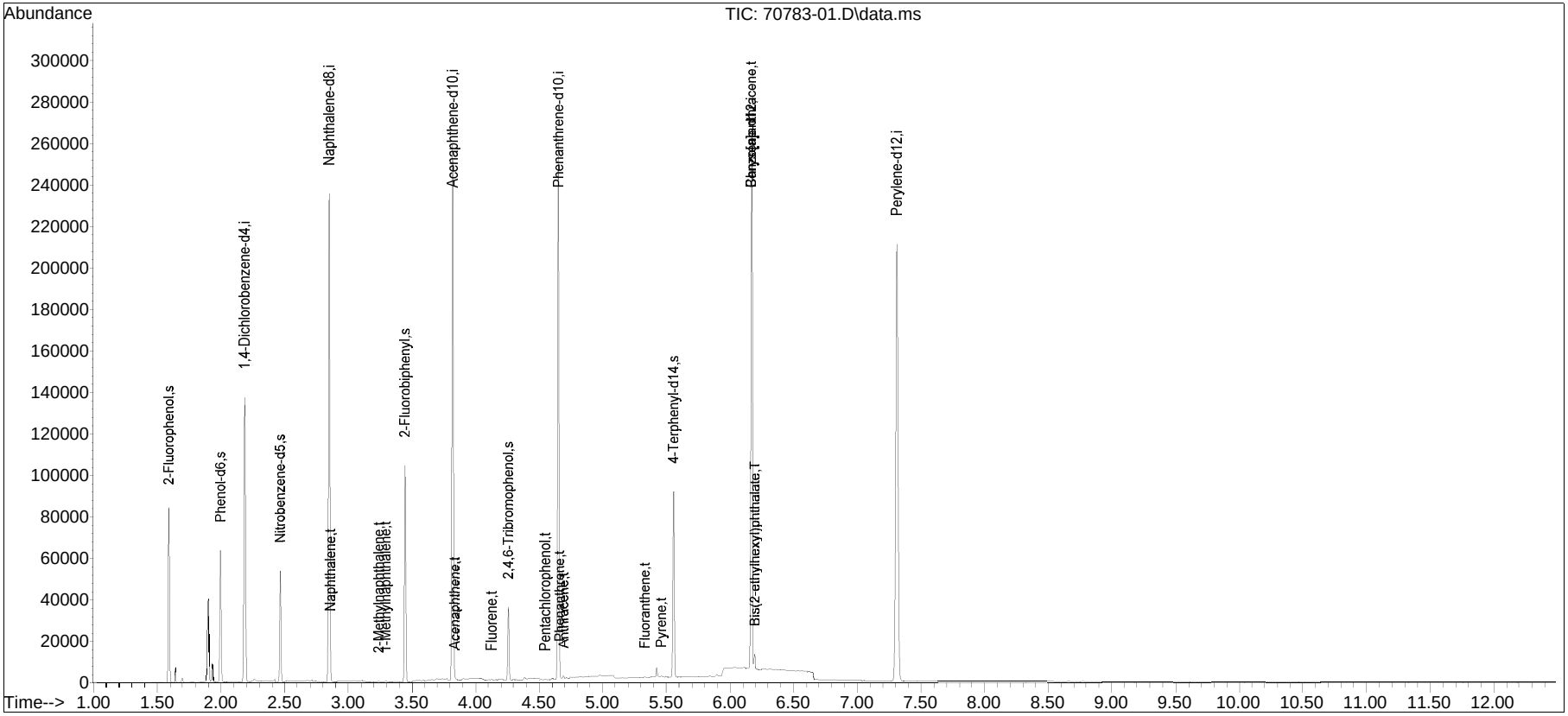
(#) = qualifier out of range (m) = manual integration (+) = signals summed

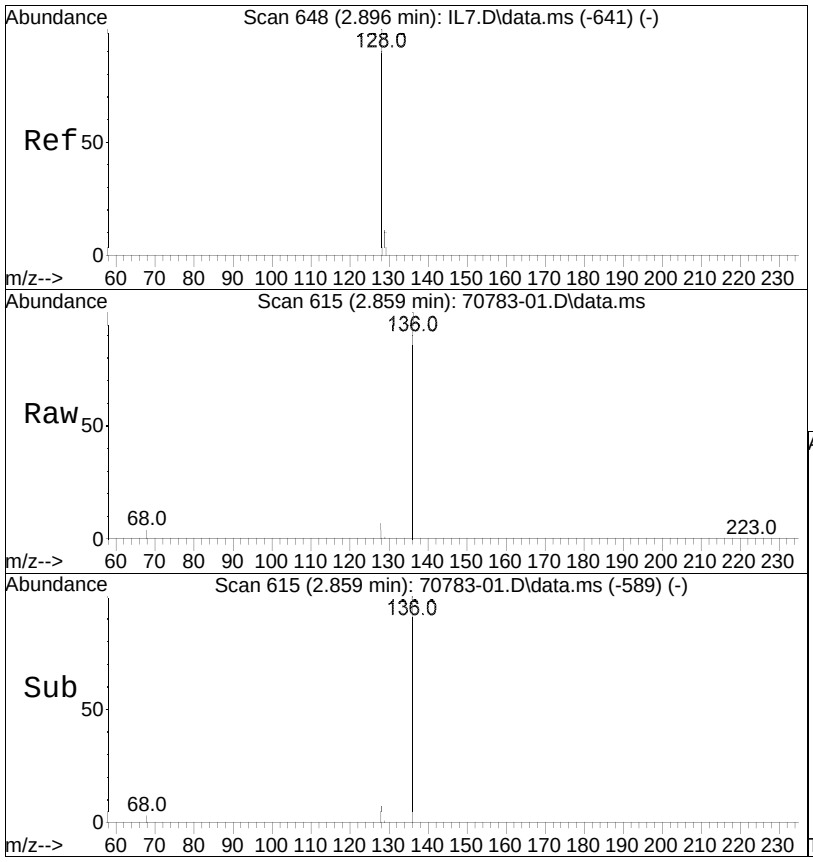
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-01.D
Acq On : 07 Dec 2023 07:05 pm
Operator : SV125:dv
Sample : L2370783-01,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 08 07:16:00 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedI\ccv1207b.D•

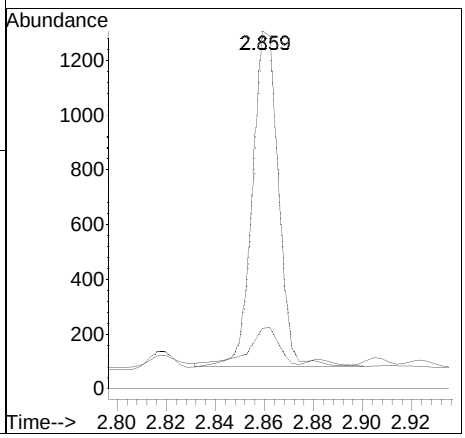


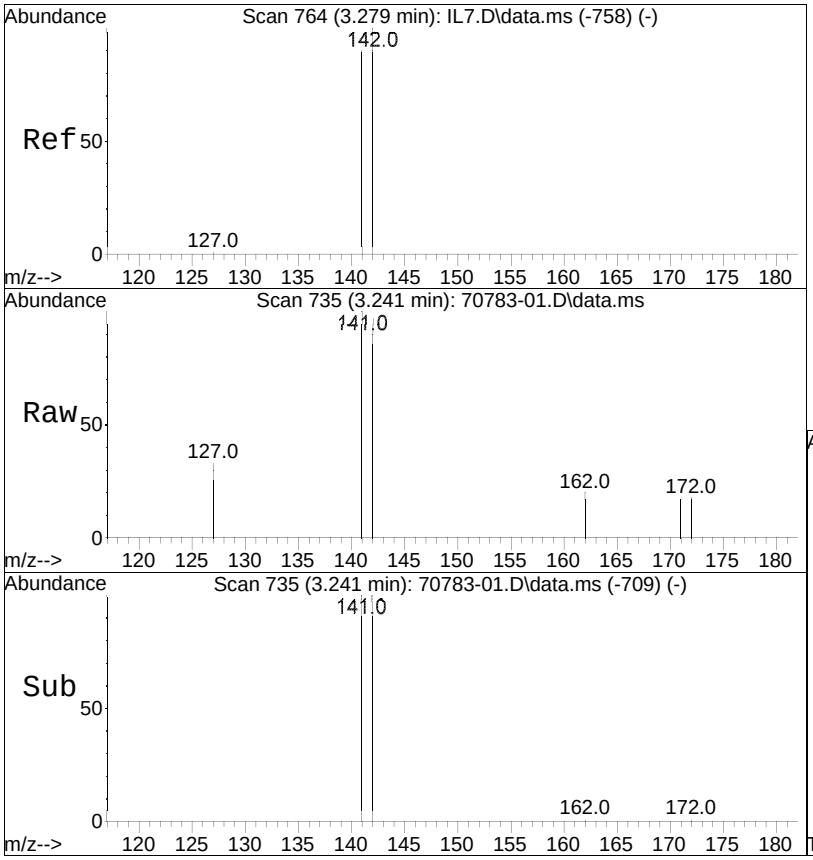


#10
Naphthalene
Concen: 24.10 ng/ml
RT: 2.859 min Scan# 615
Delta R.T. -0.000 min
Lab File: 70783-01.D
Acq: 07 Dec 2023 07:05 pm

Tgt Ion:128 Resp: 885

Ion	Ratio	Lower	Upper
128	100		
129	14.4	8.8	13.2#
127	0.0	0.0	0.0

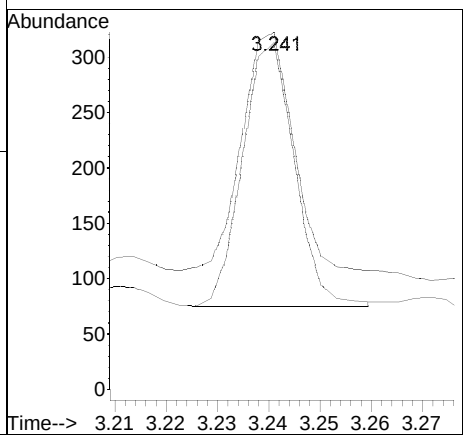


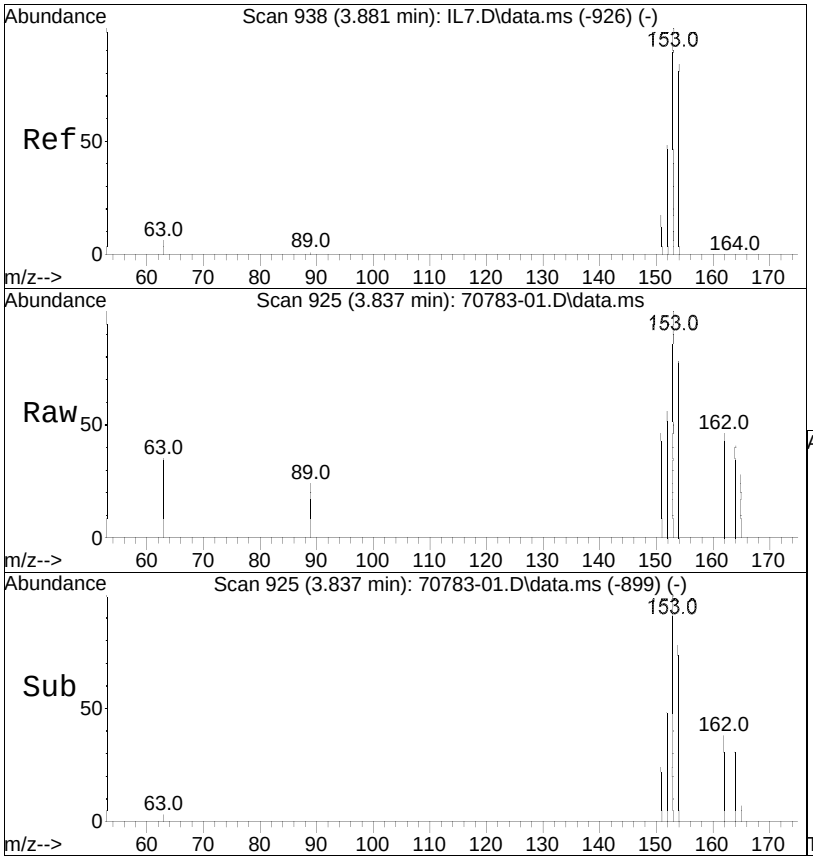


#12
2-Methylnaphthalene
Concen: 7.08 ng/ml
RT: 3.241 min Scan# 735
Delta R.T. -0.000 min
Lab File: 70783-01.D
Acq: 07 Dec 2023 07:05 pm

Tgt Ion:142 Resp: 167

Ion	Ratio	Lower	Upper
142	100		
141	102.4	73.6	110.4

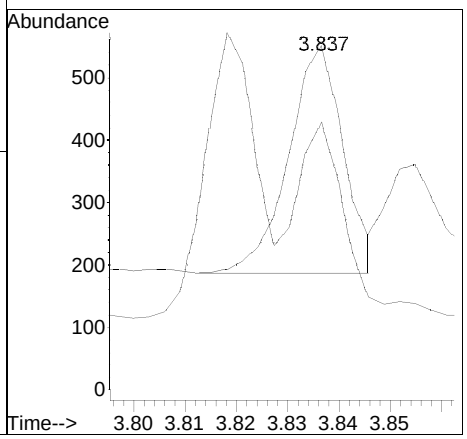


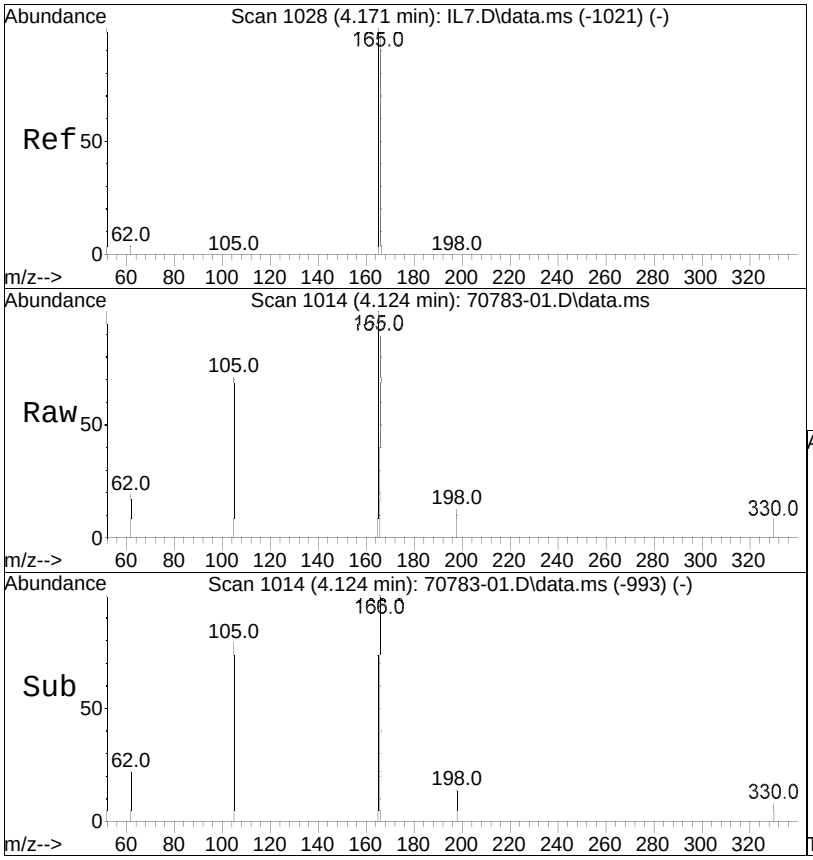


#19
Acenaphthene
Concen: 10.50 ng/ml
RT: 3.837 min Scan# 925
Delta R.T. -0.000 min
Lab File: 70783-01.D
Acq: 07 Dec 2023 07:05 pm

Tgt Ion:153 Resp: 271

Ion	Ratio	Lower	Upper
153	100		
154	76.8	70.8	106.2

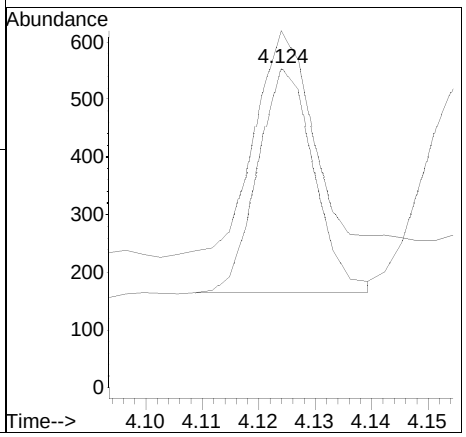


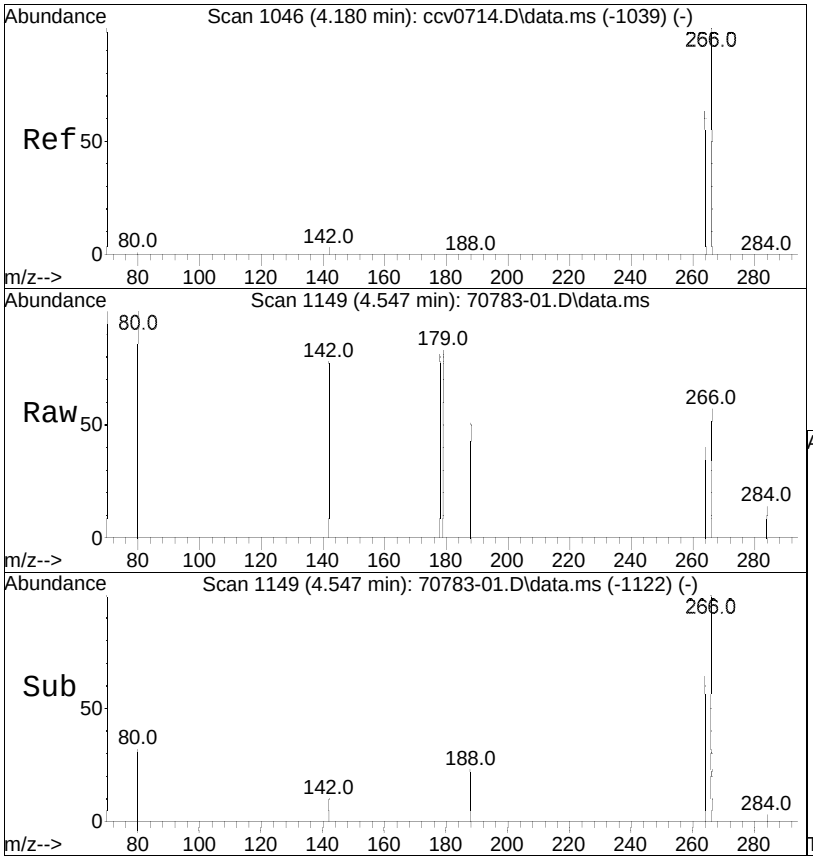


#21
Fluorene
Concen: 9.99 ng/ml
RT: 4.124 min Scan# 1014
Delta R.T. -0.000 min
Lab File: 70783-01.D
Acq: 07 Dec 2023 07:05 pm

Tgt Ion:166 Resp: 272

Ion	Ratio	Lower	Upper
166	100		
165	114.3	81.0	121.4

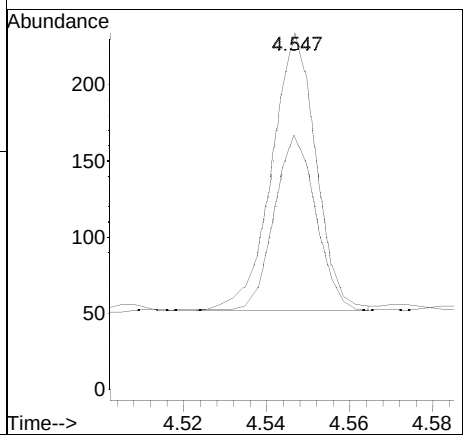


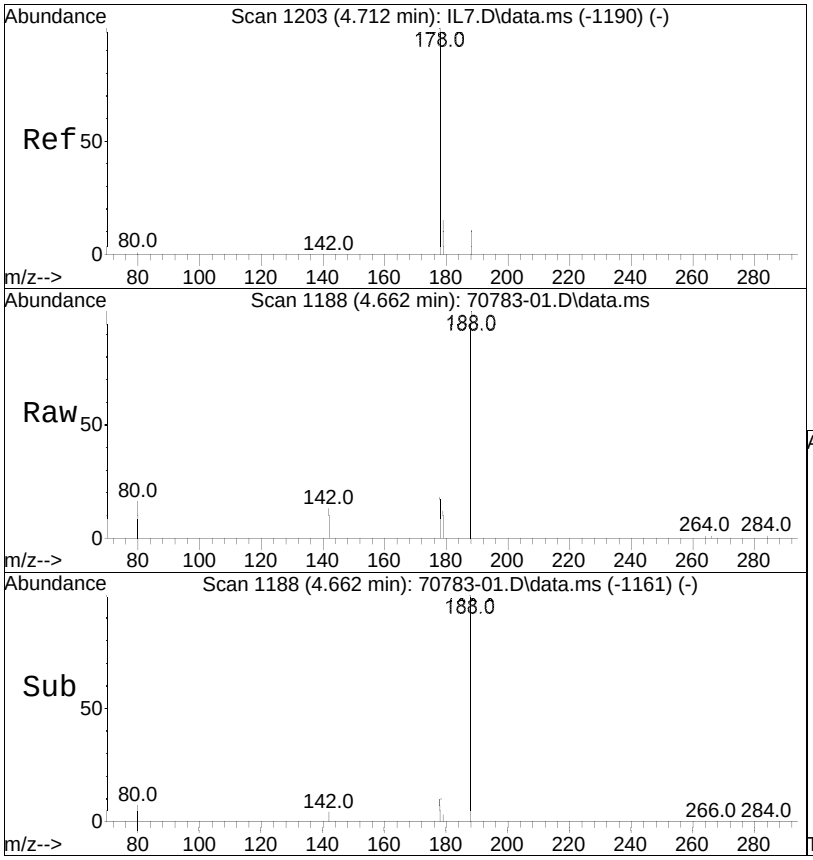


#26
Pentachlorophenol
Concen: 55.41 ng/ml
RT: 4.547 min Scan# 1149
Delta R.T. -0.000 min
Lab File: 70783-01.D
Acq: 07 Dec 2023 07:05 pm

Tgt Ion:266 Resp: 133

Ion	Ratio	Lower	Upper
266	100		
264	59.4	50.9	76.3

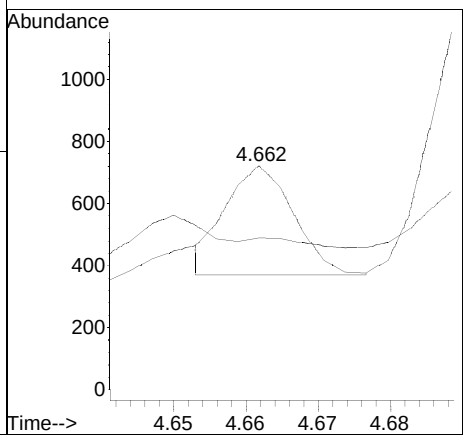


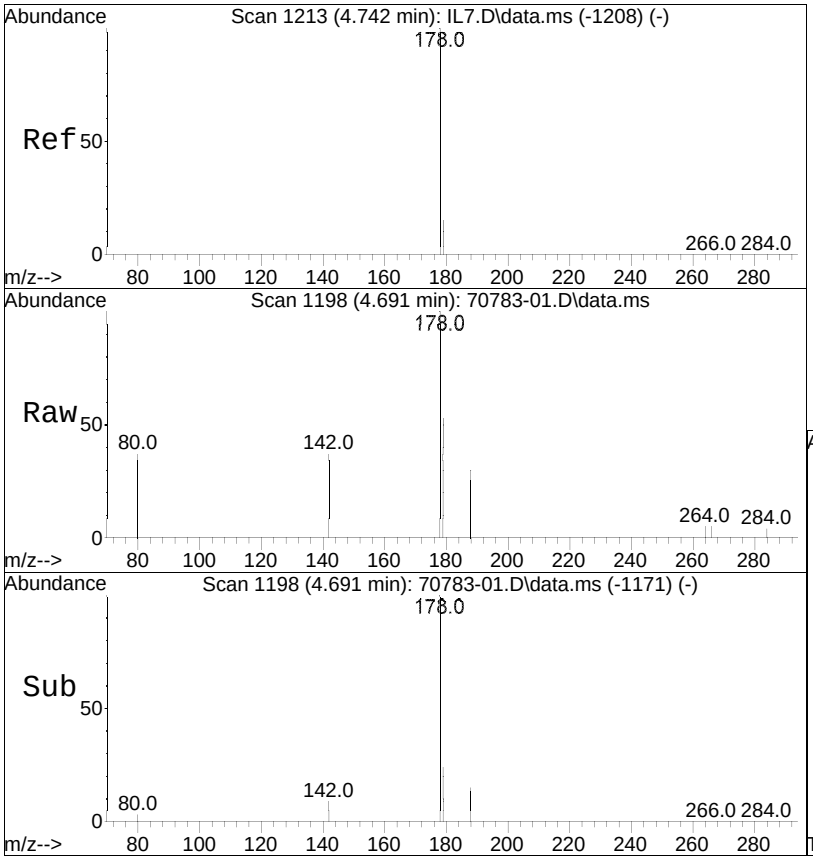


#27
Phenanthrene
Concen: 5.81 ng/ml M6
RT: 4.662 min Scan# 1188
Delta R.T. -0.000 min
Lab File: 70783-01.D
Acq: 07 Dec 2023 07:05 pm

Tgt Ion:178 Resp: 229

Ion	Ratio	Lower	Upper
178	100		
179	12.2	12.3	18.5#

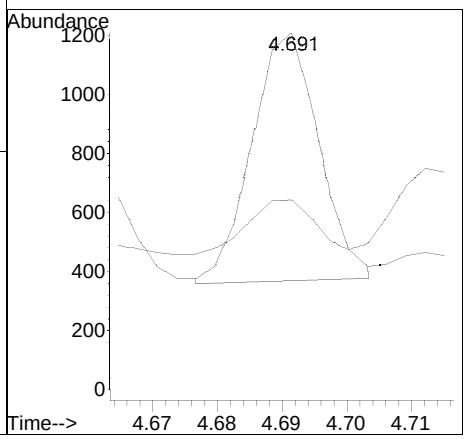


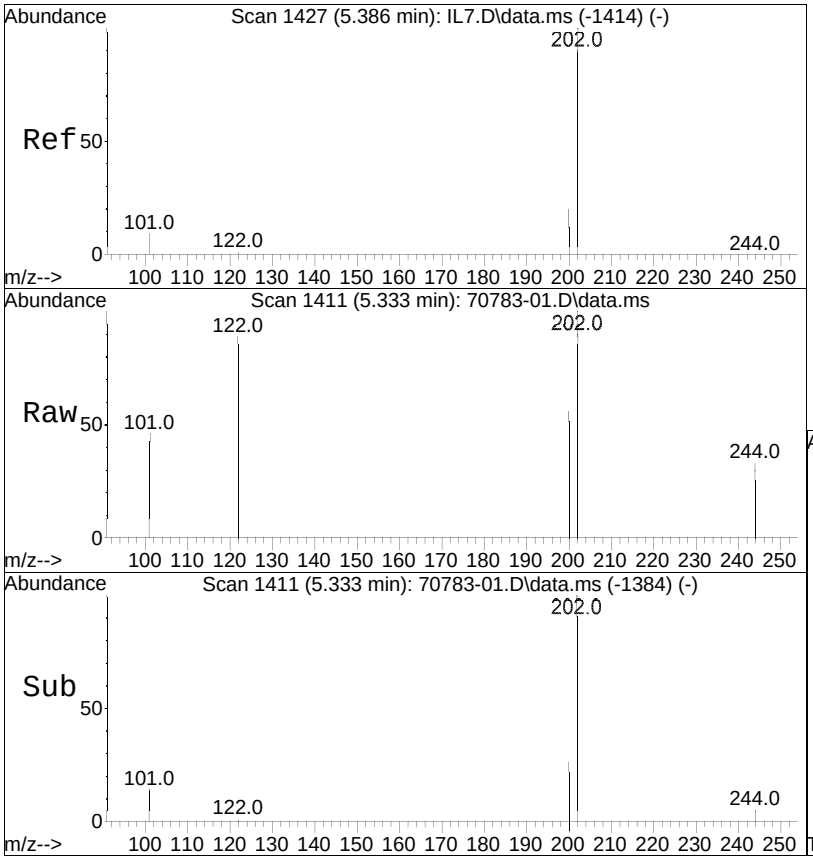


#28
Anthracene
Concen: 16.32 ng/ml
RT: 4.691 min Scan# 1198
Delta R.T. -0.000 min
Lab File: 70783-01.D
Acq: 07 Dec 2023 07:05 pm

Tgt Ion:178 Resp: 602

Ion	Ratio	Lower	Upper
178	100		
179	25.2	12.2	18.4#

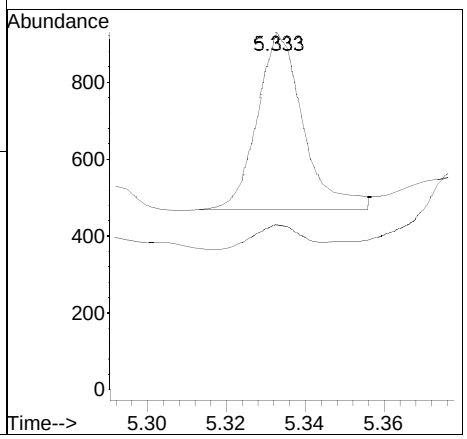


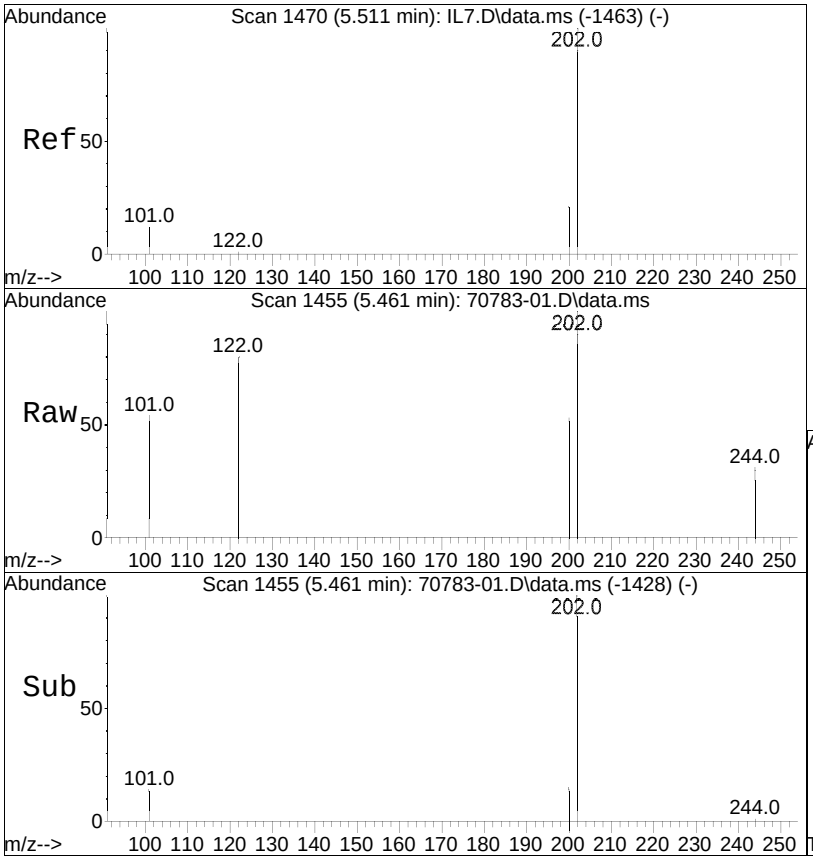


#29
Fluoranthene
Concen: 8.56 ng/ml
RT: 5.333 min Scan# 1411
Delta R.T. -0.000 min
Lab File: 70783-01.D
Acq: 07 Dec 2023 07:05 pm

Tgt Ion:202 Resp: 371

Ion	Ratio	Lower	Upper
202	100		
101	14.6	7.8	11.8#

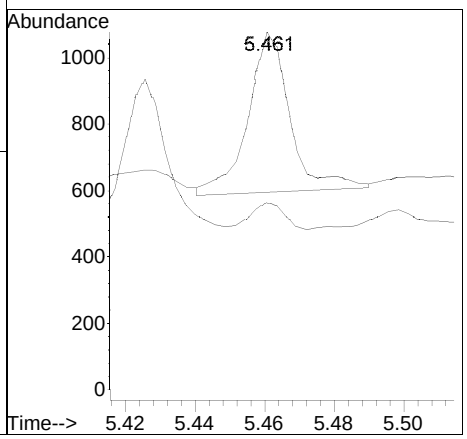


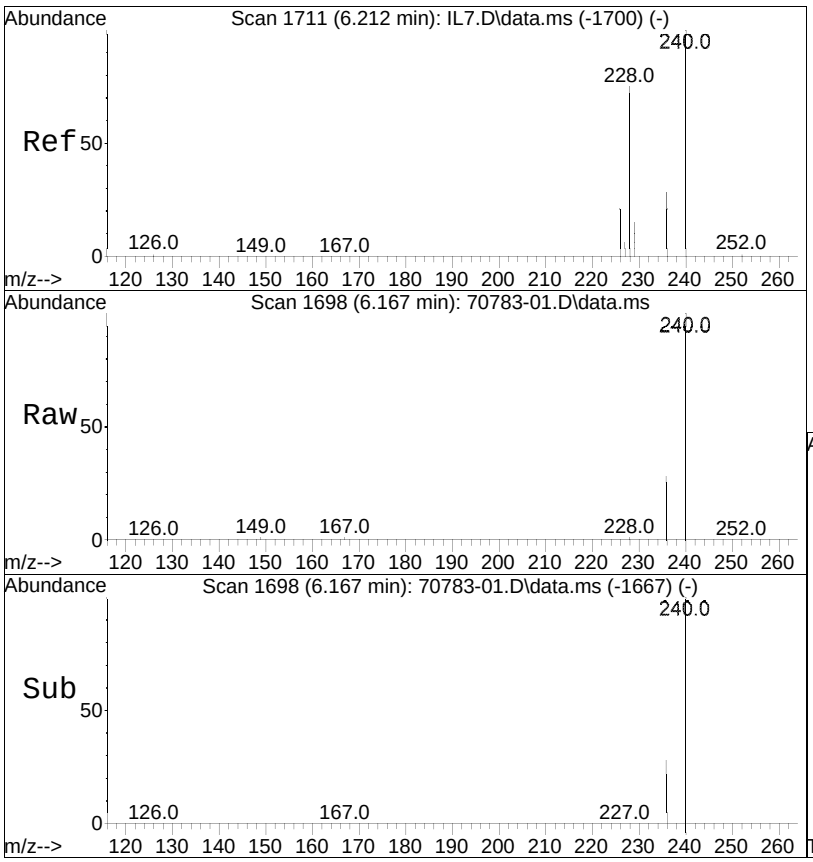


#30
Pyrene
Concen: 8.81 ng/ml
RT: 5.461 min Scan# 1455
Delta R.T. -0.000 min
Lab File: 70783-01.D
Acq: 07 Dec 2023 07:05 pm

Tgt Ion:202 Resp: 400

Ion	Ratio	Lower	Upper
202	100		
200	13.8	17.0	25.4#

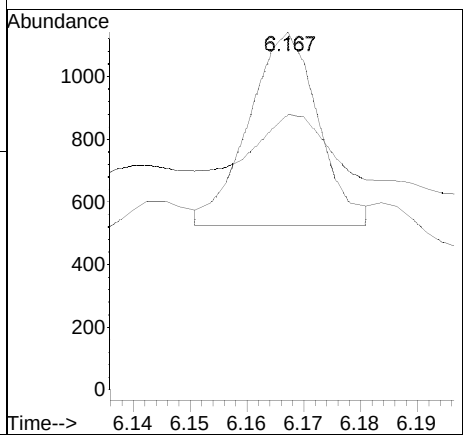




#33
Benzo[a]anthracene
Concen: 5.82 ng/ml M6
RT: 6.167 min Scan# 1698
Delta R.T. 0.005 min
Lab File: 70783-01.D
Acq: 07 Dec 2023 07:05 pm

Tgt Ion:228 Resp: 521

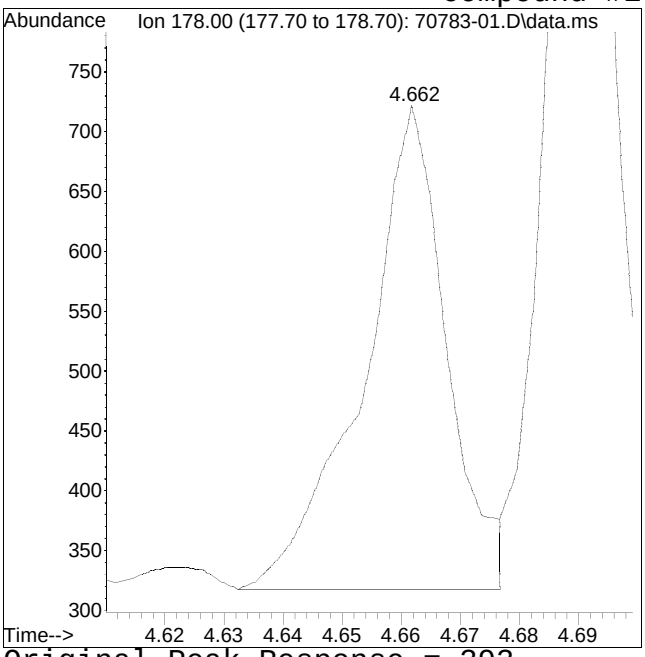
Ion	Ratio	Lower	Upper
228	100		
229	34.7	15.6	23.4#



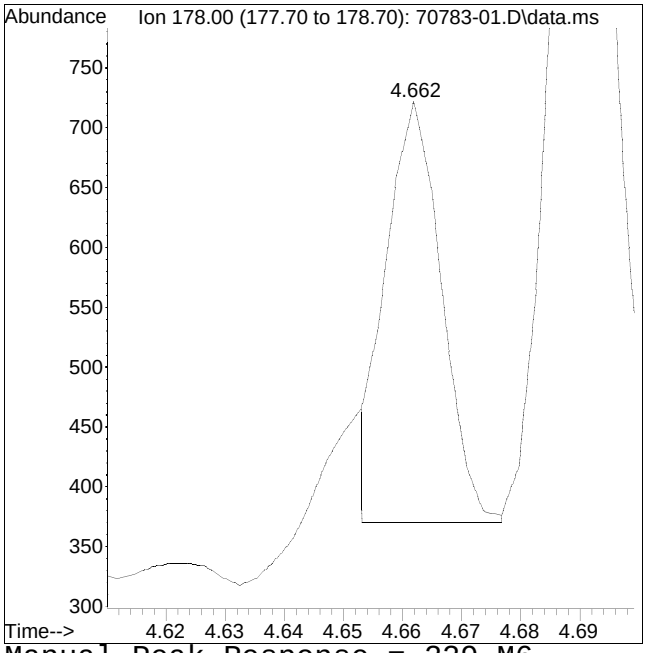
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-01.D Operator : SV125:dv
Date Inj'd : 12/7/2023 7:05 pm Instrument : SV125
Sample : L2370783-01,32,,ah Quant Date : 12/7/2023 7:28 pm

Compound #27: Phenanthrene



Original Peak Response = 393



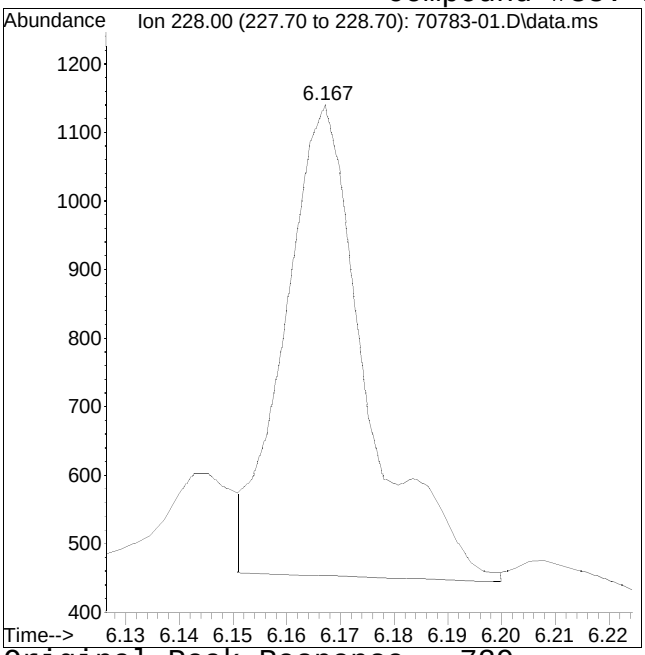
Manual Peak Response = 229 M6

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

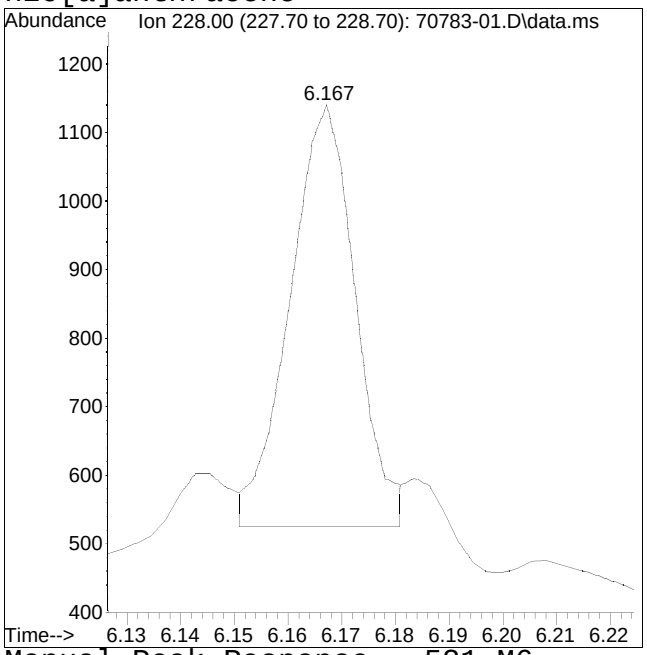
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-01.D Operator : SV125:dv
Date Inj'd : 12/7/2023 7:05 pm Instrument : SV125
Sample : L2370783-01,32,,ah Quant Date : 12/7/2023 7:28 pm

Compound #33: Benzo[a]anthracene



Original Peak Response = 729



Manual Peak Response = 521 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-02.D
Acq On : 07 Dec 2023 07:21 pm
Operator : SV125:dv
Sample : L2370783-02,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 08 07:17:06 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.187	152	35882	4000.000	ng/ml	0.00
Standard Area 1 = 35016			Recovery = 102.47%			
9) Naphthalene-d8	2.849	136	135747	4000.000	ng/ml	0.00
Standard Area 1 = 133973			Recovery = 101.32%			
18) Acenaphthene-d10	3.820	164	73768	4000.000	ng/ml	0.00
Standard Area 1 = 74318			Recovery = 99.26%			
23) Phenanthrene-d10	4.649	188	143206	4000.000	ng/ml	0.00
Standard Area 1 = 152800			Recovery = 93.72%			
32) Chrysene-d12	6.167	240	127590	4000.000	ng/ml	0.00
Standard Area 1 = 132050			Recovery = 96.62%			
37) Perylene-d12	7.308	264	156069	4000.000	ng/ml	0.00
Standard Area 1 = 149607			Recovery = 104.32%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.592	112	37675	4139.525	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 82.79%			
4) Phenol-d6	1.997	99	48082	4566.629	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 91.33%			
8) Nitrobenzene-d5	2.468	82	31290	3823.686	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 152.95%#			
14) 2-Fluorobiphenyl	3.444	172	76128	2928.386	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 117.14%			
22) 2,4,6-Tribromophenol	4.260	330	13660	3584.627	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 71.69%			
31) 4-Terphenyl-d14	5.556	244	77178	2818.759	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 112.75%			
Target Compounds						Qvalue
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	2.861	128	353	10.360	ng/ml#	92
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	3.240	142	109	4.983	ng/ml	100
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.		
26) Pentachlorophenol	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-02.D
Acq On : 07 Dec 2023 07:21 pm
Operator : SV125:dv
Sample : L2370783-02,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 08 07:17:06 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	4.661	178	164M6	4.590	ng/ml	
28) Anthracene	4.691	178	150M6	4.485	ng/ml	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	6.167	228	523M6	7.765	ng/ml	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

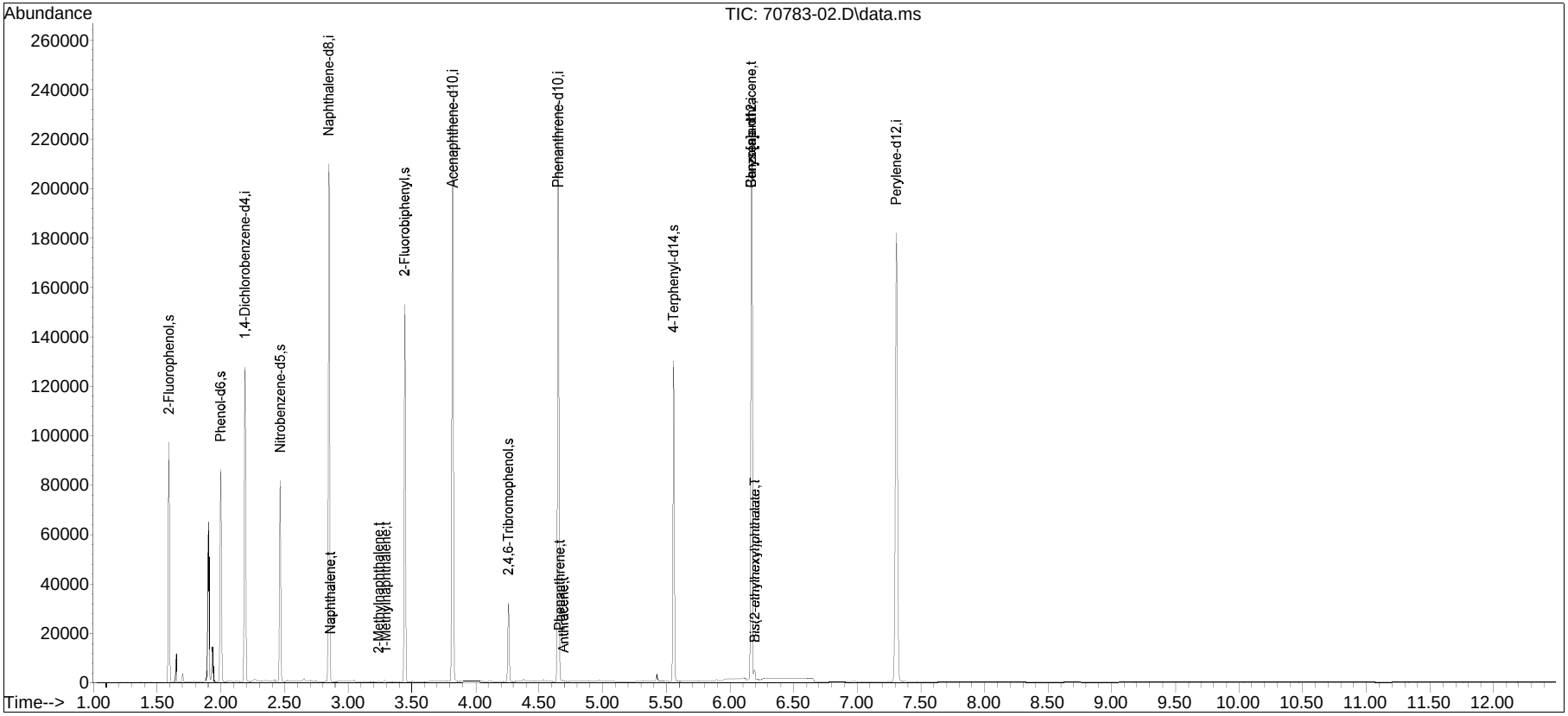
(#) = qualifier out of range (m) = manual integration (+) = signals summed

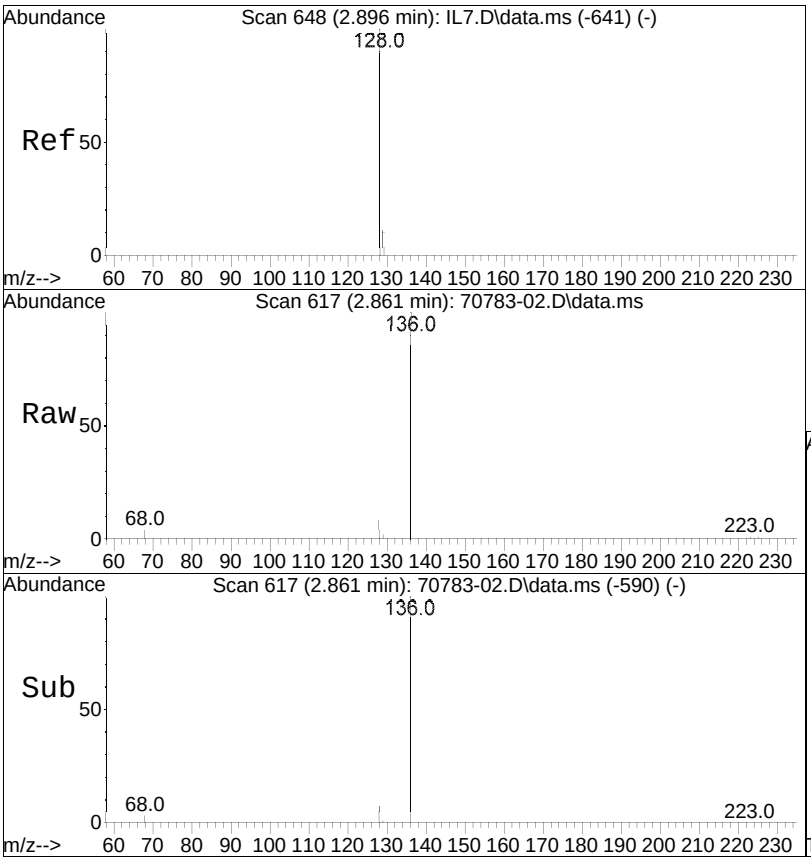
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-02.D
Acq On : 07 Dec 2023 07:21 pm
Operator : SV125:dv
Sample : L2370783-02,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 08 07:17:06 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedI\ccv1207b.D•

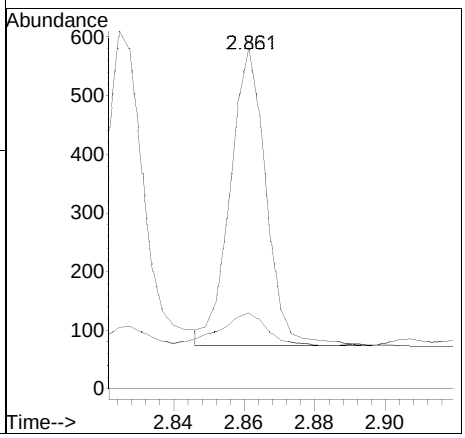


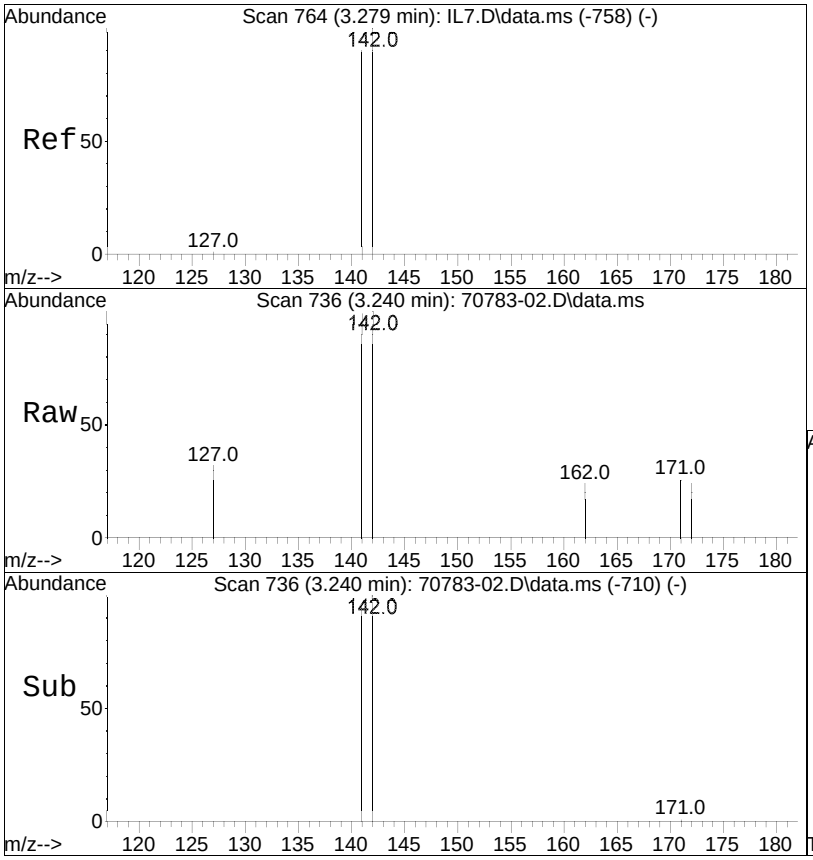


#10
Naphthalene
Concen: 10.36 ng/ml
RT: 2.861 min Scan# 617
Delta R.T. 0.002 min
Lab File: 70783-02.D
Acq: 07 Dec 2023 07:21 pm

Tgt Ion:128 Resp: 353

Ion	Ratio	Lower	Upper
128	100		
129	13.9	8.8	13.2#
127	0.0	0.0	0.0

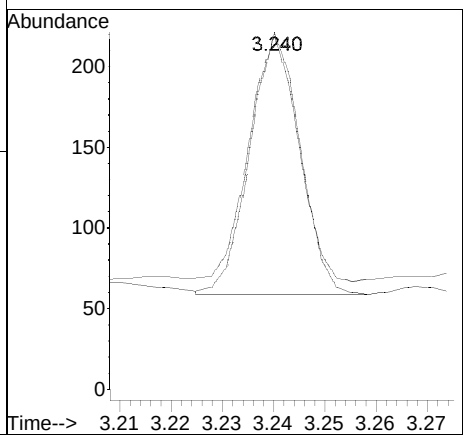


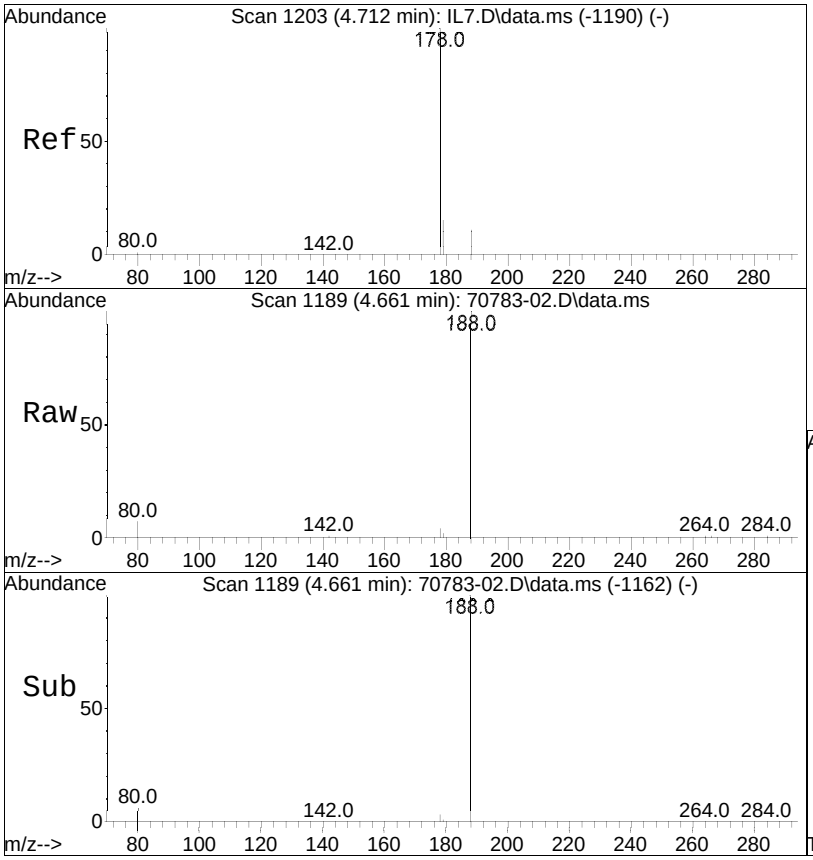


#12
2-Methylnaphthalene
Concen: 4.98 ng/ml
RT: 3.240 min Scan# 736
Delta R.T. -0.001 min
Lab File: 70783-02.D
Acq: 07 Dec 2023 07:21 pm

Tgt Ion:142 Resp: 109

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.6	110.4

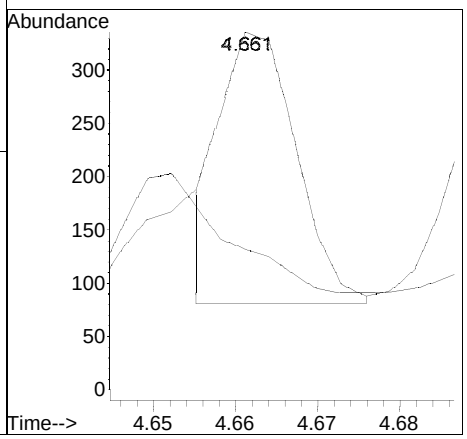


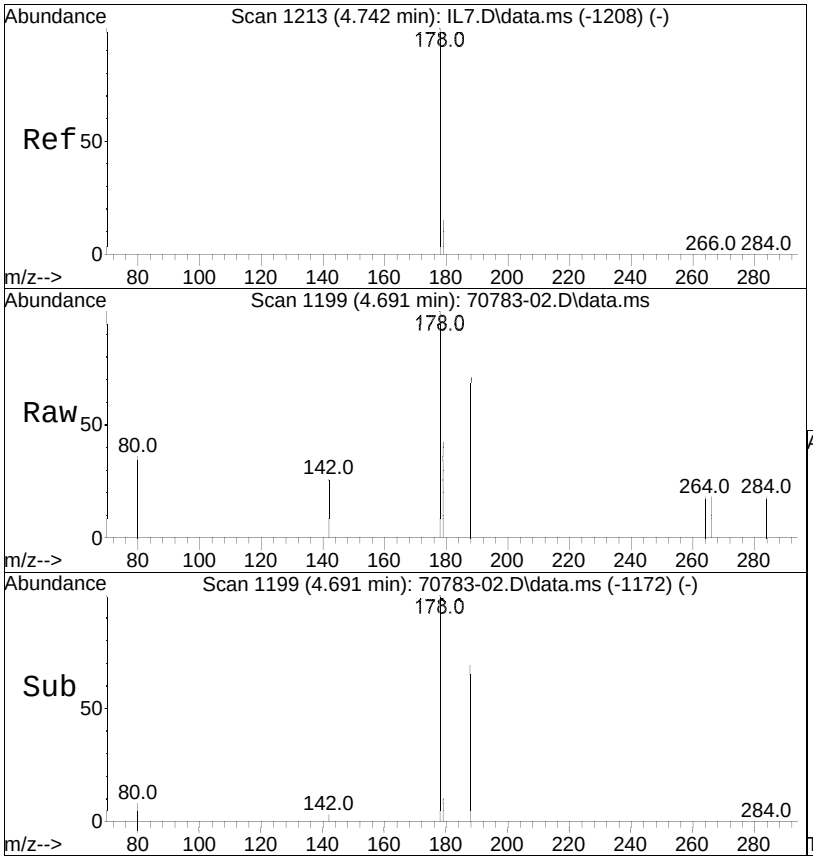


#27
Phenanthrene
Concen: 4.59 ng/ml M6
RT: 4.661 min Scan# 1189
Delta R.T. -0.001 min
Lab File: 70783-02.D
Acq: 07 Dec 2023 07:21 pm

Tgt Ion:178 Resp: 164

Ion	Ratio	Lower	Upper
178	100		
179	17.1	12.3	18.5

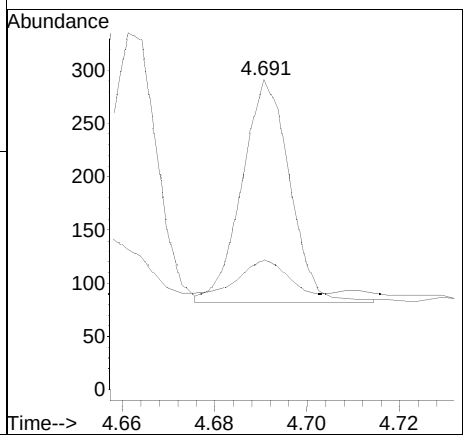


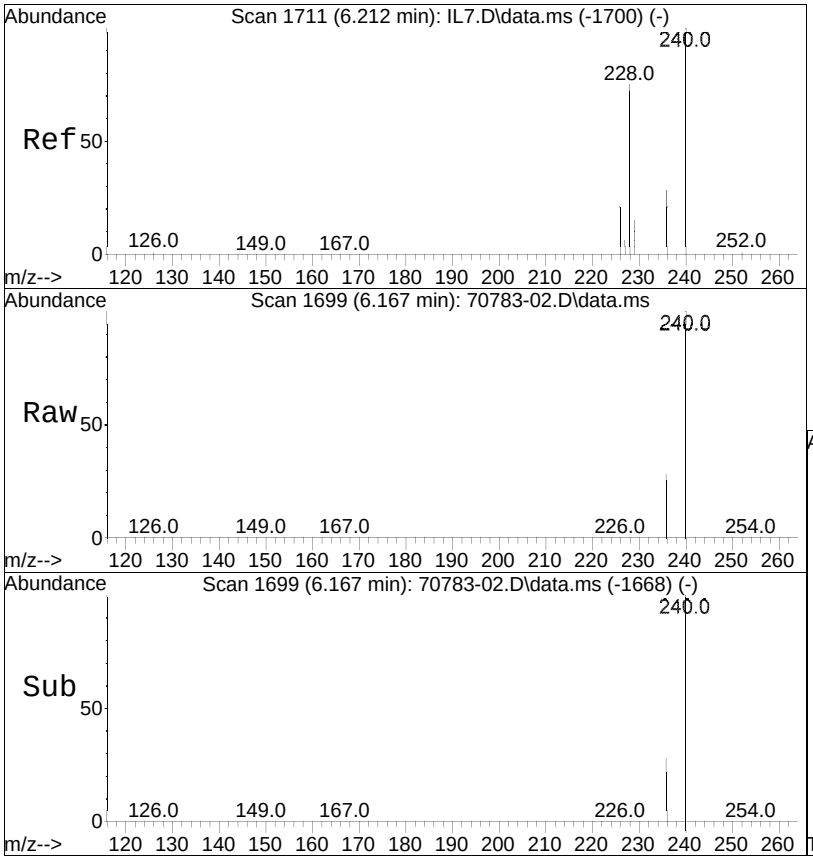


#28
Anthracene
Concen: 4.49 ng/ml M6
RT: 4.691 min Scan# 1199
Delta R.T. -0.001 min
Lab File: 70783-02.D
Acq: 07 Dec 2023 07:21 pm

Tgt Ion:178 Resp: 150

Ion	Ratio	Lower	Upper
178	100		
179	19.3	12.2	18.4#

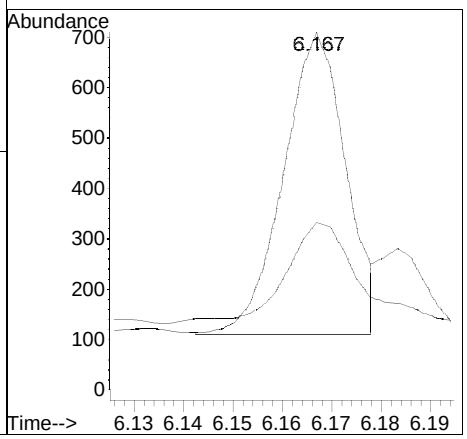




#33
Benzo[a]anthracene
Concen: 7.76 ng/ml M6
RT: 6.167 min Scan# 1699
Delta R.T. 0.005 min
Lab File: 70783-02.D
Acq: 07 Dec 2023 07:21 pm

Tgt Ion:228 Resp: 523

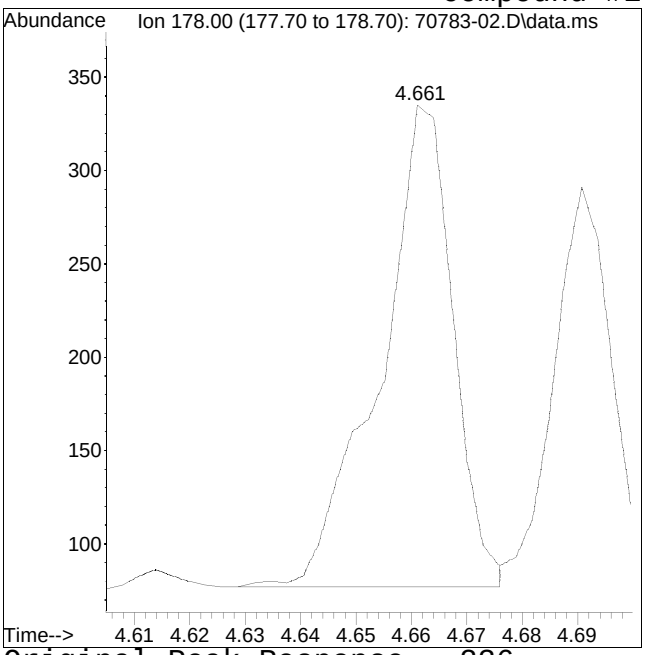
Ion	Ratio	Lower	Upper
228	100		
229	39.0	15.6	23.4#



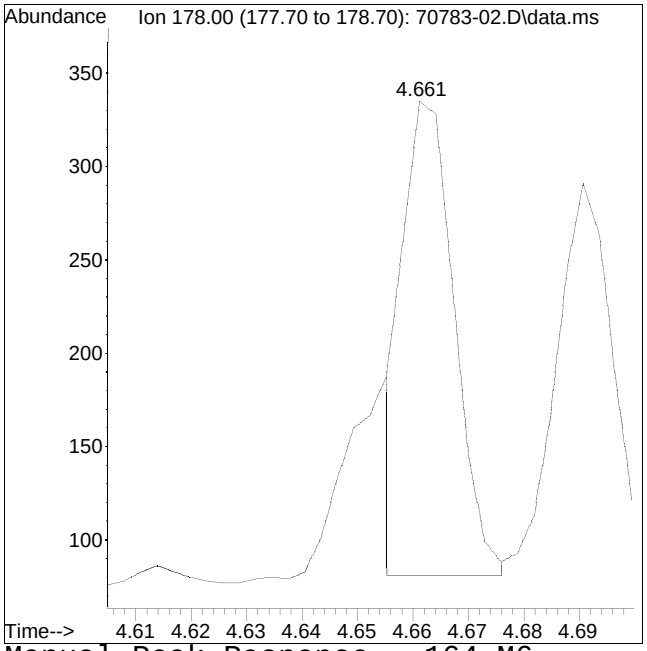
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-02.D Operator : SV125:dv
Date Inj'd : 12/7/2023 7:21 pm Instrument : SV125
Sample : L2370783-02,32,,ah Quant Date : 12/7/2023 7:44 pm

Compound #27: Phenanthrene



Original Peak Response = 236



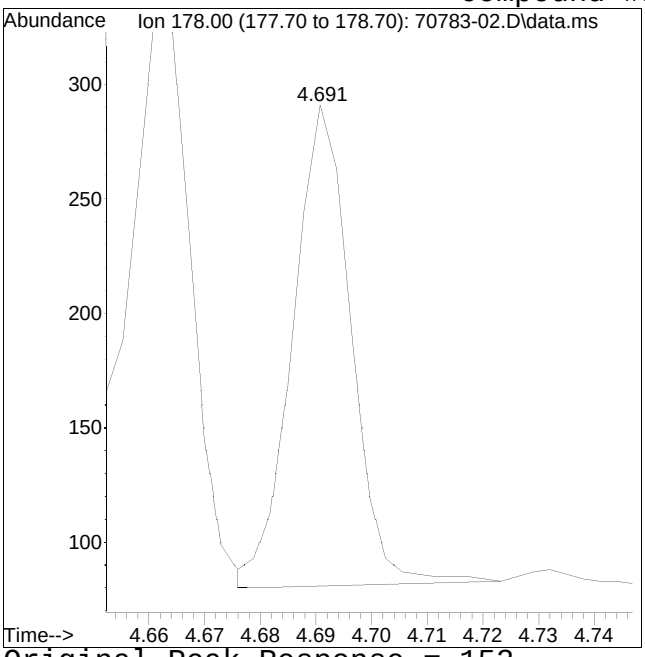
Manual Peak Response = 164 M6

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

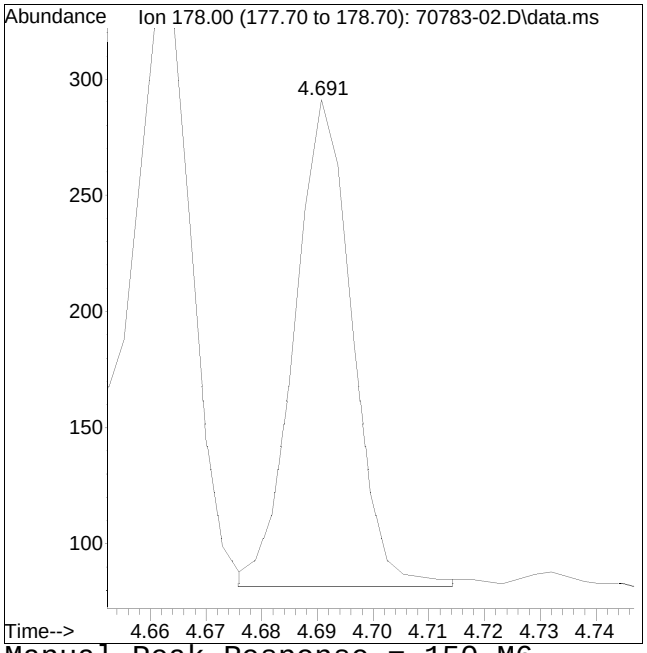
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-02.D Operator : SV125:dv
Date Inj'd : 12/7/2023 7:21 pm Instrument : SV125
Sample : L2370783-02,32,,ah Quant Date : 12/7/2023 7:44 pm

Compound #28: Anthracene



Original Peak Response = 152



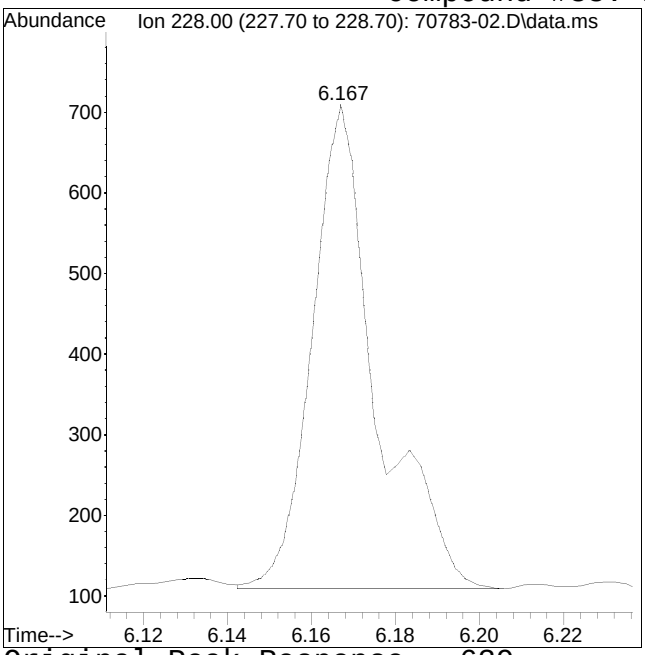
Manual Peak Response = 150 M6

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

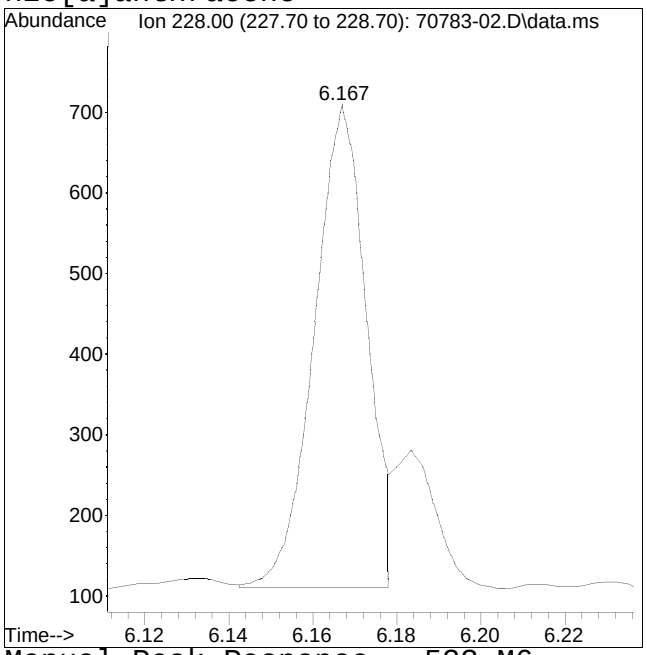
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-02.D Operator : SV125:dv
Date Inj'd : 12/7/2023 7:21 pm Instrument : SV125
Sample : L2370783-02,32,,ah Quant Date : 12/7/2023 7:44 pm

Compound #33: Benzo[a]anthracene



Original Peak Response = 639



Manual Peak Response = 523 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-03.D
Acq On : 07 Dec 2023 07:37 pm
Operator : SV125:dv
Sample : L2370783-03,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 08 07:18:22 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.189	152	36351	4000.000	ng/ml	0.00
Standard Area 1 = 35016			Recovery = 103.81%			
9) Naphthalene-d8	2.849	136	136522	4000.000	ng/ml	0.00
Standard Area 1 = 133973			Recovery = 101.90%			
18) Acenaphthene-d10	3.820	164	72469	4000.000	ng/ml	0.00
Standard Area 1 = 74318			Recovery = 97.51%			
23) Phenanthrene-d10	4.649	188	147829	4000.000	ng/ml	0.00
Standard Area 1 = 152800			Recovery = 96.75%			
32) Chrysene-d12	6.166	240	134552	4000.000	ng/ml	0.00
Standard Area 1 = 132050			Recovery = 101.89%			
37) Perylene-d12	7.307	264	169897	4000.000	ng/ml	0.00
Standard Area 1 = 149607			Recovery = 113.56%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.592	112	27750	3009.682	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 60.19%			
4) Phenol-d6	1.999	99	34926	3274.329	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 65.49%			
8) Nitrobenzene-d5	2.467	82	22979	2771.839	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 110.87%			
14) 2-Fluorobiphenyl	3.444	172	55866	2136.776	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 85.47%			
22) 2,4,6-Tribromophenol	4.260	330	9418	2548.127	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 50.96%			
31) 4-Terphenyl-d14	5.555	244	59757	2114.242	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 84.57%			
Target Compounds						Qvalue
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	2.861	128	738	21.535	ng/ml#	94
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	3.240	142	118	5.364	ng/ml	92
15) 2-Chloronaphthalene	0.000		0	N.D.		
17) Acenaphthylene	3.738	152	281	8.477	ng/ml	96
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	4.126	166	106	4.274	ng/ml	88
25) Hexachlorobenzene	0.000		0	N.D.	d	
26) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-03.D
Acq On : 07 Dec 2023 07:37 pm
Operator : SV125:dv
Sample : L2370783-03,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 08 07:18:22 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	4.661	178	228M6	6.182	ng/ml	
28) Anthracene	4.690	178	171M4	4.953	ng/ml	
29) Fluoranthene	5.332	202	234M4	5.770	ng/ml	
30) Pyrene	5.462	202	234	5.507	ng/ml#	79
33) Benzo[a]anthracene	6.166	228	586	8.591	ng/ml#	50
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	6.958	252	252	5.504	ng/ml	92
39) Benzo[k]fluoranthene	6.980	252	146M3	3.214	ng/ml	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

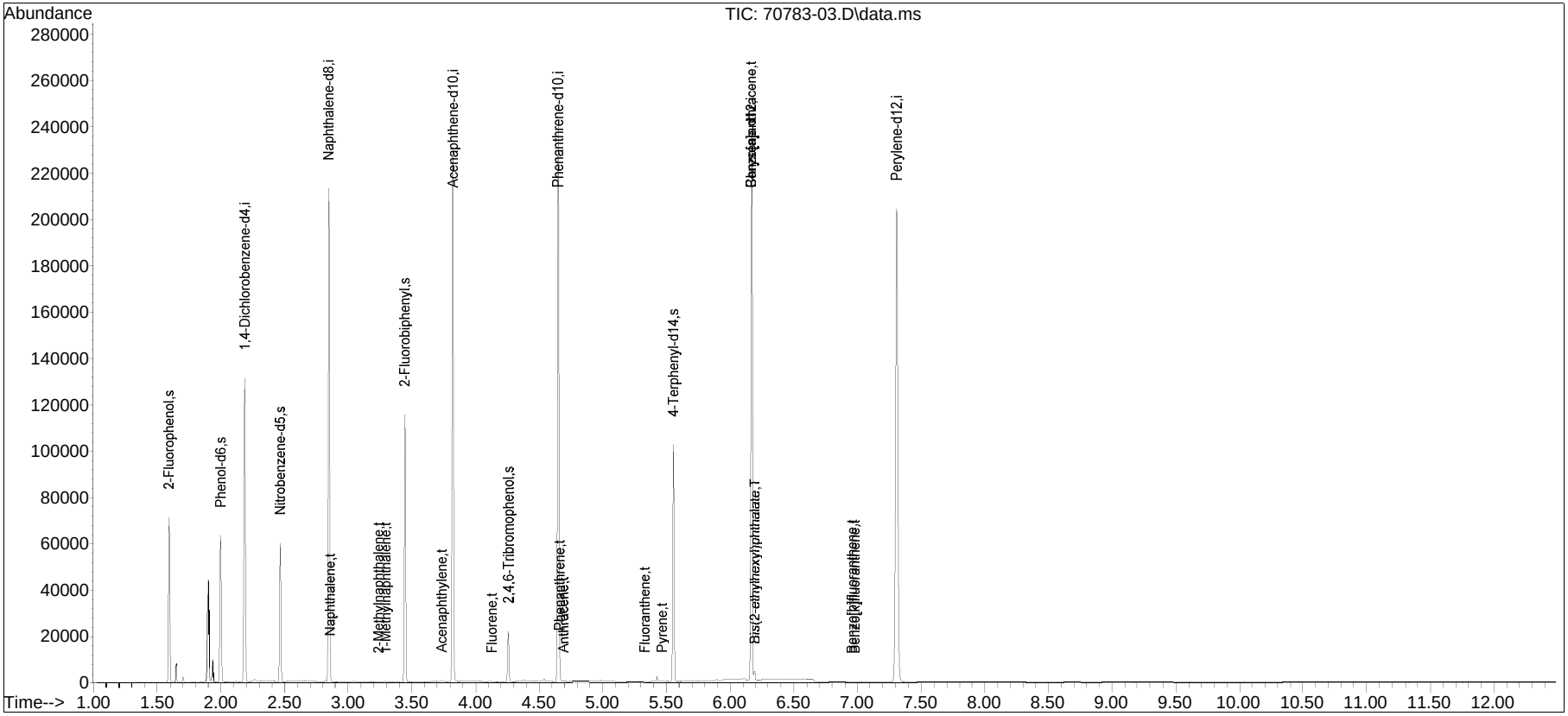
(#) = qualifier out of range (m) = manual integration (+) = signals summed

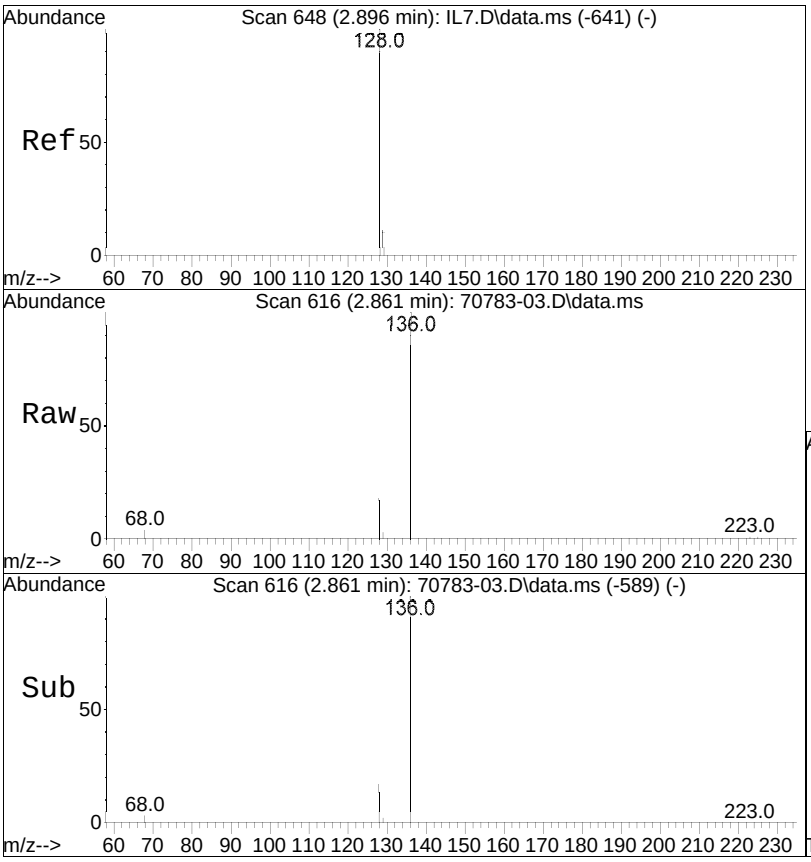
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-03.D
Acq On : 07 Dec 2023 07:37 pm
Operator : SV125:dv
Sample : L2370783-03,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 08 07:18:22 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedI\ccv1207b.D•

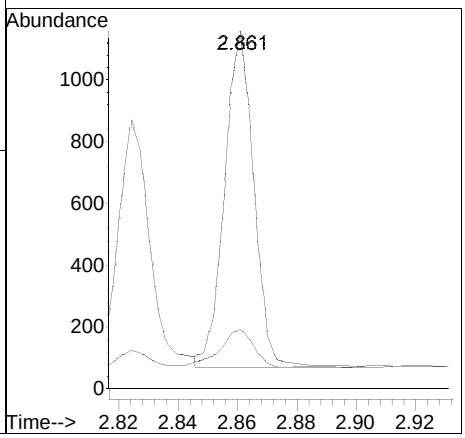


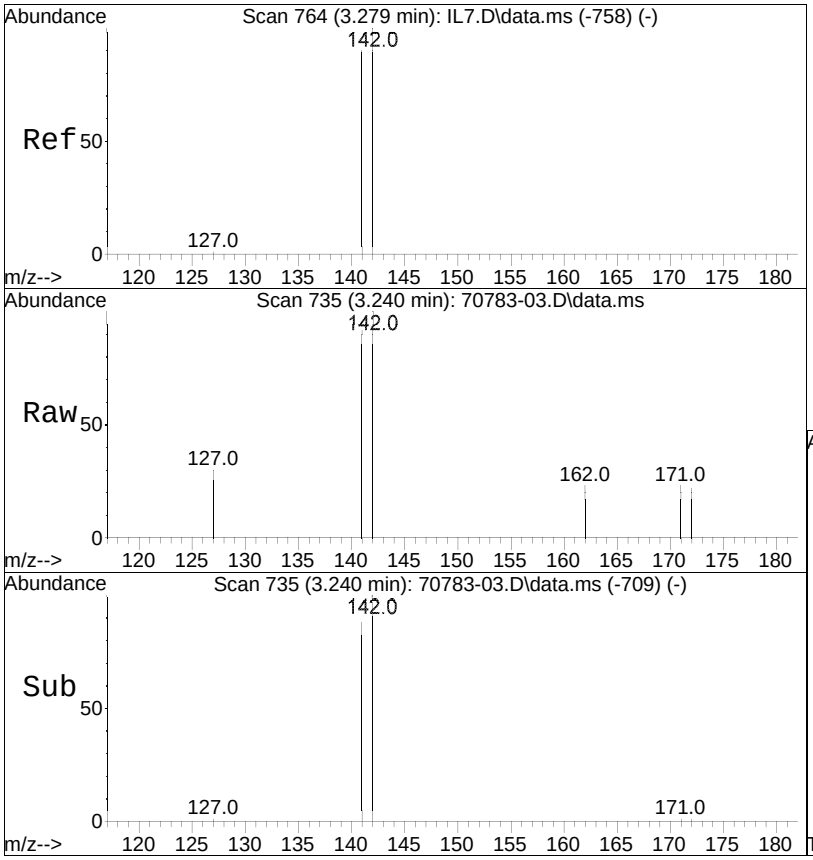


#10
Naphthalene
Concen: 21.54 ng/ml
RT: 2.861 min Scan# 616
Delta R.T. 0.001 min
Lab File: 70783-03.D
Acq: 07 Dec 2023 07:37 pm

Tgt Ion:128 Resp: 738

Ion	Ratio	Lower	Upper
128	100		
129	13.1	8.8	13.2
127	0.0	0.0	0.0

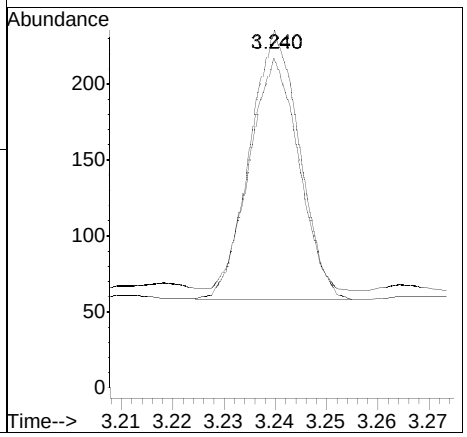


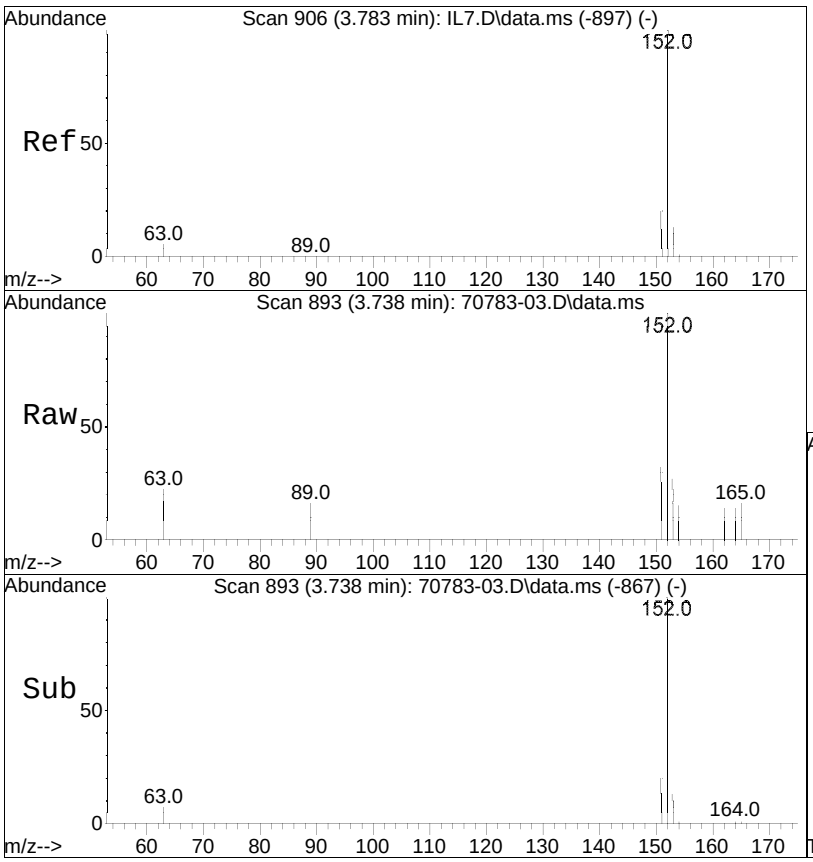


#12
2-Methylnaphthalene
Concen: 5.36 ng/ml
RT: 3.240 min Scan# 735
Delta R.T. -0.002 min
Lab File: 70783-03.D
Acq: 07 Dec 2023 07:37 pm

Tgt Ion:142 Resp: 118

Ion	Ratio	Lower	Upper
142	100		
141	83.9	73.6	110.4

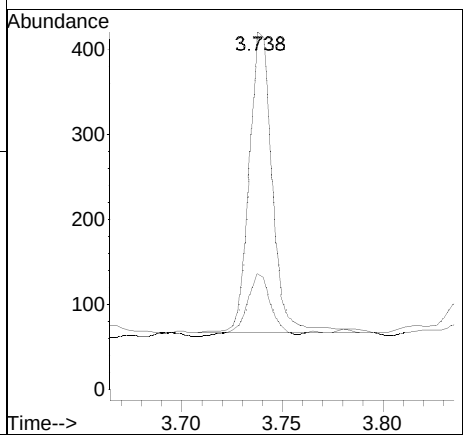


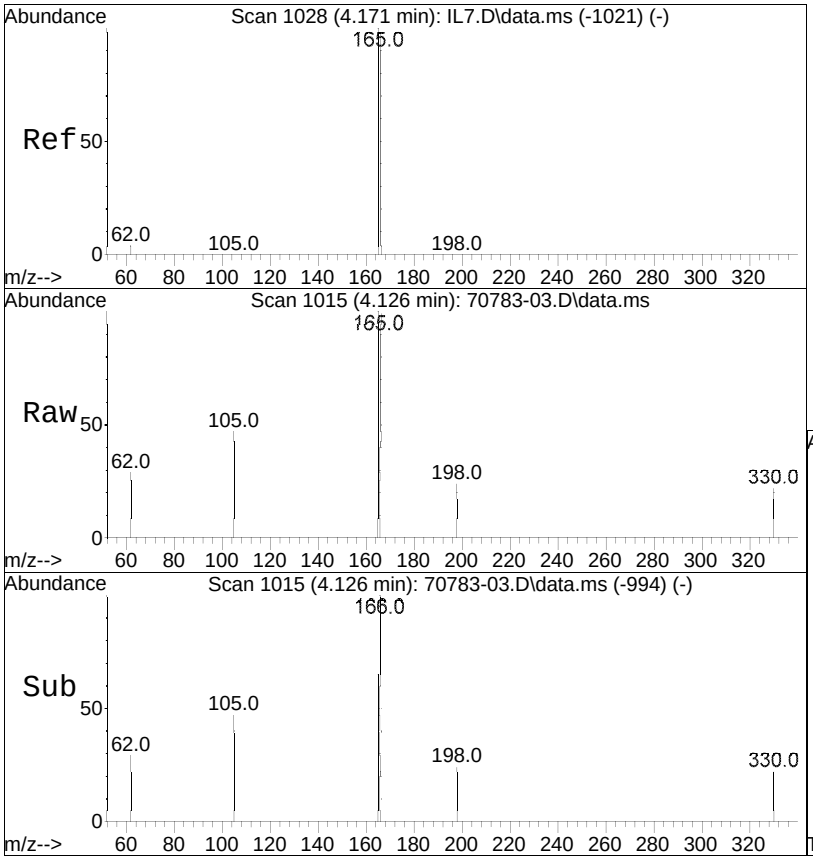


#17
Acenaphthylene
Concen: 8.48 ng/ml
RT: 3.738 min Scan# 893
Delta R.T. -0.002 min
Lab File: 70783-03.D
Acq: 07 Dec 2023 07:37 pm

Tgt Ion:152 Resp: 281

Ion	Ratio	Lower	Upper
152	100		
151	21.7	15.8	23.8

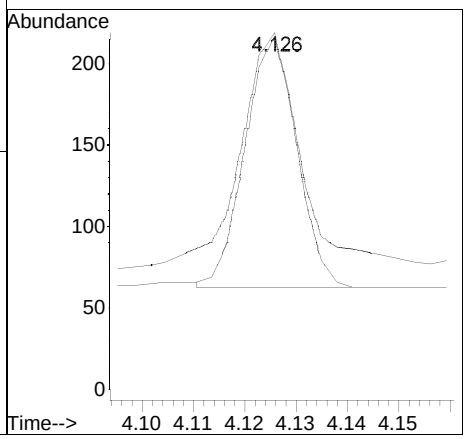


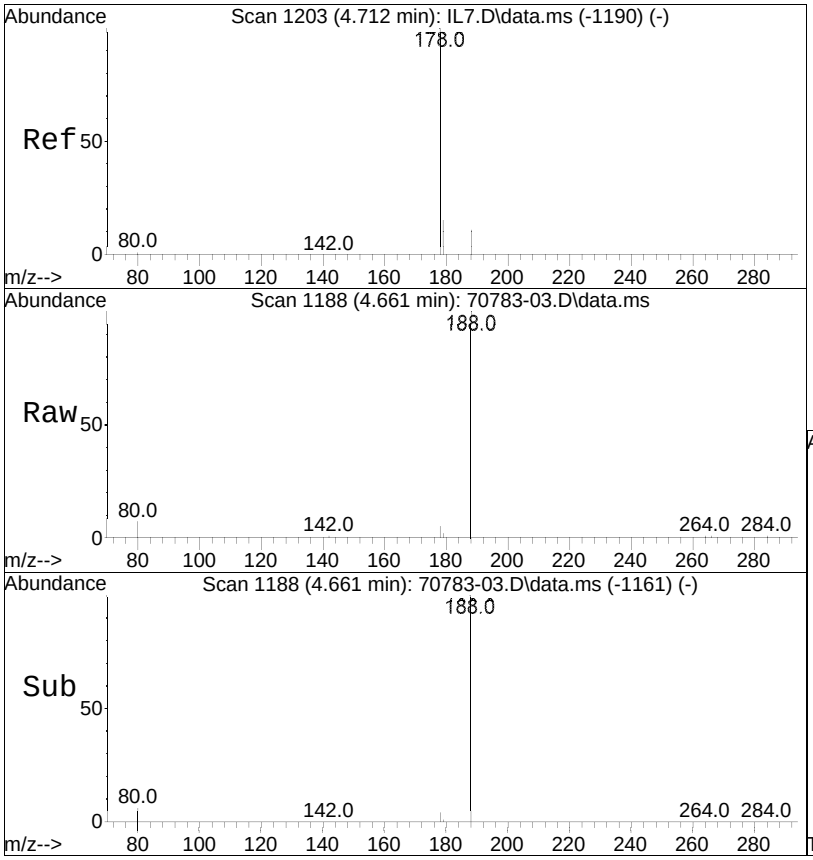


#21
Fluorene
Concen: 4.27 ng/ml
RT: 4.126 min Scan# 1015
Delta R.T. 0.001 min
Lab File: 70783-03.D
Acq: 07 Dec 2023 07:37 pm

Tgt Ion:166 Resp: 106

Ion	Ratio	Lower	Upper
166	100		
165	113.2	81.0	121.4

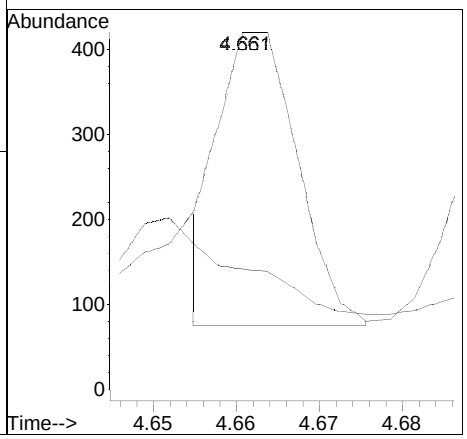


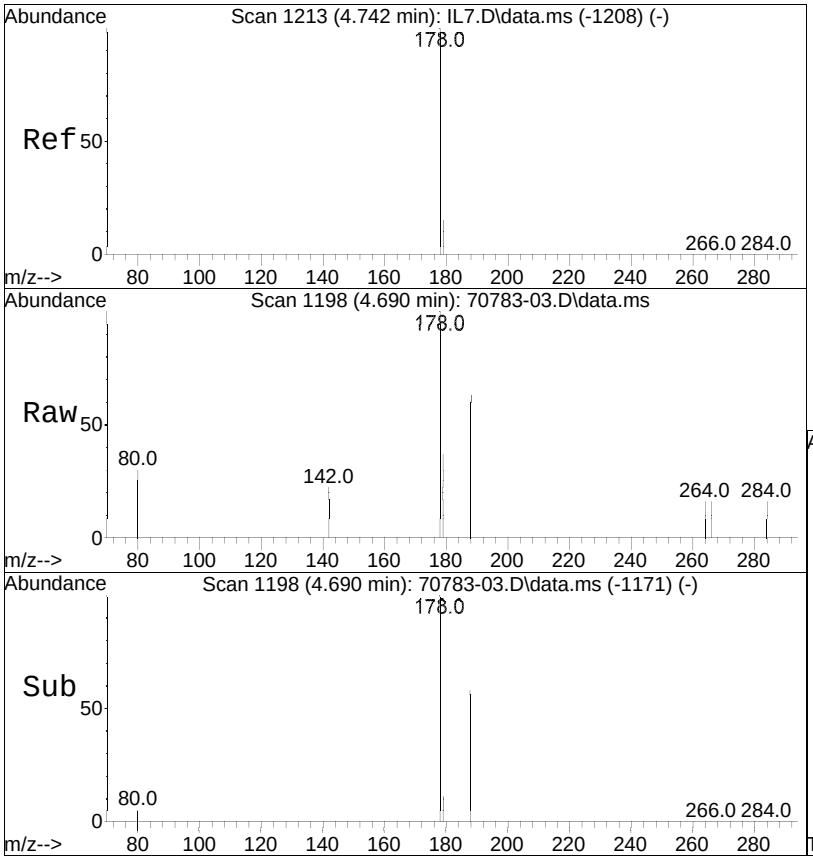


#27
Phenanthrene
Concen: 6.18 ng/ml M6
RT: 4.661 min Scan# 1188
Delta R.T. -0.001 min
Lab File: 70783-03.D
Acq: 07 Dec 2023 07:37 pm

Tgt Ion:178 Resp: 228

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.3	18.5

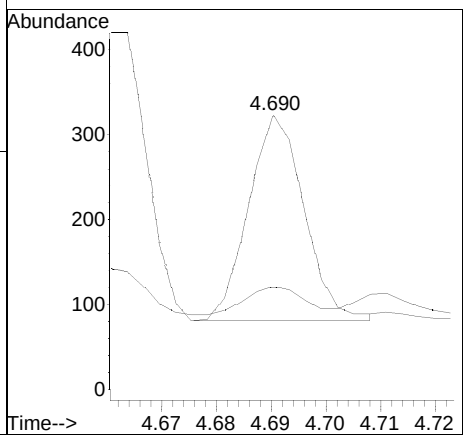


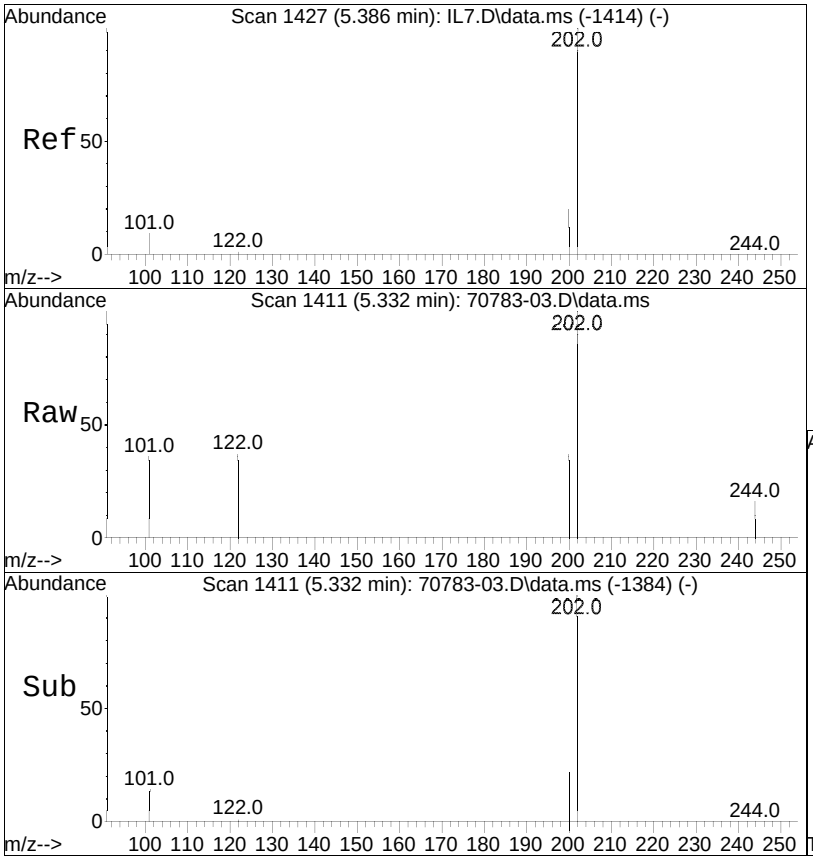


#28
Anthracene
Concen: 4.95 ng/ml M4
RT: 4.690 min Scan# 1198
Delta R.T. -0.001 min
Lab File: 70783-03.D
Acq: 07 Dec 2023 07:37 pm

Tgt Ion:178 Resp: 171

Ion	Ratio	Lower	Upper
178	100		
179	16.4	12.2	18.4

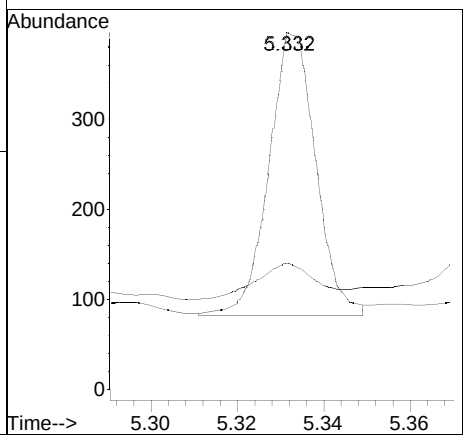


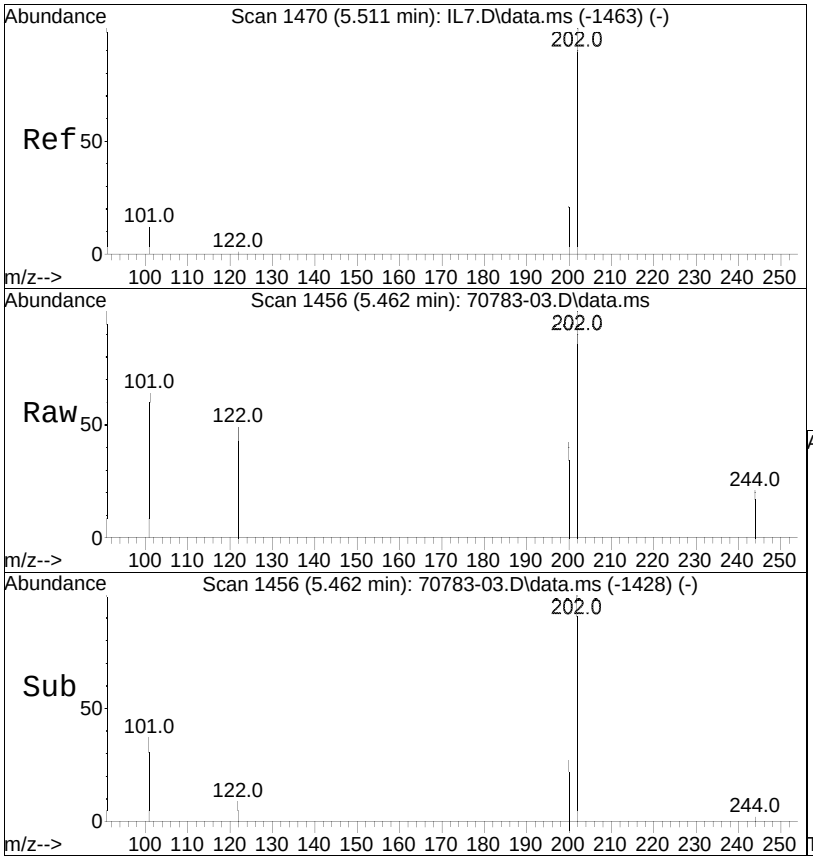


#29
Fluoranthene
Concen: 5.77 ng/ml M4
RT: 5.332 min Scan# 1411
Delta R.T. -0.001 min
Lab File: 70783-03.D
Acq: 07 Dec 2023 07:37 pm

Tgt Ion:202 Resp: 234

Ion	Ratio	Lower	Upper
202	100		
101	19.2	7.8	11.8#

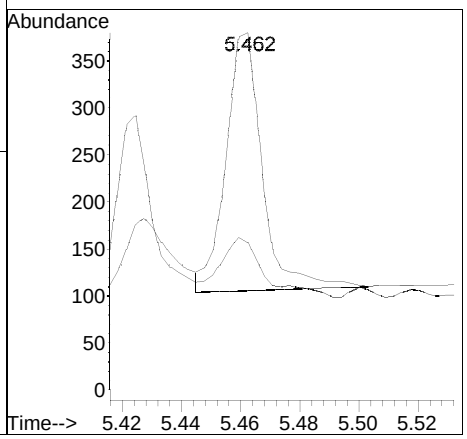


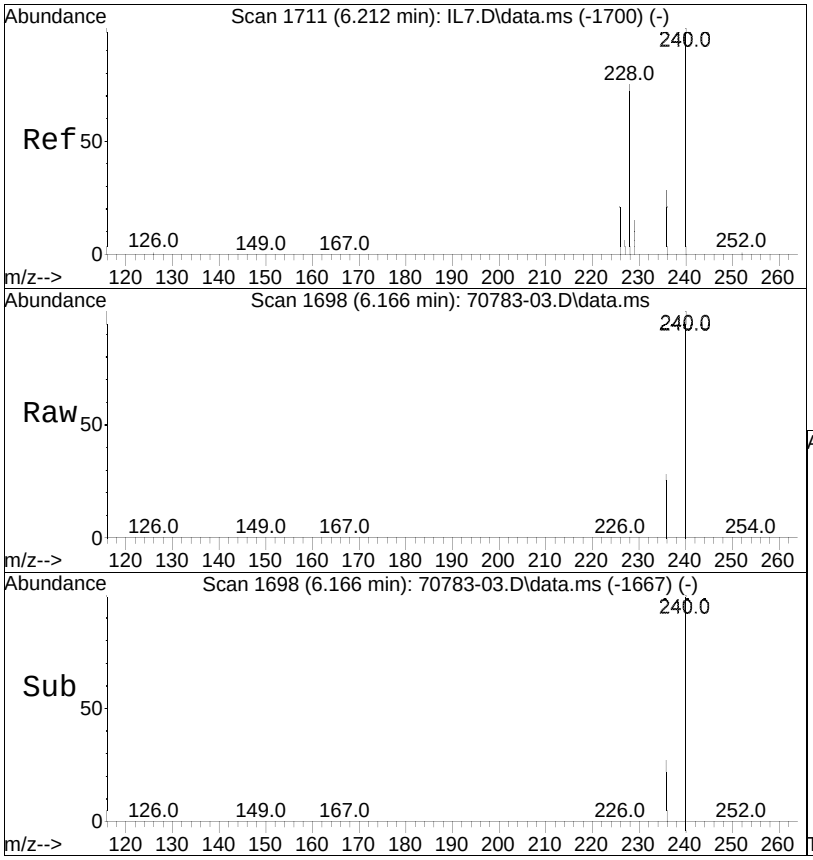


#30
Pyrene
Concen: 5.51 ng/ml
RT: 5.462 min Scan# 1456
Delta R.T. 0.001 min
Lab File: 70783-03.D
Acq: 07 Dec 2023 07:37 pm

Tgt Ion:202 Resp: 234

Ion	Ratio	Lower	Upper
202	100		
200	31.2	17.0	25.4#

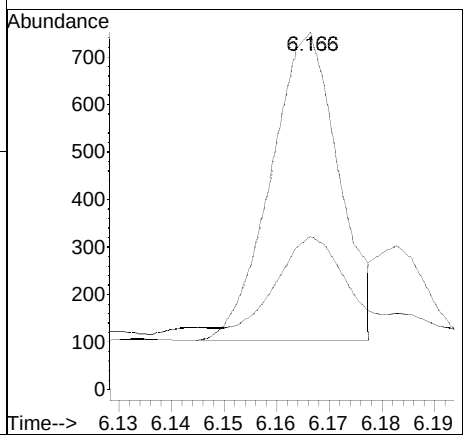


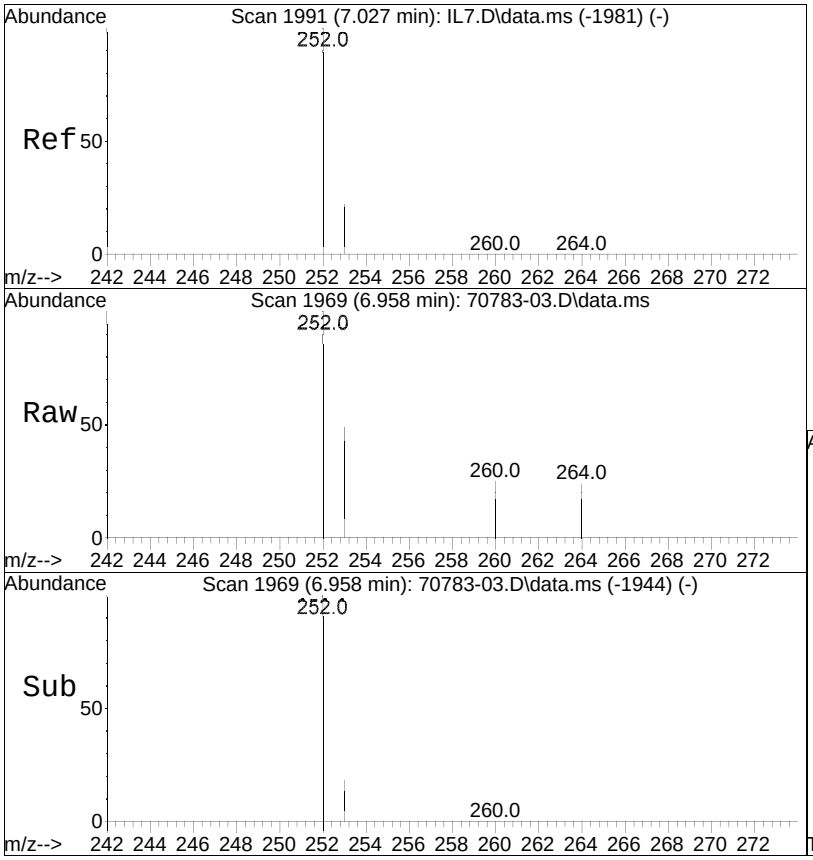


#33
Benzo[a]anthracene
Concen: 8.59 ng/ml
RT: 6.166 min Scan# 1698
Delta R.T. 0.004 min
Lab File: 70783-03.D
Acq: 07 Dec 2023 07:37 pm

Tgt Ion:228 Resp: 586

Ion	Ratio	Lower	Upper
228	100		
229	42.3	15.6	23.4#

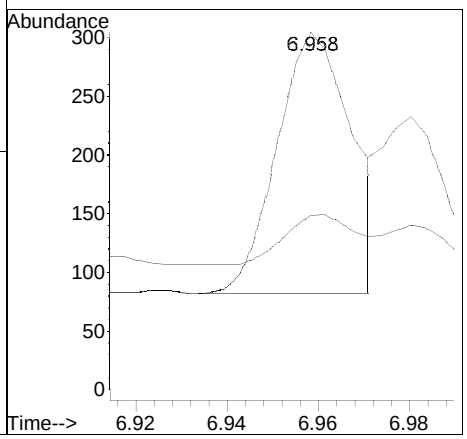


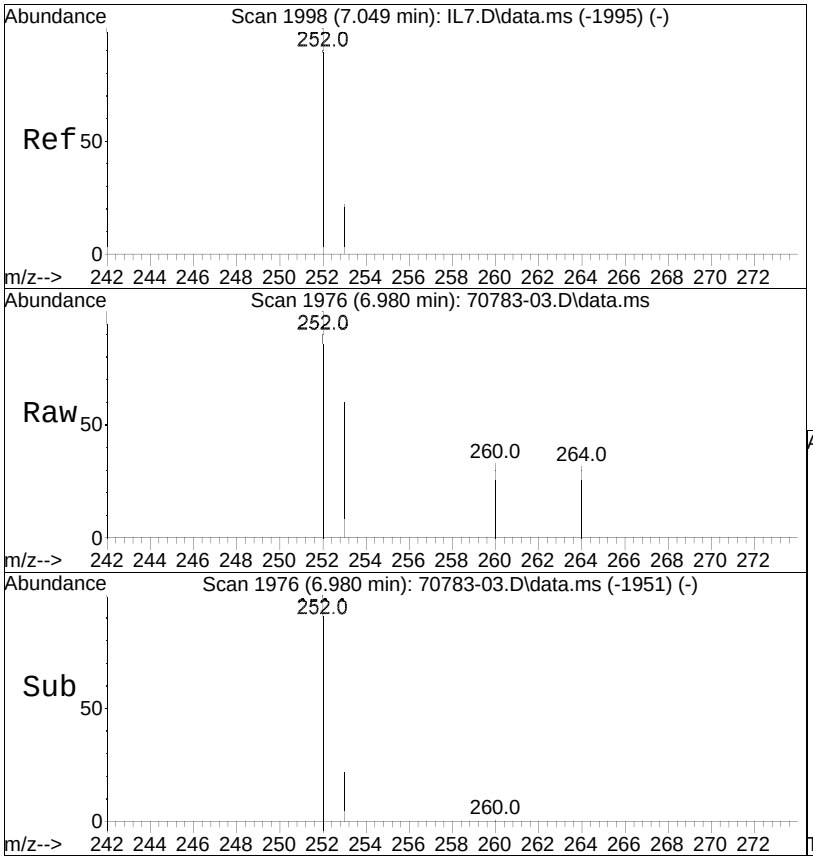


#38
Benzo[b]fluoranthene
Concen: 5.50 ng/ml
RT: 6.958 min Scan# 1969
Delta R.T. -0.002 min
Lab File: 70783-03.D
Acq: 07 Dec 2023 07:37 pm

Tgt Ion:252 Resp: 252

Ion	Ratio	Lower	Upper
252	100		
253	17.9	17.2	25.8

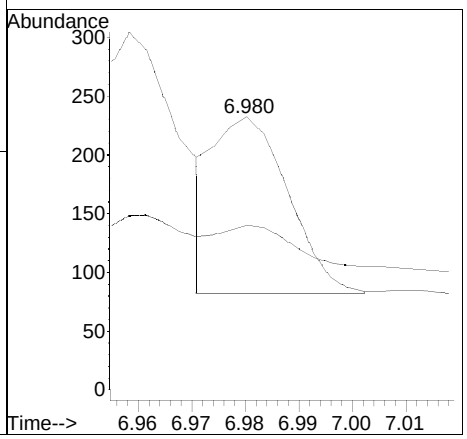




#39
Benzo[k]fluoranthene
Concen: 3.21 ng/ml M3
RT: 6.980 min Scan# 1976
Delta R.T. -0.002 min
Lab File: 70783-03.D
Acq: 07 Dec 2023 07:37 pm

Tgt Ion:252 Resp: 146

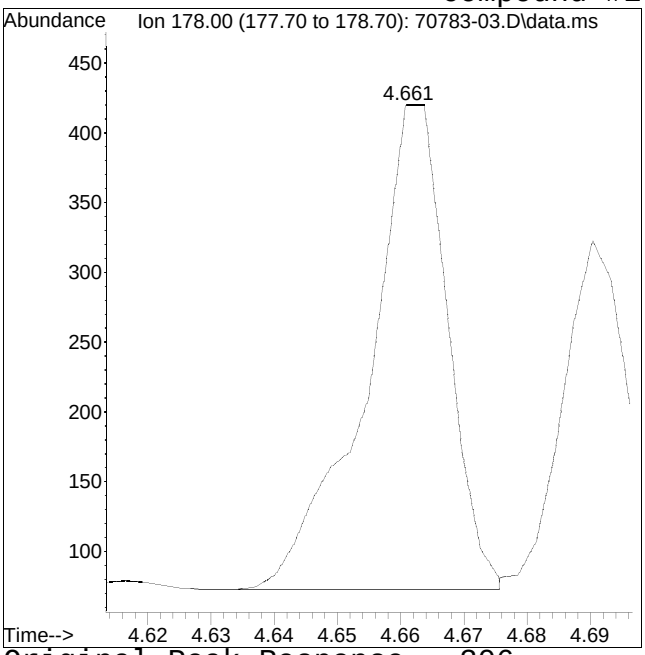
Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.5	26.3



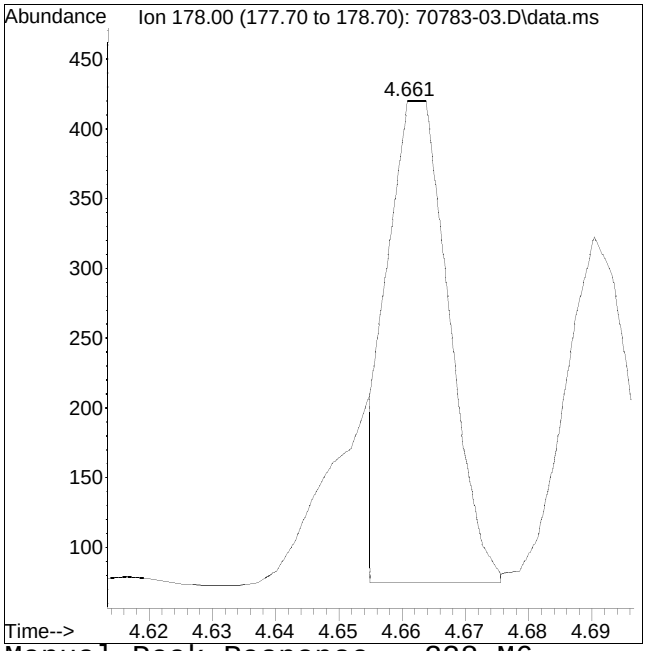
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-03.D Operator : SV125:dv
Date Inj'd : 12/7/2023 7:37 pm Instrument : SV125
Sample : L2370783-03,32,,ah Quant Date : 12/7/2023 8:00 pm

Compound #27: Phenanthrene



Original Peak Response = 306



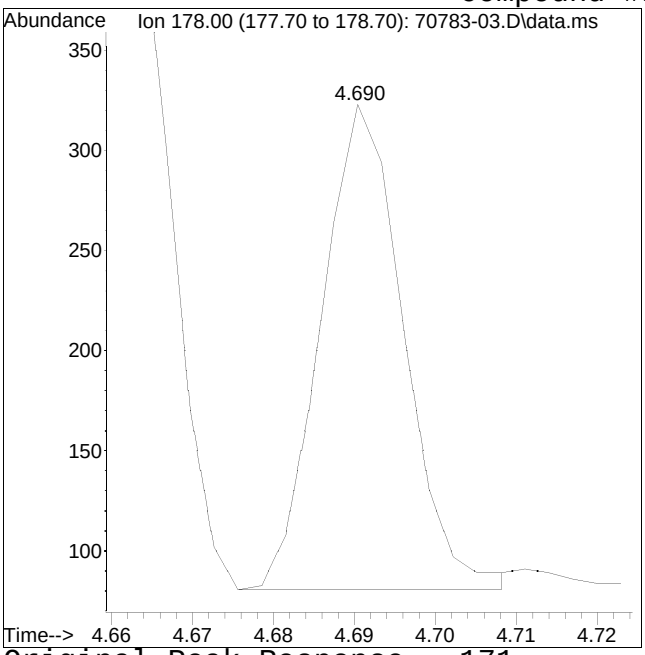
Manual Peak Response = 228 M6

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

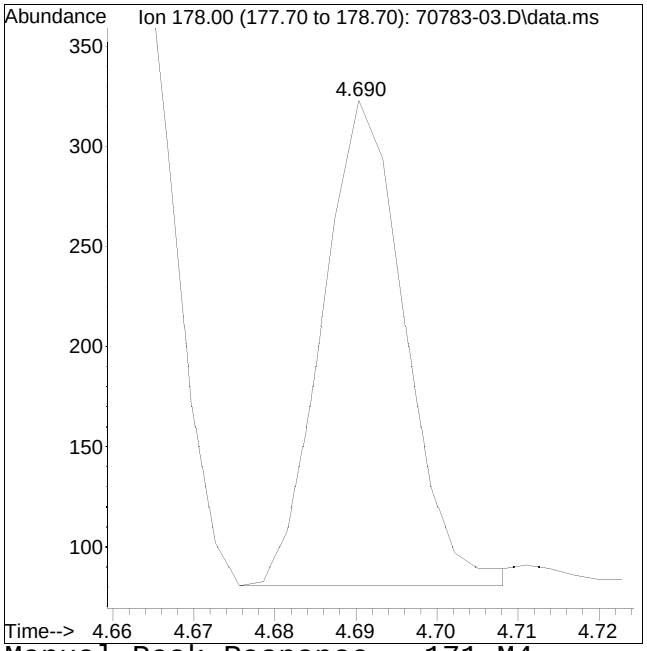
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-03.D Operator : SV125:dv
Date Inj'd : 12/7/2023 7:37 pm Instrument : SV125
Sample : L2370783-03,32,,ah Quant Date : 12/7/2023 8:00 pm

Compound #28: Anthracene



Original Peak Response = 171



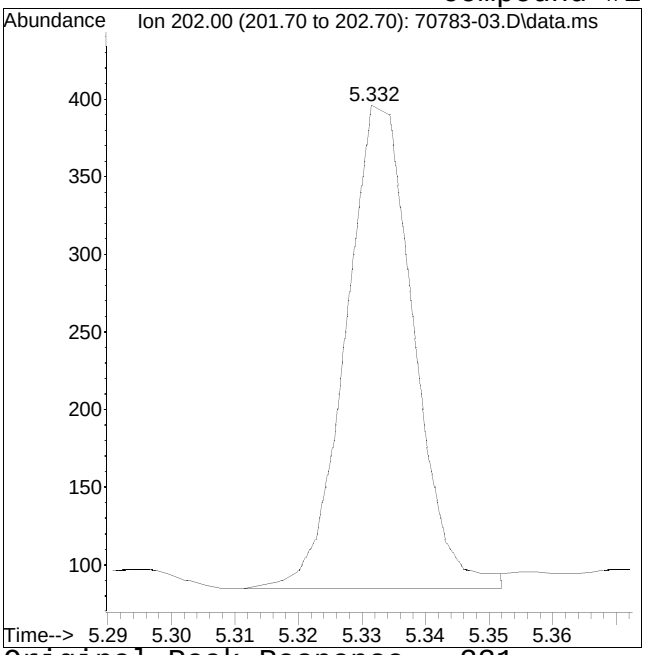
Manual Peak Response = 171 M4

M4 = Poor automated baseline construction.

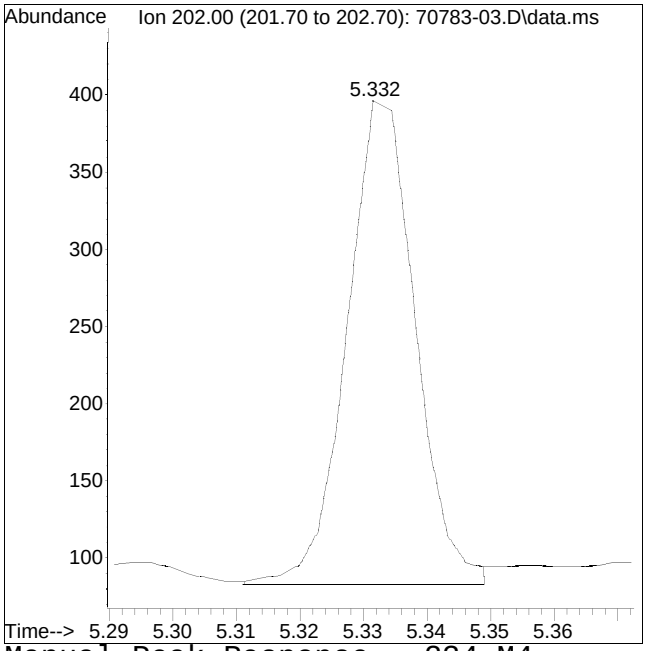
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-03.D Operator : SV125:dv
Date Inj'd : 12/7/2023 7:37 pm Instrument : SV125
Sample : L2370783-03,32,,ah Quant Date : 12/7/2023 8:00 pm

Compound #29: Fluoranthene



Original Peak Response = 231



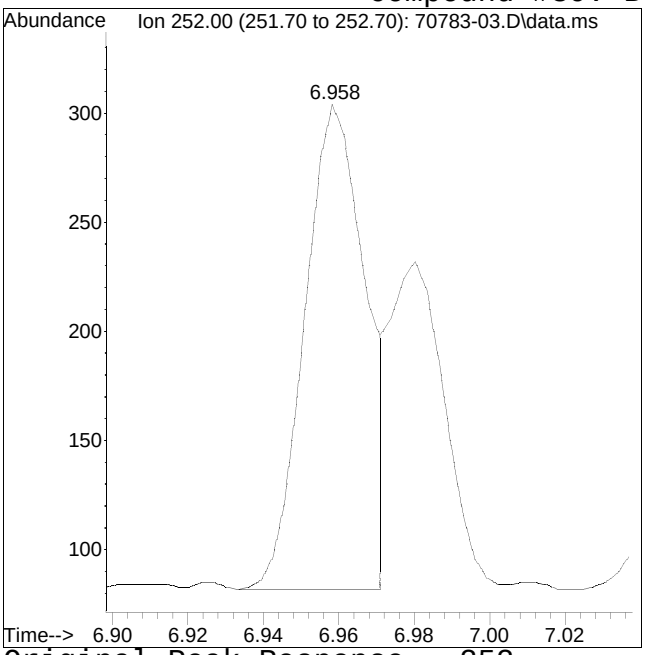
Manual Peak Response = 234 M4

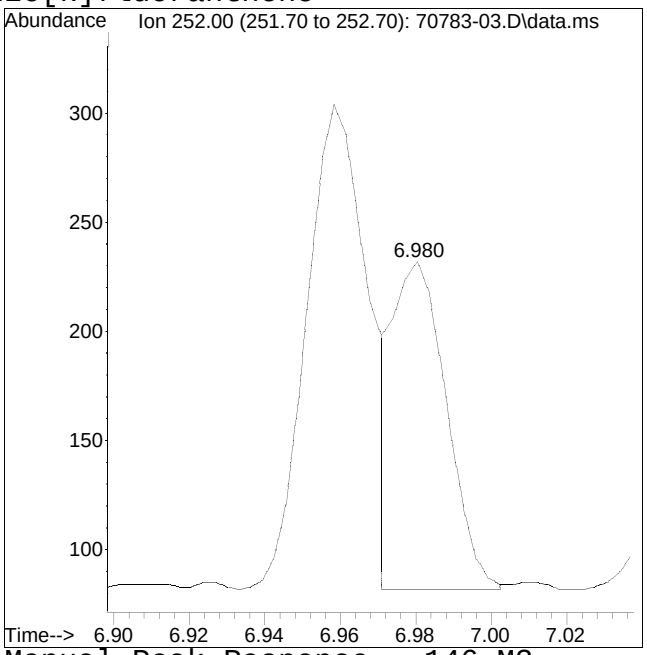
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-03.D Operator : SV125:dv
Date Inj'd : 12/7/2023 7:37 pm Instrument : SV125
Sample : L2370783-03,32,,ah Quant Date : 12/7/2023 8:00 pm

Compound #39: Benzo[k]fluoranthene





Original Peak Response = 252 Manual Peak Response = 146 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-04.D
Acq On : 07 Dec 2023 07:53 pm
Operator : SV125:dv
Sample : L2370783-04,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 08 07:19:22 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.189	152	41635	4000.000	ng/ml	0.00
Standard Area 1 = 35016			Recovery = 118.90%			
9) Naphthalene-d8	2.852	136	158360	4000.000	ng/ml	0.00
Standard Area 1 = 133973			Recovery = 118.20%			
18) Acenaphthene-d10	3.820	164	84989	4000.000	ng/ml	0.00
Standard Area 1 = 74318			Recovery = 114.36%			
23) Phenanthrene-d10	4.649	188	164369	4000.000	ng/ml	0.00
Standard Area 1 = 152800			Recovery = 107.57%			
32) Chrysene-d12	6.166	240	144489	4000.000	ng/ml	0.00
Standard Area 1 = 132050			Recovery = 109.42%			
37) Perylene-d12	7.308	264	182480	4000.000	ng/ml	0.00
Standard Area 1 = 149607			Recovery = 121.97%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.592	112	27905	2642.393	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 52.85%			
4) Phenol-d6	1.999	99	31018	2538.897	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 50.78%			
8) Nitrobenzene-d5	2.467	82	19296	2032.179	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 81.29%			
14) 2-Fluorobiphenyl	3.447	172	47916	1579.971	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 63.20%			
22) 2,4,6-Tribromophenol	4.260	330	9108	2113.647	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 42.27%			
31) 4-Terphenyl-d14	5.555	244	47793	1520.792	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 60.83%			
Target Compounds						Qvalue
7) Hexachloroethane	0.000		0	N.D.	d	
10) Naphthalene	2.861	128	605	15.220	ng/ml#	95
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	3.240	142	87	3.409	ng/ml	96
15) 2-Chloronaphthalene	0.000		0	N.D.		
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.		
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	
26) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-04.D
Acq On : 07 Dec 2023 07:53 pm
Operator : SV125:dv
Sample : L2370783-04,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 08 07:19:22 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	6.166	228	489M6	5.458	ng/ml	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.		
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

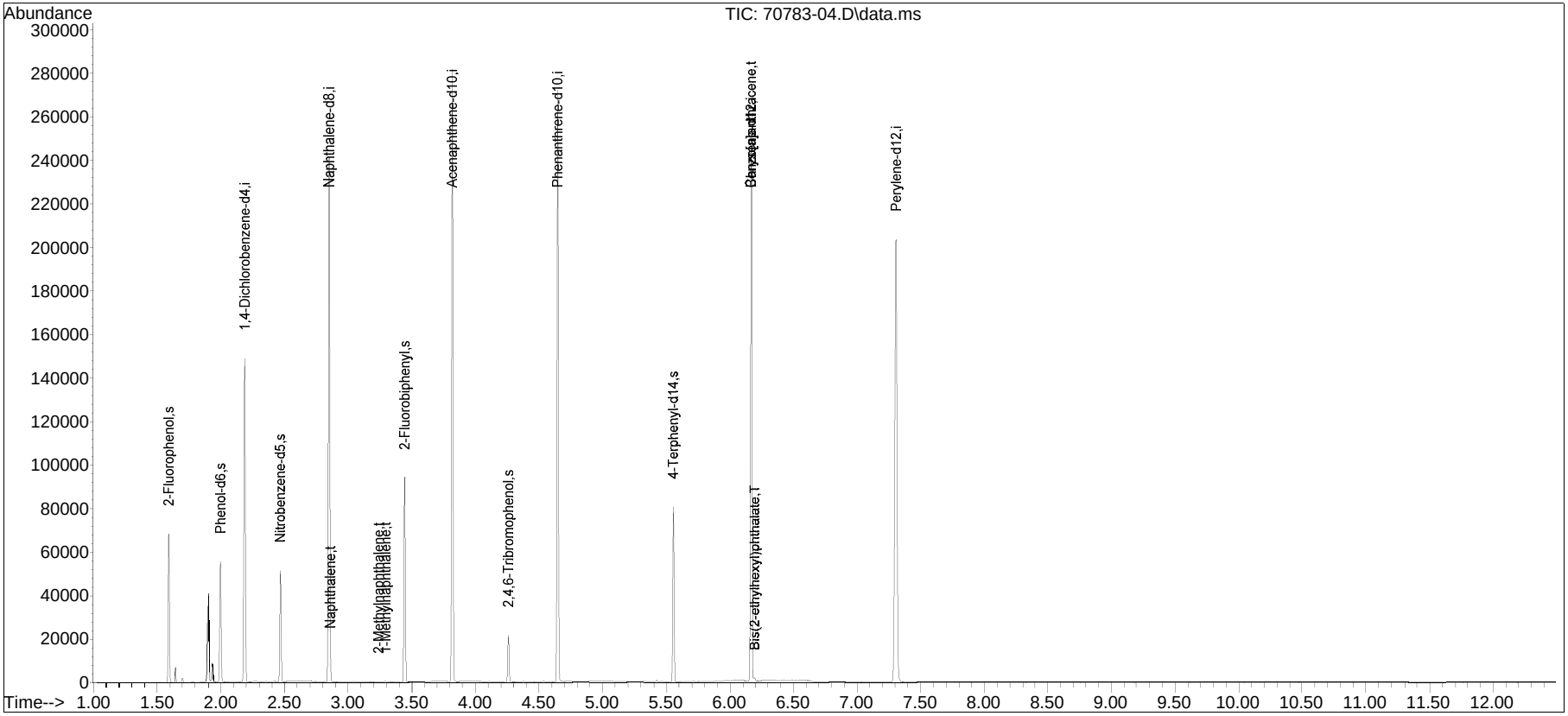
(#) = qualifier out of range (m) = manual integration (+) = signals summed

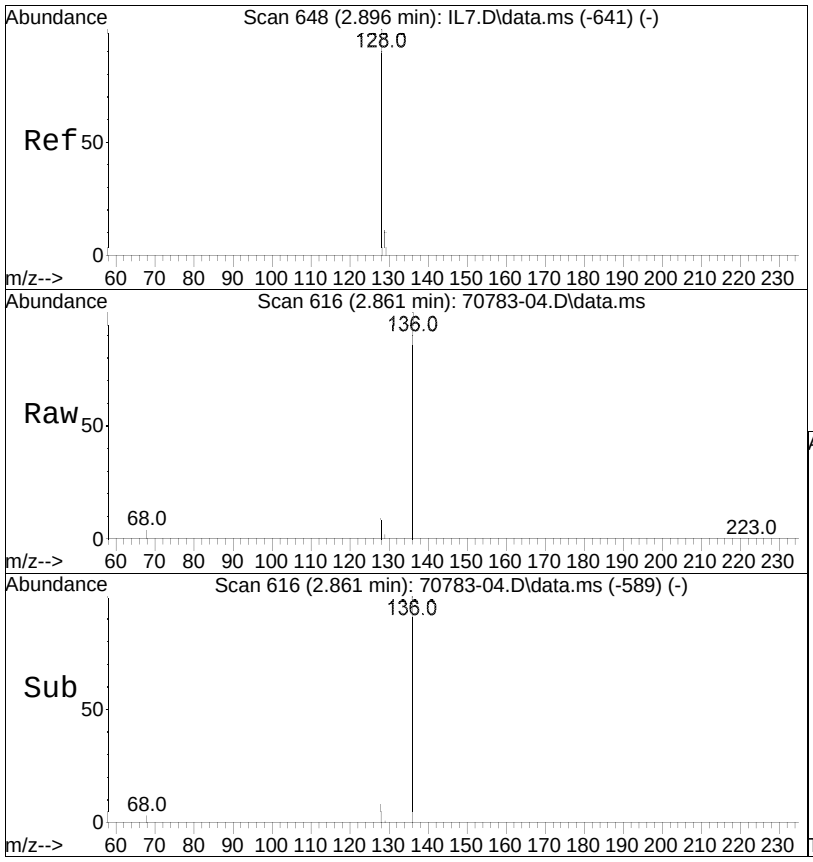
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-04.D
Acq On : 07 Dec 2023 07:53 pm
Operator : SV125:dv
Sample : L2370783-04,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 08 07:19:22 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedI\ccv1207b.D•

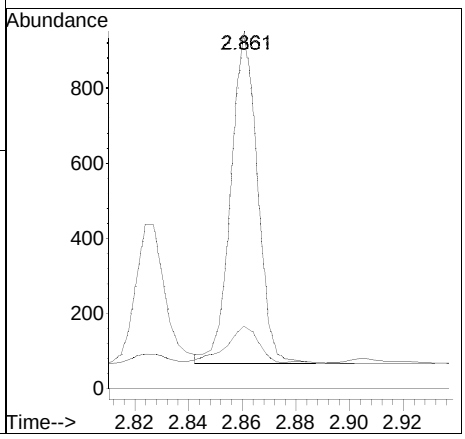


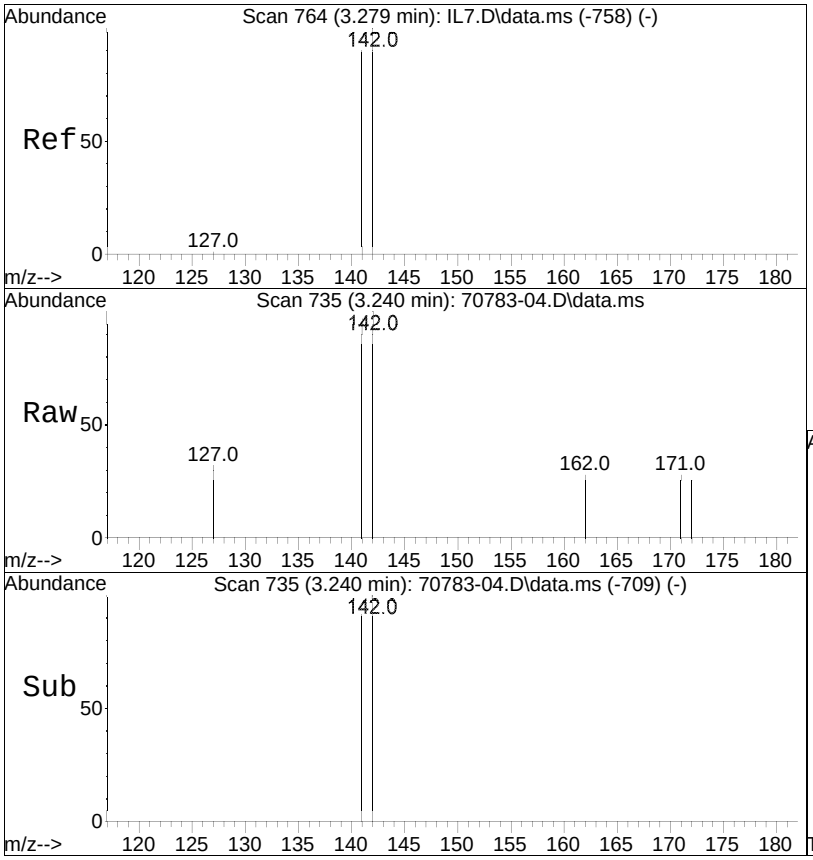


#10
Naphthalene
Concen: 15.22 ng/ml
RT: 2.861 min Scan# 616
Delta R.T. 0.001 min
Lab File: 70783-04.D
Acq: 07 Dec 2023 07:53 pm

Tgt Ion:128 Resp: 605

Ion	Ratio	Lower	Upper
128	100		
129	12.7	8.8	13.2
127	0.0	0.0	0.0

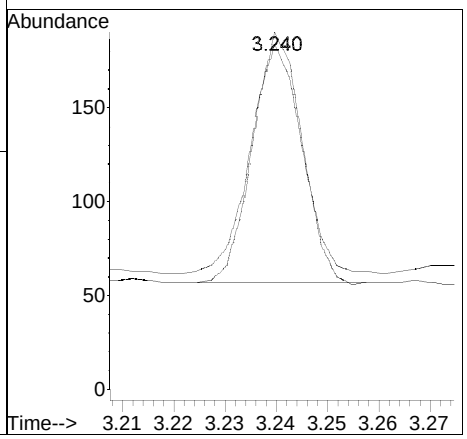


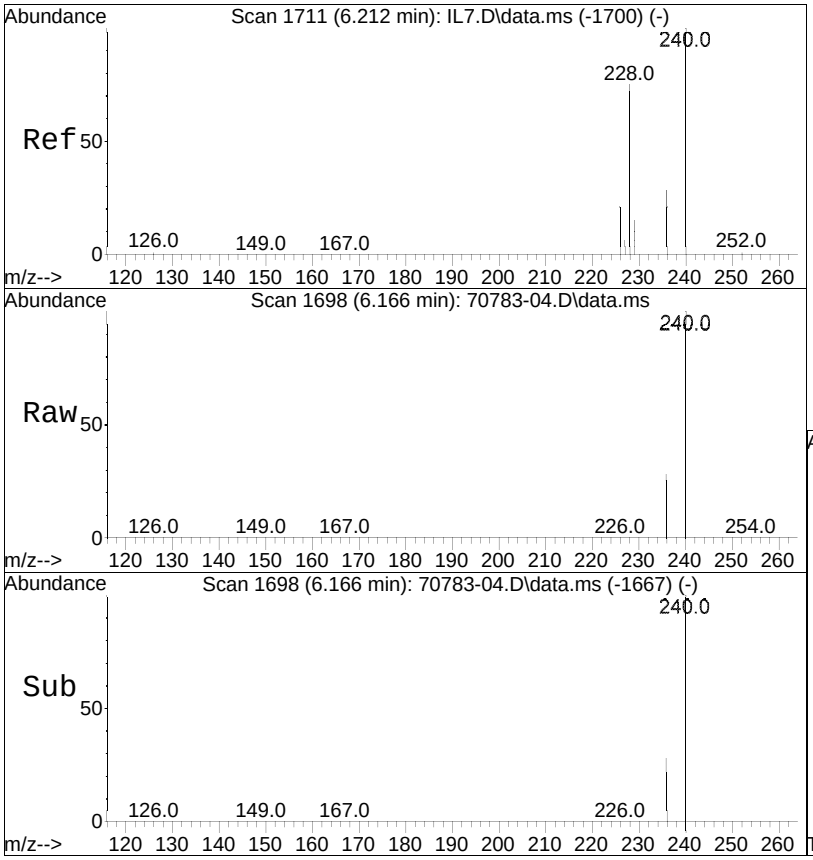


#12
2-Methylnaphthalene
Concen: 3.41 ng/ml
RT: 3.240 min Scan# 735
Delta R.T. -0.002 min
Lab File: 70783-04.D
Acq: 07 Dec 2023 07:53 pm

Tgt Ion:142 Resp: 87

Ion	Ratio	Lower	Upper
142	100		
141	95.4	73.6	110.4

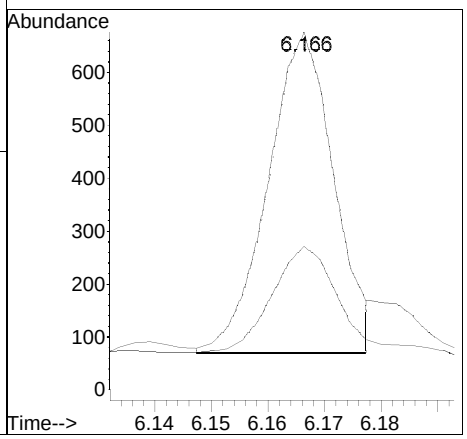




#33
Benzo[a]anthracene
Concen: 5.46 ng/ml M6
RT: 6.166 min Scan# 1698
Delta R.T. 0.004 min
Lab File: 70783-04.D
Acq: 07 Dec 2023 07:53 pm

Tgt Ion:228 Resp: 489

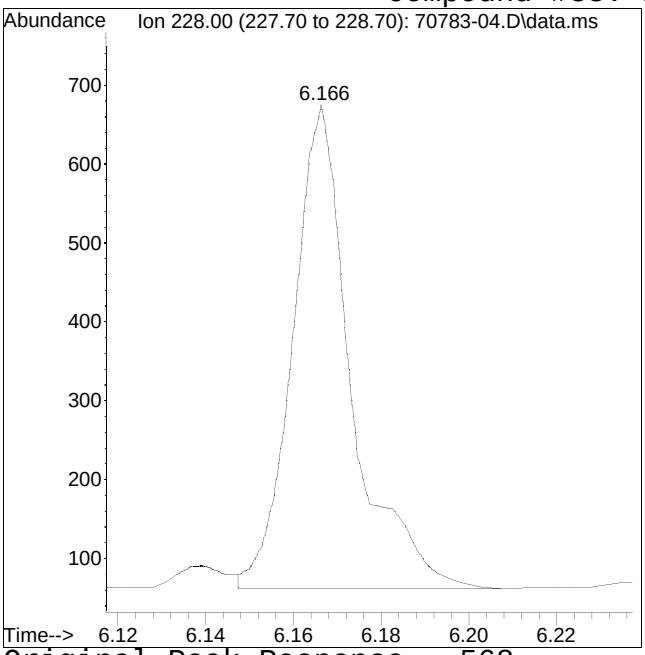
Ion	Ratio	Lower	Upper
228	100		
229	38.7	15.6	23.4#



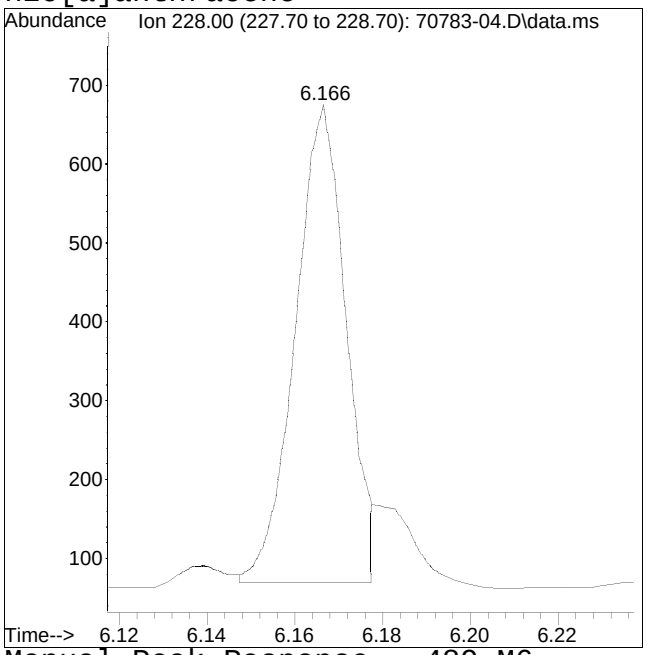
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-04.D Operator : SV125:dv
Date Inj'd : 12/7/2023 7:53 pm Instrument : SV125
Sample : L2370783-04,32,,ah Quant Date : 12/7/2023 8:15 pm

Compound #33: Benzo[a]anthracene



Original Peak Response = 568



Manual Peak Response = 489 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-05.D
Acq On : 07 Dec 2023 08:41 pm
Operator : SV125:dv
Sample : L2370783-05,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 08 07:20:09 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.189	152	39858	4000.000	ng/ml	0.00
Standard Area 1 = 35016			Recovery = 113.83%			
9) Naphthalene-d8	2.851	136	152344	4000.000	ng/ml	0.00
Standard Area 1 = 133973			Recovery = 113.71%			
18) Acenaphthene-d10	3.820	164	82794	4000.000	ng/ml	0.00
Standard Area 1 = 74318			Recovery = 111.41%			
23) Phenanthrene-d10	4.649	188	163407	4000.000	ng/ml	0.00
Standard Area 1 = 152800			Recovery = 106.94%			
32) Chrysene-d12	6.169	240	153405	4000.000	ng/ml	0.00
Standard Area 1 = 132050			Recovery = 116.17%			
37) Perylene-d12	7.311	264	193791	4000.000	ng/ml	0.00
Standard Area 1 = 149607			Recovery = 129.53%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.589	112	25000	2472.854	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 49.46%			
4) Phenol-d6	1.999	99	26344	2252.455	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 45.05%			
8) Nitrobenzene-d5	2.467	82	16930	1862.493	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 74.50%			
14) 2-Fluorobiphenyl	3.447	172	42600	1460.153	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 58.41%			
22) 2,4,6-Tribromophenol	4.259	330	10459	2479.130	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 49.58%			
31) 4-Terphenyl-d14	5.555	244	46163	1477.573	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 59.10%			
Target Compounds						Qvalue
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	2.861	128	364	9.519	ng/ml#	94
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	3.239	142	80	3.259	ng/ml	97
15) 2-Chloronaphthalene	0.000		0	N.D.		
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.		
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	
26) Pentachlorophenol	0.000		0	N.D.	d	

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-05.D
Acq On : 07 Dec 2023 08:41 pm
Operator : SV125:dv
Sample : L2370783-05,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 08 07:20:09 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	0.000		0		N.D.	d
28) Anthracene	0.000		0		N.D.	d
29) Fluoranthene	0.000		0		N.D.	d
30) Pyrene	0.000		0		N.D.	d
33) Benzo[a]anthracene	6.169	228	550M6	6.106	ng/ml	
35) Chrysene	0.000		0		N.D.	d
38) Benzo[b]fluoranthene	0.000		0		N.D.	d
39) Benzo[k]fluoranthene	0.000		0		N.D.	d
40) Benzo[a]pyrene	0.000		0		N.D.	d
41) Indeno[1,2,3-cd]pyrene	0.000		0		N.D.	d
42) Dibenzo[a,h]anthracene	0.000		0		N.D.	
43) Benzo[g,h,i]perylene	0.000		0		N.D.	d

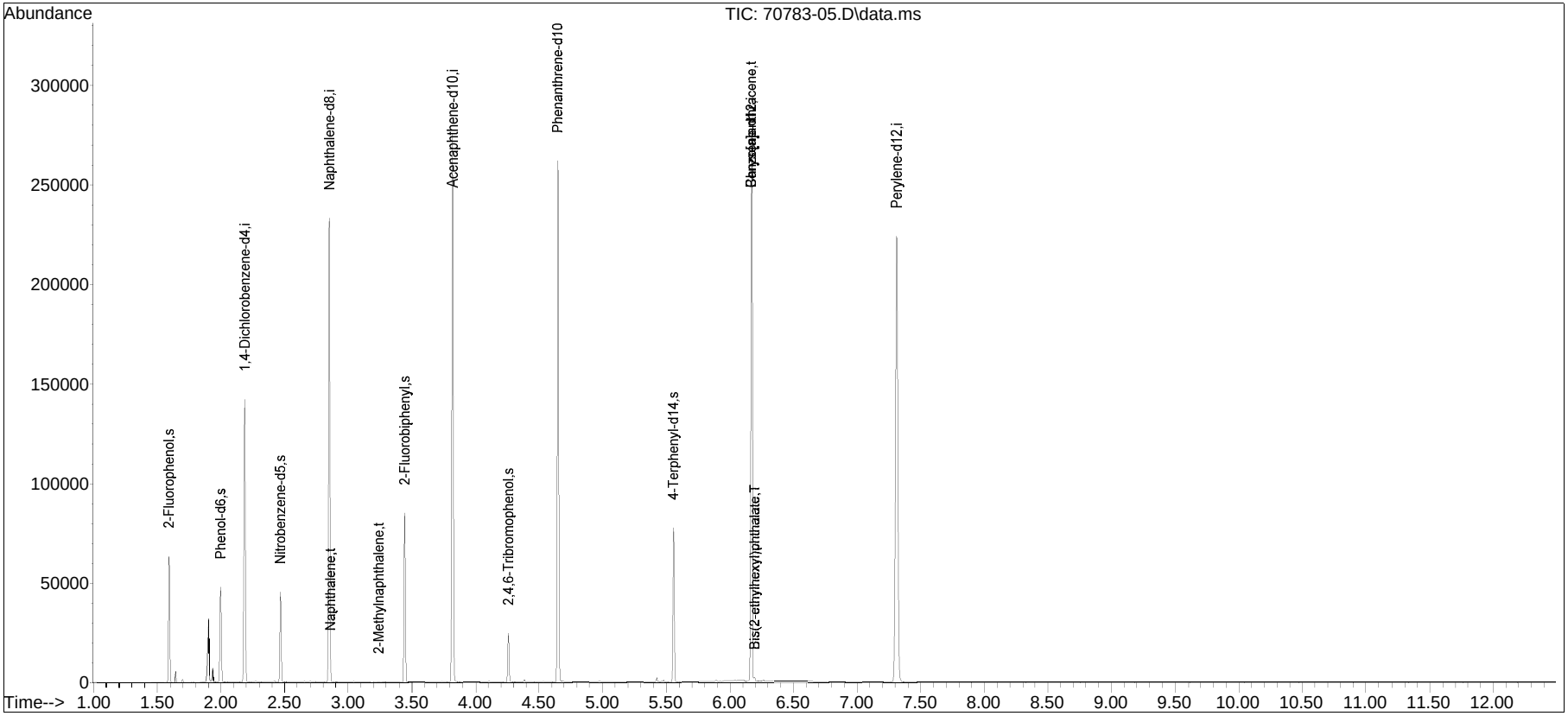
(#) = qualifier out of range (m) = manual integration (+) = signals summed

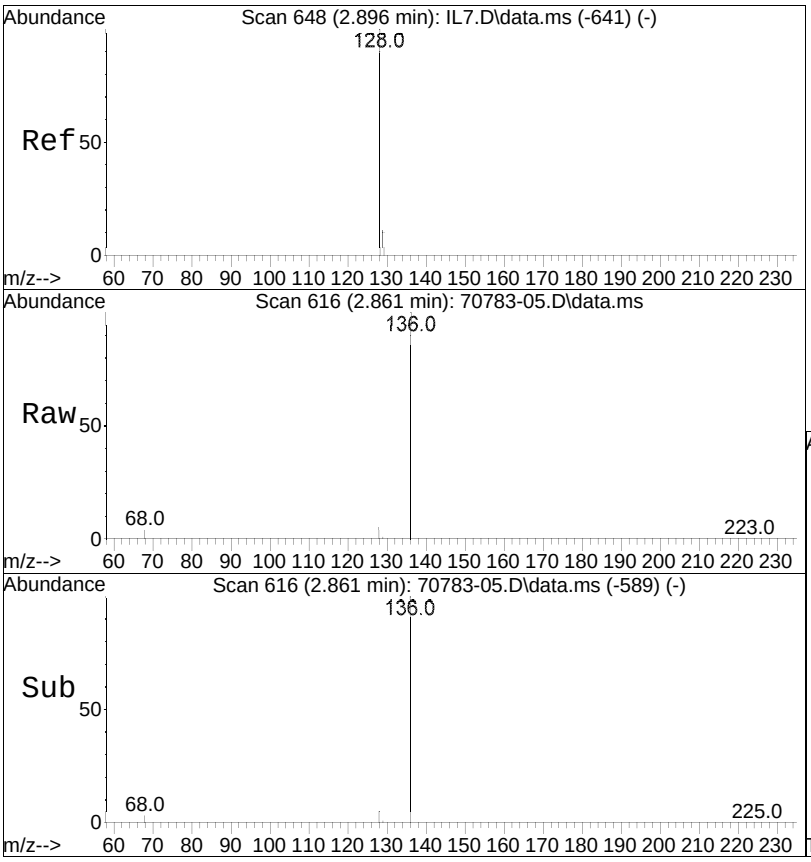
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-05.D
Acq On : 07 Dec 2023 08:41 pm
Operator : SV125:dv
Sample : L2370783-05,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 08 07:20:09 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedI\ccv1207b.D•

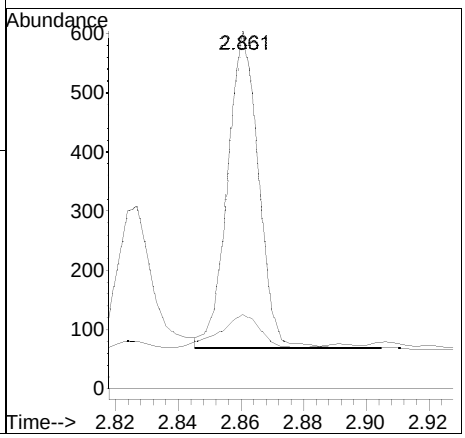


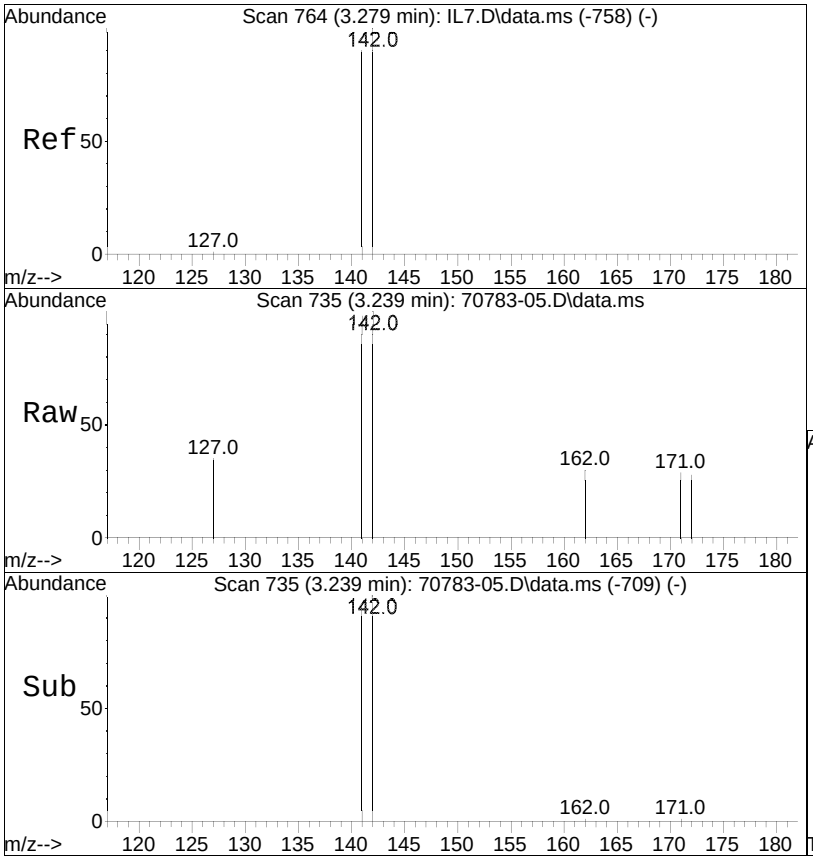


#10
Naphthalene
Concen: 9.52 ng/ml
RT: 2.861 min Scan# 616
Delta R.T. 0.001 min
Lab File: 70783-05.D
Acq: 07 Dec 2023 08:41 pm

Tgt Ion:128 Resp: 364

Ion	Ratio	Lower	Upper
128	100		
129	13.2	8.8	13.2
127	0.0	0.0	0.0

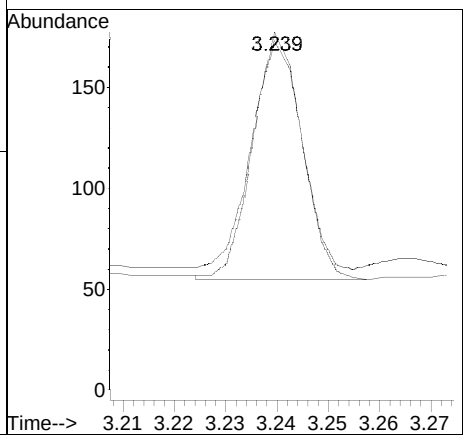


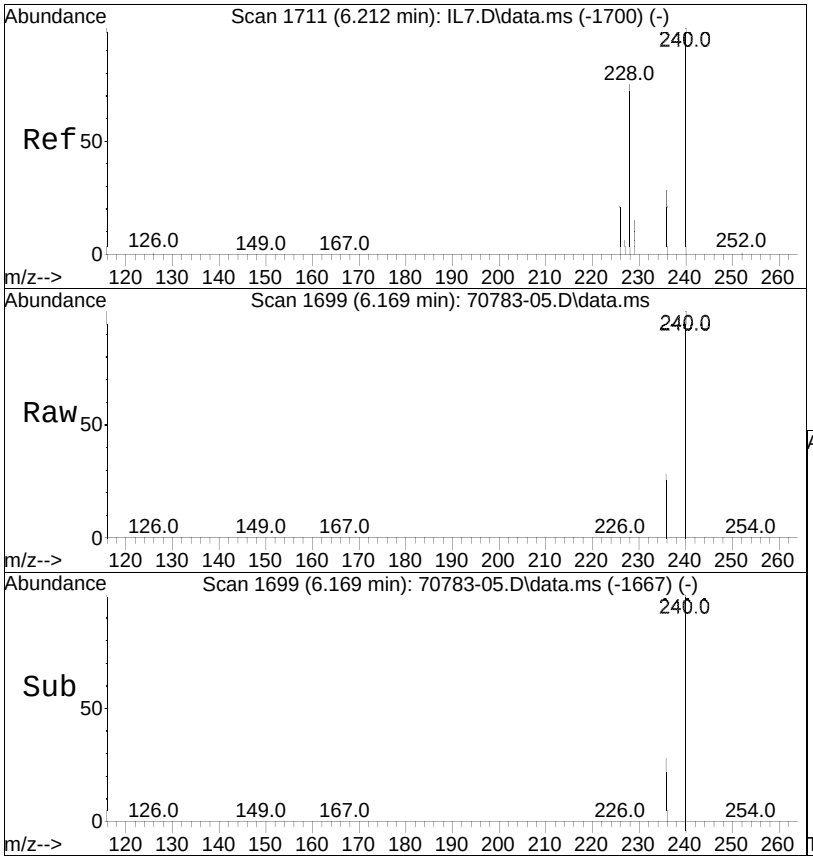


#12
2-Methylnaphthalene
Concen: 3.26 ng/ml
RT: 3.239 min Scan# 735
Delta R.T. -0.002 min
Lab File: 70783-05.D
Acq: 07 Dec 2023 08:41 pm

Tgt Ion:142 Resp: 80

Ion	Ratio	Lower	Upper
142	100		
141	95.0	73.6	110.4

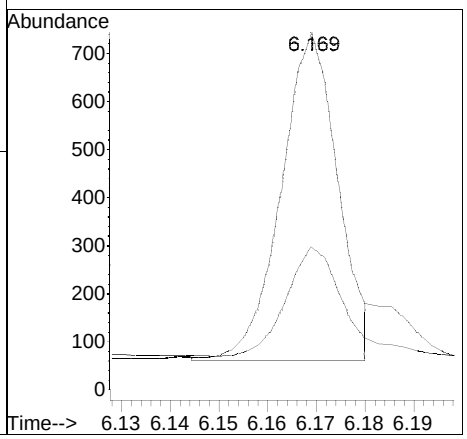




#33
Benzo[a]anthracene
Concen: 6.11 ng/ml M6
RT: 6.169 min Scan# 1699
Delta R.T. 0.007 min
Lab File: 70783-05.D
Acq: 07 Dec 2023 08:41 pm

Tgt Ion:228 Resp: 550

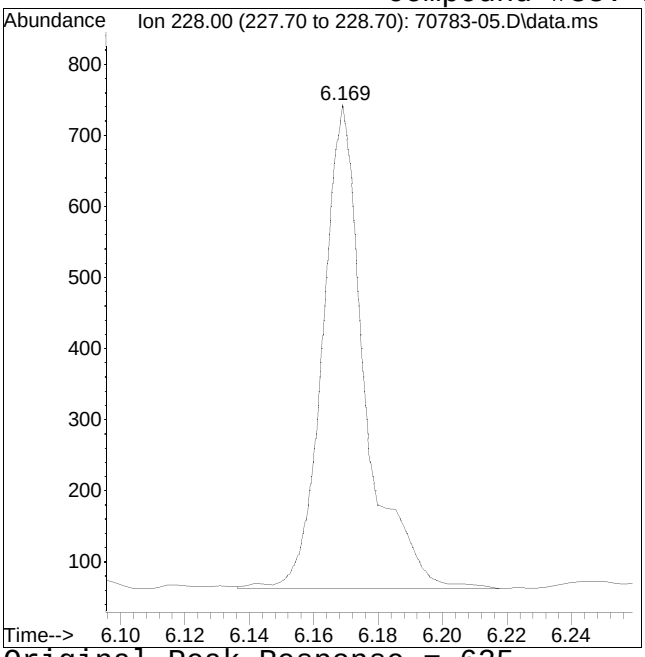
Ion	Ratio	Lower	Upper
228	100		
229	34.9	15.6	23.4#



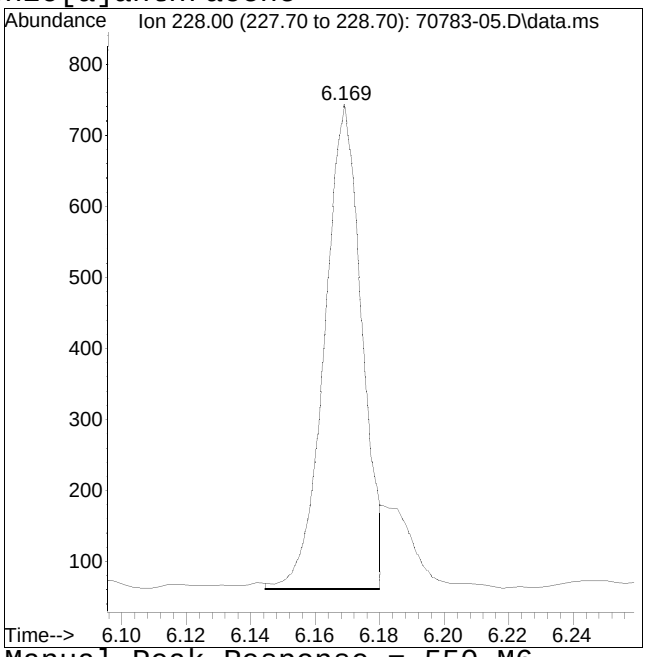
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-05.D Operator : SV125:dv
Date Inj'd : 12/7/2023 8:41 pm Instrument : SV125
Sample : L2370783-05,32,,ah Quant Date : 12/7/2023 9:04 pm

Compound #33: Benzo[a]anthracene



Original Peak Response = 625



Manual Peak Response = 550 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-06.D
Acq On : 07 Dec 2023 08:57 pm
Operator : SV125:dv
Sample : L2370783-06,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 08 07:21:05 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.186	152	46991	4000.000	ng/ml	0.00
Standard Area 1 = 35016			Recovery = 134.20%			
9) Naphthalene-d8	2.849	136	178320	4000.000	ng/ml	0.00
Standard Area 1 = 133973			Recovery = 133.10%			
18) Acenaphthene-d10	3.820	164	96673	4000.000	ng/ml	0.00
Standard Area 1 = 74318			Recovery = 130.08%			
23) Phenanthrene-d10	4.649	188	187070	4000.000	ng/ml	0.00
Standard Area 1 = 152800			Recovery = 122.43%			
32) Chrysene-d12	6.169	240	183568	4000.000	ng/ml	0.00
Standard Area 1 = 132050			Recovery = 139.01%			
37) Perylene-d12	7.310	264	231545	4000.000	ng/ml	0.00
Standard Area 1 = 149607			Recovery = 154.77%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.589	112	26618	2233.236	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 44.66%			
4) Phenol-d6	1.996	99	27002	1958.263	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 39.17%			
8) Nitrobenzene-d5	2.465	82	16675	1555.981	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 62.24%			
14) 2-Fluorobiphenyl	3.444	172	42303	1238.754	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 49.55%			
22) 2,4,6-Tribromophenol	4.260	330	11213	2282.293	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 45.65%			
31) 4-Terphenyl-d14	5.555	244	45149	1262.320	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 50.49%			

Target Compounds			Qvalue
7) Hexachloroethane	0.000	0	N.D.
10) Naphthalene	0.000	0	N.D. d
11) Hexachlorobutadiene	0.000	0	N.D.
12) 2-Methylnaphthalene	0.000	0	N.D. d
15) 2-Chloronaphthalene	0.000	0	N.D. d
17) Acenaphthylene	0.000	0	N.D. d
19) Acenaphthene	0.000	0	N.D. d
21) Fluorene	0.000	0	N.D. d
25) Hexachlorobenzene	0.000	0	N.D.
26) Pentachlorophenol	0.000	0	N.D. d

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-06.D
Acq On : 07 Dec 2023 08:57 pm
Operator : SV125:dv
Sample : L2370783-06,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 08 07:21:05 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	6.169	228	649M6	5.945	ng/ml	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

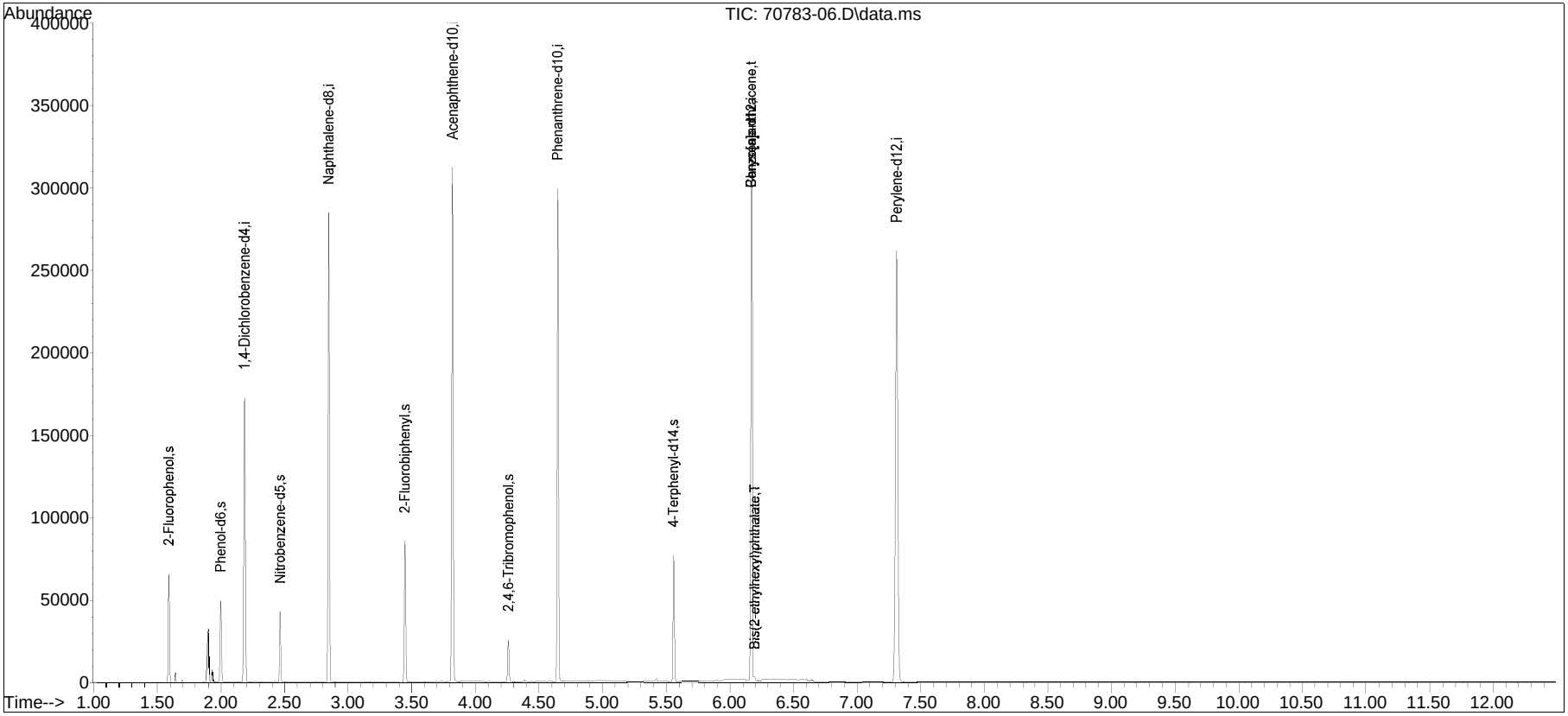
(#) = qualifier out of range (m) = manual integration (+) = signals summed

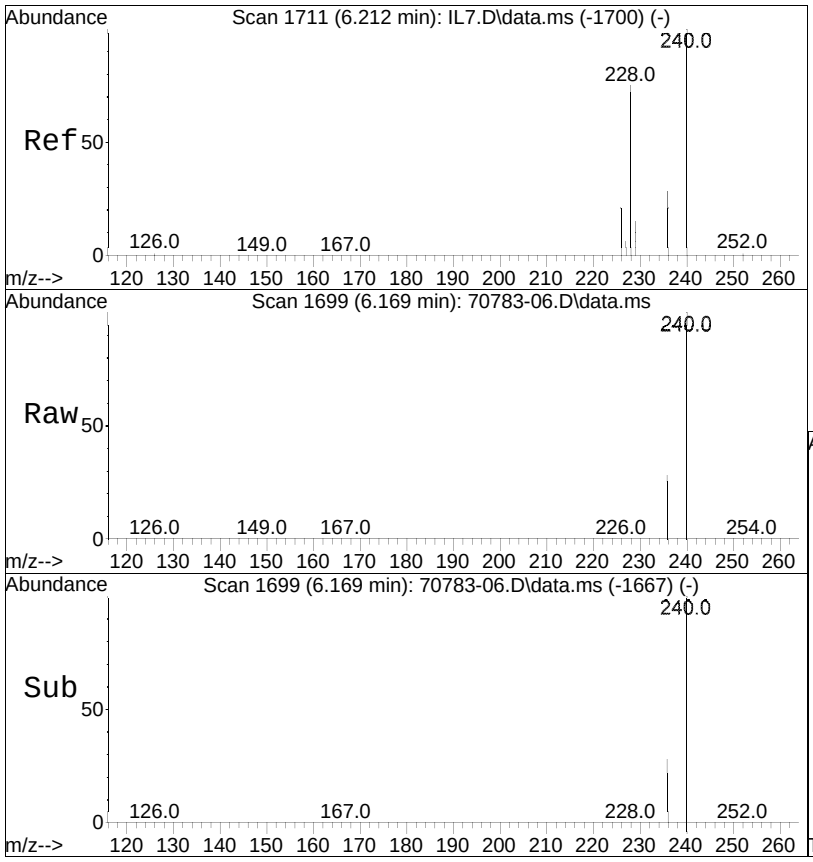
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-06.D
Acq On : 07 Dec 2023 08:57 pm
Operator : SV125:dv
Sample : L2370783-06,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 08 07:21:05 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedI\ccv1207b.D•

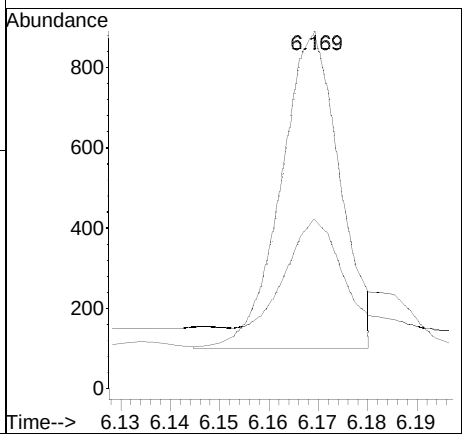




#33
Benzo[a]anthracene
Concen: 5.95 ng/ml M6
RT: 6.169 min Scan# 1699
Delta R.T. 0.007 min
Lab File: 70783-06.D
Acq: 07 Dec 2023 08:57 pm

Tgt Ion:228 Resp: 649

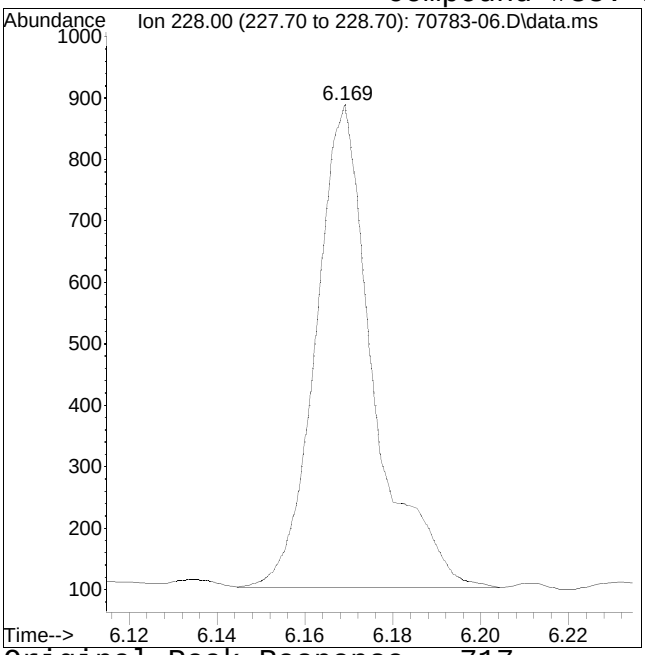
Ion	Ratio	Lower	Upper
228	100		
229	38.5	15.6	23.4#



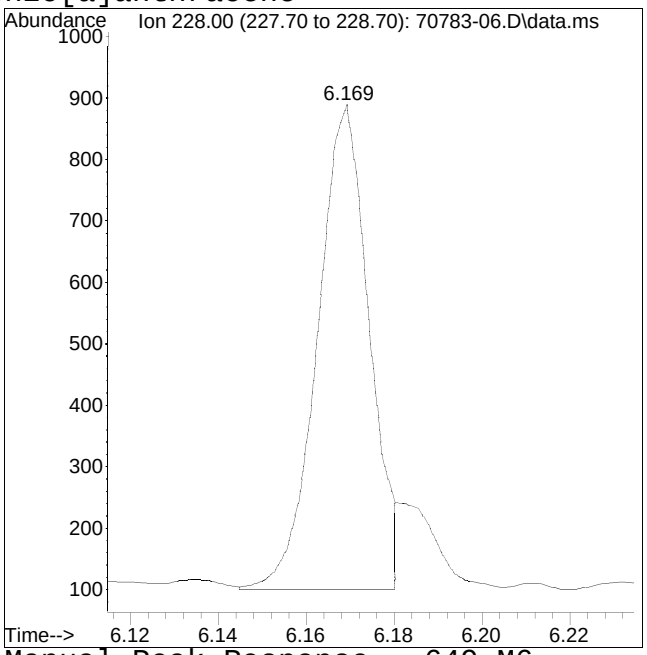
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-06.D Operator : SV125:dv
Date Inj'd : 12/7/2023 8:57 pm Instrument : SV125
Sample : L2370783-06,32,,ah Quant Date : 12/7/2023 9:20 pm

Compound #33: Benzo[a]anthracene



Original Peak Response = 717



Manual Peak Response = 649 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-07.D
Acq On : 07 Dec 2023 09:13 pm
Operator : SV125:dv
Sample : L2370783-07,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Dec 08 07:21:45 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.191	152	36310	4000.000	ng/ml	0.00
Standard Area 1 = 35016			Recovery = 103.70%			
9) Naphthalene-d8	2.851	136	138683	4000.000	ng/ml	0.00
Standard Area 1 = 133973			Recovery = 103.52%			
18) Acenaphthene-d10	3.819	164	76145	4000.000	ng/ml	0.00
Standard Area 1 = 74318			Recovery = 102.46%			
23) Phenanthrene-d10	4.648	188	151467	4000.000	ng/ml	0.00
Standard Area 1 = 152800			Recovery = 99.13%			
32) Chrysene-d12	6.166	240	147600	4000.000	ng/ml	0.00
Standard Area 1 = 132050			Recovery = 111.78%			
37) Perylene-d12	7.306	264	187769	4000.000	ng/ml	0.00
Standard Area 1 = 149607			Recovery = 125.51%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.592	112	27236	2957.270	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 59.15%			
4) Phenol-d6	2.001	99	26185	2457.628	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 49.15%			
8) Nitrobenzene-d5	2.467	82	16759	2023.835	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 80.95%			
14) 2-Fluorobiphenyl	3.447	172	42225	1589.866	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 63.59%			
22) 2,4,6-Tribromophenol	4.259	330	12406	3169.649	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 63.39%			
31) 4-Terphenyl-d14	5.555	244	45886	1584.484	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 63.38%			
Target Compounds						Qvalue
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	2.860	128	411	11.806	ng/ml#	95
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.		
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.		
19) Acenaphthene	0.000		0	N.D.		
21) Fluorene	0.000		0	N.D.		
25) Hexachlorobenzene	0.000		0	N.D.		
26) Pentachlorophenol	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-07.D
Acq On : 07 Dec 2023 09:13 pm
Operator : SV125:dv
Sample : L2370783-07,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Dec 08 07:21:45 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	0.000		0		N.D.	d
28) Anthracene	0.000		0		N.D.	d
29) Fluoranthene	0.000		0		N.D.	d
30) Pyrene	0.000		0		N.D.	d
33) Benzo[a]anthracene	6.166	228	541M6	6.365	ng/ml	
35) Chrysene	0.000		0		N.D.	d
38) Benzo[b]fluoranthene	0.000		0		N.D.	d
39) Benzo[k]fluoranthene	0.000		0		N.D.	d
40) Benzo[a]pyrene	0.000		0		N.D.	d
41) Indeno[1,2,3-cd]pyrene	0.000		0		N.D.	d
42) Dibenzo[a,h]anthracene	0.000		0		N.D.	
43) Benzo[g,h,i]perylene	0.000		0		N.D.	d

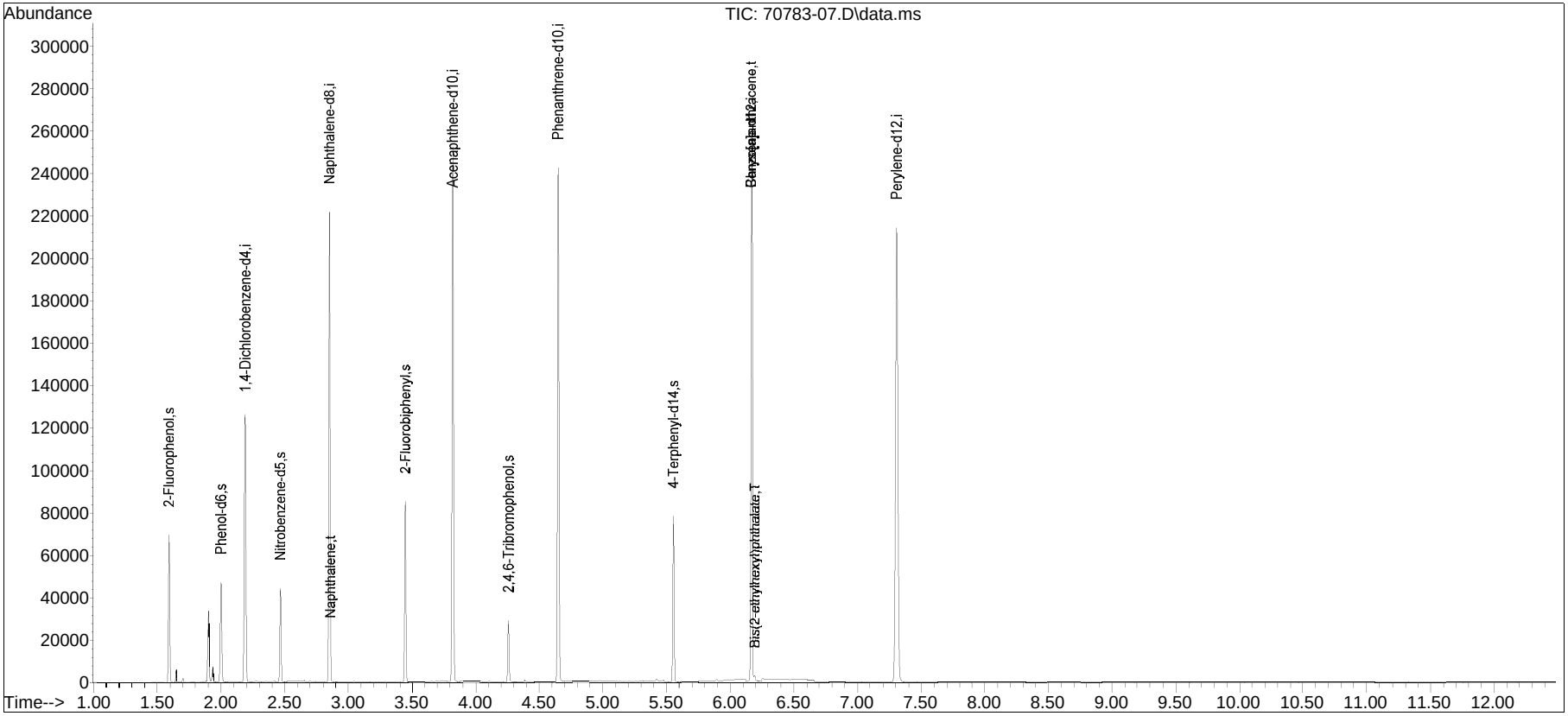
(#) = qualifier out of range (m) = manual integration (+) = signals summed

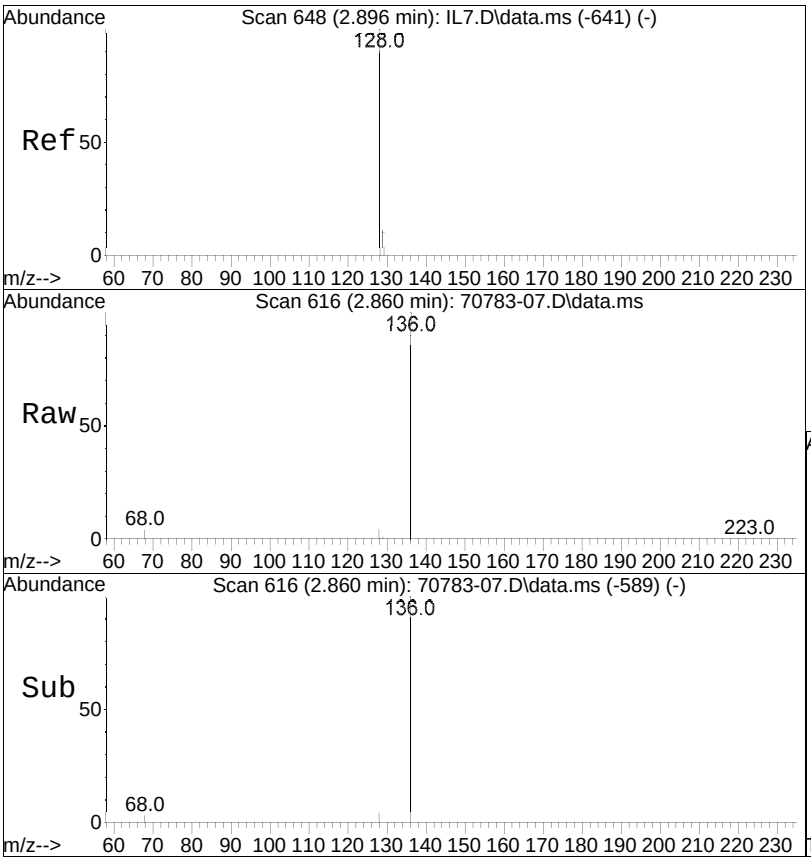
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-07.D
Acq On : 07 Dec 2023 09:13 pm
Operator : SV125:dv
Sample : L2370783-07,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Dec 08 07:21:45 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedI\ccv1207b.D•

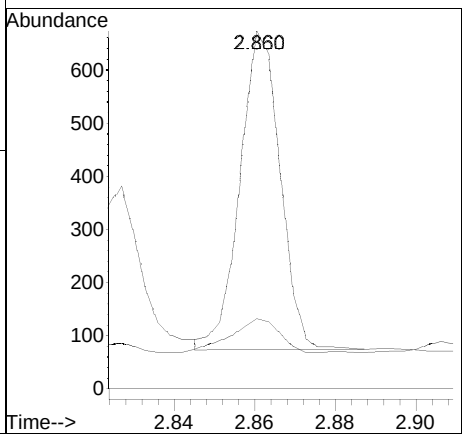


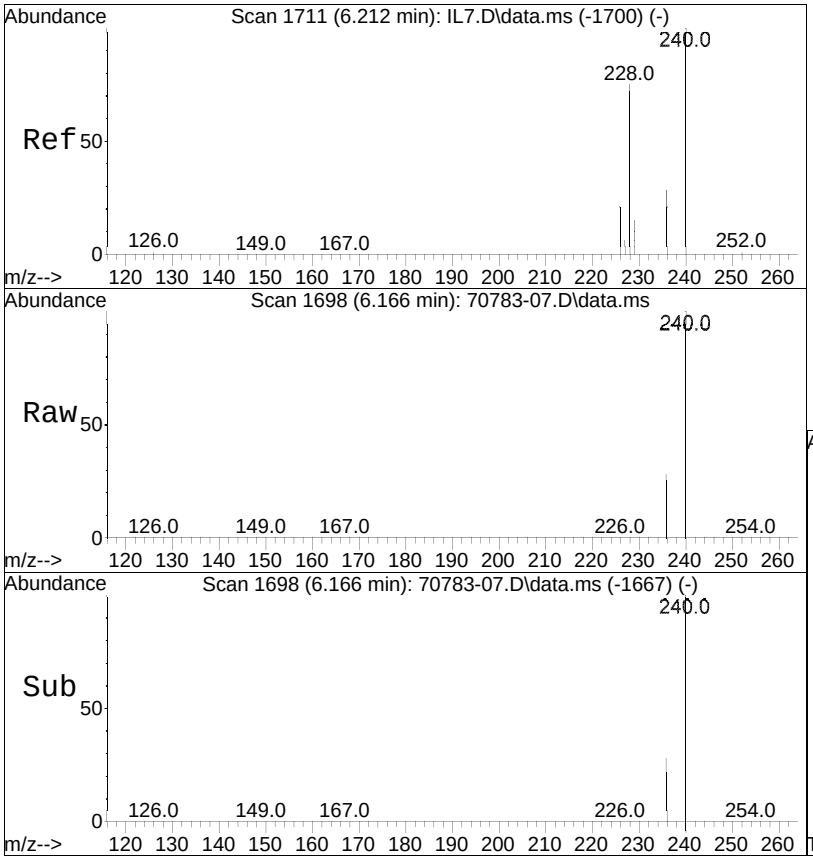


#10
Naphthalene
Concen: 11.81 ng/ml
RT: 2.860 min Scan# 616
Delta R.T. 0.001 min
Lab File: 70783-07.D
Acq: 07 Dec 2023 09:13 pm

Tgt Ion:128 Resp: 411

Ion	Ratio	Lower	Upper
128	100		
129	12.9	8.8	13.2
127	0.0	0.0	0.0

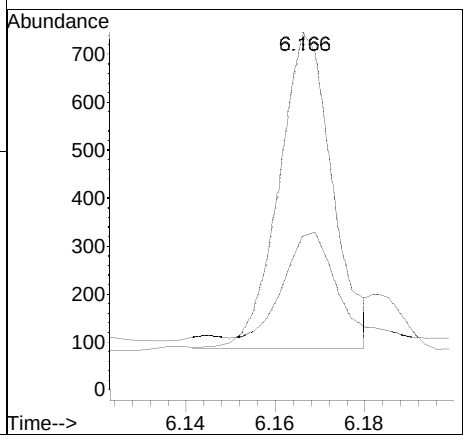




#33
Benzo[a]anthracene
Concen: 6.36 ng/ml M6
RT: 6.166 min Scan# 1698
Delta R.T. 0.004 min
Lab File: 70783-07.D
Acq: 07 Dec 2023 09:13 pm

Tgt Ion:228 Resp: 541

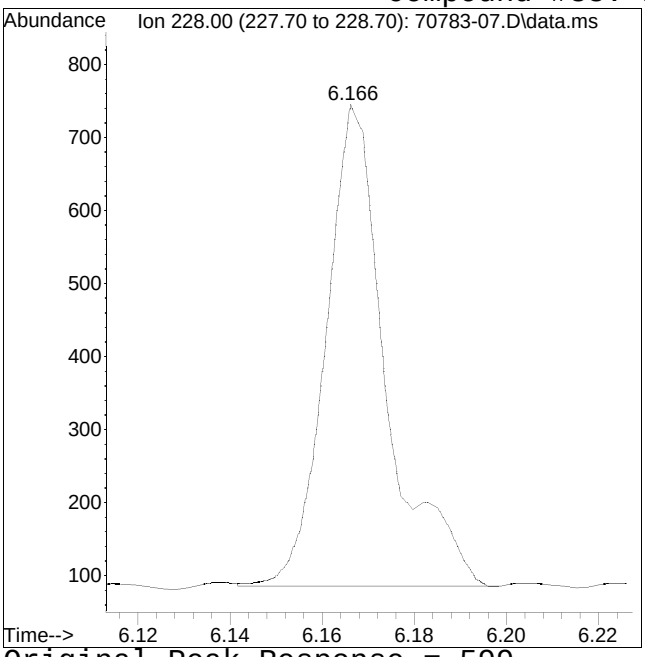
Ion	Ratio	Lower	Upper
228	100		
229	34.2	15.6	23.4#



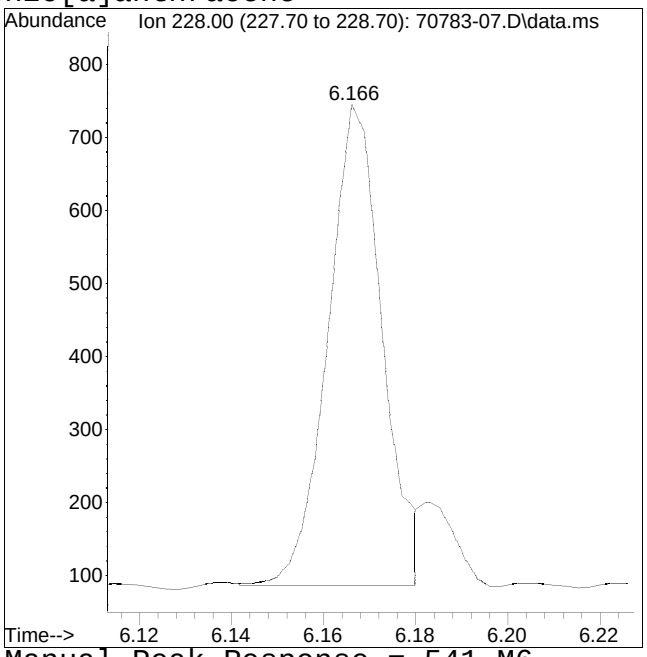
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-07.D Operator : SV125:dv
Date Inj'd : 12/7/2023 9:13 pm Instrument : SV125
Sample : L2370783-07,32,,ah Quant Date : 12/7/2023 9:36 pm

Compound #33: Benzo[a]anthracene



Original Peak Response = 599



Manual Peak Response = 541 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-08.D
Acq On : 07 Dec 2023 09:29 pm
Operator : SV125:dv
Sample : L2370783-08,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Dec 08 07:22:22 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.190	152	41694	4000.000	ng/ml	0.00
Standard Area 1 = 35016			Recovery = 119.07%			
9) Naphthalene-d8	2.851	136	159214	4000.000	ng/ml	0.00
Standard Area 1 = 133973			Recovery = 118.84%			
18) Acenaphthene-d10	3.819	164	87262	4000.000	ng/ml	0.00
Standard Area 1 = 74318			Recovery = 117.42%			
23) Phenanthrene-d10	4.651	188	168973	4000.000	ng/ml	0.00
Standard Area 1 = 152800			Recovery = 110.58%			
32) Chrysene-d12	6.168	240	157747	4000.000	ng/ml	0.00
Standard Area 1 = 132050			Recovery = 119.46%			
37) Perylene-d12	7.306	264	200136	4000.000	ng/ml	0.00
Standard Area 1 = 149607			Recovery = 133.77%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.592	112	31085	2939.350	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 58.79%			
4) Phenol-d6	2.000	99	31205	2550.589	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 51.01%			
8) Nitrobenzene-d5	2.467	82	18428	1938.018	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 77.52%			
14) 2-Fluorobiphenyl	3.446	172	47035	1542.602	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 61.70%			
22) 2,4,6-Tribromophenol	4.259	330	13504	3016.300	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 60.33%			
31) 4-Terphenyl-d14	5.554	244	46802	1448.681	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 57.95%			

Target Compounds			Qvalue
7) Hexachloroethane	0.000	0	N.D.
10) Naphthalene	0.000	0	N.D. d
11) Hexachlorobutadiene	0.000	0	N.D.
12) 2-Methylnaphthalene	0.000	0	N.D.
15) 2-Chloronaphthalene	0.000	0	N.D.
17) Acenaphthylene	0.000	0	N.D. d
19) Acenaphthene	0.000	0	N.D.
21) Fluorene	0.000	0	N.D. d
25) Hexachlorobenzene	0.000	0	N.D.
26) Pentachlorophenol	0.000	0	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-08.D
Acq On : 07 Dec 2023 09:29 pm
Operator : SV125:dv
Sample : L2370783-08,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Dec 08 07:22:22 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	0.000		0	N.D.	d	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.		
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

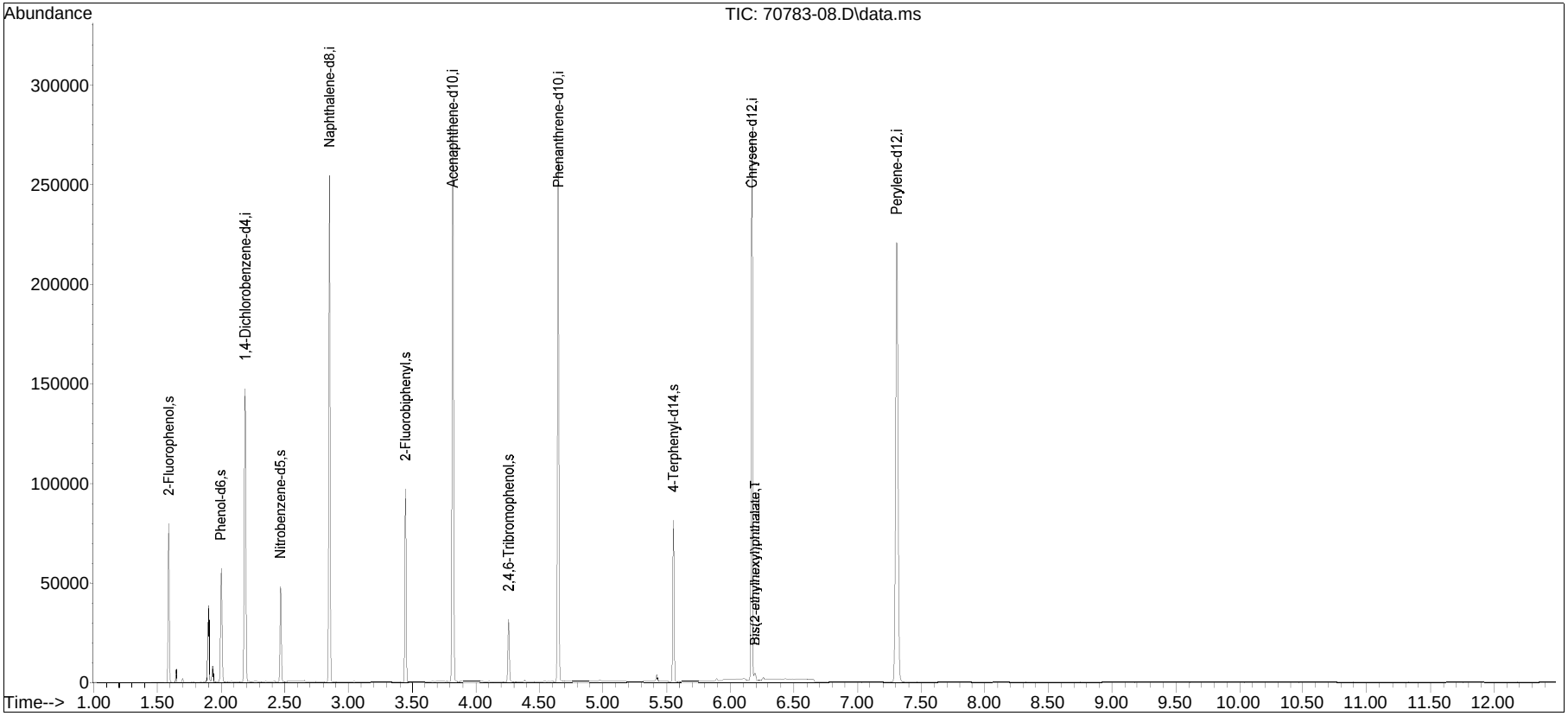
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-08.D
Acq On : 07 Dec 2023 09:29 pm
Operator : SV125:dv
Sample : L2370783-08,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Dec 08 07:22:22 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedI\ccv1207b.D•



Manual Integration Report

Data Path	: I:\8270SIM\SV125\231207bLVQ	Method	: SIM-LVI_231026_sv125.M
Data File	: 70783-08.D	Operator	: SV125:dv
Date Inj'd	: 12/7/2023 9:29 pm	Instrument	: SV125
Sample	: L2370783-08,32,,ah	Quant Date	: 12/7/2023 9:53 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-09.D
Acq On : 07 Dec 2023 09:45 pm
Operator : SV125:dv
Sample : L2370783-09,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Dec 08 07:24:21 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.187	152	37192	4000.000	ng/ml	0.00
Standard Area 1 = 35016			Recovery = 106.21%			
9) Naphthalene-d8	2.849	136	142119	4000.000	ng/ml	0.00
Standard Area 1 = 133973			Recovery = 106.08%			
18) Acenaphthene-d10	3.821	164	76448	4000.000	ng/ml	0.00
Standard Area 1 = 74318			Recovery = 102.87%			
23) Phenanthrene-d10	4.649	188	147858	4000.000	ng/ml	0.00
Standard Area 1 = 152800			Recovery = 96.77%			
32) Chrysene-d12	6.166	240	138305	4000.000	ng/ml	0.00
Standard Area 1 = 132050			Recovery = 104.74%			
37) Perylene-d12	7.308	264	174421	4000.000	ng/ml	0.00
Standard Area 1 = 149607			Recovery = 116.59%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.592	112	20092	2129.843	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 42.60%			
4) Phenol-d6	2.001	99	23708	2172.377	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 43.45%			
8) Nitrobenzene-d5	2.468	82	16065	1894.019	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 75.76%			
14) 2-Fluorobiphenyl	3.445	172	40613	1492.200	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 59.69%			
22) 2,4,6-Tribromophenol	4.260	330	7041	1824.262	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 36.49%			
31) 4-Terphenyl-d14	5.556	244	41909	1482.477	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 59.30%			
Target Compounds						Qvalue
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	2.861	128	869	24.359	ng/ml#	97
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	3.240	142	190	8.297	ng/ml	98
15) 2-Chloronaphthalene	0.000		0	N.D.		
17) Acenaphthylene	0.000		0	N.D. d		
19) Acenaphthene	0.000		0	N.D. d		
21) Fluorene	0.000		0	N.D. d		
25) Hexachlorobenzene	0.000		0	N.D. d		
26) Pentachlorophenol	0.000		0	N.D. d		

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-09.D
Acq On : 07 Dec 2023 09:45 pm
Operator : SV125:dv
Sample : L2370783-09,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Dec 08 07:24:21 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	4.661	178	199M6	5.395	ng/ml	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	6.166	228	497M6	6.133	ng/ml	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
42) Dibenzo[a,h]anthracene	0.000		0	N.D.		
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

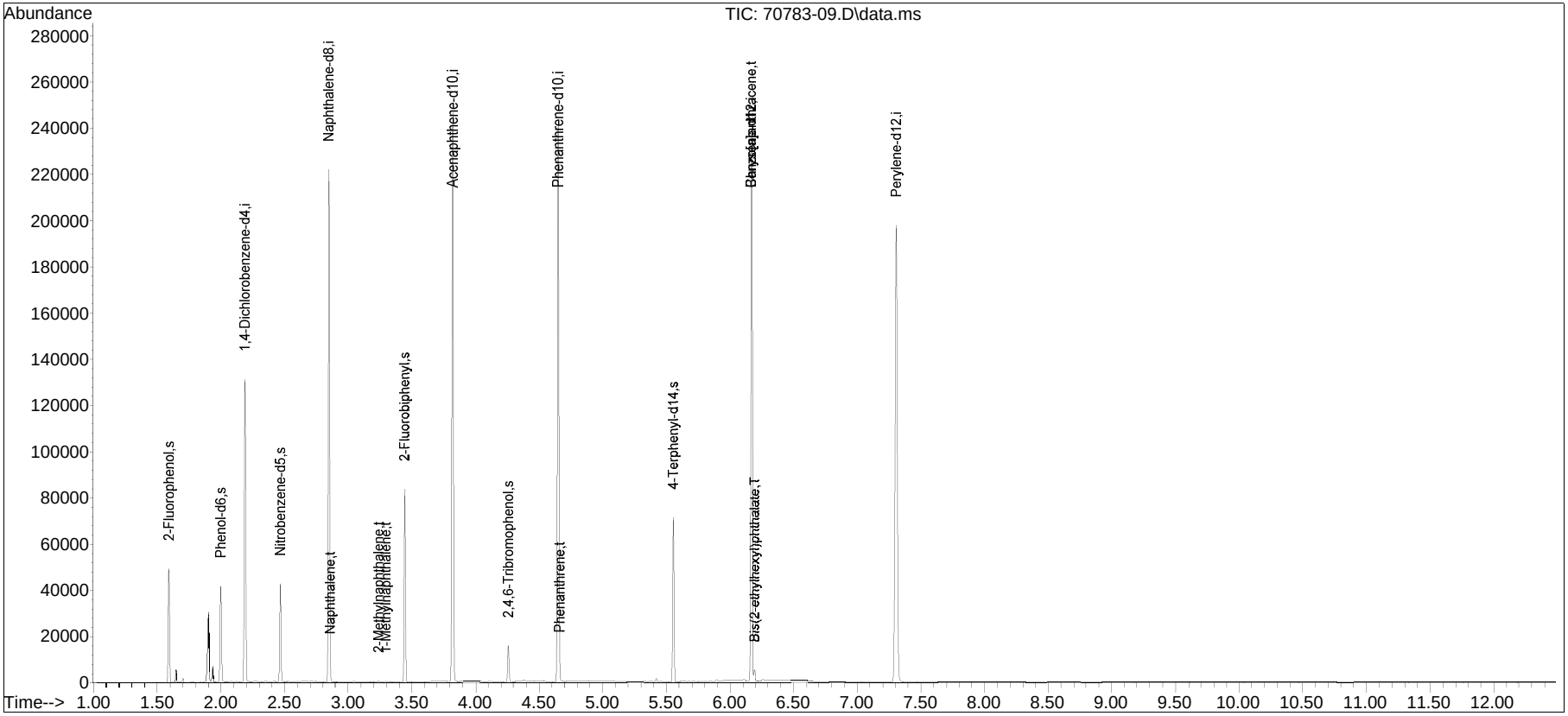
(#) = qualifier out of range (m) = manual integration (+) = signals summed

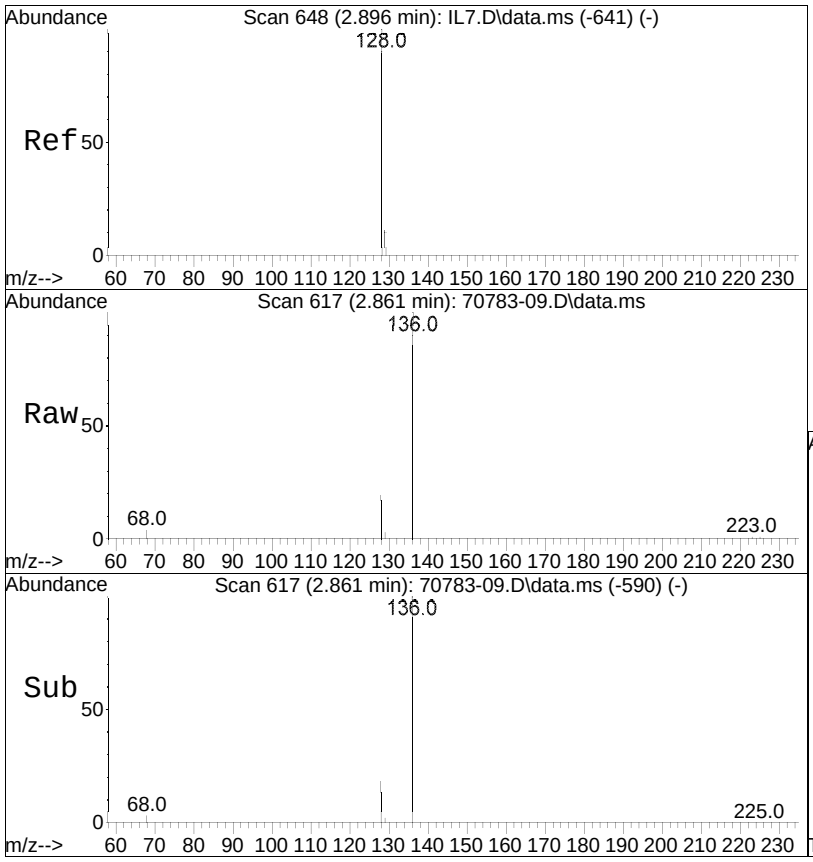
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-09.D
Acq On : 07 Dec 2023 09:45 pm
Operator : SV125:dv
Sample : L2370783-09,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Dec 08 07:24:21 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedI\ccv1207b.D•

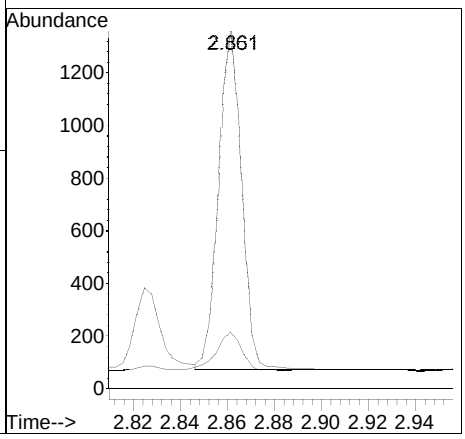


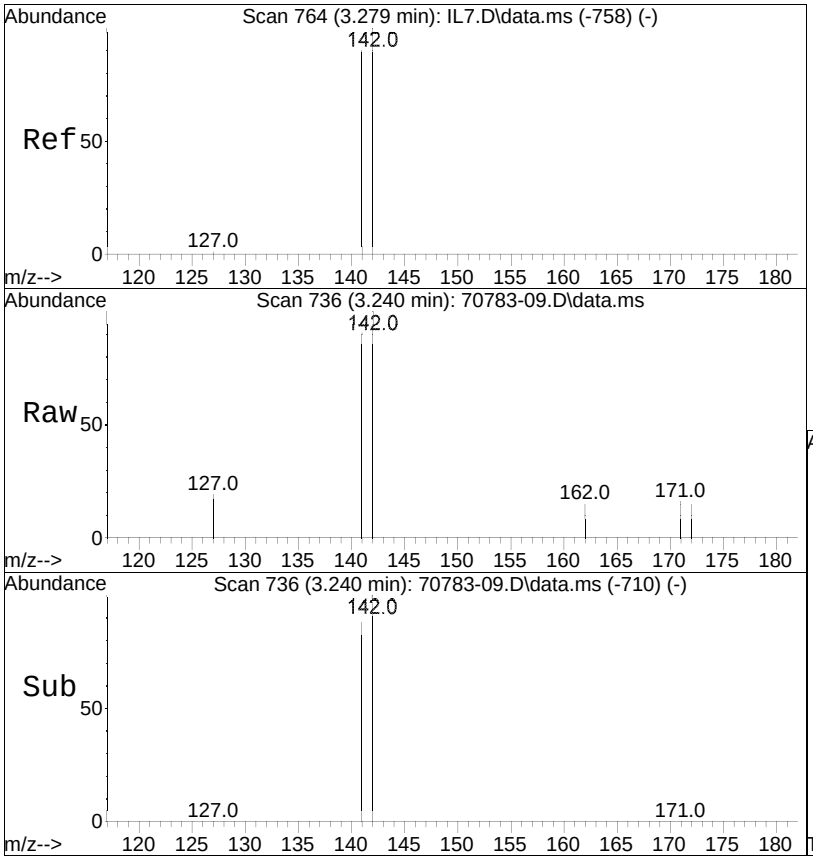


#10
Naphthalene
Concen: 24.36 ng/ml
RT: 2.861 min Scan# 617
Delta R.T. 0.002 min
Lab File: 70783-09.D
Acq: 07 Dec 2023 09:45 pm

Tgt Ion:128 Resp: 869

Ion	Ratio	Lower	Upper
128	100		
129	12.2	8.8	13.2
127	0.0	0.0	0.0

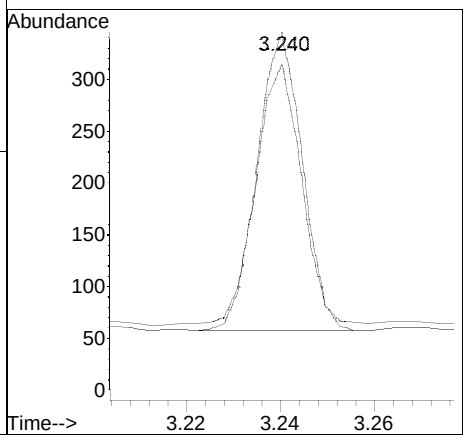


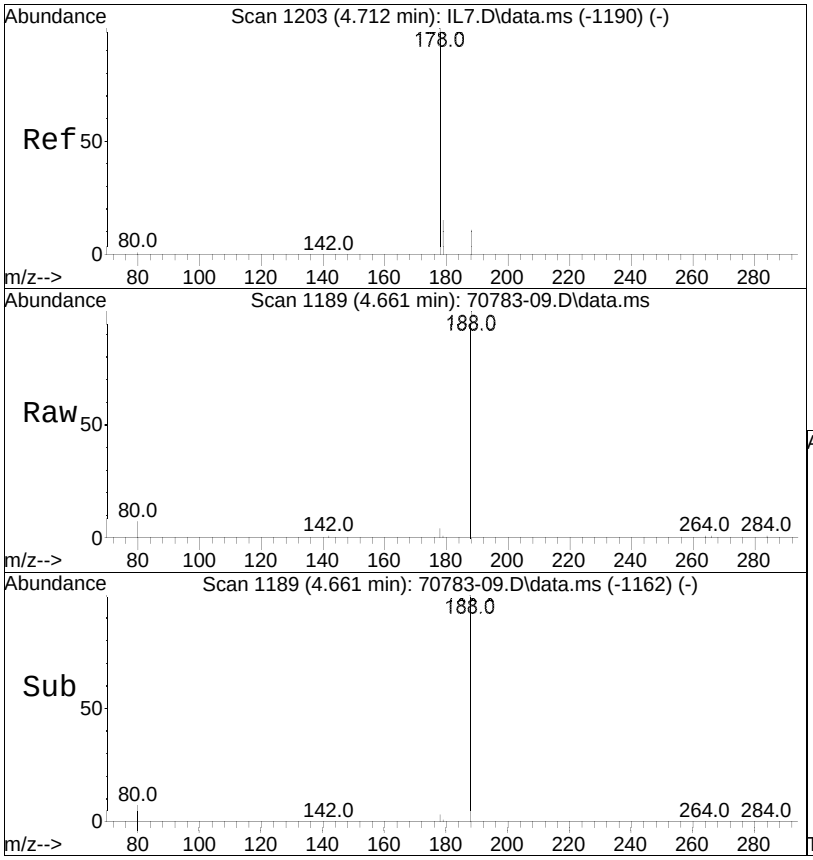


#12
2-Methylnaphthalene
Concen: 8.30 ng/ml
RT: 3.240 min Scan# 736
Delta R.T. -0.001 min
Lab File: 70783-09.D
Acq: 07 Dec 2023 09:45 pm

Tgt Ion:142 Resp: 190

Ion	Ratio	Lower	Upper
142	100		
141	90.0	73.6	110.4

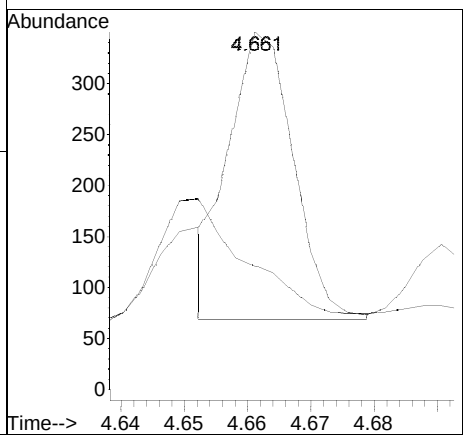


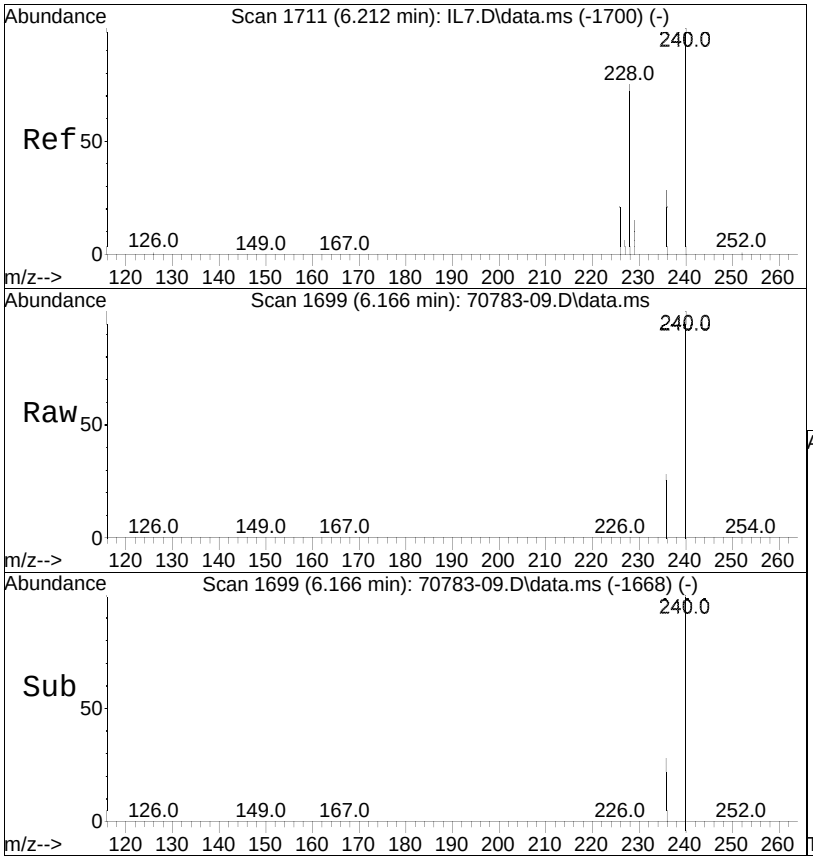


#27
Phenanthrene
Concen: 5.39 ng/ml M6
RT: 4.661 min Scan# 1189
Delta R.T. -0.001 min
Lab File: 70783-09.D
Acq: 07 Dec 2023 09:45 pm

Tgt Ion:178 Resp: 199

Ion	Ratio	Lower	Upper
178	100		
179	13.6	12.3	18.5

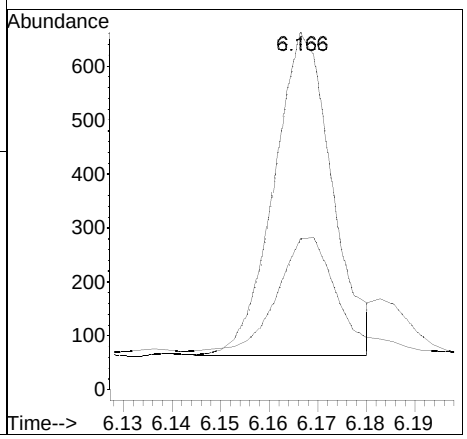




#33
Benzo[a]anthracene
Concen: 6.13 ng/ml M6
RT: 6.166 min Scan# 1699
Delta R.T. 0.004 min
Lab File: 70783-09.D
Acq: 07 Dec 2023 09:45 pm

Tgt Ion:228 Resp: 497

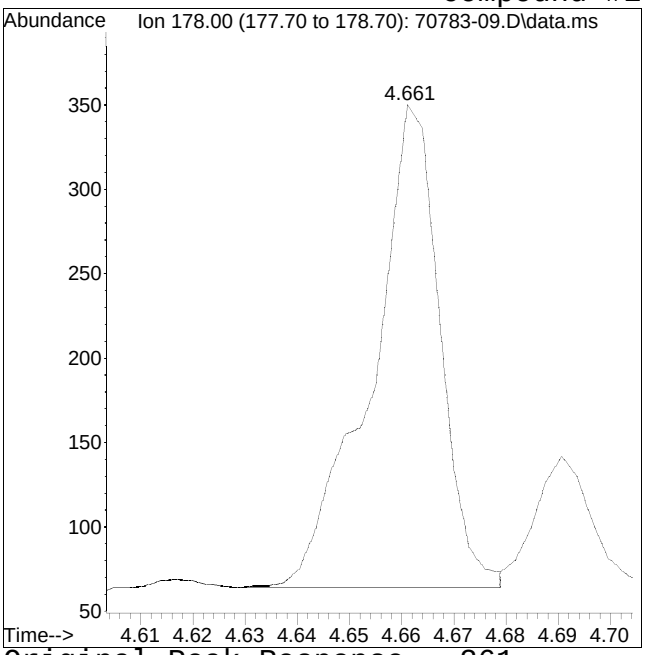
Ion	Ratio	Lower	Upper
228	100		
229	36.6	15.6	23.4#



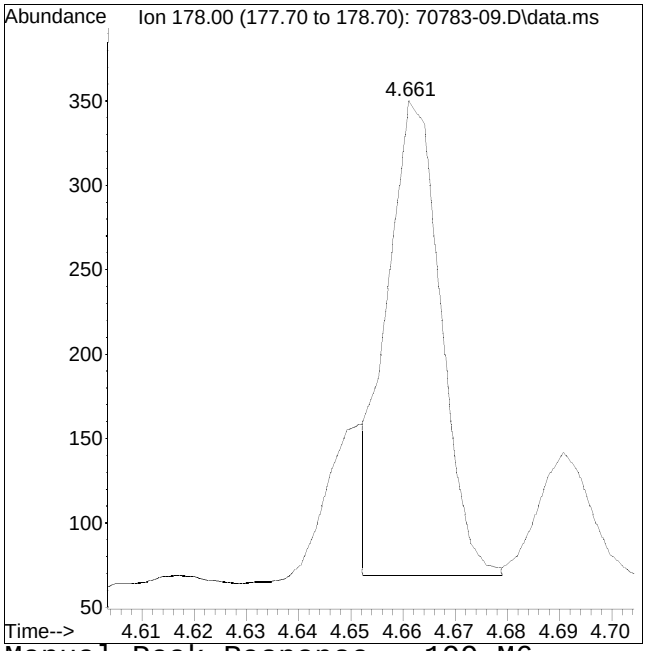
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-09.D Operator : SV125:dv
Date Inj'd : 12/7/2023 9:45 pm Instrument : SV125
Sample : L2370783-09,32,,ah Quant Date : 12/7/2023 10:09 pm

Compound #27: Phenanthrene



Original Peak Response = 261



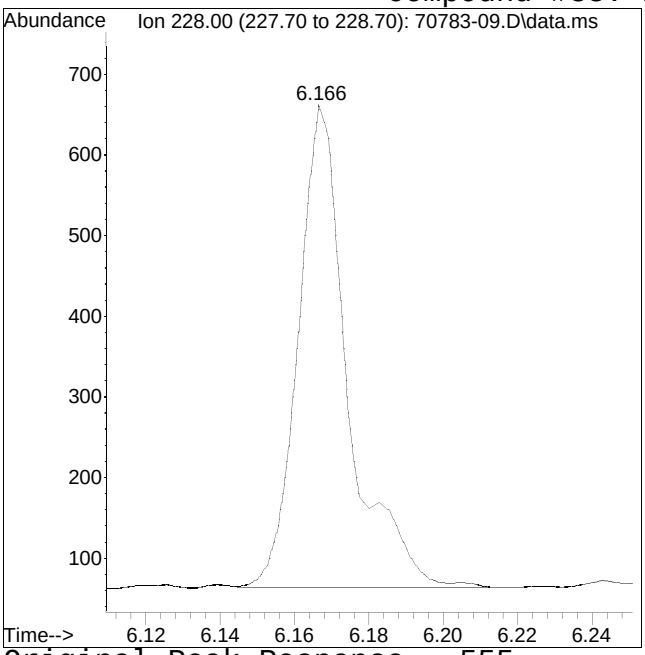
Manual Peak Response = 199 M6

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

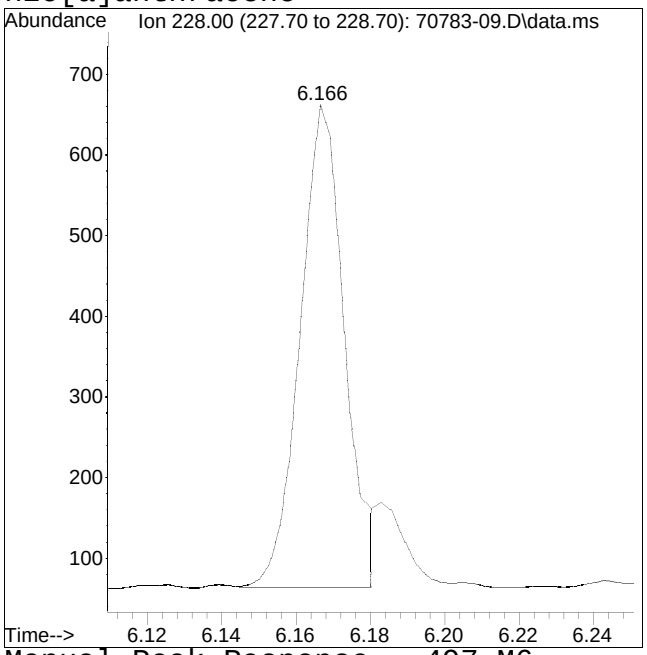
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-09.D Operator : SV125:dv
Date Inj'd : 12/7/2023 9:45 pm Instrument : SV125
Sample : L2370783-09,32,,ah Quant Date : 12/7/2023 10:09 pm

Compound #33: Benzo[a]anthracene



Original Peak Response = 555



Manual Peak Response = 497 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-11.D
Acq On : 07 Dec 2023 10:00 pm
Operator : SV125:dv
Sample : L2370783-11,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Dec 08 07:25:29 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.189	152	32279	4000.000	ng/ml	0.00
Standard Area 1 = 35016			Recovery = 92.18%			
9) Naphthalene-d8	2.849	136	120875	4000.000	ng/ml	0.00
Standard Area 1 = 133973			Recovery = 90.22%			
18) Acenaphthene-d10	3.821	164	65079	4000.000	ng/ml	0.00
Standard Area 1 = 74318			Recovery = 87.57%			
23) Phenanthrene-d10	4.649	188	132762	4000.000	ng/ml	0.00
Standard Area 1 = 152800			Recovery = 86.89%			
32) Chrysene-d12	6.167	240	131850	4000.000	ng/ml	0.00
Standard Area 1 = 132050			Recovery = 99.85%			
37) Perylene-d12	7.307	264	162953	4000.000	ng/ml	0.00
Standard Area 1 = 149607			Recovery = 108.92%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.592	112	21077	2574.321	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 51.49%			
4) Phenol-d6	1.999	99	25150	2655.264	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 53.11%			
8) Nitrobenzene-d5	2.468	82	16168	2196.289	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 87.85%			
14) 2-Fluorobiphenyl	3.445	172	39883	1722.921	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 68.92%			
22) 2,4,6-Tribromophenol	4.260	330	7750	2341.355	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 46.83%			
31) 4-Terphenyl-d14	5.556	244	44881	1768.130	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 70.73%			
Target Compounds						Qvalue
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.		
15) 2-Chloronaphthalene	0.000		0	N.D.		
17) Acenaphthylene	3.741	152	175M4	5.963	ng/ml	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.		
26) Pentachlorophenol	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-11.D
Acq On : 07 Dec 2023 10:00 pm
Operator : SV125:dv
Sample : L2370783-11,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Dec 08 07:25:29 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	4.661	178	144M6	4.347	ng/ml	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
33) Benzo[a]anthracene	6.164	228	525M6	7.386	ng/ml	
35) Chrysene	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	0.000		0	N.D.	d	
39) Benzo[k]fluoranthene	0.000		0	N.D.	d	
40) Benzo[a]pyrene	0.000		0	N.D.	d	
41) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
42) Dibenzo[a,h]anthracene	0.000		0	N.D.		
43) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

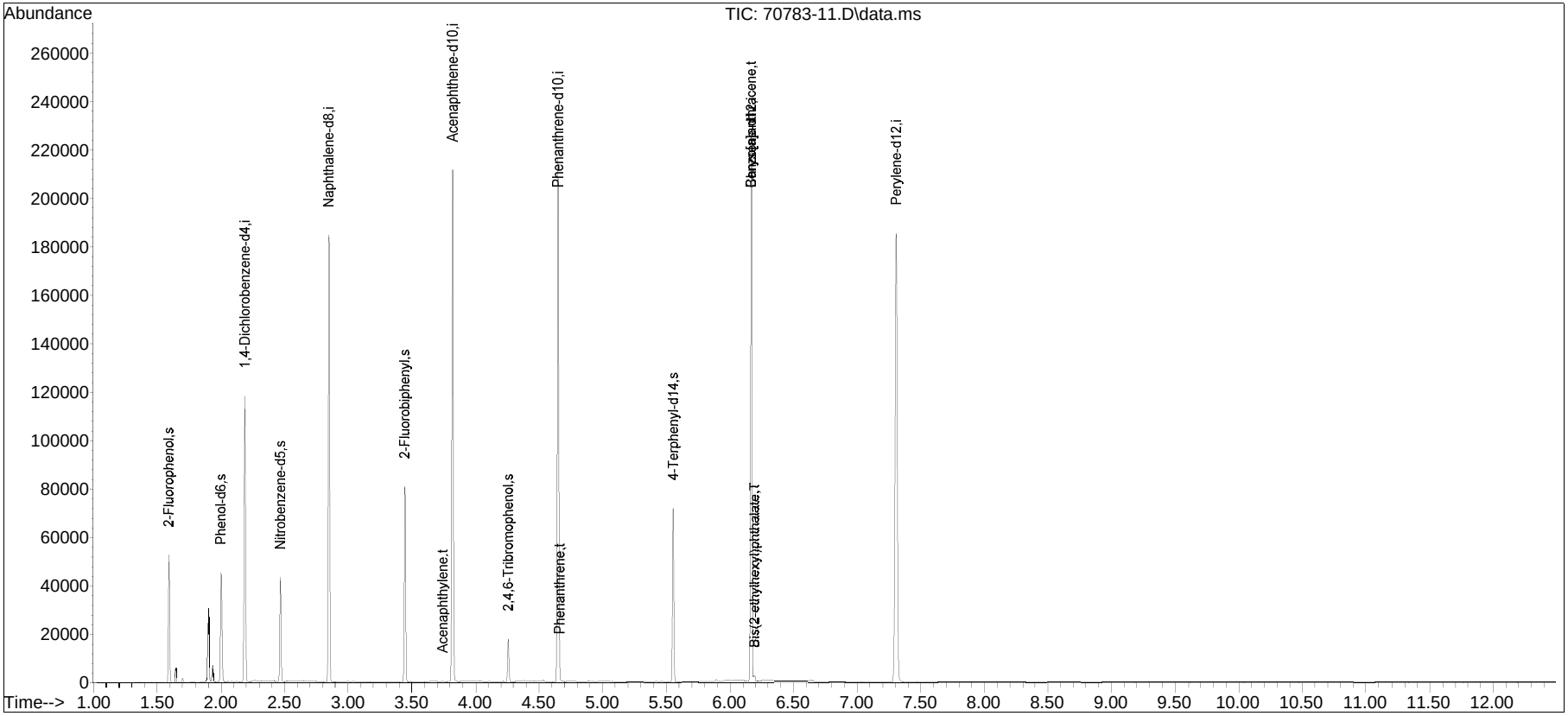
(#) = qualifier out of range (m) = manual integration (+) = signals summed

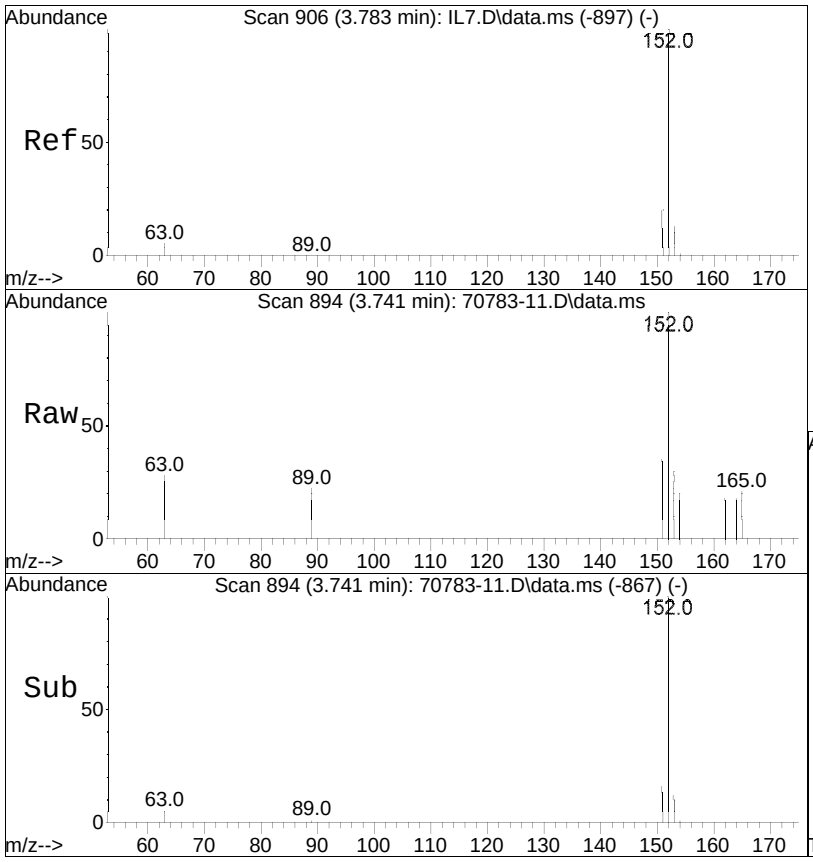
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 70783-11.D
Acq On : 07 Dec 2023 10:00 pm
Operator : SV125:dv
Sample : L2370783-11,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Dec 08 07:25:29 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedI\ccv1207b.D•

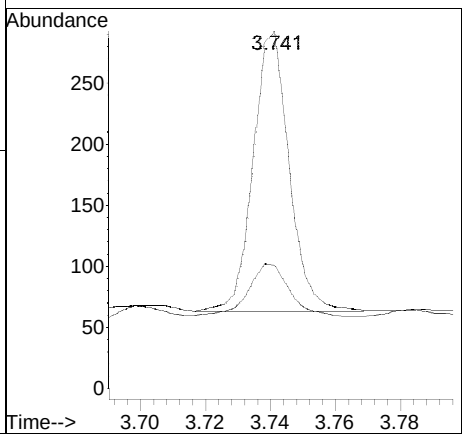


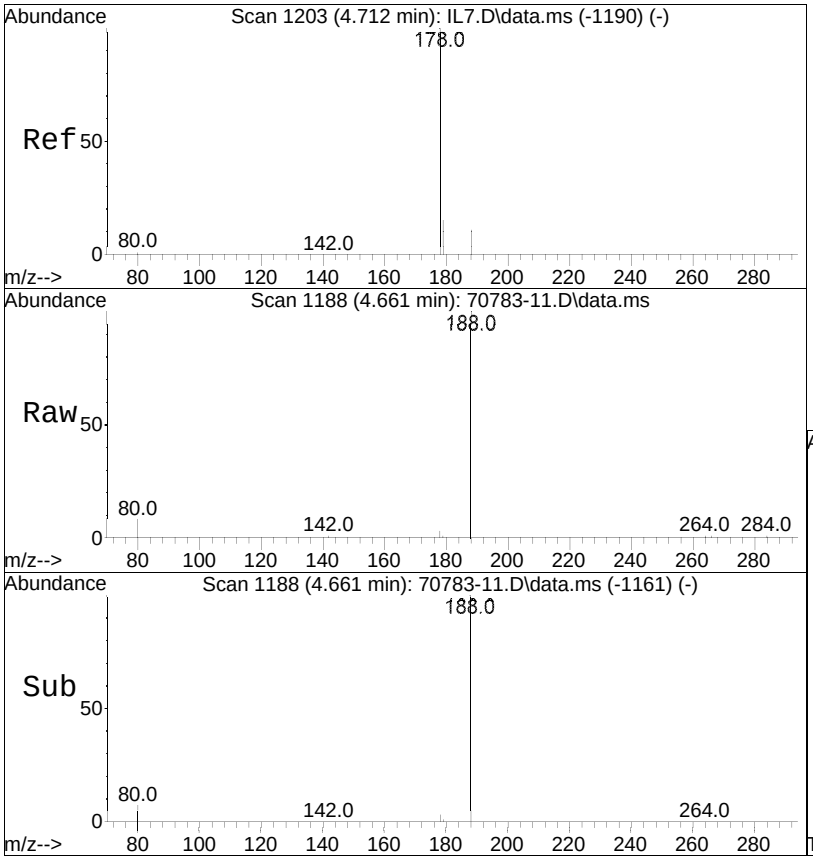


#17
Acenaphthylene
Concen: 5.96 ng/ml M4
RT: 3.741 min Scan# 894
Delta R.T. 0.002 min
Lab File: 70783-11.D
Acq: 07 Dec 2023 10:00 pm

Tgt Ion:152 Resp: 175

Ion	Ratio	Lower	Upper
152	100		
151	21.7	15.8	23.8

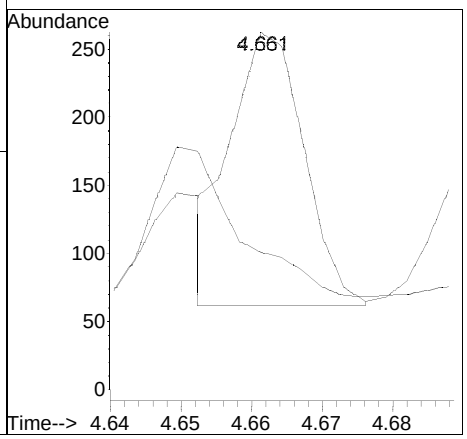


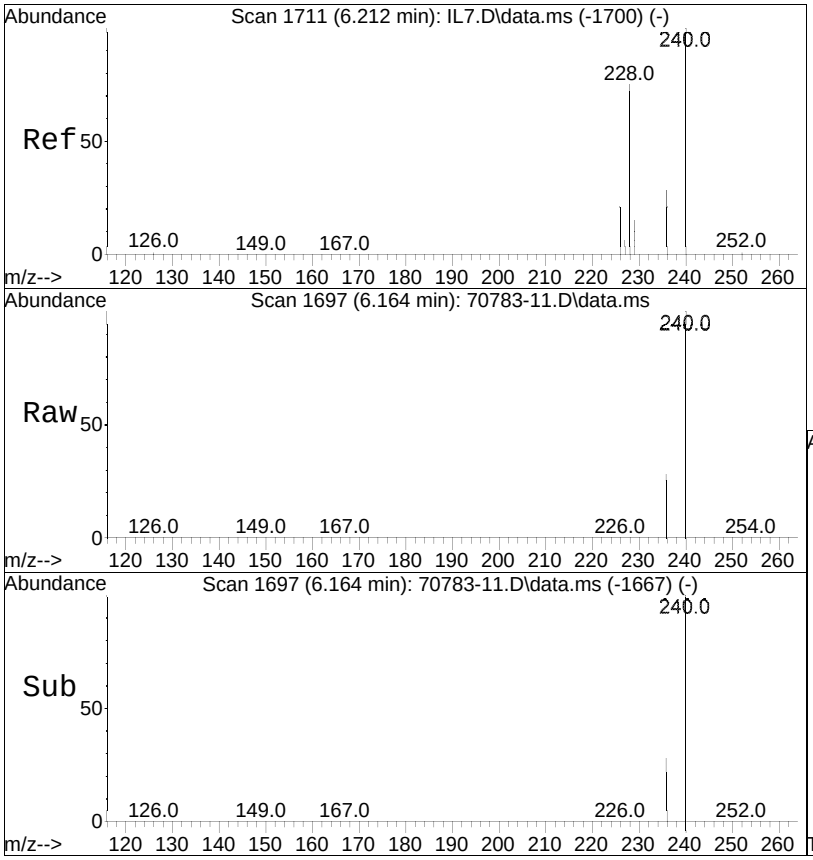


#27
Phenanthrene
Concen: 4.35 ng/ml M6
RT: 4.661 min Scan# 1188
Delta R.T. -0.001 min
Lab File: 70783-11.D
Acq: 07 Dec 2023 10:00 pm

Tgt Ion:178 Resp: 144

Ion	Ratio	Lower	Upper
178	100		
179	12.5	12.3	18.5

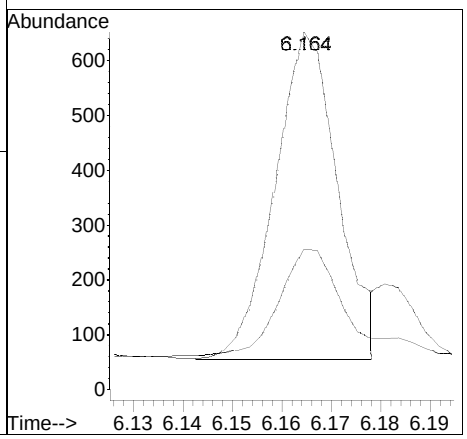




#33
Benzo[a]anthracene
Concen: 7.39 ng/ml M6
RT: 6.164 min Scan# 1697
Delta R.T. 0.002 min
Lab File: 70783-11.D
Acq: 07 Dec 2023 10:00 pm

Tgt Ion:228 Resp: 525

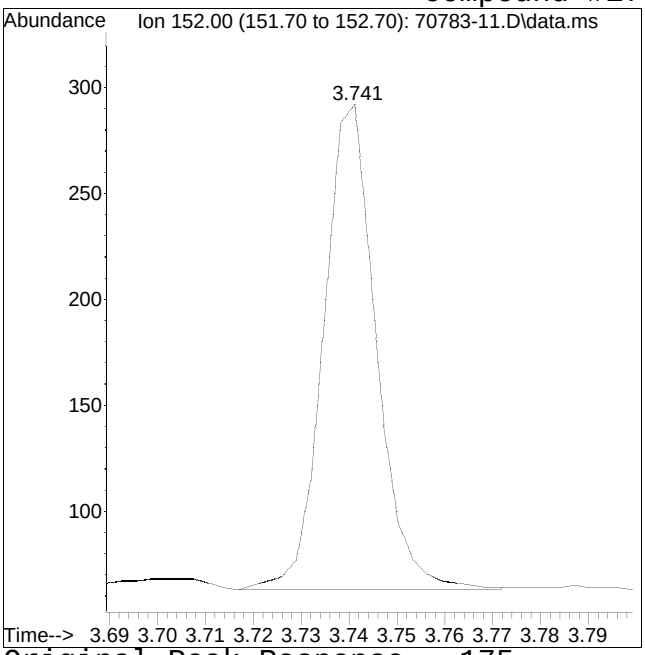
Ion	Ratio	Lower	Upper
228	100		
229	36.0	15.6	23.4#



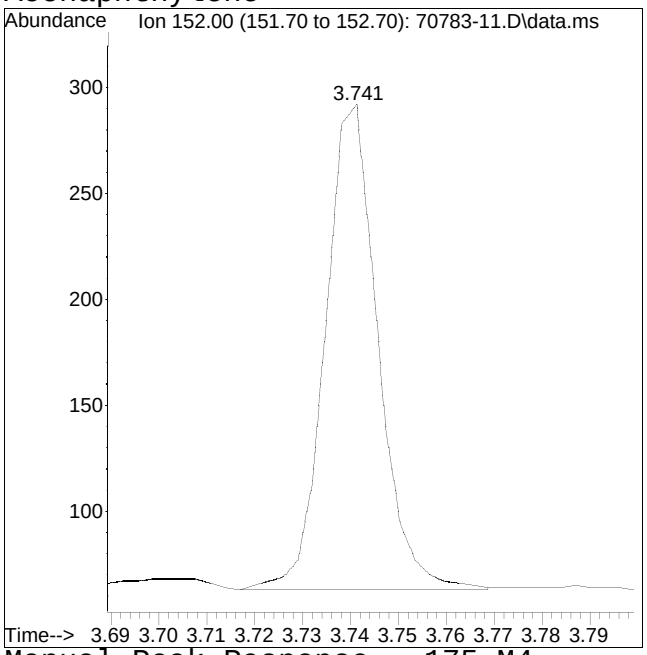
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-11.D Operator : SV125:dv
Date Inj'd : 12/7/2023 10:00 pm Instrument : SV125
Sample : L2370783-11,32,,ah Quant Date : 12/7/2023 10:25 pm

Compound #17: Acenaphthylene



Original Peak Response = 175



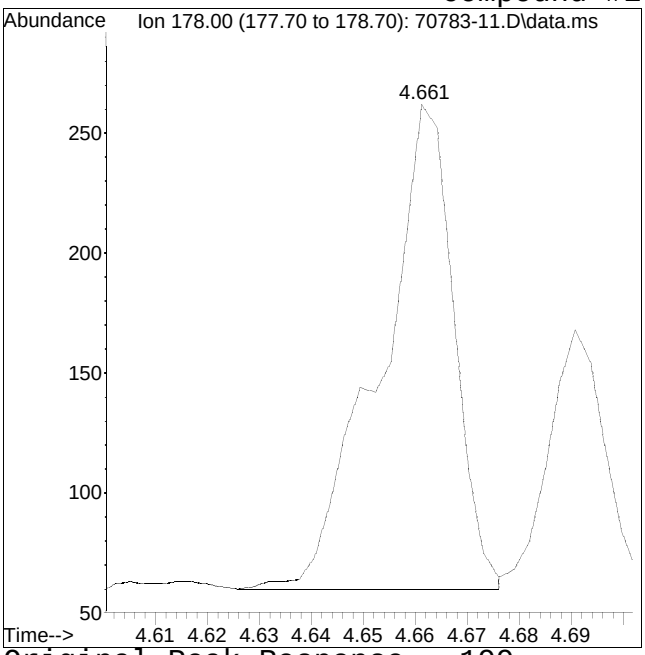
Manual Peak Response = 175 M4

M4 = Poor automated baseline construction.

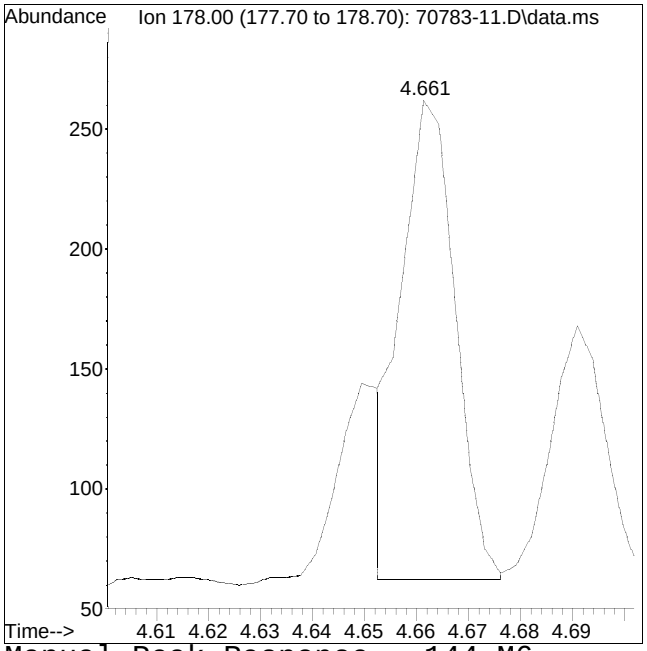
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-11.D Operator : SV125:dv
Date Inj'd : 12/7/2023 10:00 pm Instrument : SV125
Sample : L2370783-11,32,,ah Quant Date : 12/7/2023 10:25 pm

Compound #27: Phenanthrene



Original Peak Response = 199



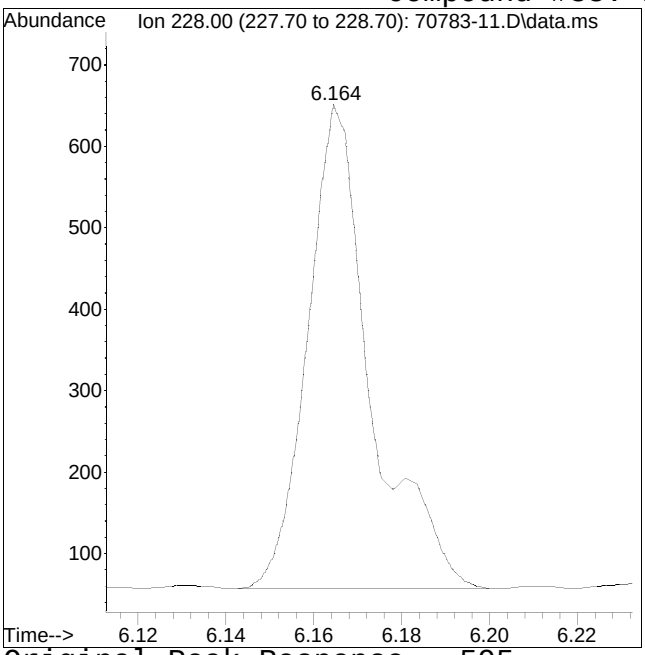
Manual Peak Response = 144 M6

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

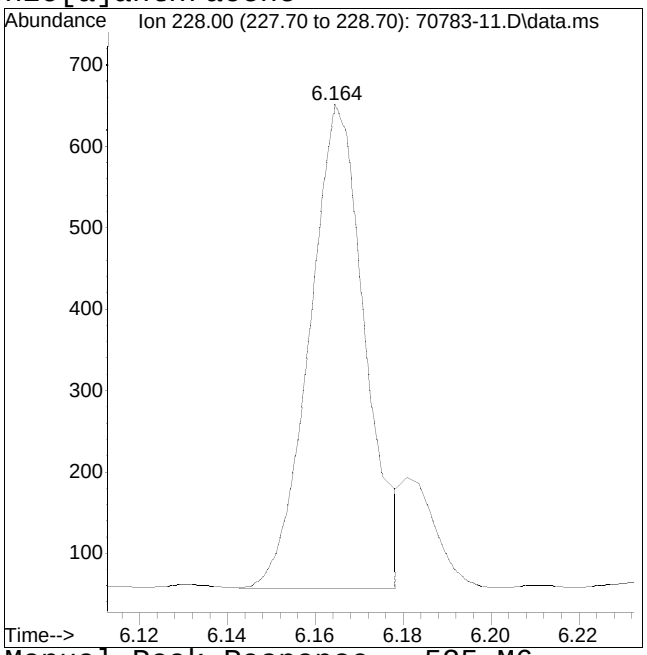
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : 70783-11.D Operator : SV125:dv
Date Inj'd : 12/7/2023 10:00 pm Instrument : SV125
Sample : L2370783-11,32,,ah Quant Date : 12/7/2023 10:25 pm

Compound #33: Benzo[a]anthracene



Original Peak Response = 595



Manual Peak Response = 525 M6

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

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV128**	**Ical Ref**	**: ICAL20340**
Calibration dates	**: 08/31/23 09:45 09/05/23 09:24**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3a.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD	
1)	i	1,4-Dichlorobenzene-d4	ISTD												
2)	s	2-Fluorophenol		1.121	0.811	1.026	1.020	1.037	1.056	1.066	1.039	1.023	1.022	8.35	
3)	s	Phenol-d6		1.308	0.973	1.254	1.238	1.260	1.300	1.335	1.297	1.292	1.251	8.68	
4)	T	bis(2-Chloroethyl)ether		1.121	0.865	1.102	1.071	1.093	1.129	1.134	1.115	1.070	1.078	7.72	
5)	T	n-Nitrosodi-n-propylamine			0.648	0.760	0.786	0.801	0.846	0.894	0.875	0.858	0.809	9.81	
6)	t	Hexachloroethane			0.432	0.494	0.485	0.487	0.494	0.497	0.483	0.473	0.481	4.38	
7)	s	Nitrobenzene-d5		0.935	0.811	1.026	1.054	1.072	1.134	1.196	1.167	1.147	1.060	11.66	
8)	i	Naphthalene-d8	ISTD												
9)	t	Naphthalene		1.042	0.780	1.011	1.003	1.006	1.013	1.008	0.990	0.943	0.977	8.04	
10)	t	Hexachlorobutadiene			0.150	0.190	0.187	0.190	0.192	0.192	0.188	0.181	0.184	7.59	
11)	t	2-Methylnaphthalene		0.645	0.520	0.660	0.669	0.666	0.685	0.694	0.684	0.647	0.652	8.04	
12)	t	1-Methylnaphthalene			0.465	0.620	0.617	0.619	0.635	0.642	0.634	0.602	0.604	9.54	
13)	s	2-Fluorobiphenyl		0.843	0.643	0.851	0.838	0.840	0.859	0.867	0.849	0.793	0.820	8.49	
14)	t	2-Chloronaphthalene		0.645	0.534	0.700	0.695	0.701	0.713	0.722	0.709	0.668	0.676	8.67	
15)	t	2,6-Dinitrotoluene				0.110	0.109	0.116	0.128	0.158	0.166	0.160	0.135	18.58	
16)	t	Acenaphthylene		1.042	0.807	1.061	1.073	1.099	1.150	1.201	1.166	1.096	1.077	10.57	
17)	i	Acenaphthene-d10	ISTD												
18)	t	Acenaphthene			0.984	1.308	1.320	1.323	1.324	1.332	1.303	1.246	1.267	9.28	
19)	t	2,4-Dinitrotoluene				0.244	0.245	0.259	0.294	0.353	0.368	0.363	0.304	18.68	
20)	t	Fluorene		1.447	1.029	1.430	1.416	1.434	1.463	1.460	1.424	1.344	1.383	9.94	
21)	s	2,4,6-Tribromophenol			0.112	0.139	0.156	0.163	0.177	0.197	0.201	0.197	0.168	18.89	
22)	i	Phenanthrene-d10	ISTD												
23)	T	4,6-Dinitro-o-cresol						0.043	0.052	0.059	0.073	0.078	0.077	*Q	0.9991
24)	t	Hexachlorobenzene	0.208	0.214	0.160	0.230	0.218	0.223	0.224	0.229	0.224	0.217	0.215	9.45	
25)	t	Pentachlorophenol			0.053	0.093	0.095	0.104	0.118	0.139	0.143	0.140		*Q	0.9991
26)	t	Phenanthrene		1.141	0.712	1.057	1.007	1.025	1.024	1.035	1.010	0.965	0.997	11.74	
27)	t	Anthracene		0.998	0.659	0.992	0.983	0.996	1.021	1.065	1.042	0.979	0.971	12.41	
28)	t	Fluoranthene		1.283	0.801	1.208	1.148	1.189	1.201	1.228	1.225	1.143	1.158	12.13	
29)	t	Pyrene		1.283	0.819	1.266	1.201	1.228	1.263	1.304	1.263	1.167	1.199	12.41	
30)	s	4-Terphenyl-d14		0.927	0.579	0.899	0.847	0.882	0.890	0.902	0.882	0.800	0.845	12.59	
31)	i	Chrysene-d12	ISTD												
32)	t	Benzo[a]anthracene		2.534	1.327	1.516	1.379	1.311	1.339	1.398				*Q	0.9996
33)	t	3,3'-Dichlorobenzidine				0.447	0.446	0.454	0.487	0.554	0.559	0.546	0.499	10.54	
34)	t	Chrysene		1.342	0.857	1.304	1.262	1.296	1.268	1.297	1.284	1.196	1.234	11.90	
35)	T	bis(2-Ethylhexyl)phthalate						0.582	0.634	0.727	0.890	0.936	0.905	0.779	19.50
36)	i	Perylene-d12	ISTD												

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV128**	**Ical Ref**	**: ICAL20340**
Calibration dates	**: 08/31/23 09:45 09/05/23 09:24**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3a.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) t	Benzo[b]fluoranthene		1.066	0.765	1.140	1.099	1.171	1.140	1.245	1.271	1.248	1.127	13.56
38) t	Benzo[k]fluoranthene		1.032	0.665	1.029	1.039	1.041	1.149	1.195	1.138	1.098	1.043	14.74
39) t	Benzo[a]pyrene		0.899	0.599	0.951	0.938	0.984	1.029	1.115	1.112	1.084	0.968	16.42
40) t	Indeno[1,2,3-cd]pyrene			0.690	0.931	0.893	0.904	0.972	1.081	1.106	1.172	0.969	15.69
41) t	Dibenzo[a,h]anthracene		0.799	0.632	0.886	0.857	0.917	1.008	1.103	1.105	1.084	0.932	17.12
42) t	Benzo[g,h,i]perylene			0.873	0.951	0.914	0.958	1.011	1.082	1.079	1.069	0.992	8.07

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV125**	**Ical Ref**	**: ICAL20477**
Calibration dates	**: 10/26/23 13:22 10/26/23 15:47**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	T	1,4-Dioxane											0.000	-1.00
3)	s	2-Fluorophenol		0.973	0.972	0.981	0.980	1.018	1.052	1.064	1.048	1.043	1.015	3.79
4)	s	Phenol-d6		1.136	1.123	1.117	1.123	1.153	1.200	1.233	1.240	1.238	1.174	4.56
5)	T	bis(2-Chloroethyl)ether		1.058	1.082	1.049	1.057	1.068	1.090	1.073	1.043	1.004	1.058	2.38
6)	T	n-Nitrosodi-n-propylamine		0.552	0.587	0.574	0.598	0.613	0.645	0.711	0.734	0.743	0.640	11.30
7)	t	Hexachloroethane		0.506	0.495	0.476	0.458	0.473	0.476	0.485	0.478	0.472	0.480	2.91
8)	s	Nitrobenzene-d5		0.778	0.817	0.844	0.852	0.898	0.951	1.008	1.026	1.036	0.912	10.58
9)	i	Naphthalene-d8	----------ISTD----------											
10)	t	Naphthalene		1.033	1.054	1.005	1.013	1.031	1.016	0.992	0.966	0.927	1.004	3.84
11)	t	Hexachlorobutadiene		0.191	0.194	0.184	0.182	0.186	0.181	0.177	0.170	0.165	0.181	5.16
12)	t	2-Methylnaphthalene		0.635	0.650	0.638	0.631	0.654	0.654	0.660	0.651	0.628	0.645	1.80
13)	t	1-Methylnaphthalene		0.596	0.619	0.591	0.594	0.610	0.610	0.609	0.598	0.578	0.601	2.09
14)	s	2-Fluorobiphenyl		0.767	0.805	0.781	0.781	0.796	0.790	0.757	0.729	0.688	0.766	4.83
15)	t	2-Chloronaphthalene		0.667	0.678	0.647	0.654	0.669	0.664	0.664	0.658	0.637	0.660	1.89
16)	t	2,6-Dinitrotoluene					0.092	0.099	0.110	0.142	0.153	0.153	*Q	0.9986
17)	t	Acenaphthylene		0.907	0.924	0.891	0.910	0.948	0.995	1.069	1.070	1.027	0.971	7.28
18)	i	Acenaphthene-d10	----------ISTD----------											
19)	t	Acenaphthene		1.354	1.331	1.314	1.302	1.307	1.295	1.294	1.257	1.230	1.298	2.83
20)	t	2,4-Dinitrotoluene				0.201	0.213	0.229	0.269	0.353	0.375		*Q	0.9986
21)	t	Fluorene		1.337	1.363	1.299	1.332	1.364	1.400	1.438	1.408	1.379	1.369	3.13
22)	s	2,4,6-Tribromophenol			0.141	0.139	0.147	0.161	0.187	0.217	0.220		*Q	0.9990
23)	i	Phenanthrene-d10	----------ISTD----------											
24)	T	4,6-Dinitro-o-cresol				0.037	0.042	0.047	0.060	0.082	0.090		*Q	0.9985
25)	t	Hexachlorobenzene	0.228	0.238	0.244	0.231	0.234	0.237	0.232	0.230	0.220	0.214	0.231	3.71
26)	t	Pentachlorophenol			0.046	0.052	0.064	0.076	0.098	0.125			*Q	0.9995
27)	t	Phenanthrene		1.033	1.036	0.969	1.011	1.017	1.004	1.003	0.970	0.938	0.998	3.26
28)	t	Anthracene		0.913	0.903	0.895	0.904	0.922	0.947	0.996	0.977	0.950	0.934	3.81
29)	t	Fluoranthene		1.059	1.065	1.046	1.056	1.087	1.104	1.184	1.150	1.126	1.097	4.36
30)	t	Pyrene		1.096	1.116	1.084	1.108	1.132	1.175	1.255	1.211	1.170	1.150	4.99
31)	s	4-Terphenyl-d14		0.729	0.753	0.754	0.761	0.781	0.794	0.808	0.761	0.741	0.765	3.33
32)	i	Chrysene-d12	----------ISTD----------											
33)	t	Benzo[a]anthracene		2.279	1.504	1.249	1.188	1.187	1.196	1.301	1.286		*Q	0.9994
34)	t	3,3'-Dichlorobenzene				0.346	0.350	0.369	0.397	0.482	0.496	0.507	0.421	17.01
35)	t	Chrysene		1.248	1.412	1.324	1.332	1.285	1.275	1.273	1.225	1.204	1.286	4.88
36)	T	bis(2-Ethylhexyl)phthalate				0.418	0.422	0.452	0.490	0.689	0.750		*Q	0.9983

Initial Calibration Summary
Form 6
Semivolatiles

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: SV125**	**Ical Ref**	**: ICAL20477**
Calibration dates	**: 10/26/23 13:22 10/26/23 15:47**		

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
37) i	Perylene-d12	----------ISTD----------											
38) t	Benzo[b]fluoranthene		1.062	1.043	1.004	1.024	1.056	1.096	1.188	1.131	1.097	1.078	5.28
39) t	Benzo[k]fluoranthene		0.950	1.012	1.006	1.042	1.083	1.155	1.154	1.132	1.092	1.069	6.73
40) t	Benzo[a]pyrene		0.828	0.846	0.854	0.869	0.911	0.982	1.079	1.077	1.058	0.945	11.11
41) t	Indeno[1,2,3-cd]pyrene			0.881	0.852	0.877	0.937	0.987	1.095	1.122	1.117	0.984	11.59
42) t	Dibenzo[a,h]anthracene		0.835	0.857	0.838	0.872	0.922	1.008	1.076	1.081	1.074	0.951	11.33
43) t	Benzo[g,h,i]perylene		0.998	1.011	0.971	1.007	1.032	1.105	1.159	1.152	1.138	1.064	6.97

Response Factor Report SV128

Method Path : I:\8270SIM\SV128\230831aLVIical\
Method File : SIM-LVI_230831_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 12:51:59 2023
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3a.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

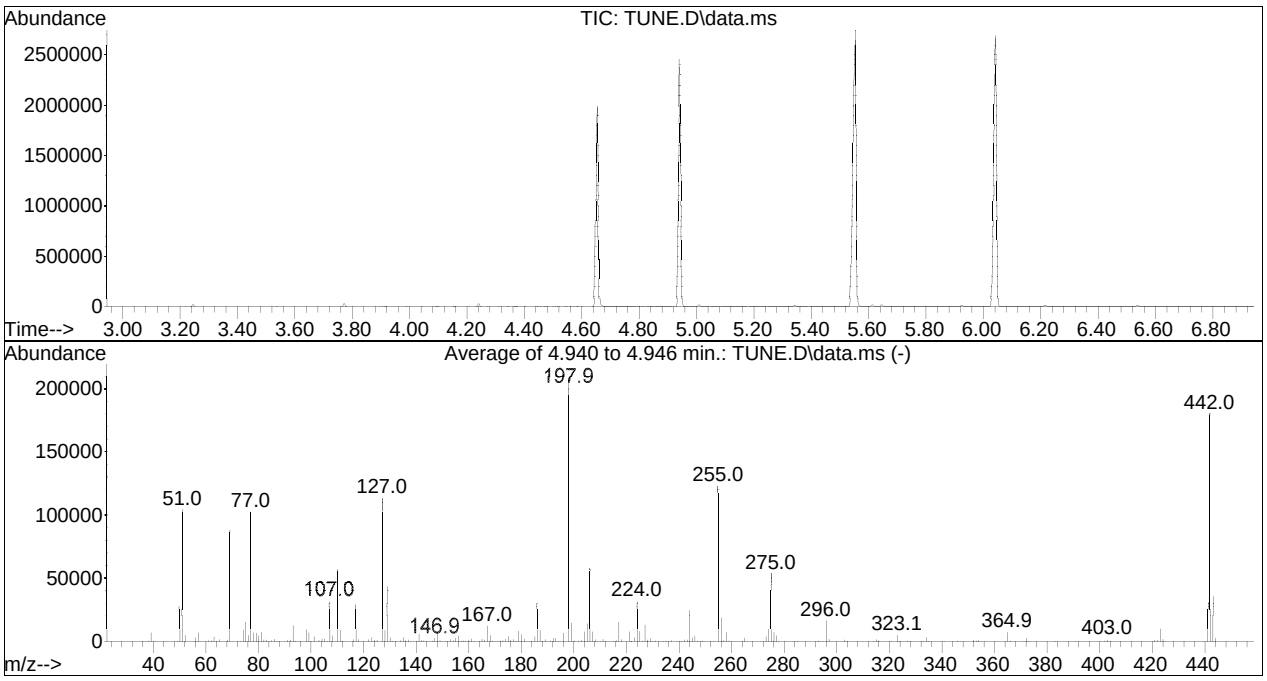
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	s	2-Fluorophenol		1.121	0.811	1.026	1.020	1.037	1.056	1.066	1.039	1.023	1.022	8.35
3)	s	Phenol-d6		1.308	0.973	1.254	1.238	1.260	1.300	1.335	1.297	1.292	1.251	8.68
4)	T	bis(2-Chloroethyl)ether		1.121	0.865	1.102	1.071	1.093	1.129	1.134	1.115	1.070	1.078	7.72
5)	T	n-Nitrosodi-n-propylamine			0.648	0.760	0.786	0.801	0.846	0.894	0.875	0.858	0.809	9.81
6)	t	Hexachloroethane			0.432	0.494	0.485	0.487	0.494	0.497	0.483	0.473	0.481	4.38
7)	s	Nitrobenzene-d5		0.935	0.811	1.026	1.054	1.072	1.134	1.196	1.167	1.147	1.060	11.66
8)	i	Naphthalene-d8	ISTD											
9)	t	Naphthalene		1.042	0.780	1.011	1.003	1.006	1.013	1.008	0.990	0.943	0.977	8.04
10)	t	Hexachlorobutadiene			0.150	0.190	0.187	0.190	0.192	0.192	0.188	0.181	0.184	7.59
11)	t	2-Methylnaphthalene		0.645	0.520	0.660	0.669	0.666	0.685	0.694	0.684	0.647	0.652	8.04
12)	t	1-Methylnaphthalene			0.465	0.620	0.617	0.619	0.635	0.642	0.634	0.602	0.604	9.54
13)	s	2-Fluorobiphenyl		0.843	0.643	0.851	0.838	0.840	0.859	0.867	0.849	0.793	0.820	8.49
14)	t	2-Chloronaphthalene		0.645	0.534	0.700	0.695	0.701	0.713	0.722	0.709	0.668	0.676	8.67
15)	t	2,6-Dinitrotoluene				0.110	0.109	0.116	0.128	0.158	0.166	0.160	0.135	18.58
16)	t	Acenaphthylene		1.042	0.807	1.061	1.073	1.099	1.150	1.201	1.166	1.096	1.077	10.57
17)	i	Acenaphthene-d10	ISTD											
18)	t	Acenaphthene			0.984	1.308	1.320	1.323	1.324	1.332	1.303	1.246	1.267	9.28
19)	t	2,4-Dinitrotoluene				0.244	0.245	0.259	0.294	0.353	0.368	0.363	0.304	18.68
20)	t	Fluorene		1.447	1.029	1.430	1.416	1.434	1.463	1.460	1.424	1.344	1.383	9.94
21)	s	2,4,6-Tribromophenol			0.112	0.139	0.156	0.163	0.177	0.197	0.201	0.197	0.168	18.89
22)	i	Phenanthrene-d10	ISTD											
23)	T	4,6-Dinitro-o-cresol					0.043	0.052	0.059	0.073	0.078	0.077	*Q	0.9991
24)	t	Hexachlorobenzene	0.208	0.214	0.160	0.230	0.218	0.223	0.224	0.229	0.224	0.217	0.215	9.45
25)	t	Pentachlorophenol			0.053	0.093	0.095	0.104	0.118	0.139	0.143	0.140	*Q	0.9991
26)	t	Phenanthrene		1.141	0.712	1.057	1.007	1.025	1.024	1.035	1.010	0.965	0.997	11.74
27)	t	Anthracene		0.998	0.659	0.992	0.983	0.996	1.021	1.065	1.042	0.979	0.971	12.41
28)	t	Fluoranthene		1.283	0.801	1.208	1.148	1.189	1.201	1.228	1.225	1.143	1.158	12.13
29)	t	Pyrene		1.283	0.819	1.266	1.201	1.228	1.263	1.304	1.263	1.167	1.199	12.41
30)	s	4-Terphenyl-d14		0.927	0.579	0.899	0.847	0.882	0.890	0.902	0.882	0.800	0.845	12.59
31)	i	Chrysene-d12	ISTD											
32)	t	Benzo[a]anthracene		2.534	1.327	1.516	1.379	1.311	1.339	1.398			*Q	0.9996
33)	t	3,3'-Dichlorobenzidine				0.447	0.446	0.454	0.487	0.554	0.559	0.546	0.499	10.54
34)	t	Chrysene		1.342	0.857	1.304	1.262	1.296	1.268	1.297	1.284	1.196	1.234	11.90
35)	T	bis(2-Ethylhexyl)phthalate					0.582	0.634	0.727	0.890	0.936	0.905	0.779	19.50
36)	i	Perylene-d12	ISTD											
37)	t	Benzo[b]fluora...		1.066	0.765	1.140	1.099	1.171	1.140	1.245	1.271	1.248	1.127	13.56
38)	t	Benzo[k]fluora...		1.032	0.665	1.029	1.039	1.041	1.149	1.195	1.138	1.098	1.043	14.74
39)	t	Benzo[a]pyrene		0.899	0.599	0.951	0.938	0.984	1.029	1.115	1.112	1.084	0.968	16.42
40)	t	Indeno[1,2,3-c...			0.690	0.931	0.893	0.904	0.972	1.081	1.106	1.172	0.969	15.69
41)	t	Dibenzo[a,h]anthracene		0.799	0.632	0.886	0.857	0.917	1.008	1.103	1.105	1.084	0.932	17.12
42)	t	Benzo[g,h,i]pe...			0.873	0.951	0.914	0.958	1.011	1.082	1.079	1.069	0.992	8.07

(#) = Out of Range

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : TUNE.D
Acq On : 31 Aug 2023 09:28 am
Operator : SV128:ah
Sample : TUNE
Misc : WG1823727,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 12:51:59 2023



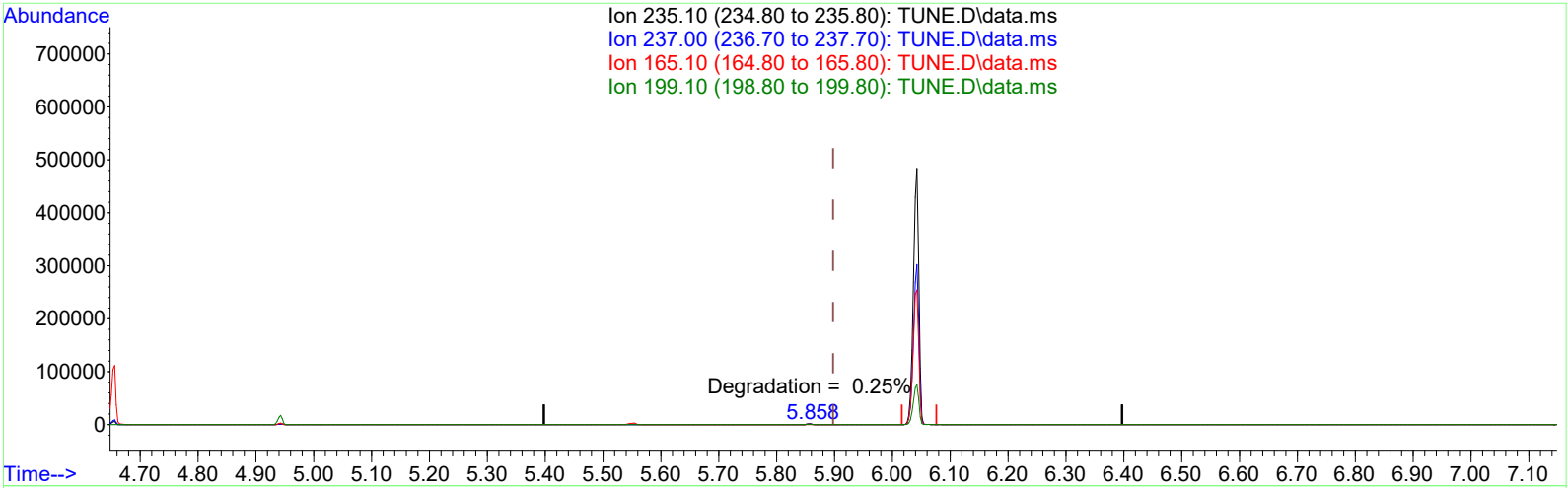
Spectrum Information: Average of 4.940 to 4.946 min.

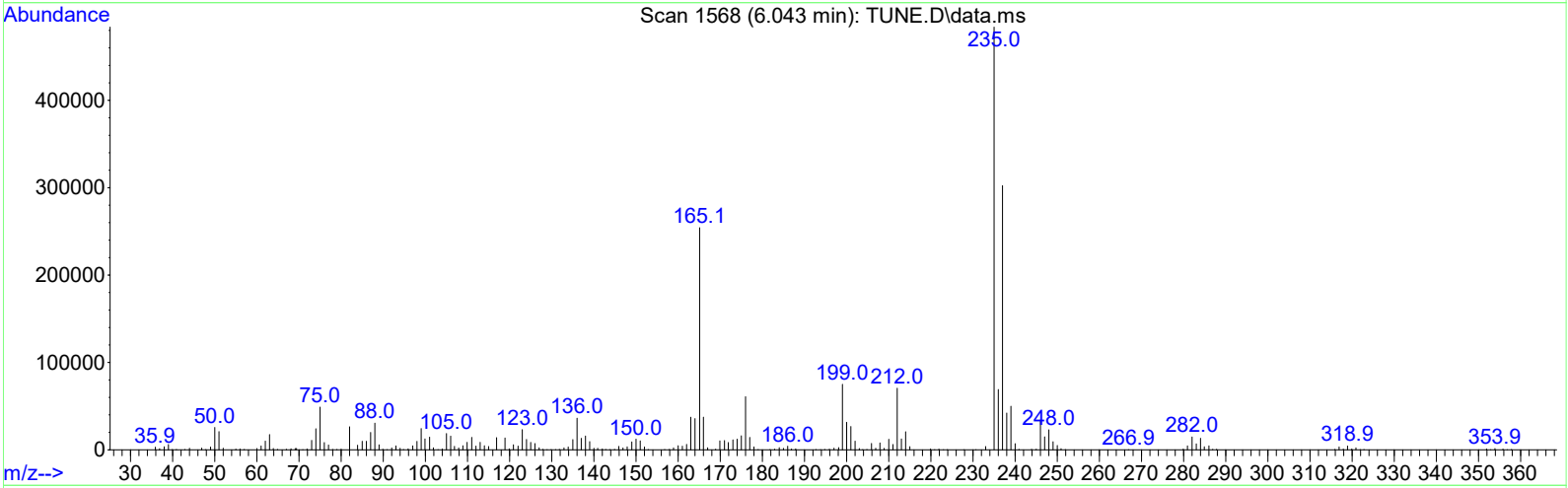
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	49.9	104205	PASS
68	69	0.00	2	1.9	1690	PASS
69	69	100	100	100.0	87443	PASS
70	69	0.00	2	0.5	471	PASS
127	198	10	80	54.3	113336	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	208768	PASS
199	198	5	9	6.8	14193	PASS
275	198	10	60	25.6	53408	PASS
365	198	1	100	3.5	7351	PASS
441	442	0.01	24	17.3	31224	PASS
442	198	50	100	86.4	180349	PASS
443	442	15	24	19.6	35357	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : TUNE.D
Acq On : 31 Aug 2023 09:28 am
Operator : SV128:ah
Sample : TUNE
Misc : WG1823727,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Aug 31 09:44:13 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Aug 12 18:40:35 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(6) ddt (T)

6.043min (+ 0.145) 52.00

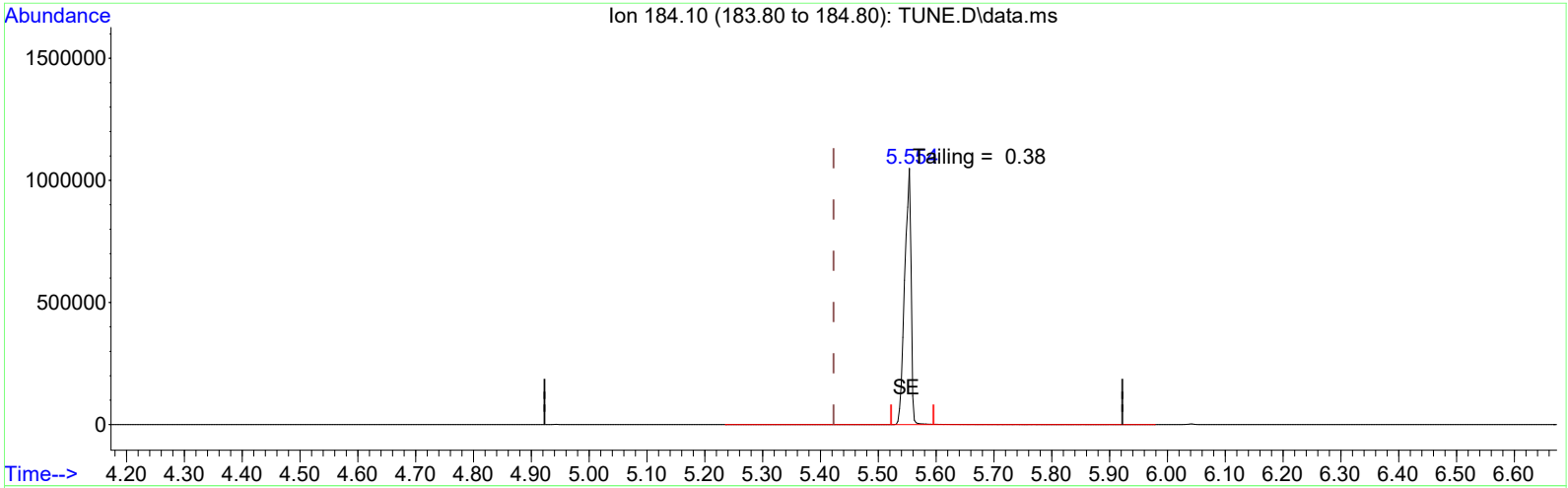
response 316951

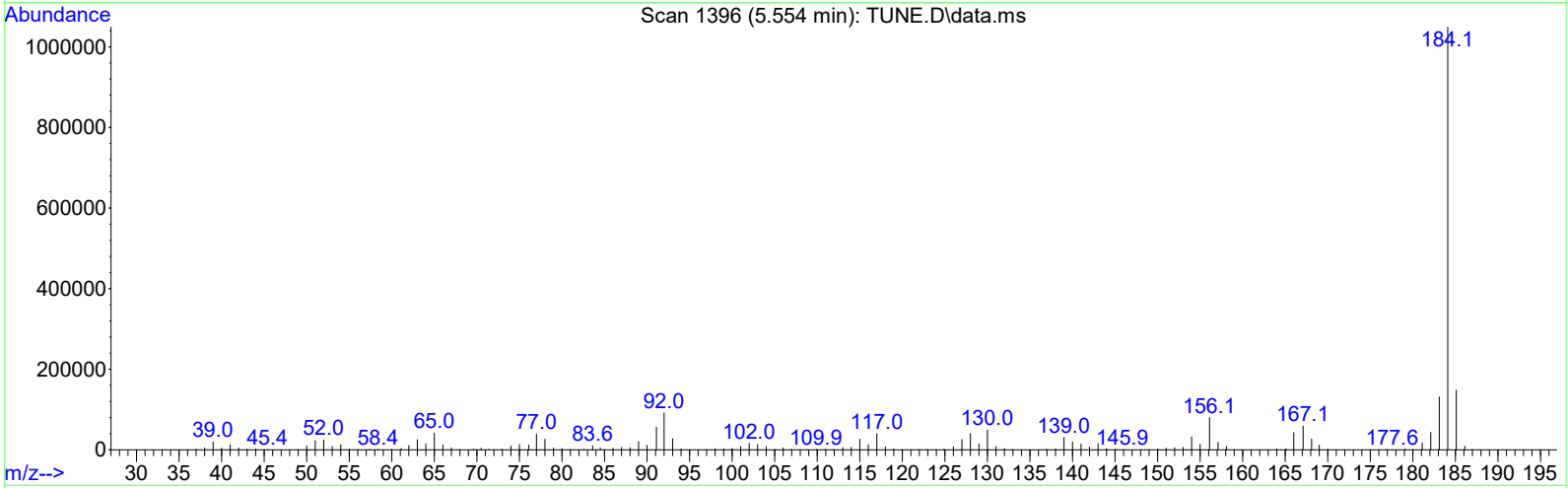
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.00
165.10	53.30	54.33
199.10	17.10	15.92

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : TUNE.D
Acq On : 31 Aug 2023 09:28 am
Operator : SV128:ah
Sample : TUNE
Misc : WG1823727,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Aug 31 09:44:13 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Aug 12 18:40:35 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(3) benzidine (T)

5.554min (+ 0.131) 79.16

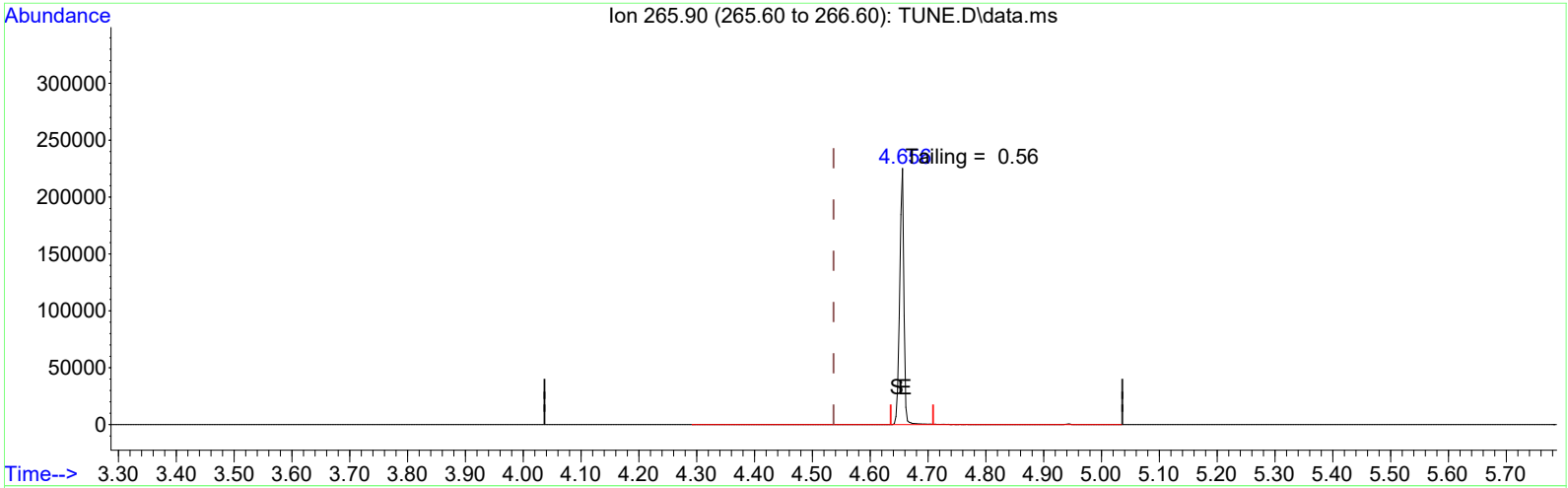
response 805877

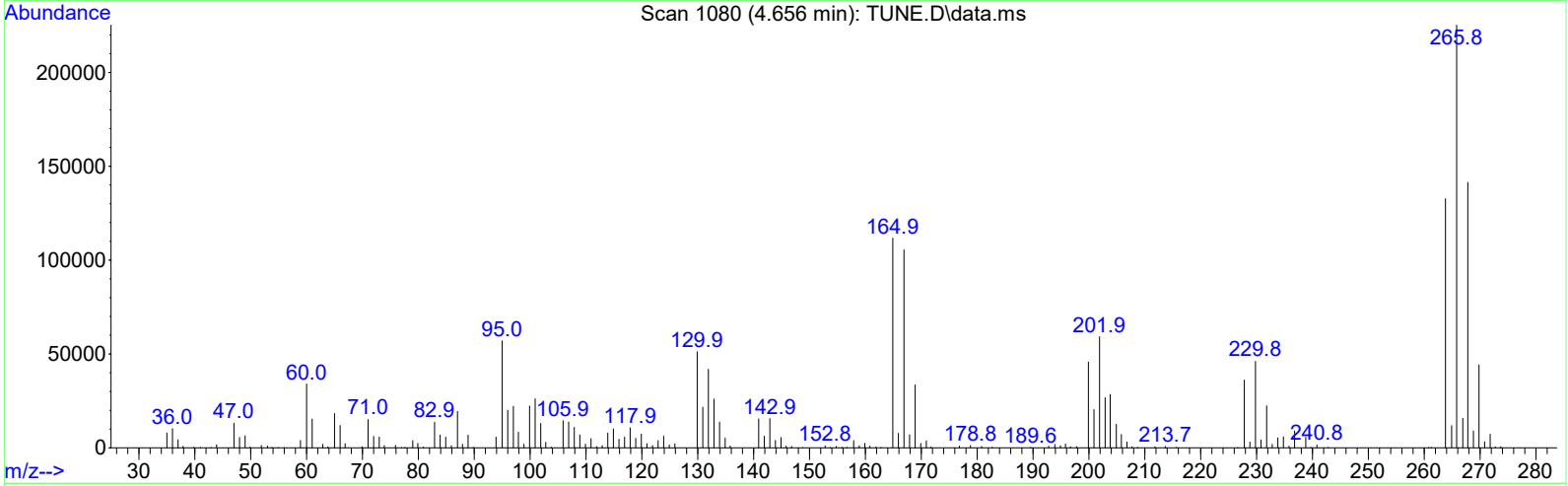
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : TUNE.D
Acq On : 31 Aug 2023 09:28 am
Operator : SV128:ah
Sample : TUNE
Misc : WG1823727,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Aug 31 09:44:13 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Aug 12 18:40:35 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNE.D\data.ms

(1) pentachlorophenol (T)

4.656min (+ 0.119) 54.32

response 114091

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL10.D
Acq On : 31 Aug 2023 09:45 am
Operator : SV128:ah
Sample : IL10,32,, 20.0 Lot#10186
Misc : WG1823727,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 11:58:37 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:34 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.255	152	2427	4000.000	ng/ml	# 0.00
Standard Area 1 = 2292			Recovery = 105.89%			
8) Naphthalene-d8	2.921	136	9687	4000.000	ng/ml	0.00
Standard Area 1 = 8982			Recovery = 107.85%			
17) Acenaphthene-d10	3.902	164	5634	4000.000	ng/ml	0.00
Standard Area 1 = 5319			Recovery = 105.92%			
22) Phenanthrene-d10	4.748	188	12614	4000.000	ng/ml	0.00
Standard Area 1 = 12548			Recovery = 100.53%			
31) Chrysene-d12	6.330	240	11188	4000.000	ng/ml	0.00
Standard Area 1 = 11983			Recovery = 93.37%			
36) Perylene-d12	7.614	264	12425	4000.000	ng/ml	0.00
Standard Area 1 = 13430			Recovery = 92.52%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.651	112	12412	20013.263	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 400.27%#			
3) Phenol-d6	2.065	99	15675	20654.603	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 413.09%#			
7) Nitrobenzene-d5	2.539	82	13923	21644.124	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 865.76%#			
13) 2-Fluorobiphenyl	3.520	172	38427	19341.728	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 773.67%#			
21) 2,4,6-Tribromophenol	4.354	330	5547	23448.594	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 468.97%#			
30) 4-Terphenyl-d14	5.678	244	50473	18934.676	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 757.39%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.118	93	12989	19862.308	ng/ml	98
5) n-nitrosodi-n-propylamine	2.460	70	10407	21213.828	ng/ml	97
6) Hexachloroethane	2.518	117	5745	19690.516	ng/ml	90
9) Naphthalene	2.934	128	45653	19288.779	ng/ml#	100
10) Hexachlorobutadiene	3.007	225	8750M6	19660.851	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL10.D
Acq On : 31 Aug 2023 09:45 am
Operator : SV128:ah
Sample : IL10,32,, 20.0 Lot#10186
Misc : WG1823727,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 11:58:37 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:34 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
11) 2-Methylnaphthalene	3.315	142	31355	19847.243	ng/ml	99
12) 1-Methylnaphthalene	3.370	142	29169	19928.783	ng/ml	100
14) 2-Chloronaphthalene	3.587	162	32338	19744.754	ng/ml	95
15) 2,6-Dinitrotoluene	3.783	165	7728M6	23626.300	ng/ml	
16) Acenaphthylene	3.823	152	53081M6	20351.393	ng/ml	
18) Acenaphthene	3.920	153	35090	19657.034	ng/ml	94
19) 2,4-Dinitrotoluene	4.015	165	10238	23922.787	ng/ml	89
20) Fluorene	4.214	166	37855M6	19433.493	ng/ml	
23) 4,6-Dinitro-o-cresol	4.247	198	4886	19876.041	ng/ml#	73
24) Hexachlorobenzene	4.535	284	13712	20242.406	ng/ml	99
25) Pentachlorophenol	4.645	266	8852M6	19872.684	ng/ml	
26) Phenanthrene	4.763	178	60851	19349.311	ng/ml	100
27) Anthracene	4.792	178	61755	20177.830	ng/ml	99
28) Fluoranthene	5.451	202	72088	19729.677	ng/ml#	95
29) Pyrene	5.582	202	73601	19462.711	ng/ml	99
32) Benzo[a]anthracene	6.322	228	73778	16230.288	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.314	252	30521	21873.811	ng/ml	100
34) Chrysene	6.349	228	66926	19388.791	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.363	149	50622	23233.954	ng/ml	100
37) Benzo[b]fluoranthene	7.221	252	77504	22139.094	ng/ml	100
38) Benzo[k]fluoranthene	7.253	252	68195	21049.281	ng/ml	100
39) Benzo[a]pyrene	7.554	252	67361	22404.318	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.944	276	72828	24204.202	ng/ml	96
41) Dibenzo[a,h]anthracene	9.000	278	67333M6	23249.025	ng/ml	
42) Benzo[g,h,i]perylene	9.334	276	66435	21505.833	ng/ml	95

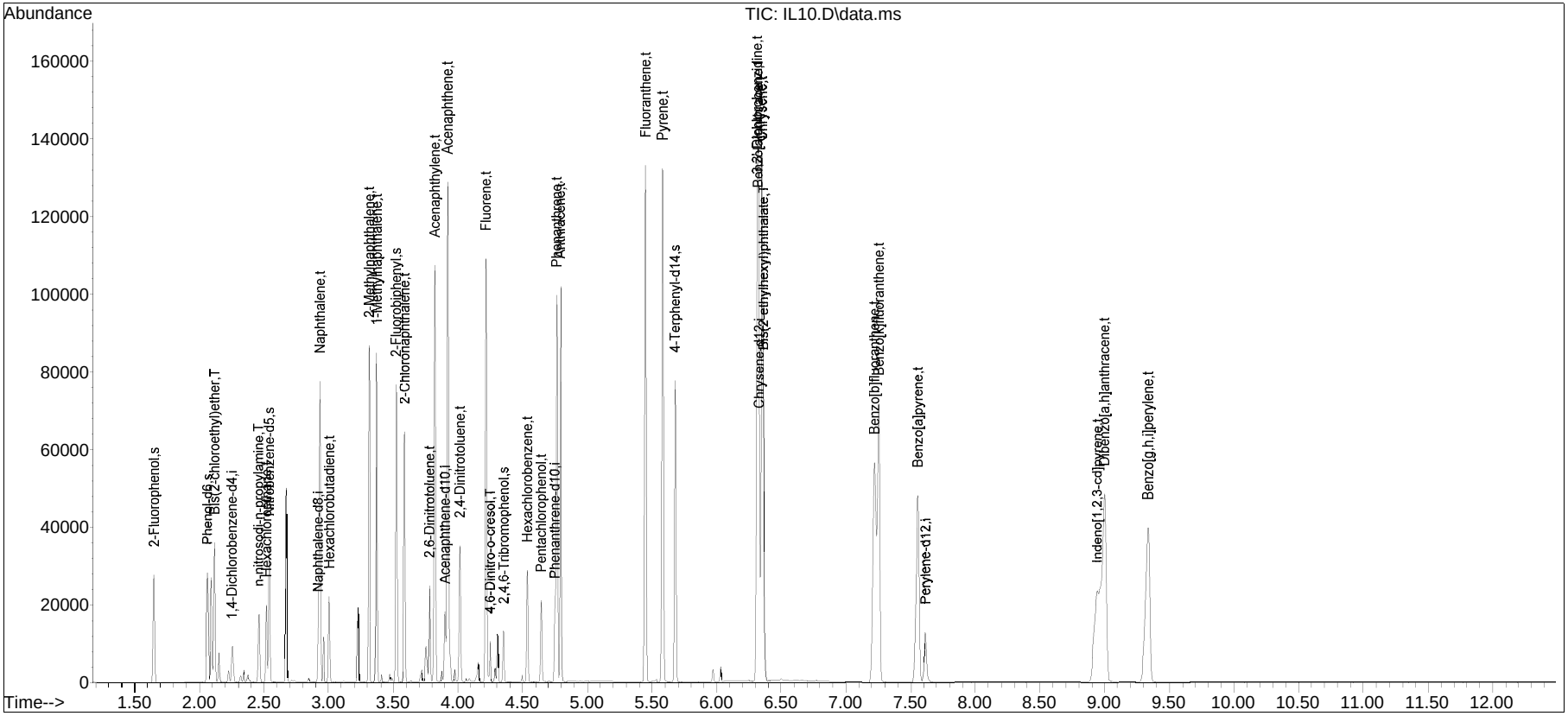
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL10.D
Acq On : 31 Aug 2023 09:45 am
Operator : SV128:ah
Sample : IL10,32,, 20.0 Lot#10186
Misc : WG1823727,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 05 11:58:37 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:34 2023
Response via : Initial Calibration

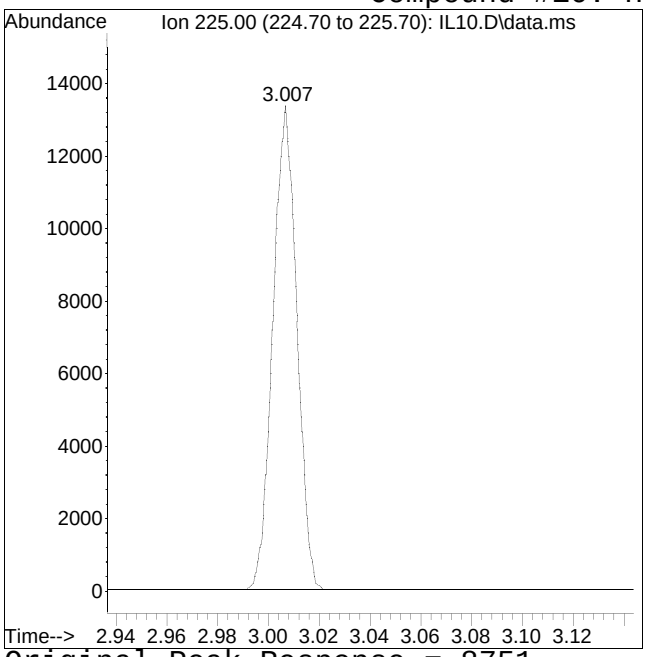
Sub List : Default - All compounds listedIical\IL7.D•



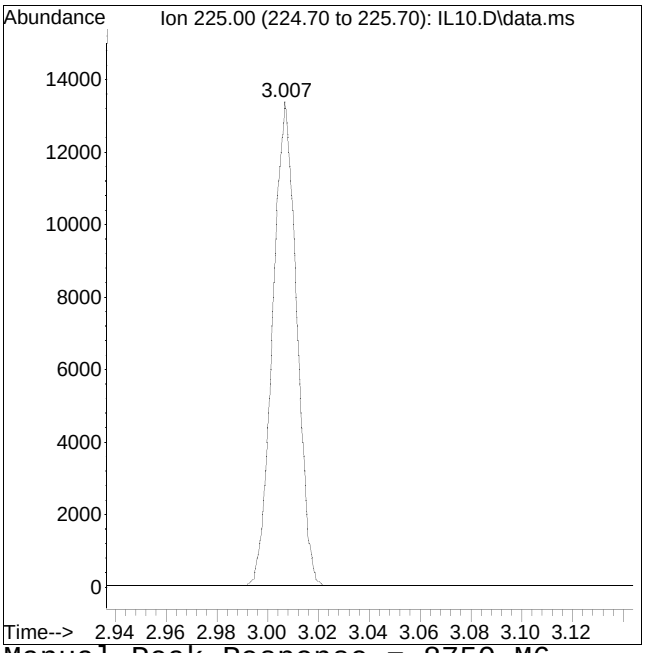
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL10.D Operator : SV128:ah
Date Inj'd : 8/31/2023 9:45 am Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 9/5/2023 11:58 am

Compound #10: Hexachlorobutadiene



Original Peak Response = 8751



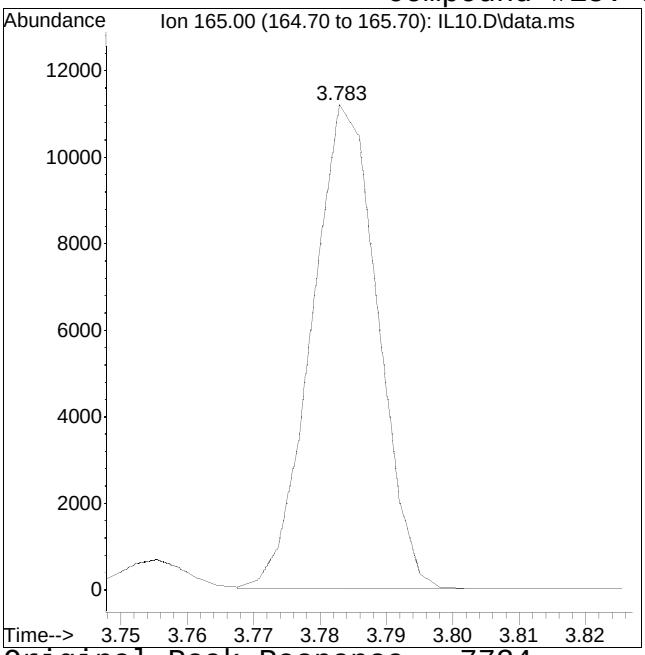
Manual Peak Response = 8750 M6

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

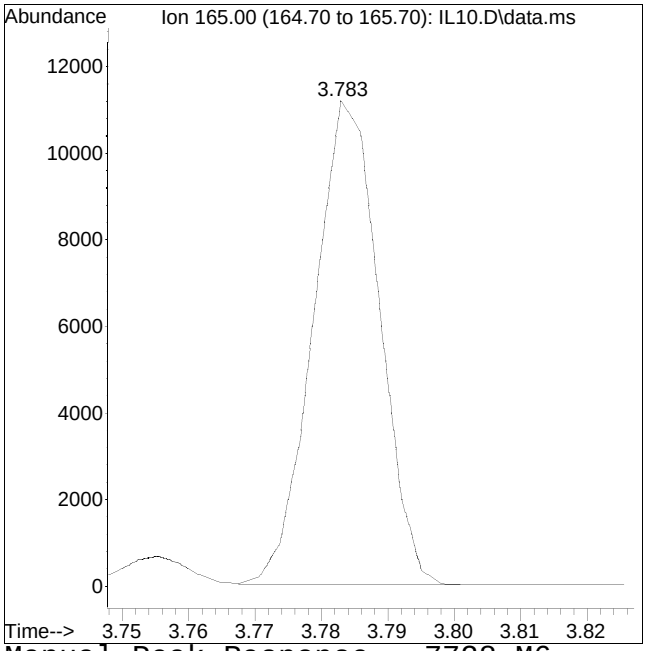
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL10.D Operator : SV128:ah
Date Inj'd : 8/31/2023 9:45 am Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 9/5/2023 11:58 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 7734



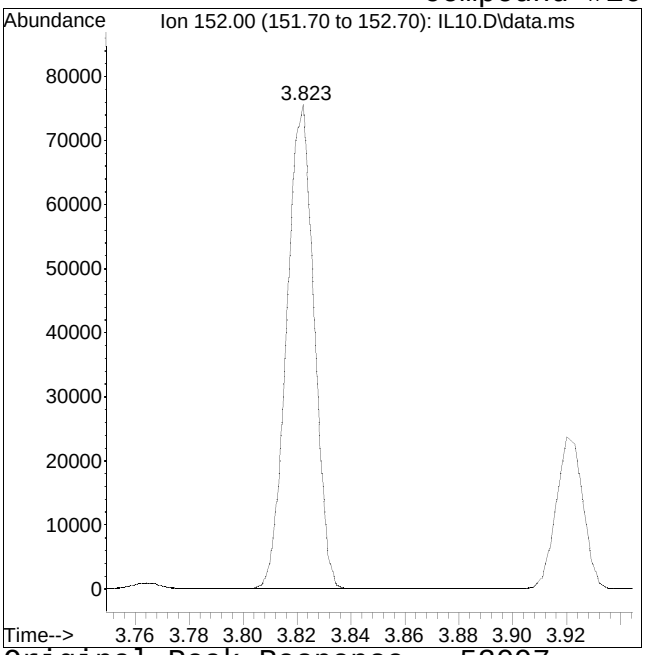
Manual Peak Response = 7728 M6

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

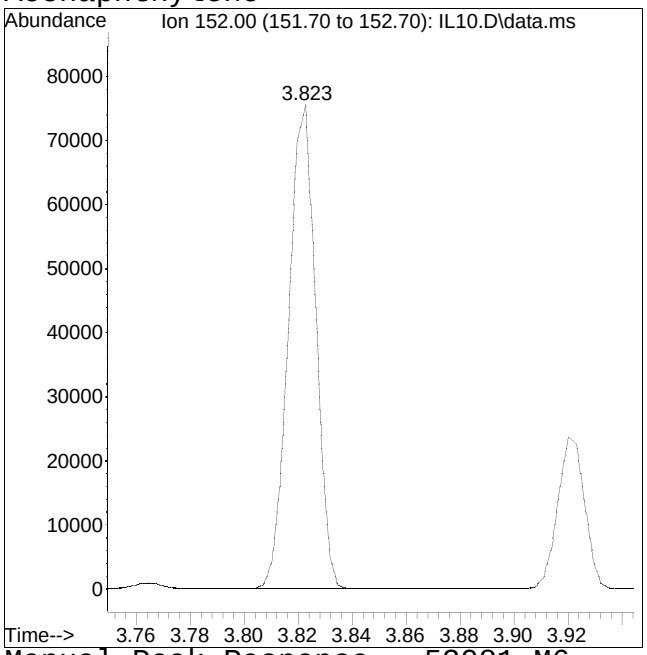
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL10.D Operator : SV128:ah
Date Inj'd : 8/31/2023 9:45 am Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 9/5/2023 11:58 am

Compound #16: Acenaphthylene



Original Peak Response = 53097



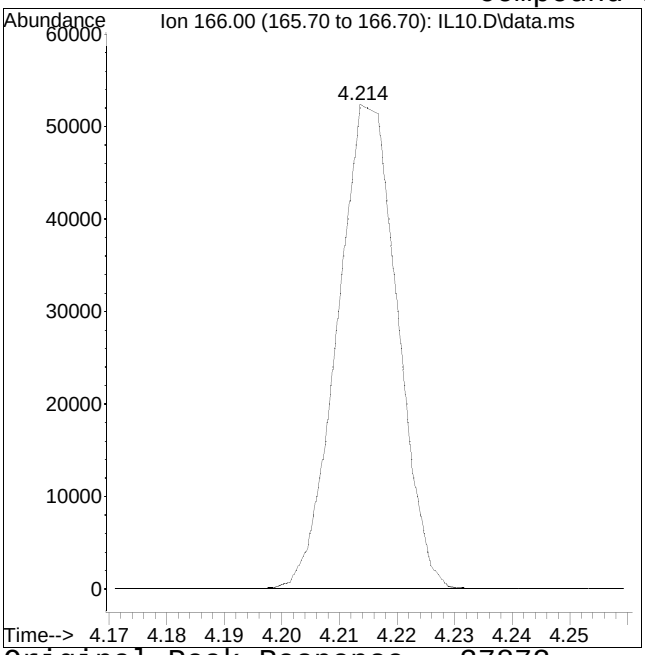
Manual Peak Response = 53081 M6

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

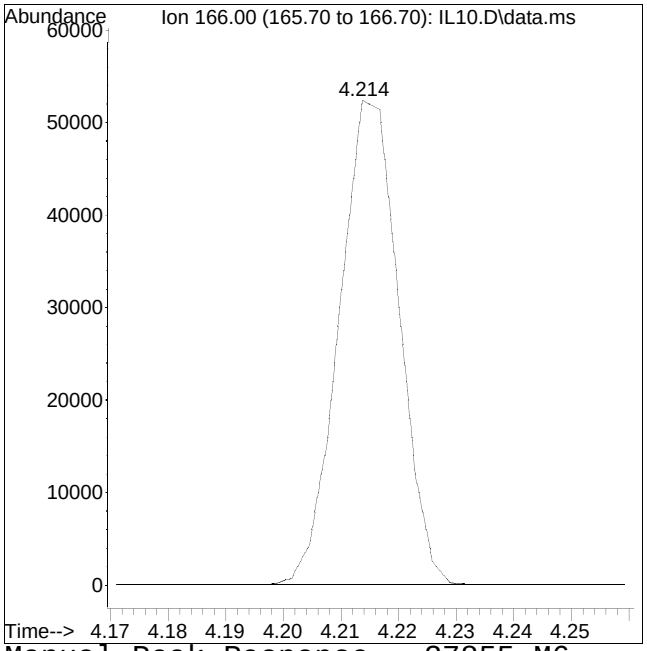
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL10.D Operator : SV128:ah
Date Inj'd : 8/31/2023 9:45 am Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 9/5/2023 11:58 am

Compound #20: Fluorene



Original Peak Response = 37872



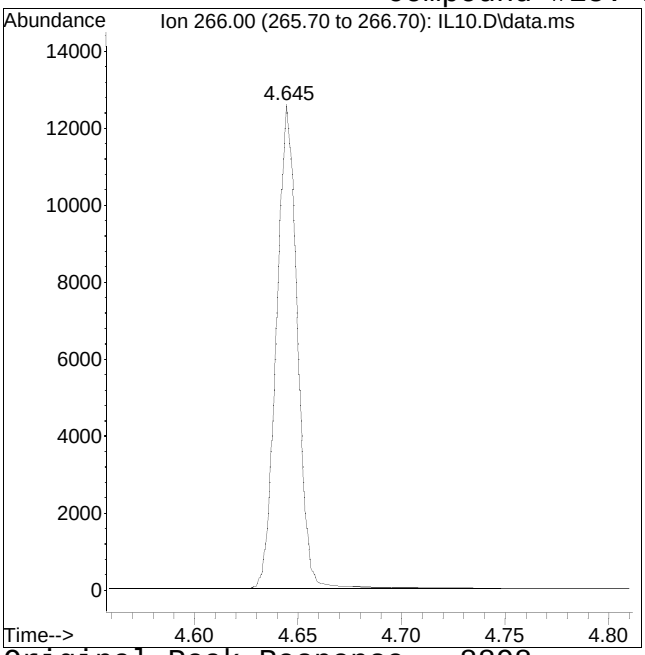
Manual Peak Response = 37855 M6

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

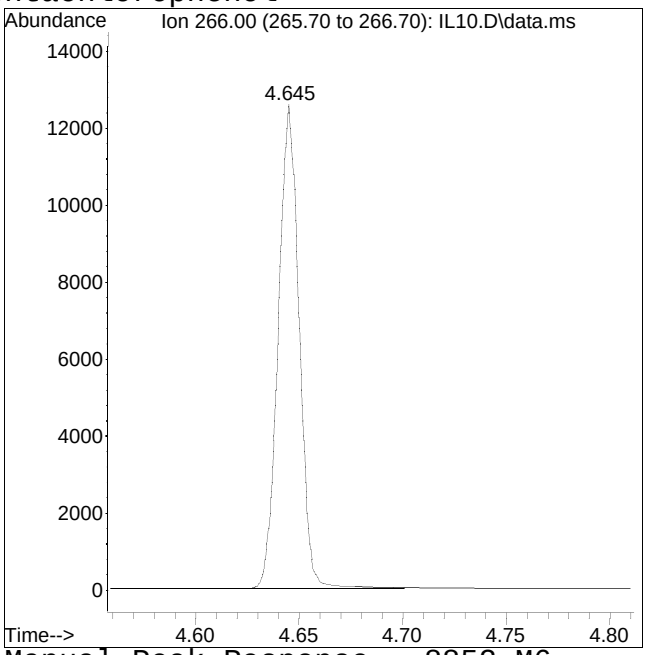
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL10.D Operator : SV128:ah
Date Inj'd : 8/31/2023 9:45 am Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 9/5/2023 11:58 am

Compound #25: Pentachlorophenol



Original Peak Response = 8898



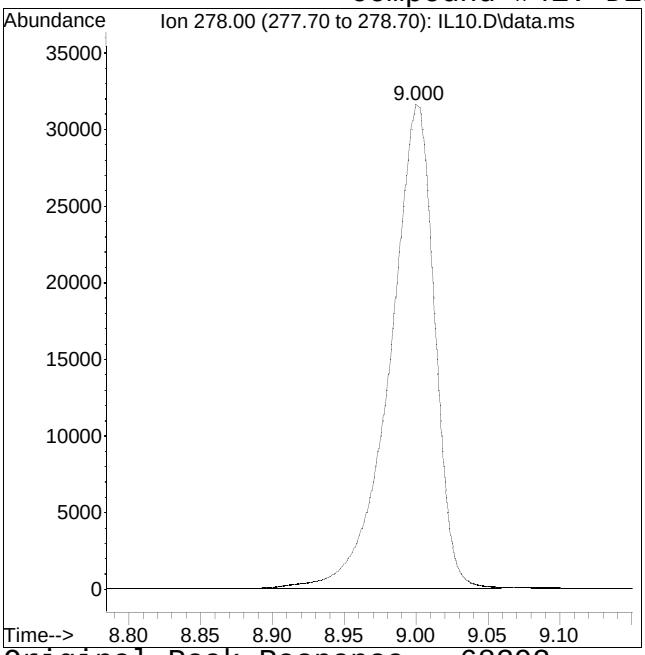
Manual Peak Response = 8852 M6

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

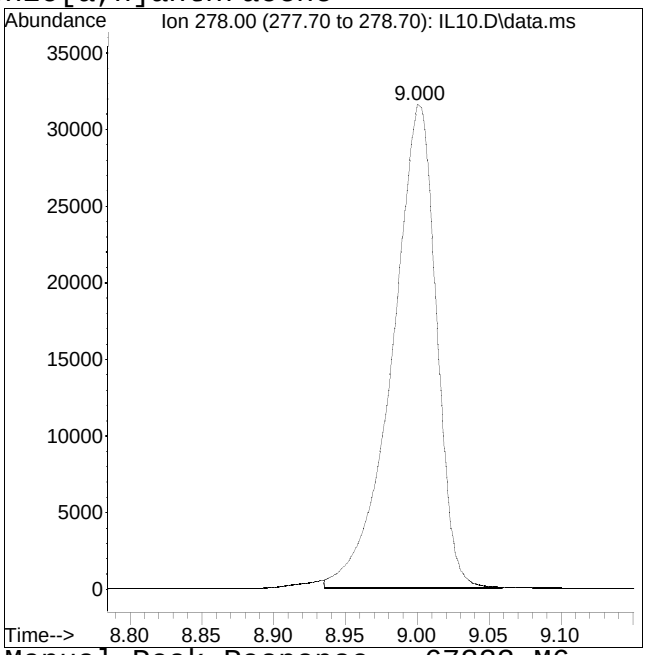
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL10.D Operator : SV128:ah
Date Inj'd : 8/31/2023 9:45 am Instrument : SV128
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 9/5/2023 11:58 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 68392



Manual Peak Response = 67333 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL9.D
Acq On : 31 Aug 2023 10:01 am
Operator : SV128:ah
Sample : IL9,32,, 10.0 Lot#10227
Misc : WG1823727,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 11:59:25 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:22 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.257	152	2355	4000.000	ng/ml	0.00
Standard Area 1 = 2292			Recovery = 102.75%			
8) Naphthalene-d8	2.923	136	9290M6	4000.000	ng/ml	0.00
Standard Area 1 = 8982			Recovery = 103.43%			
17) Acenaphthene-d10	3.901	164	5541	4000.000	ng/ml	0.00
Standard Area 1 = 5319			Recovery = 104.17%			
22) Phenanthrene-d10	4.750	188	12512	4000.000	ng/ml	0.00
Standard Area 1 = 12548			Recovery = 99.71%			
31) Chrysene-d12	6.326	240	11532	4000.000	ng/ml	0.00
Standard Area 1 = 11983			Recovery = 96.24%			
36) Perylene-d12	7.606	264	13119	4000.000	ng/ml	0.00
Standard Area 1 = 13430			Recovery = 97.68%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.651	112	6116	10163.013	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 203.26%#			
3) Phenol-d6	2.063	99	7637	10370.769	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 207.42%#			
7) Nitrobenzene-d5	2.538	82	6870	11006.337	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 440.25%#			
13) 2-Fluorobiphenyl	3.522	172	19718	10348.925	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 413.96%#			
21) 2,4,6-Tribromophenol	4.350	330	2791	11996.296	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 239.93%#			
30) 4-Terphenyl-d14	5.677	244	27580	10430.836	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 417.23%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.120	93	6563	10342.732	ng/ml	100
5) n-nitrosodi-n-propylamine	2.459	70	5149	10816.711	ng/ml	96
6) Hexachloroethane	2.517	117	2845	10049.124	ng/ml	90
9) Naphthalene	2.935	128	23000	10132.972	ng/ml#	100
10) Hexachlorobutadiene	3.009	225	4366M4	10229.433	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL9.D
Acq On : 31 Aug 2023 10:01 am
Operator : SV128:ah
Sample : IL9,32,, 10.0 Lot#10227
Misc : WG1823727,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 11:59:25 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:22 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
11) 2-Methylnaphthalene	3.314	142	15896	10491.917 ng/ml	99
12) 1-Methylnaphthalene	3.369	142	14732	10495.292 ng/ml	100
14) 2-Chloronaphthalene	3.586	162	16465	10482.718 ng/ml	95
15) 2,6-Dinitrotoluene	3.782	165	3846	12260.593 ng/ml	98
16) Acenaphthylene	3.821	152	27071	10822.633 ng/ml	100
18) Acenaphthene	3.919	153	18044	10277.704 ng/ml	93
19) 2,4-Dinitrotoluene	4.010	165	5101	12119.387 ng/ml	91
20) Fluorene	4.212	166	19732	10299.767 ng/ml	99
23) 4,6-Dinitro-o-cresol	4.243	198	2426M7	10296.103 ng/ml	
24) Hexachlorobenzene	4.531	284	7013	10437.374 ng/ml	98
25) Pentachlorophenol	4.643	266	4470M6	10259.844 ng/ml	
26) Phenanthrene	4.762	178	31594	10128.112 ng/ml	100
27) Anthracene	4.791	178	32598	10737.901 ng/ml	99
28) Fluoranthene	5.450	202	38318	10572.700 ng/ml	95
29) Pyrene	5.581	202	39502	10530.883 ng/ml	100
32) Benzo[a]anthracene	6.318	228	39844	9304.627 ng/ml	100
33) 3,3'-Dichlorobenzidine	6.309	252	16130	11215.222 ng/ml	100
34) Chrysene	6.345	228	37019	10404.671 ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.361	149	26981	12014.057 ng/ml	100
37) Benzo[b]fluoranthene	7.216	252	41676M4	11275.023 ng/ml	
38) Benzo[k]fluoranthene	7.241	252	37318	10909.347 ng/ml	100
39) Benzo[a]pyrene	7.543	252	36472	11488.900 ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.927	276	36277	11418.773 ng/ml	96
41) Dibenzo[a,h]anthracene	8.977	278	36243M6	11852.135 ng/ml	
42) Benzo[g,h,i]perylene	9.308	276	35377	10846.160 ng/ml	95

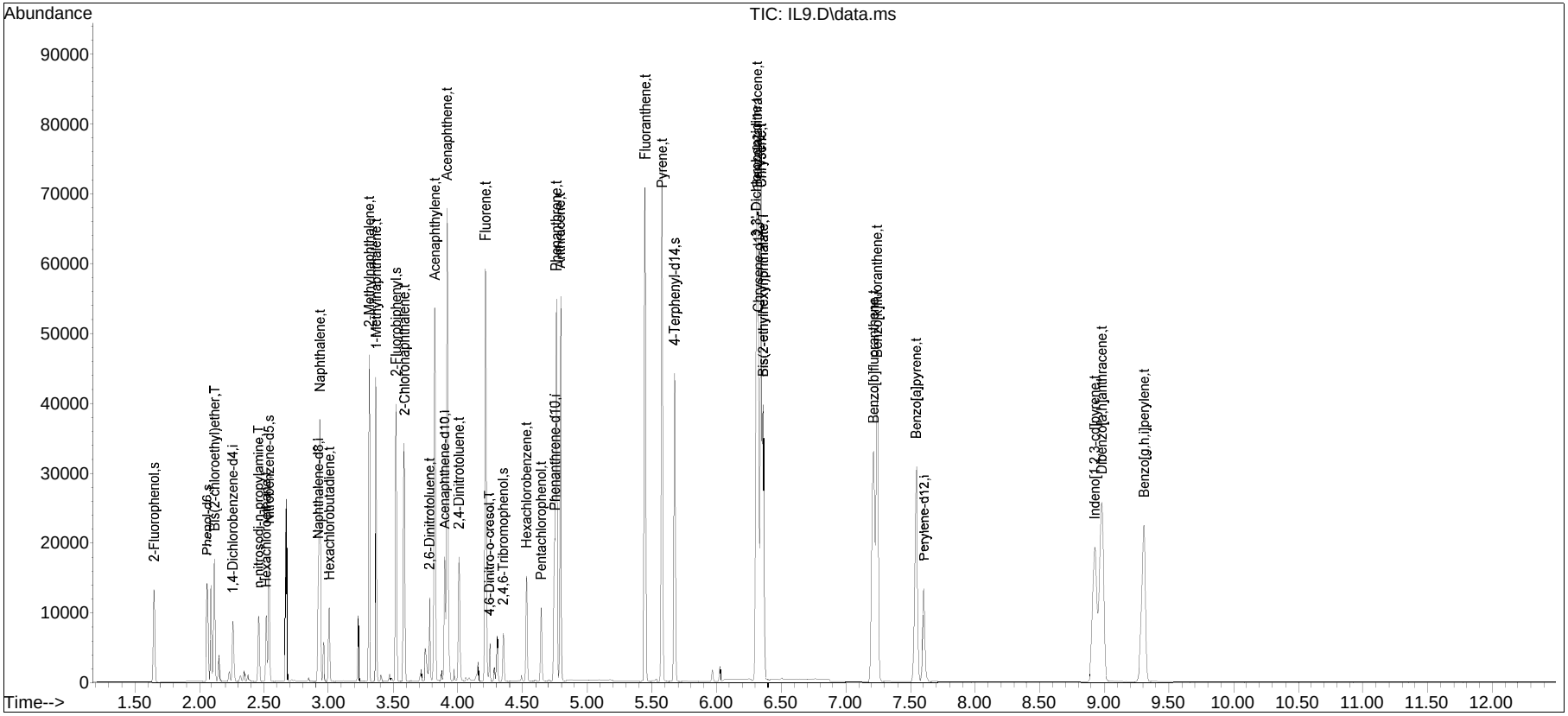
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL9.D
Acq On : 31 Aug 2023 10:01 am
Operator : SV128:ah
Sample : IL9,32,, 10.0 Lot#10227
Misc : WG1823727,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 11:59:25 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:22 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•

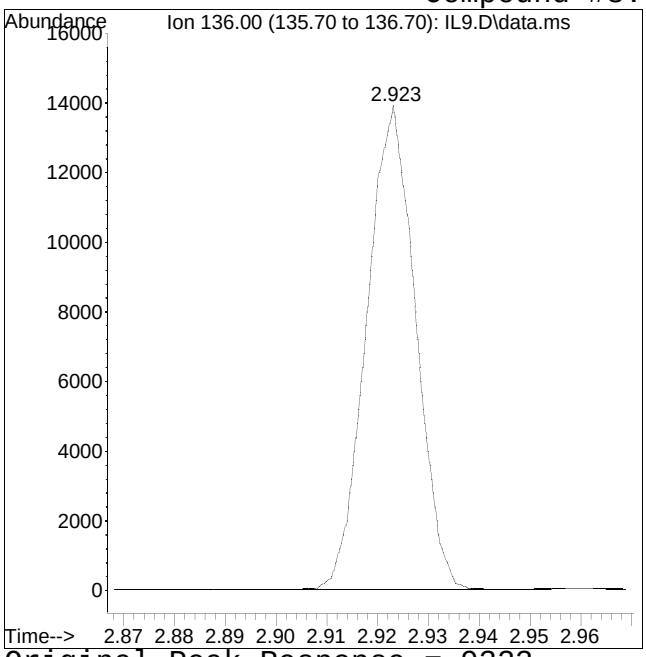


Manual Integration Report

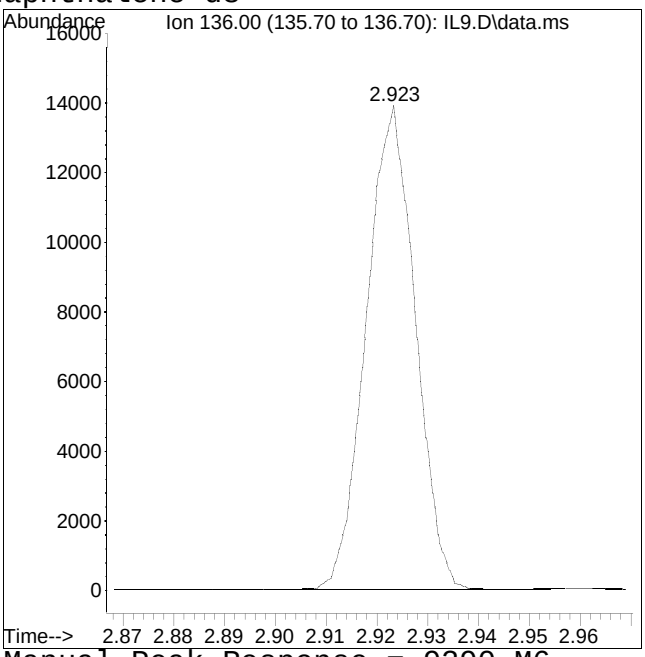
Data Path : I:\8270SIM\SV128\230831aLVQ
Data File : IL9.D
Date Inj'd : 8/31/2023 10:01 am
Sample : IL9,32,, 10.0 Lot#10227

Method : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 9/5/2023 11:59 am

Compound #8: Naphthalene-d8



Original Peak Response = 9323



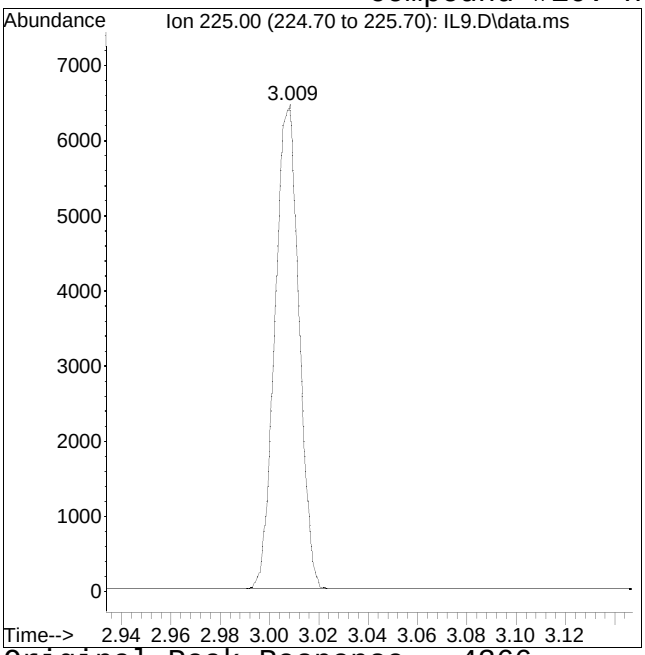
Manual Peak Response = 9290 M6

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

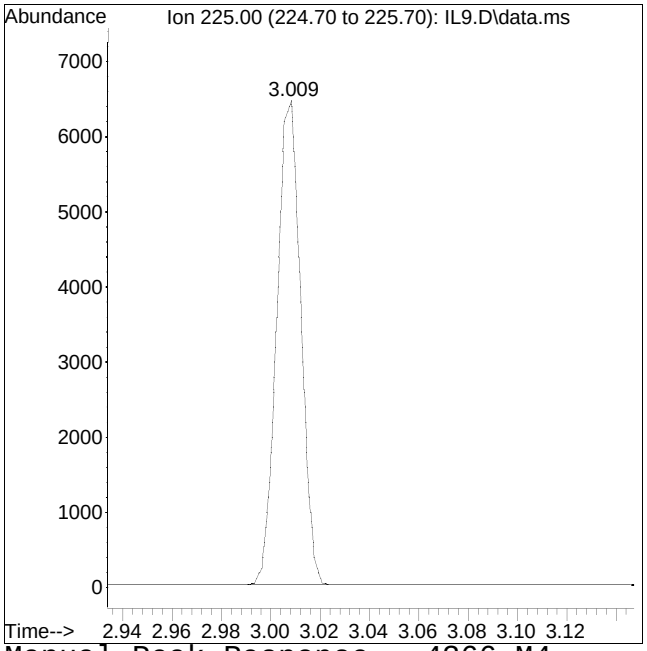
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL9.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:01 am Instrument : SV128
Sample : IL9,32,, 10.0 Lot#10227 Quant Date : 9/5/2023 11:59 am

Compound #10: Hexachlorobutadiene



Original Peak Response = 4366



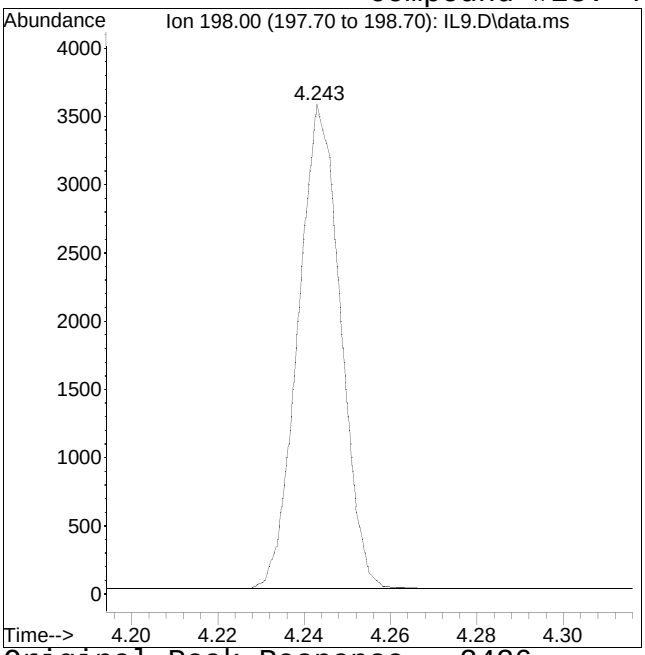
Manual Peak Response = 4366 M4

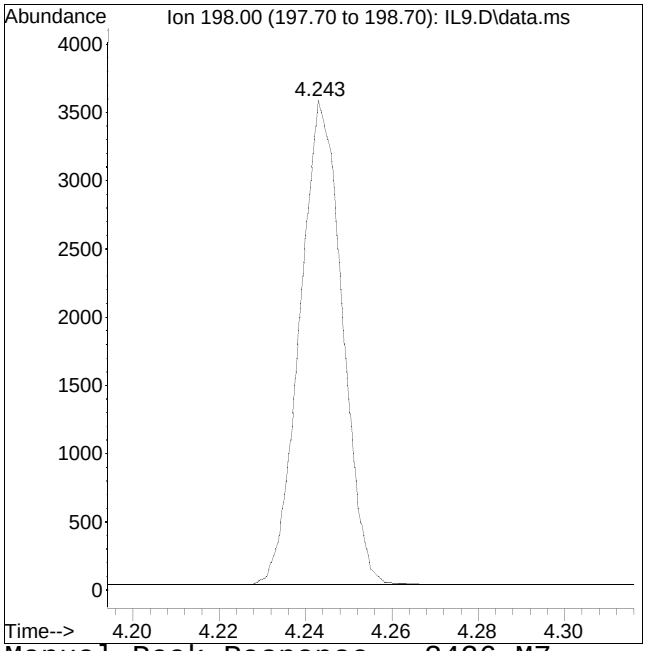
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL9.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:01 am Instrument : SV128
Sample : IL9,32,, 10.0 Lot#10227 Quant Date : 9/5/2023 11:59 am

Compound #23: 4,6-Dinitro-o-cresol



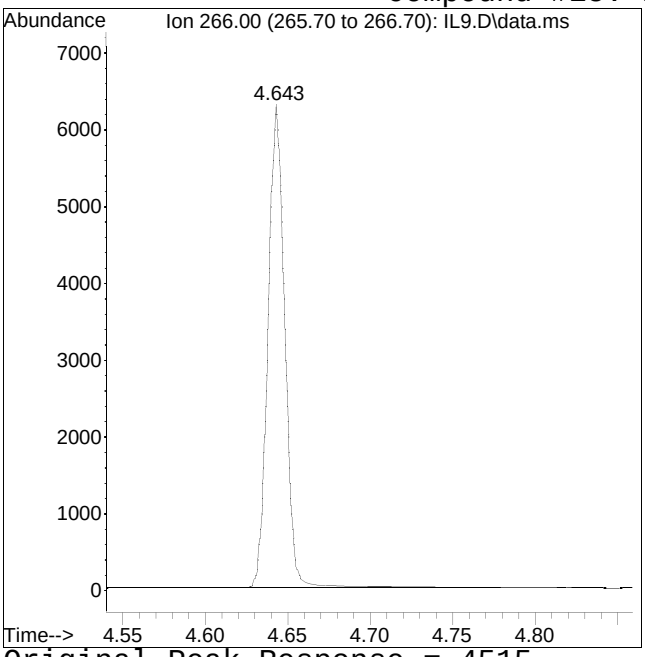


Original Peak Response = 2426 Manual Peak Response = 2426 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

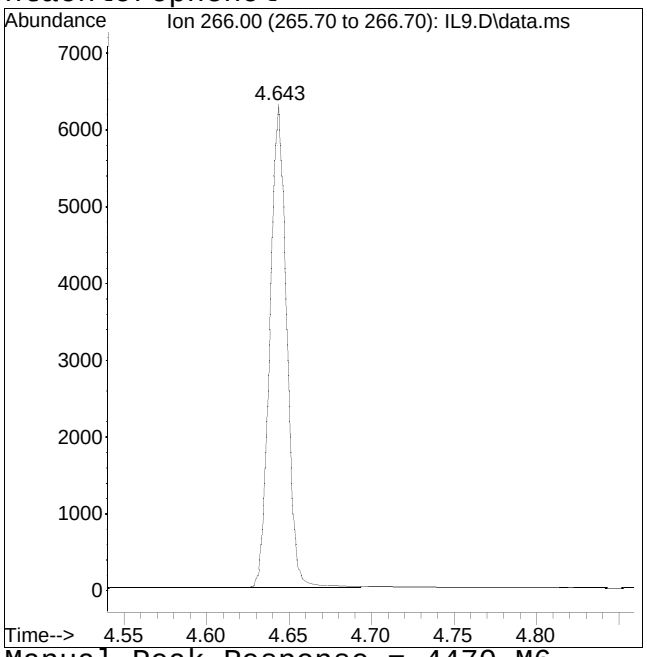
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL9.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:01 am Instrument : SV128
Sample : IL9,32,, 10.0 Lot#10227 Quant Date : 9/5/2023 11:59 am

Compound #25: Pentachlorophenol



Original Peak Response = 4515



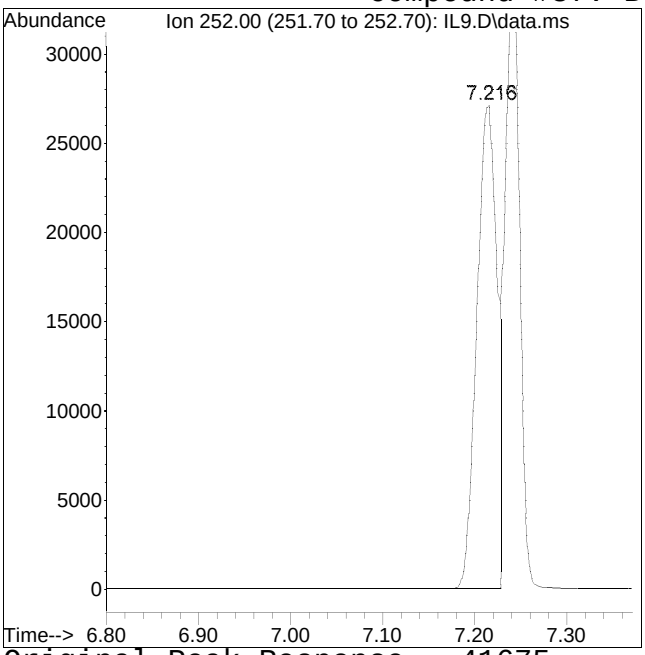
Manual Peak Response = 4470 M6

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

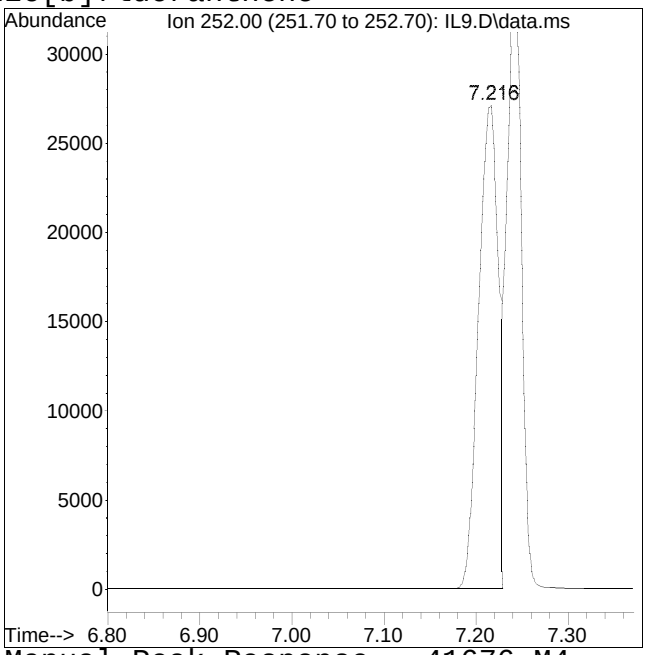
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL9.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:01 am Instrument : SV128
Sample : IL9,32,, 10.0 Lot#10227 Quant Date : 9/5/2023 11:59 am

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 41675



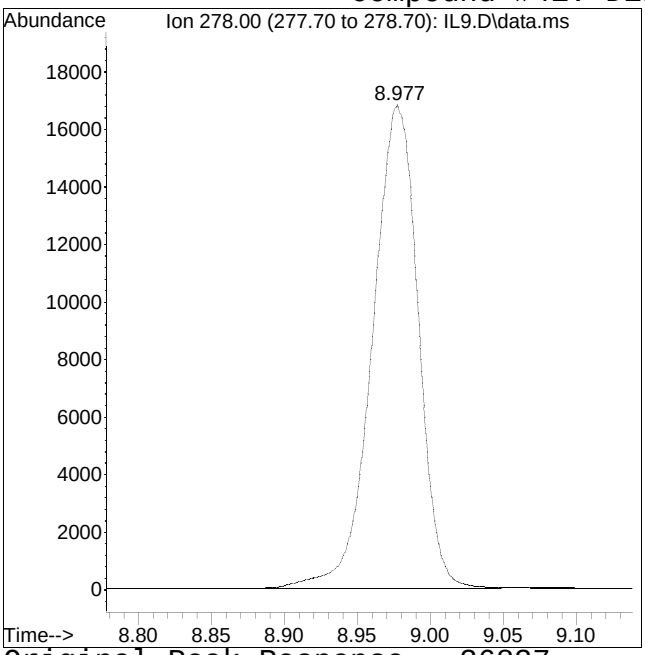
Manual Peak Response = 41676 M4

M4 = Poor automated baseline construction.

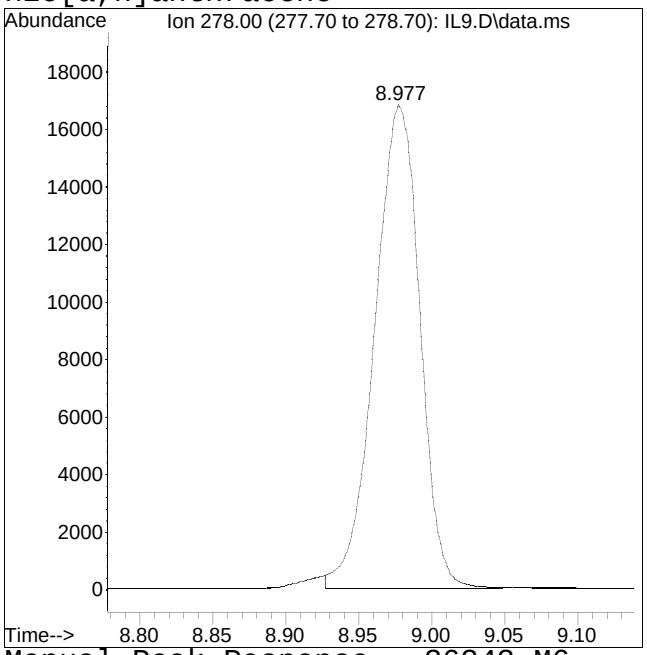
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL9.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:01 am Instrument : SV128
Sample : IL9,32,, 10.0 Lot#10227 Quant Date : 9/5/2023 11:59 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 36837



Manual Peak Response = 36243 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL8.D
Acq On : 31 Aug 2023 10:17 am
Operator : SV128:ah
Sample : IL8,32,, 5.0 Lot#10228
Misc : WG1823727,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 11:59:19 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:17 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.258	152	2396	4000.000	ng/ml	0.00
Standard Area 1 = 2292			Recovery = 104.54%			
8) Naphthalene-d8	2.922	136	9576	4000.000	ng/ml	0.00
Standard Area 1 = 8982			Recovery = 106.61%			
17) Acenaphthene-d10	3.902	164	5705	4000.000	ng/ml	0.00
Standard Area 1 = 5319			Recovery = 107.26%			
22) Phenanthrene-d10	4.748	188	12921	4000.000	ng/ml	0.00
Standard Area 1 = 12548			Recovery = 102.97%			
31) Chrysene-d12	6.325	240	12117	4000.000	ng/ml	0.00
Standard Area 1 = 11983			Recovery = 101.12%			
36) Perylene-d12	7.605	264	13630	4000.000	ng/ml	0.00
Standard Area 1 = 13430			Recovery = 101.49%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.651	112	3192	5213.411	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 104.27%			
3) Phenol-d6	2.065	99	3997	5334.902	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 106.70%			
7) Nitrobenzene-d5	2.537	82	3581	5638.901	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 225.56%#			
13) 2-Fluorobiphenyl	3.520	172	10378	5284.180	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 211.37%#			
21) 2,4,6-Tribromophenol	4.351	330	1407	5873.729	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 117.47%#			
30) 4-Terphenyl-d14	5.676	244	14575	5337.821	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 213.51%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.118	93	3396	5260.229	ng/ml	98
5) n-nitrosodi-n-propylamine	2.457	70	2678M6	5529.515	ng/ml	
6) Hexachloroethane	2.518	117	1490	5172.926	ng/ml	91
9) Naphthalene	2.934	128	12071	5159.218	ng/ml#	100
10) Hexachlorobutadiene	3.007	225	2295	5216.535	ng/ml	99
11) 2-Methylnaphthalene	3.313	142	8305	5317.876	ng/ml	98
12) 1-Methylnaphthalene	3.371	142	7687	5312.773	ng/ml	100
14) 2-Chloronaphthalene	3.584	162	8646	5340.218	ng/ml	96
15) 2,6-Dinitrotoluene	3.780	165	1886M6	5832.778	ng/ml	
16) Acenaphthylene	3.820	152	14371	5573.746	ng/ml	100
18) Acenaphthene	3.917	153	9500	5255.565	ng/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL8.D
Acq On : 31 Aug 2023 10:17 am
Operator : SV128:ah
Sample : IL8,32,, 5.0 Lot#10228
Misc : WG1823727,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 11:59:19 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:17 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) 2,4-Dinitrotoluene	4.009	165	2520	5815.116	ng/ml	94
20) Fluorene	4.211	166	10410	5277.637	ng/ml	99
23) 4,6-Dinitro-o-cresol	4.241	198	1178	4959.808	ng/ml#	76
24) Hexachlorobenzene	4.533	284	3699	5330.922	ng/ml	98
25) Pentachlorophenol	4.642	266	2242M6	5029.817	ng/ml	
26) Phenanthrene	4.760	178	16719	5189.969	ng/ml	100
27) Anthracene	4.790	178	17206	5488.314	ng/ml	99
28) Fluoranthene	5.449	202	19831	5298.566	ng/ml#	94
29) Pyrene	5.580	202	21062	5437.208	ng/ml	100
32) Benzo[a]anthracene	6.317	228	21182	4998.469	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.306	252	8389	5551.281	ng/ml	100
34) Chrysene	6.344	228	19648	5255.712	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.360	149	13481	5712.988	ng/ml	100
37) Benzo[b]fluoranthene	7.212	252	21207	5522.243	ng/ml	100
38) Benzo[k]fluoranthene	7.237	252	20352	5726.541	ng/ml	100
39) Benzo[a]pyrene	7.539	252	19002	5761.334	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.918	276	18412	5578.198	ng/ml	96
41) Dibenzo[a,h]anthracene	8.965	278	18800M6	5917.458	ng/ml	
42) Benzo[g,h,i]perylene	9.281	276	18430	5438.576	ng/ml	96

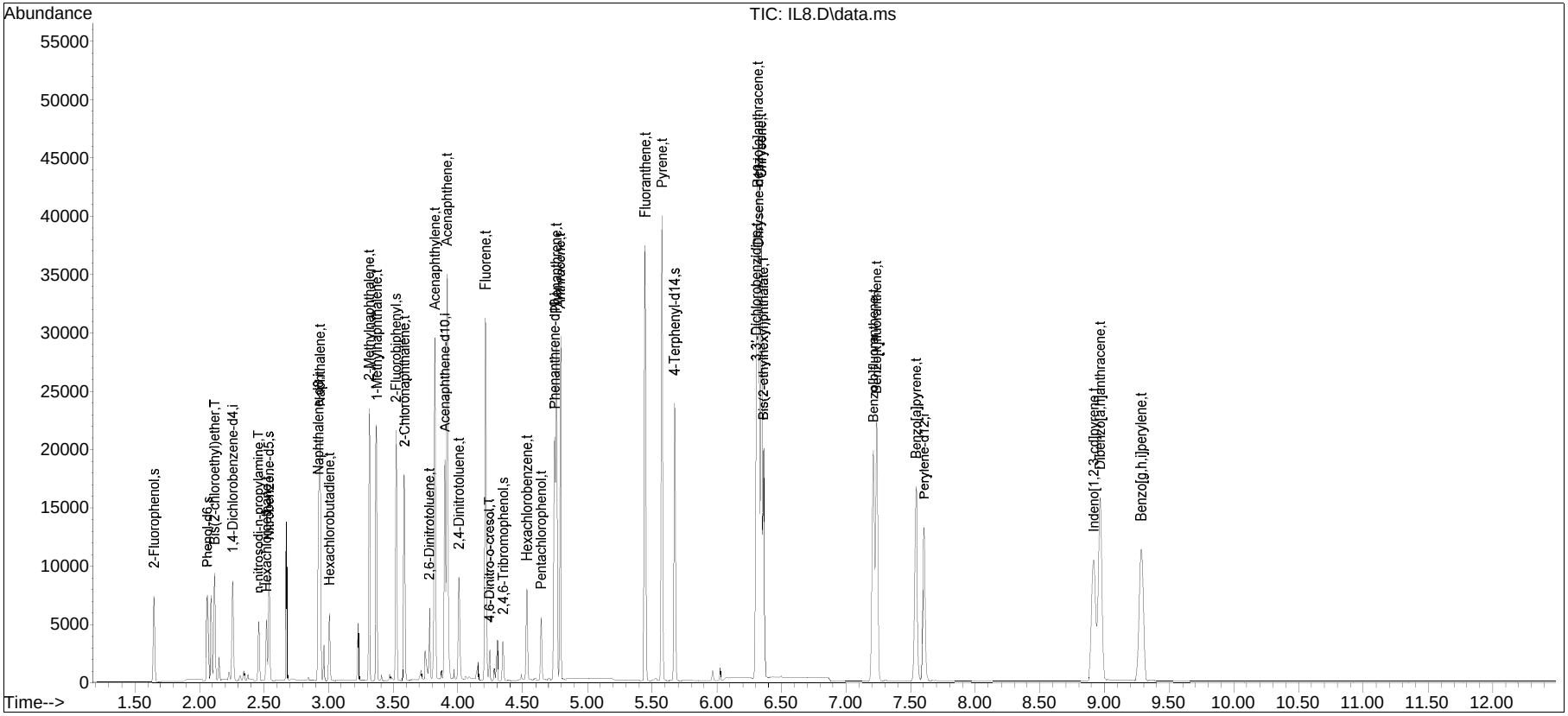
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL8.D
Acq On : 31 Aug 2023 10:17 am
Operator : SV128:ah
Sample : IL8,32,, 5.0 Lot#10228
Misc : WG1823727,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 11:59:19 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:17 2023
Response via : Initial Calibration

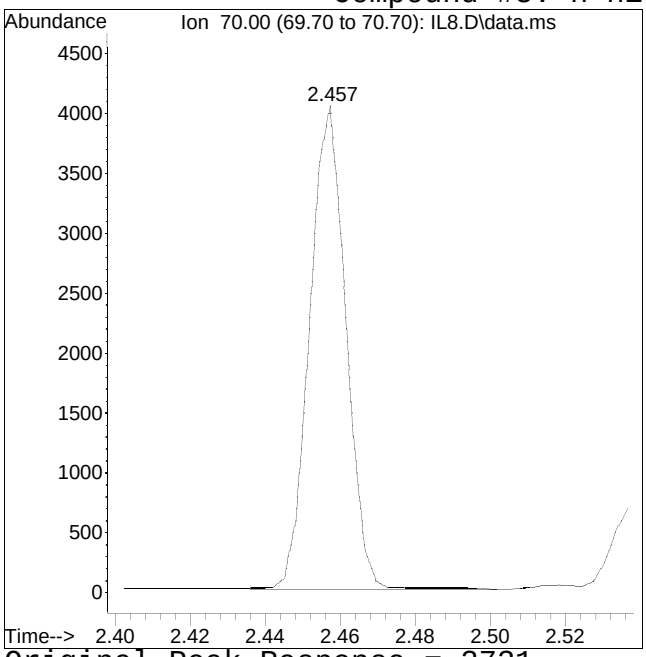
Sub List : Default - All compounds listedIical\IL7.D•



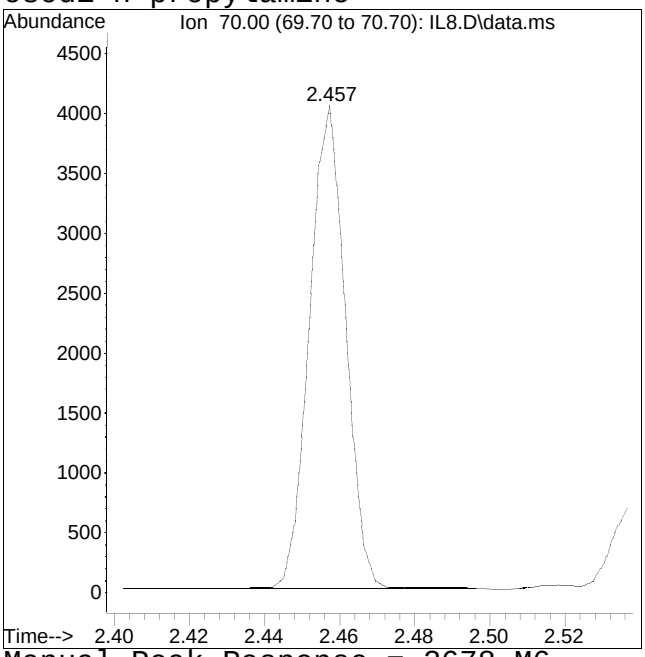
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL8.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:17 am Instrument : SV128
Sample : IL8,32,, 5.0 Lot#10228 Quant Date : 9/5/2023 11:59 am

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 2731



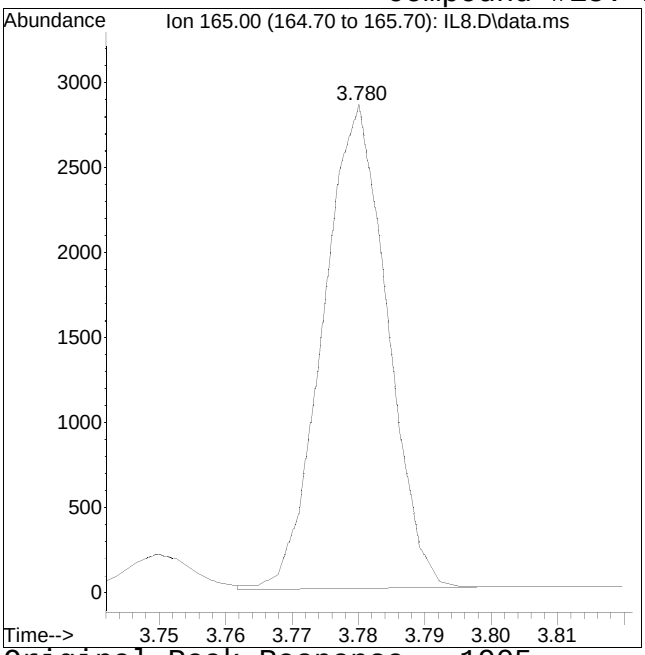
Manual Peak Response = 2678 M6

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

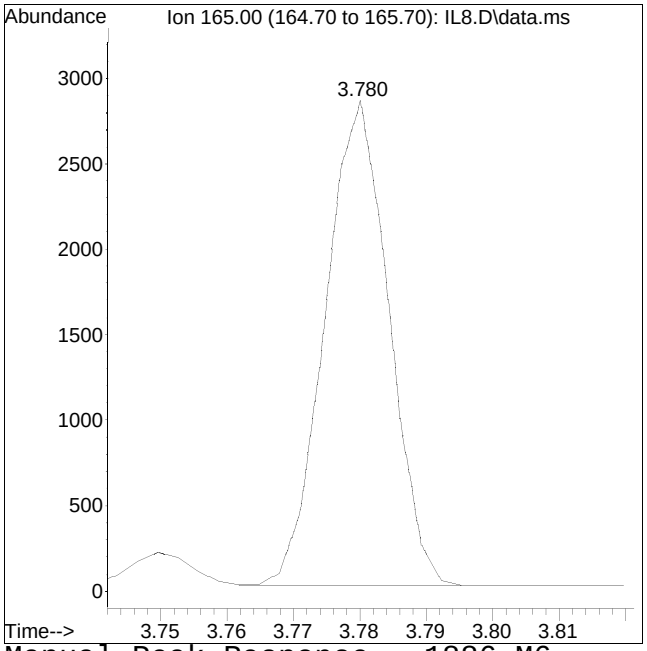
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL8.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:17 am Instrument : SV128
Sample : IL8,32,, 5.0 Lot#10228 Quant Date : 9/5/2023 11:59 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 1905



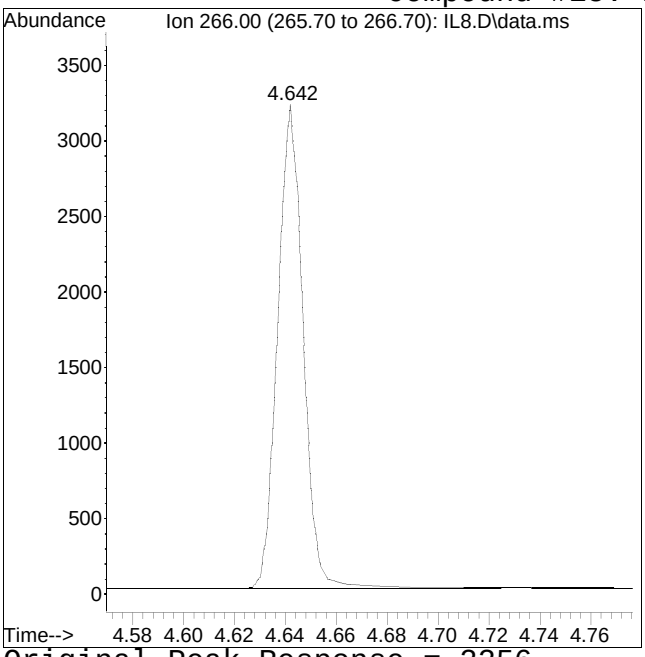
Manual Peak Response = 1886 M6

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

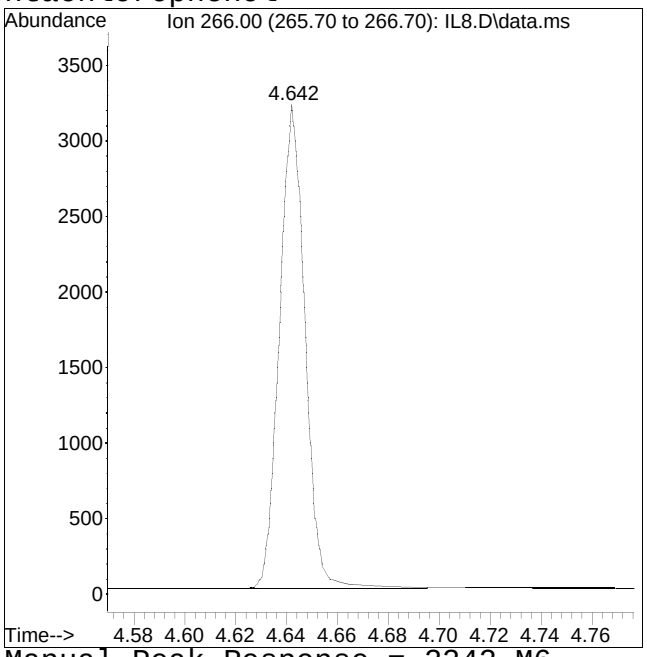
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL8.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:17 am Instrument : SV128
Sample : IL8,32,, 5.0 Lot#10228 Quant Date : 9/5/2023 11:59 am

Compound #25: Pentachlorophenol



Original Peak Response = 2256



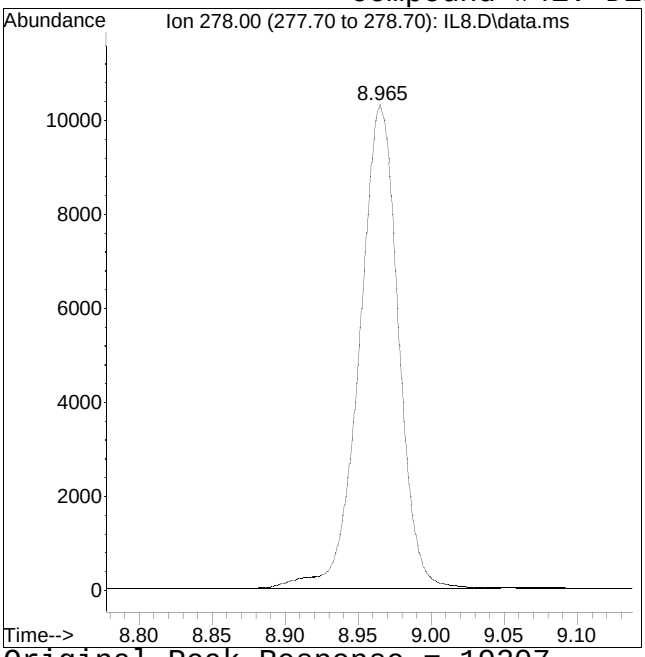
Manual Peak Response = 2242 M6

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

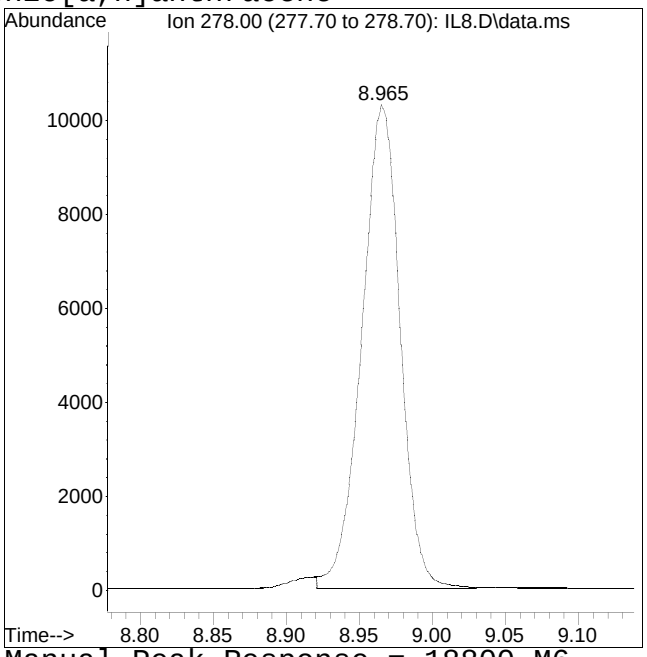
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL8.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:17 am Instrument : SV128
Sample : IL8,32,, 5.0 Lot#10228 Quant Date : 9/5/2023 11:59 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 19207



Manual Peak Response = 18800 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL7.D
Acq On : 31 Aug 2023 10:34 am
Operator : SV128:ah
Sample : IL7,32,, 1.0 Lot#10229
Misc : WG1823727,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 12:05:07 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:11 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.258	152	2292M2	4000.000	ng/ml	-0.06
Standard Area 1 = 2292			Recovery = 100.00%			
8) Naphthalene-d8	2.922	136	8982	4000.000	ng/ml	-0.08
Standard Area 1 = 8982			Recovery = 100.00%			
17) Acenaphthene-d10	3.902	164	5319	4000.000	ng/ml	-0.11
Standard Area 1 = 5319			Recovery = 100.00%			
22) Phenanthrene-d10	4.748	188	12548	4000.000	ng/ml	-0.13
Standard Area 1 = 12548			Recovery = 100.00%			
31) Chrysene-d12	6.324	240	11983	4000.000	ng/ml	-0.20
Standard Area 1 = 11983			Recovery = 100.00%			
36) Perylene-d12	7.604	264	13430M2	4000.000	ng/ml	-0.33
Standard Area 1 = 13430			Recovery = 100.00%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.654	112	605M2	1032.968	ng/ml	-0.04
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.66%			
3) Phenol-d6	2.064	99	745M3	1039.491	ng/ml	-0.05
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.79%			
7) Nitrobenzene-d5	2.537	82	650M2	1069.980	ng/ml	-0.07
Spiked Amount 2500.000	Range 30 - 130		Recovery = 42.80%			
13) 2-Fluorobiphenyl	3.520	172	1929	1047.146	ng/ml	-0.10
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.89%			
21) 2,4,6-Tribromophenol	4.348	330	236	1056.714	ng/ml	-0.12
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.13%			
30) 4-Terphenyl-d14	5.676	244	2792	1052.913	ng/ml	-0.15
Spiked Amount 2500.000	Range 30 - 130		Recovery = 42.12%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.121	93	647M3	1047.643	ng/ml	
5) n-nitrosodi-n-propylamine	2.458	70	485M3	1046.864	ng/ml	
6) Hexachloroethane	2.519	117	283M2	1027.090	ng/ml	
9) Naphthalene	2.934	128	2274	1036.197	ng/ml#	100
10) Hexachlorobutadiene	3.007	225	432	1046.874	ng/ml	100
11) 2-Methylnaphthalene	3.316	142	1539	1050.626	ng/ml	99
12) 1-Methylnaphthalene	3.368	142	1426	1050.739	ng/ml	100
14) 2-Chloronaphthalene	3.584	162	1602	1054.915	ng/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL7.D
Acq On : 31 Aug 2023 10:34 am
Operator : SV128:ah
Sample : IL7,32,, 1.0 Lot#10229
Misc : WG1823727,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 12:05:07 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:11 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2,6-Dinitrotoluene	3.780	165	288M4	949.593	ng/ml	
16) Acenaphthylene	3.820	152	2582	1067.647	ng/ml	100
18) Acenaphthene	3.918	153	1761	1044.915	ng/ml	94
19) 2,4-Dinitrotoluene	4.009	165	391	967.743	ng/ml	97
20) Fluorene	4.211	166	1946	1058.175	ng/ml	100
23) 4,6-Dinitro-o-cresol	4.239	198	185M6	862.661	ng/ml	
24) Hexachlorobenzene	4.533	284	702	1041.782	ng/ml	98
25) Pentachlorophenol	4.642	266	369M6	875.107	ng/ml	
26) Phenanthrene	4.760	178	3211	1026.399	ng/ml	100
27) Anthracene	4.790	178	3202M6	1051.724	ng/ml	
28) Fluoranthene	5.449	202	3769	1036.959	ng/ml	96
29) Pyrene	5.580	202	3962	1053.204	ng/ml	100
32) Benzo[a]anthracene	6.316	228	4010	1009.967	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.305	252	1458M6	975.596	ng/ml	
34) Chrysene	6.341	228	3800	1027.842	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.360	149	2178M6	933.316	ng/ml	
37) Benzo[b]fluoranthene	7.208	252	3826M3	1011.116	ng/ml	
38) Benzo[k]fluoranthene	7.233	252	3859M3	1101.996	ng/ml	
39) Benzo[a]pyrene	7.538	252	3454M2	1062.835	ng/ml	
40) Indeno[1,2,3-cd]pyrene	8.911	276	3264M3	1003.605	ng/ml	
41) Dibenzo[a,h]anthracene	8.958	278	3385M2	1081.324	ng/ml	
42) Benzo[g,h,i]perylene	9.268	276	3393M2	1016.163	ng/ml	

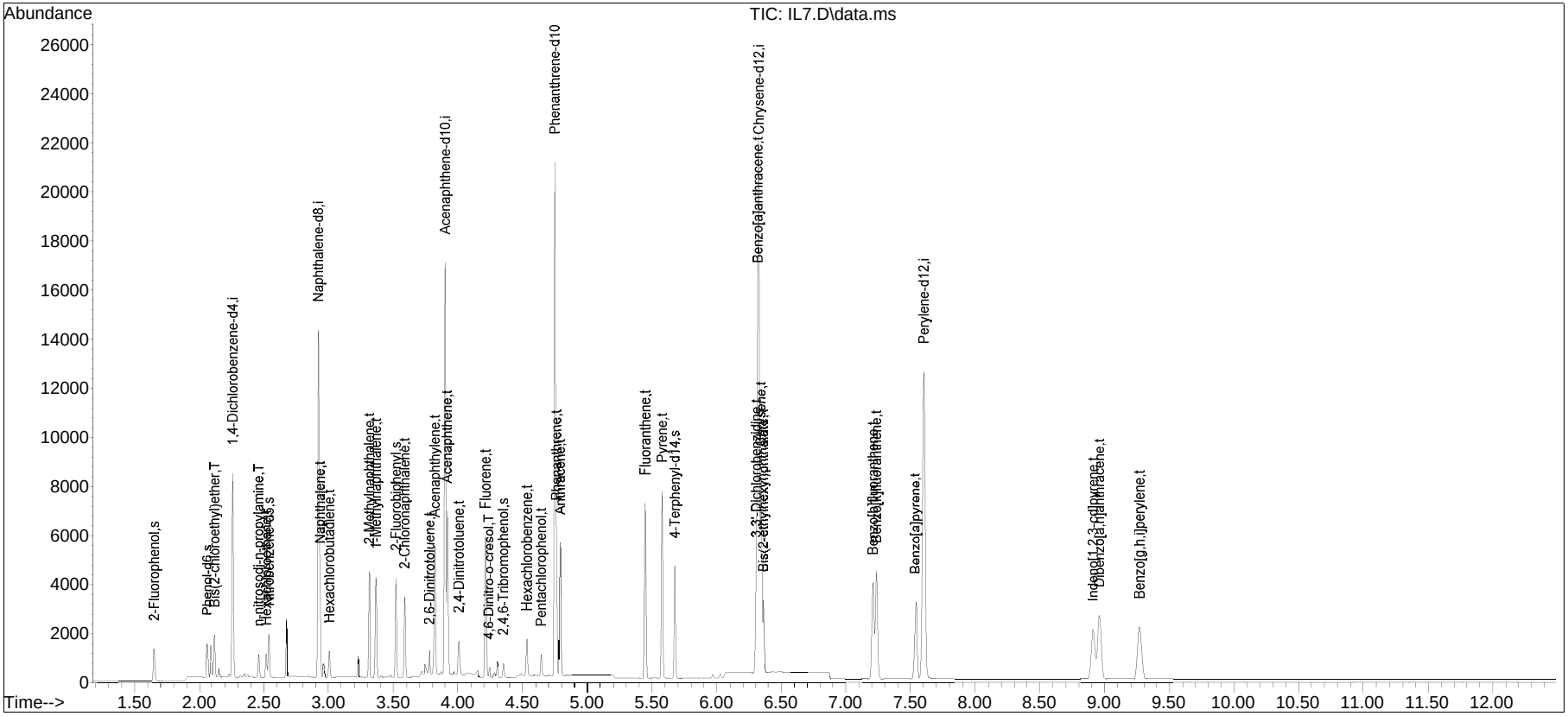
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL7.D
Acq On : 31 Aug 2023 10:34 am
Operator : SV128:ah
Sample : IL7,32,, 1.0 Lot#10229
Misc : WG1823727,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 05 12:05:07 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:11 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•

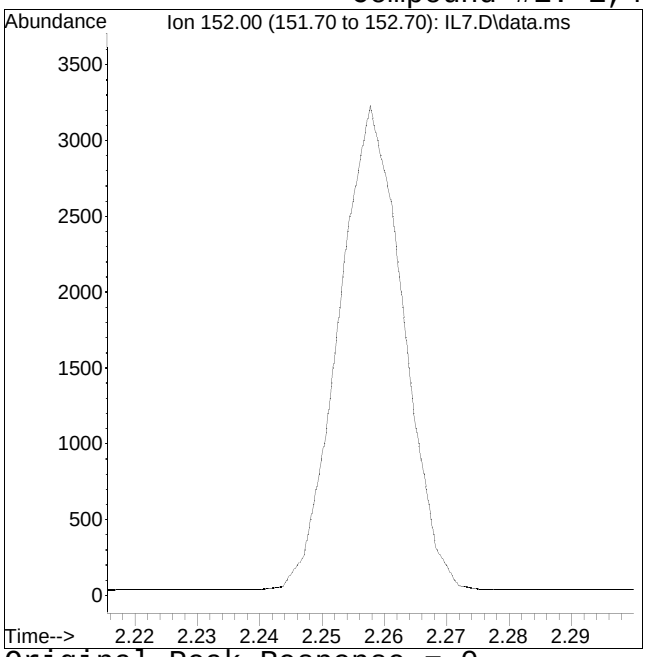


Manual Integration Report

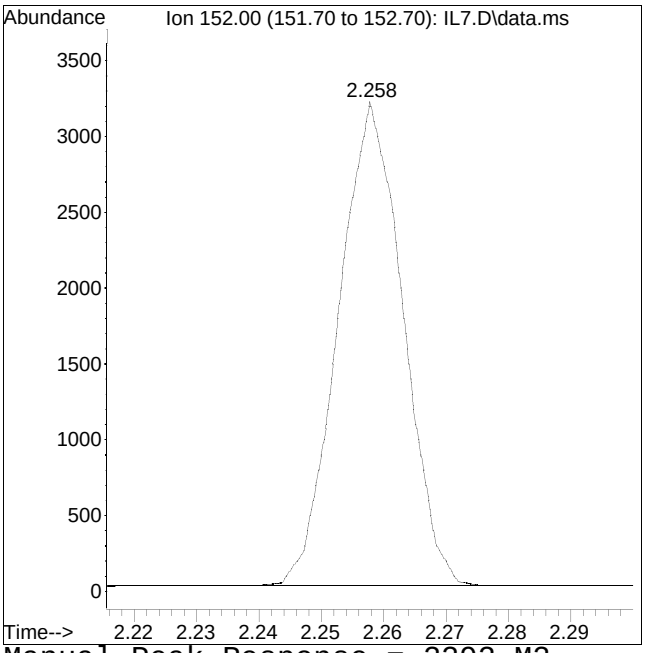
Data Path : I:\8270SIM\SV128\230831aLVQ
Data File : IL7.D
Date Inj'd : 8/31/2023 10:34 am
Sample : IL7,32,, 1.0 Lot#10229

Method : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 9/5/2023 11:59 am

Compound #1: 1,4-Dichlorobenzene-d4



Original Peak Response = 0



Manual Peak Response = 2292 M2

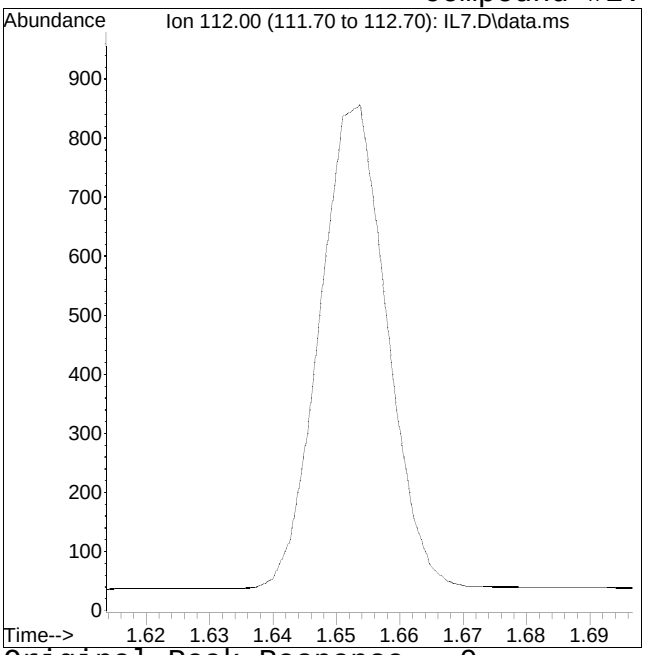
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

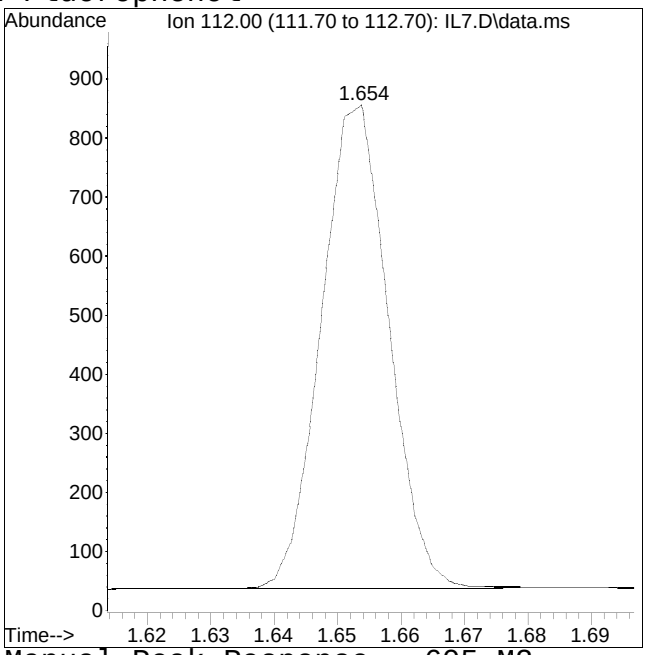
Data Path : I:\8270SIM\SV128\230831aLVQ
Data File : IL7.D
Date Inj'd : 8/31/2023 10:34 am
Sample : IL7,32,, 1.0 Lot#10229

Method : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 9/5/2023 11:59 am

Compound #2: 2-Fluorophenol



Original Peak Response = 0



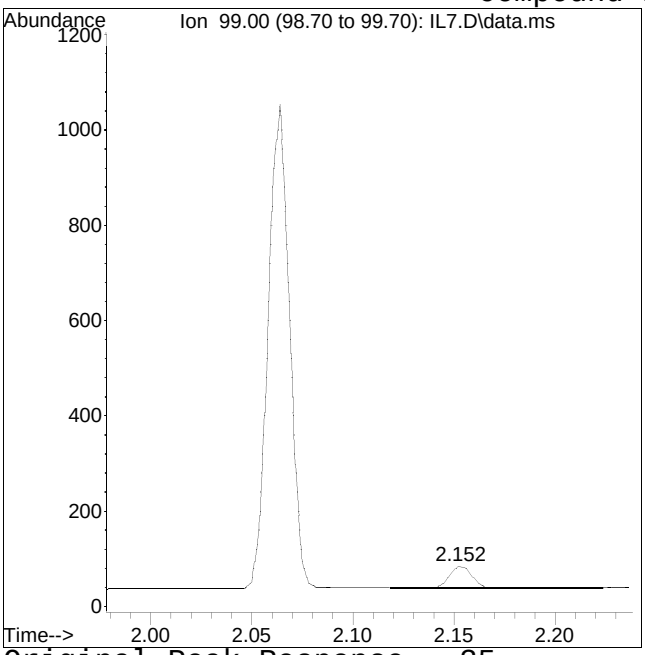
Manual Peak Response = 605 M2

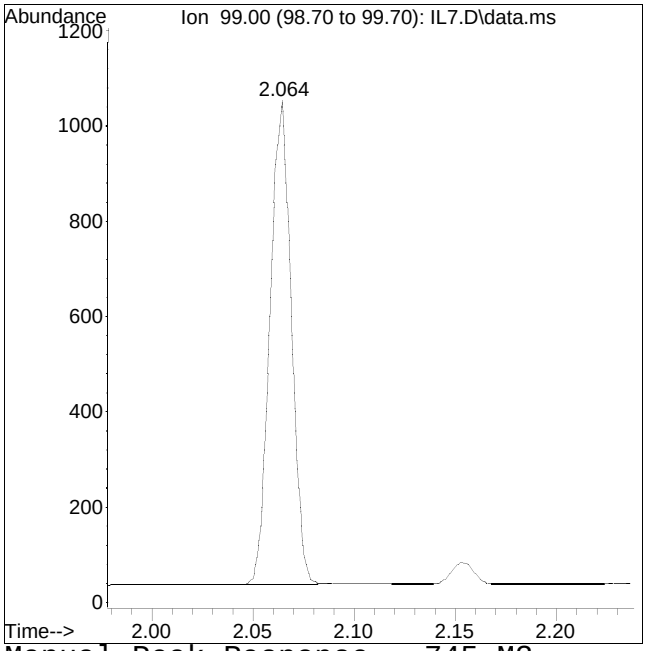
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #3: Phenol-d6



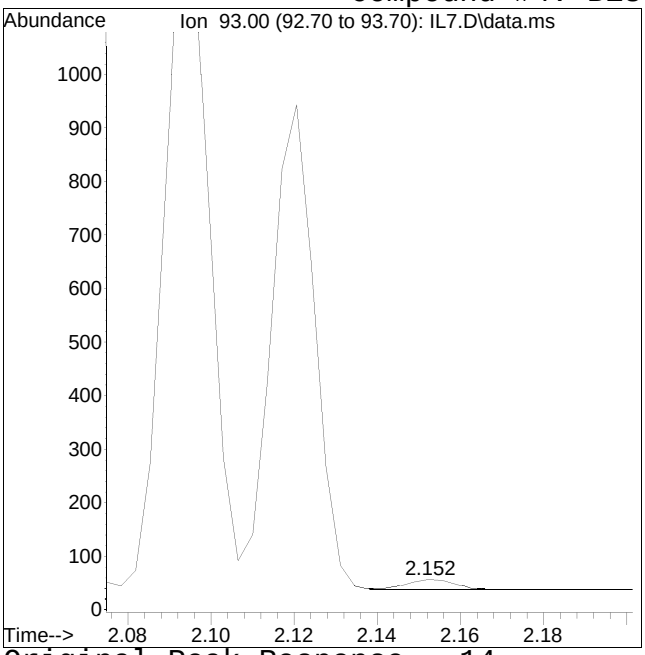


Original Peak Response = 35 Manual Peak Response = 745 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

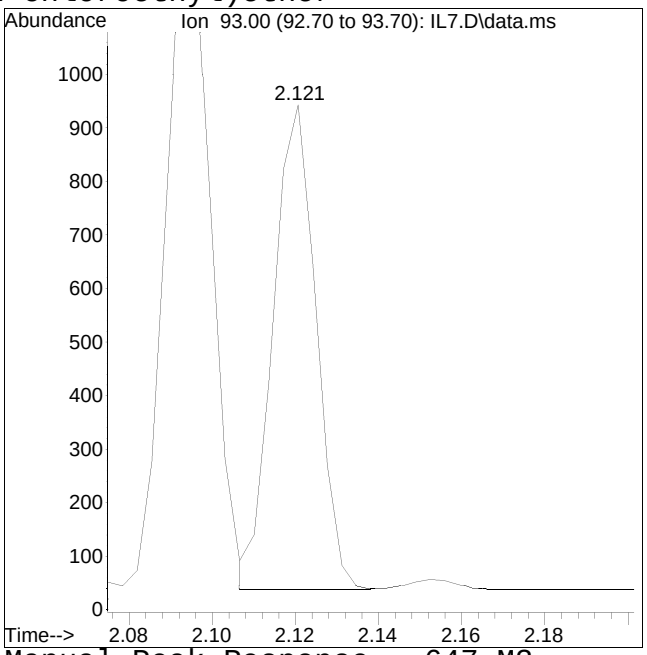
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 14



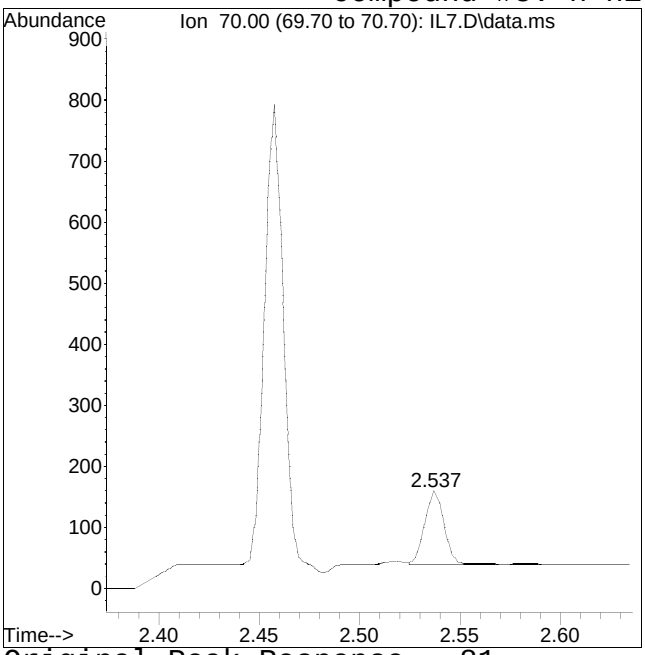
Manual Peak Response = 647 M3

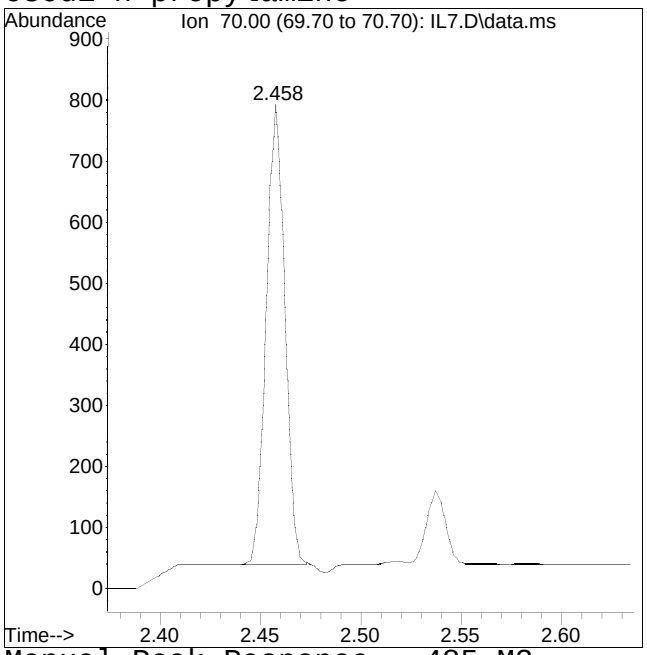
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #5: n-nitrosodi-n-propylamine



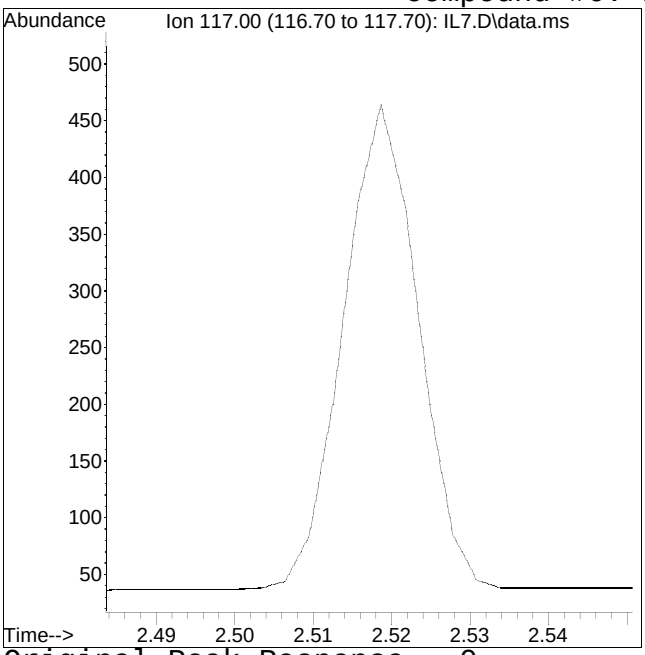


Original Peak Response = 81 Manual Peak Response = 485 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

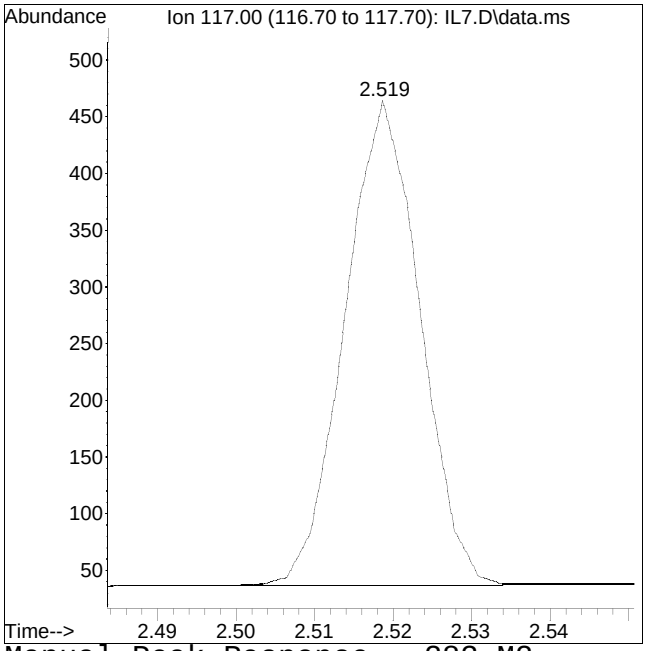
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #6: Hexachloroethane



Original Peak Response = 0



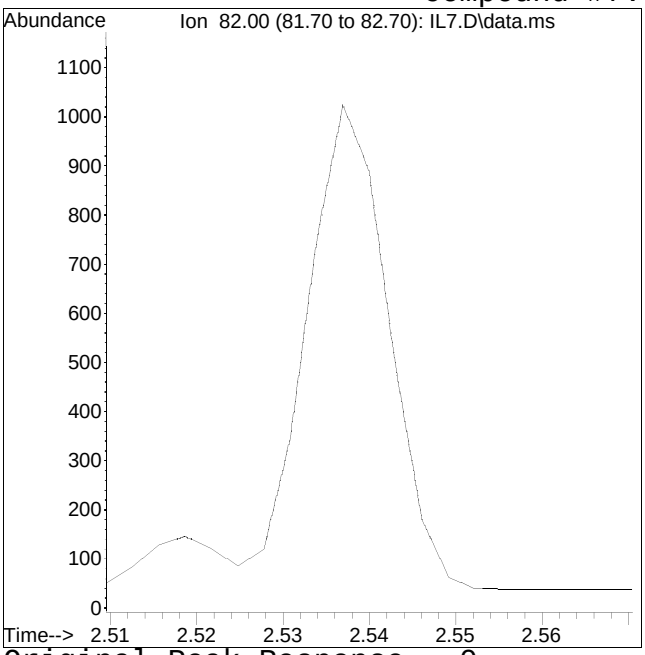
Manual Peak Response = 283 M2

M2 = Peak not found by automatic integration algorithm.

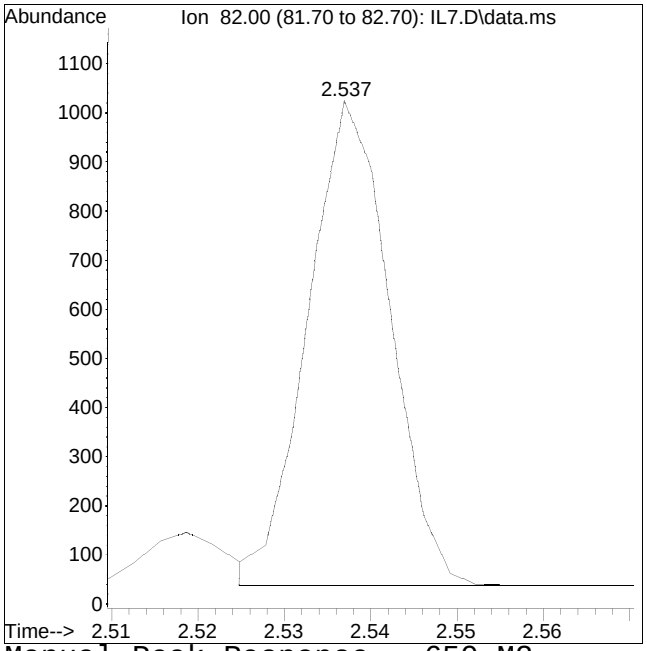
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #7: Nitrobenzene-d5



Original Peak Response = 0



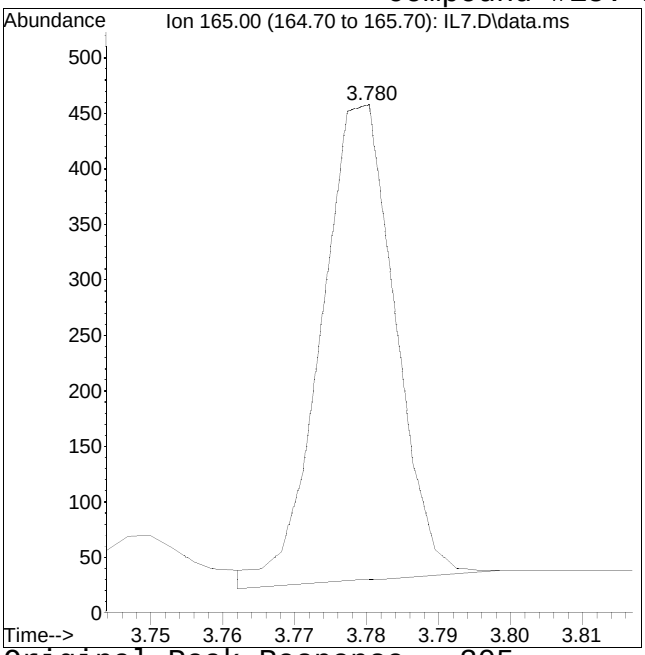
Manual Peak Response = 650 M2

M2 = Peak not found by automatic integration algorithm.

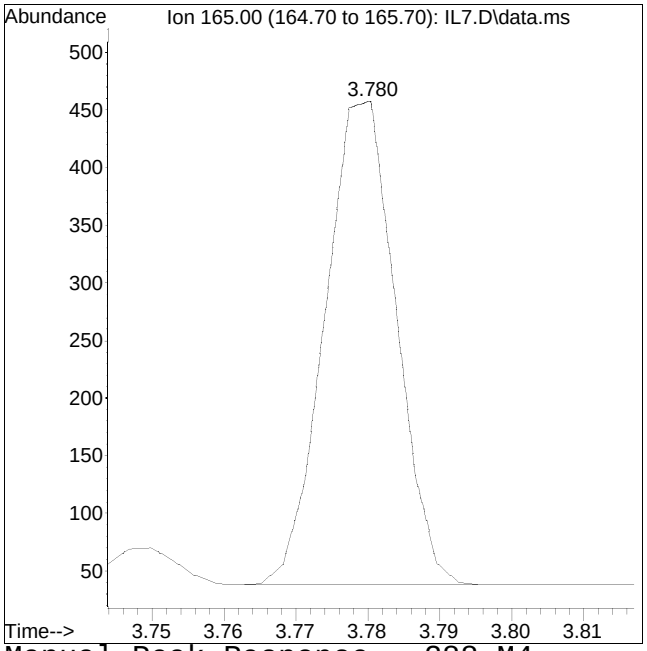
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 305



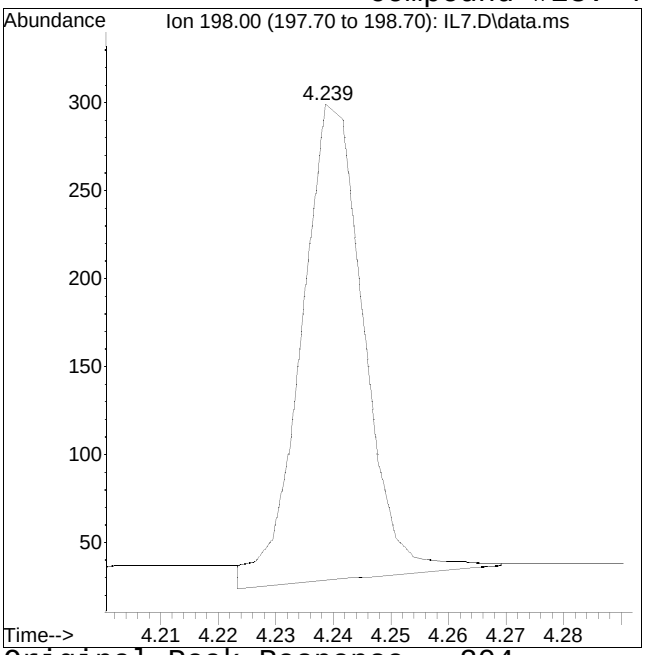
Manual Peak Response = 288 M4

M4 = Poor automated baseline construction.

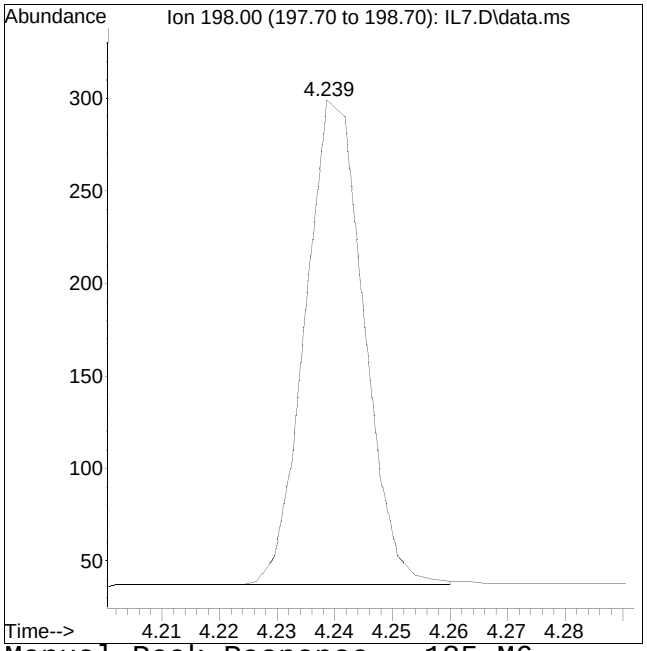
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 204



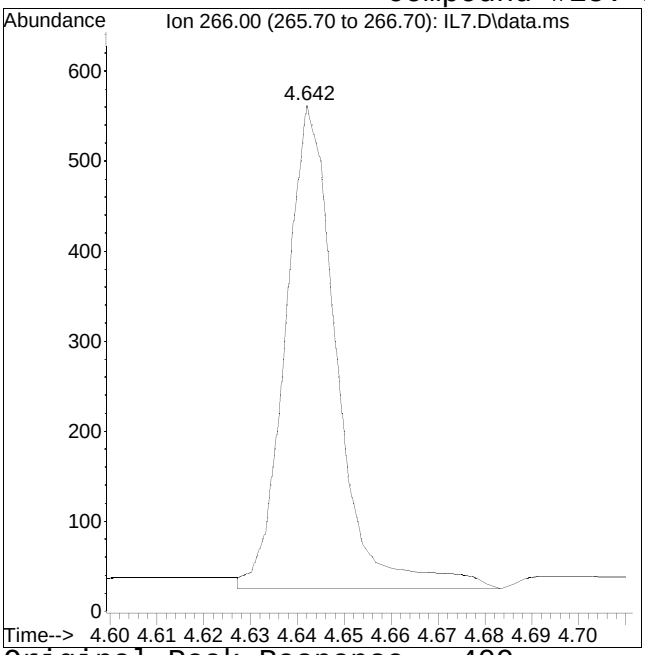
Manual Peak Response = 185 M6

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

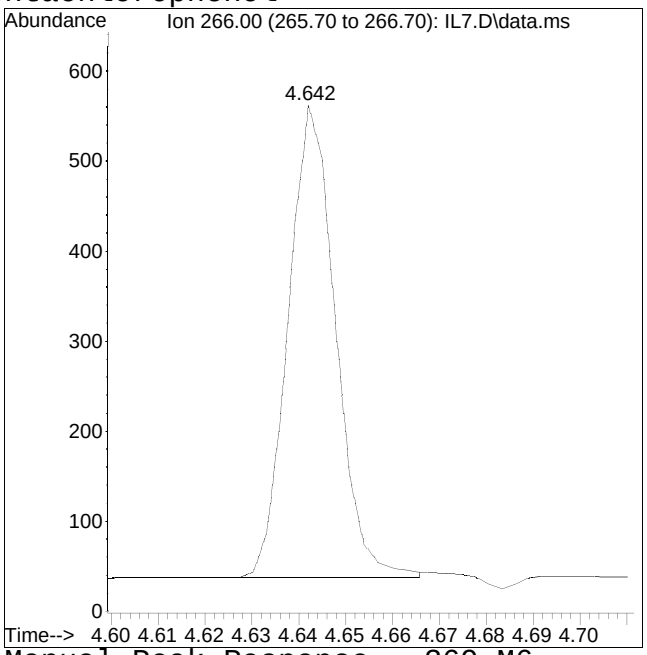
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #25: Pentachlorophenol



Original Peak Response = 409



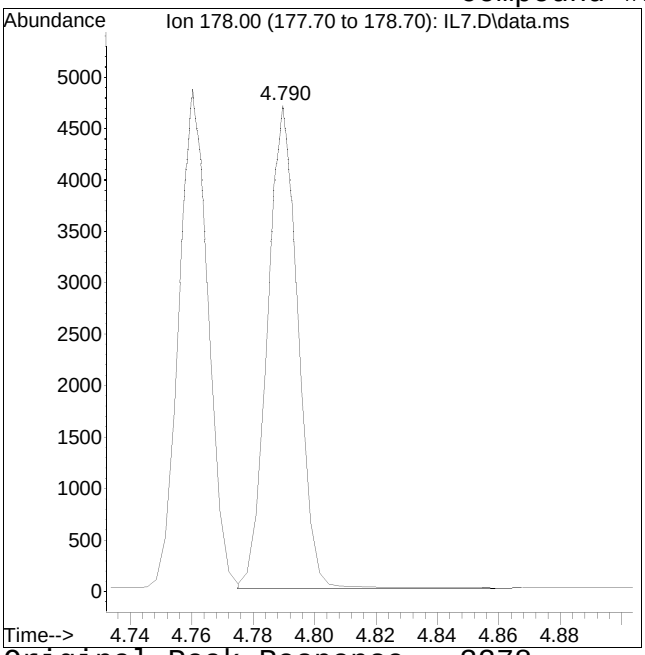
Manual Peak Response = 369 M6

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

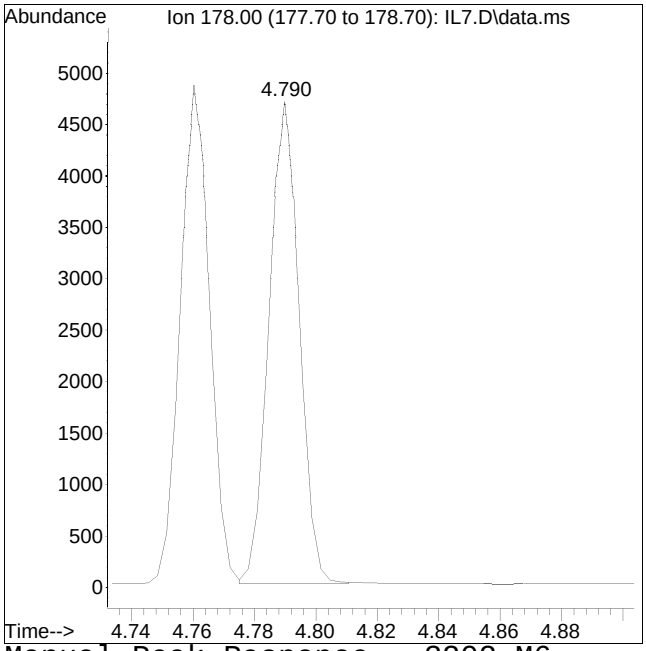
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #27: Anthracene



Original Peak Response = 3278



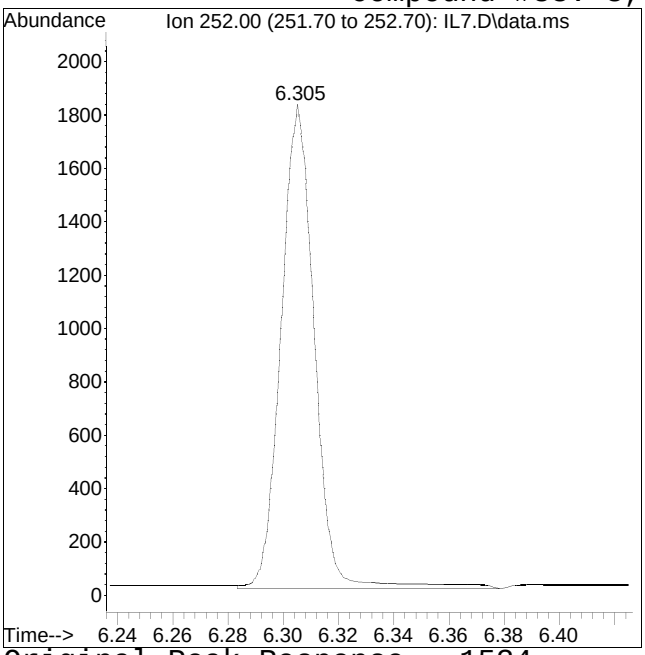
Manual Peak Response = 3202 M6

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

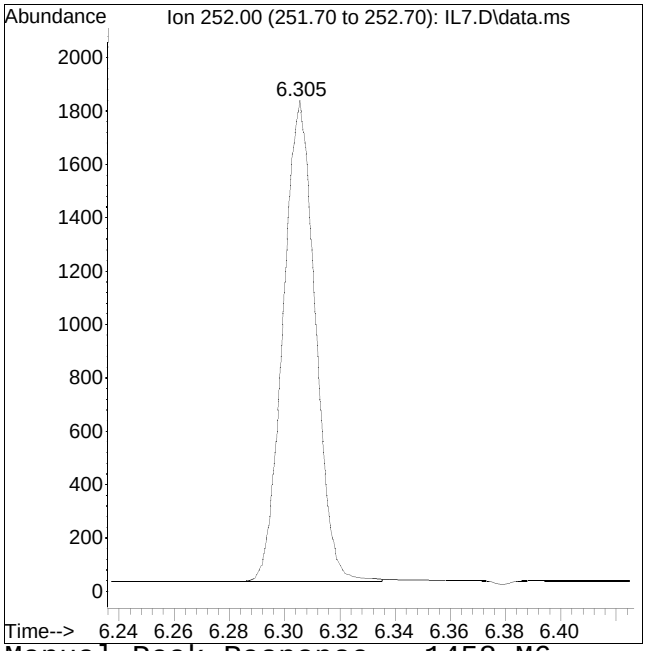
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #33: 3,3'-Dichlorobenzidine



Original Peak Response = 1534



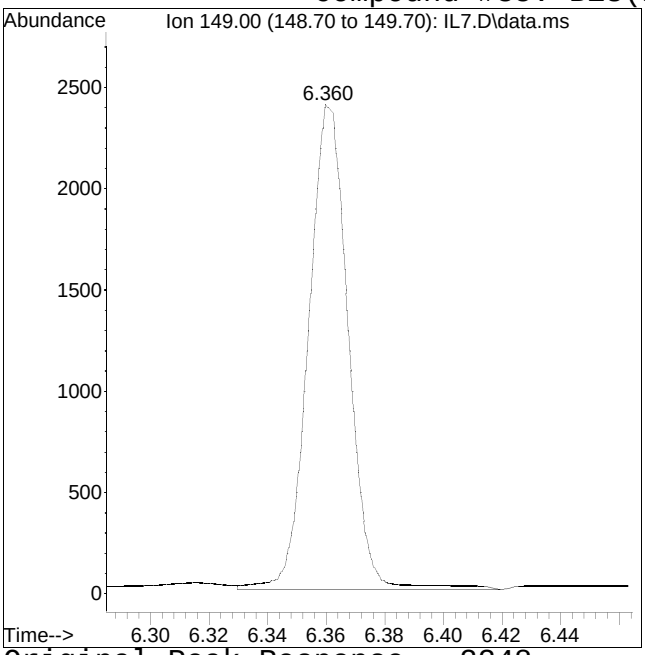
Manual Peak Response = 1458 M6

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

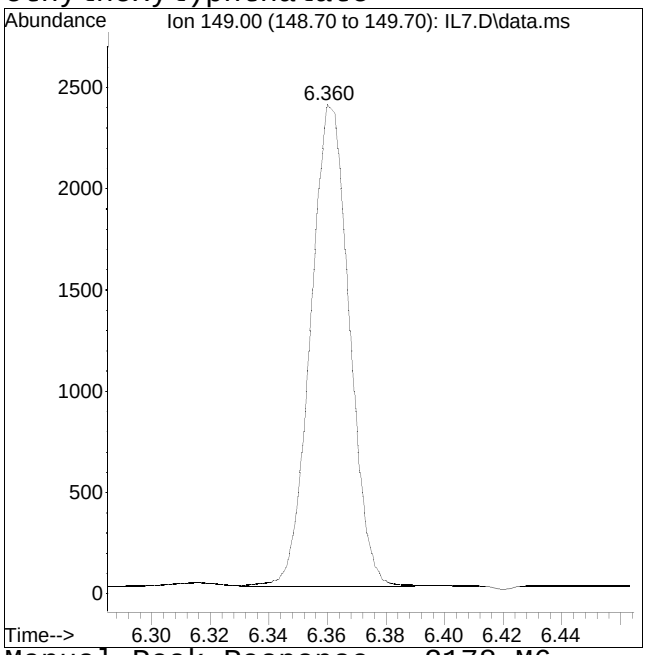
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 2248



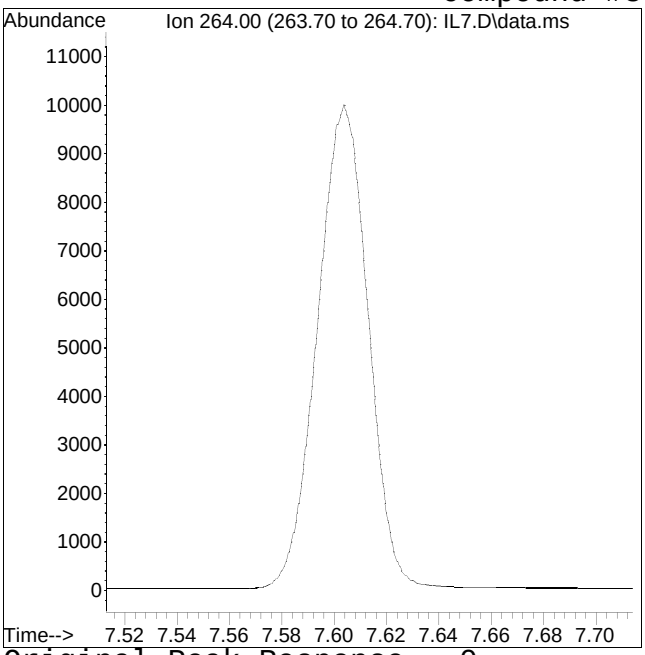
Manual Peak Response = 2178 M6

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

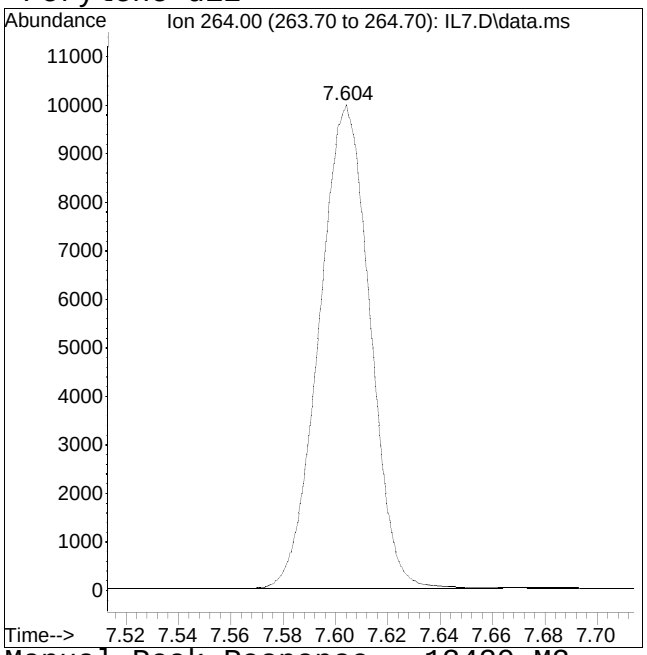
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #36: Perylene-d12



Original Peak Response = 0



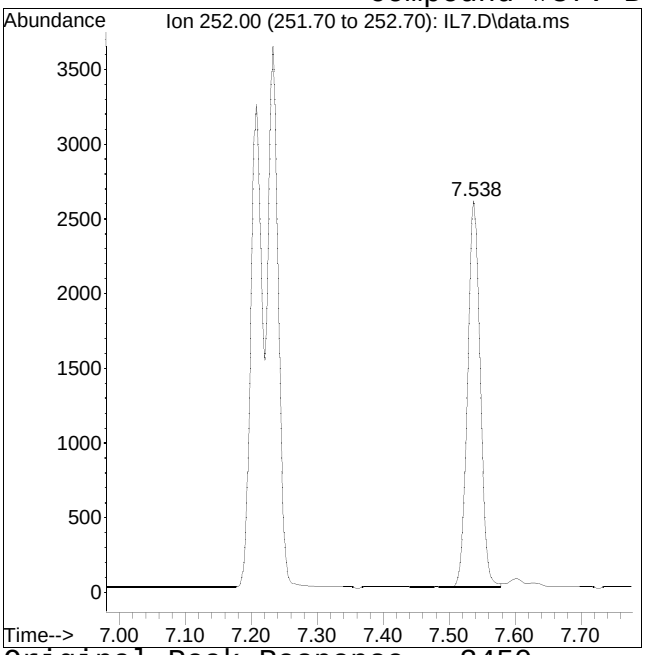
Manual Peak Response = 13430 M2

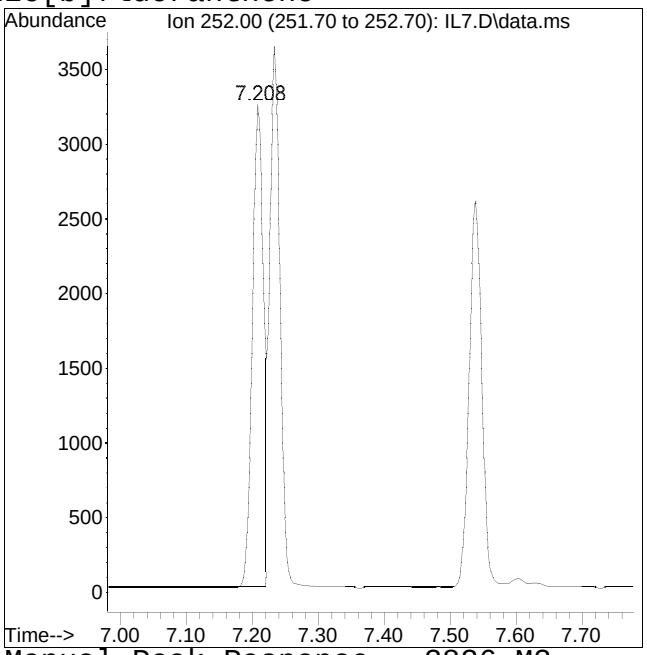
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #37: Benzo[b]fluoranthene





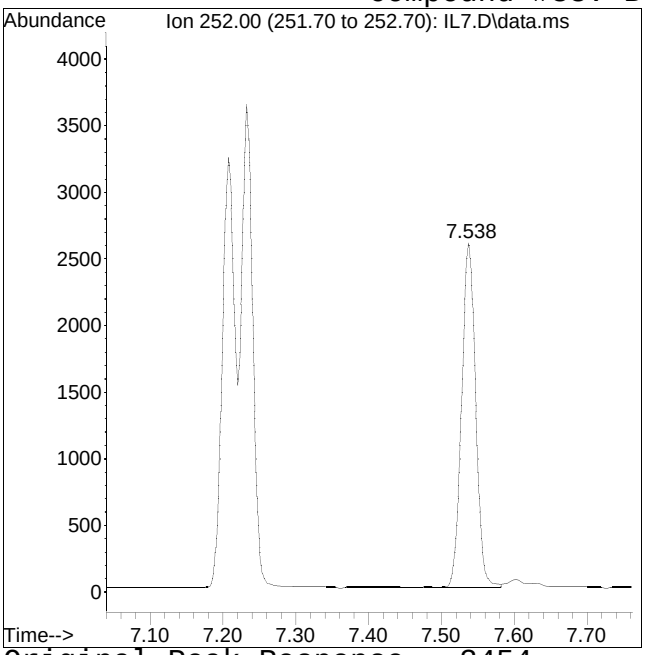
Original Peak Response = 3450 Manual Peak Response = 3826 M3

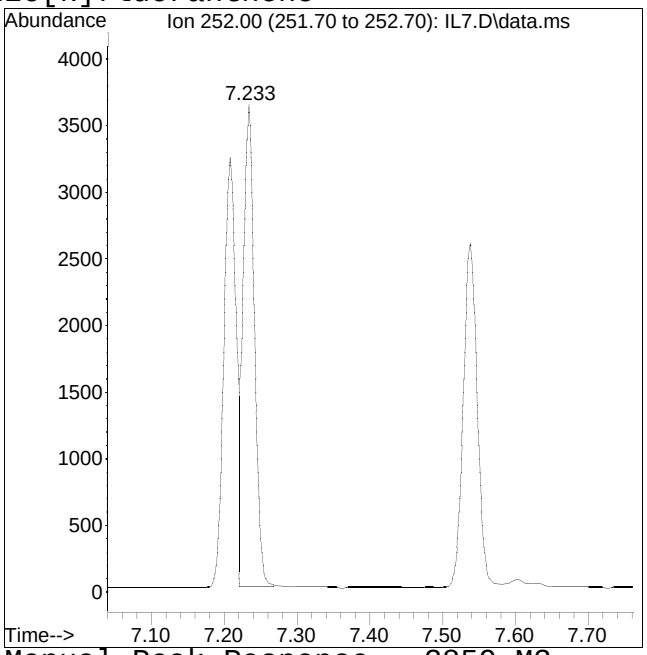
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #38: Benzo[k]fluoranthene



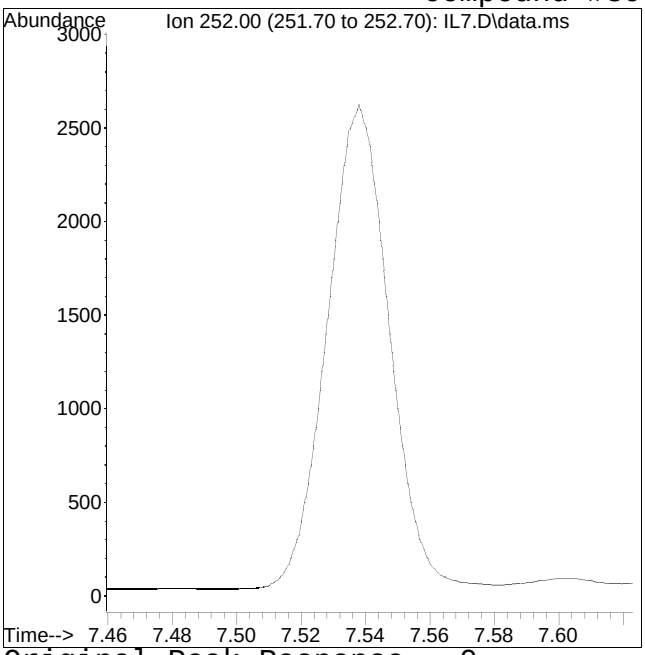


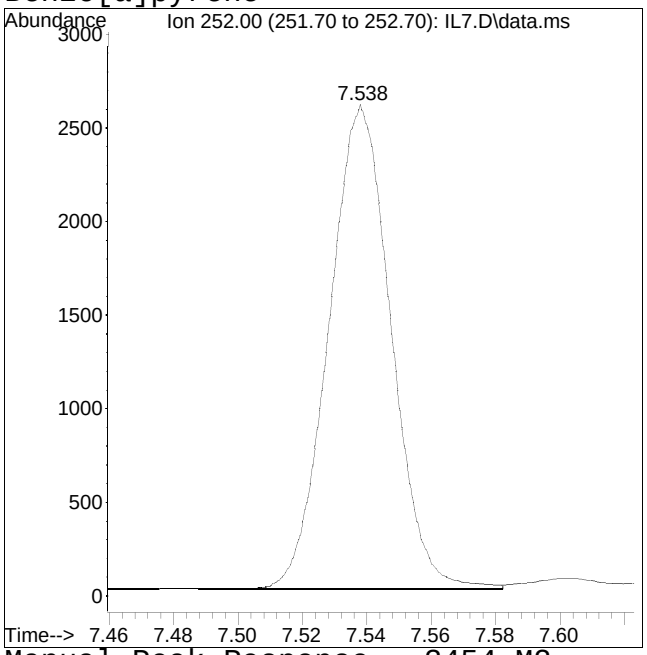
Original Peak Response = 3454 Manual Peak Response = 3859 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #39: Benzo[a]pyrene



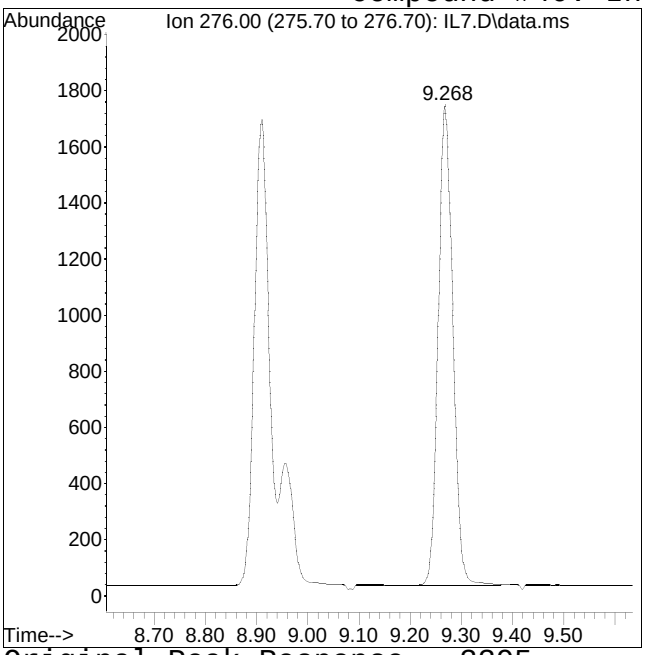


Original Peak Response = 0 Manual Peak Response = 3454 M2
M2 = Peak not found by automatic integration algorithm.

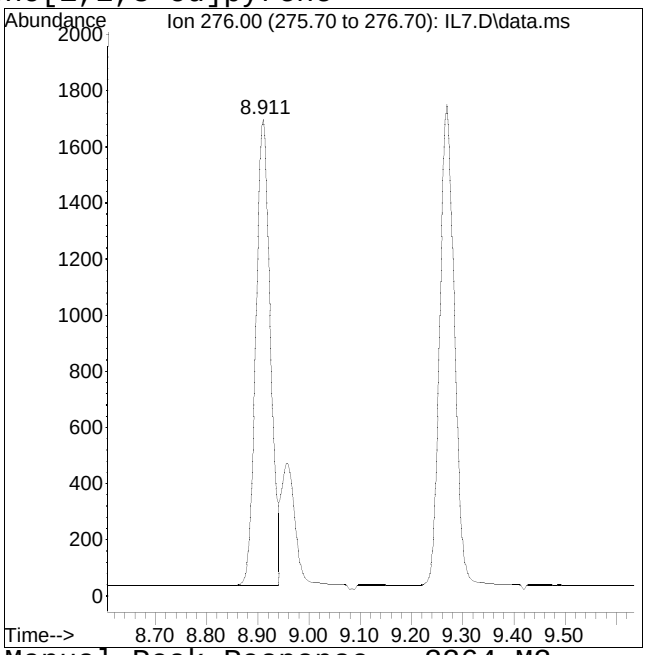
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 3395



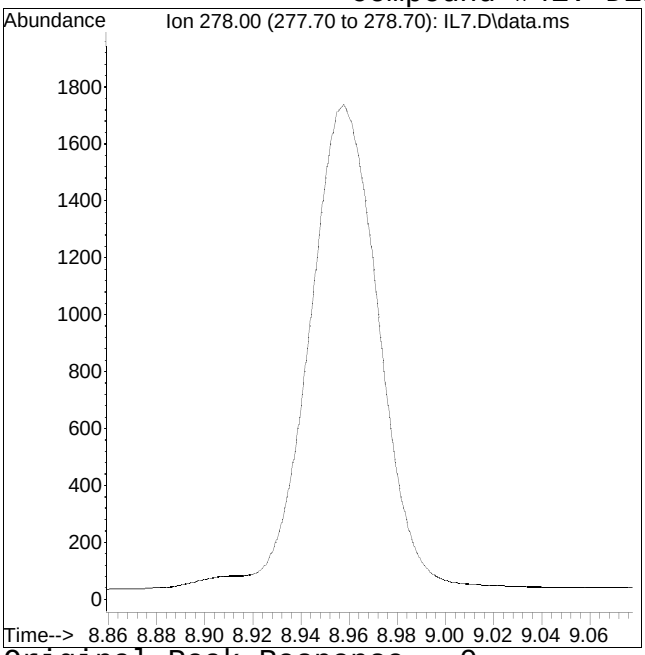
Manual Peak Response = 3264 M3

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

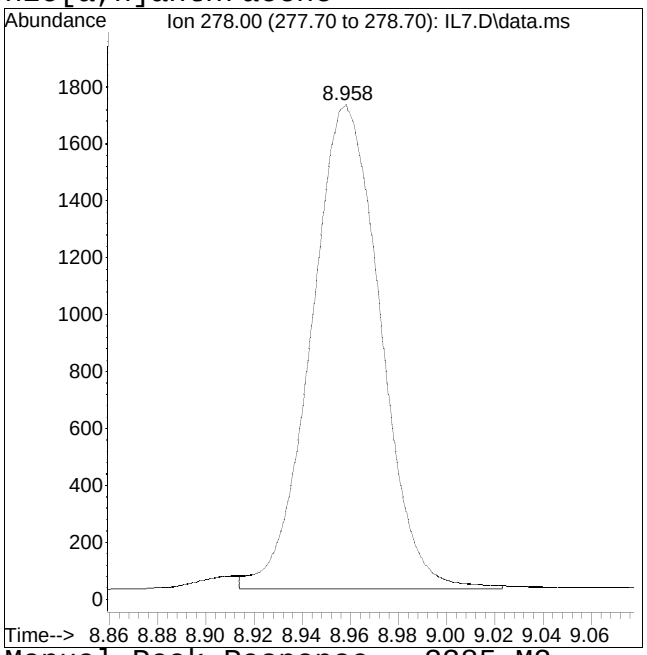
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 0



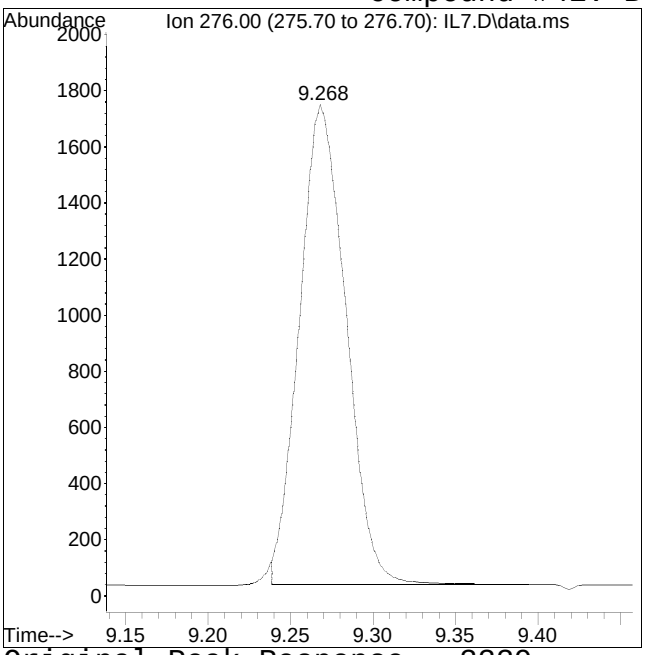
Manual Peak Response = 3385 M2

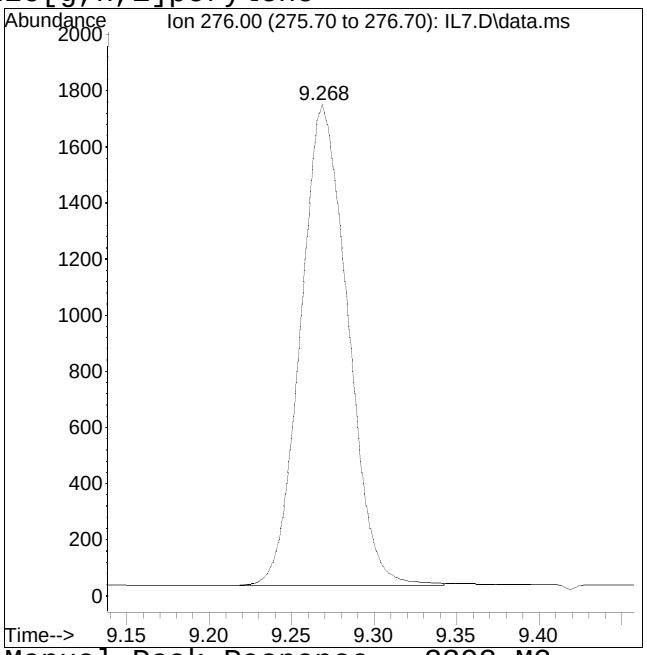
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL7.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:34 am Instrument : SV128
Sample : IL7,32,, 1.0 Lot#10229 Quant Date : 9/5/2023 11:59 am

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 3339 Manual Peak Response = 3393 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL6.D
Acq On : 31 Aug 2023 10:50 am
Operator : SV128:ah
Sample : IL6,32,, 0.25 Lot#10230
Misc : WG1823727,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 12:06:31 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:06 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.259	152	2298	4000.000	ng/ml	0.00
Standard Area 1 = 2292			Recovery = 100.26%			
8) Naphthalene-d8	2.922	136	8839	4000.000	ng/ml	0.00
Standard Area 1 = 8982			Recovery = 98.41%			
17) Acenaphthene-d10	3.902	164	5188	4000.000	ng/ml	0.00
Standard Area 1 = 5319			Recovery = 97.54%			
22) Phenanthrene-d10	4.748	188	12627	4000.000	ng/ml	0.00
Standard Area 1 = 12548			Recovery = 100.63%			
31) Chrysene-d12	6.324	240	12193	4000.000	ng/ml	0.00
Standard Area 1 = 11983			Recovery = 101.75%			
36) Perylene-d12	7.607	264	13458	4000.000	ng/ml	0.00
Standard Area 1 = 13430			Recovery = 100.21%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.654	112	149	253.736	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 5.07%#			
3) Phenol-d6	2.065	99	181	251.888	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 5.04%#			
7) Nitrobenzene-d5	2.537	82	154	252.841	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 10.11%#			
13) 2-Fluorobiphenyl	3.520	172	464M7	255.955	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 10.24%#			
21) 2,4,6-Tribromophenol	4.348	330	53	243.305	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 4.87%#			
30) 4-Terphenyl-d14	5.675	244	696	260.832	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 10.43%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.121	93	157	253.556	ng/ml	100
5) n-nitrosodi-n-propylamine	2.458	70	115M7	247.577	ng/ml	
6) Hexachloroethane	2.519	117	70	253.387	ng/ml	88
9) Naphthalene	2.934	128	556	257.452	ng/ml#	99
10) Hexachlorobutadiene	3.007	225	105	258.565	ng/ml	100
11) 2-Methylnaphthalene	3.313	142	368	255.286	ng/ml	100
12) 1-Methylnaphthalene	3.368	142	342	256.078	ng/ml	99
14) 2-Chloronaphthalene	3.584	162	387	258.962	ng/ml	96
15) 2,6-Dinitrotoluene	3.777	165	64M4	214.435	ng/ml	
16) Acenaphthylene	3.820	152	607	255.053	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL6.D
Acq On : 31 Aug 2023 10:50 am
Operator : SV128:ah
Sample : IL6,32,, 0.25 Lot#10230
Misc : WG1823727,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 12:06:31 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:06 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.918	153	429	260.981	ng/ml	91
19) 2,4-Dinitrotoluene	4.009	165	84	213.154	ng/ml	95
20) Fluorene	4.211	166	465M6	259.237	ng/ml	
23) 4,6-Dinitro-o-cresol	4.239	198	41M6	236.316	ng/ml	
24) Hexachlorobenzene	4.533	284	176	259.553	ng/ml	99
25) Pentachlorophenol	4.642	266	82	210.122	ng/ml	100
26) Phenanthrene	4.760	178	809	256.980	ng/ml	99
27) Anthracene	4.790	178	786M6	256.553	ng/ml	
28) Fluoranthene	5.449	202	938	256.456	ng/ml	95
29) Pyrene	5.580	202	969	255.974	ng/ml	100
32) Benzo[a]anthracene	6.316	228	999	244.911	ng/ml	99
33) 3,3'-Dichlorobenzidine	6.305	252	346	227.533	ng/ml	100
34) Chrysene	6.341	228	988	262.636	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.362	149	483	203.410	ng/ml	99
37) Benzo[b]fluoranthene	7.208	252	985	259.769	ng/ml	100
38) Benzo[k]fluoranthene	7.236	252	876	249.635	ng/ml	100
39) Benzo[a]pyrene	7.541	252	828	254.255	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.911	276	760	233.196	ng/ml	97
41) Dibenzo[a,h]anthracene	8.961	278	771M6	245.780	ng/ml	
42) Benzo[g,h,i]perylene	9.274	276	806M4	240.885	ng/ml	

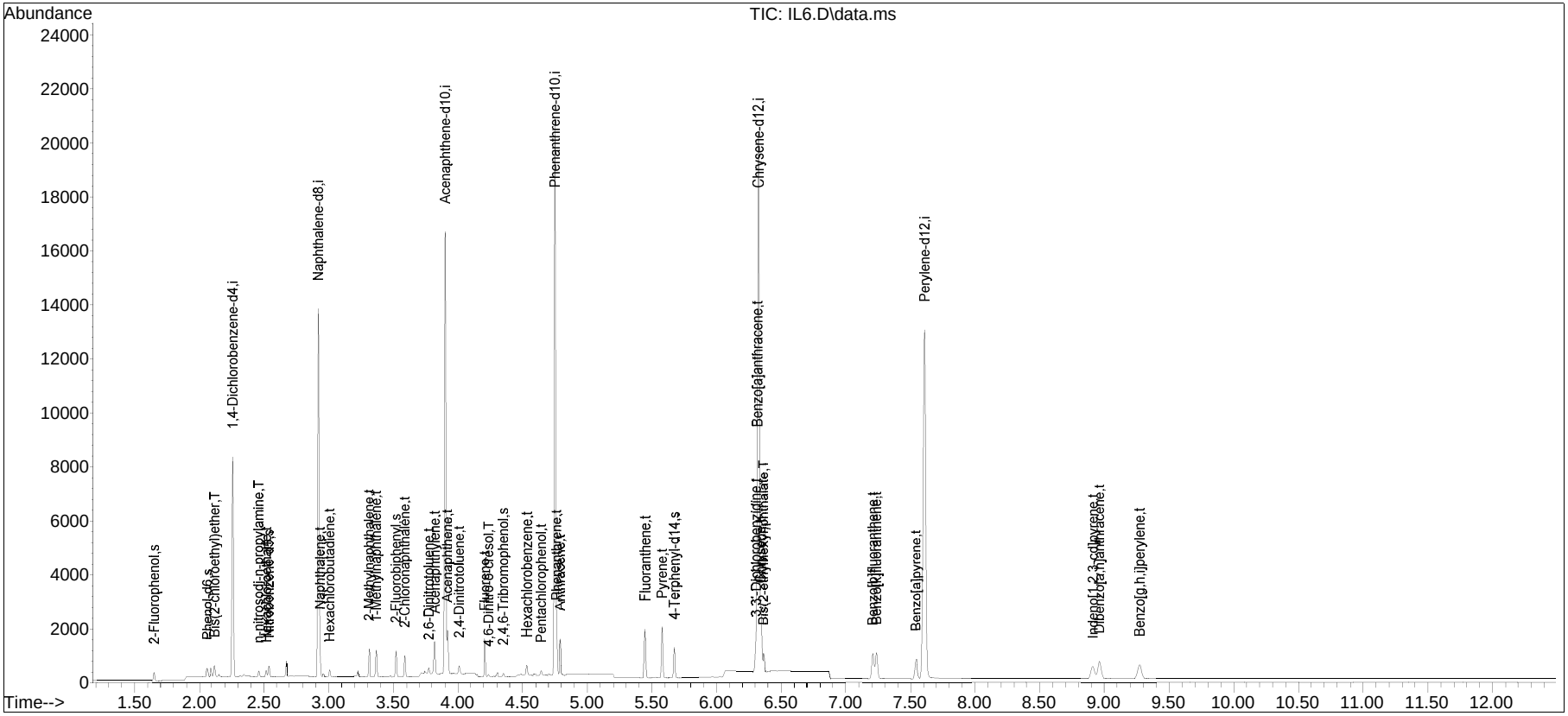
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL6.D
Acq On : 31 Aug 2023 10:50 am
Operator : SV128:ah
Sample : IL6,32,, 0.25 Lot#10230
Misc : WG1823727,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 05 12:06:31 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:06 2023
Response via : Initial Calibration

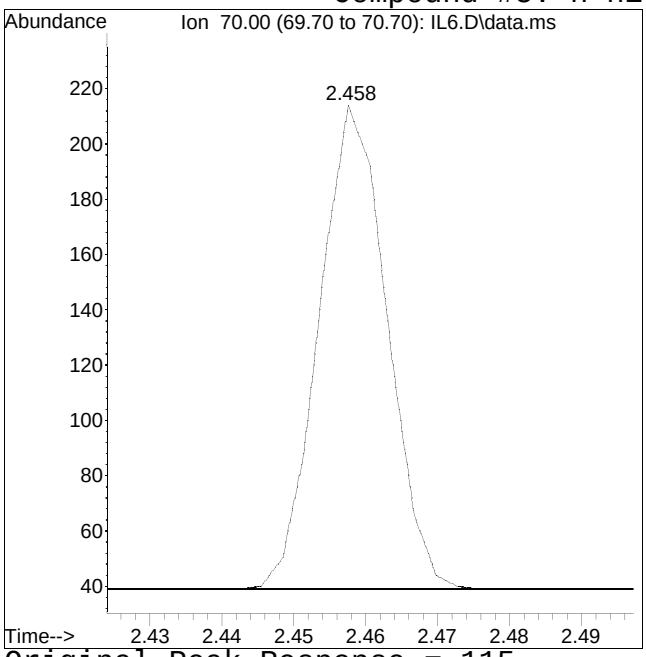
Sub List : Default - All compounds listedIical\IL7.D•



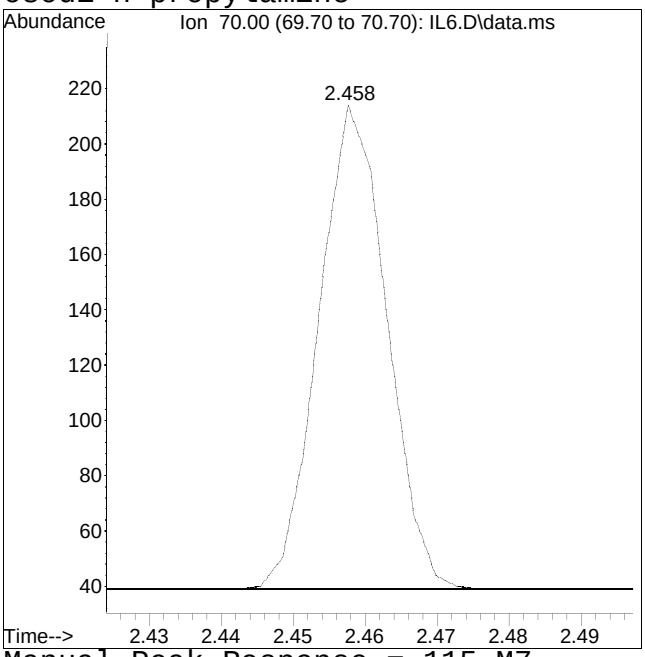
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL6.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:50 am Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 9/5/2023 11:59 am

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 115



Manual Peak Response = 115 M7

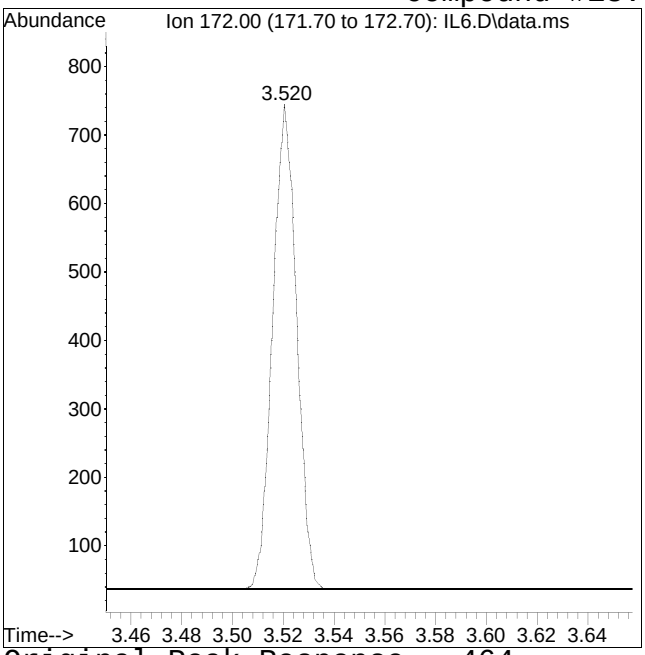
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

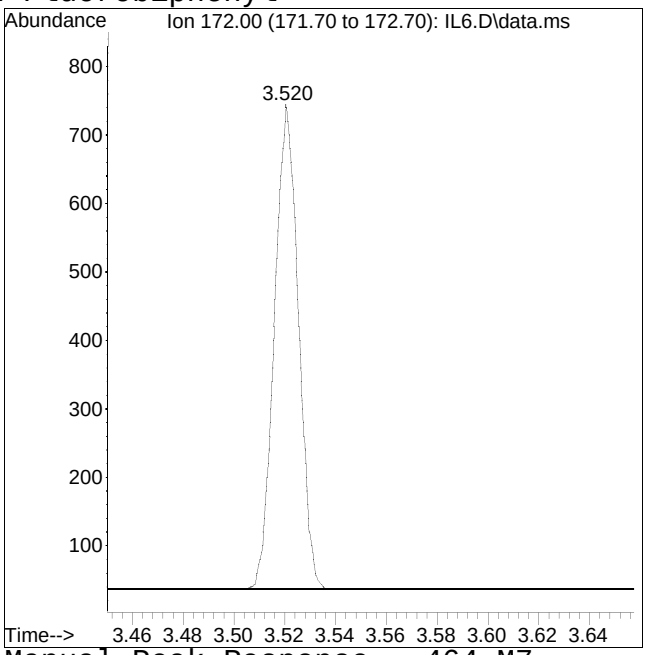
Data Path : I:\8270SIM\SV128\230831aLVQ
Data File : IL6.D
Date Inj'd : 8/31/2023 10:50 am
Sample : IL6,32,, 0.25 Lot#10230

Method : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 9/5/2023 11:59 am

Compound #13: 2-Fluorobiphenyl



Original Peak Response = 464



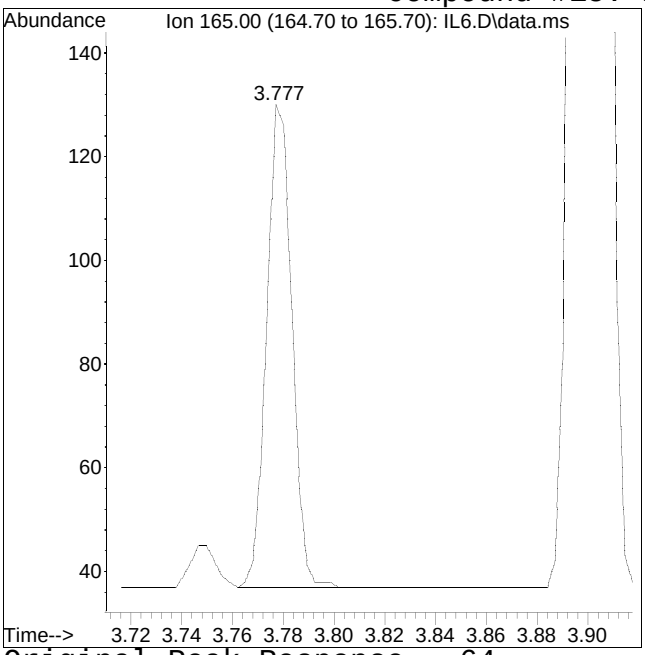
Manual Peak Response = 464 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

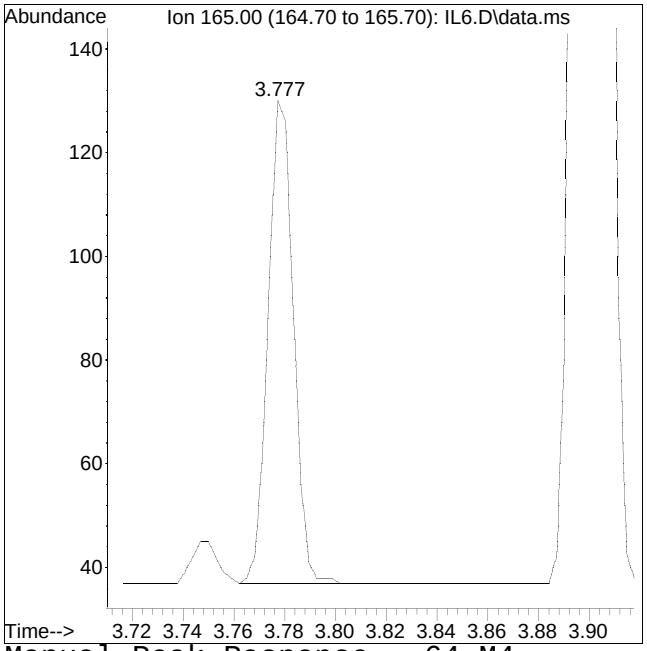
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL6.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:50 am Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 9/5/2023 11:59 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 64



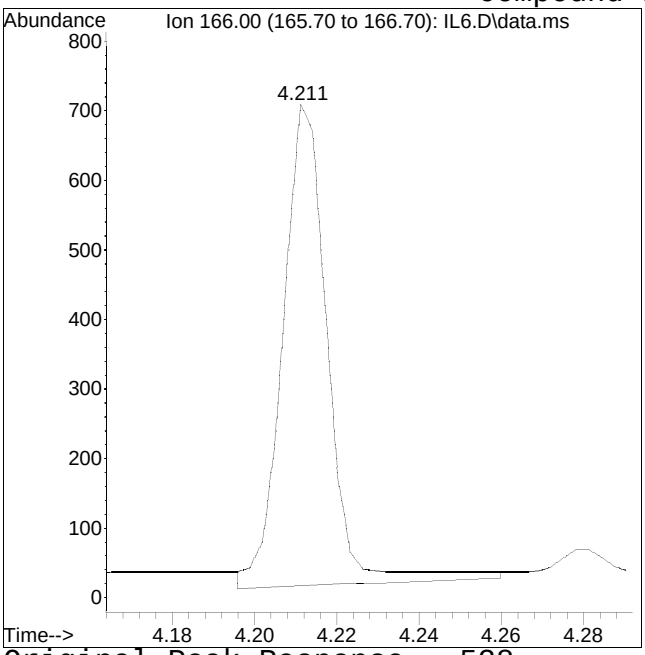
Manual Peak Response = 64 M4

M4 = Poor automated baseline construction.

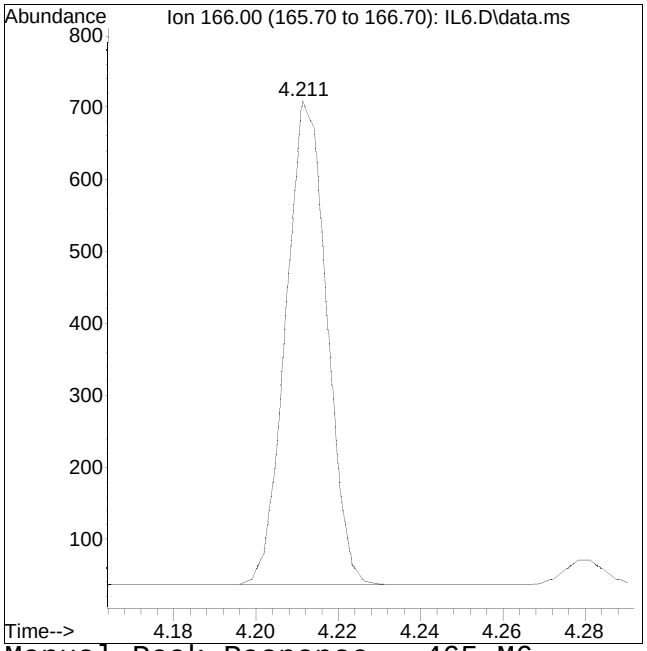
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL6.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:50 am Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 9/5/2023 11:59 am

Compound #20: Fluorene



Original Peak Response = 528



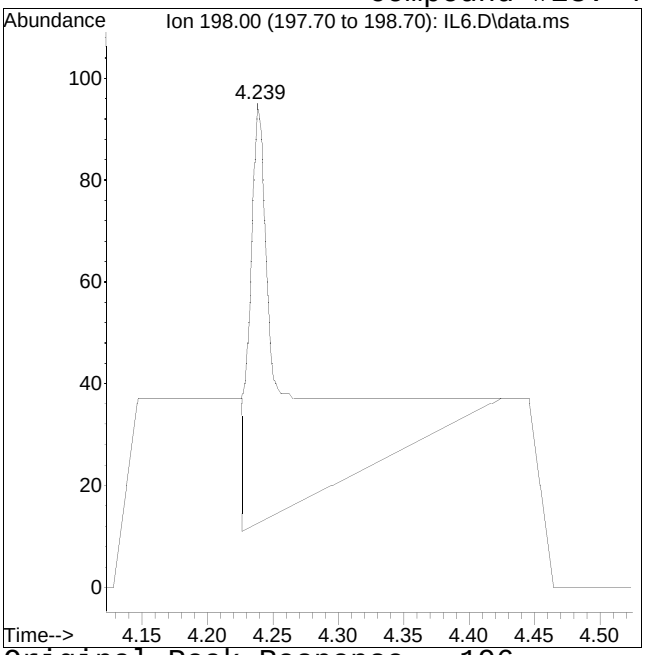
Manual Peak Response = 465 M6

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

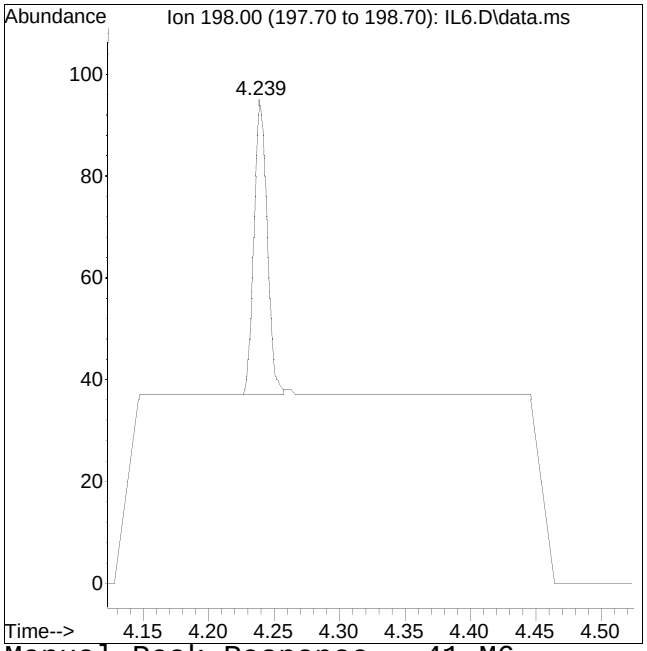
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL6.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:50 am Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 9/5/2023 11:59 am

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 196



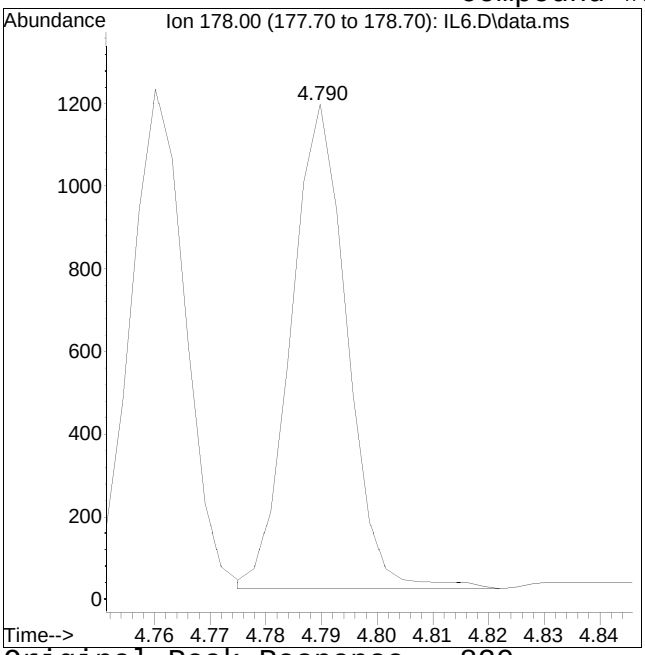
Manual Peak Response = 41 M6

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

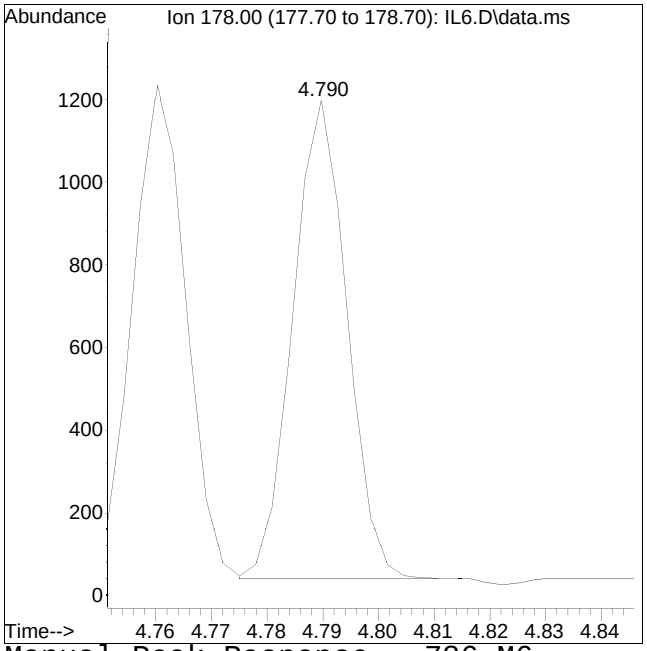
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL6.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:50 am Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 9/5/2023 11:59 am

Compound #27: Anthracene



Original Peak Response = 820



Manual Peak Response = 786 M6

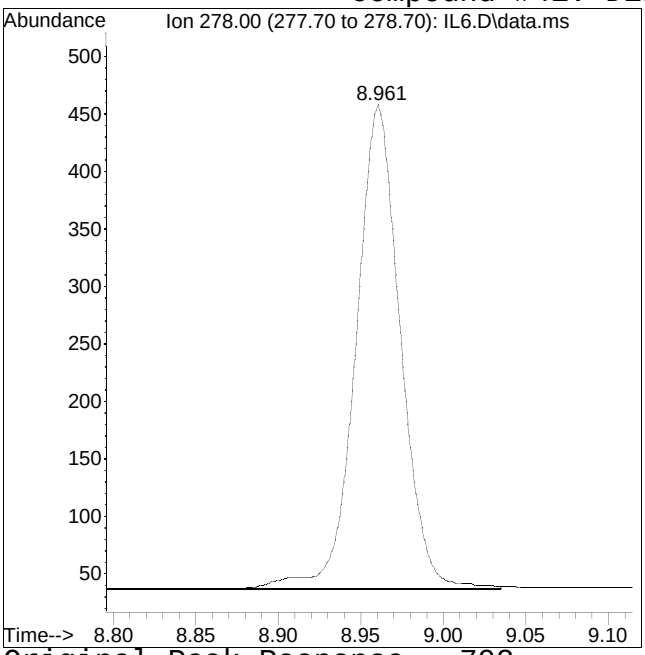
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

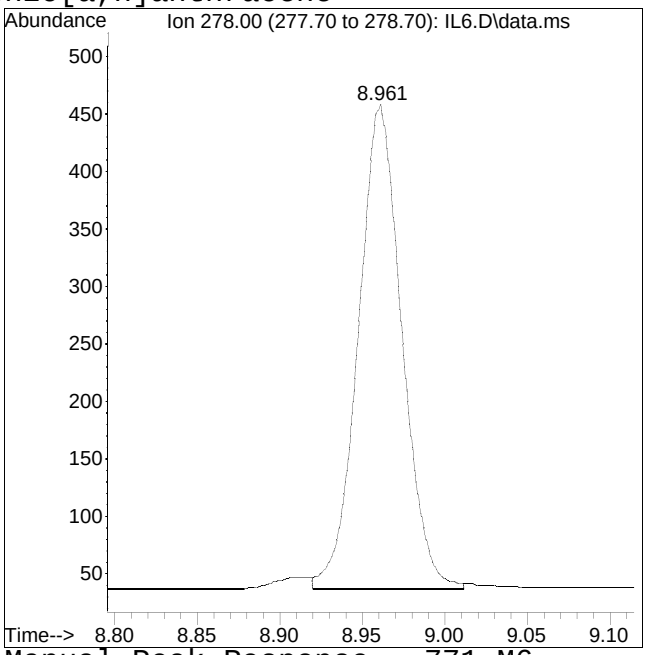
Data Path : I:\8270SIM\SV128\230831aLVQ
Data File : IL6.D
Date Inj'd : 8/31/2023 10:50 am
Sample : IL6,32,, 0.25 Lot#10230

Method : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 9/5/2023 11:59 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 792



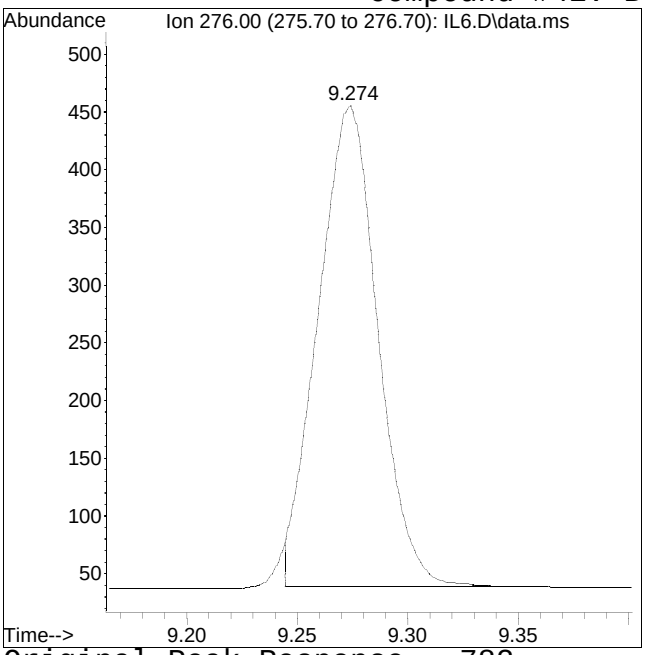
Manual Peak Response = 771 M6

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

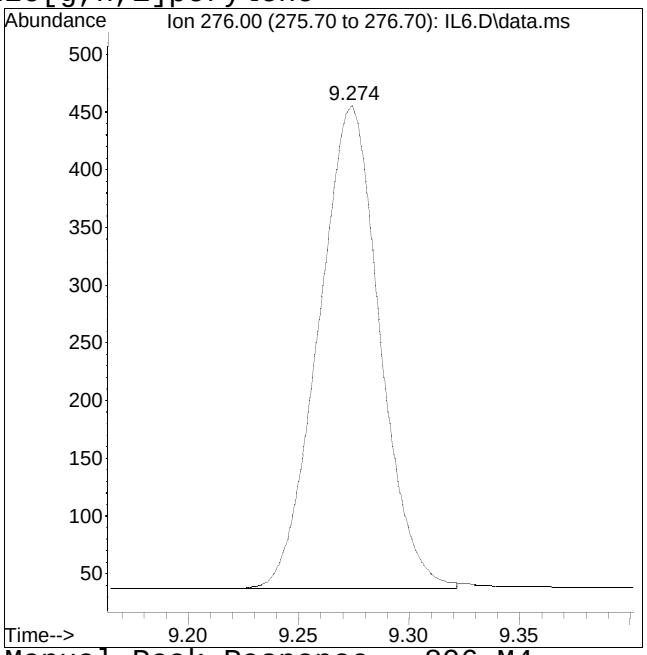
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL6.D Operator : SV128:ah
Date Inj'd : 8/31/2023 10:50 am Instrument : SV128
Sample : IL6,32,, 0.25 Lot#10230 Quant Date : 9/5/2023 11:59 am

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 782



Manual Peak Response = 806 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL5.D
Acq On : 31 Aug 2023 11:06 am
Operator : SV128:ah
Sample : IL5,32,, 0.1 Lot#10231
Misc : WG1823727,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 12:08:55 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:01 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.258	152	2391	4000.000	ng/ml	0.00
Standard Area 1 = 2292			Recovery = 104.32%			
8) Naphthalene-d8	2.924	136	9211	4000.000	ng/ml	0.00
Standard Area 1 = 8982			Recovery = 102.55%			
17) Acenaphthene-d10	3.901	164	5395	4000.000	ng/ml	0.00
Standard Area 1 = 5319			Recovery = 101.43%			
22) Phenanthrene-d10	4.747	188	13027	4000.000	ng/ml	0.00
Standard Area 1 = 12548			Recovery = 103.82%			
31) Chrysene-d12	6.324	240	12299	4000.000	ng/ml	0.00
Standard Area 1 = 11983			Recovery = 102.64%			
36) Perylene-d12	7.606	264	13394	4000.000	ng/ml	0.00
Standard Area 1 = 13430			Recovery = 99.73%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.654	112	61M7	99.838	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 2.00%#			
3) Phenol-d6	2.064	99	74M4	98.976	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.98%#			
7) Nitrobenzene-d5	2.539	82	63	99.412	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 3.98%#			
13) 2-Fluorobiphenyl	3.522	172	193	102.164	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 4.09%#			
21) 2,4,6-Tribromophenol	4.350	330	21M6	92.705	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.85%#			
30) 4-Terphenyl-d14	5.677	244	276	100.257	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 4.01%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.121	93	64M6	99.340	ng/ml	
5) n-nitrosodi-n-propylamine	2.459	70	47	97.248	ng/ml	98
6) Hexachloroethane	2.520	117	29	100.892	ng/ml	97
9) Naphthalene	2.936	128	231	102.643	ng/ml#	98
10) Hexachlorobutadiene	3.009	225	43M6	101.612	ng/ml	
11) 2-Methylnaphthalene	3.315	142	154	102.517	ng/ml	98
12) 1-Methylnaphthalene	3.370	142	142	102.031	ng/ml	100
14) 2-Chloronaphthalene	3.586	162	160	102.740	ng/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL5.D
Acq On : 31 Aug 2023 11:06 am
Operator : SV128:ah
Sample : IL5,32,, 0.1 Lot#10231
Misc : WG1823727,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 12:08:55 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:01 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2,6-Dinitrotoluene	3.779	165	25M4	80.381	ng/ml	
16) Acenaphthylene	3.819	152	247	99.594	ng/ml	96
18) Acenaphthene	3.919	153	178M7	104.131	ng/ml	
19) 2,4-Dinitrotoluene	4.008	165	33	80.526	ng/ml	94
20) Fluorene	4.213	166	191M6	102.397	ng/ml	
23) 4,6-Dinitro-o-cresol	4.240	198	14M6	117.660	ng/ml	
24) Hexachlorobenzene	4.532	284	71M7	101.491	ng/ml	
25) Pentachlorophenol	4.644	266	31M6	90.585	ng/ml	
26) Phenanthrene	4.762	178	328M6	100.990	ng/ml	
27) Anthracene	4.789	178	320	101.242	ng/ml	99
28) Fluoranthene	5.448	202	374M7	99.114	ng/ml	
29) Pyrene	5.579	202	391	100.116	ng/ml	97
32) Benzo[a]anthracene	6.318	228	424	99.200	ng/ml	97
33) 3,3'-Dichlorobenzidine	6.307	252	137	89.316	ng/ml	98
34) Chrysene	6.343	228	388	102.252	ng/ml	91
35) Bis(2-ethylhexyl)phtha...	6.364	149	179	74.734	ng/ml	95
37) Benzo[b]fluoranthene	7.210	252	368	97.515	ng/ml	100
38) Benzo[k]fluoranthene	7.235	252	348	99.644	ng/ml	100
39) Benzo[a]pyrene	7.540	252	314	96.881	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.910	276	299	92.183	ng/ml	98
41) Dibenzo[a,h]anthracene	8.960	278	287M6	91.927	ng/ml	
42) Benzo[g,h,i]perylene	9.270	276	306M1	91.890	ng/ml	

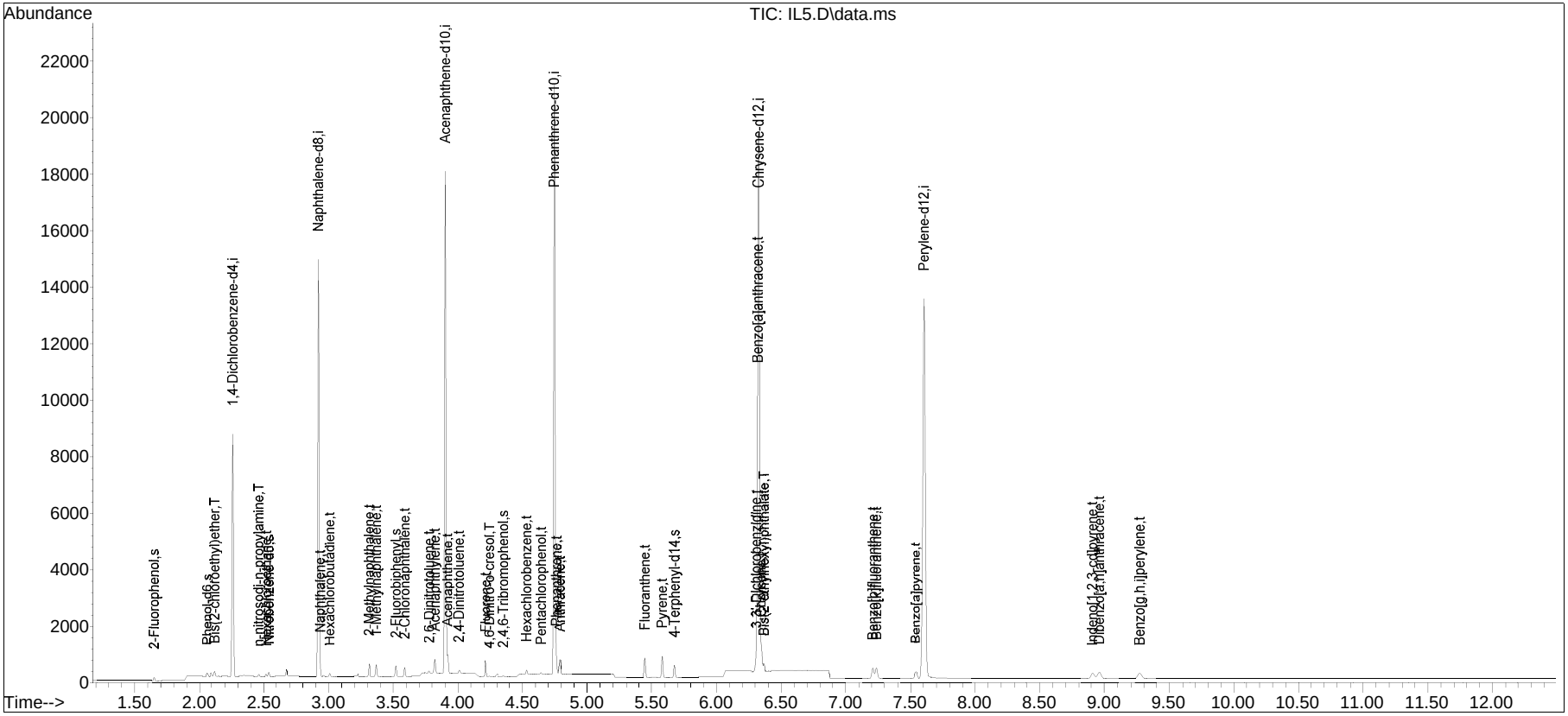
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL5.D
Acq On : 31 Aug 2023 11:06 am
Operator : SV128:ah
Sample : IL5,32,, 0.1 Lot#10231
Misc : WG1823727,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 05 12:08:55 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:59:01 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•

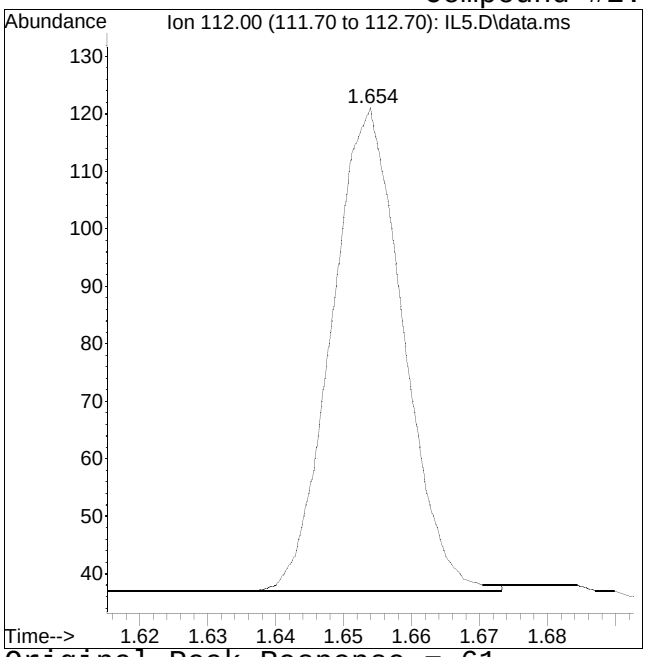


Manual Integration Report

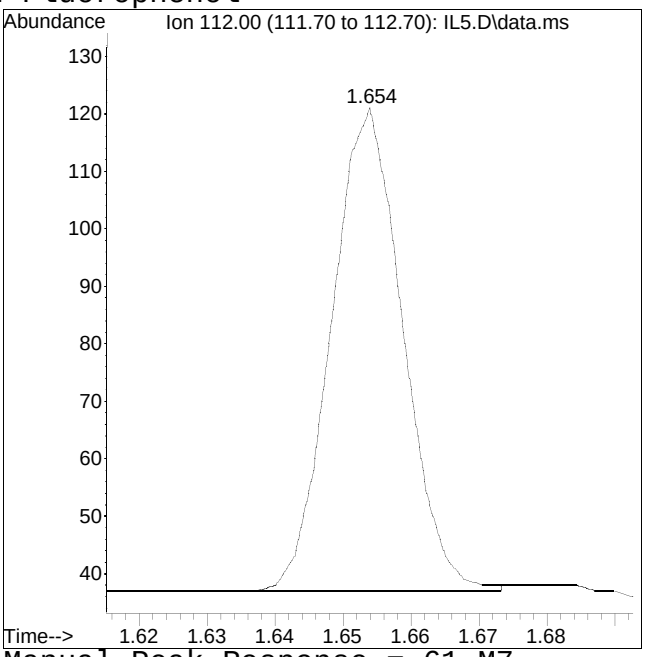
Data Path : I:\8270SIM\SV128\230831aLVQ
Data File : IL5.D
Date Inj'd : 8/31/2023 11:06 am
Sample : IL5,32,, 0.1 Lot#10231

Method : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 9/5/2023 11:59 am

Compound #2: 2-Fluorophenol



Original Peak Response = 61



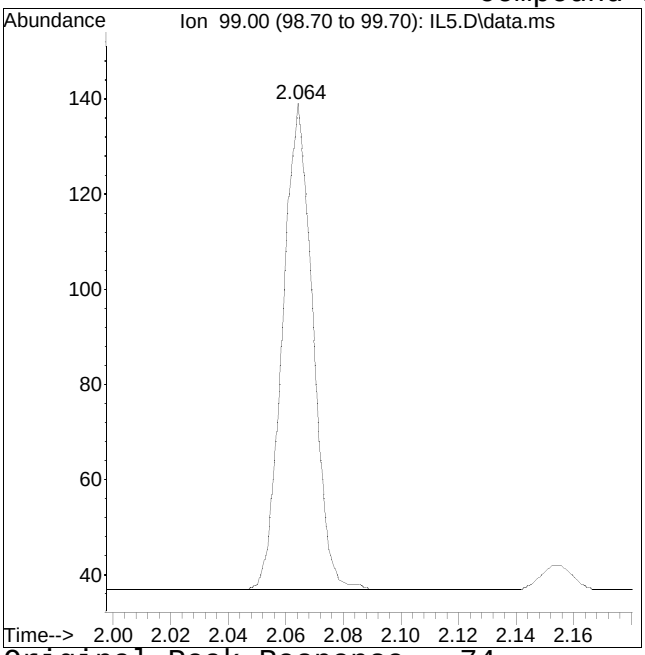
Manual Peak Response = 61 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

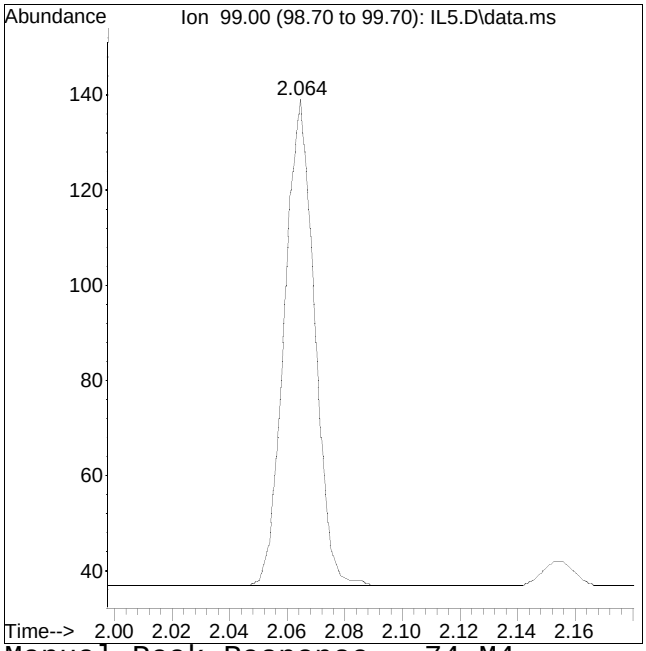
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL5.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:06 am Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 9/5/2023 11:59 am

Compound #3: Phenol-d6



Original Peak Response = 74



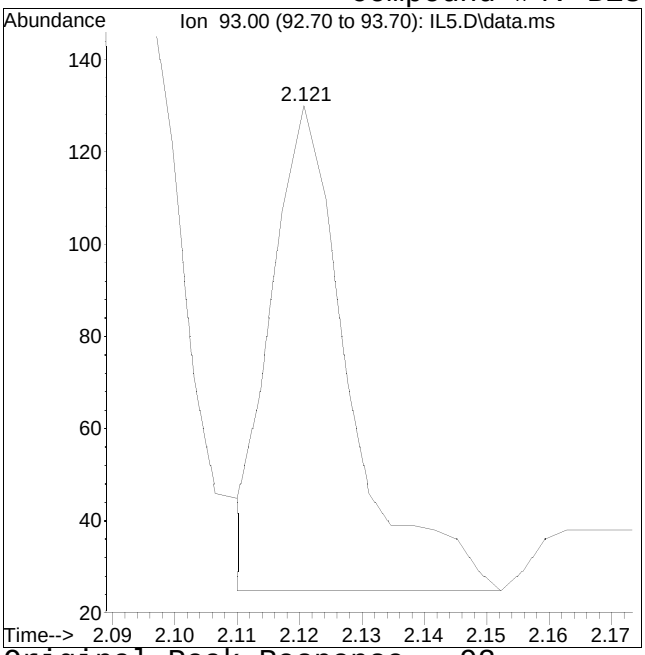
Manual Peak Response = 74 M4

M4 = Poor automated baseline construction.

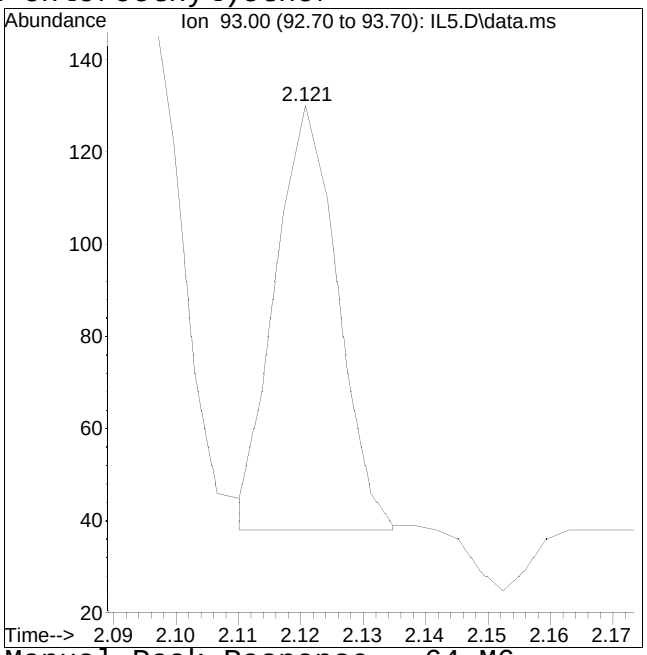
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL5.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:06 am Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 9/5/2023 11:59 am

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 92



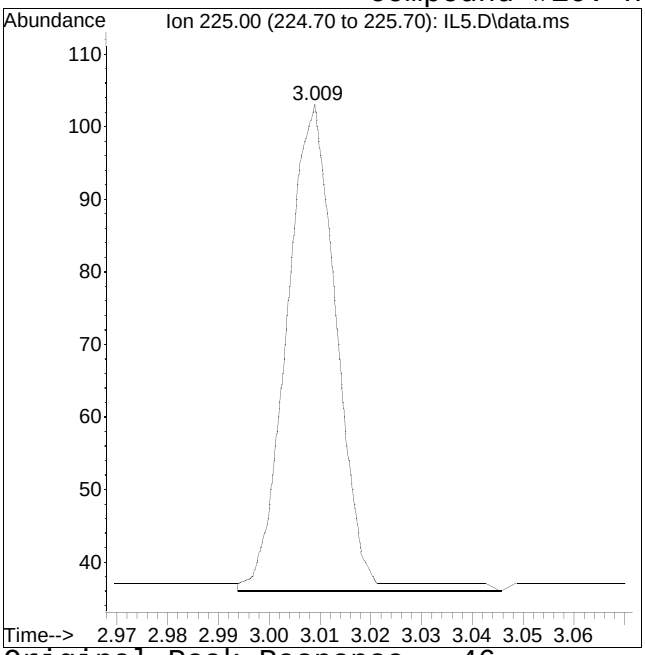
Manual Peak Response = 64 M6

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

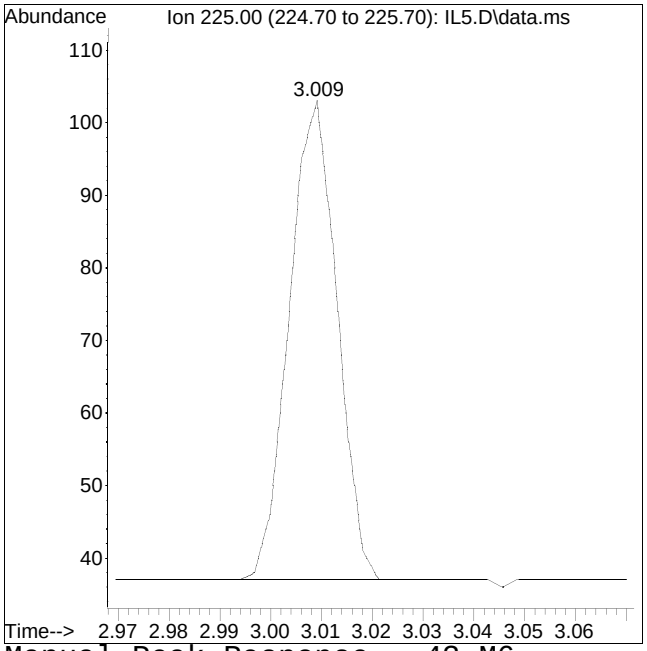
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL5.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:06 am Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 9/5/2023 11:59 am

Compound #10: Hexachlorobutadiene



Original Peak Response = 46



Manual Peak Response = 43 M6

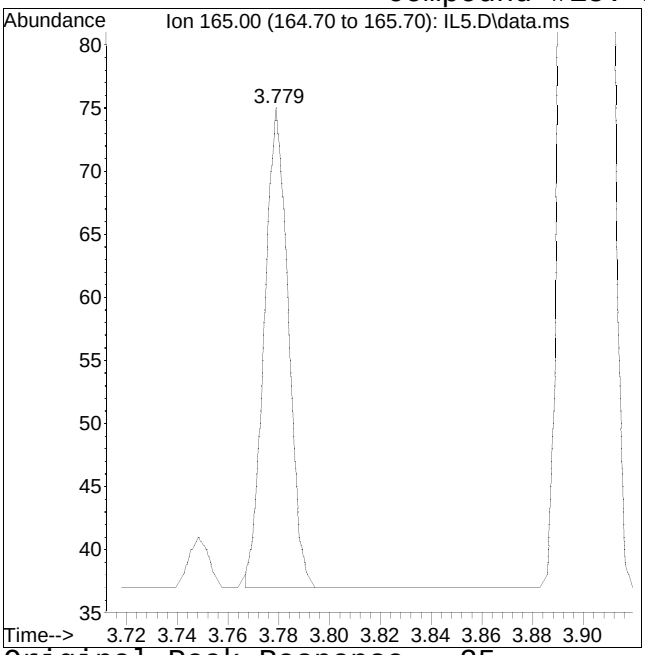
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

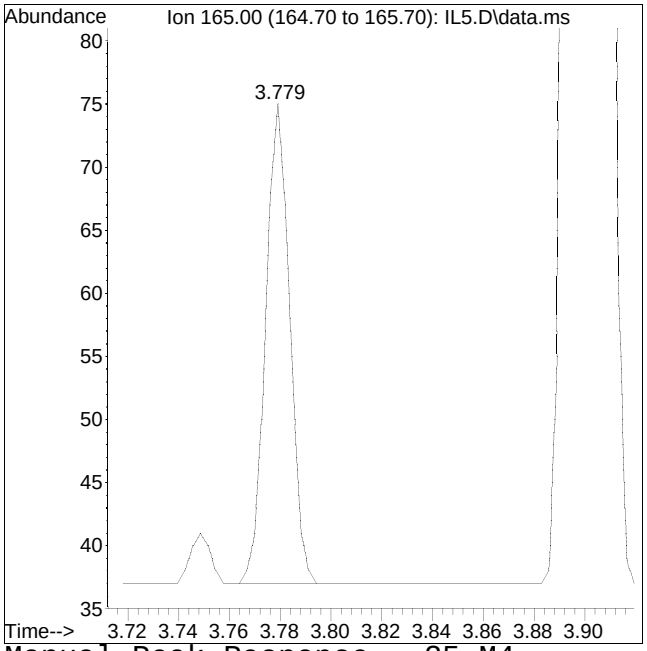
Data Path : I:\8270SIM\SV128\230831aLVQ
Data File : IL5.D
Date Inj'd : 8/31/2023 11:06 am
Sample : IL5,32,, 0.1 Lot#10231

Method : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 9/5/2023 11:59 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 25



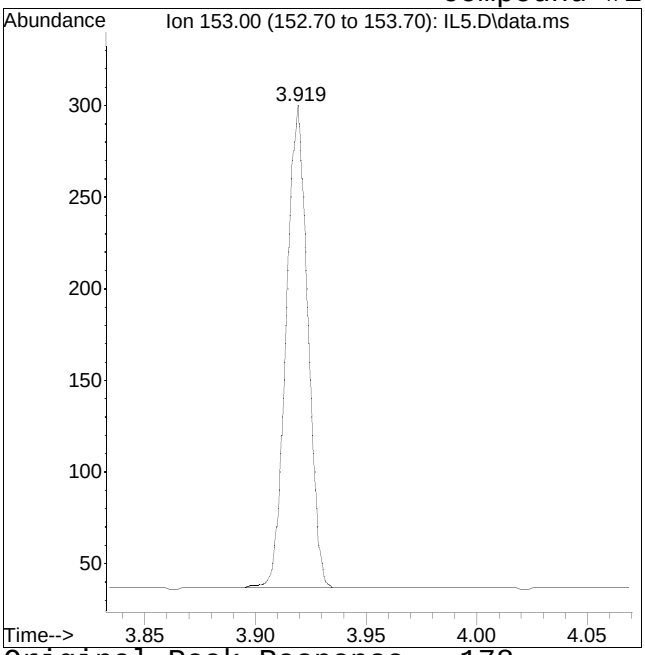
Manual Peak Response = 25 M4

M4 = Poor automated baseline construction.

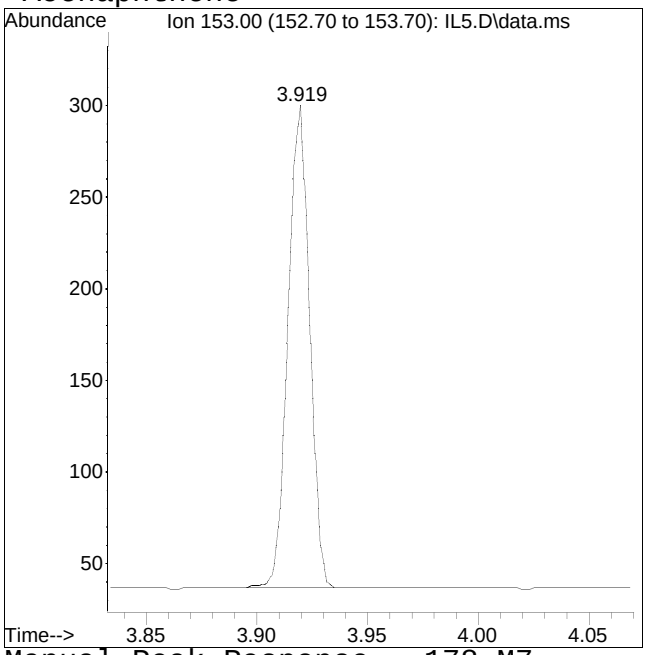
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL5.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:06 am Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 9/5/2023 11:59 am

Compound #18: Acenaphthene



Original Peak Response = 178



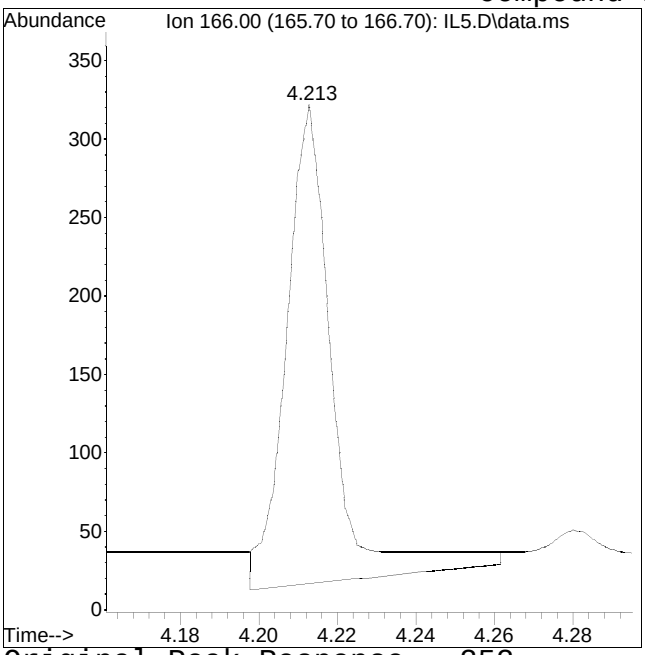
Manual Peak Response = 178 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

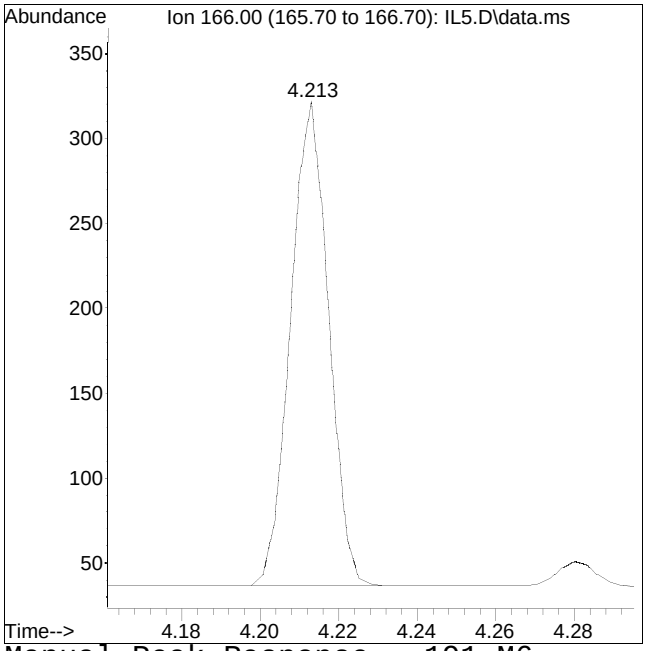
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL5.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:06 am Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 9/5/2023 11:59 am

Compound #20: Fluorene



Original Peak Response = 252



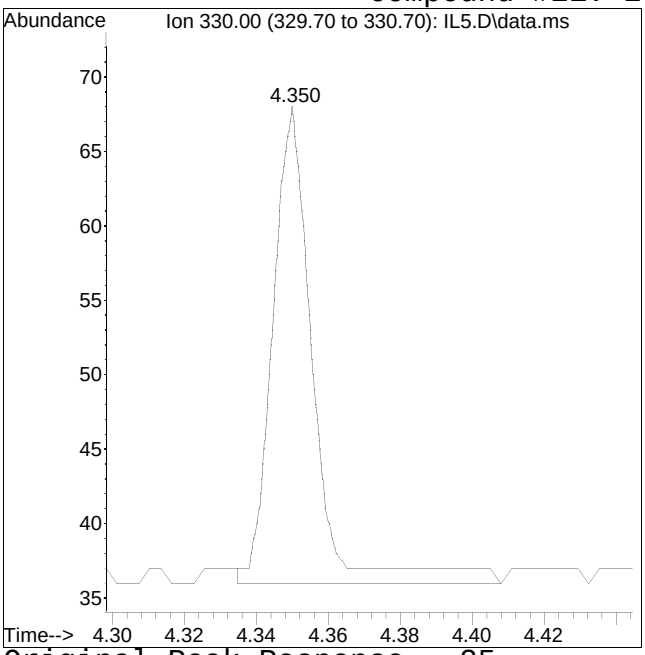
Manual Peak Response = 191 M6

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

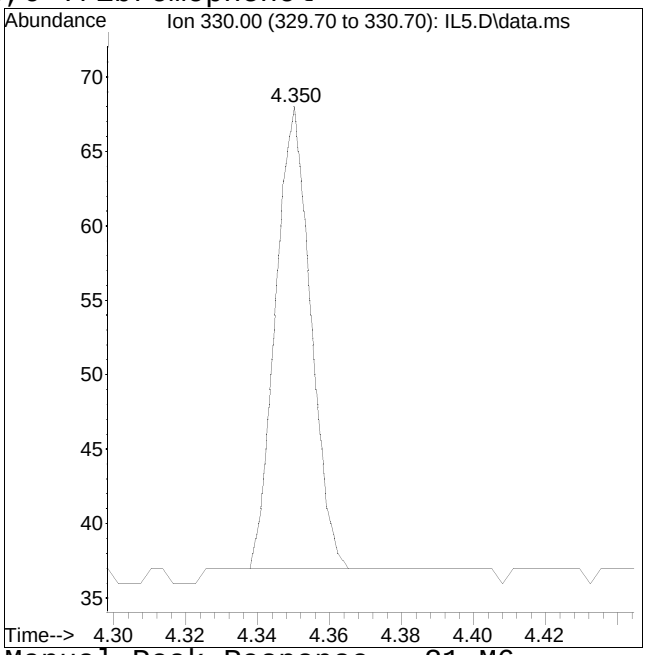
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL5.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:06 am Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 9/5/2023 11:59 am

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 25



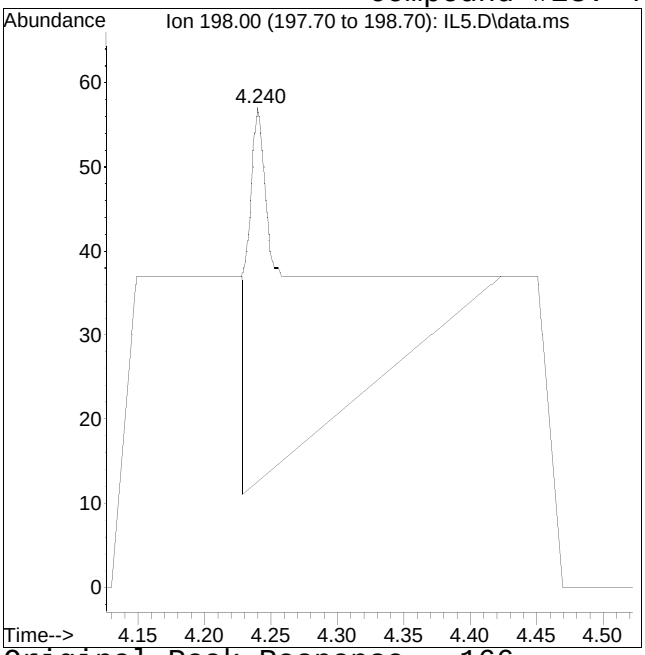
Manual Peak Response = 21 M6

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

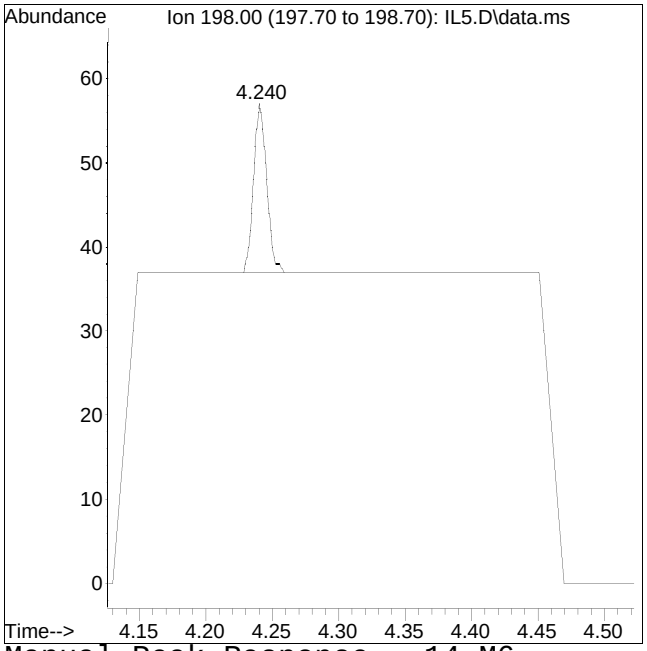
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL5.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:06 am Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 9/5/2023 11:59 am

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 166



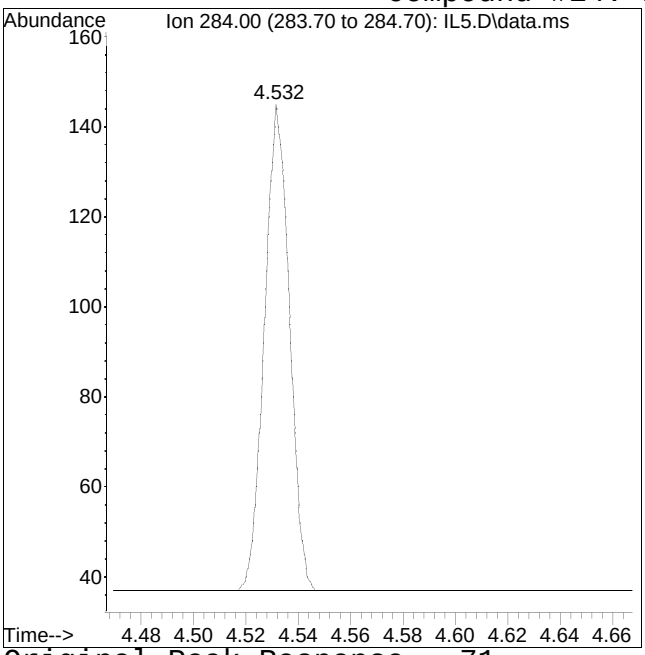
Manual Peak Response = 14 M6

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

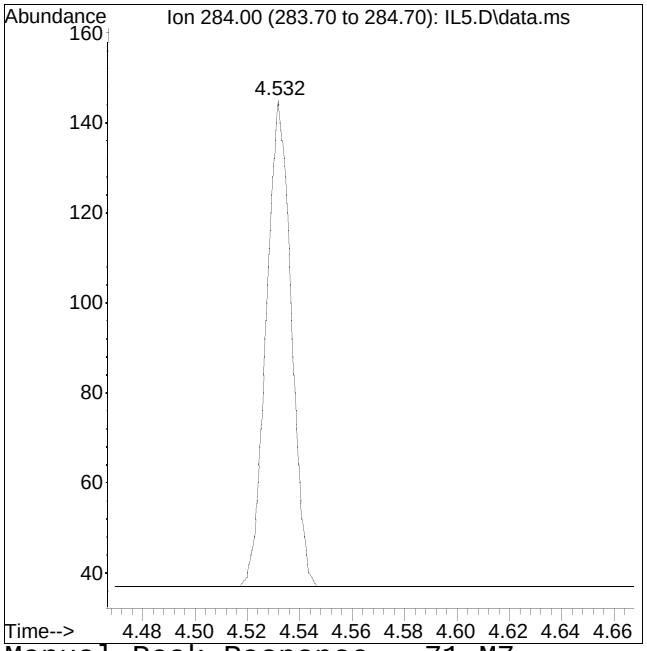
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL5.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:06 am Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 9/5/2023 11:59 am

Compound #24: Hexachlorobenzene



Original Peak Response = 71



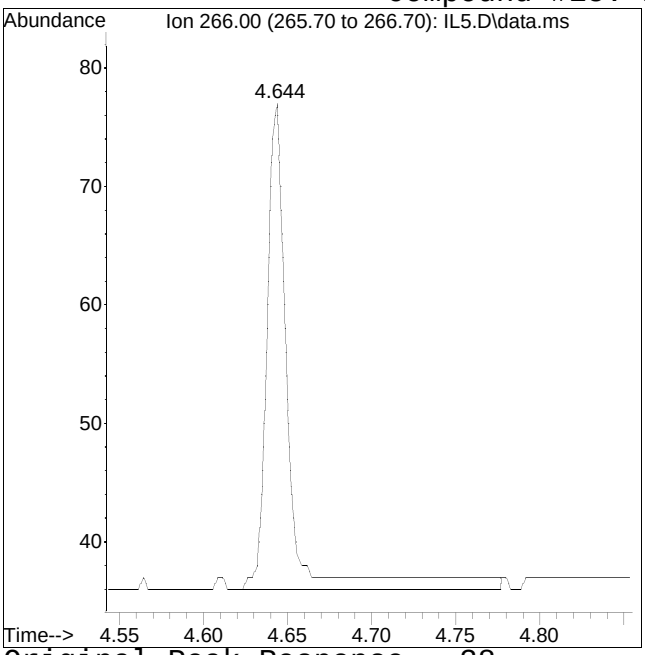
Manual Peak Response = 71 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

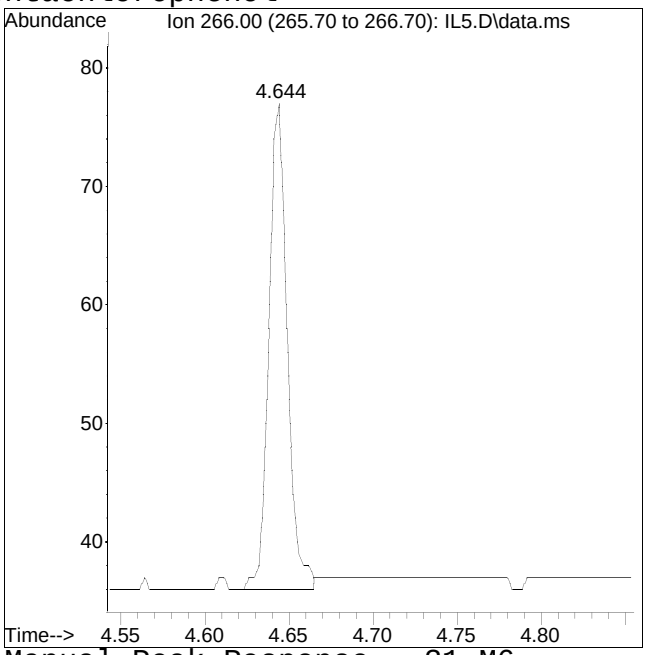
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL5.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:06 am Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 9/5/2023 11:59 am

Compound #25: Pentachlorophenol



Original Peak Response = 38



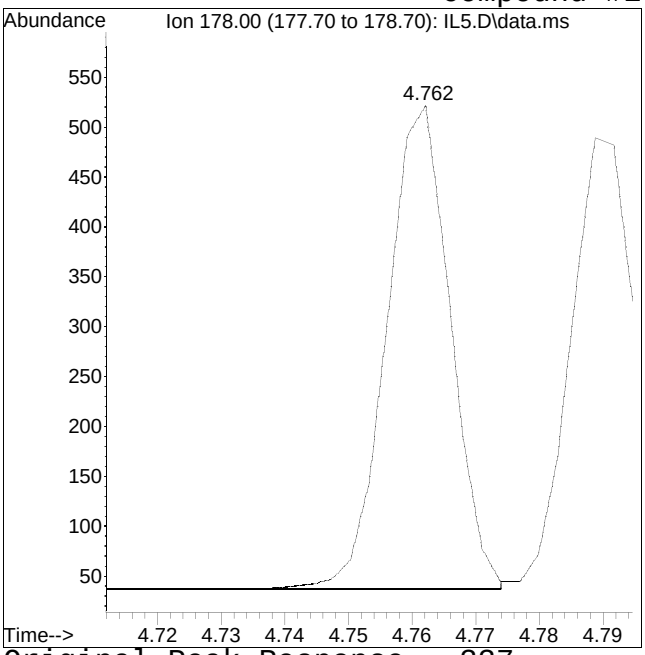
Manual Peak Response = 31 M6

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

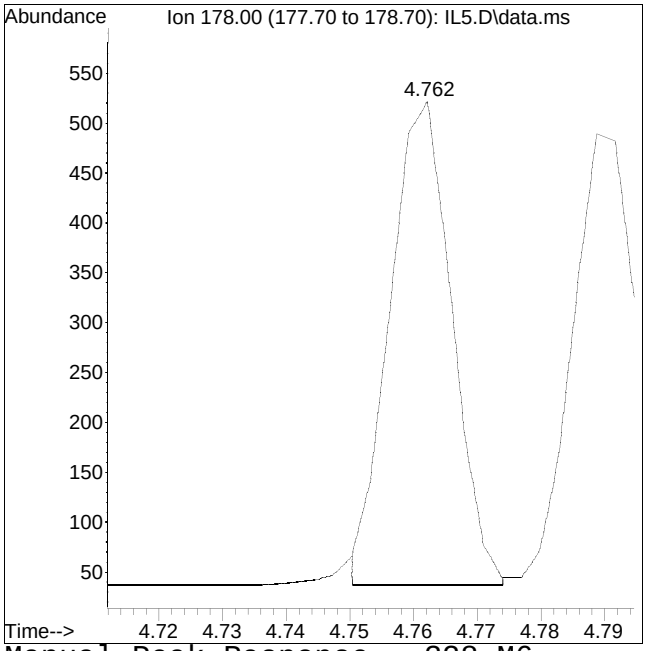
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL5.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:06 am Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 9/5/2023 11:59 am

Compound #26: Phenanthrene



Original Peak Response = 337



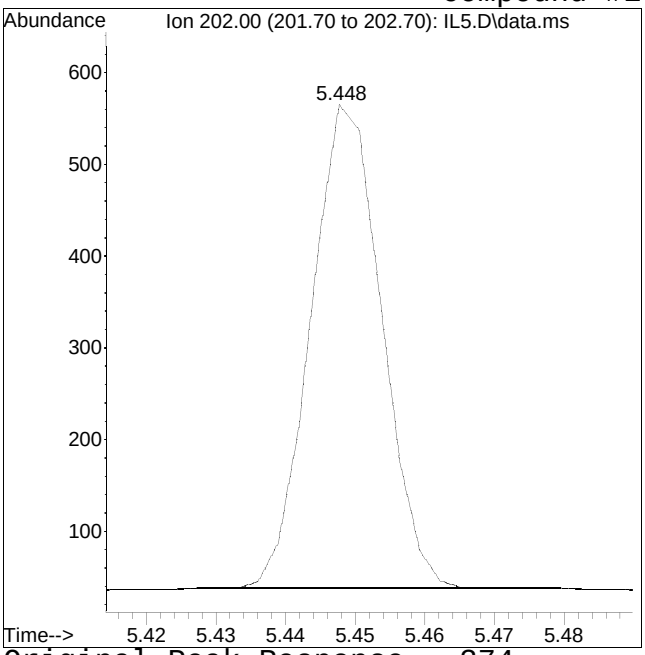
Manual Peak Response = 328 M6

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

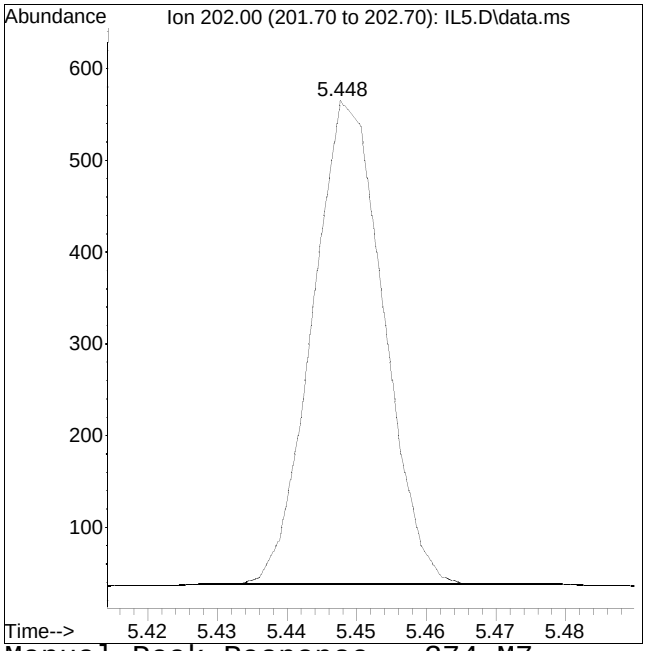
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL5.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:06 am Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 9/5/2023 11:59 am

Compound #28: Fluoranthene



Original Peak Response = 374



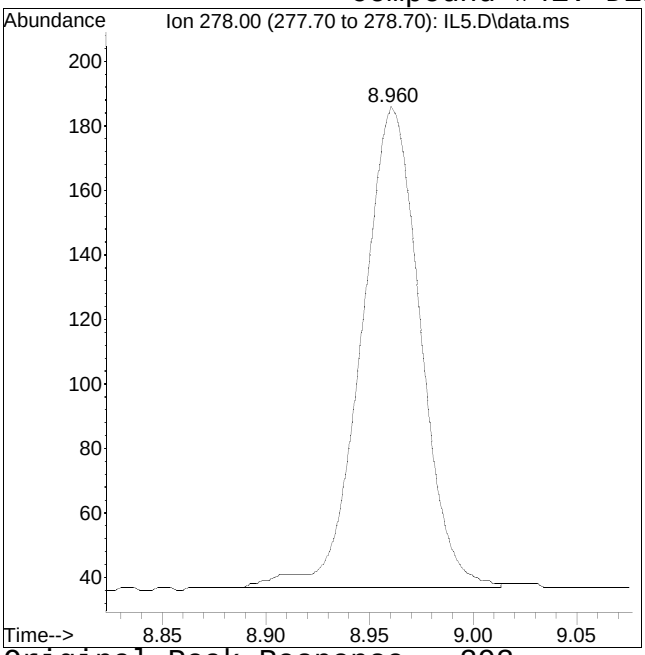
Manual Peak Response = 374 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

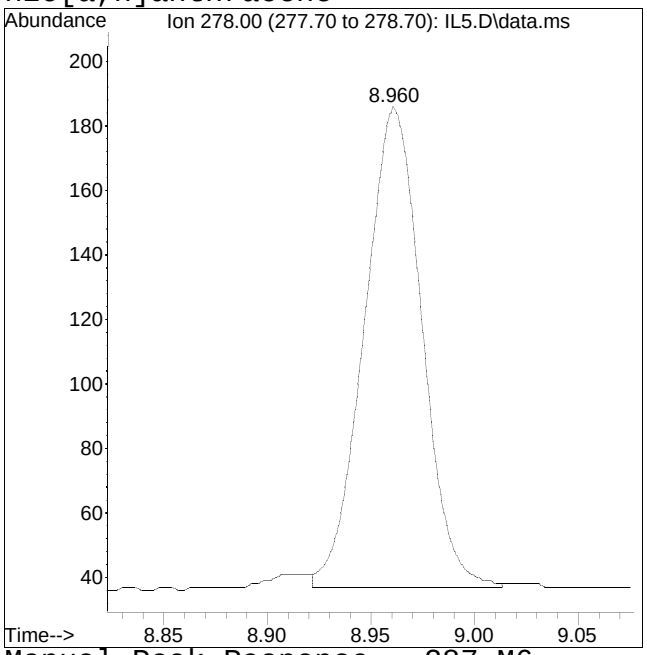
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL5.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:06 am Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 9/5/2023 11:59 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 293



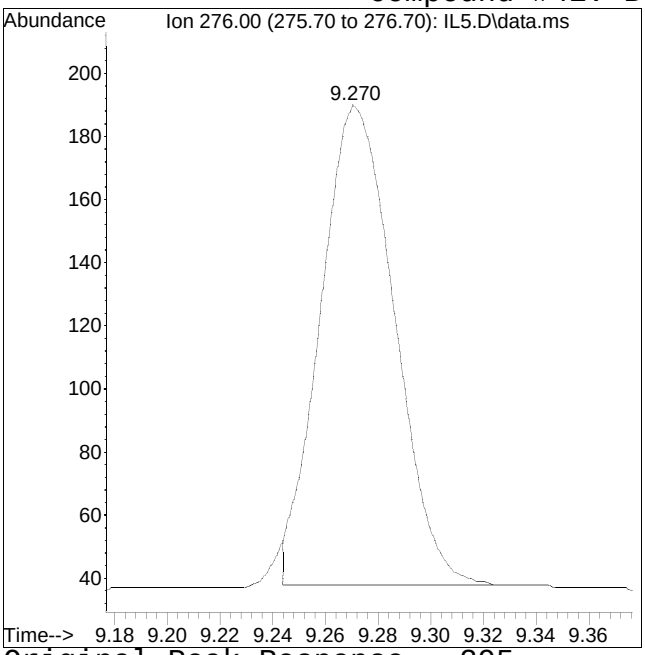
Manual Peak Response = 287 M6

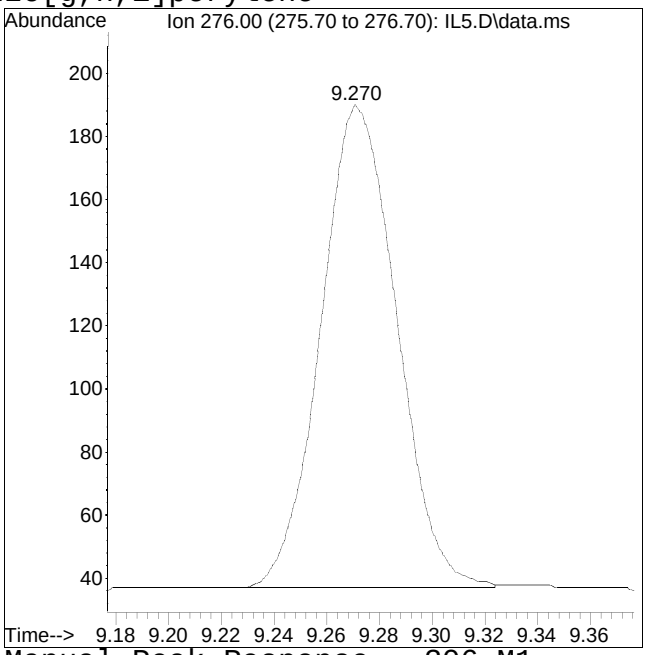
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL5.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:06 am Instrument : SV128
Sample : IL5,32,, 0.1 Lot#10231 Quant Date : 9/5/2023 11:59 am

Compound #42: Benzo[g,h,i]perylene





Original Peak Response = 295 Manual Peak Response = 306 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL4.D
Acq On : 31 Aug 2023 11:23 am
Operator : SV128:ah
Sample : IL4,32,, 0.05 Lot#10232
Misc : WG1823727,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 12:10:46 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:56 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.258	152	2105	4000.000	ng/ml	0.00
Standard Area 1 = 2292			Recovery = 91.84%			
8) Naphthalene-d8	2.923	136	7995	4000.000	ng/ml	0.00
Standard Area 1 = 8982			Recovery = 89.01%			
17) Acenaphthene-d10	3.901	164	4588	4000.000	ng/ml	0.00
Standard Area 1 = 5319			Recovery = 86.26%			
22) Phenanthrene-d10	4.750	188	11126	4000.000	ng/ml	0.00
Standard Area 1 = 12548			Recovery = 88.67%			
31) Chrysene-d12	6.324	240	10924	4000.000	ng/ml	0.00
Standard Area 1 = 11983			Recovery = 91.16%			
36) Perylene-d12	7.604	264	12285	4000.000	ng/ml	0.00
Standard Area 1 = 13430			Recovery = 91.47%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.654	112	27	50.195	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.00%#			
3) Phenol-d6	2.064	99	33	50.135	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.00%#			
7) Nitrobenzene-d5	2.539	82	27	48.394	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.94%#			
13) 2-Fluorobiphenyl	3.522	172	85	51.838	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 2.07%#			
21) 2,4,6-Tribromophenol	4.350	330	8M4	41.528	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.83%#			
30) 4-Terphenyl-d14	5.677	244	125	53.165	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 2.13%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.120	93	29	51.129	ng/ml	98
5) n-nitrosodi-n-propylamine	2.459	70	20M7	47.005	ng/ml	
6) Hexachloroethane	2.520	117	13	51.372	ng/ml	80
9) Naphthalene	2.933	128	101	51.704	ng/ml#	97
10) Hexachlorobutadiene	3.009	225	19	51.727	ng/ml	100
11) 2-Methylnaphthalene	3.315	142	66	50.618	ng/ml	100
12) 1-Methylnaphthalene	3.369	142	62	51.324	ng/ml	99
14) 2-Chloronaphthalene	3.586	162	70M6	51.785	ng/ml	
15) 2,6-Dinitrotoluene	3.779	165	11M4	40.747	ng/ml	
16) Acenaphthylene	3.819	152	106M6	49.242	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL4.D
Acq On : 31 Aug 2023 11:23 am
Operator : SV128:ah
Sample : IL4,32,, 0.05 Lot#10232
Misc : WG1823727,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 12:10:46 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:56 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.919	153	75M7	51.593	ng/ml	
19) 2,4-Dinitrotoluene	4.011	165	14	40.172	ng/ml	90
20) Fluorene	4.213	166	82M6	51.693	ng/ml	
23) 4,6-Dinitro-o-cresol	4.240	198	5M3	83.487	ng/ml	
24) Hexachlorobenzene	4.531	284	32M4	53.558	ng/ml	
25) Pentachlorophenol	4.644	266	13M4	55.387	ng/ml	
26) Phenanthrene	4.762	178	147M6	52.994	ng/ml	
27) Anthracene	4.791	178	138	51.121	ng/ml	100
28) Fluoranthene	5.450	202	168M6	52.129	ng/ml	
29) Pyrene	5.581	202	176	52.765	ng/ml	98
32) Benzo[a]anthracene	6.318	228	207	51.389	ng/ml	93
33) 3,3'-Dichlorobenzidine	6.307	252	61M7	44.774	ng/ml	
34) Chrysene	6.343	228	178	52.814	ng/ml	96
35) Bis(2-ethylhexyl)phtha...	6.364	149	82	38.545	ng/ml	93
37) Benzo[b]fluoranthene	7.208	252	175	50.559	ng/ml	99
38) Benzo[k]fluoranthene	7.233	252	158M4	49.325	ng/ml	
39) Benzo[a]pyrene	7.538	252	146	49.113	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	8.911	276	143	48.067	ng/ml	99
41) Dibenzo[a,h]anthracene	8.955	278	136	47.494	ng/ml	98
42) Benzo[g,h,i]perylene	9.268	276	146M4	47.801	ng/ml	

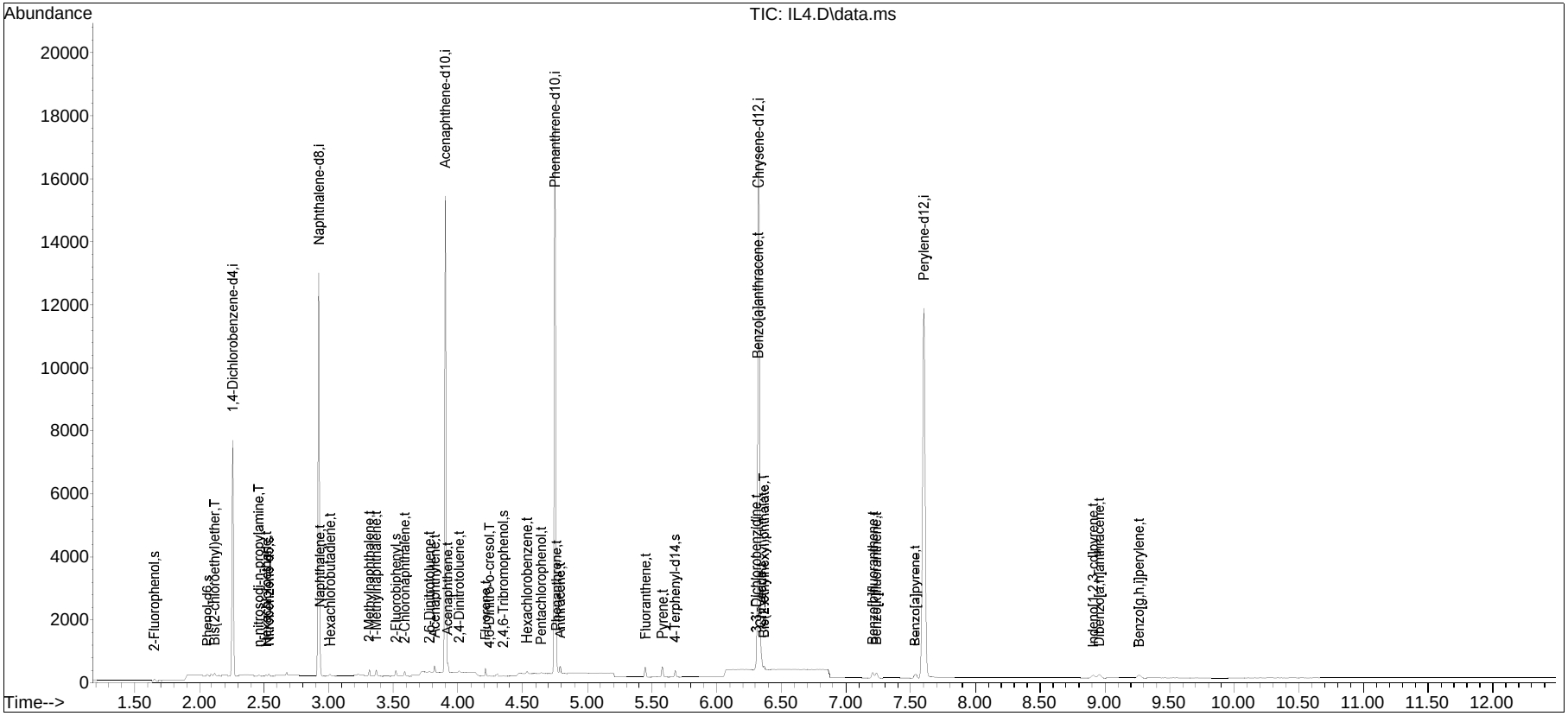
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL4.D
Acq On : 31 Aug 2023 11:23 am
Operator : SV128:ah
Sample : IL4,32,, 0.05 Lot#10232
Misc : WG1823727,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 05 12:10:46 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:56 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•

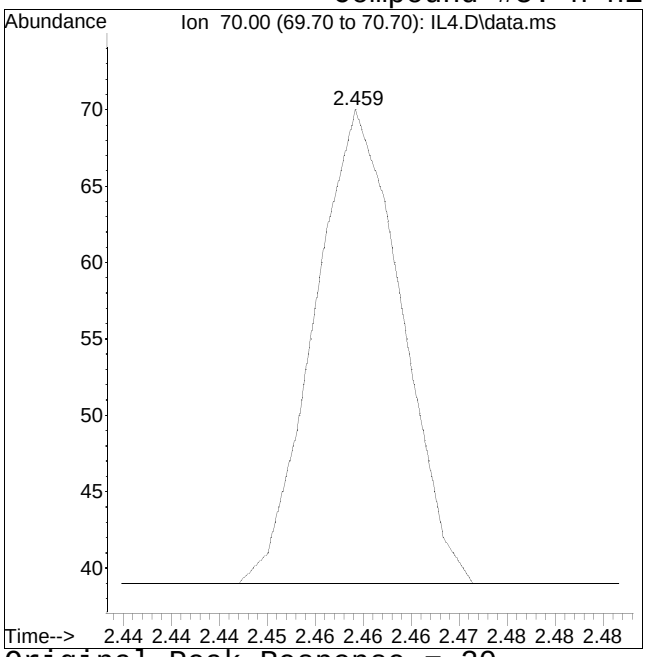


Manual Integration Report

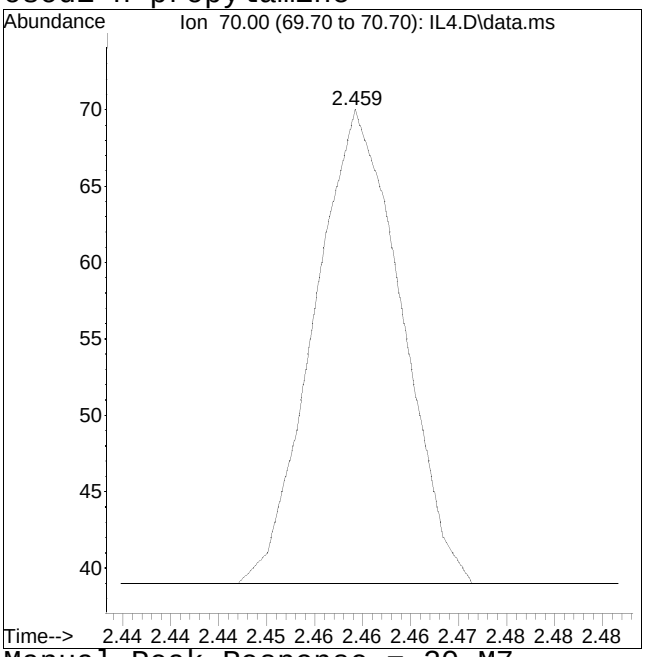
Data Path : I:\8270SIM\SV128\230831aLVQ
Data File : IL4.D
Date Inj'd : 8/31/2023 11:23 am
Sample : IL4,32,, 0.05 Lot#10232

Method : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 9/5/2023 11:58 am

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 20



Manual Peak Response = 20 M7

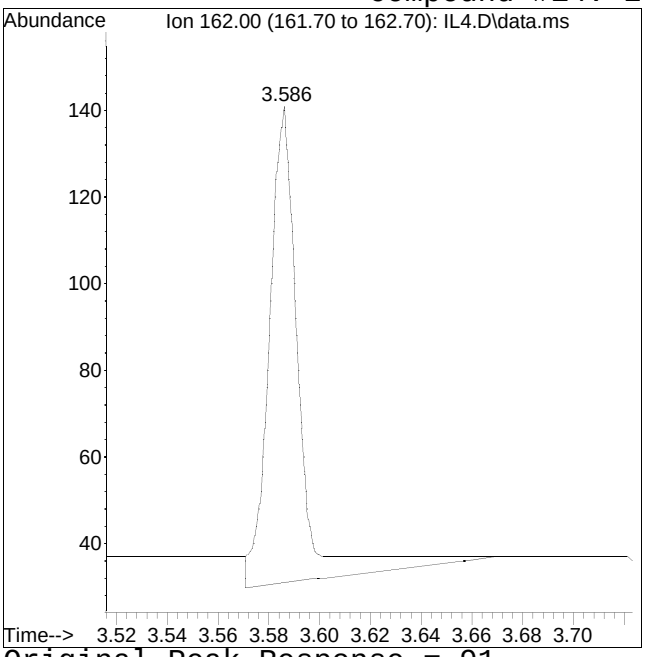
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

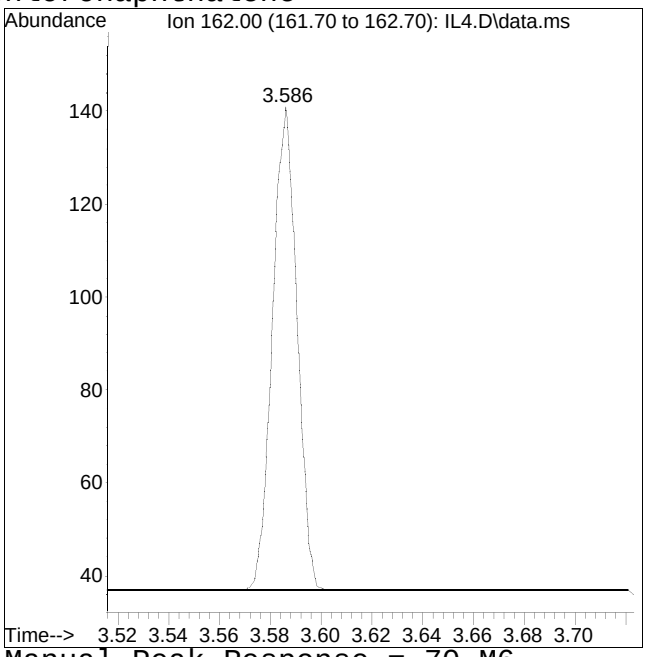
Data Path : I:\8270SIM\SV128\230831aLVQ
Data File : IL4.D
Date Inj'd : 8/31/2023 11:23 am
Sample : IL4,32,, 0.05 Lot#10232

Method : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 9/5/2023 11:58 am

Compound #14: 2-Chloronaphthalene



Original Peak Response = 91



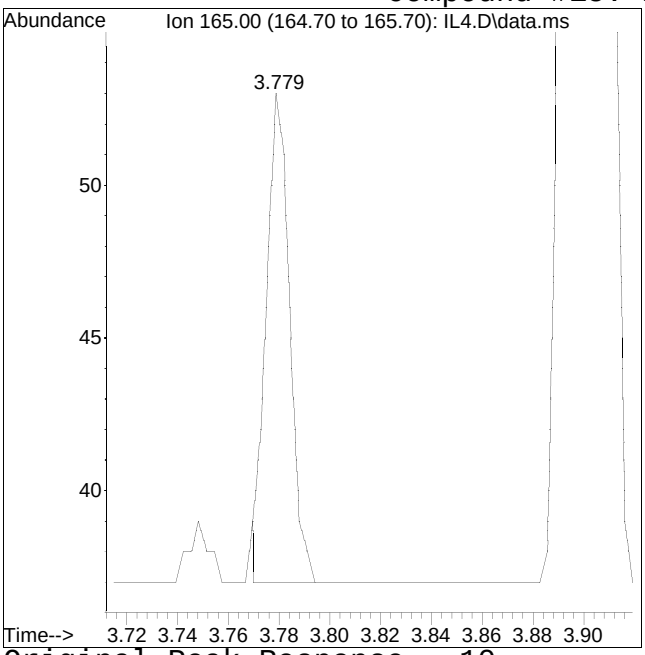
Manual Peak Response = 70 M6

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

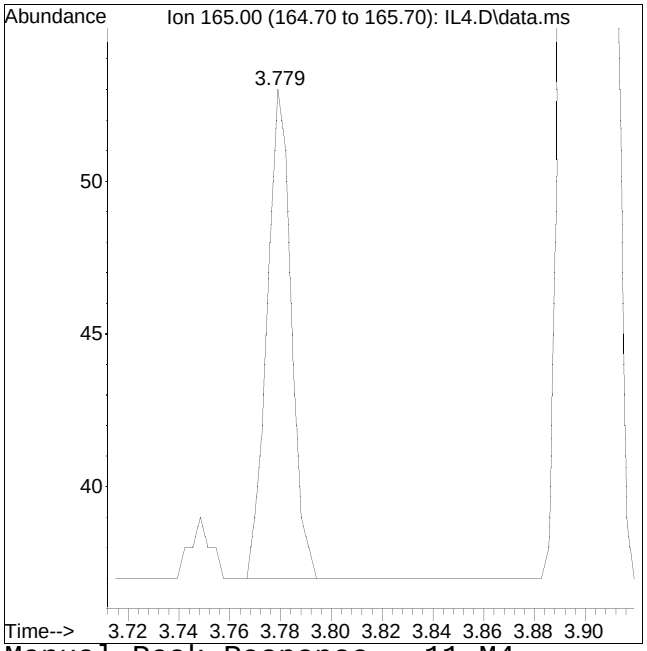
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL4.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:23 am Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 9/5/2023 11:58 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 10



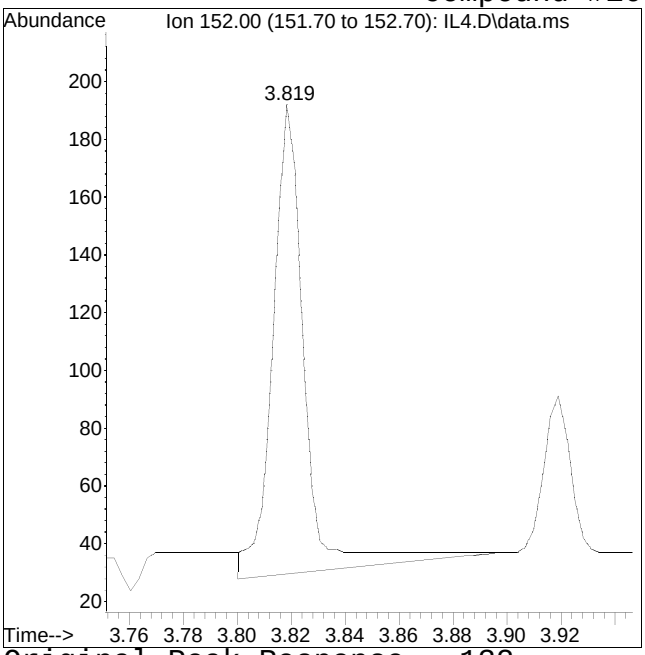
Manual Peak Response = 11 M4

M4 = Poor automated baseline construction.

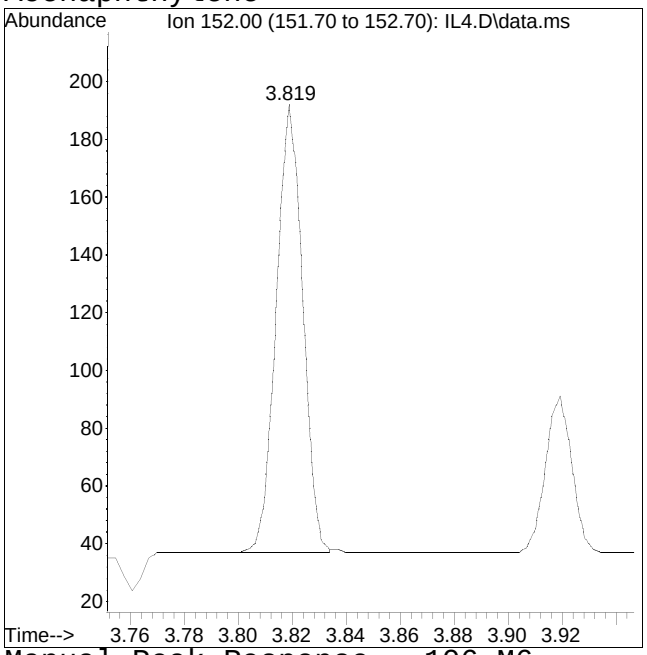
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL4.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:23 am Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 9/5/2023 11:58 am

Compound #16: Acenaphthylene



Original Peak Response = 132



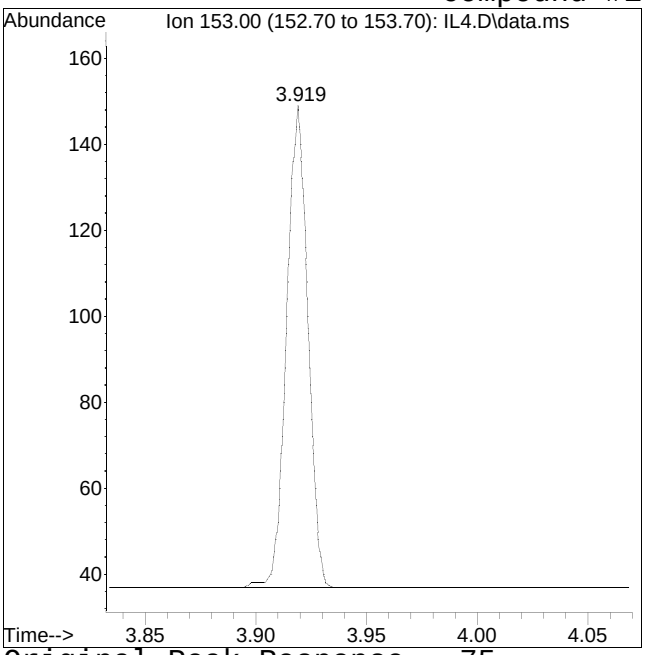
Manual Peak Response = 106 M6

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

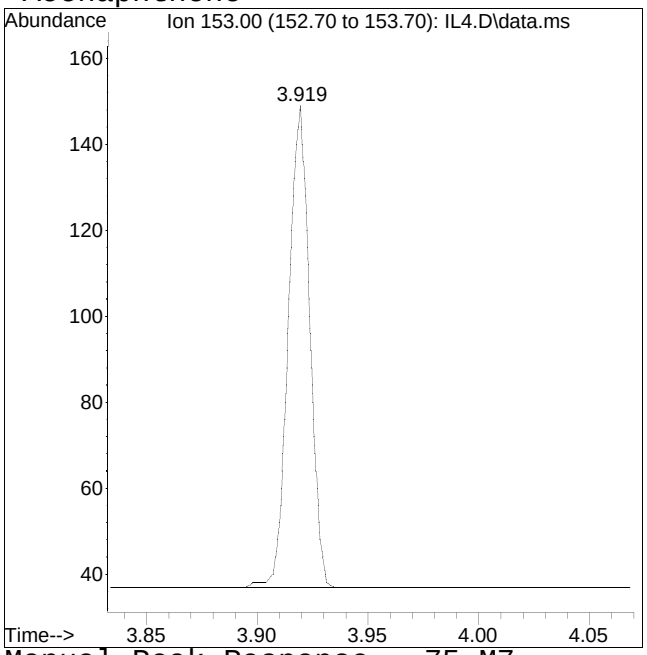
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL4.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:23 am Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 9/5/2023 11:58 am

Compound #18: Acenaphthene



Original Peak Response = 75



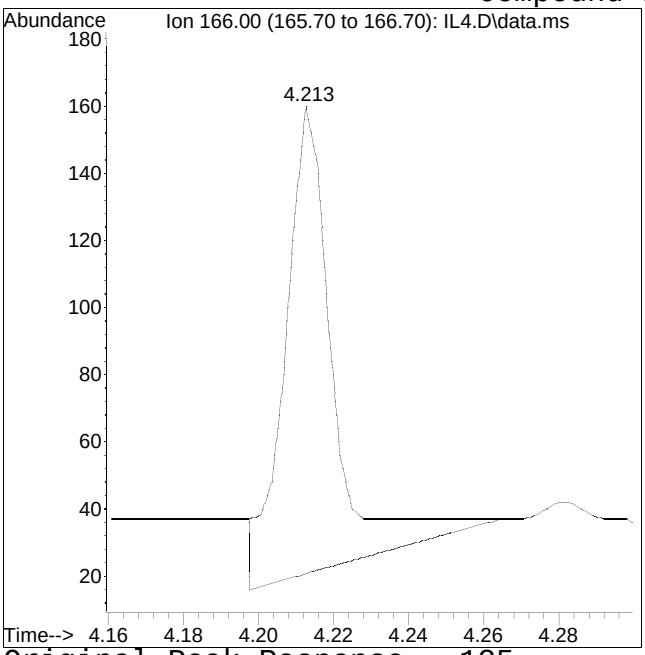
Manual Peak Response = 75 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

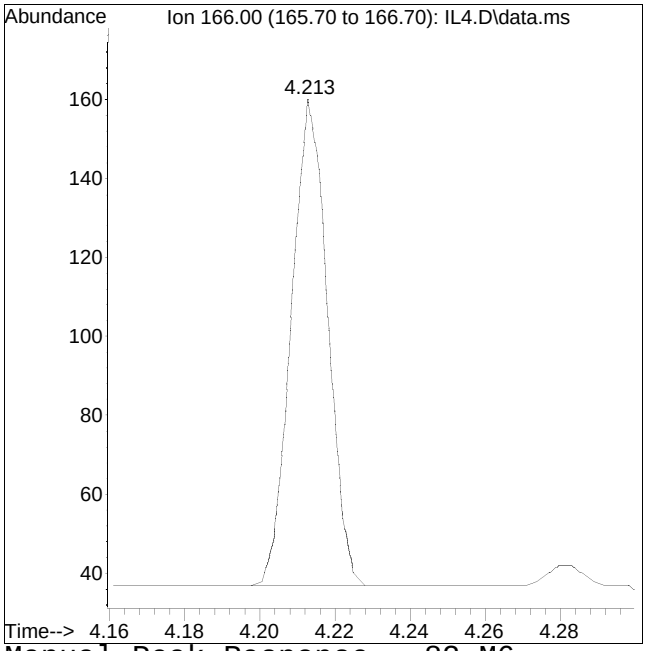
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL4.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:23 am Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 9/5/2023 11:58 am

Compound #20: Fluorene



Original Peak Response = 125



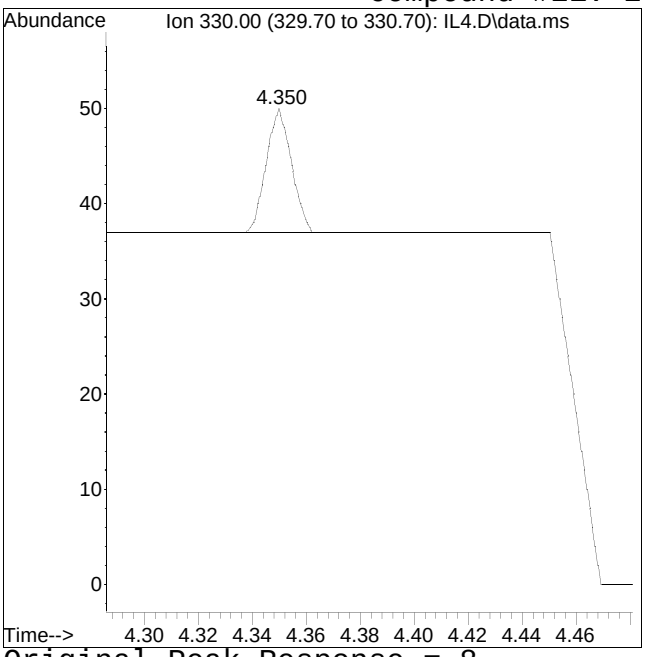
Manual Peak Response = 82 M6

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

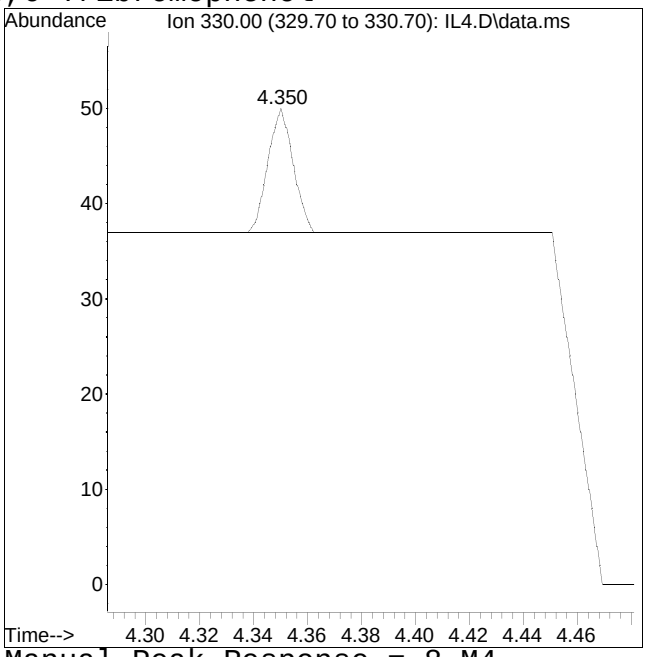
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL4.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:23 am Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 9/5/2023 11:58 am

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 8



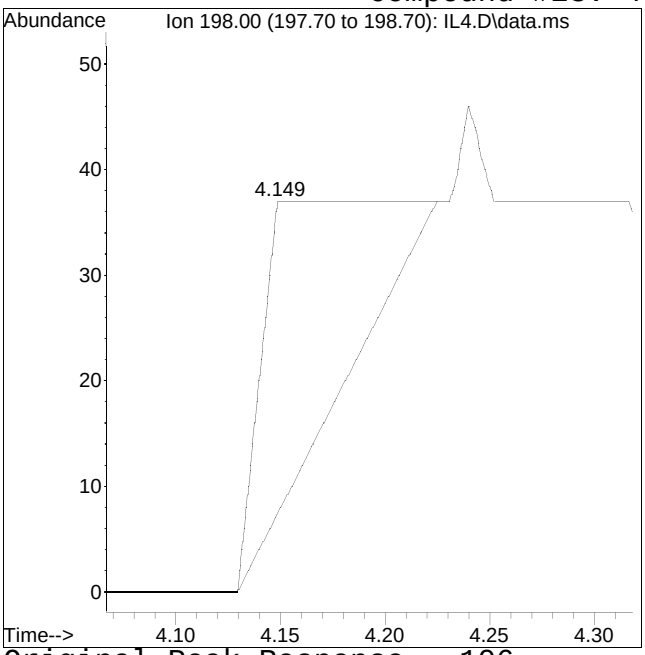
Manual Peak Response = 8 M4

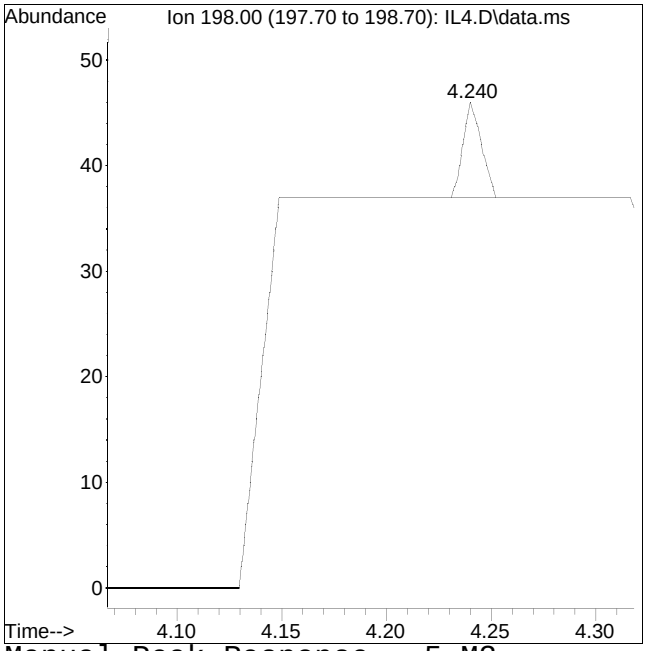
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL4.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:23 am Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 9/5/2023 11:58 am

Compound #23: 4,6-Dinitro-o-cresol





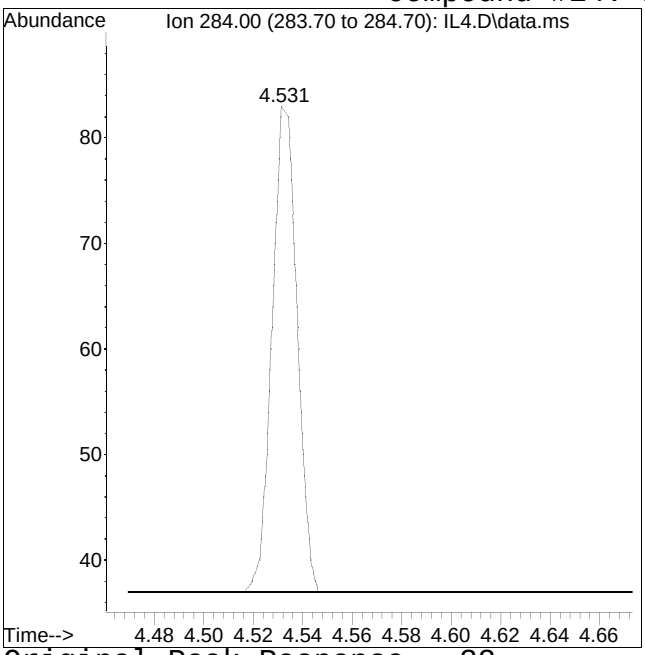
Original Peak Response = 106 Manual Peak Response = 5 M3

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

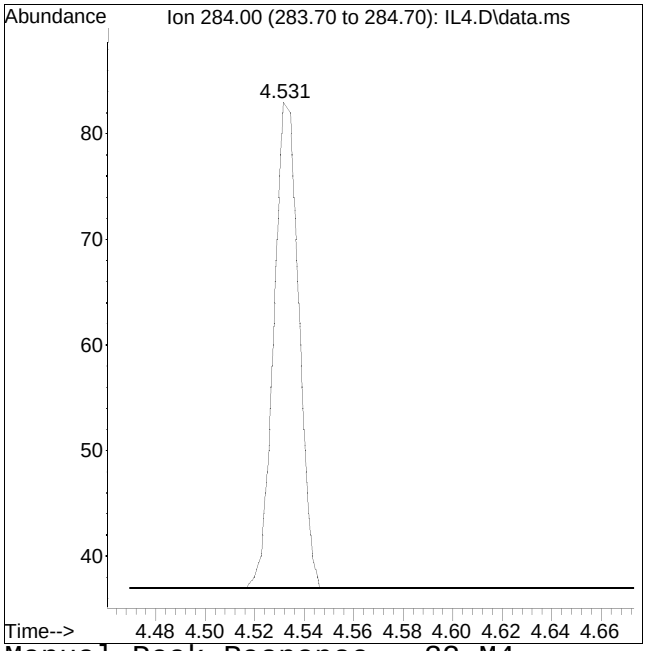
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL4.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:23 am Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 9/5/2023 11:58 am

Compound #24: Hexachlorobenzene



Original Peak Response = 32



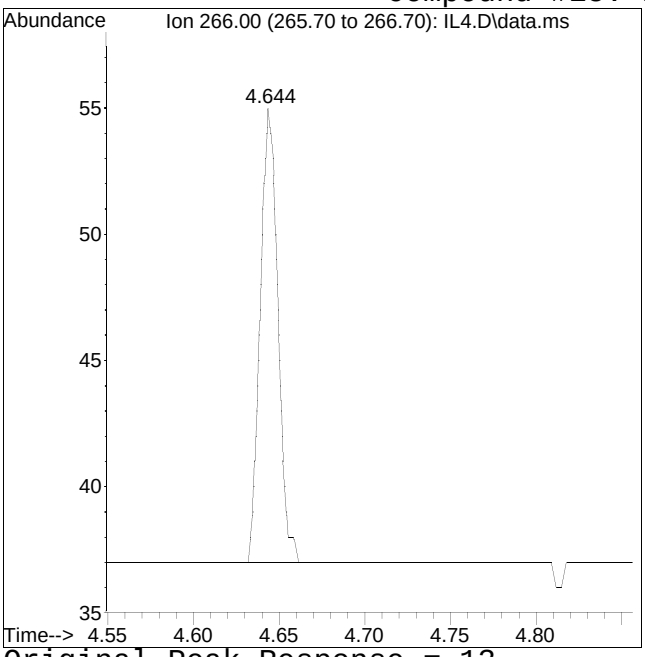
Manual Peak Response = 32 M4

M4 = Poor automated baseline construction.

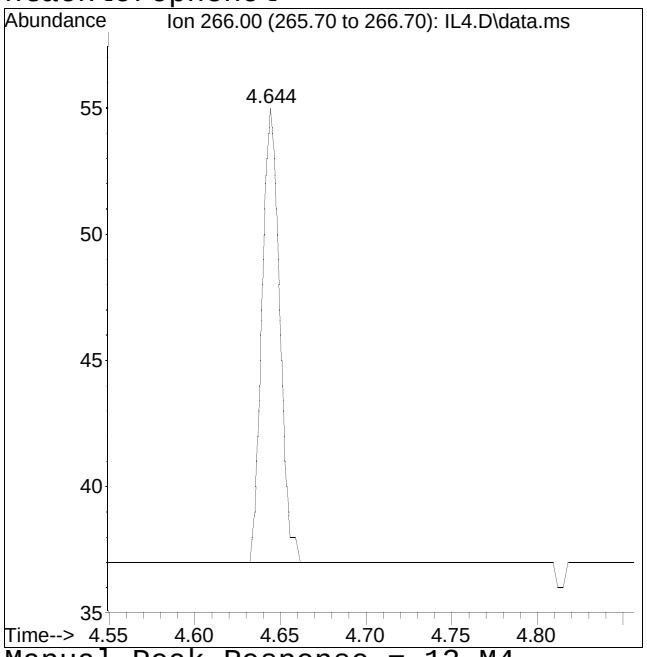
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL4.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:23 am Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 9/5/2023 11:58 am

Compound #25: Pentachlorophenol



Original Peak Response = 13



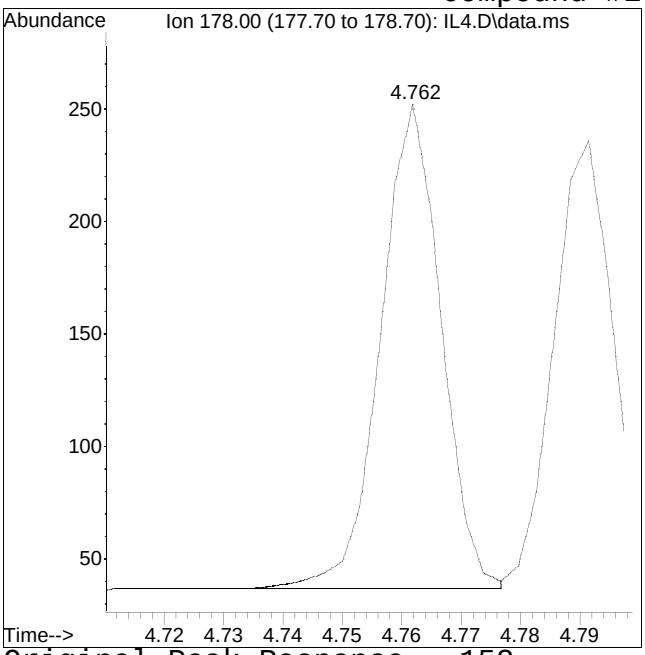
Manual Peak Response = 13 M4

M4 = Poor automated baseline construction.

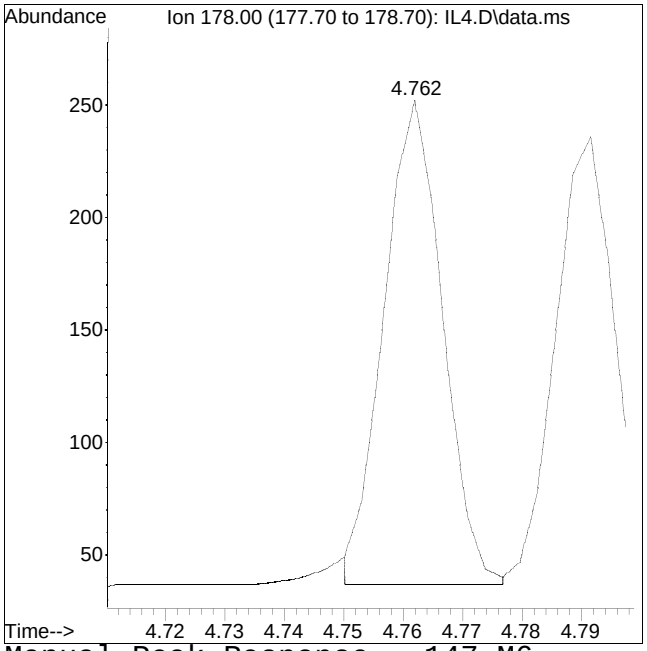
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL4.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:23 am Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 9/5/2023 11:58 am

Compound #26: Phenanthrene



Original Peak Response = 152



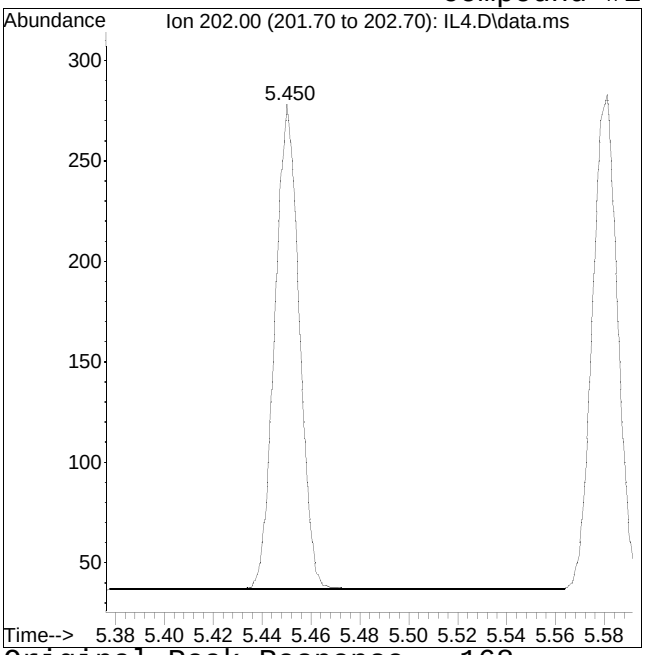
Manual Peak Response = 147 M6

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

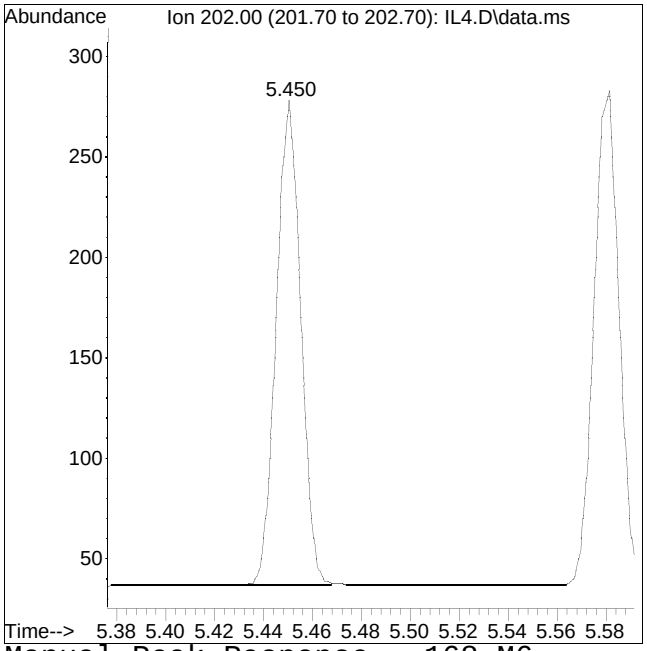
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL4.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:23 am Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 9/5/2023 11:58 am

Compound #28: Fluoranthene



Original Peak Response = 168



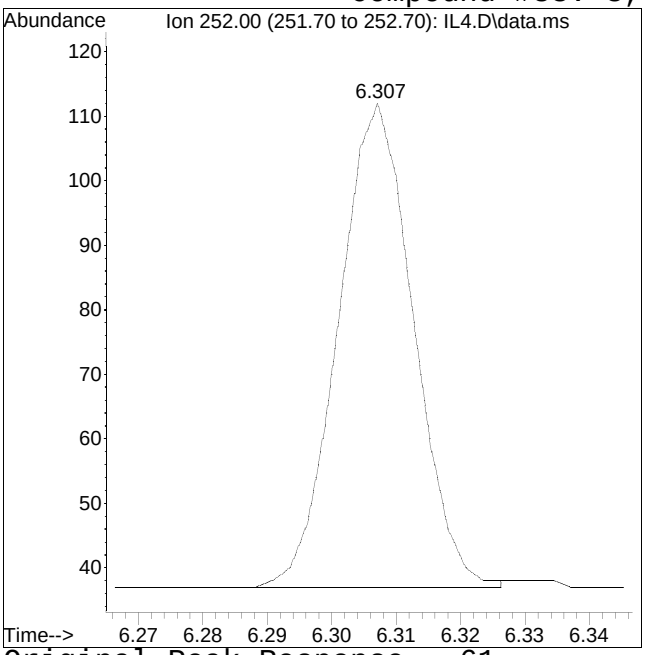
Manual Peak Response = 168 M6

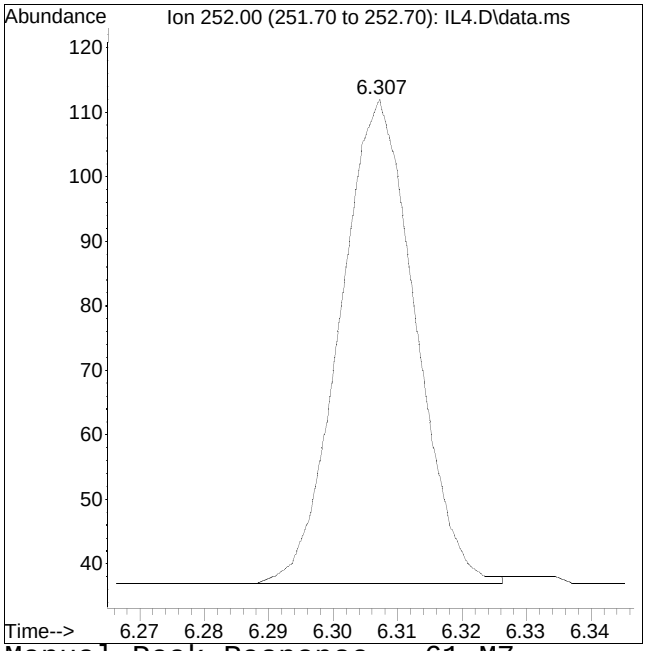
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL4.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:23 am Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 9/5/2023 11:58 am

Compound #33: 3,3'-Dichlorobenzidine



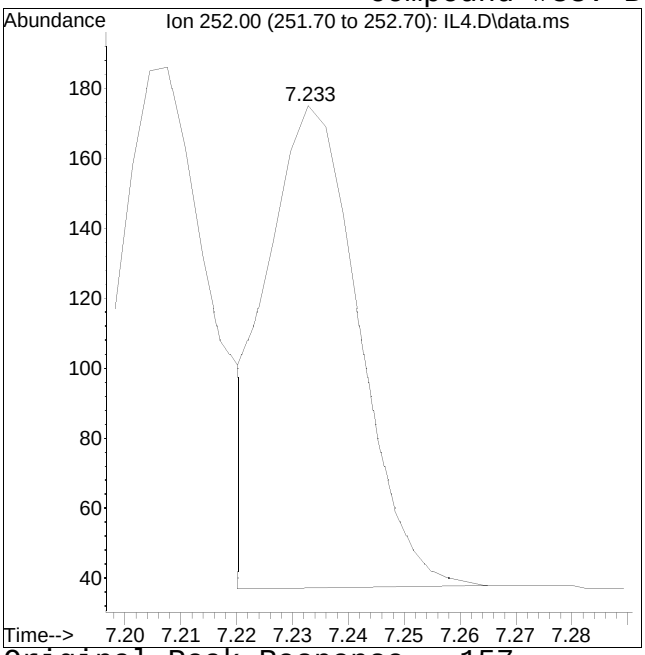


Original Peak Response = 61 Manual Peak Response = 61 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

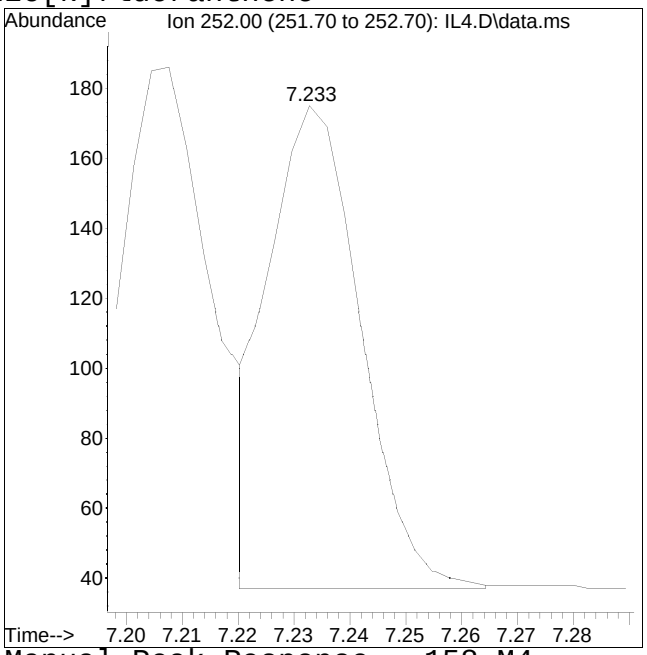
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL4.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:23 am Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 9/5/2023 11:58 am

Compound #38: Benzo[k]fluoranthene



Original Peak Response = 157



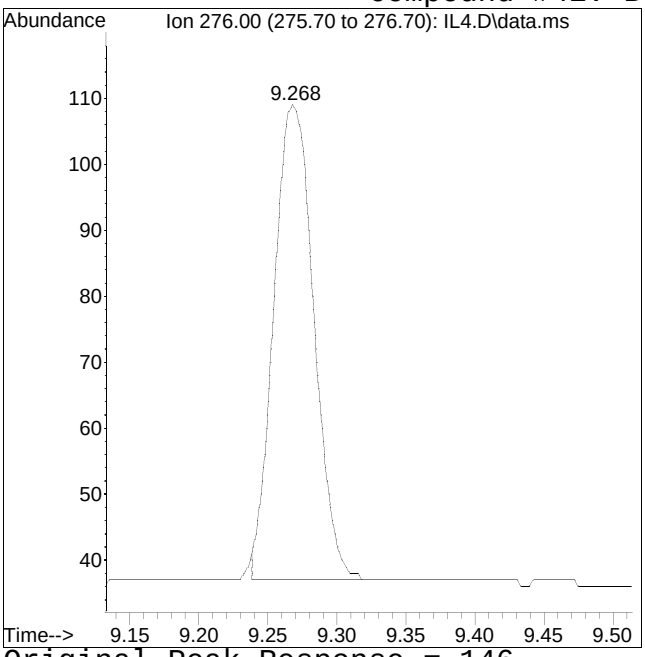
Manual Peak Response = 158 M4

M4 = Poor automated baseline construction.

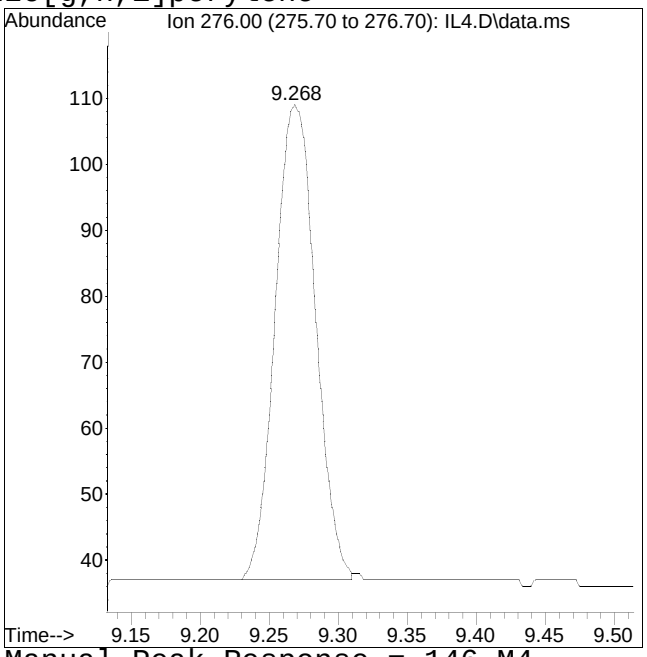
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL4.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:23 am Instrument : SV128
Sample : IL4,32,, 0.05 Lot#10232 Quant Date : 9/5/2023 11:58 am

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 146



Manual Peak Response = 146 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL2.D
Acq On : 31 Aug 2023 11:56 am
Operator : SV128:ah
Sample : IL2,32,, 0.01 Lot#10234
Misc : WG1823727,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 12:46:34 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:39 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.259	152	2140	4000.000	ng/ml	0.00
Standard Area 1 = 2292			Recovery = 93.37%			
8) Naphthalene-d8	2.922	136	8063	4000.000	ng/ml	0.00
Standard Area 1 = 8982			Recovery = 89.77%			
17) Acenaphthene-d10	3.903	164	4700	4000.000	ng/ml	0.00
Standard Area 1 = 5319			Recovery = 88.36%			
22) Phenanthrene-d10	4.749	188	11223	4000.000	ng/ml	0.00
Standard Area 1 = 12548			Recovery = 89.44%			
31) Chrysene-d12	6.325	240	10733	4000.000	ng/ml	0.00
Standard Area 1 = 11983			Recovery = 89.57%			
36) Perylene-d12	7.608	264	12011	4000.000	ng/ml	0.00
Standard Area 1 = 13430			Recovery = 89.43%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.654	112	6M7	10.972	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.22%#			
3) Phenol-d6	2.065	99	7M7	10.461	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.21%#			
7) Nitrobenzene-d5	2.540	82	5M3	8.815	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.35%#			
13) 2-Fluorobiphenyl	3.521	172	17M4	10.280	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.41%#			
21) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng/ml	
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	5.679	244	26M7	10.963	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.44%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.121	93	6M7	10.405	ng/ml	
5) n-nitrosodi-n-propylamine	2.461	70	4M3	9.247	ng/ml	
6) Hexachloroethane	2.519	117	3M2	11.661	ng/ml	
9) Naphthalene	2.934	128	21M7	10.660	ng/ml	
10) Hexachlorobutadiene	3.008	225	4M2	10.798	ng/ml	
11) 2-Methylnaphthalene	3.316	142	13	9.886	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL2.D
Acq On : 31 Aug 2023 11:56 am
Operator : SV128:ah
Sample : IL2,32,, 0.01 Lot#10234
Misc : WG1823727,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 12:46:34 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:39 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
12) 1-Methylnaphthalene	3.371	142	12M4	9.850	ng/ml	
14) 2-Chloronaphthalene	3.585	162	13M6	9.536	ng/ml	
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.820	152	21M7	9.673	ng/ml	
18) Acenaphthene	3.918	153	16M4	10.744	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	4.212	166	17M6	10.462	ng/ml	
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.533	284	6M2	9.955	ng/ml	
25) Pentachlorophenol	4.643	266	2M2	26.609	ng/ml	
26) Phenanthrene	4.764	178	32M6	11.436	ng/ml	
27) Anthracene	4.790	178	28	10.283	ng/ml	95
28) Fluoranthene	5.449	202	36M6	11.074	ng/ml	
29) Pyrene	5.583	202	36M4	10.700	ng/ml	
32) Benzo[a]anthracene	6.322	228	68M6	12.493	ng/ml	
33) 3,3'-Dichlorobenzidine	6.308	252	12M4	8.965	ng/ml	
34) Chrysene	6.344	228	36M6	10.872	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.366	149	16M7	7.655	ng/ml	
37) Benzo[b]fluoranthene	7.212	252	32	9.456	ng/ml	100
38) Benzo[k]fluoranthene	7.237	252	31	9.898	ng/ml	98
39) Benzo[a]pyrene	7.538	252	27	9.290	ng/ml	99
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	8.956	278	24M7	8.572	ng/ml	
42) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

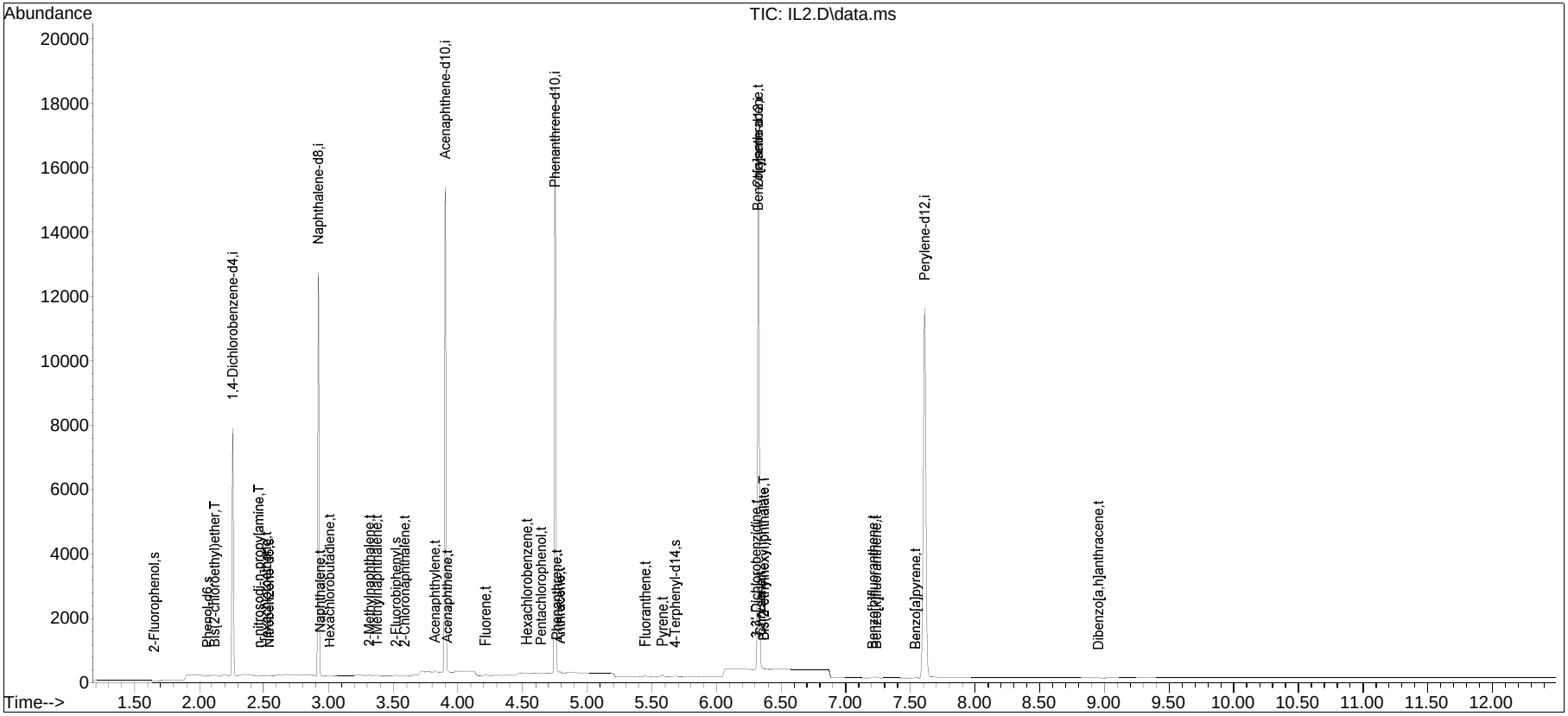
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL2.D
Acq On : 31 Aug 2023 11:56 am
Operator : SV128:ah
Sample : IL2,32,, 0.01 Lot#10234
Misc : WG1823727,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 05 12:46:34 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:39 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•

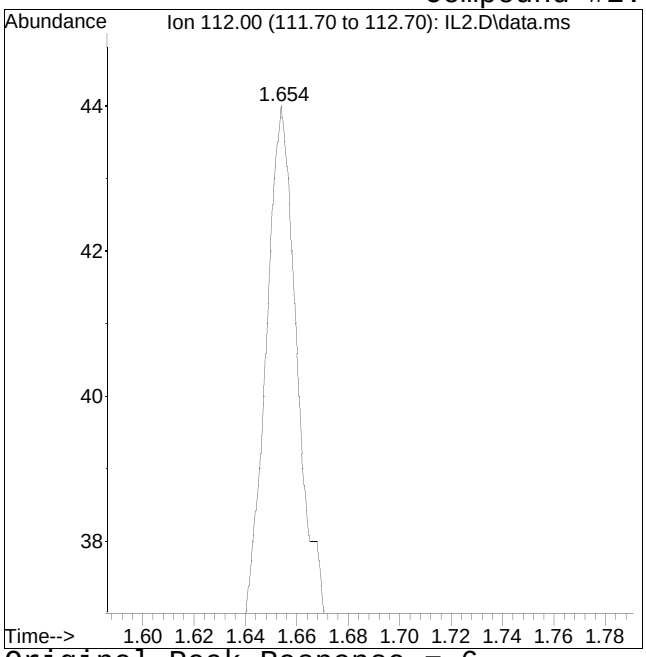


Manual Integration Report

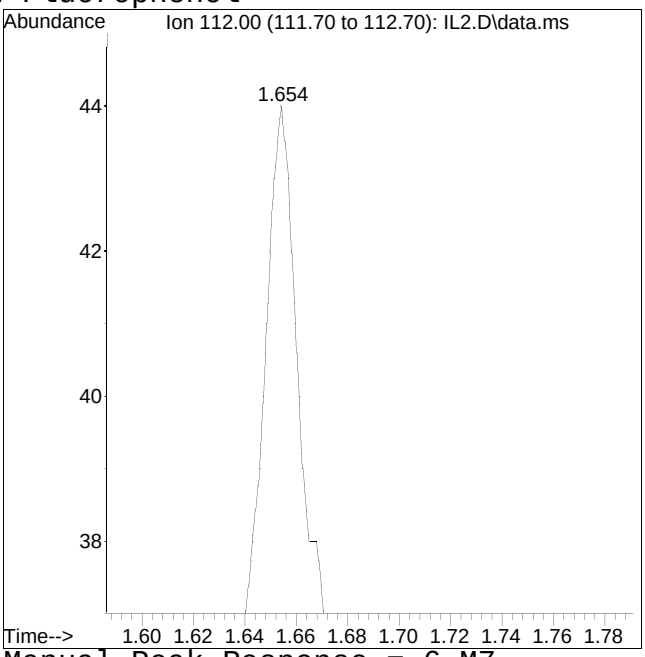
Data Path : I:\8270SIM\SV128\230831aLVQ
Data File : IL2.D
Date Inj'd : 8/31/2023 11:56 am
Sample : IL2,32,, 0.01 Lot#10234

Method : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 9/5/2023 11:58 am

Compound #2: 2-Fluorophenol



Original Peak Response = 6



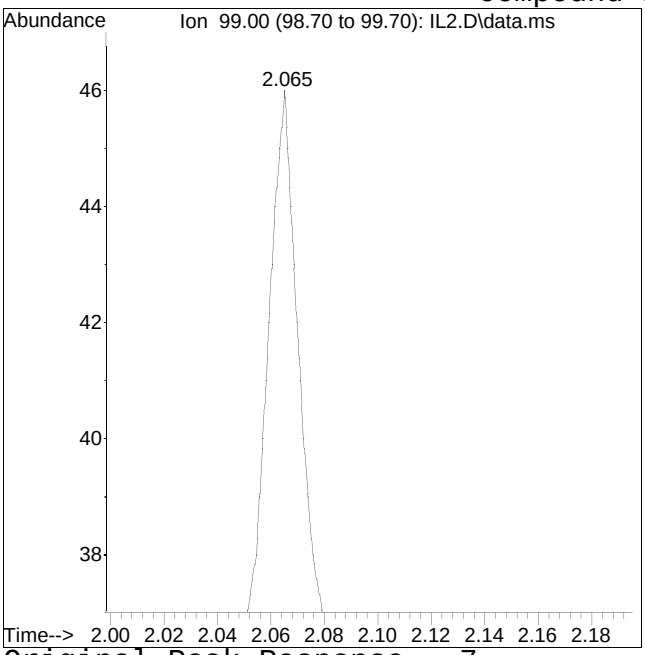
Manual Peak Response = 6 M7

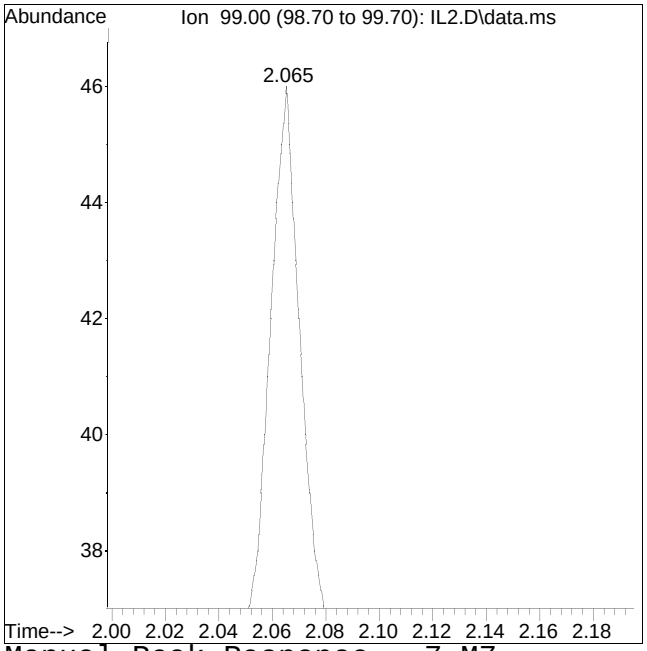
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #3: Phenol-d6





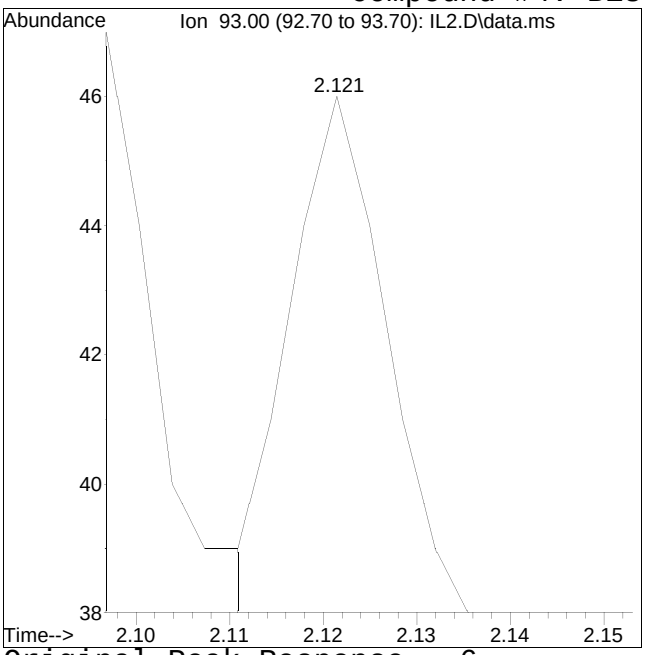
Original Peak Response = 7 Manual Peak Response = 7 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

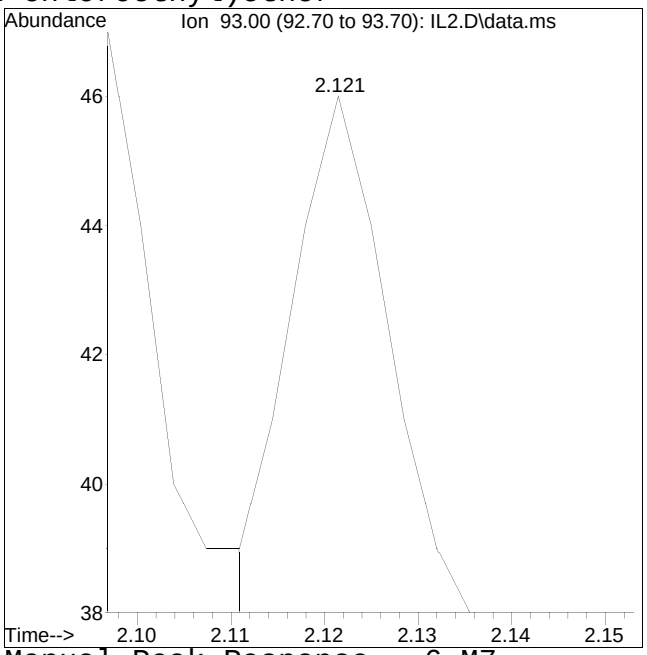
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 6



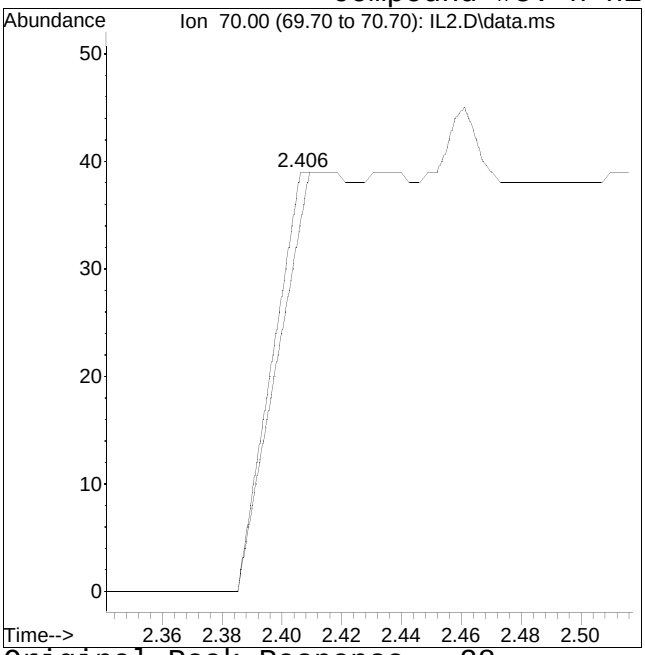
Manual Peak Response = 6 M7

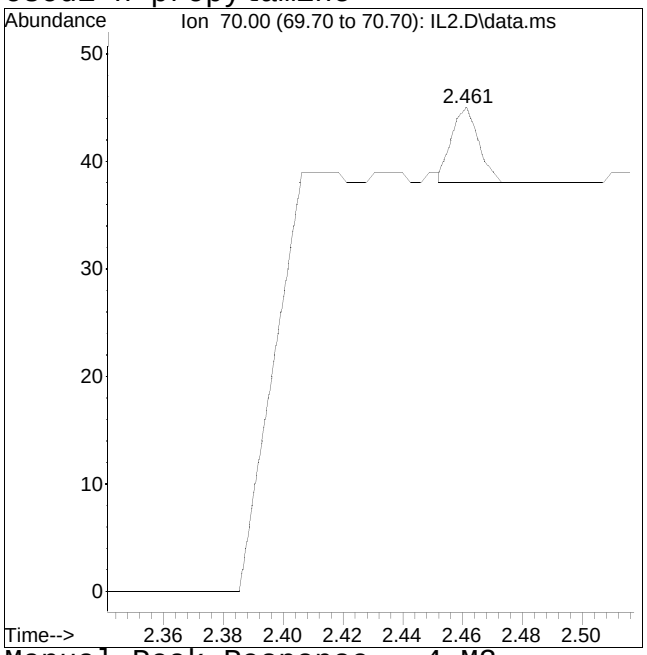
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #5: n-nitrosodi-n-propylamine





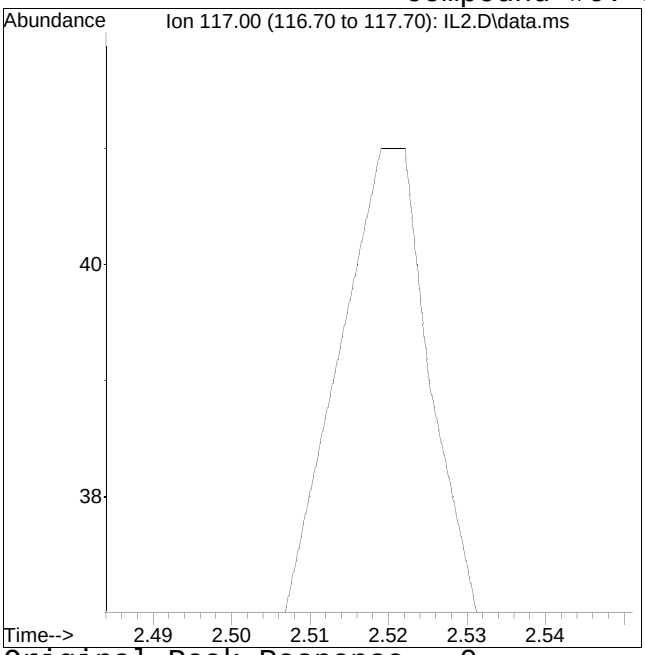
Original Peak Response = 28 Manual Peak Response = 4 M3

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

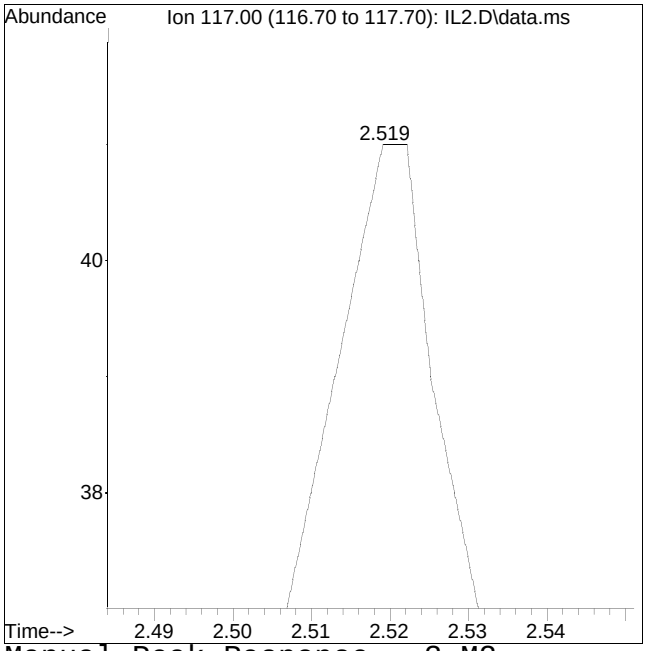
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #6: Hexachloroethane



Original Peak Response = 0



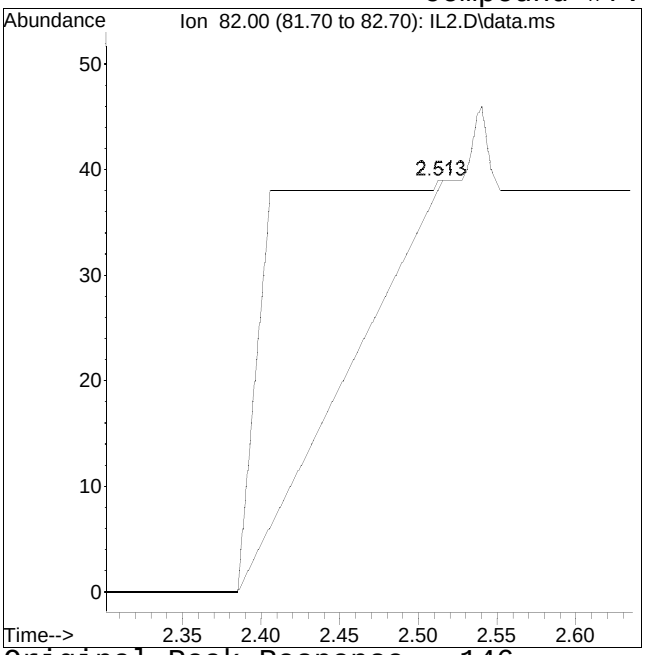
Manual Peak Response = 3 M2

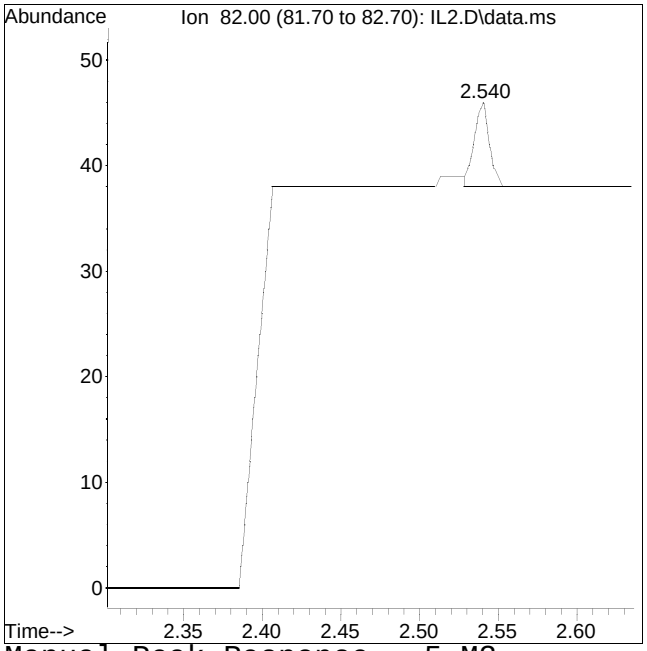
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #7: Nitrobenzene-d5



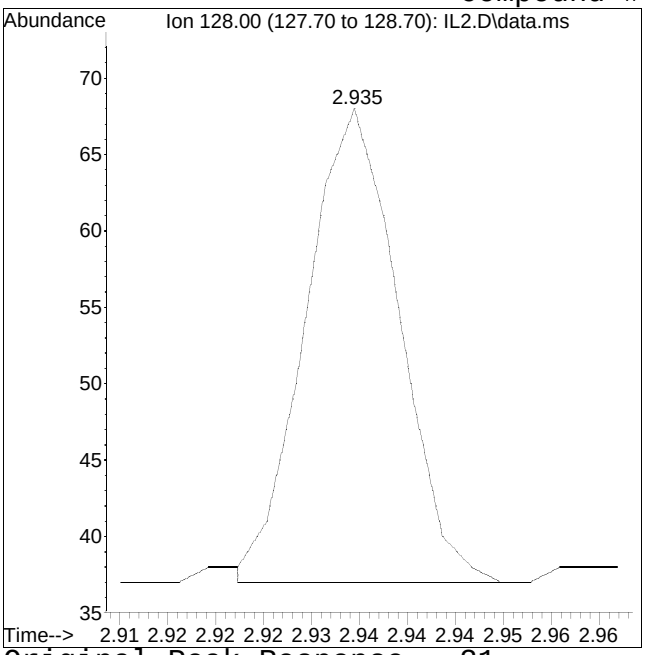


Original Peak Response = 146 Manual Peak Response = 5 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

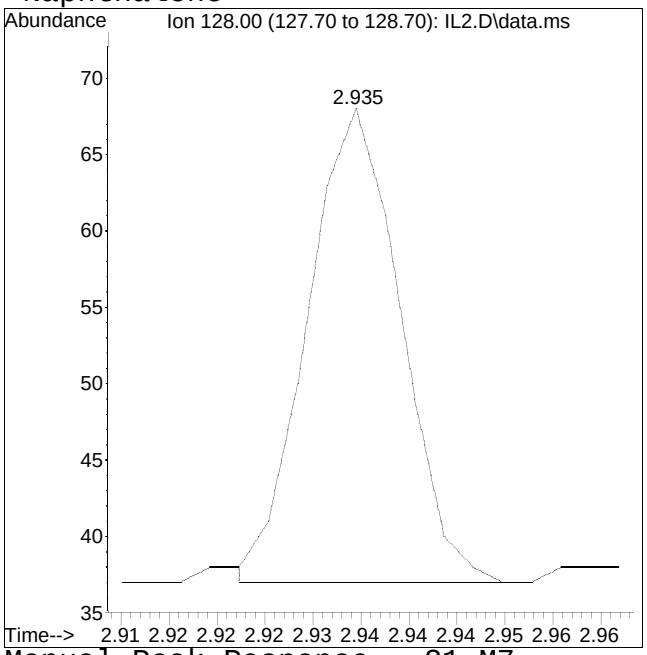
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #9: Naphthalene



Original Peak Response = 21



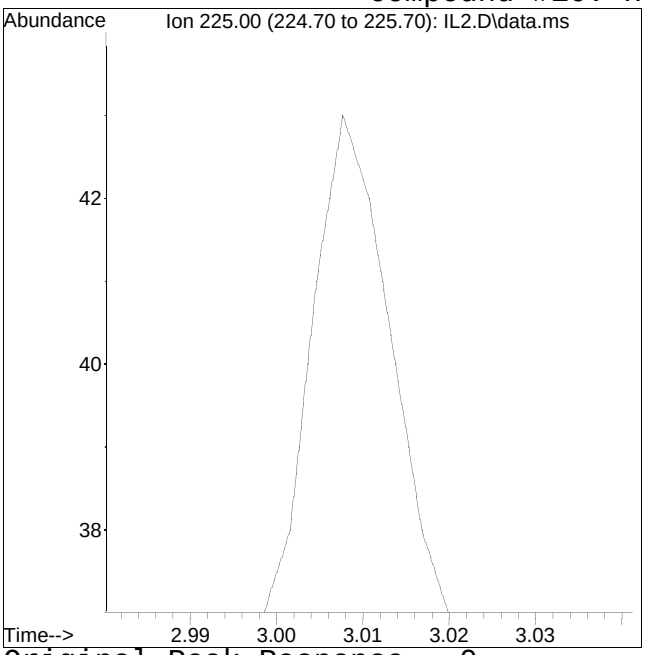
Manual Peak Response = 21 M7

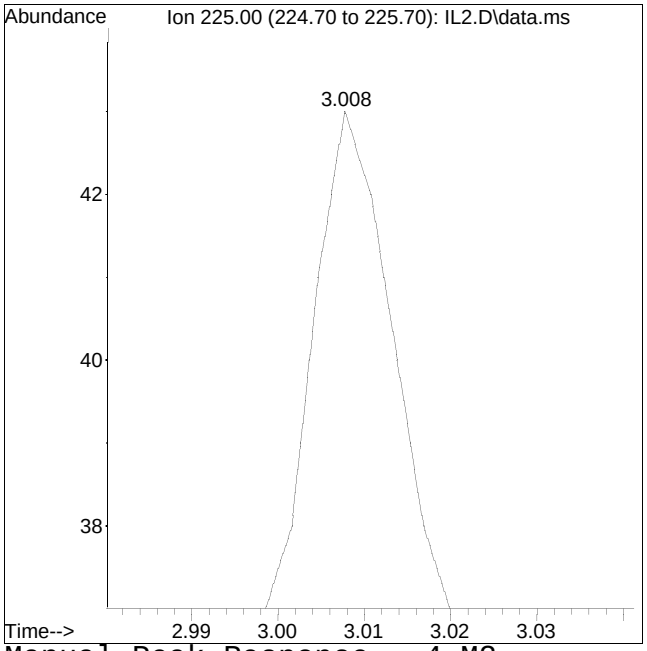
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #10: Hexachlorobutadiene



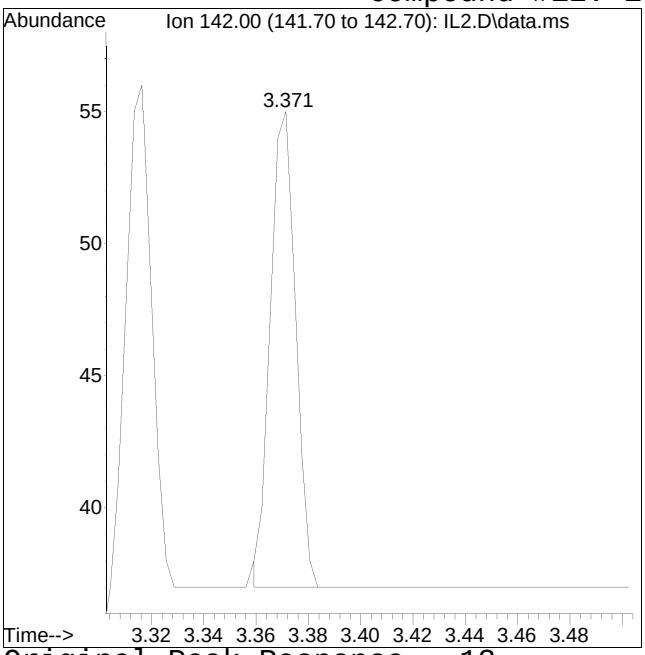


Original Peak Response = 0 Manual Peak Response = 4 M2
M2 = Peak not found by automatic integration algorithm.

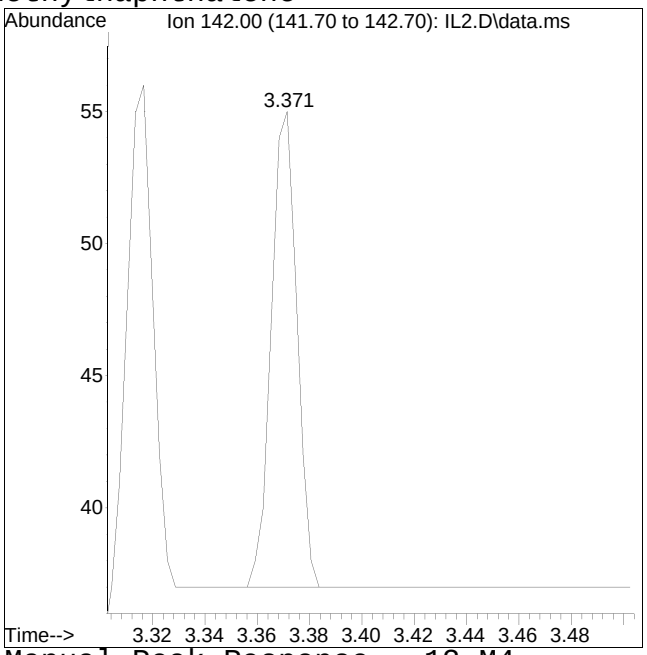
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #12: 1-Methylnaphthalene



Original Peak Response = 12



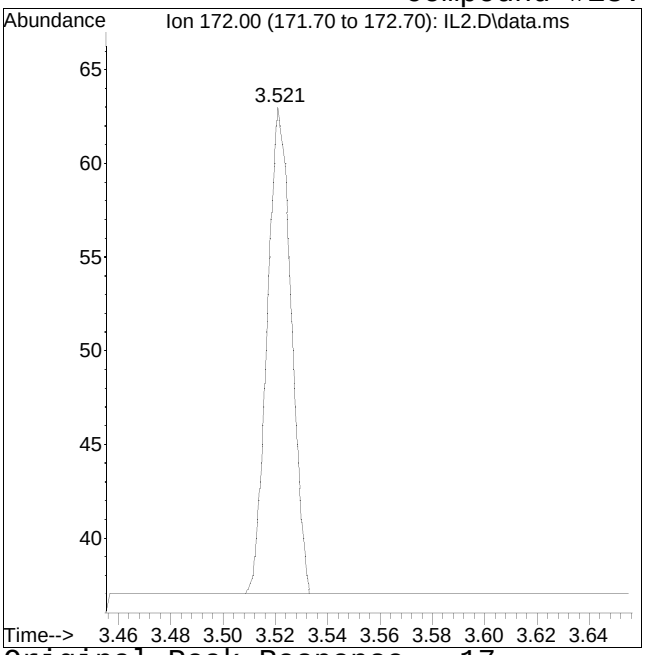
Manual Peak Response = 12 M4

M4 = Poor automated baseline construction.

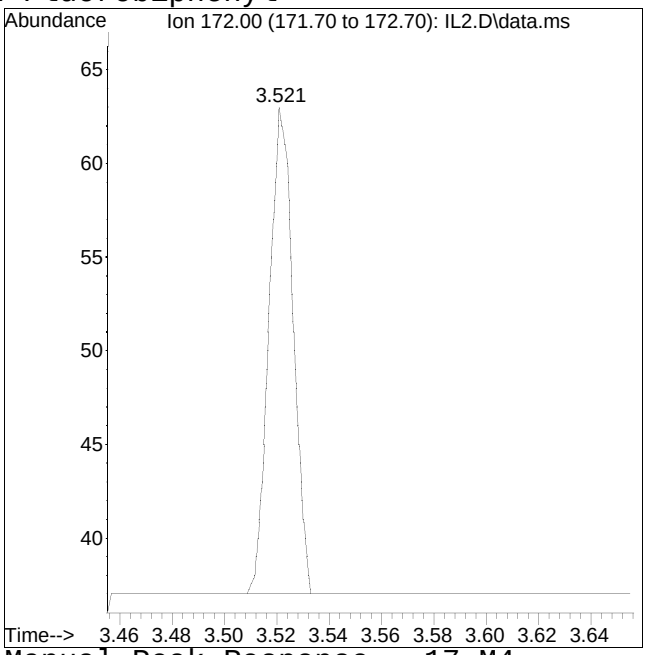
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #13: 2-Fluorobiphenyl



Original Peak Response = 17



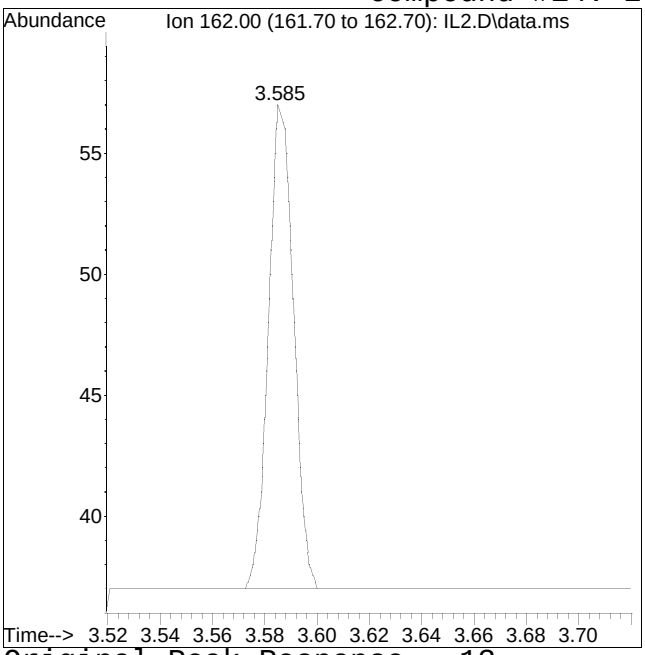
Manual Peak Response = 17 M4

M4 = Poor automated baseline construction.

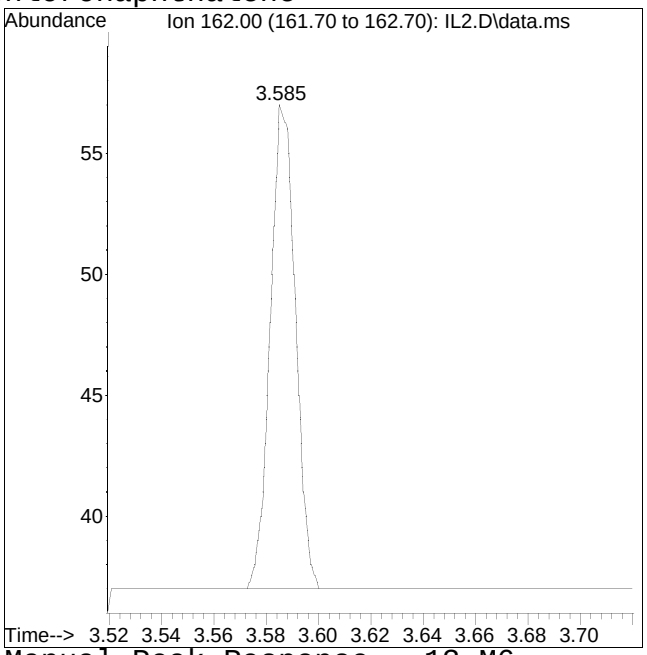
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #14: 2-Chloronaphthalene



Original Peak Response = 13



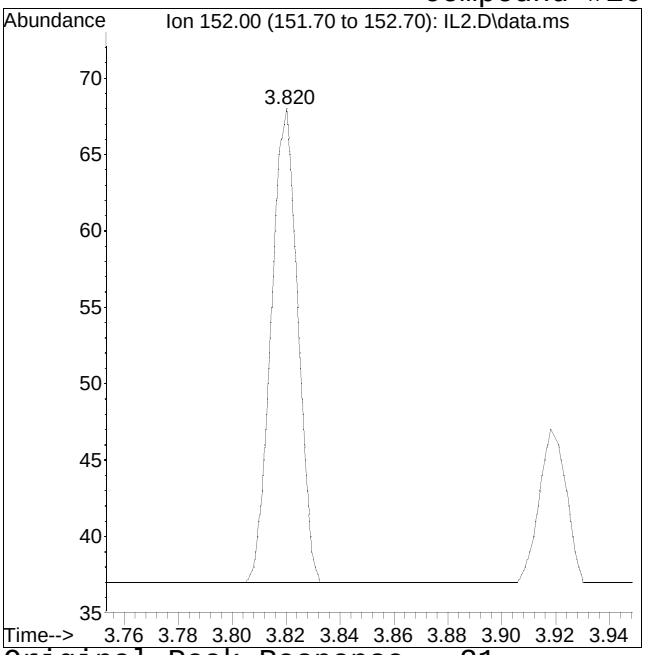
Manual Peak Response = 13 M6

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

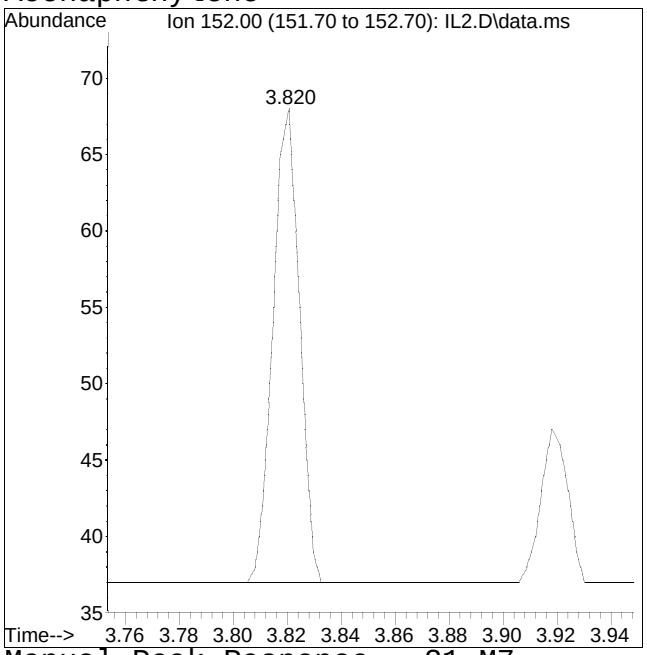
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #16: Acenaphthylene



Original Peak Response = 21



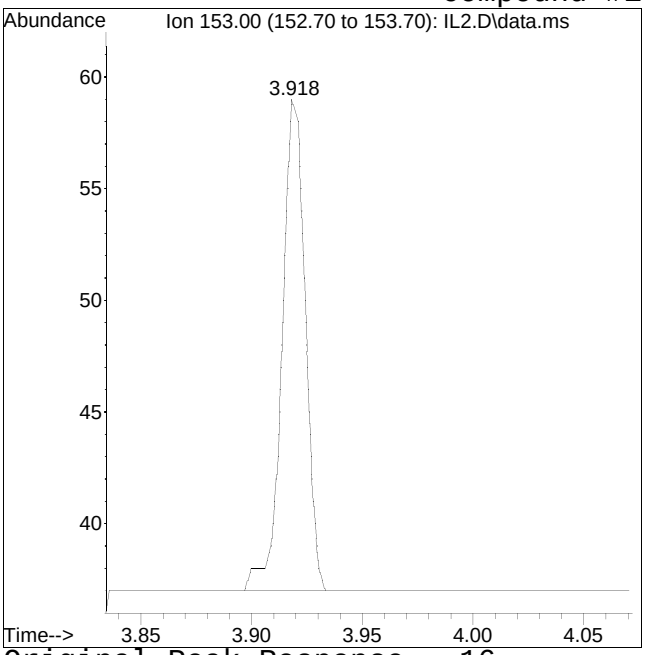
Manual Peak Response = 21 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

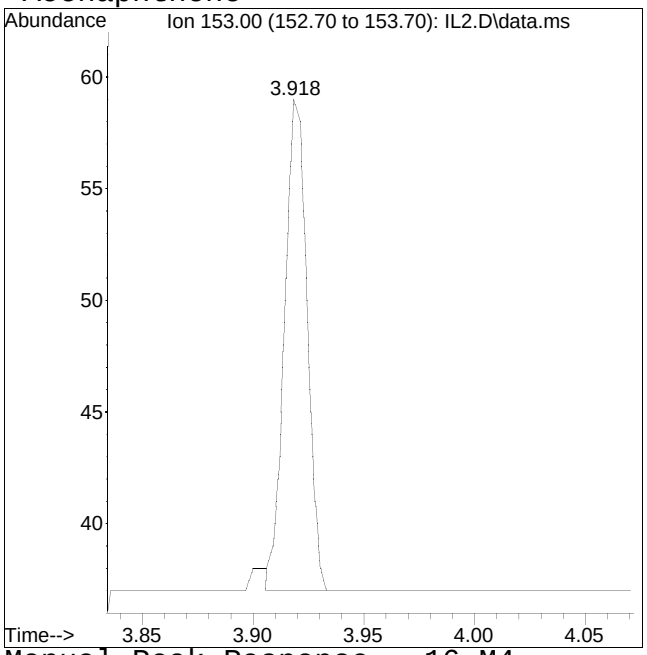
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #18: Acenaphthene



Original Peak Response = 16



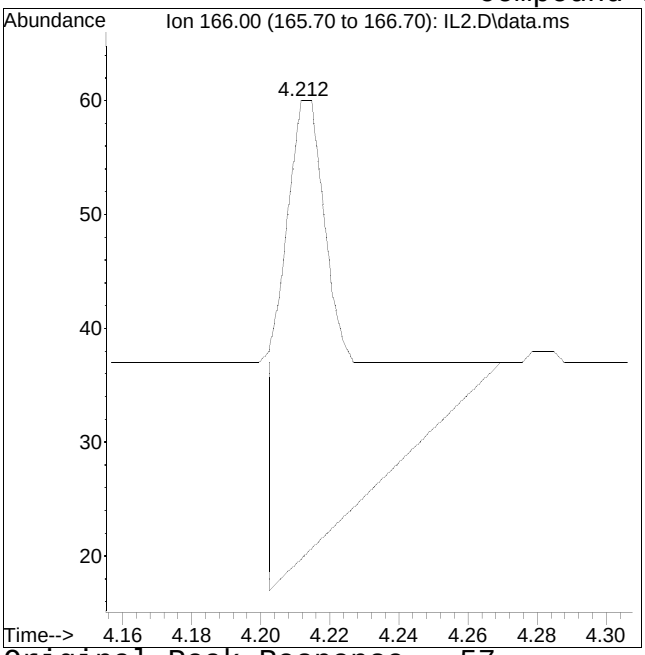
Manual Peak Response = 16 M4

M4 = Poor automated baseline construction.

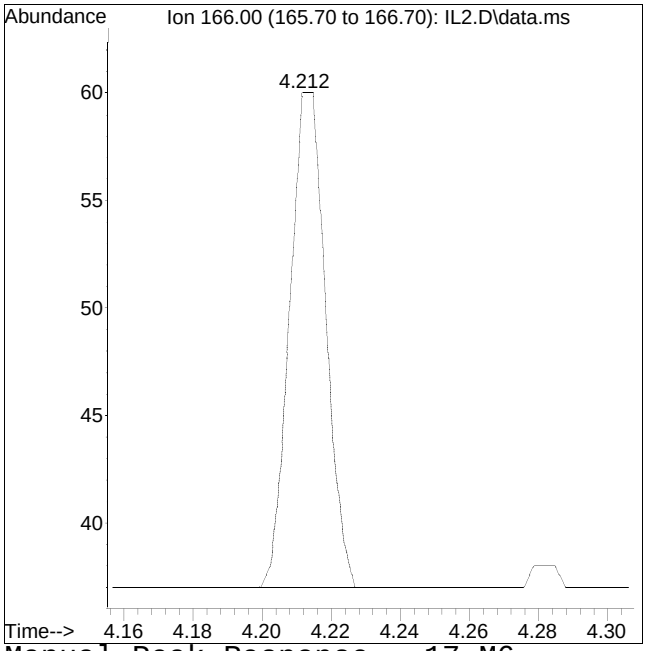
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #20: Fluorene



Original Peak Response = 57



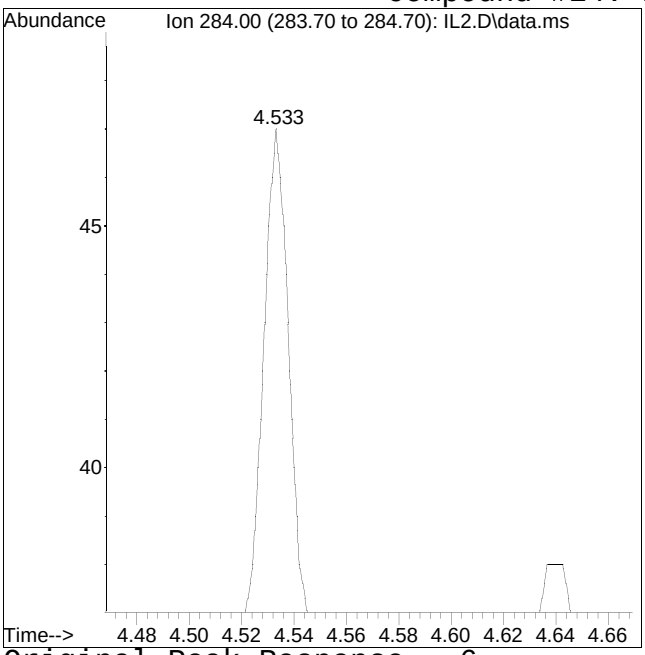
Manual Peak Response = 17 M6

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

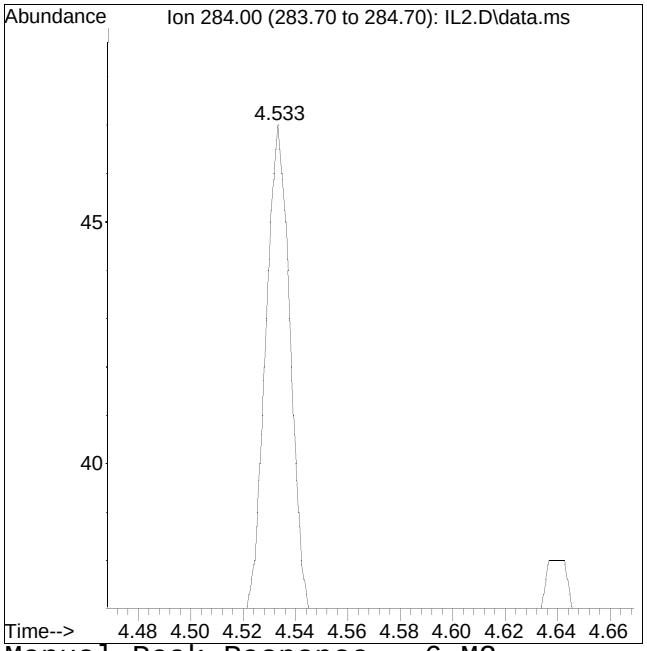
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #24: Hexachlorobenzene



Original Peak Response = 6



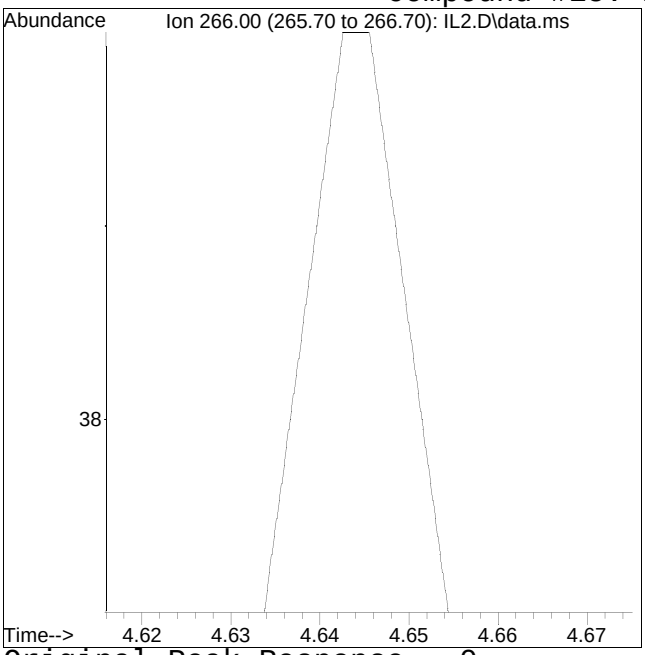
Manual Peak Response = 6 M2

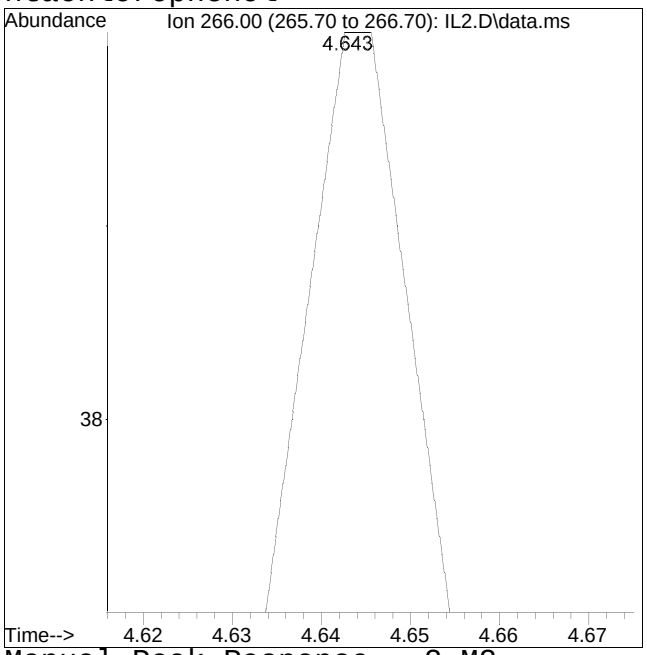
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #25: Pentachlorophenol



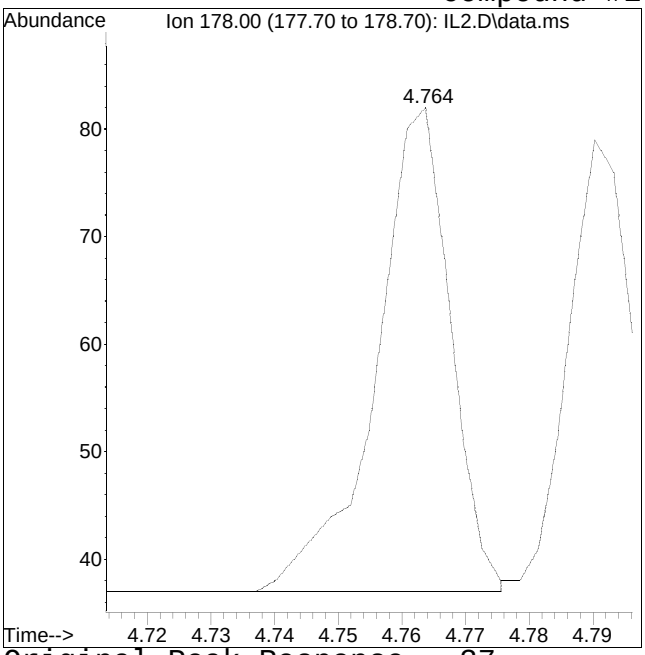


Original Peak Response = 0 Manual Peak Response = 2 M2
M2 = Peak not found by automatic integration algorithm.

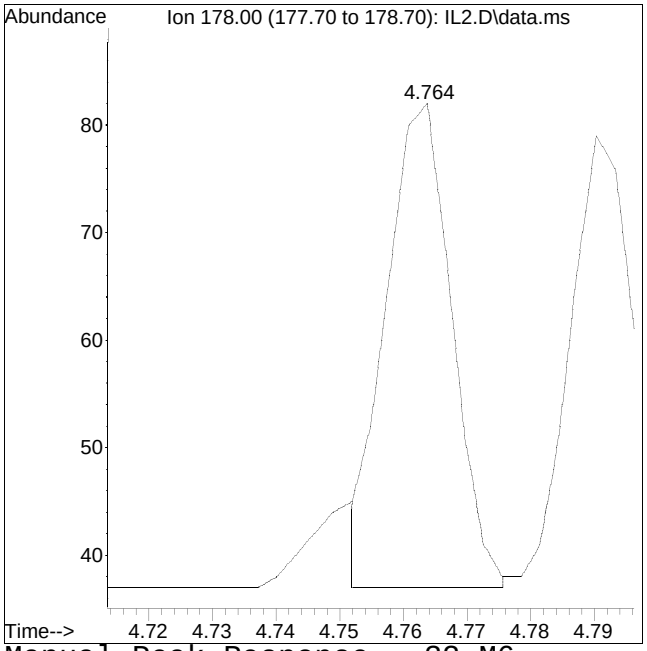
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #26: Phenanthrene



Original Peak Response = 37



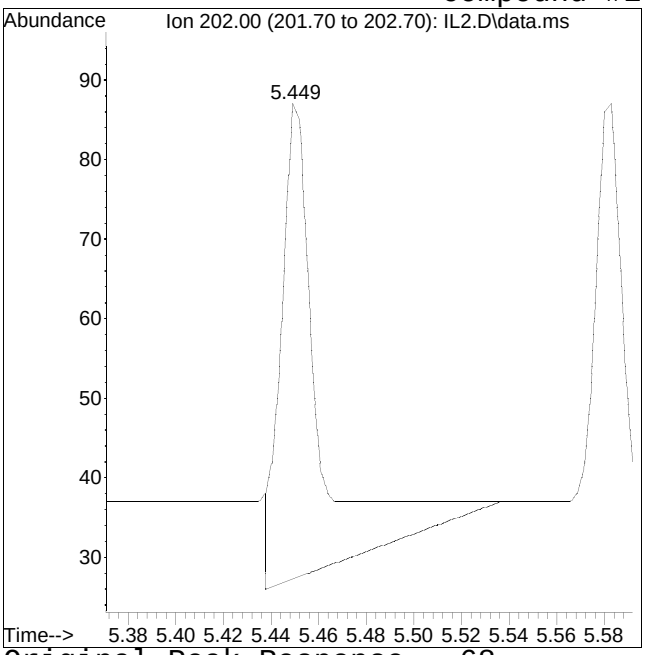
Manual Peak Response = 32 M6

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

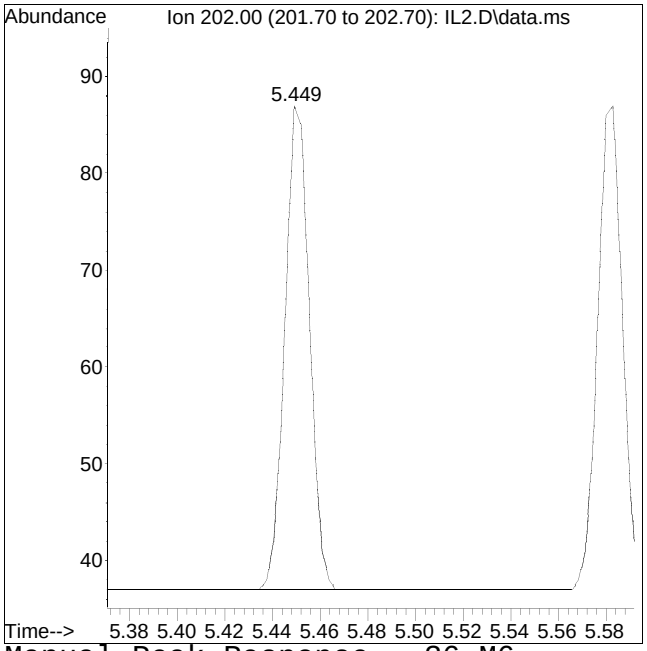
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #28: Fluoranthene



Original Peak Response = 68



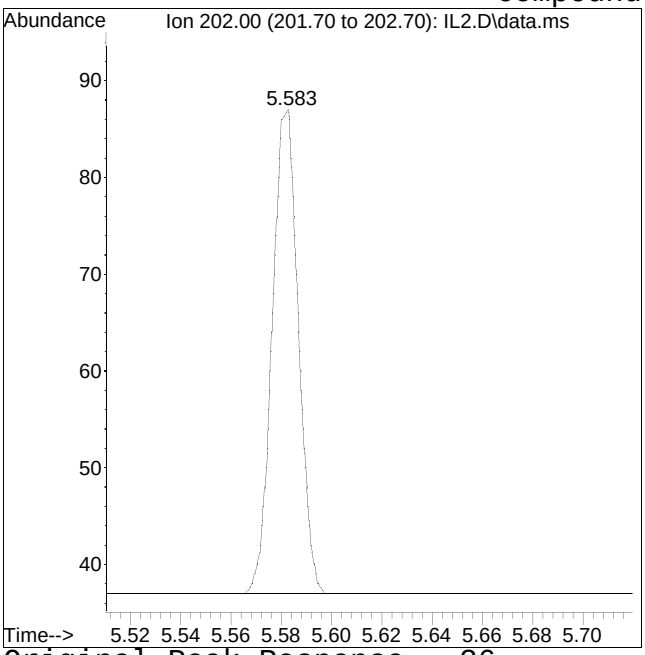
Manual Peak Response = 36 M6

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

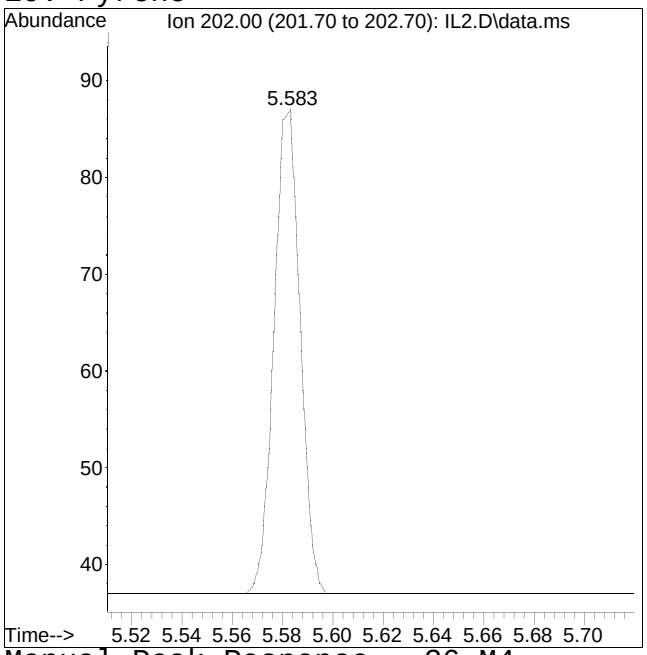
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #29: Pyrene



Original Peak Response = 36



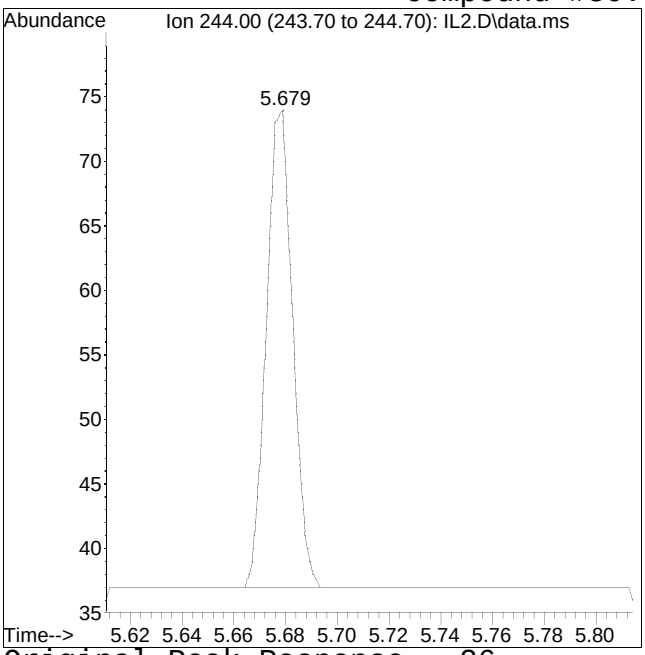
Manual Peak Response = 36 M4

M4 = Poor automated baseline construction.

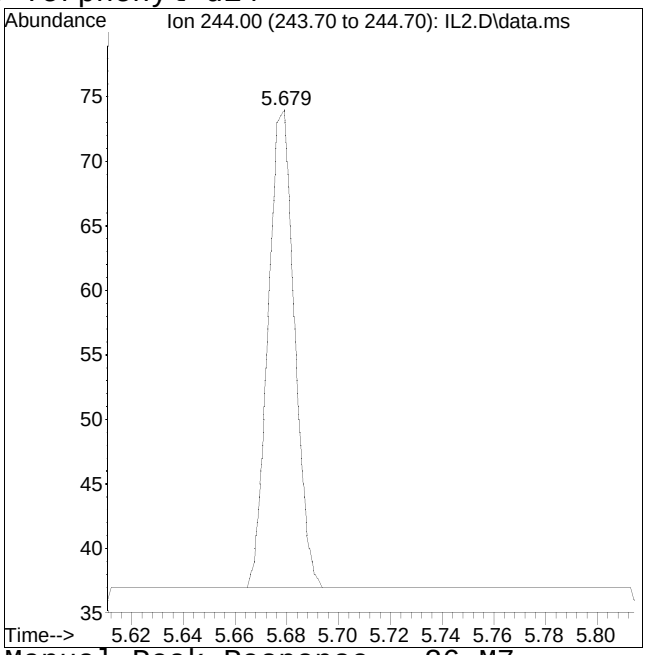
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #30: 4-Terphenyl-d14



Original Peak Response = 26



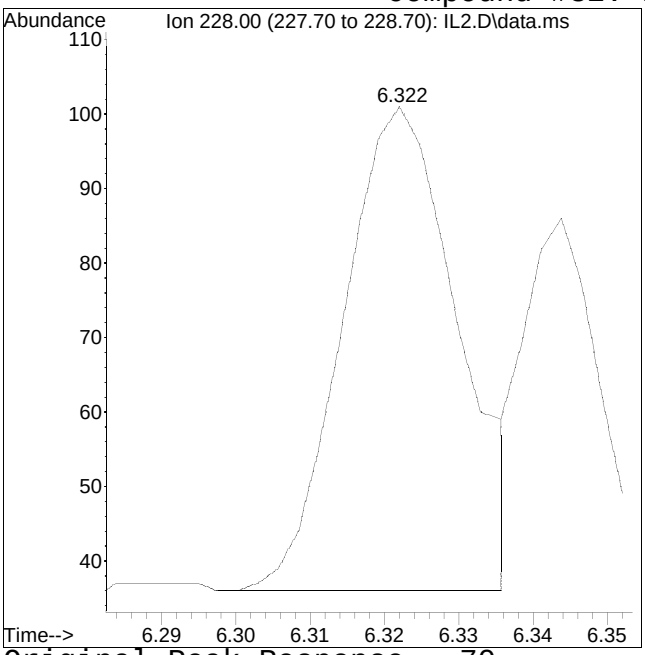
Manual Peak Response = 26 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

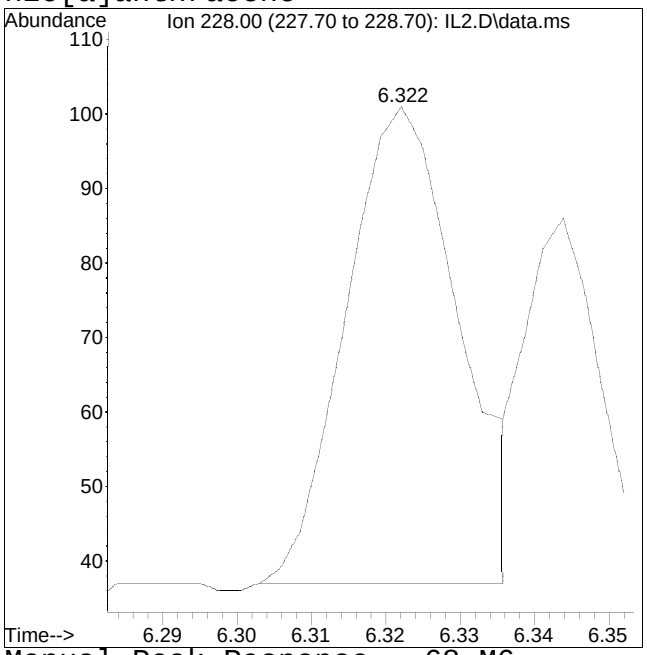
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 70



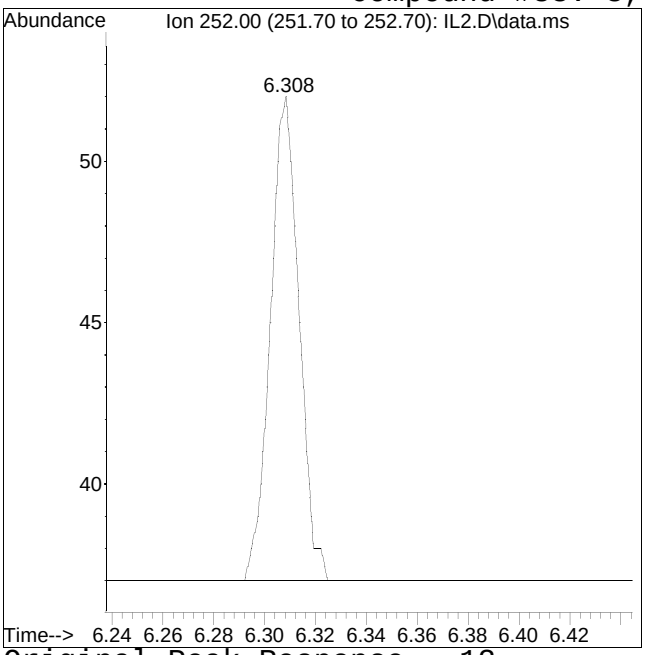
Manual Peak Response = 68 M6

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

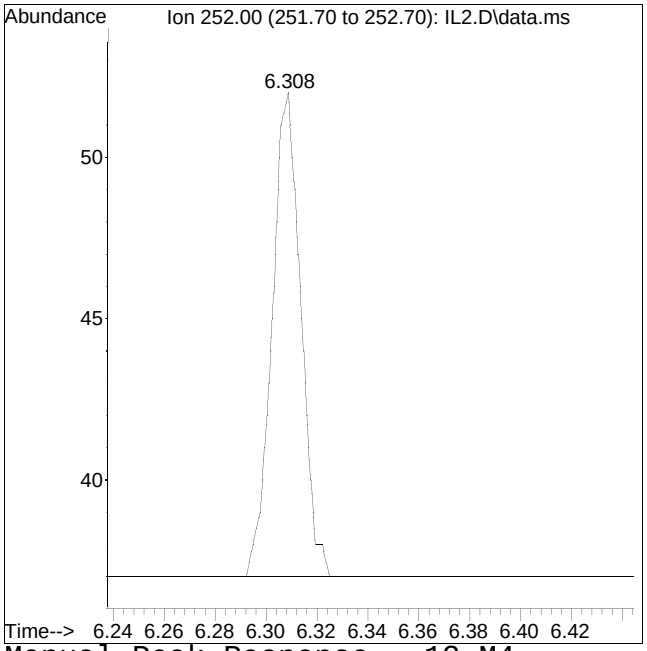
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #33: 3,3'-Dichlorobenzidine



Original Peak Response = 12



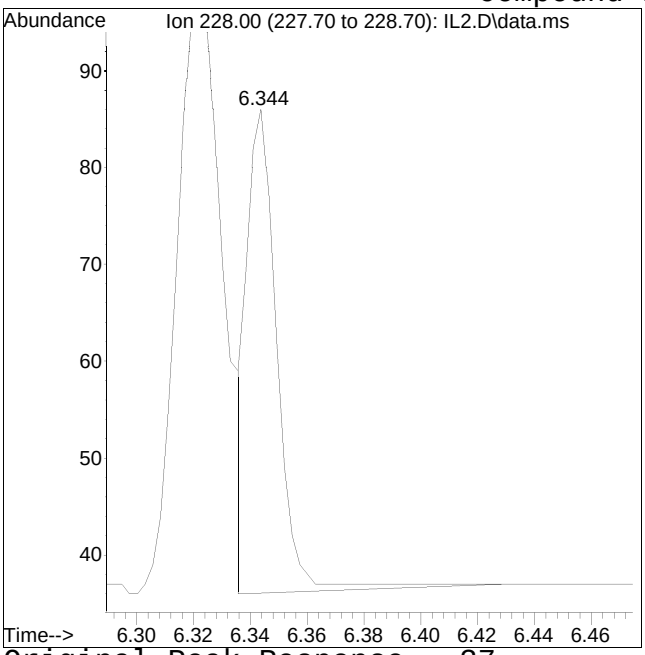
Manual Peak Response = 12 M4

M4 = Poor automated baseline construction.

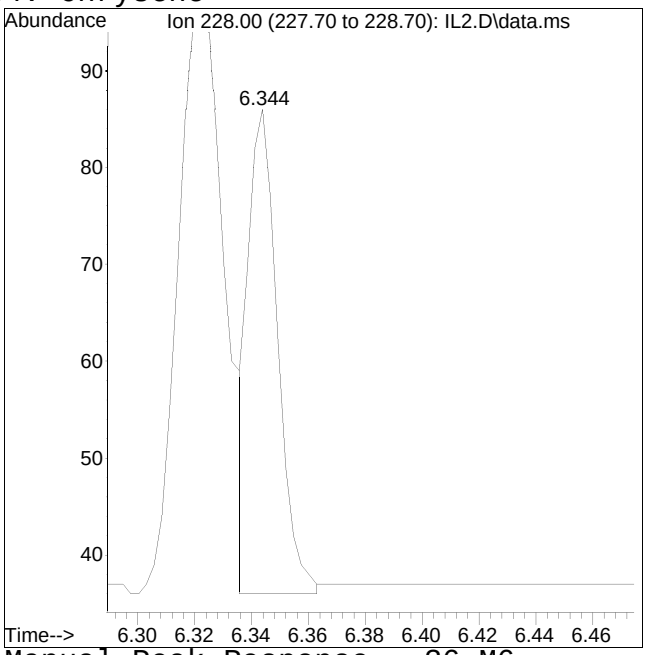
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #34: Chrysene



Original Peak Response = 37



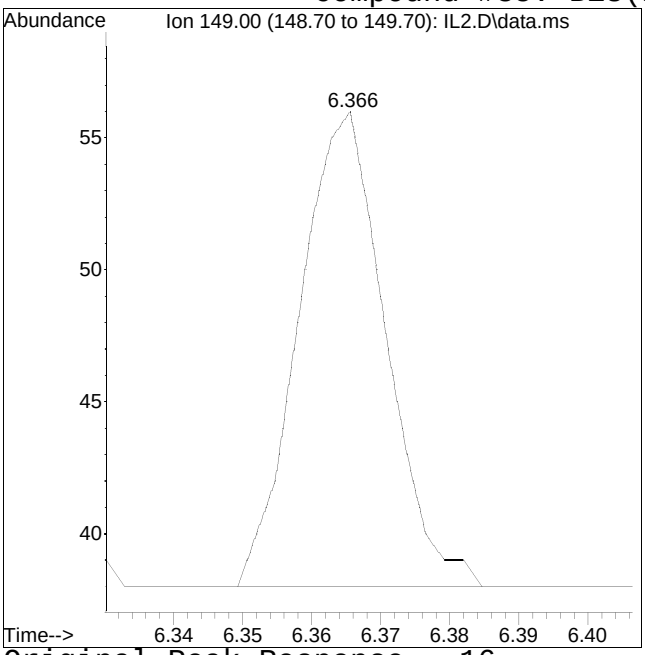
Manual Peak Response = 36 M6

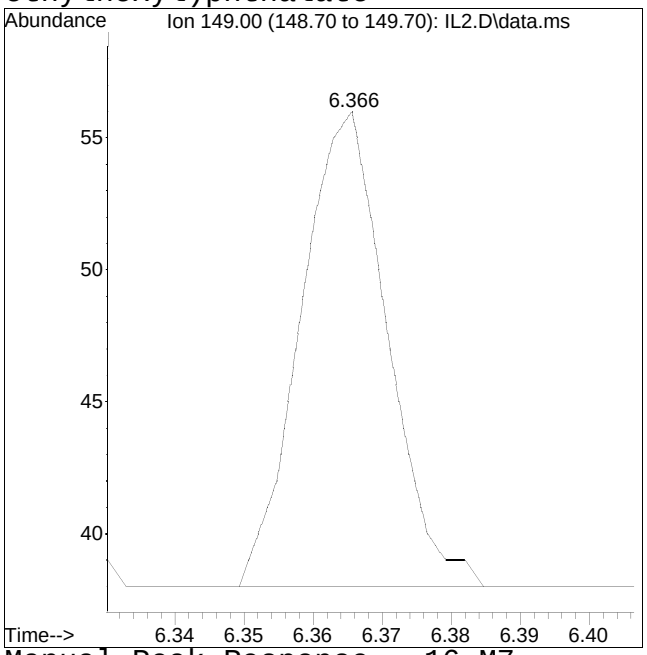
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #35: Bis(2-ethylhexyl)phthalate



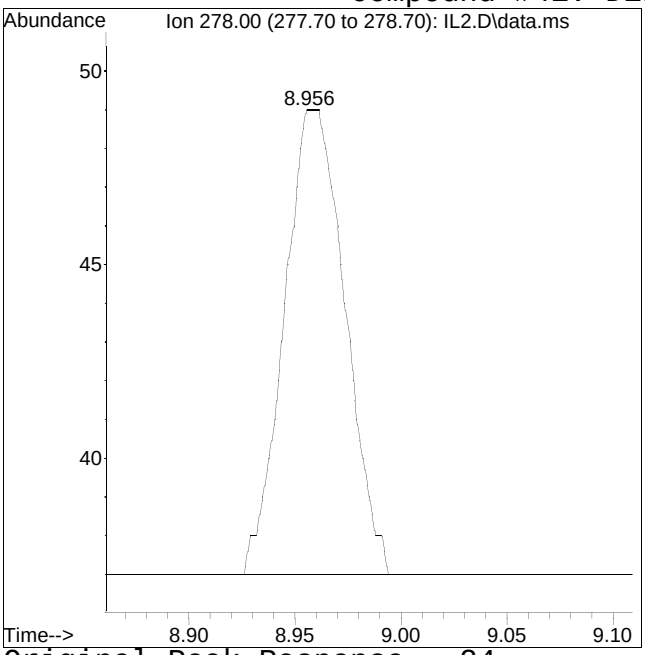


Original Peak Response = 16 Manual Peak Response = 16 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

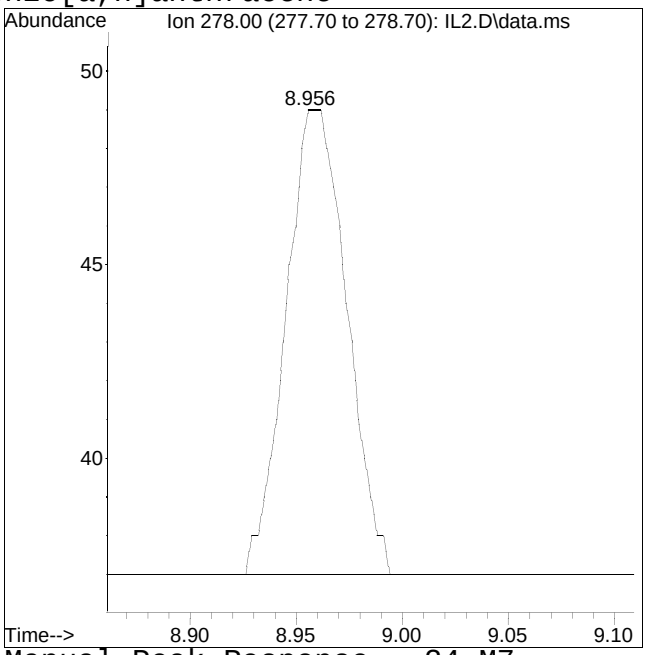
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL2.D Operator : SV128:ah
Date Inj'd : 8/31/2023 11:56 am Instrument : SV128
Sample : IL2,32,, 0.01 Lot#10234 Quant Date : 9/5/2023 11:58 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 24



Manual Peak Response = 24 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL1.D
Acq On : 31 Aug 2023 12:12 pm
Operator : SV128:ah
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1823727,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 12:48:33 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:28 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.258	152	2185	4000.000	ng/ml	0.00
Standard Area 1 = 2292			Recovery = 95.33%			
8) Naphthalene-d8	2.923	136	8297	4000.000	ng/ml	0.00
Standard Area 1 = 8982			Recovery = 92.37%			
17) Acenaphthene-d10	3.901	164	4736	4000.000	ng/ml	0.00
Standard Area 1 = 5319			Recovery = 89.04%			
22) Phenanthrene-d10	4.750	188	11512	4000.000	ng/ml	0.00
Standard Area 1 = 12548			Recovery = 91.74%			
31) Chrysene-d12	6.326	240	11008	4000.000	ng/ml	0.00
Standard Area 1 = 11983			Recovery = 91.86%			
36) Perylene-d12	7.607	264	12106	4000.000	ng/ml	0.00
Standard Area 1 = 13430			Recovery = 90.14%			
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.000	ng/ml	
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.00%#			
3) Phenol-d6	0.000	99	0	0.000	ng/ml	
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.00%#			
7) Nitrobenzene-d5	2.539	82	3M2	5.180	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.21%#			
13) 2-Fluorobiphenyl	3.522	172	8M7	4.701	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.19%#			
21) 2,4,6-Tribromophenol	4.350	330	0M4	0.000	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.00%#			
30) 4-Terphenyl-d14	5.677	244	15M6	6.166	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.25%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.120	93	3M2	5.096	ng/ml	
5) n-nitrosodi-n-propylamine	0.000		0	N.D.		
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.933	128	11M7	5.426	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.	d	
11) 2-Methylnaphthalene	3.315	142	7	5.173	ng/ml	92
12) 1-Methylnaphthalene	3.369	142	6M2	4.786	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL1.D
Acq On : 31 Aug 2023 12:12 pm
Operator : SV128:ah
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1823727,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 12:48:33 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:28 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
14) 2-Chloronaphthalene	3.586	162	6M7	4.277	ng/ml	
15) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
16) Acenaphthylene	3.819	152	11M4	4.924	ng/ml	
18) Acenaphthene	3.919	153	8M6	5.331	ng/ml	
19) 2,4-Dinitrotoluene	0.000		0	N.D.		
20) Fluorene	4.213	166	8M6	4.886	ng/ml	
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.534	284	3M2	4.853	ng/ml	
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.762	178	17M6	5.923	ng/ml	
27) Anthracene	4.791	178	16M7	5.728	ng/ml	
28) Fluoranthene	0.000		0	N.D.	d	
29) Pyrene	5.581	202	20	5.795	ng/ml	92
32) Benzo[a]anthracene	6.324	228	51M4	7.239	ng/ml	
33) 3,3'-Dichlorobenzidine	6.307	252	6M7	4.370	ng/ml	
34) Chrysene	6.343	228	20M6	5.889	ng/ml	
35) Bis(2-ethylhexyl)phtha...	6.364	149	9M6	4.198	ng/ml	
37) Benzo[b]fluoranthene	0.000		0	N.D.	d	
38) Benzo[k]fluoranthene	0.000		0	N.D.	d	
39) Benzo[a]pyrene	7.541	252	14M7	4.779	ng/ml	
40) Indeno[1,2,3-cd]pyrene	8.908	276	12M6	4.093	ng/ml	
41) Dibenzo[a,h]anthracene	8.958	278	11M6	3.898	ng/ml	
42) Benzo[g,h,i]perylene	9.274	276	12M4	3.987	ng/ml	

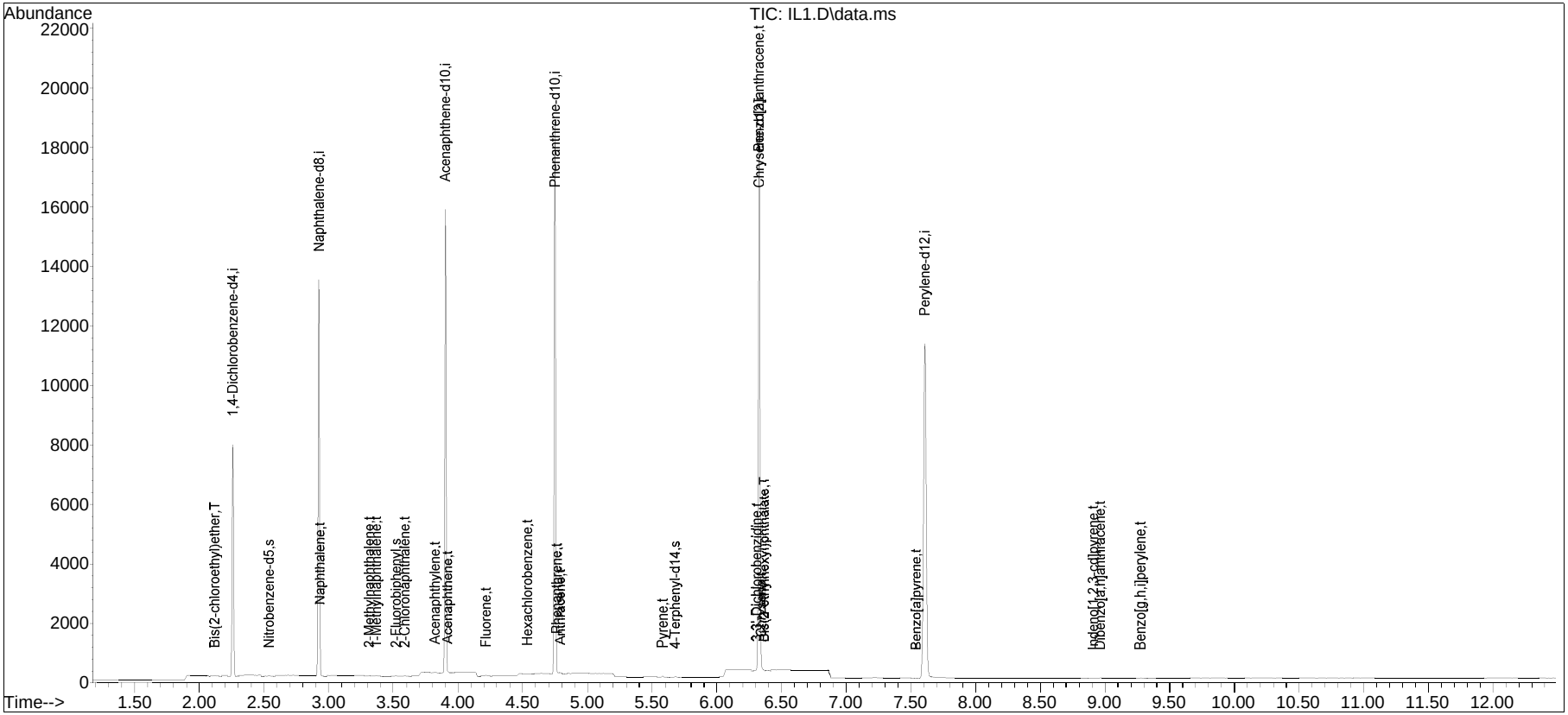
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL1.D
Acq On : 31 Aug 2023 12:12 pm
Operator : SV128:ah
Sample : IL1,32,, 0.005 Lot#10235
Misc : WG1823727,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 05 12:48:33 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:28 2023
Response via : Initial Calibration

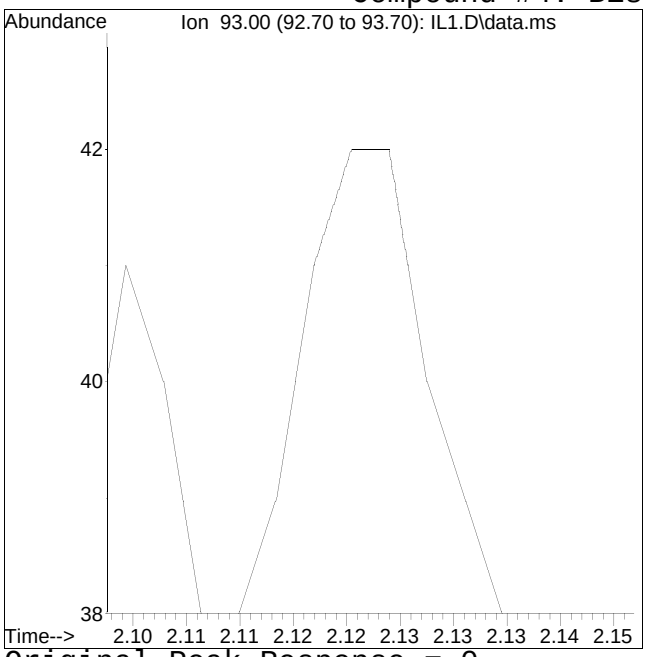
Sub List : Default - All compounds listedIical\IL7.D•



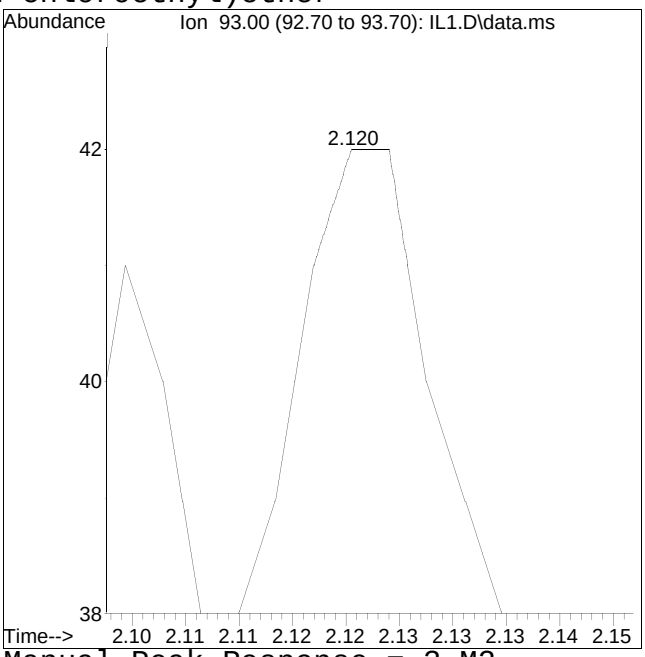
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQ
Data File : IL1.D
Date Inj'd : 8/31/2023 12:12 pm
Sample : IL1,32,, 0.005 Lot#10235
Method : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 9/5/2023 11:58 am

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 0



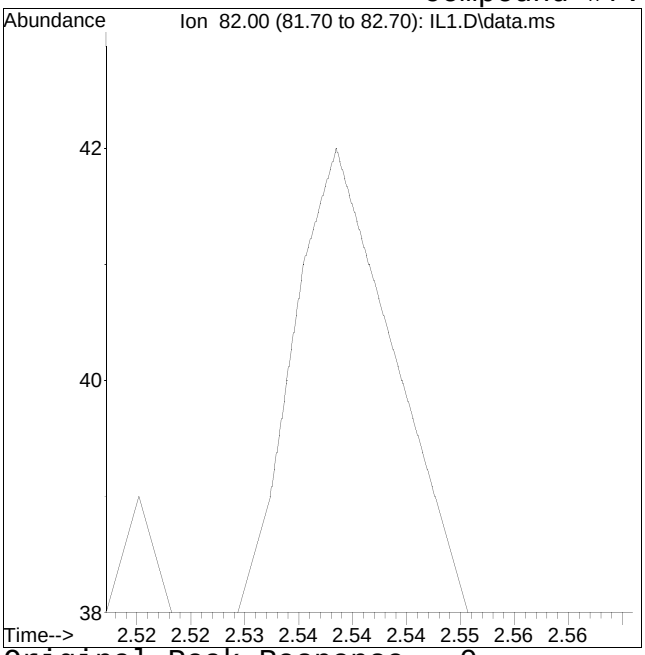
Manual Peak Response = 3 M2

M2 = Peak not found by automatic integration algorithm.

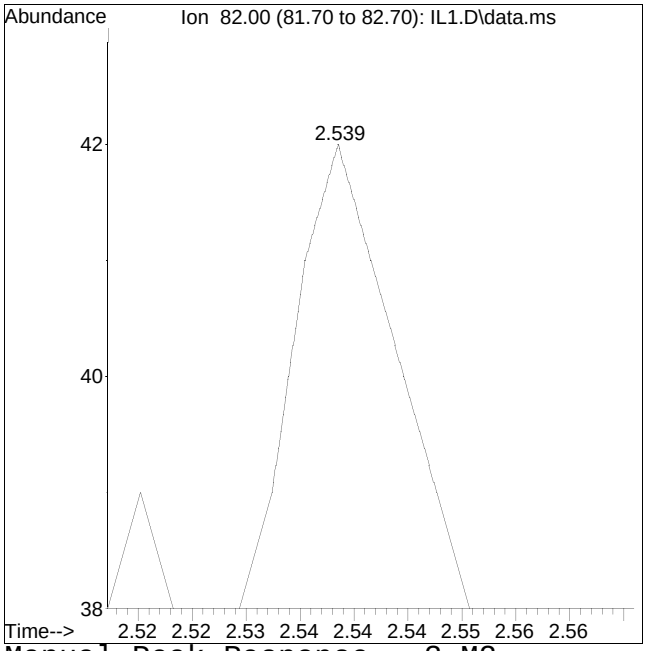
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #7: Nitrobenzene-d5



Original Peak Response = 0



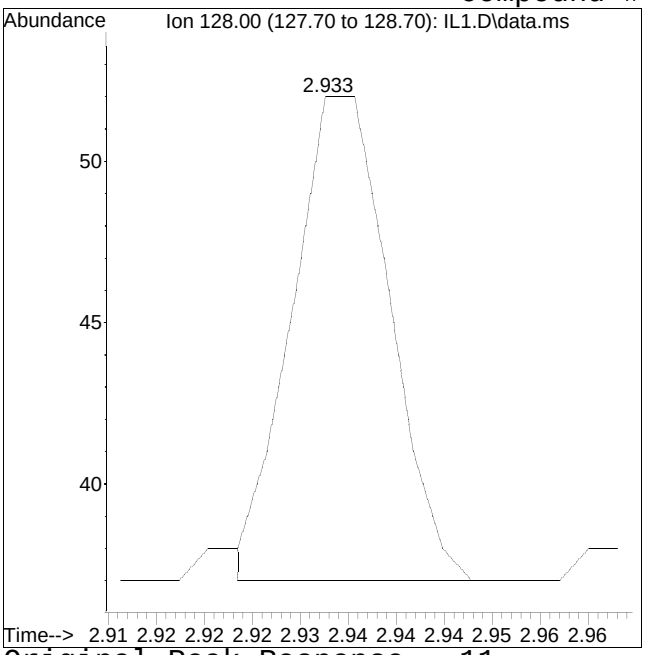
Manual Peak Response = 3 M2

M2 = Peak not found by automatic integration algorithm.

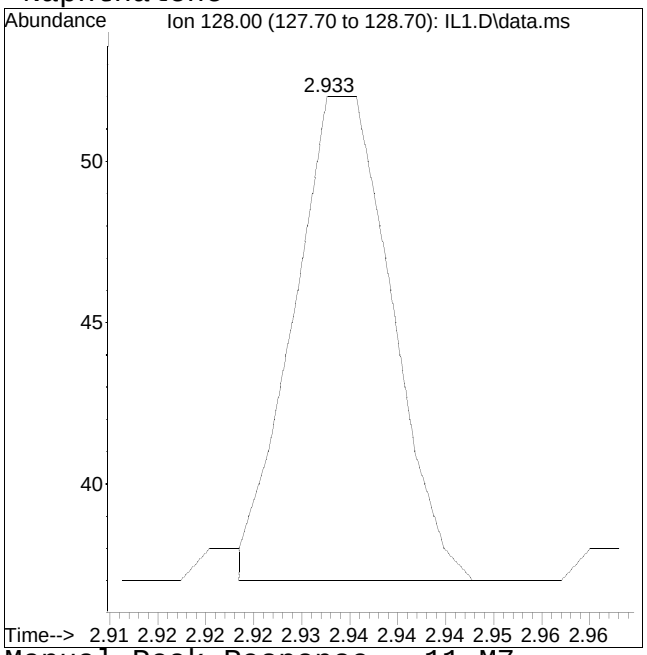
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #9: Naphthalene



Original Peak Response = 11



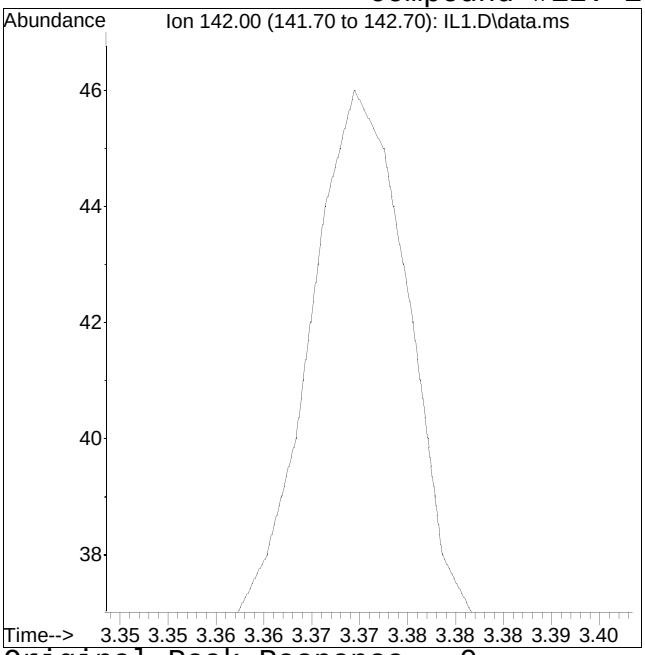
Manual Peak Response = 11 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

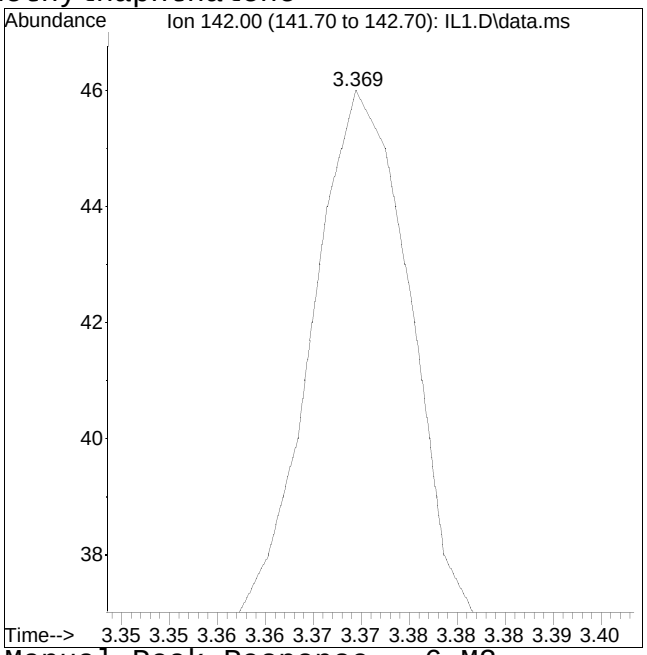
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #12: 1-Methylnaphthalene



Original Peak Response = 0



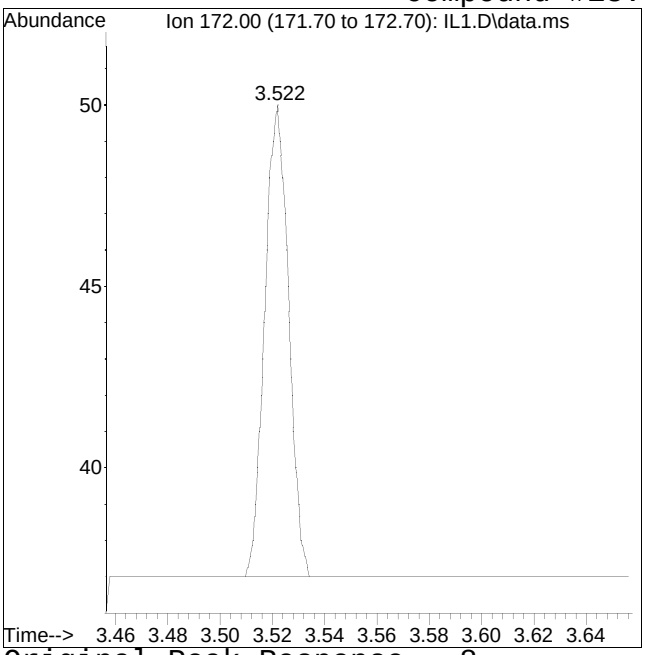
Manual Peak Response = 6 M2

M2 = Peak not found by automatic integration algorithm.

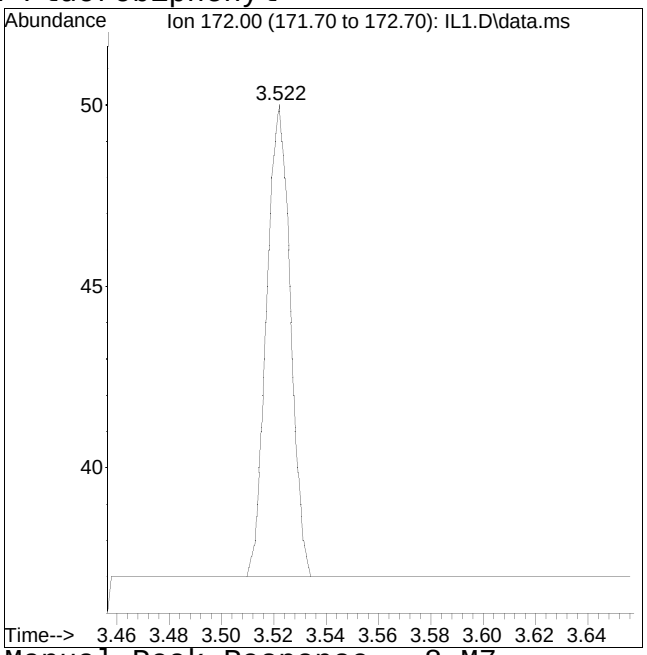
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #13: 2-Fluorobiphenyl



Original Peak Response = 8



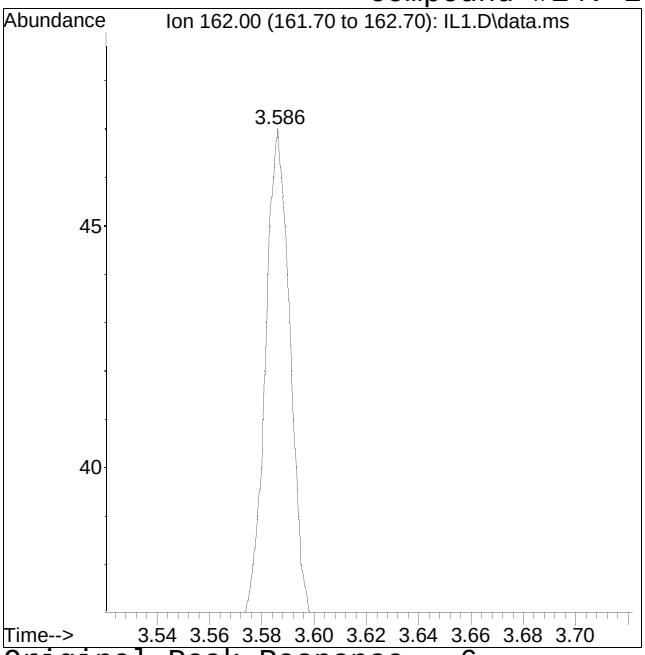
Manual Peak Response = 8 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

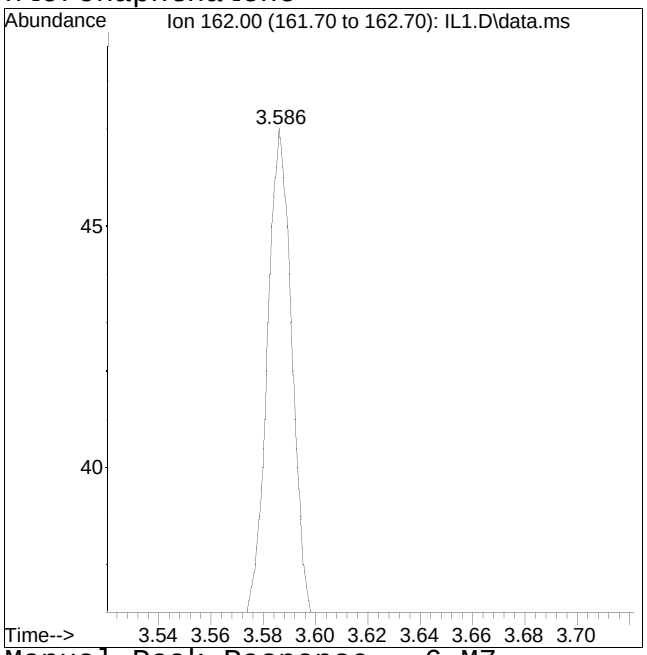
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #14: 2-Chloronaphthalene



Original Peak Response = 6



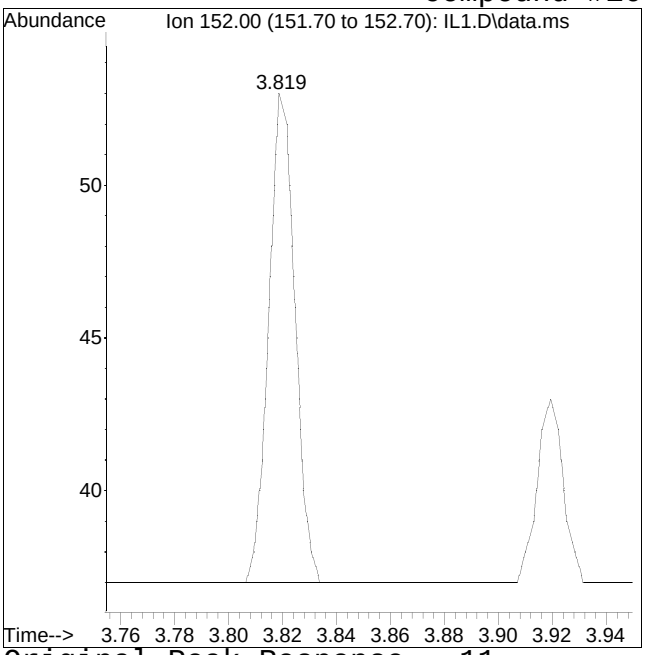
Manual Peak Response = 6 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

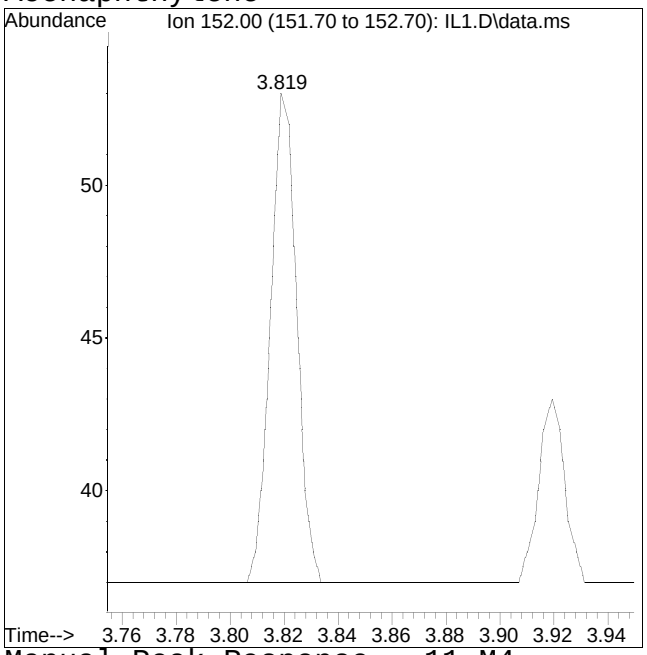
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #16: Acenaphthylene



Original Peak Response = 11



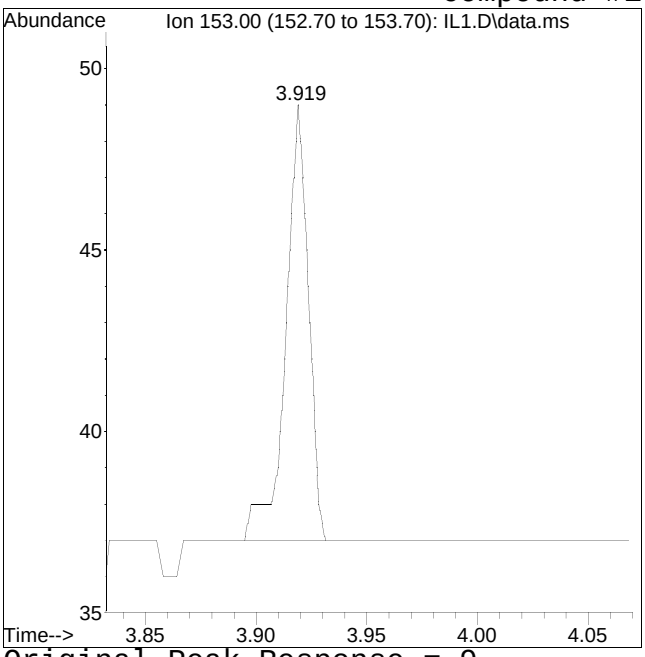
Manual Peak Response = 11 M4

M4 = Poor automated baseline construction.

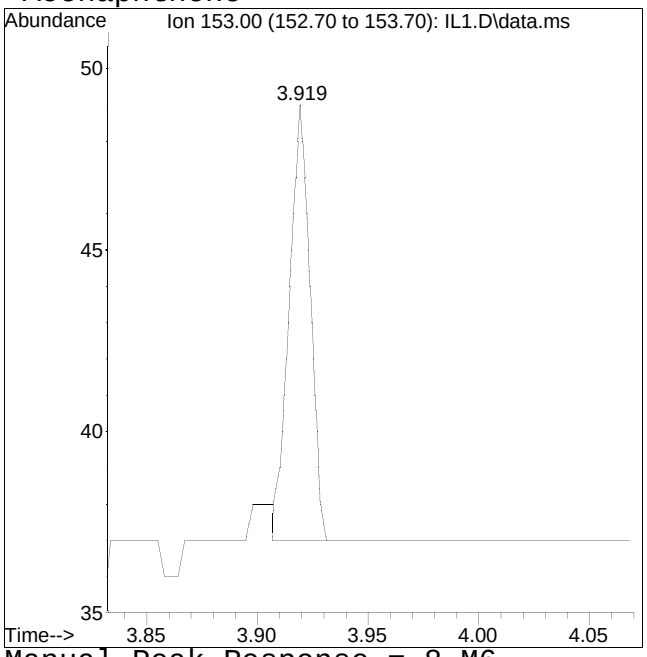
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #18: Acenaphthene



Original Peak Response = 9



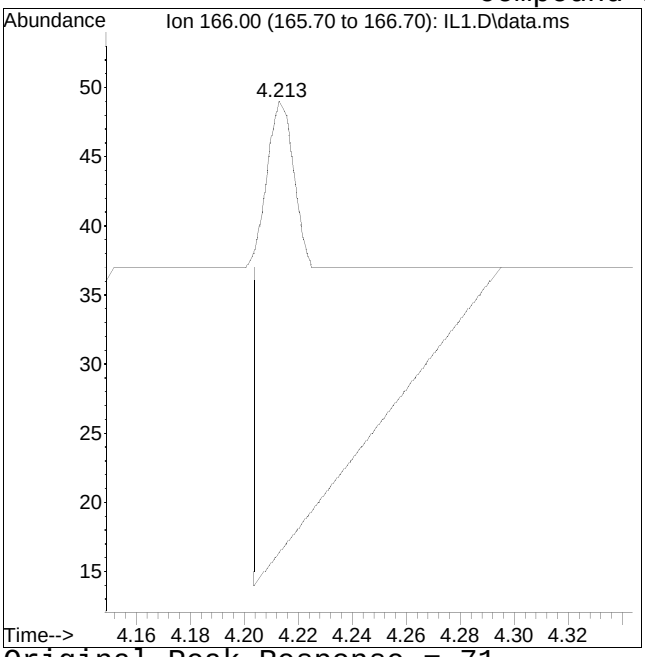
Manual Peak Response = 8 M6

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

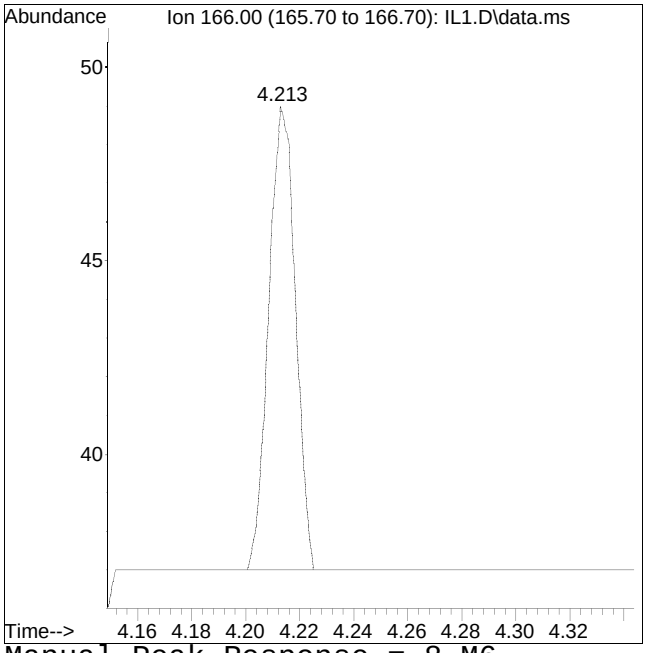
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #20: Fluorene



Original Peak Response = 71



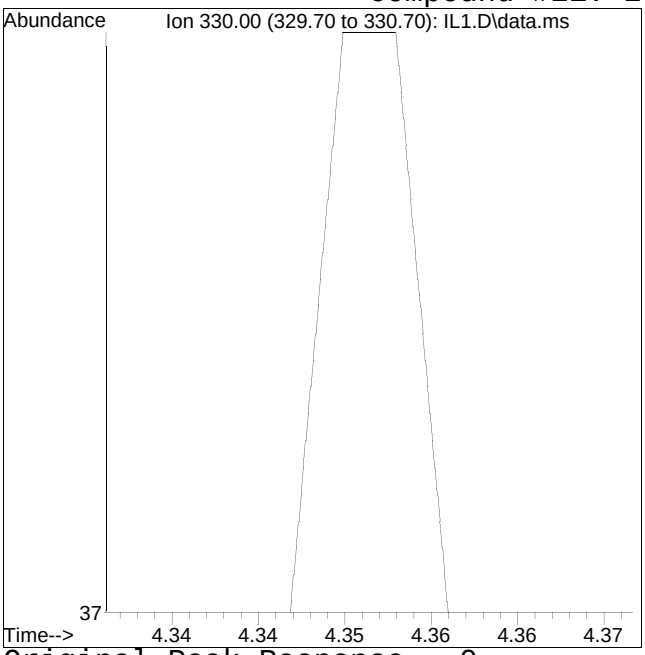
Manual Peak Response = 8 M6

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

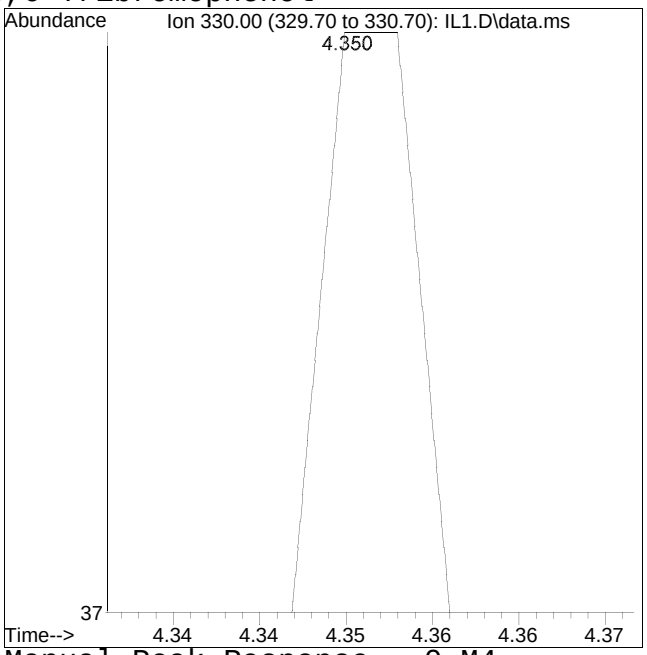
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 0



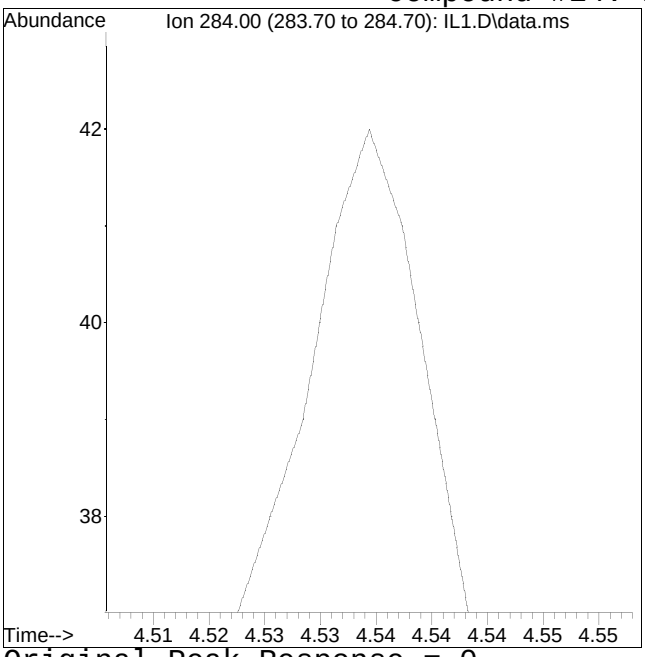
Manual Peak Response = 0 M4

M4 = Poor automated baseline construction.

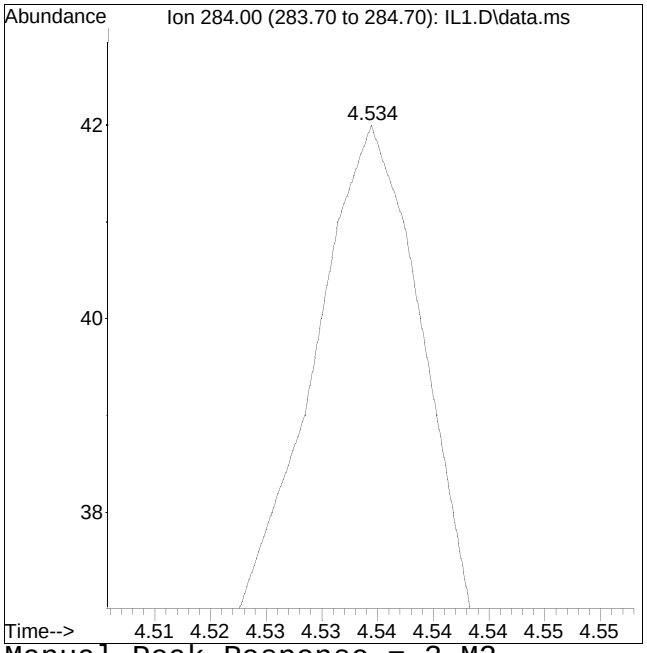
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #24: Hexachlorobenzene



Original Peak Response = 0



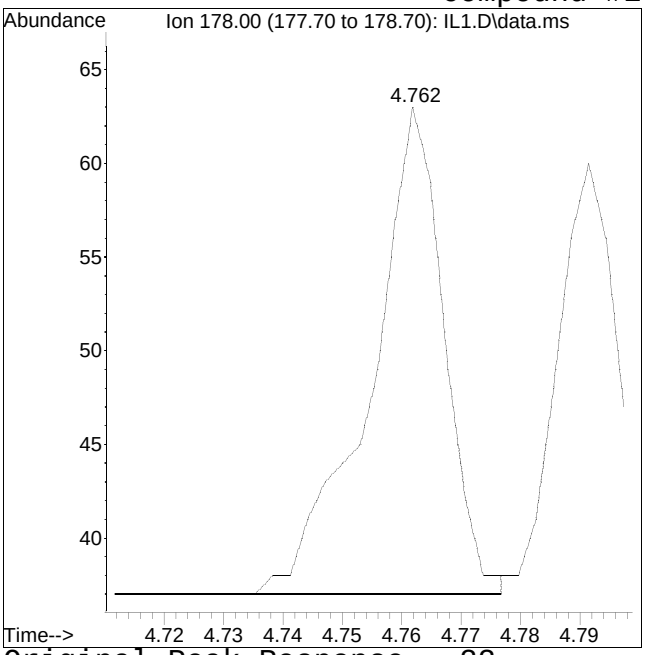
Manual Peak Response = 3 M2

M2 = Peak not found by automatic integration algorithm.

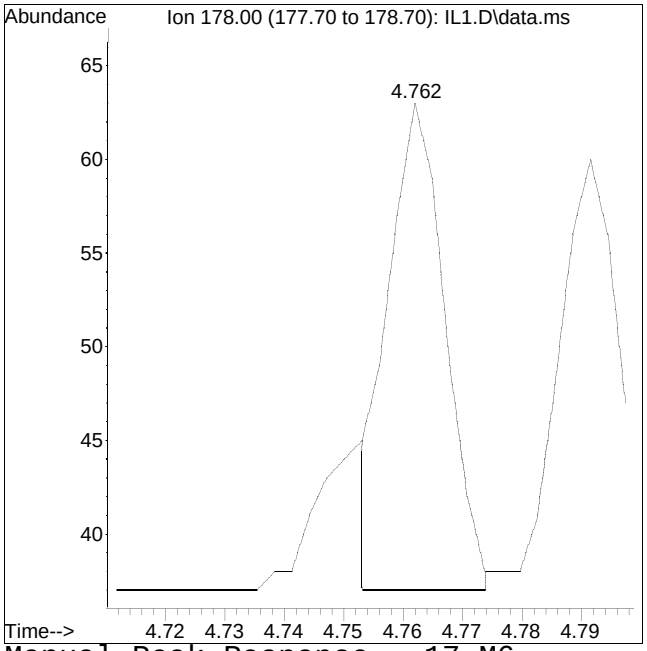
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQ
Data File : IL1.D
Date Inj'd : 8/31/2023 12:12 pm
Sample : IL1,32,, 0.005 Lot#10235
Method : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 9/5/2023 11:58 am

Compound #26: Phenanthrene



Original Peak Response = 22



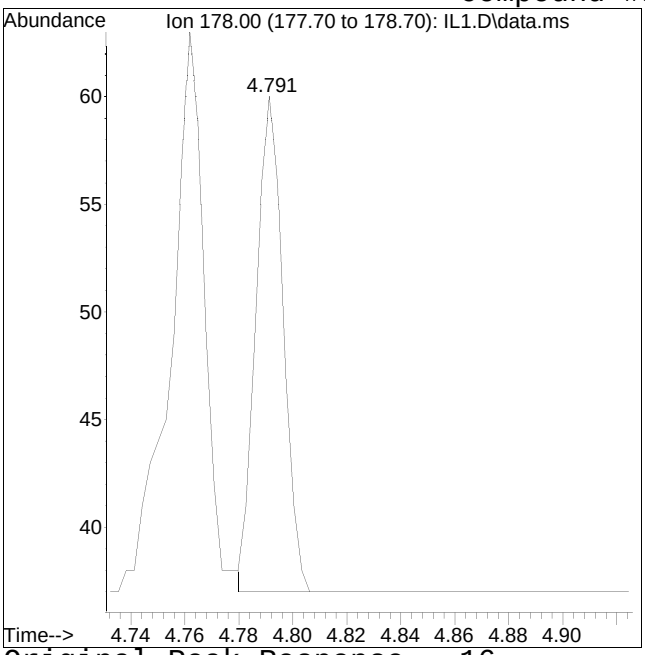
Manual Peak Response = 17 M6

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

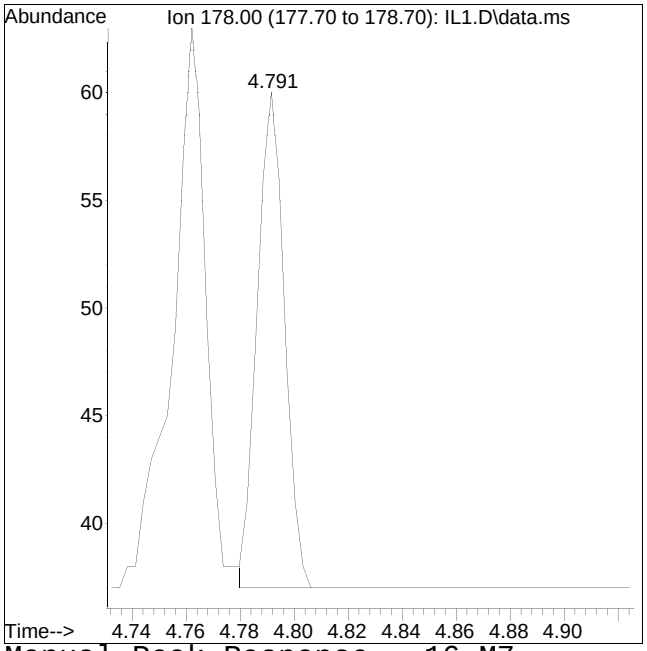
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #27: Anthracene



Original Peak Response = 16



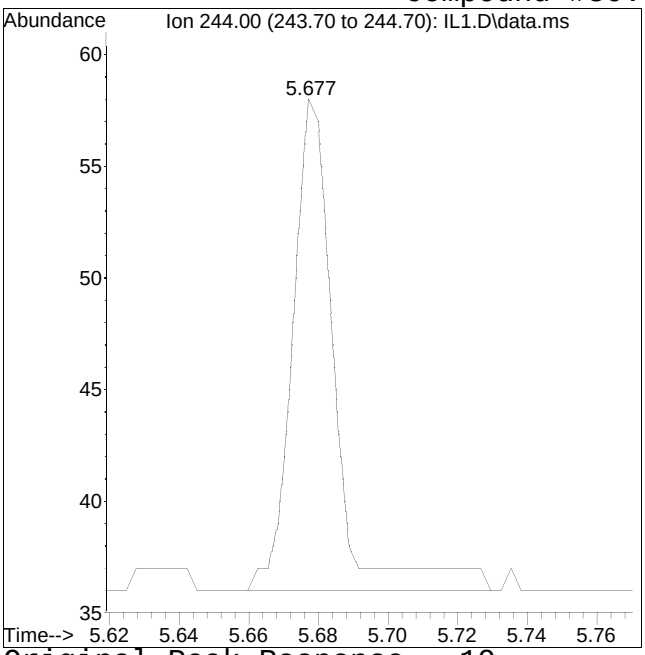
Manual Peak Response = 16 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

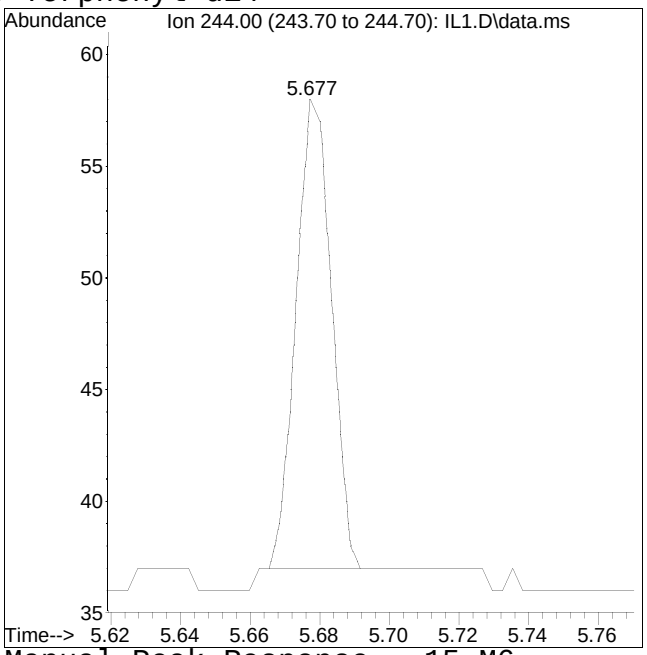
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #30: 4-Terphenyl-d14



Original Peak Response = 19



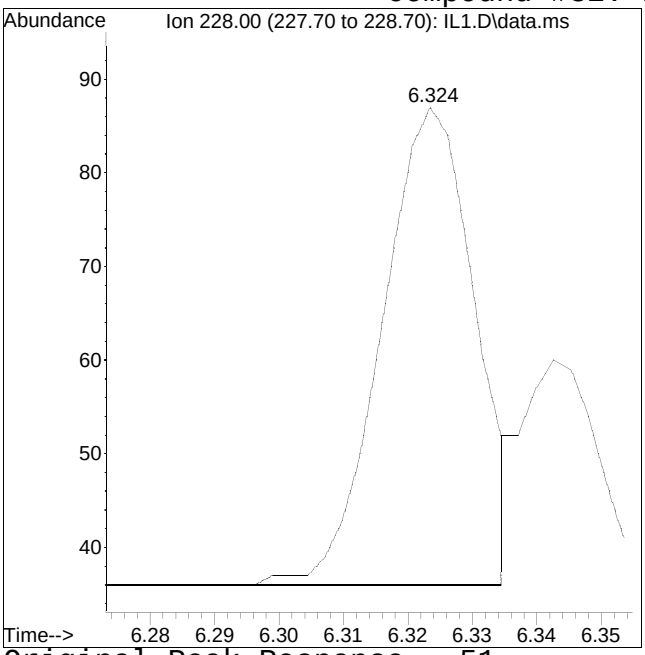
Manual Peak Response = 15 M6

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

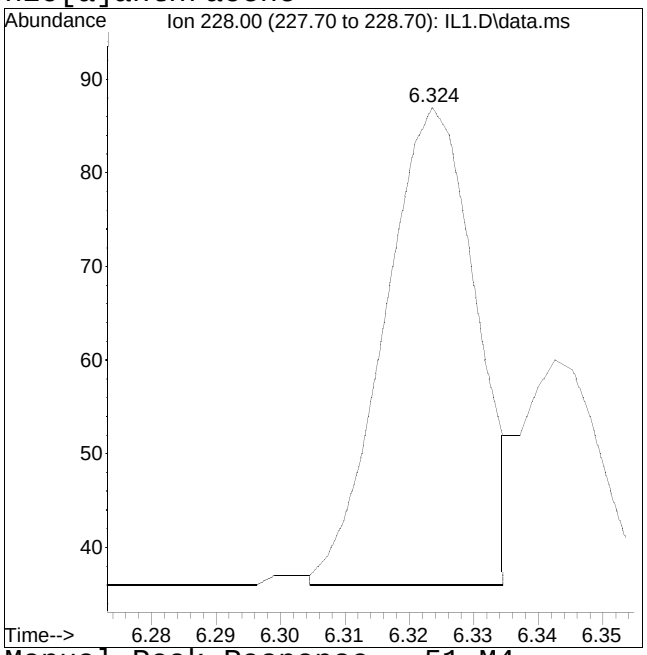
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #32: Benzo[a]anthracene



Original Peak Response = 51



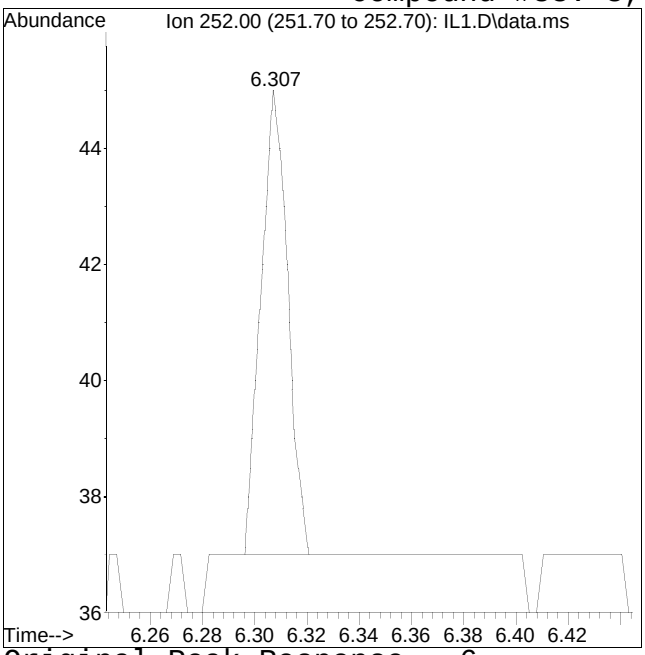
Manual Peak Response = 51 M4

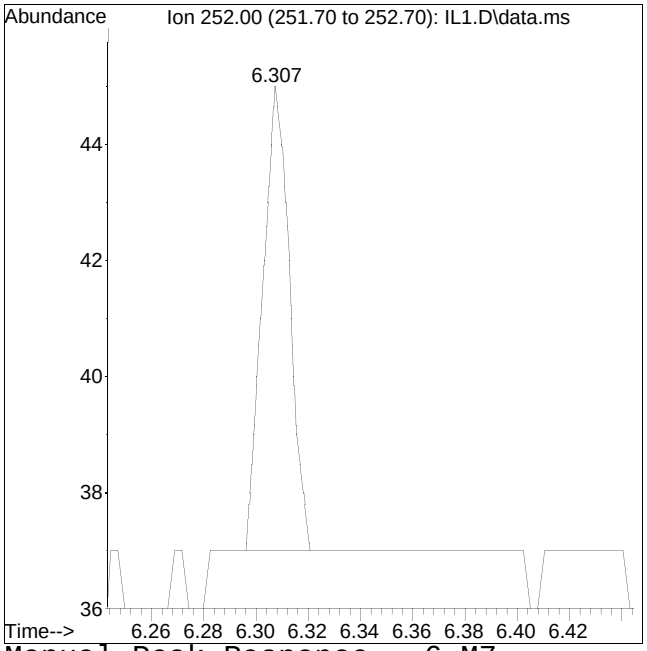
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #33: 3,3'-Dichlorobenzidine



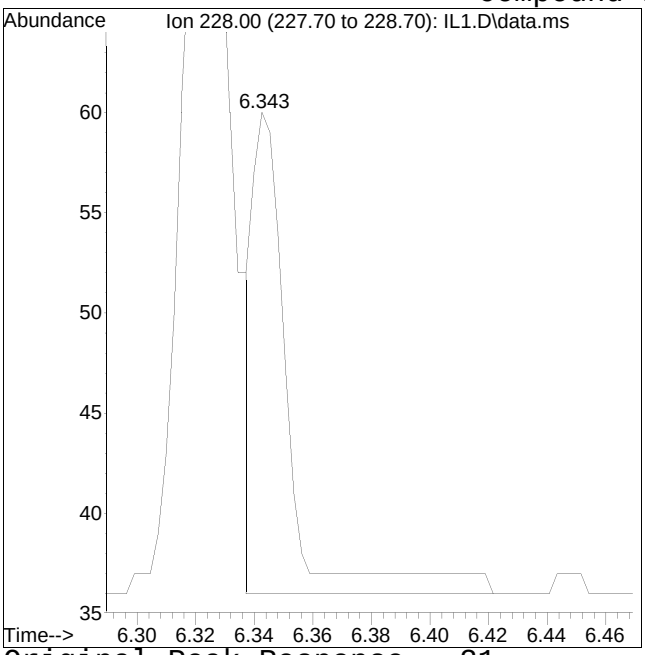


Original Peak Response = 6 Manual Peak Response = 6 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

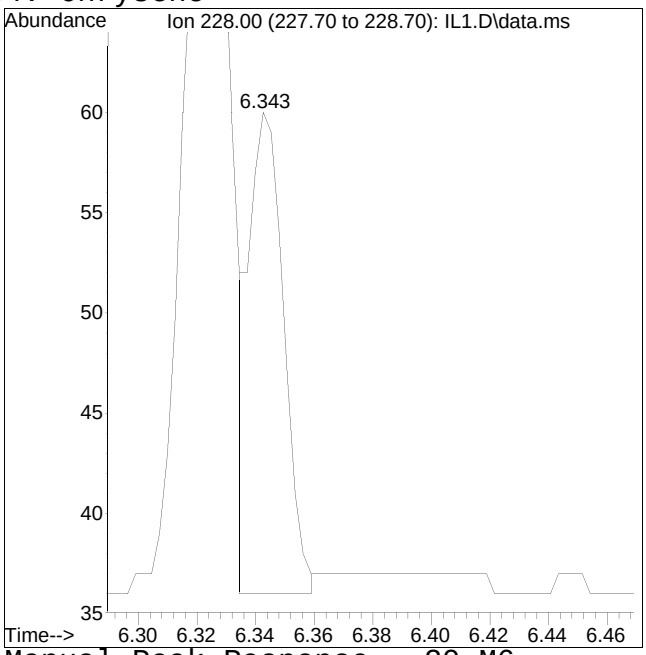
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #34: Chrysene



Original Peak Response = 21



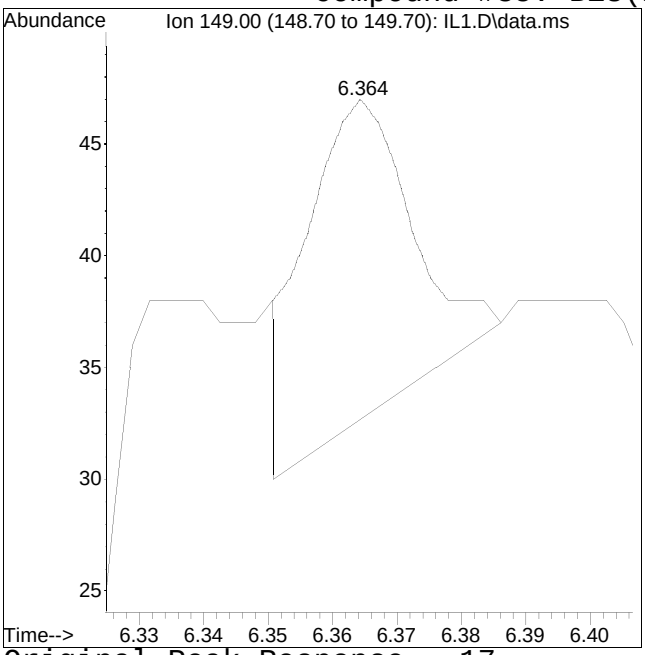
Manual Peak Response = 20 M6

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

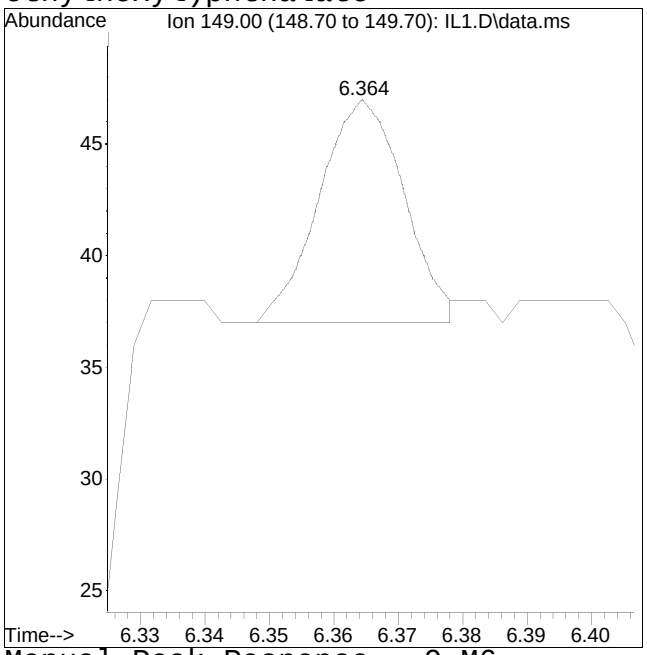
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #35: Bis(2-ethylhexyl)phthalate



Original Peak Response = 17



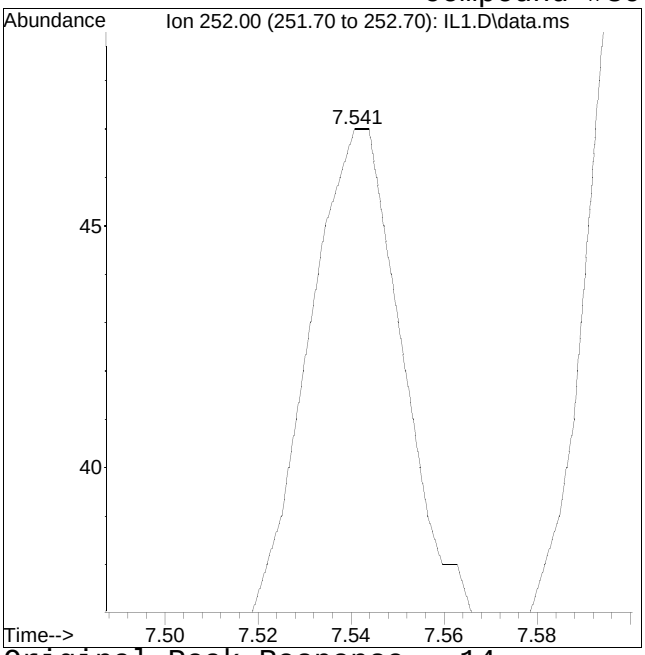
Manual Peak Response = 9 M6

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

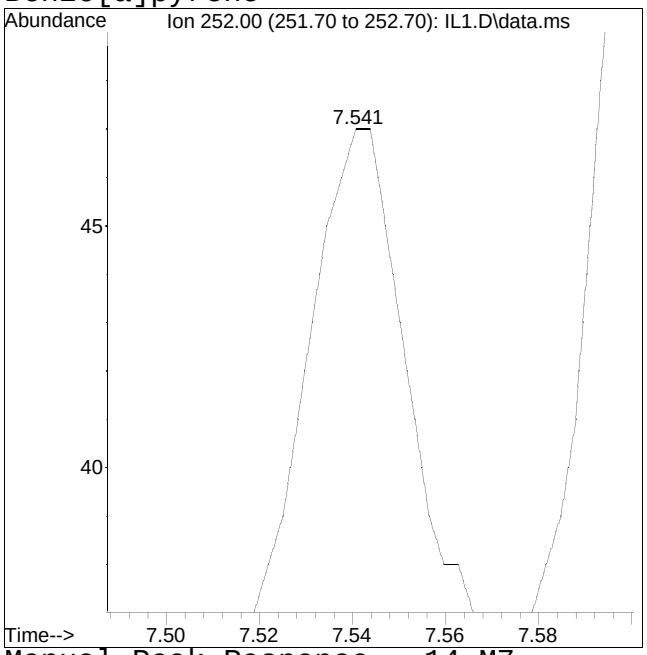
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #39: Benzo[a]pyrene



Original Peak Response = 14



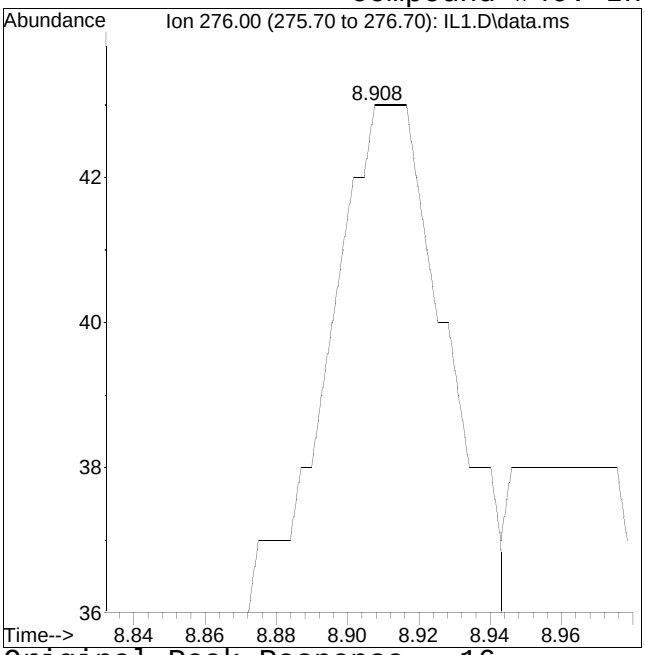
Manual Peak Response = 14 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

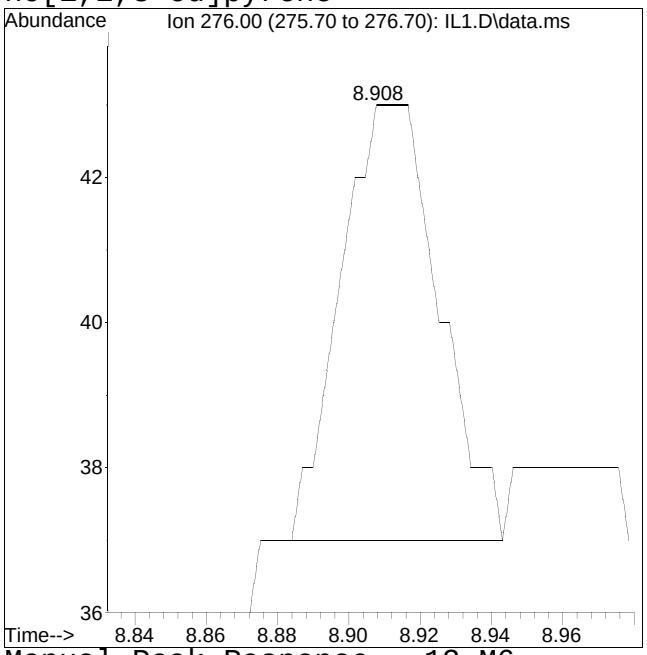
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #40: Indeno[1,2,3-cd]pyrene



Original Peak Response = 16



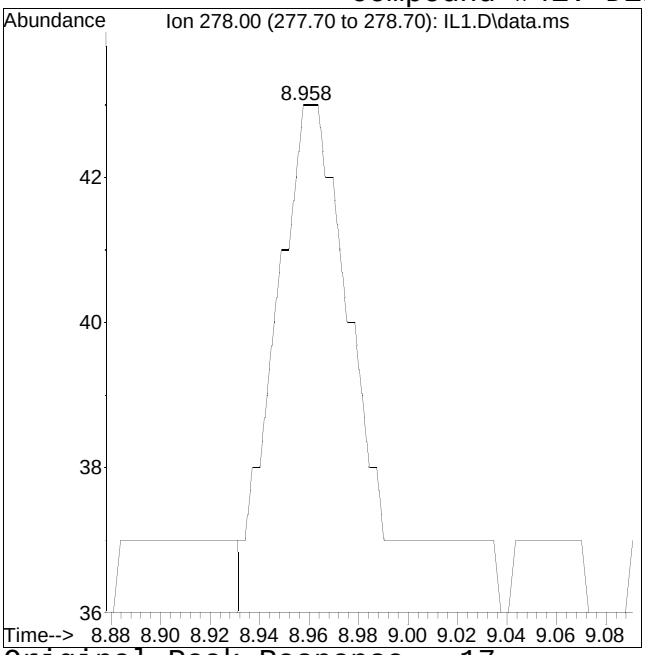
Manual Peak Response = 12 M6

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

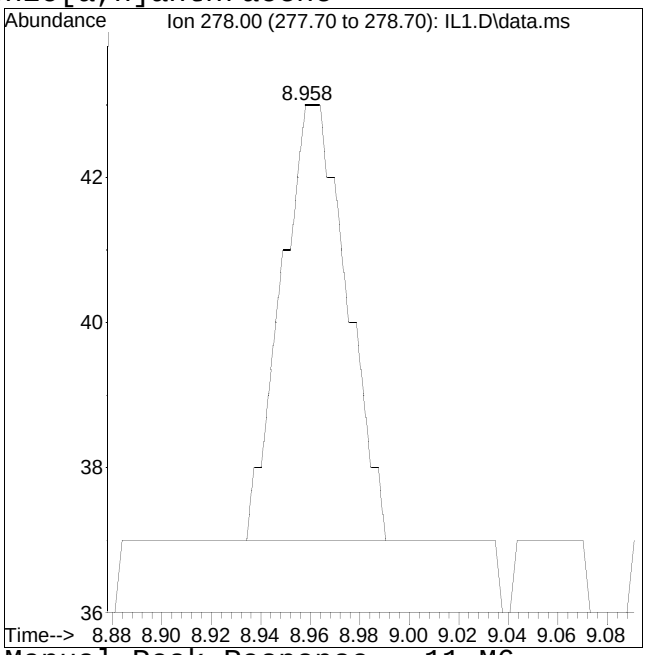
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 17



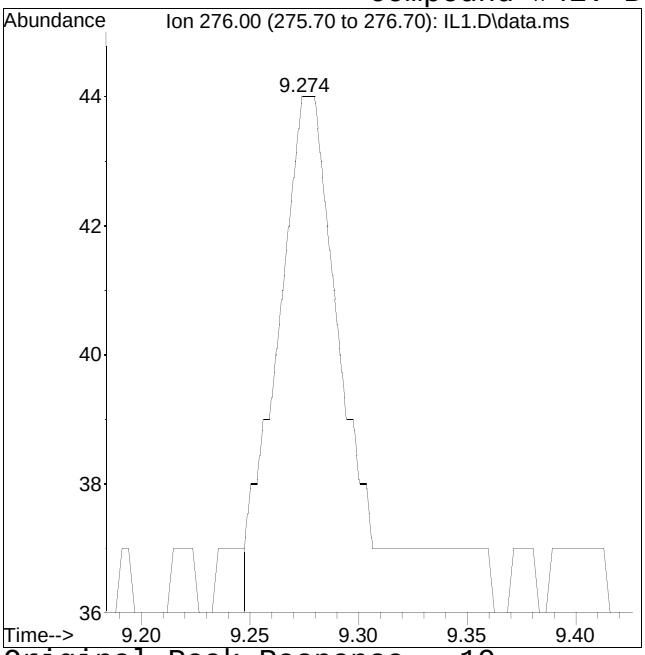
Manual Peak Response = 11 M6

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

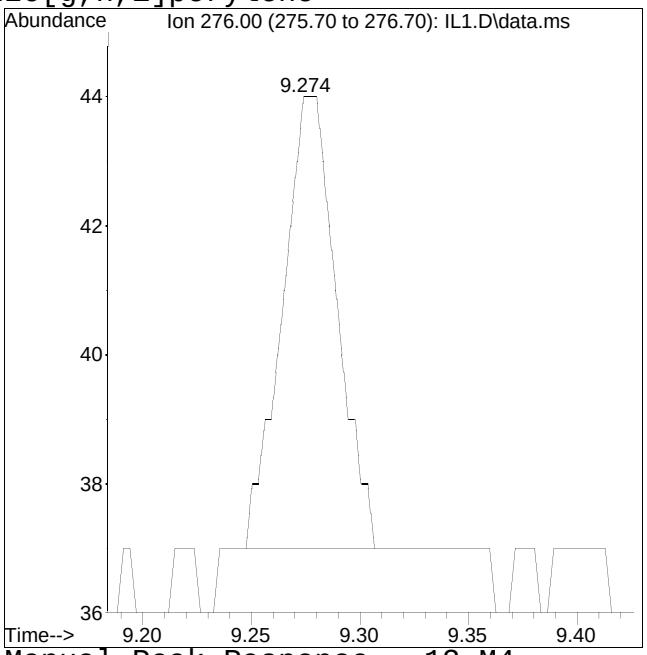
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL1.D Operator : SV128:ah
Date Inj'd : 8/31/2023 12:12 pm Instrument : SV128
Sample : IL1,32,, 0.005 Lot#10235 Quant Date : 9/5/2023 11:58 am

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 19



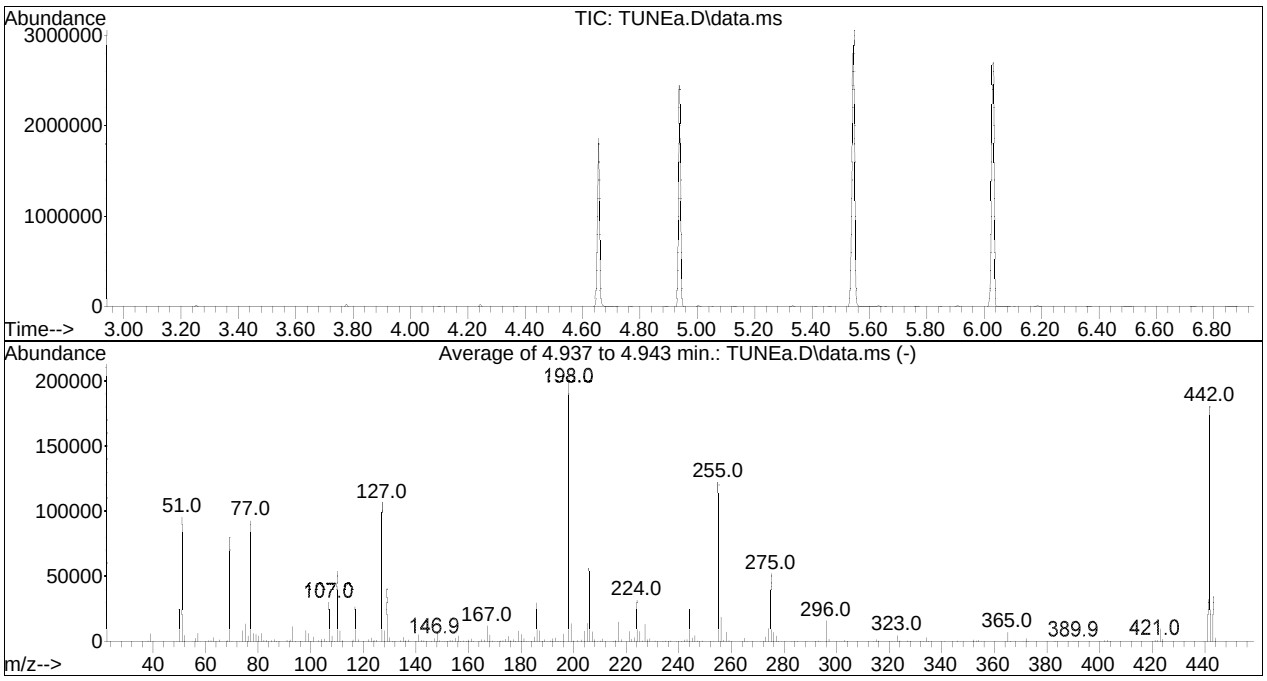
Manual Peak Response = 12 M4

M4 = Poor automated baseline construction.

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : TUNEa.D
Acq On : 05 Sep 2023 08:49 am
Operator : SV128:ah
Sample : TUNEa
Misc : WG1823727,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 12:51:59 2023



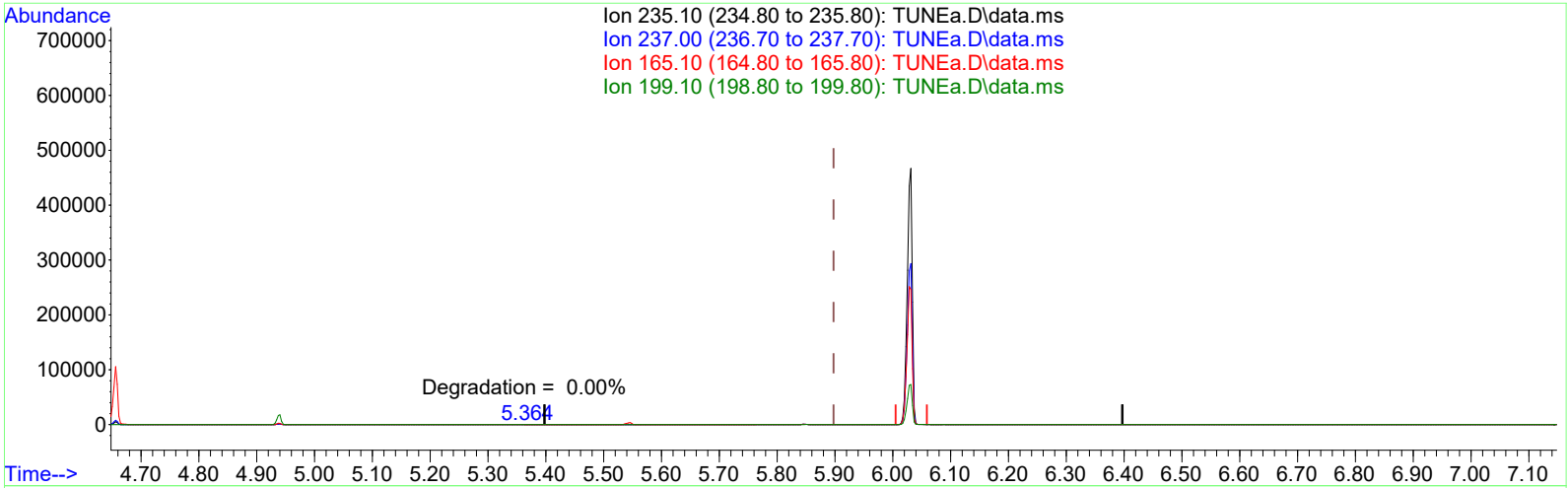
Spectrum Information: Average of 4.937 to 4.943 min.

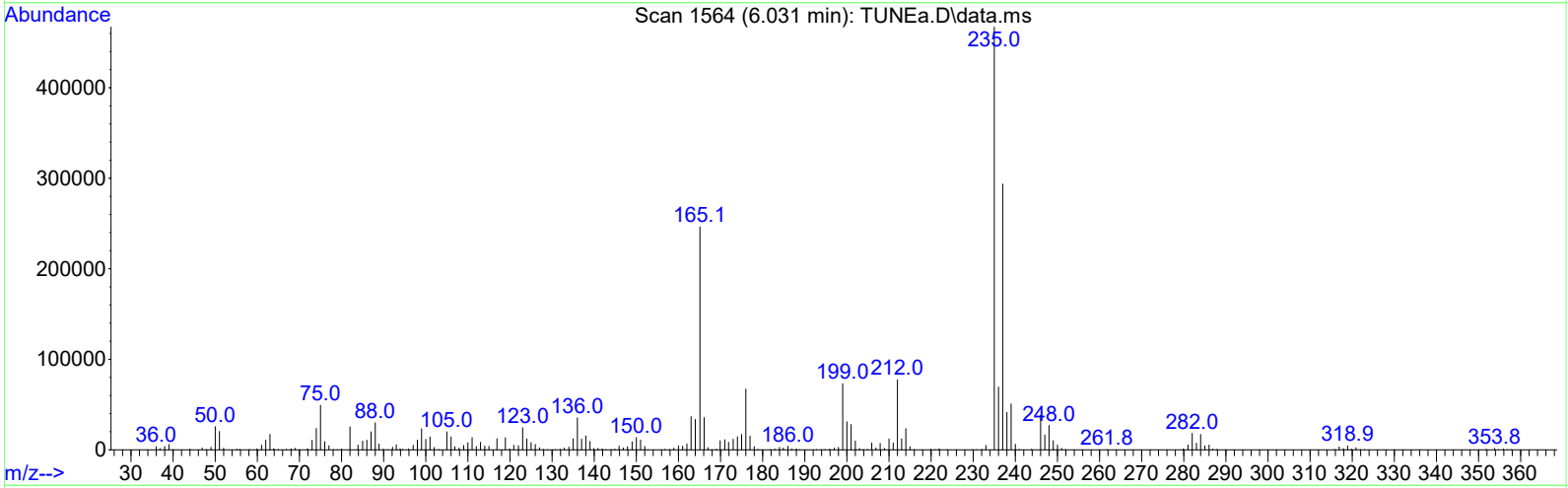
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	47.1	95459	PASS
68	69	0.00	2	1.7	1362	PASS
69	69	100	100	100.0	80005	PASS
70	69	0.00	2	0.6	448	PASS
127	198	10	80	52.6	106600	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	202499	PASS
199	198	5	9	6.7	13479	PASS
275	198	10	60	25.7	52043	PASS
365	198	1	100	3.5	7083	PASS
441	442	0.01	24	17.8	32104	PASS
442	198	50	100	89.2	180715	PASS
443	442	15	24	19.2	34731	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : TUNEa.D
Acq On : 05 Sep 2023 08:49 am
Operator : SV128:ah
Sample : TUNEa
Misc : WG1823727,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 07 11:41:52 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Aug 12 18:40:35 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNEa.D\data.ms

(6) ddt (T)

6.031min (+ 0.133) 45.96

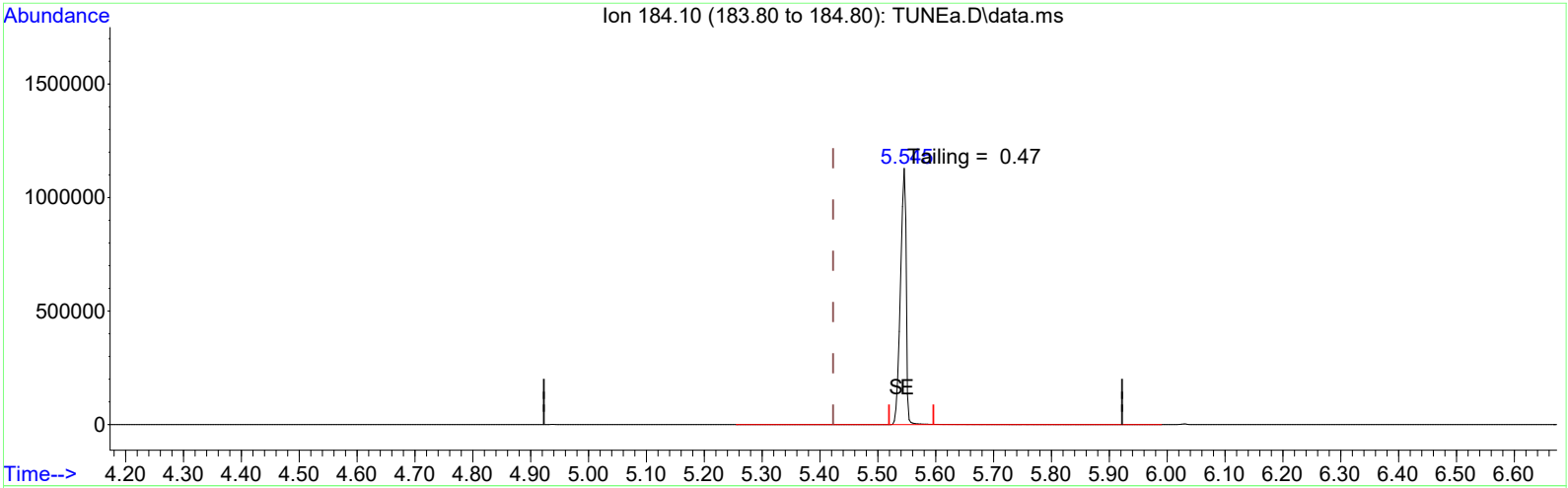
response 280185

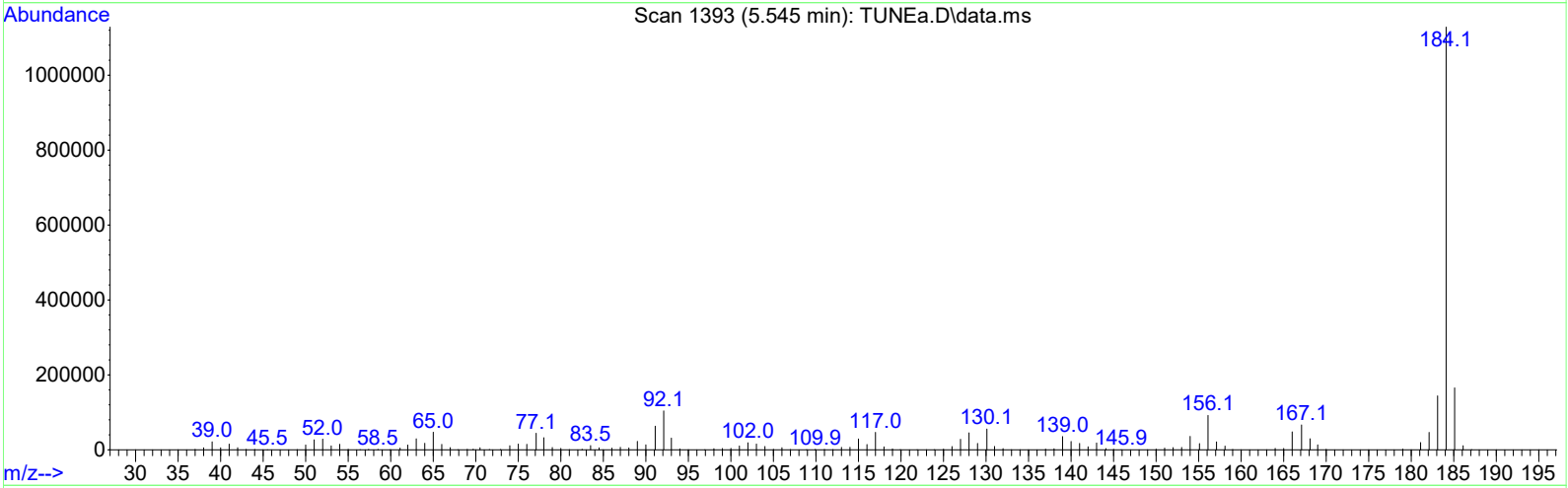
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.69
165.10	53.30	55.22
199.10	17.10	16.48

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : TUNEa.D
Acq On : 05 Sep 2023 08:49 am
Operator : SV128:ah
Sample : TUNEa
Misc : WG1823727,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 07 11:41:52 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Aug 12 18:40:35 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNEa.D\data.ms

(3) benzidine (T)

5.545min (+ 0.122) 76.62

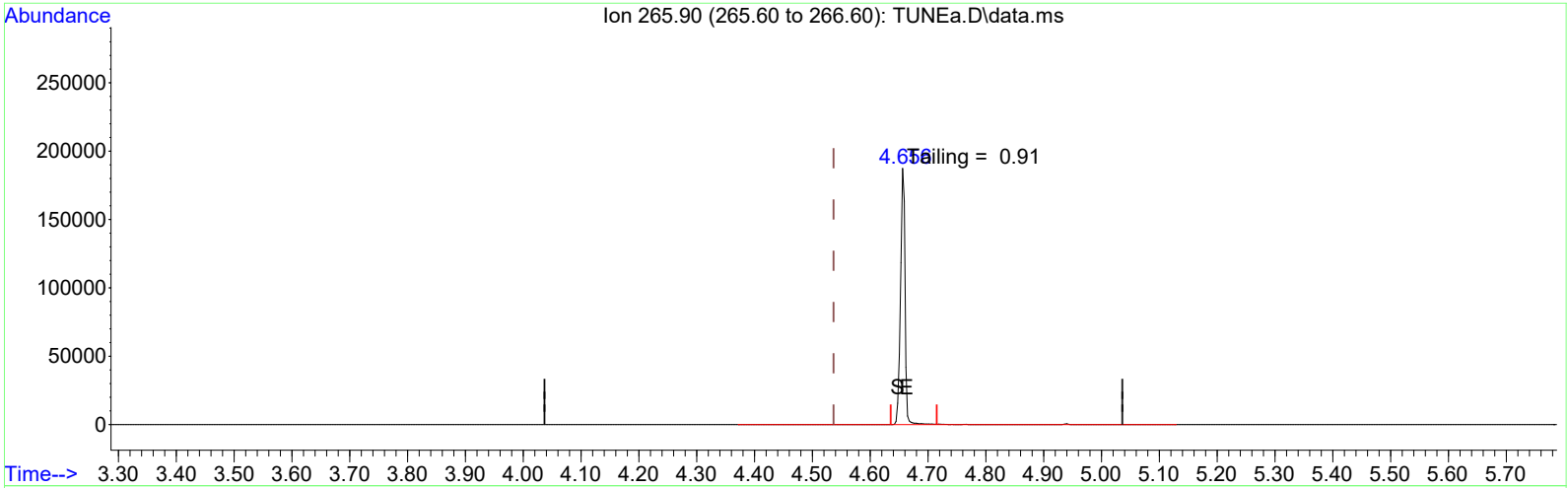
response 780043

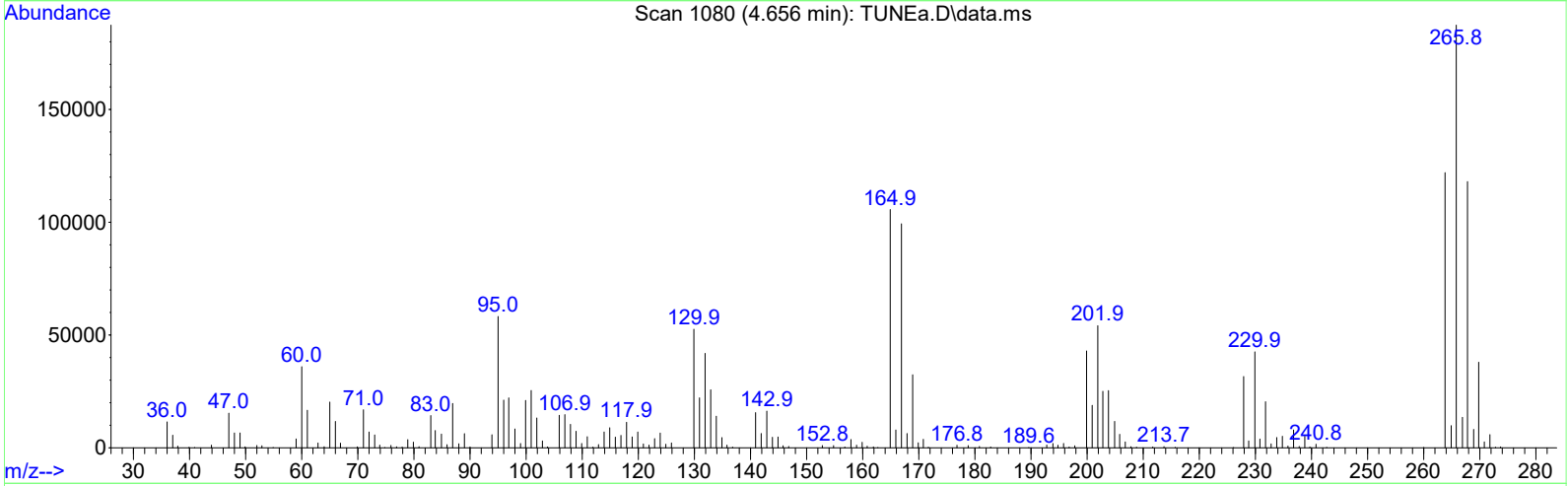
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : TUNEa.D
Acq On : 05 Sep 2023 08:49 am
Operator : SV128:ah
Sample : TUNEa
Misc : WG1823727,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Sep 07 11:41:52 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Aug 12 18:40:35 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: TUNEa.D\data.ms

(1) pentachlorophenol (T)

4.656min (+ 0.119) 48.78

response 102463

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL3a.D
Acq On : 05 Sep 2023 09:24 am
Operator : SV128:ah
Sample : IL3,32,, 0.025 Lot#10233
Misc : WG1823727,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 12:50:47 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:51 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.257	152	2961	4000.000	ng/ml	0.00
Standard Area 1 = 2292			Recovery = 129.19%			
8) Naphthalene-d8	2.923	136	11695	4000.000	ng/ml	0.00
Standard Area 1 = 8982			Recovery = 130.20%			
17) Acenaphthene-d10	3.904	164	7154	4000.000	ng/ml	0.00
Standard Area 1 = 5319			Recovery = 134.50%			
22) Phenanthrene-d10	4.753	188	17977	4000.000	ng/ml	0.00
Standard Area 1 = 12548			Recovery = 143.27%			
31) Chrysene-d12	6.331	240	17368	4000.000	ng/ml	0.00
Standard Area 1 = 11983			Recovery = 144.94%			
36) Perylene-d12	7.622	264	19236	4000.000	ng/ml	0.02
Standard Area 1 = 13430			Recovery = 143.23%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.654	112	15	19.824	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.40%#			
3) Phenol-d6	2.064	99	18M4	19.441	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.39%#			
7) Nitrobenzene-d5	2.538	82	15	19.113	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.76%#			
13) 2-Fluorobiphenyl	3.522	172	47	19.595	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.78%#			
21) 2,4,6-Tribromophenol	4.353	330	5M2	16.645	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.33%#			
30) 4-Terphenyl-d14	5.683	244	65	17.110	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.68%#			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.120	93	16M7	20.054	ng/ml	
5) n-nitrosodi-n-propylamine	2.459	70	12M4	20.050	ng/ml	
6) Hexachloroethane	2.520	117	8M2	22.474	ng/ml	
9) Naphthalene	2.935	128	57M7	19.948	ng/ml	
10) Hexachlorobutadiene	3.009	225	11M4	20.473	ng/ml	
11) 2-Methylnaphthalene	3.317	142	38M7	19.924	ng/ml	
12) 1-Methylnaphthalene	3.372	142	34	19.241	ng/ml	87
14) 2-Chloronaphthalene	3.589	162	39	19.724	ng/ml	96
15) 2,6-Dinitrotoluene	3.782	165	6M4	15.194	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL3a.D
Acq On : 05 Sep 2023 09:24 am
Operator : SV128:ah
Sample : IL3,32,, 0.025 Lot#10233
Misc : WG1823727,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 12:50:47 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:51 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) Acenaphthylene	3.821	152	59	18.737	ng/ml	99
18) Acenaphthene	3.922	153	44M6	19.411	ng/ml	
19) 2,4-Dinitrotoluene	4.011	165	8	14.722	ng/ml	89
20) Fluorene	4.216	166	46M6	18.597	ng/ml	
23) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
24) Hexachlorobenzene	4.537	284	18	18.645	ng/ml	100
25) Pentachlorophenol	4.646	266	6M4	31.130	ng/ml	
26) Phenanthrene	4.765	178	80M6	17.849	ng/ml	
27) Anthracene	4.794	178	74	16.966	ng/ml	98
28) Fluoranthene	5.456	202	90	17.284	ng/ml	97
29) Pyrene	5.584	202	92	17.070	ng/ml	99
32) Benzo[a]anthracene	6.326	228	144	18.526	ng/ml#	88
33) 3,3'-Dichlorobenzidine	6.312	252	30M7	13.850	ng/ml	
34) Chrysene	6.351	228	93	17.356	ng/ml	97
35) Bis(2-ethylhexyl)phtha...	6.370	149	39	11.531	ng/ml	95
37) Benzo[b]fluoranthene	7.220	252	92	16.975	ng/ml	100
38) Benzo[k]fluoranthene	7.245	252	80	15.950	ng/ml	96
39) Benzo[a]pyrene	7.550	252	72	15.468	ng/ml	95
40) Indeno[1,2,3-cd]pyrene	8.928	276	83	17.818	ng/ml	95
41) Dibenzo[a,h]anthracene	8.978	278	76M4	16.950	ng/ml	
42) Benzo[g,h,i]perylene	9.285	276	105M4	21.955	ng/ml	

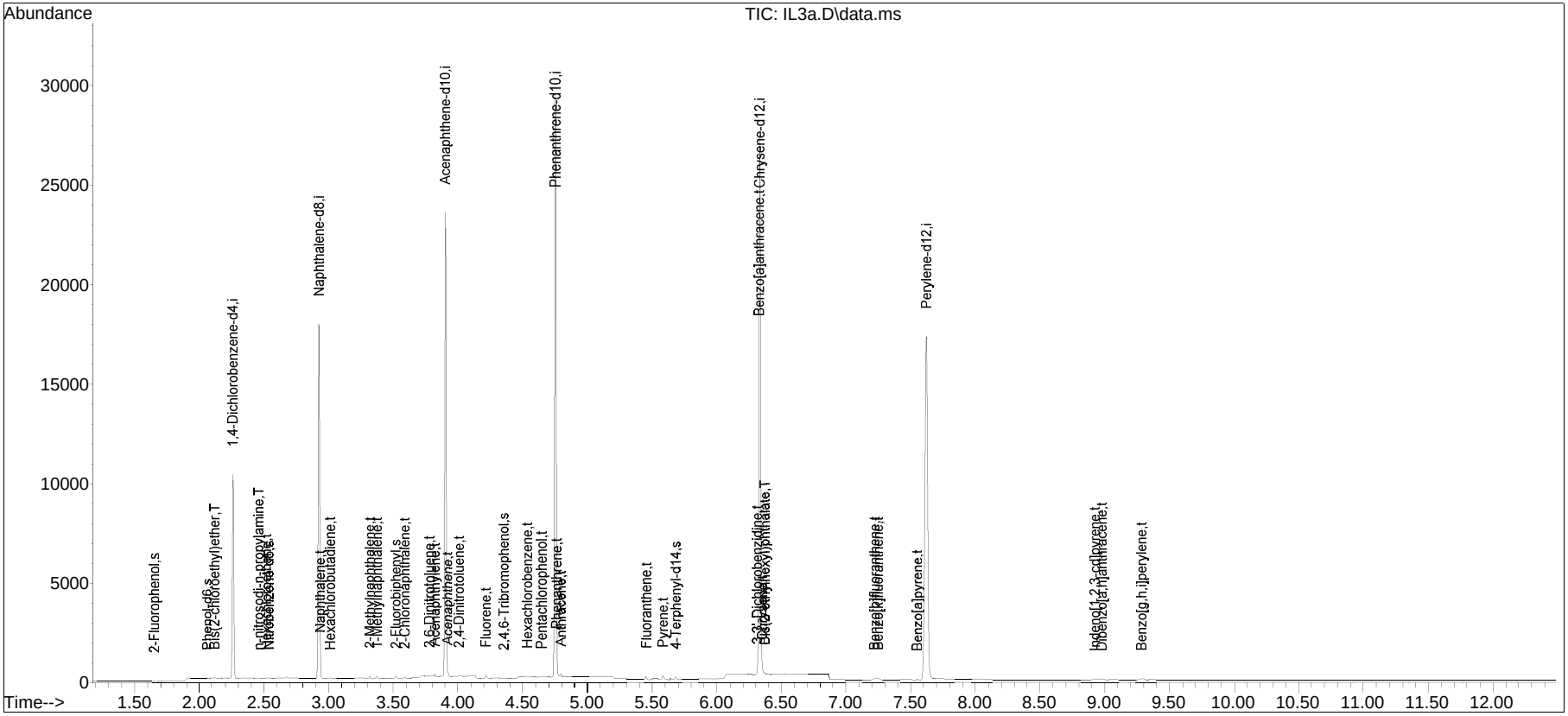
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : IL3a.D
Acq On : 05 Sep 2023 09:24 am
Operator : SV128:ah
Sample : IL3,32,, 0.025 Lot#10233
Misc : WG1823727,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 12:50:47 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:51 2023
Response via : Initial Calibration

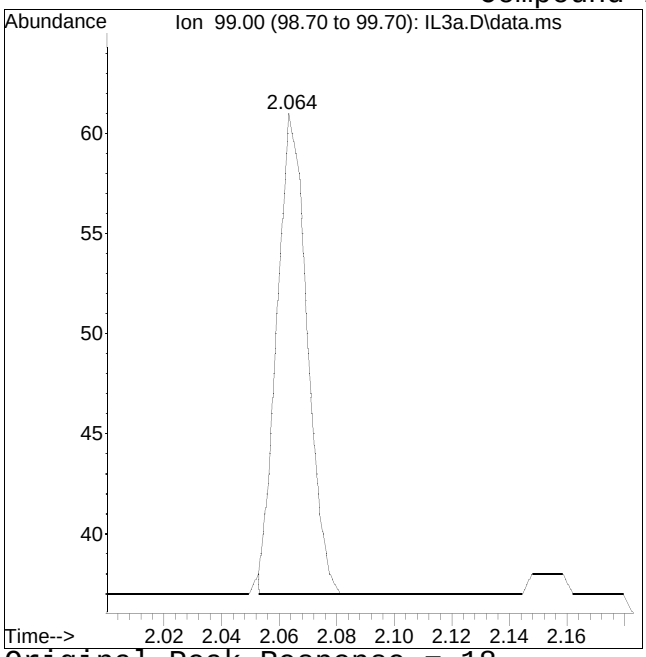
Sub List : Default - All compounds listedIical\IL7.D•



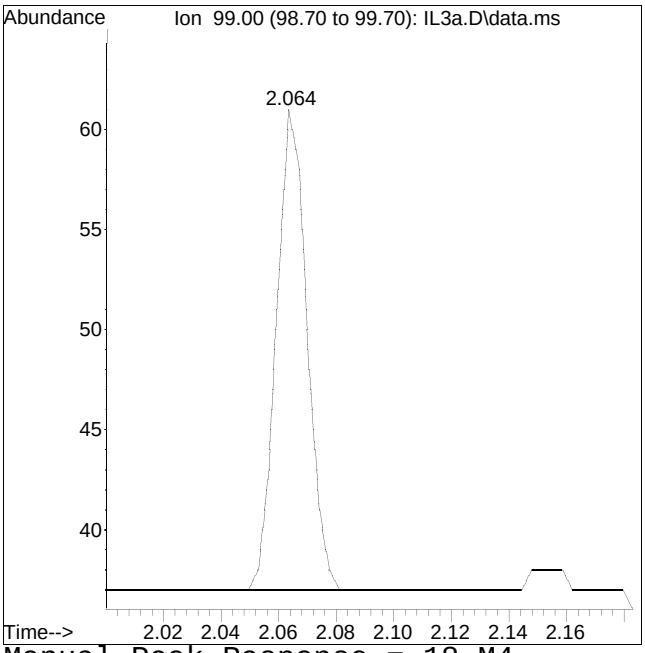
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQ
Data File : IL3a.D
Date Inj'd : 9/5/2023 9:24 am
Sample : IL3,32,, 0.025 Lot#10233
Method : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 9/5/2023 11:58 am

Compound #3: Phenol-d6



Original Peak Response = 18



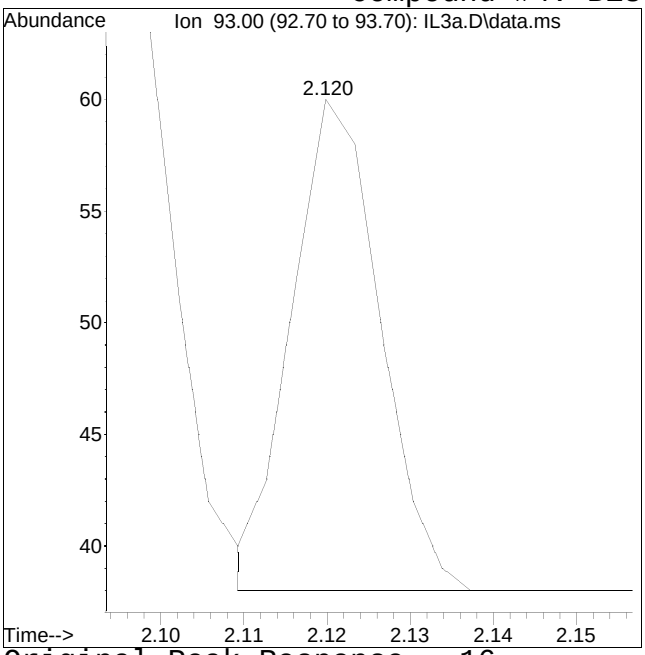
Manual Peak Response = 18 M4

M4 = Poor automated baseline construction.

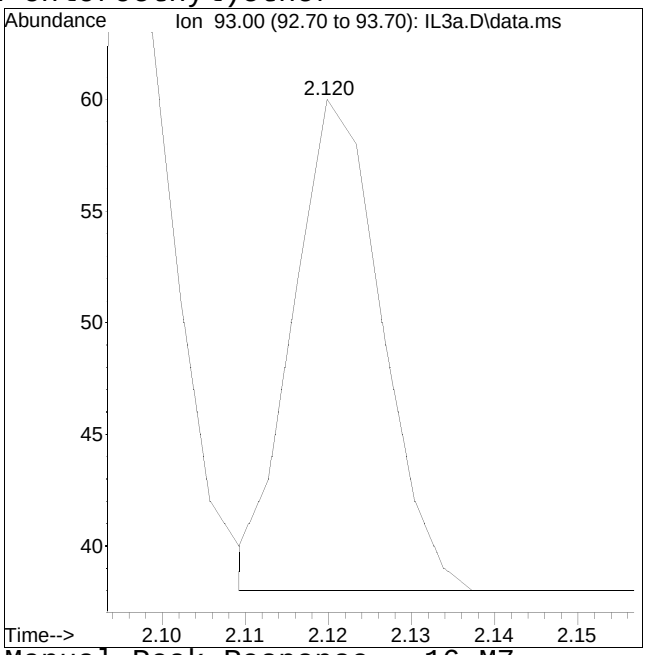
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #4: Bis(2-chloroethyl)ether



Original Peak Response = 16



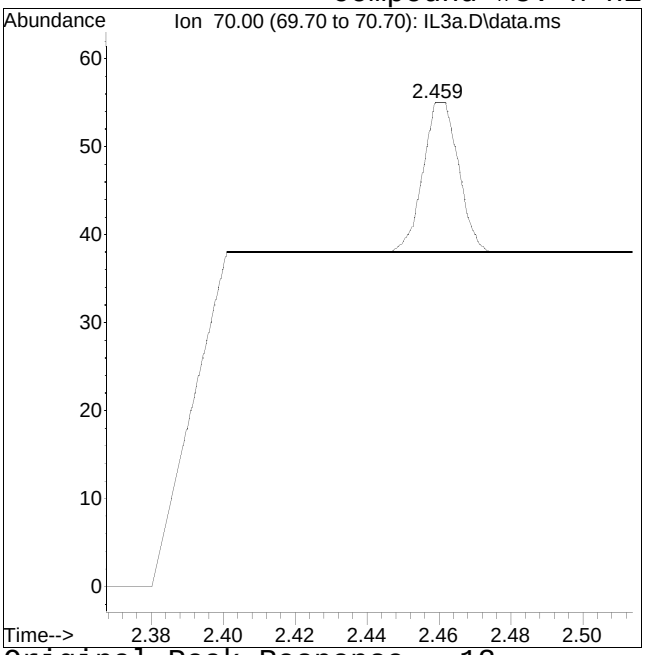
Manual Peak Response = 16 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

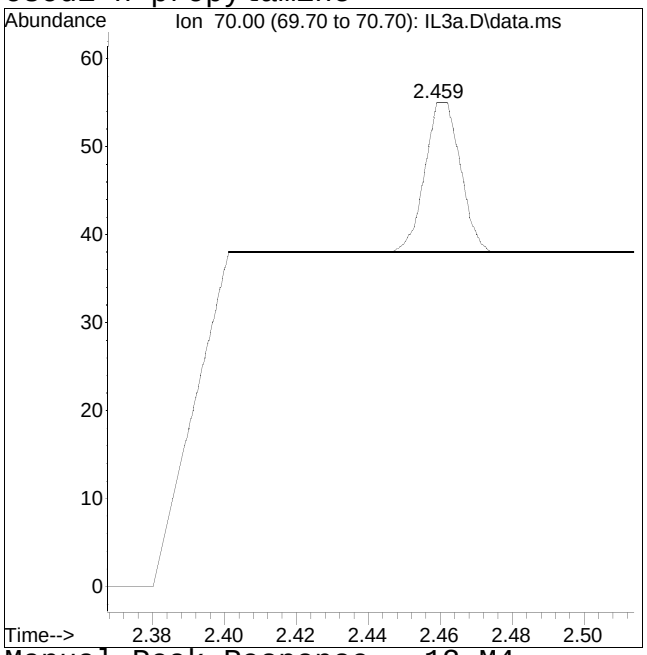
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 12



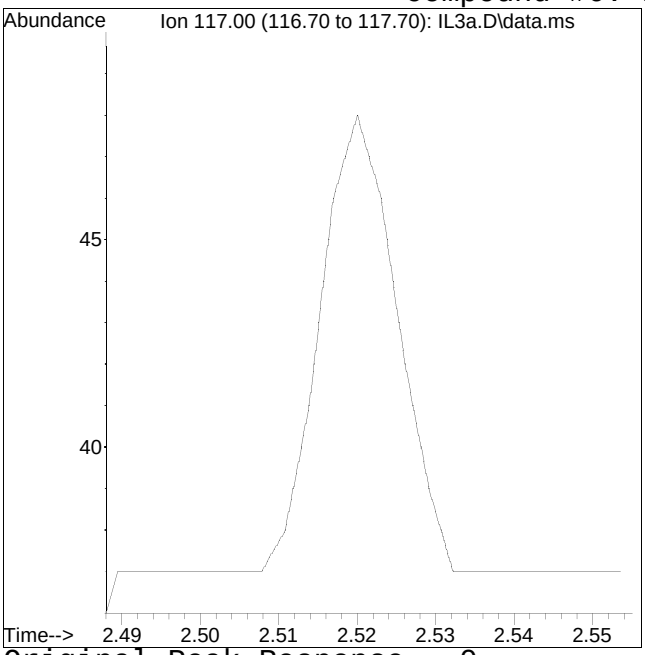
Manual Peak Response = 12 M4

M4 = Poor automated baseline construction.

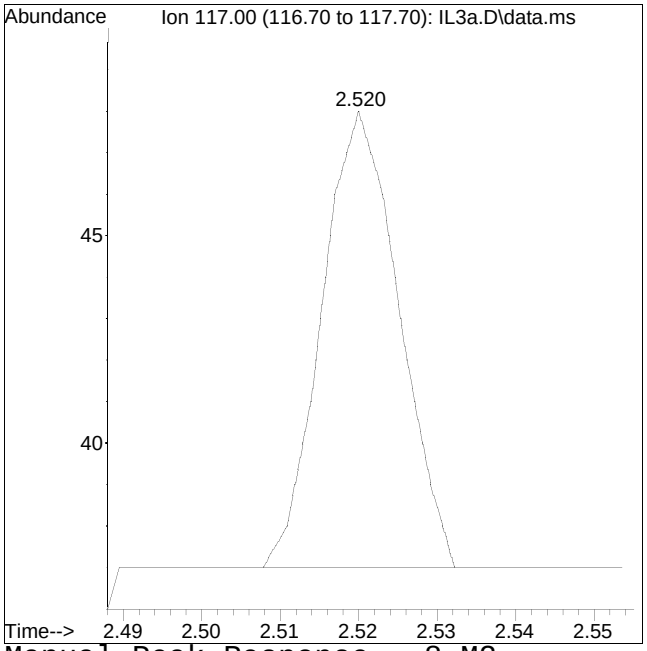
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #6: Hexachloroethane



Original Peak Response = 0



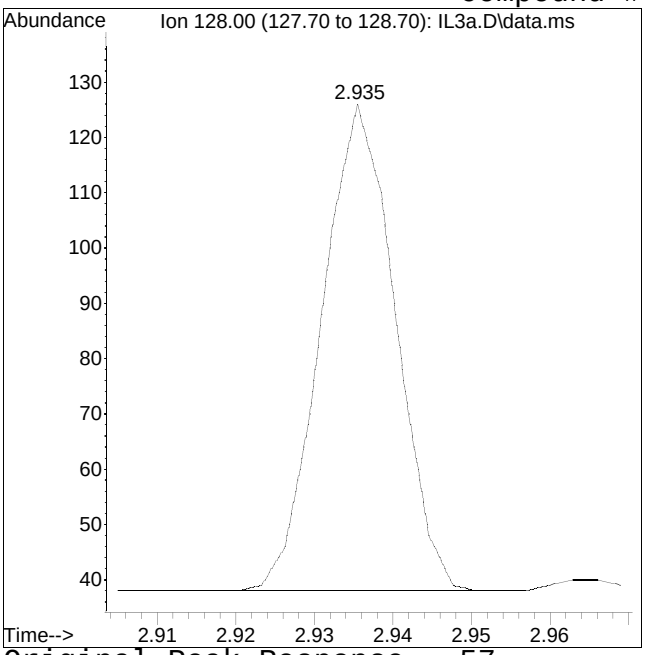
Manual Peak Response = 8 M2

M2 = Peak not found by automatic integration algorithm.

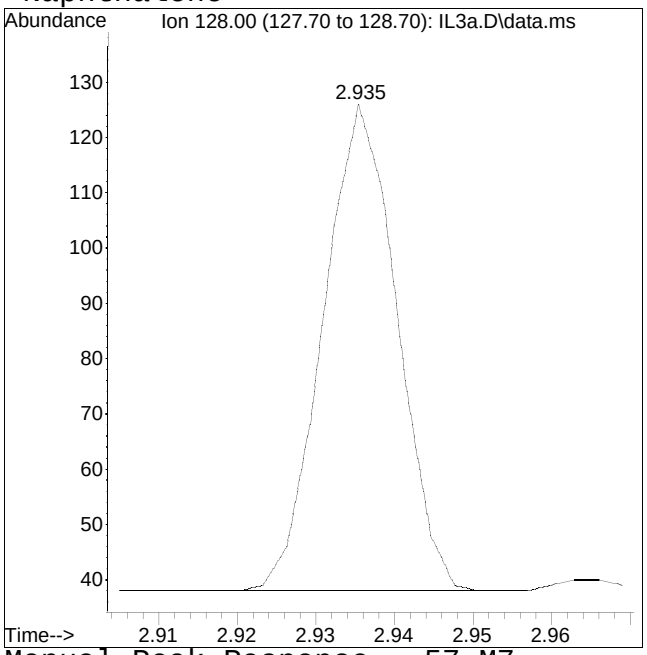
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #9: Naphthalene



Original Peak Response = 57



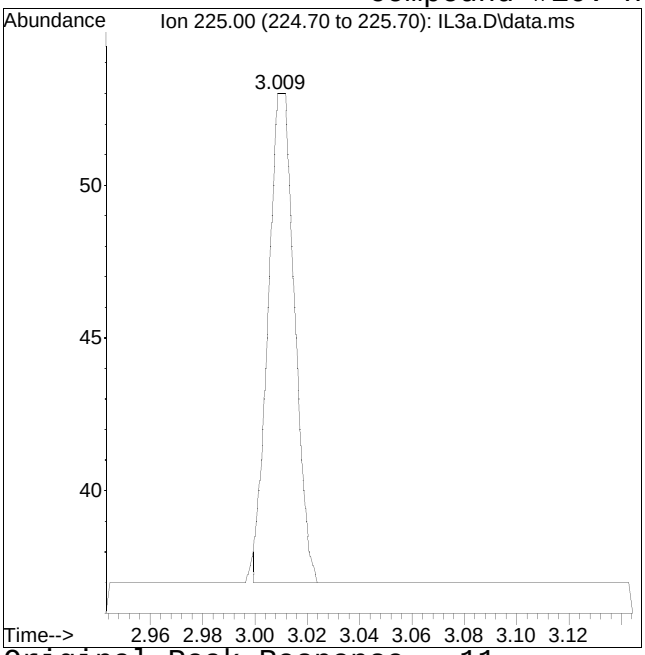
Manual Peak Response = 57 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

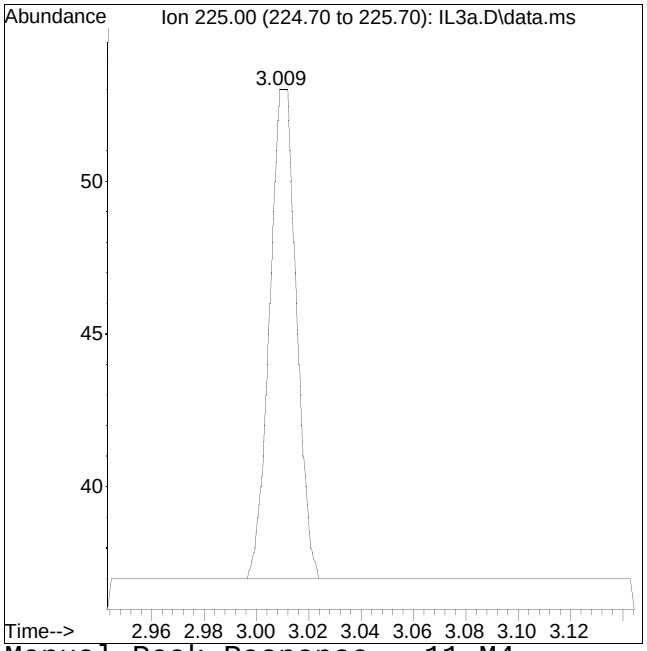
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #10: Hexachlorobutadiene



Original Peak Response = 11



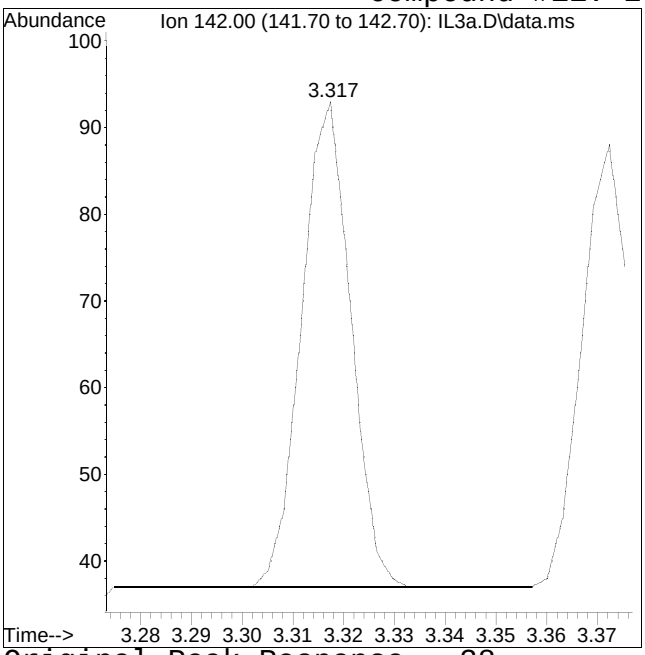
Manual Peak Response = 11 M4

M4 = Poor automated baseline construction.

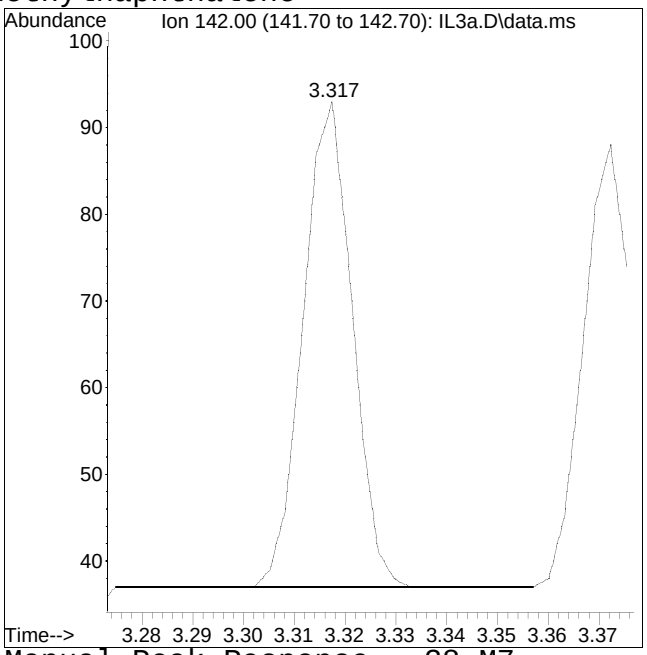
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #11: 2-Methylnaphthalene



Original Peak Response = 38



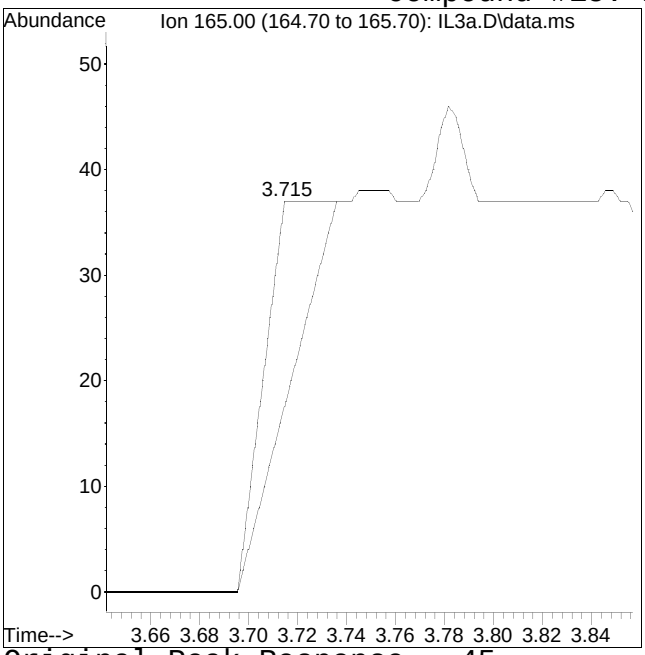
Manual Peak Response = 38 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

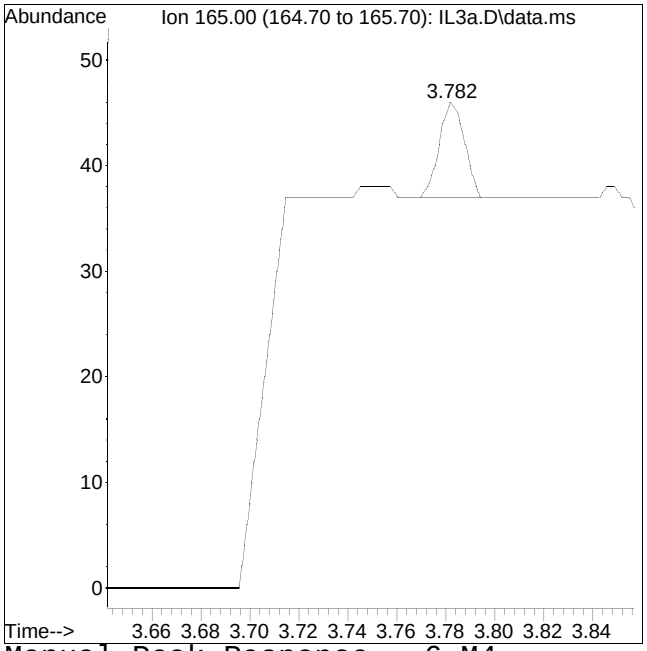
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 45



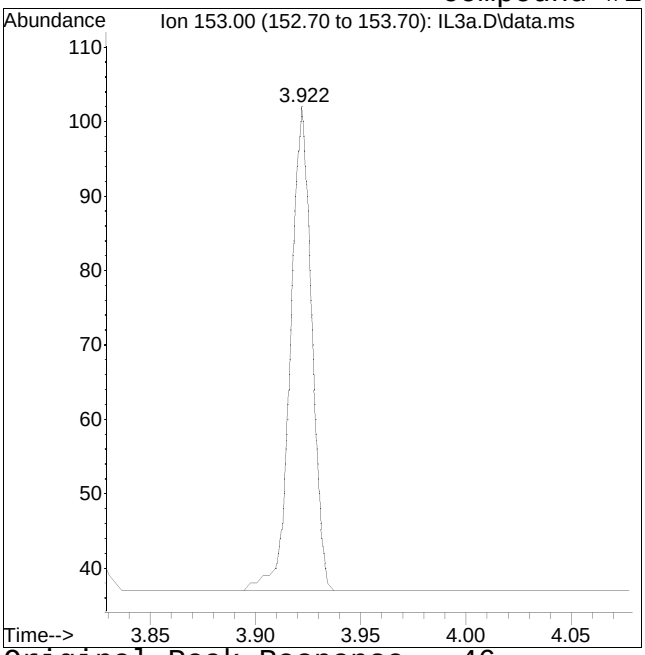
Manual Peak Response = 6 M4

M4 = Poor automated baseline construction.

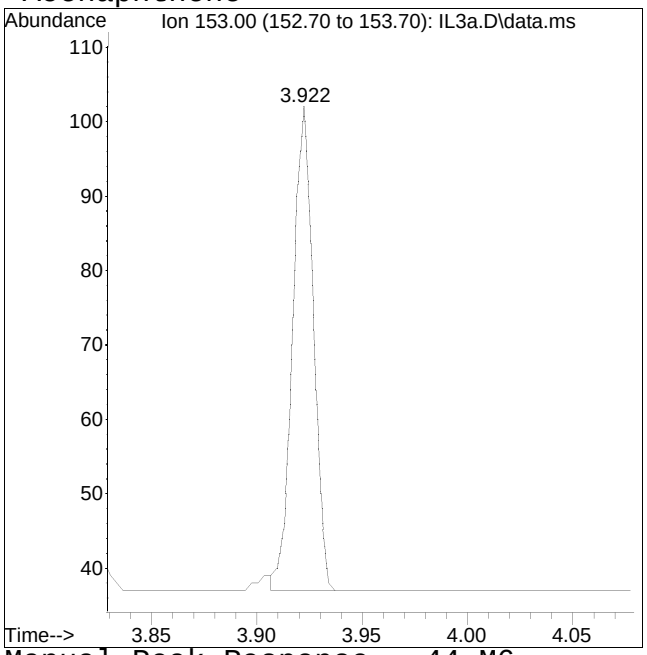
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #18: Acenaphthene



Original Peak Response = 46



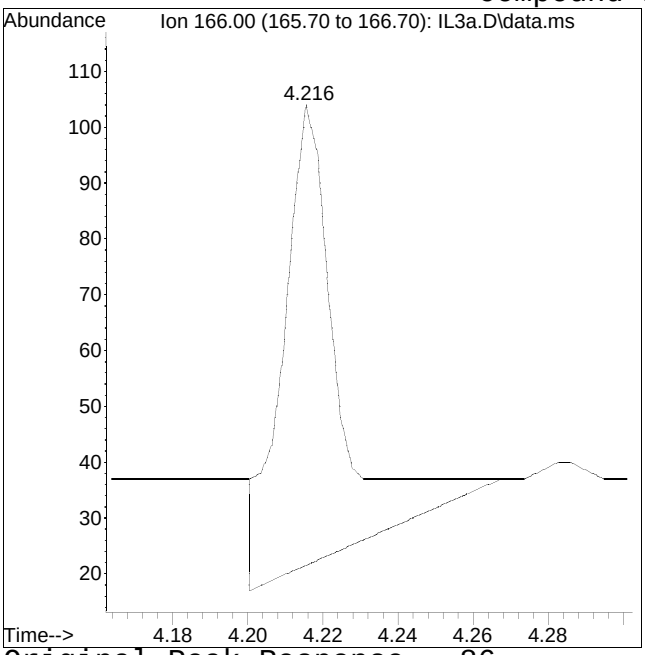
Manual Peak Response = 44 M6

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

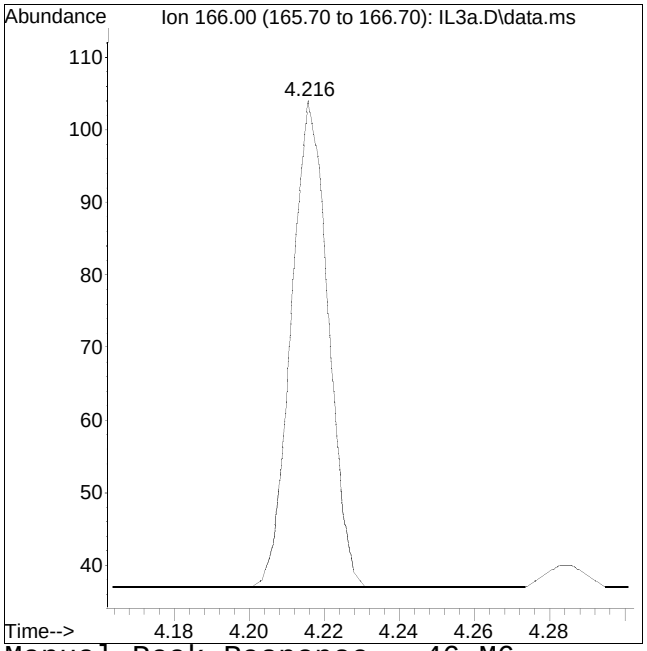
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #20: Fluorene



Original Peak Response = 86



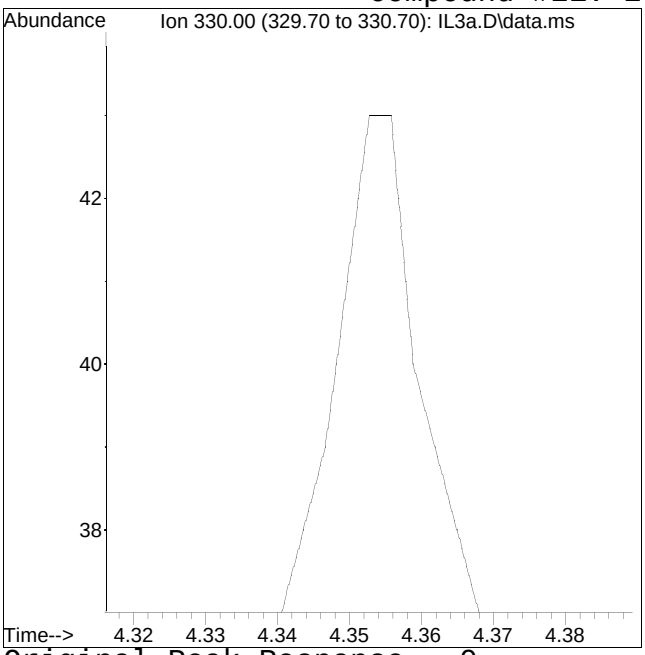
Manual Peak Response = 46 M6

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

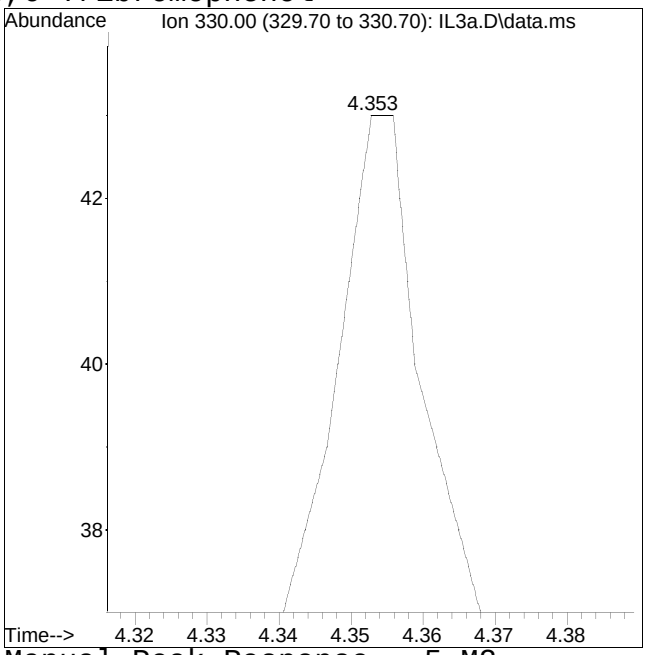
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #21: 2,4,6-Tribromophenol



Original Peak Response = 0



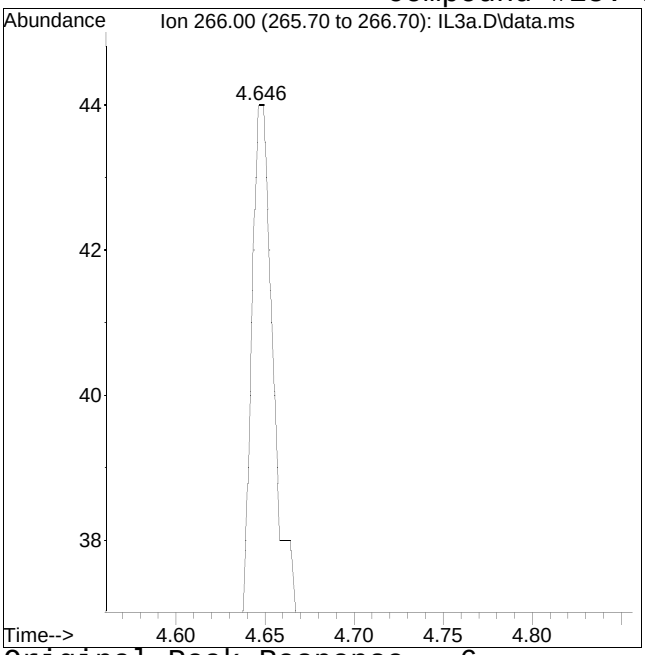
Manual Peak Response = 5 M2

M2 = Peak not found by automatic integration algorithm.

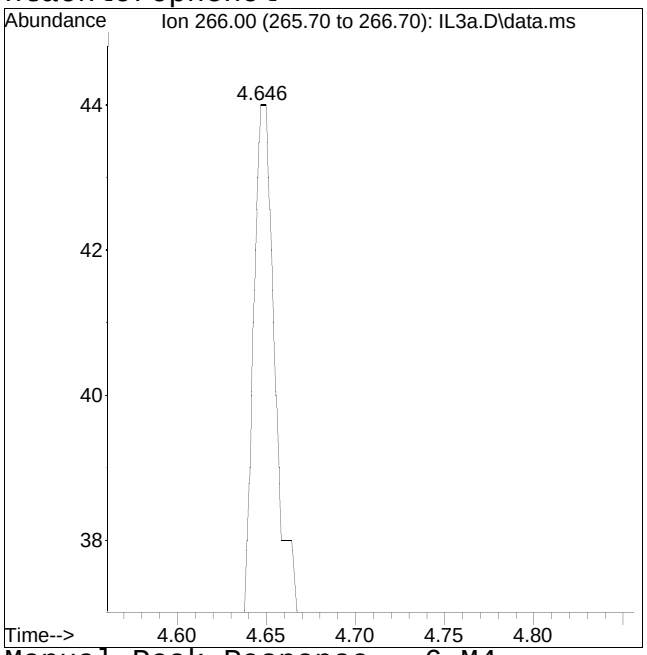
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #25: Pentachlorophenol



Original Peak Response = 6



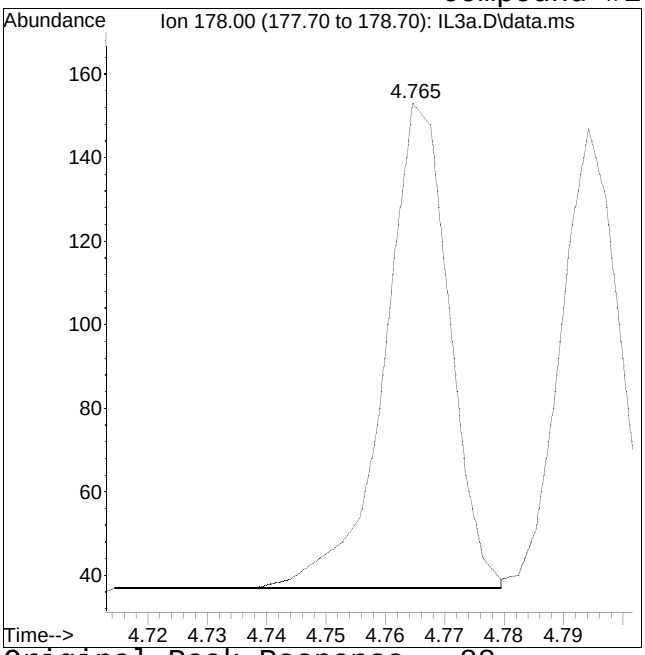
Manual Peak Response = 6 M4

M4 = Poor automated baseline construction.

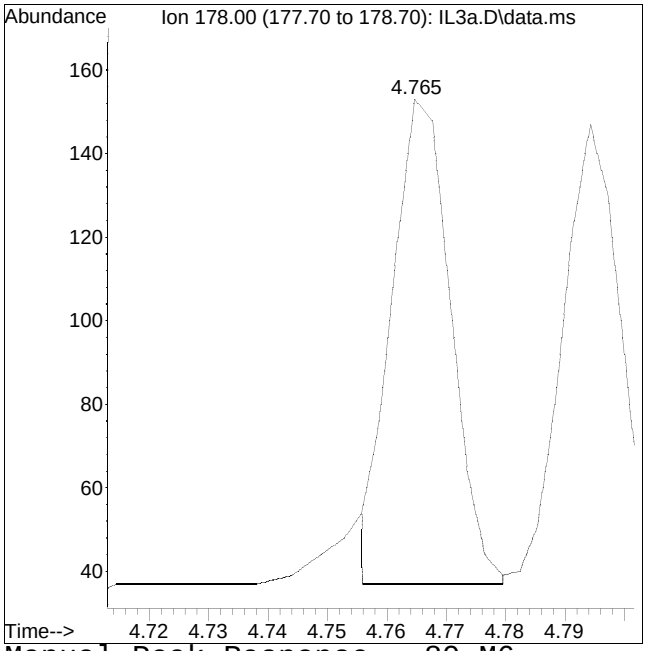
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #26: Phenanthrene



Original Peak Response = 88



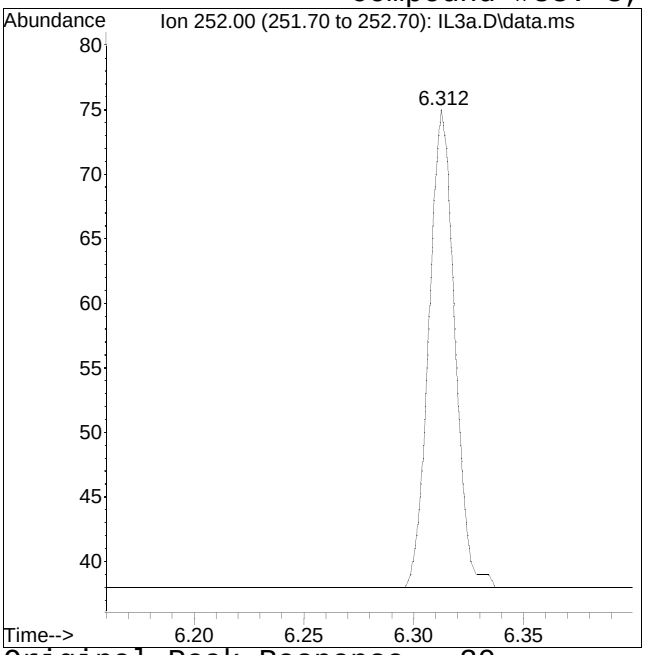
Manual Peak Response = 80 M6

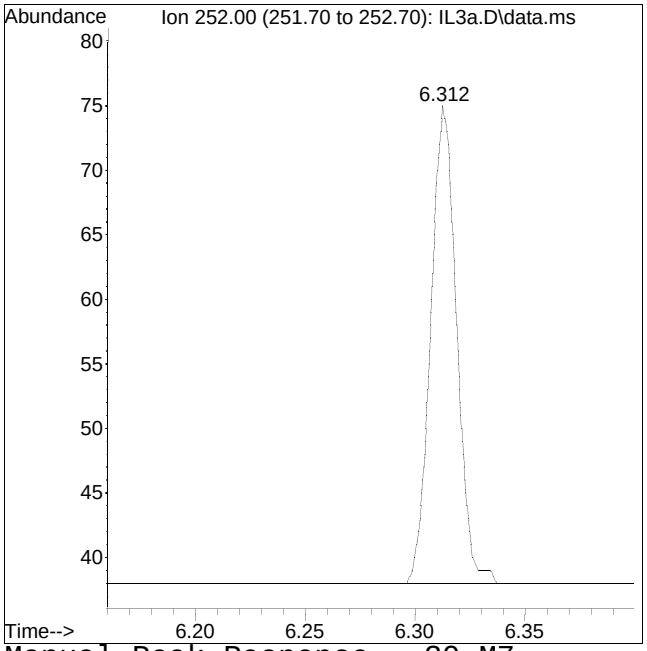
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #33: 3,3'-Dichlorobenzidine



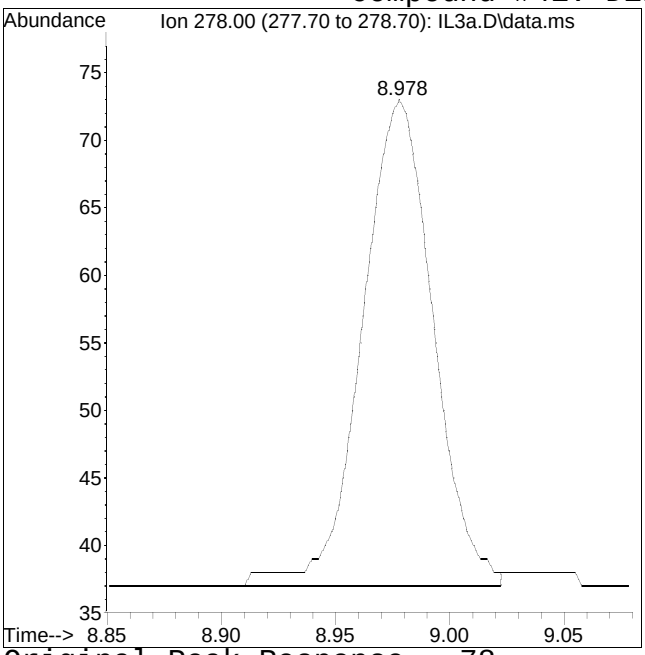


Original Peak Response = 30 Manual Peak Response = 30 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

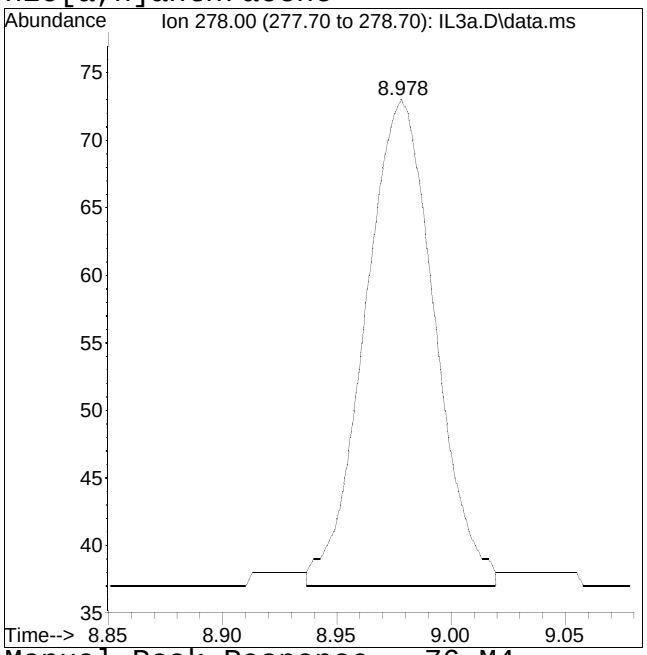
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 78



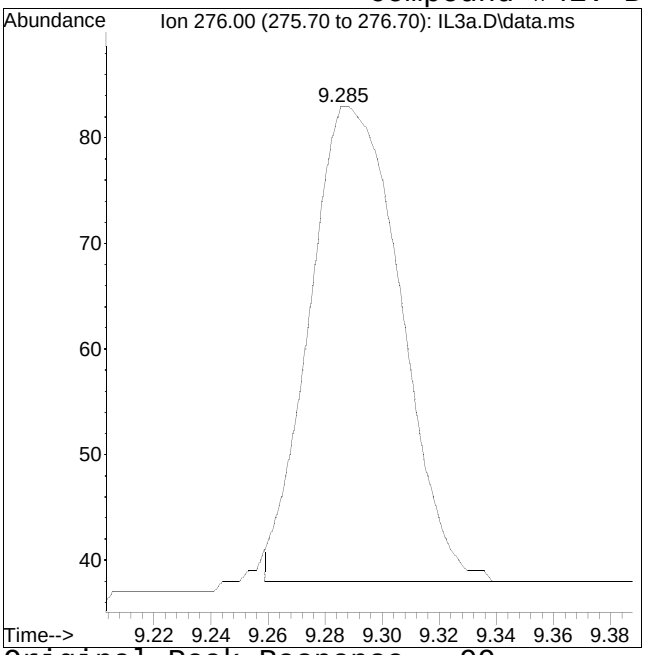
Manual Peak Response = 76 M4

M4 = Poor automated baseline construction.

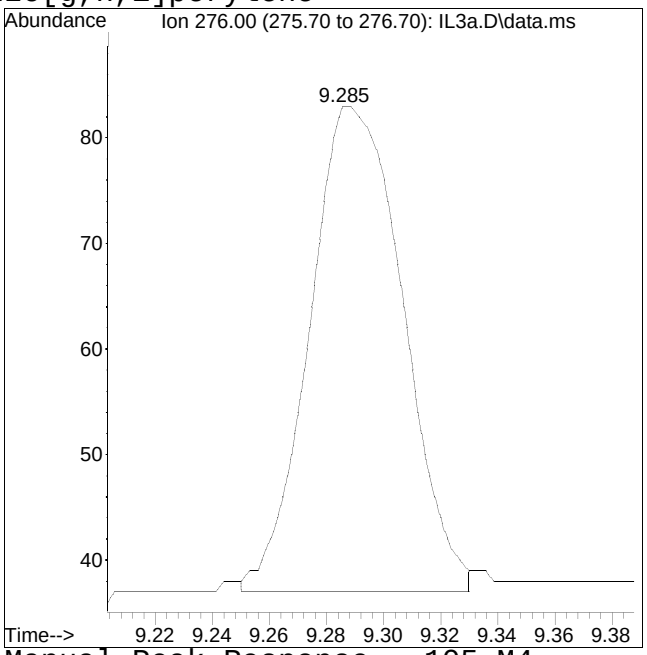
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : IL3a.D Operator : SV128:ah
Date Inj'd : 9/5/2023 9:24 am Instrument : SV128
Sample : IL3,32,, 0.025 Lot#10233 Quant Date : 9/5/2023 11:58 am

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 99



Manual Peak Response = 105 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : ICVa.D
Acq On : 05 Sep 2023 11:08 am
Operator : SV128:ah
Sample : CQICV,32,, 1.0 Lot#10193
Misc : WG1823727,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 12:56:42 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:23 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.255	152	2092	4000.000	ng/ml	0.00
Standard Area 1 = 2292			Recovery = 91.27%			
8) Naphthalene-d8	2.922	136	8088	4000.000	ng/ml	0.00
Standard Area 1 = 8982			Recovery = 90.05%			
17) Acenaphthene-d10	3.902	164	4918	4000.000	ng/ml	0.00
Standard Area 1 = 5319			Recovery = 92.46%			
22) Phenanthrene-d10	4.751	188	12055	4000.000	ng/ml	0.00
Standard Area 1 = 12548			Recovery = 96.07%			
31) Chrysene-d12	6.330	240	11986	4000.000	ng/ml	0.00
Standard Area 1 = 11983			Recovery = 100.03%			
36) Perylene-d12	7.612	264	13738	4000.000	ng/ml	0.00
Standard Area 1 = 13430			Recovery = 102.29%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.648	112	555	1038.191	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.76%			
3) Phenol-d6	2.058	99	665	1016.574	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.33%			
7) Nitrobenzene-d5	2.534	82	548	988.316	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 39.53%			
13) 2-Fluorobiphenyl	3.520	172	1660	1000.726	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 40.03%			
21) 2,4,6-Tribromophenol	4.351	330	198	958.853	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 19.18%			
30) 4-Terphenyl-d14	5.681	244	2387M6	936.994	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 37.48%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	2.114	93	581	1030.714	ng/ml	99
5) n-nitrosodi-n-propylamine	2.454	70	422M7	997.962	ng/ml	
6) Hexachloroethane	2.515	117	252	1002.018	ng/ml	91
9) Naphthalene	2.931	128	2016	1020.174	ng/ml#	100
10) Hexachlorobutadiene	3.007	225	383	1030.721	ng/ml	99
11) 2-Methylnaphthalene	3.313	142	1329	1007.550	ng/ml	99
12) 1-Methylnaphthalene	3.368	142	1302	1065.414	ng/ml	100
14) 2-Chloronaphthalene	3.584	162	1428	1044.275	ng/ml	95
15) 2,6-Dinitrotoluene	3.780	165	251M4	919.074	ng/ml	
16) Acenaphthylene	3.820	152	2292	1052.490	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : ICVa.D
Acq On : 05 Sep 2023 11:08 am
Operator : SV128:ah
Sample : CQICV,32,, 1.0 Lot#10193
Misc : WG1823727,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 12:56:42 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:23 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV128\230831aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
18) Acenaphthene	3.920	153	1560	1001.123	ng/ml	95
19) 2,4-Dinitrotoluene	4.009	165	333	891.393	ng/ml	97
20) Fluorene	4.214	166	1745	1026.246	ng/ml	97
23) 4,6-Dinitro-o-cresol	4.241	198	147M6	724.005	ng/ml	
24) Hexachlorobenzene	4.535	284	617M6	953.086	ng/ml	
25) Pentachlorophenol	4.645	266	283	703.084	ng/ml	99
26) Phenanthrene	4.763	178	2946	980.203	ng/ml	100
27) Anthracene	4.793	178	2885M6	986.356	ng/ml	
28) Fluoranthene	5.454	202	3391M6	971.114	ng/ml	
29) Pyrene	5.585	202	3622	1002.198	ng/ml	100
32) Benzo[a]anthracene	6.321	228	3629	914.461	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.311	252	1268	848.249	ng/ml#	98
34) Chrysene	6.346	228	3482	941.592	ng/ml	99
35) Bis(2-ethylhexyl)phtha...	6.368	149	1783	763.859	ng/ml	100
37) Benzo[b]fluoranthene	7.216	252	3675M6	949.437	ng/ml	
38) Benzo[k]fluoranthene	7.242	252	3416	953.620	ng/ml	97
39) Benzo[a]pyrene	7.546	252	3022M6	909.056	ng/ml	
40) Indeno[1,2,3-cd]pyrene	8.928	276	3062	920.387	ng/ml	96
41) Dibenzo[a,h]anthracene	8.975	278	3200M6	999.309	ng/ml	
42) Benzo[g,h,i]perylene	9.291	276	3271	957.663	ng/ml	96

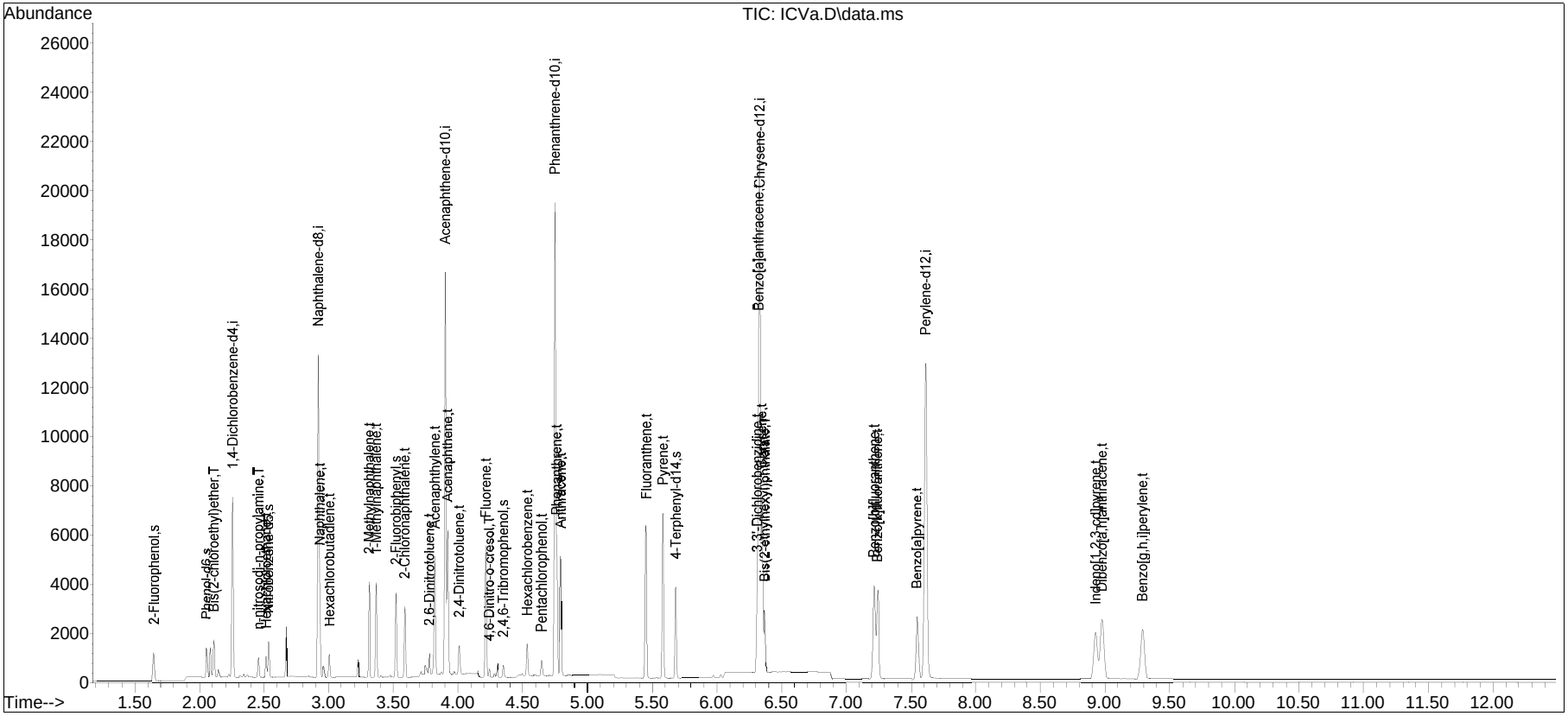
(#) = qualifier out of range (m) = manual integration (+) = signals summed

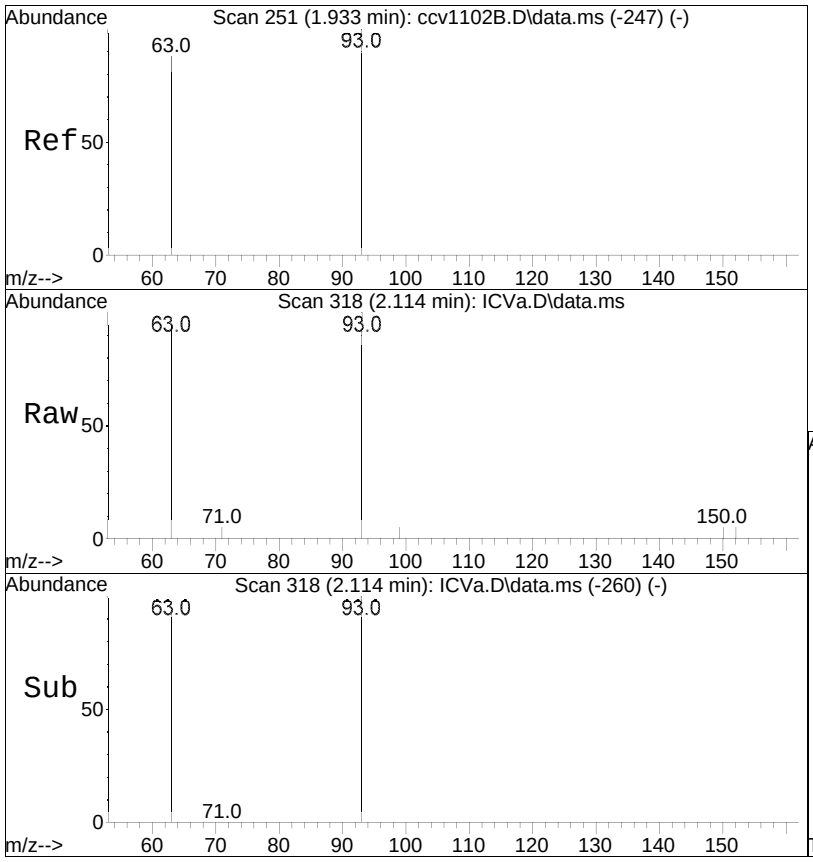
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\230831aLVIical\
Data File : ICVa.D
Acq On : 05 Sep 2023 11:08 am
Operator : SV128:ah
Sample : CQICV,32,, 1.0 Lot#10193
Misc : WG1823727,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 05 12:56:42 2023
Quant Method : I:\8270SIM\SV128\230831aLVIical\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Sep 05 11:58:23 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•

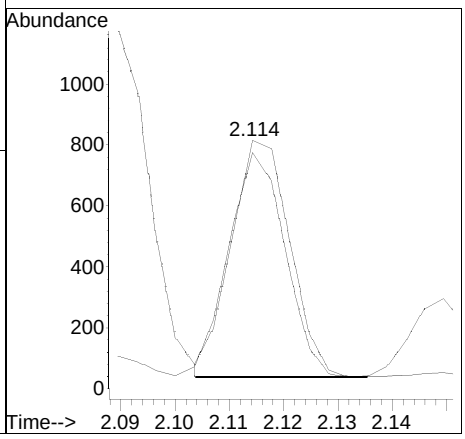


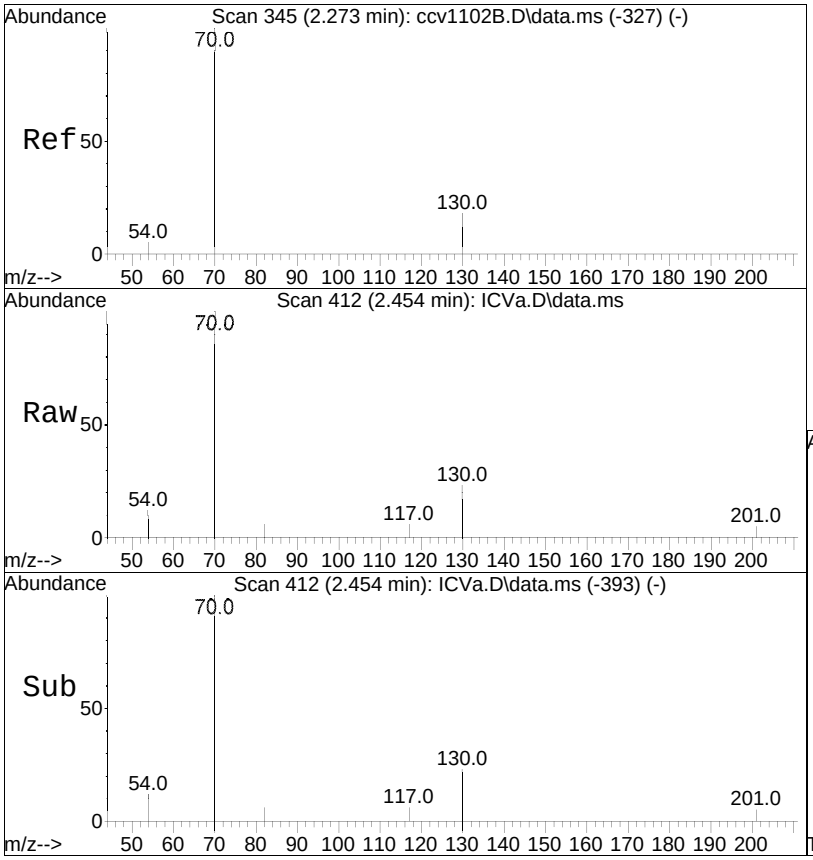


#4
Bis(2-chloroethyl)ether
Concen: 1030.71 ng/ml
RT: 2.114 min Scan# 318
Delta R.T. -0.007 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion: 93 Resp: 581

Ion	Ratio	Lower	Upper
93	100		
63	92.3	73.0	109.6

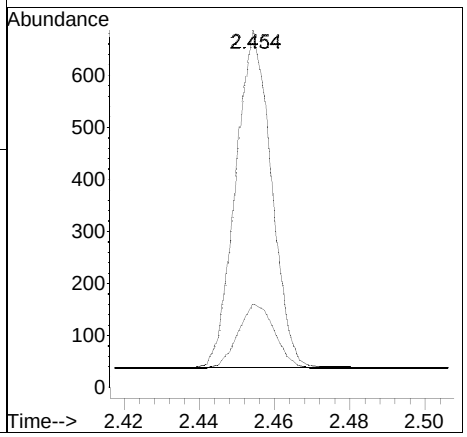


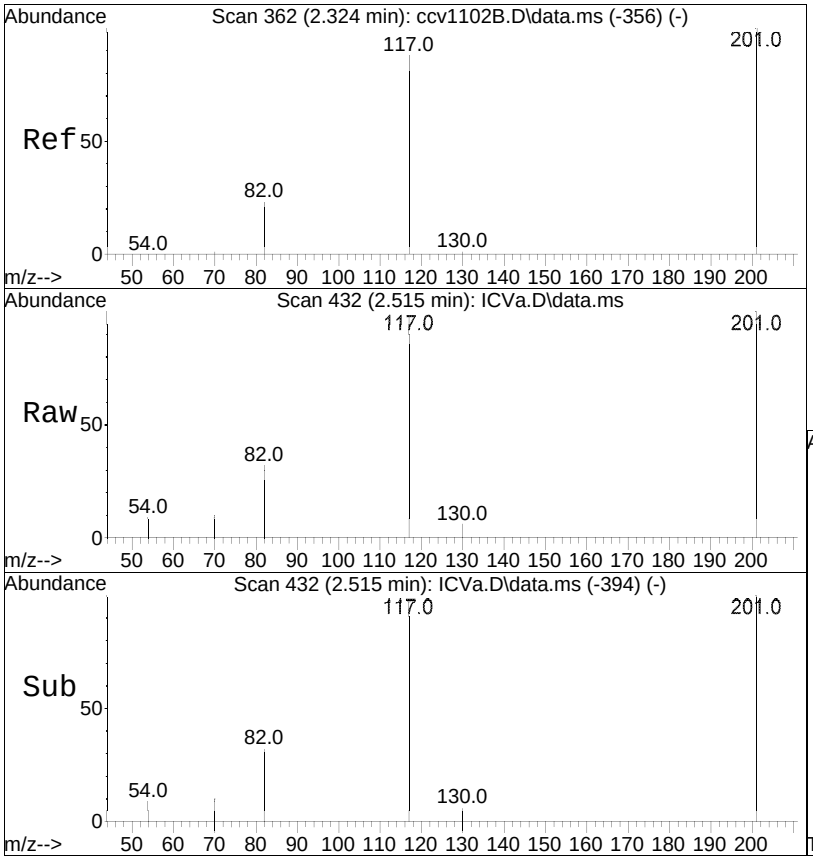


#5
n-nitrosodi-n-propylamine
Concen: 997.96 ng/ml M7
RT: 2.454 min Scan# 412
Delta R.T. -0.007 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion: 70 Resp: 422

Ion	Ratio	Lower	Upper
70	100		
130	19.4	14.6	21.8

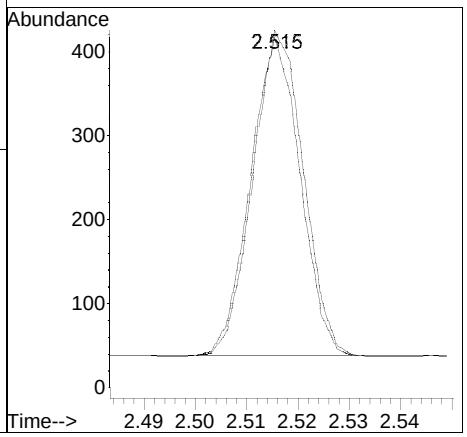


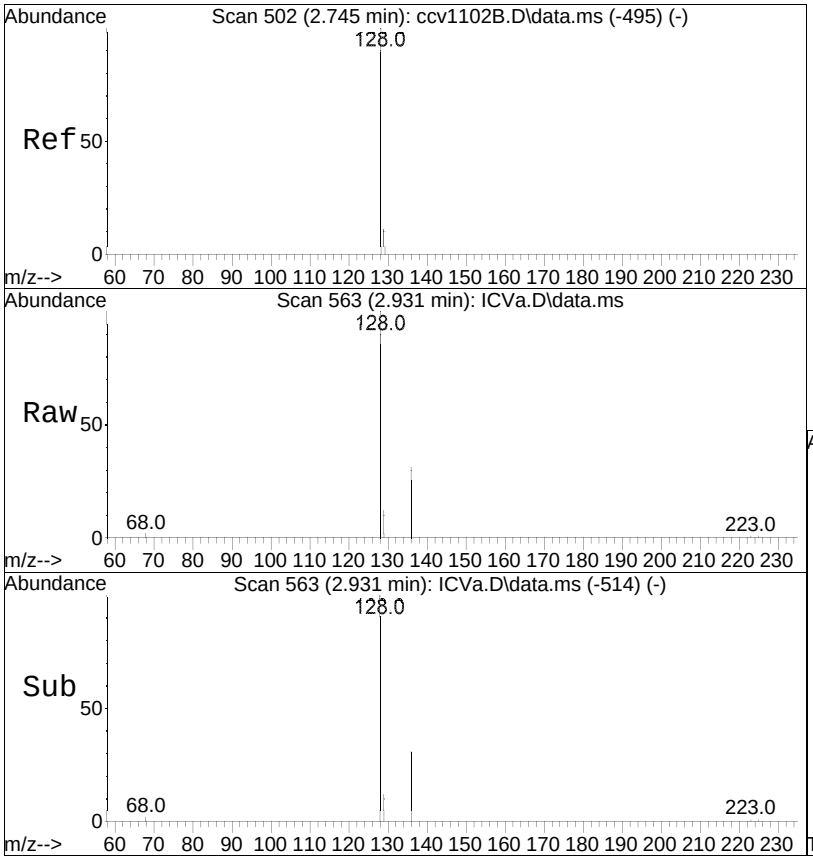


#6
Hexachloroethane
Concen: 1002.02 ng/ml
RT: 2.515 min Scan# 432
Delta R.T. -0.004 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:117 Resp: 252

Ion	Ratio	Lower	Upper
117	100		
201	104.8	91.5	137.3

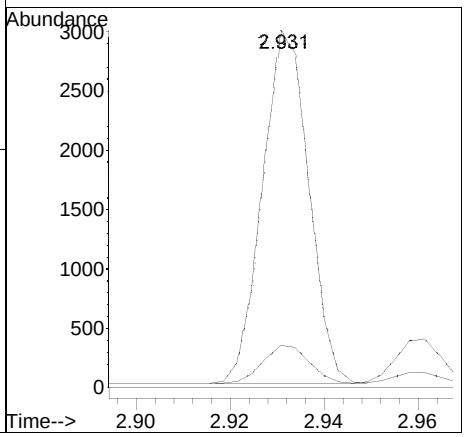


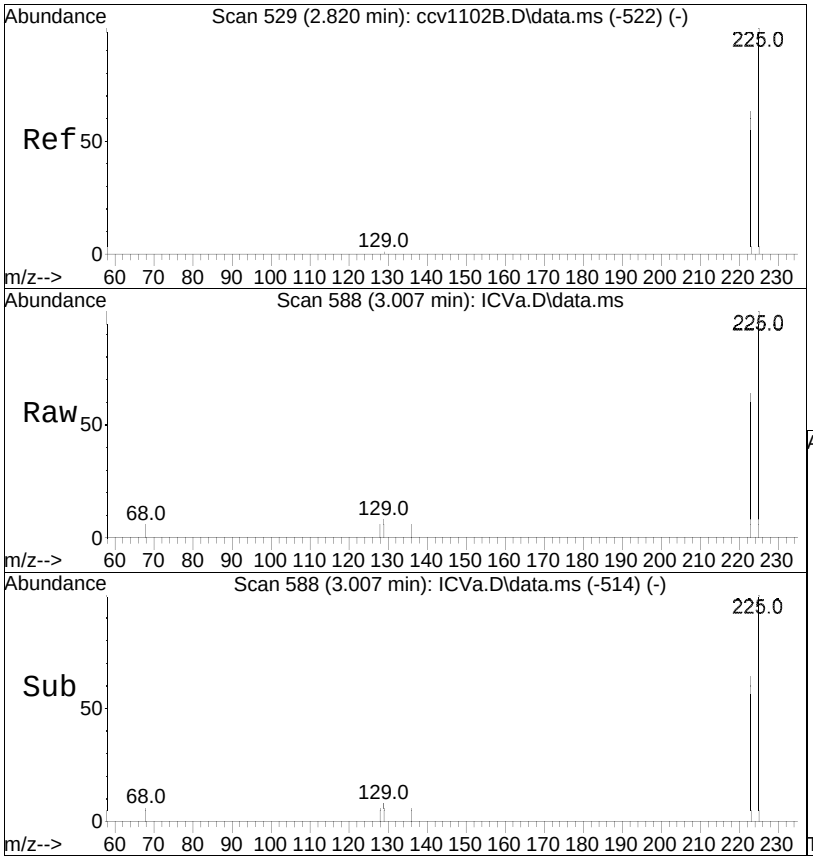


#9
Naphthalene
Concen: 1020.17 ng/ml
RT: 2.931 min Scan# 563
Delta R.T. -0.003 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:128 Resp: 2016

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	0.0	0.0	0.0

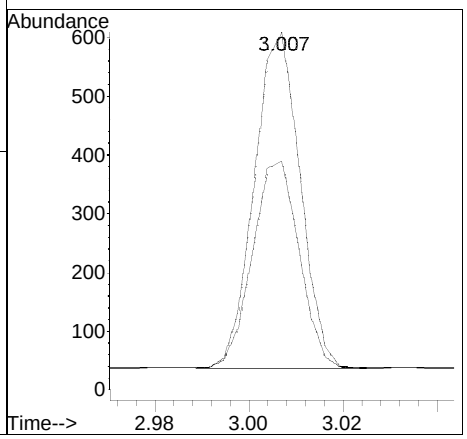


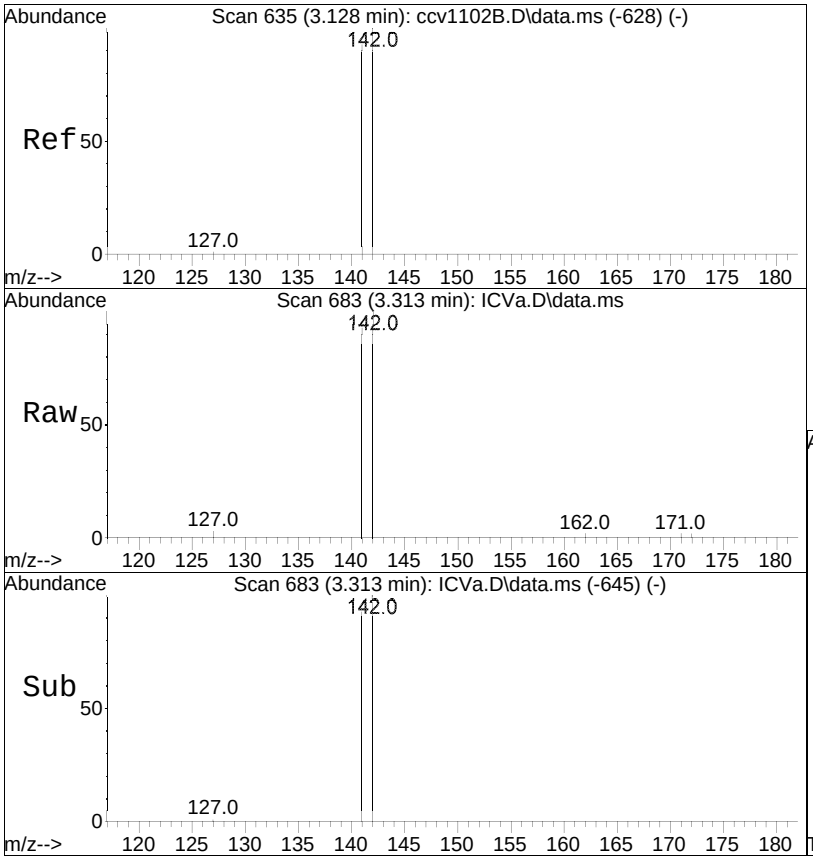


#10
Hexachlorobutadiene
Concen: 1030.72 ng/ml
RT: 3.007 min Scan# 588
Delta R.T. -0.001 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:225 Resp: 383

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.6	75.8

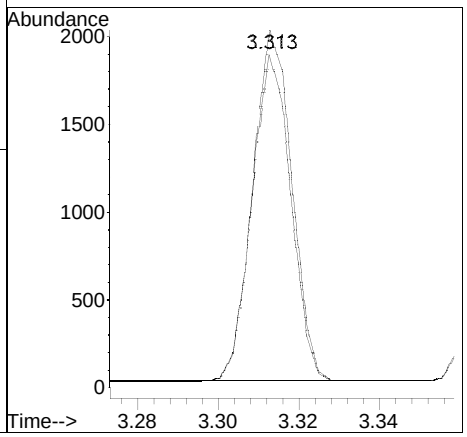


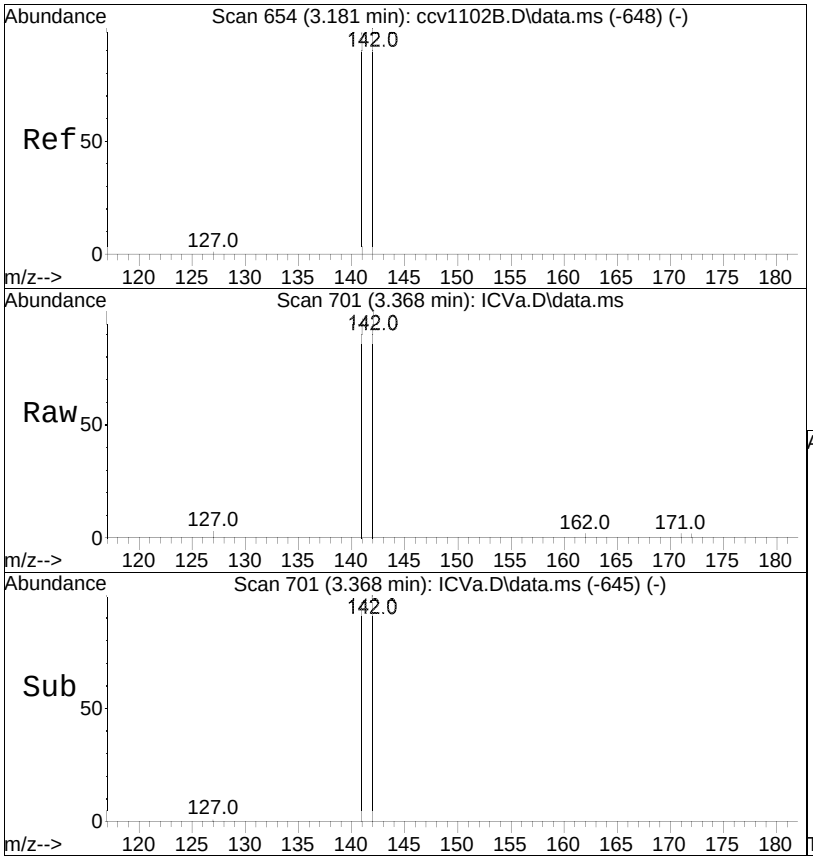


#11
2-Methylnaphthalene
Concen: 1007.55 ng/ml
RT: 3.313 min Scan# 683
Delta R.T. -0.003 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:142 Resp: 1329

Ion	Ratio	Lower	Upper
142	100		
141	92.6	75.0	112.4

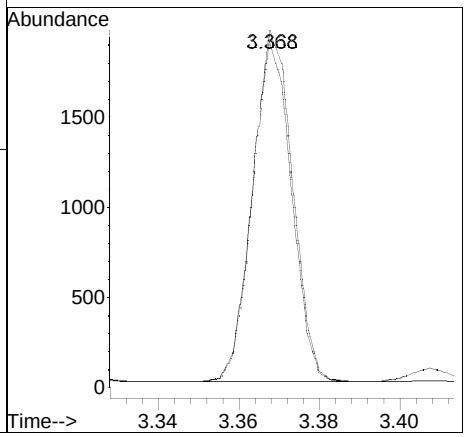


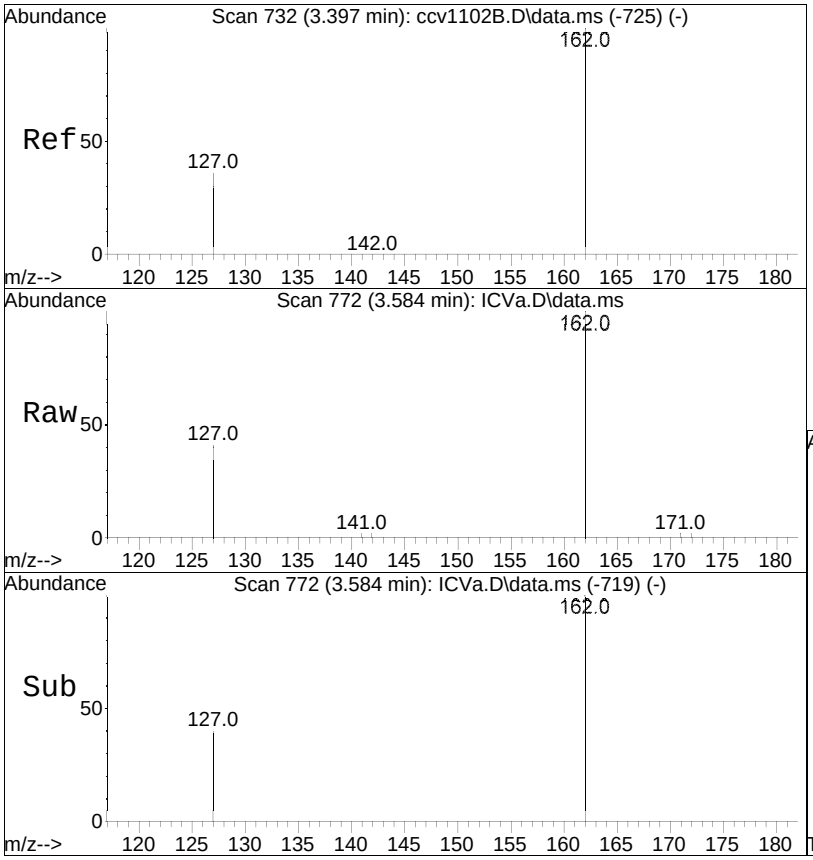


#12
1-Methylnaphthalene
Concen: 1065.41 ng/ml
RT: 3.368 min Scan# 701
Delta R.T. -0.003 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:142 Resp: 1302

Ion	Ratio	Lower	Upper
142	100		
141	96.1	76.7	115.1

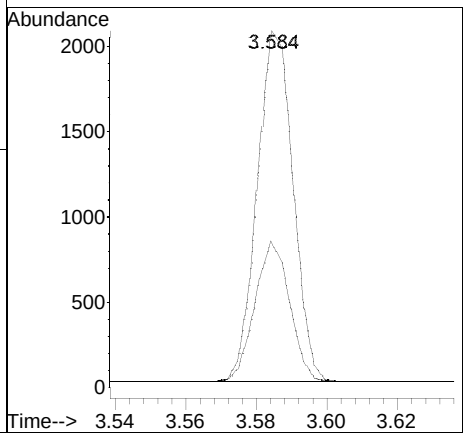


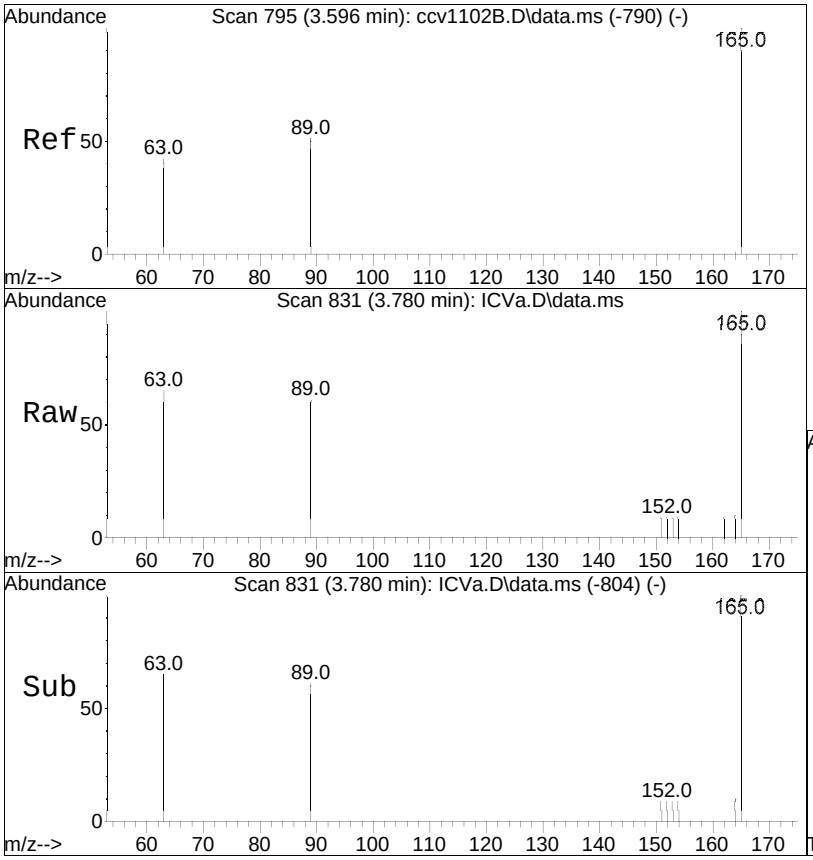


#14
2-Chloronaphthalene
Concen: 1044.28 ng/ml
RT: 3.584 min Scan# 772
Delta R.T. -0.001 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:162 Resp: 1428

Ion	Ratio	Lower	Upper
162	100		
127	38.7	28.7	43.1

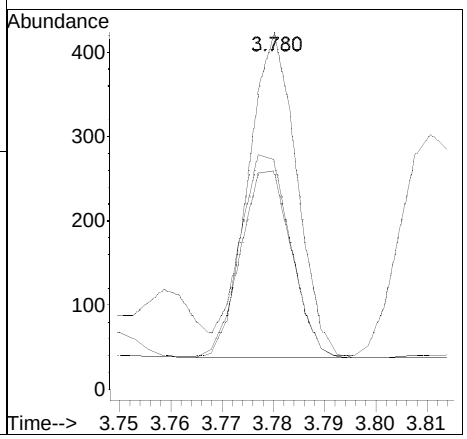


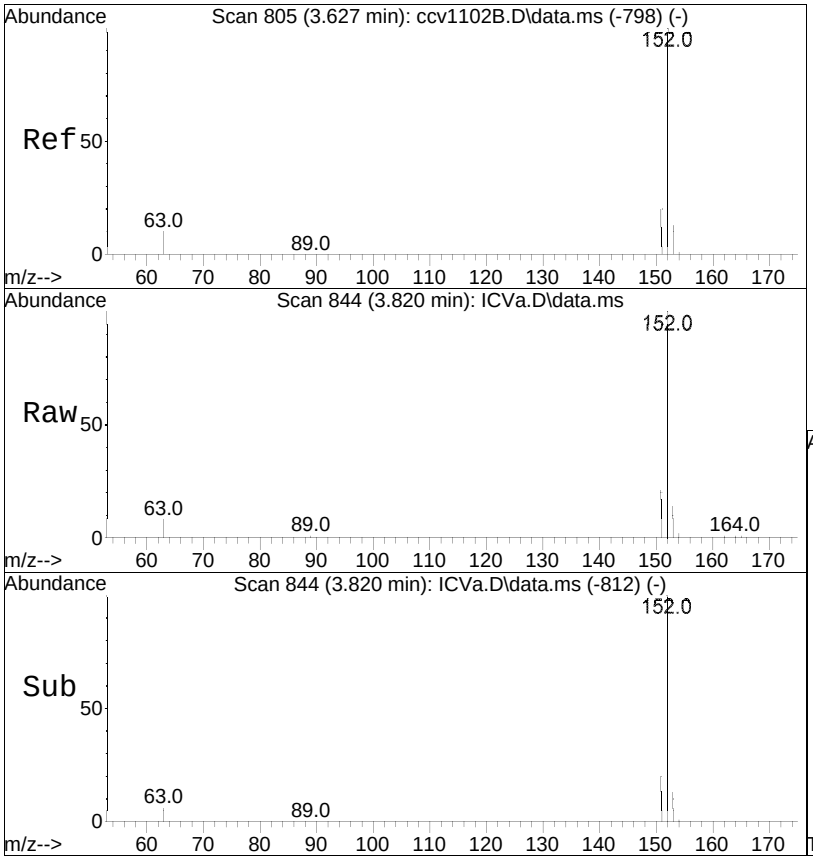


#15
2,6-Dinitrotoluene
Concen: 919.07 ng/ml M4
RT: 3.780 min Scan# 831
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:165 Resp: 251

Ion	Ratio	Lower	Upper
165	100		
89	61.0	45.0	67.6
63	64.9	46.2	69.2

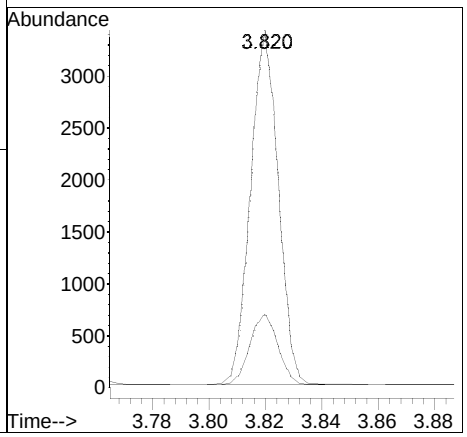


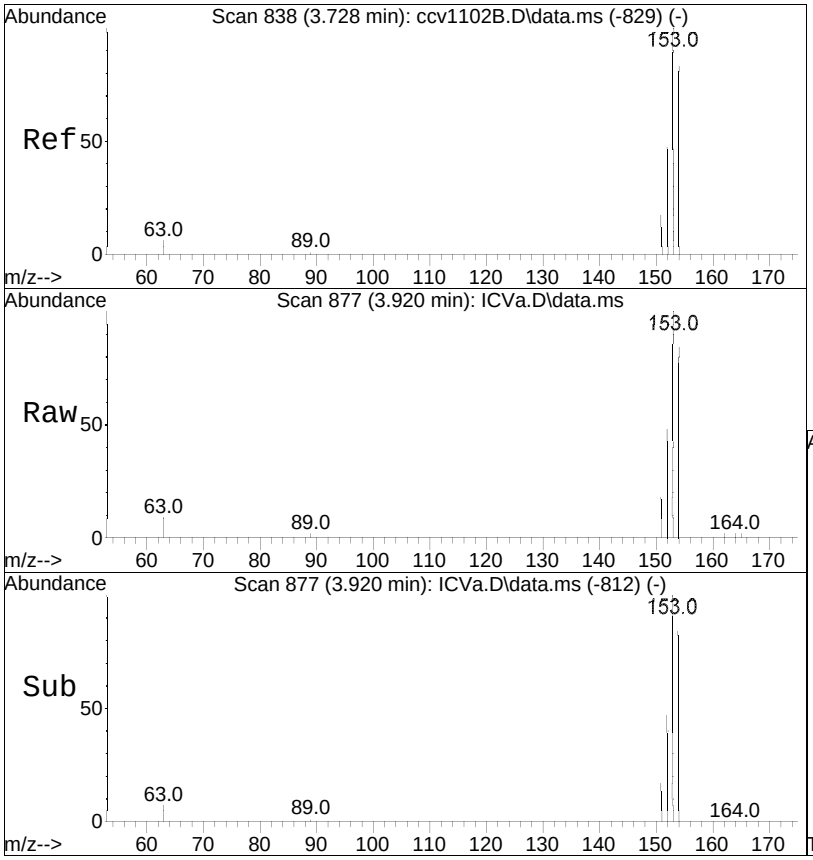


#16
Acenaphthylene
Concen: 1052.49 ng/ml
RT: 3.820 min Scan# 844
Delta R.T. -0.000 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:152 Resp: 2292

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.1	24.1

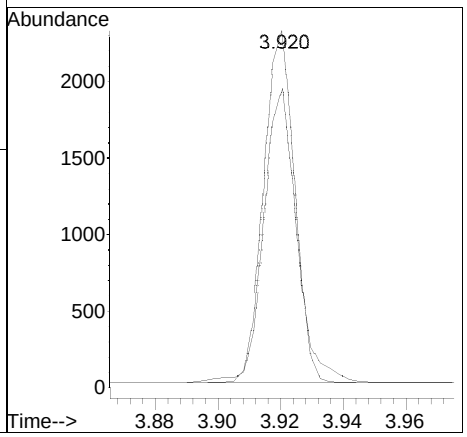


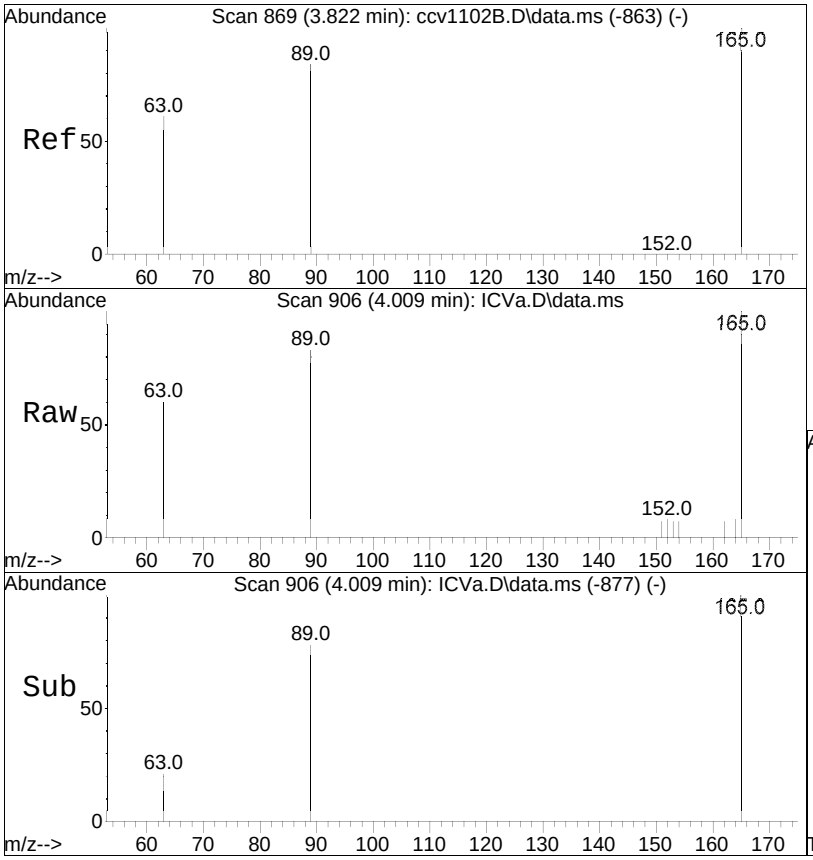


#18
Acenaphthene
Concen: 1001.12 ng/ml
RT: 3.920 min Scan# 877
Delta R.T. 0.002 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:153 Resp: 1560

Ion	Ratio	Lower	Upper
153	100		
154	89.2	67.4	101.2

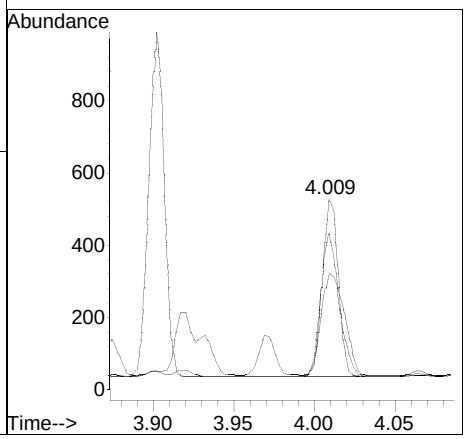


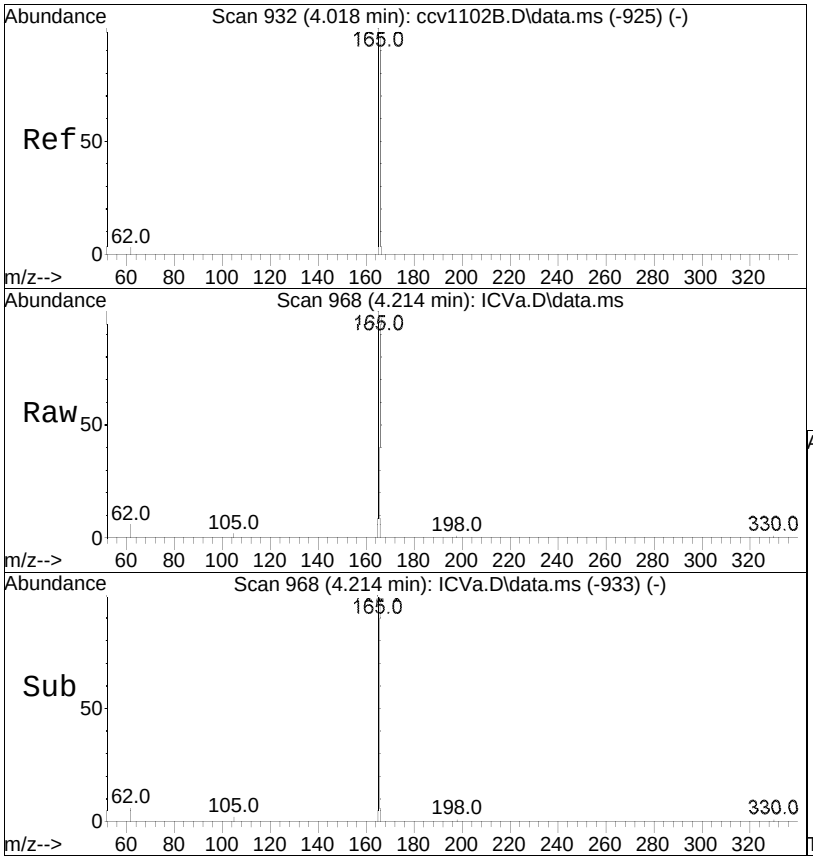


#19
2,4-Dinitrotoluene
Concen: 891.39 ng/ml
RT: 4.009 min Scan# 906
Delta R.T. -0.001 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:165 Resp: 333

Ion	Ratio	Lower	Upper
165	100		
89	93.4	71.4	107.2
63	84.1	67.9	101.9

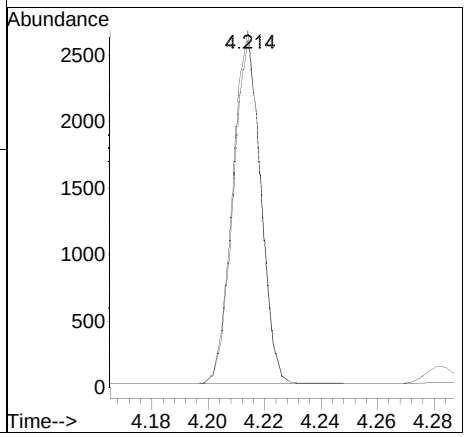


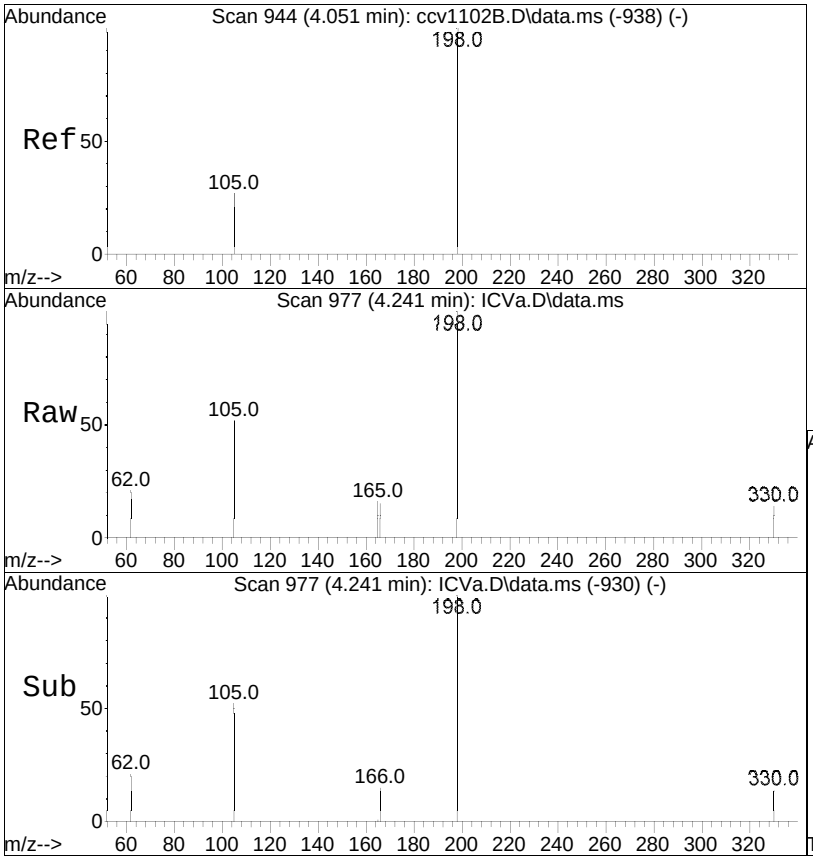


#20
Fluorene
Concen: 1026.25 ng/ml
RT: 4.214 min Scan# 968
Delta R.T. 0.002 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:166 Resp: 1745

Ion	Ratio	Lower	Upper
166	100		
165	106.5	82.7	124.1

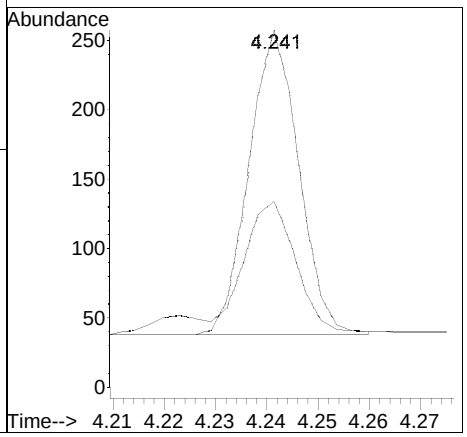


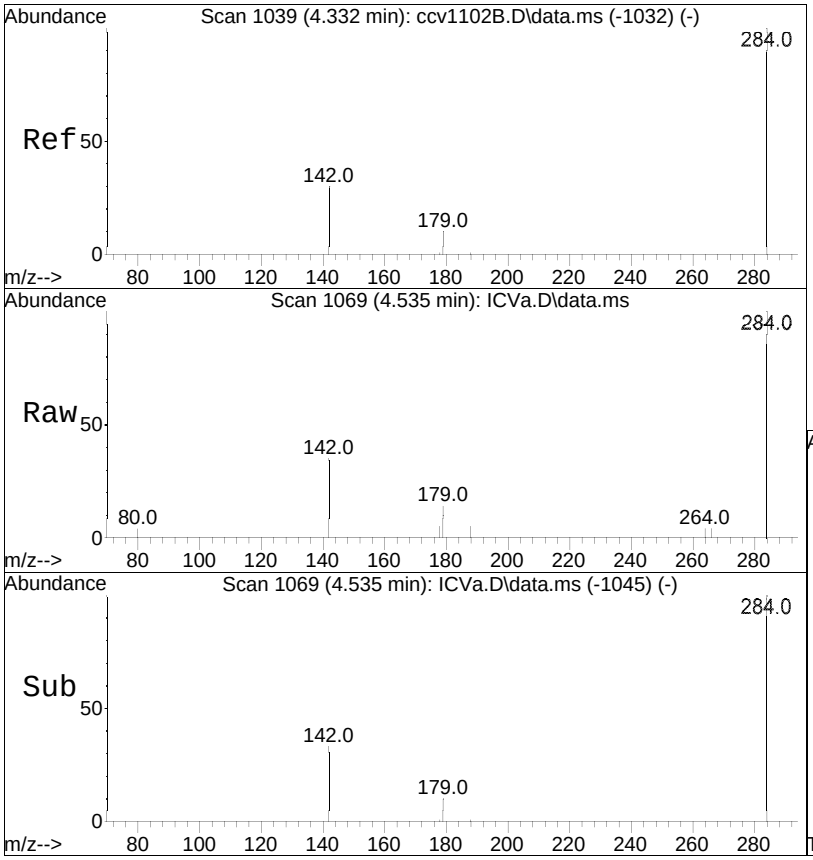


#23
4,6-Dinitro-o-cresol
Concen: 724.00 ng/ml M6
RT: 4.241 min Scan# 977
Delta R.T. -0.002 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:198 Resp: 147

Ion	Ratio	Lower	Upper
198	100		
105	43.5	26.7	40.1#

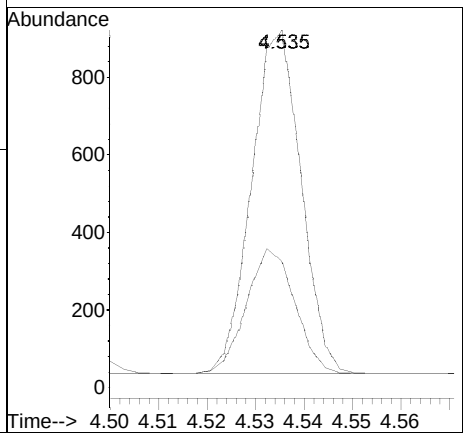


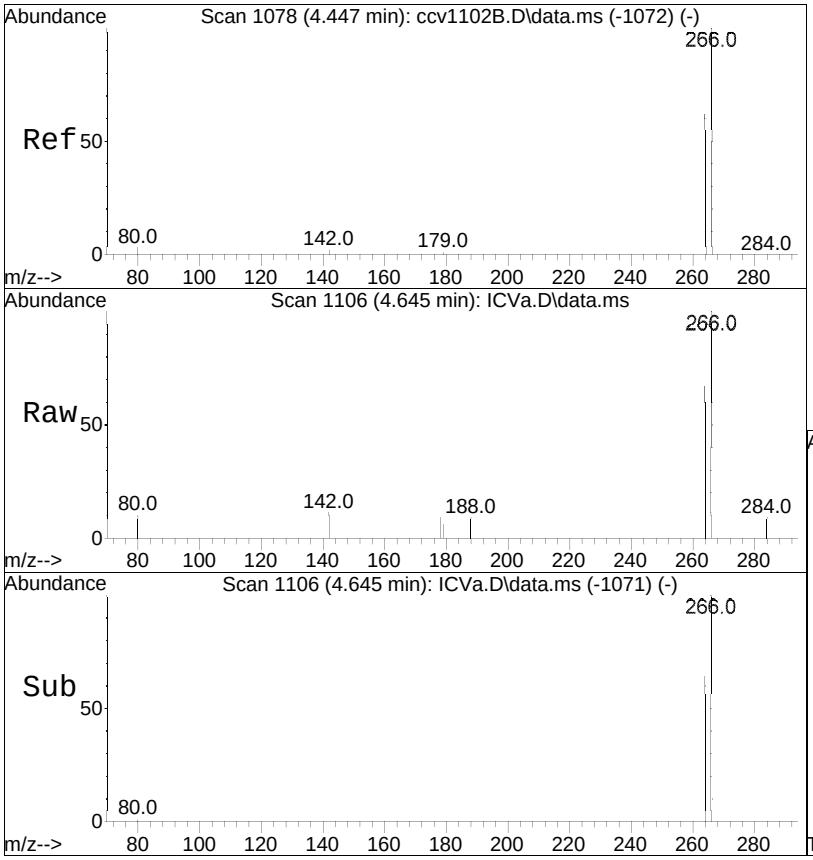


#24
Hexachlorobenzene
Concen: 953.09 ng/ml M6
RT: 4.535 min Scan# 1069
Delta R.T. 0.002 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:284 Resp: 617

Ion	Ratio	Lower	Upper
284	100		
142	35.8	26.6	40.0

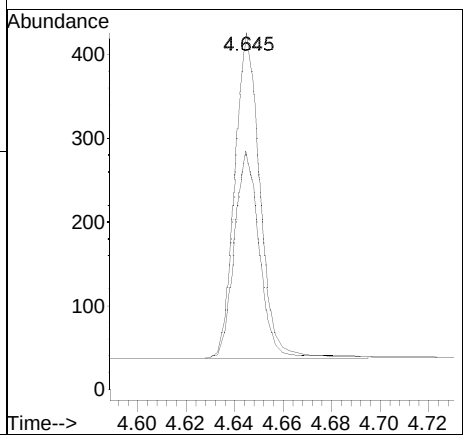


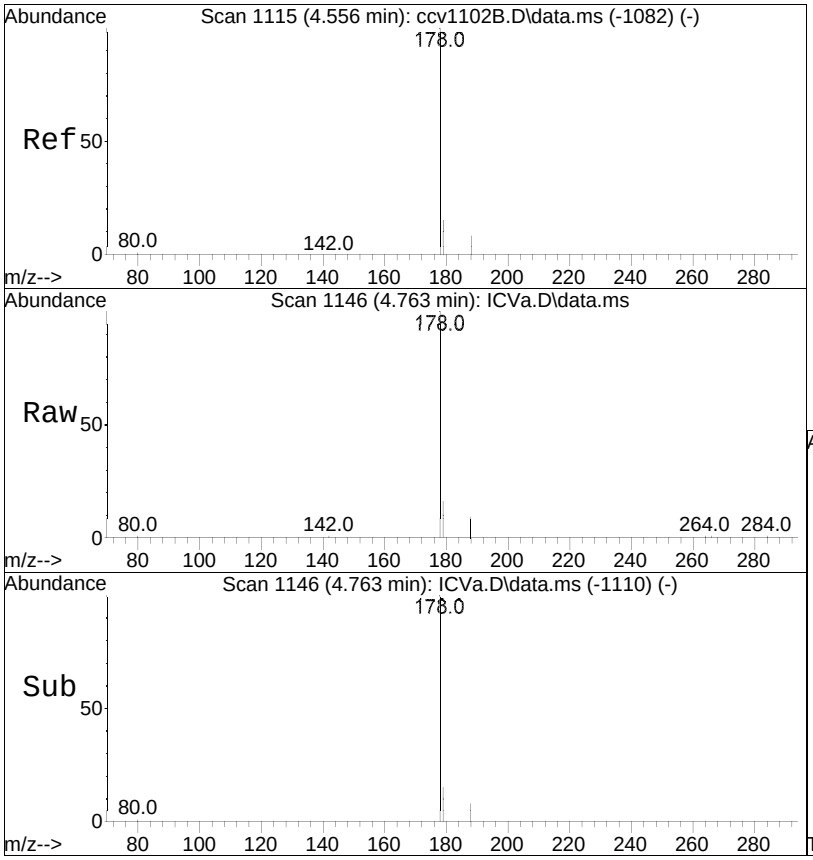


#25
Pentachlorophenol
Concen: 703.08 ng/ml
RT: 4.645 min Scan# 1106
Delta R.T. 0.002 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:266 Resp: 283

Ion	Ratio	Lower	Upper
266	100		
264	62.9	49.8	74.8

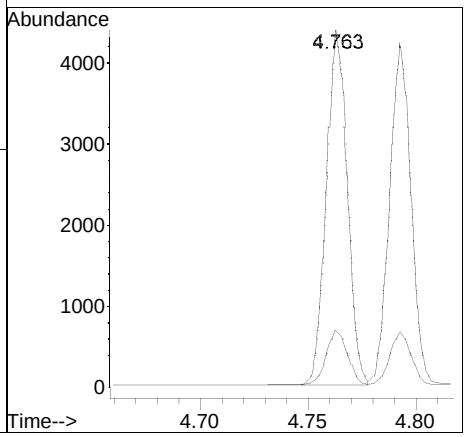


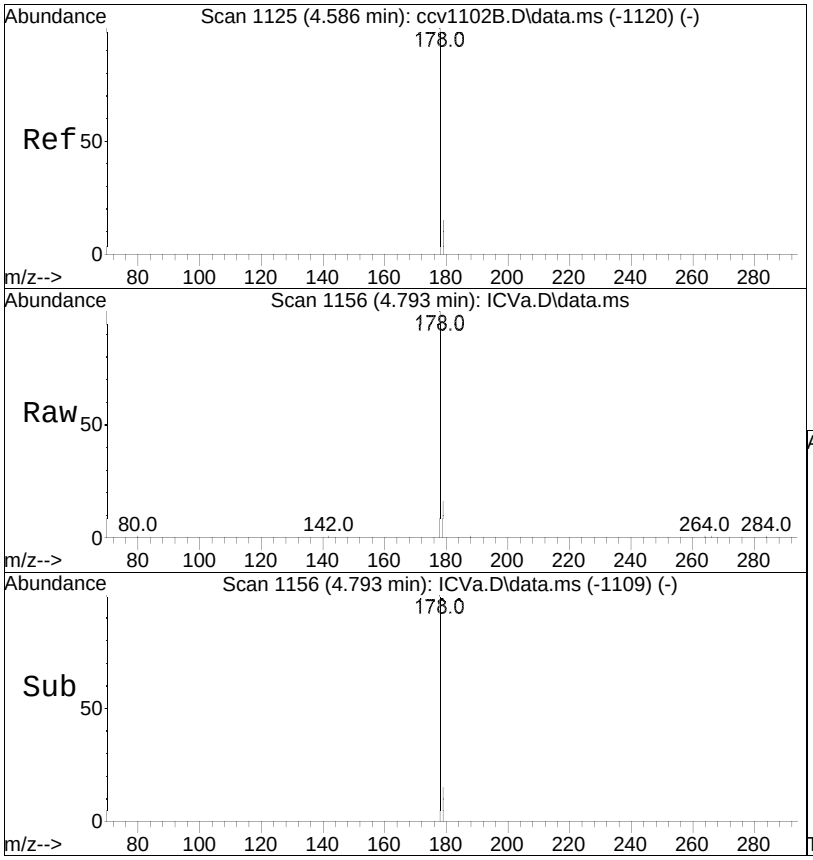


#26
Phenanthrene
Concen: 980.20 ng/ml
RT: 4.763 min Scan# 1146
Delta R.T. -0.001 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:178 Resp: 2946

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.4	18.6

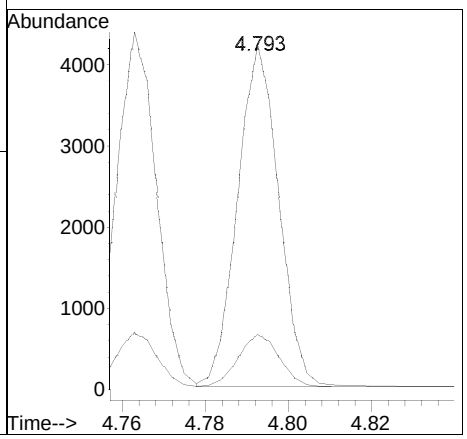


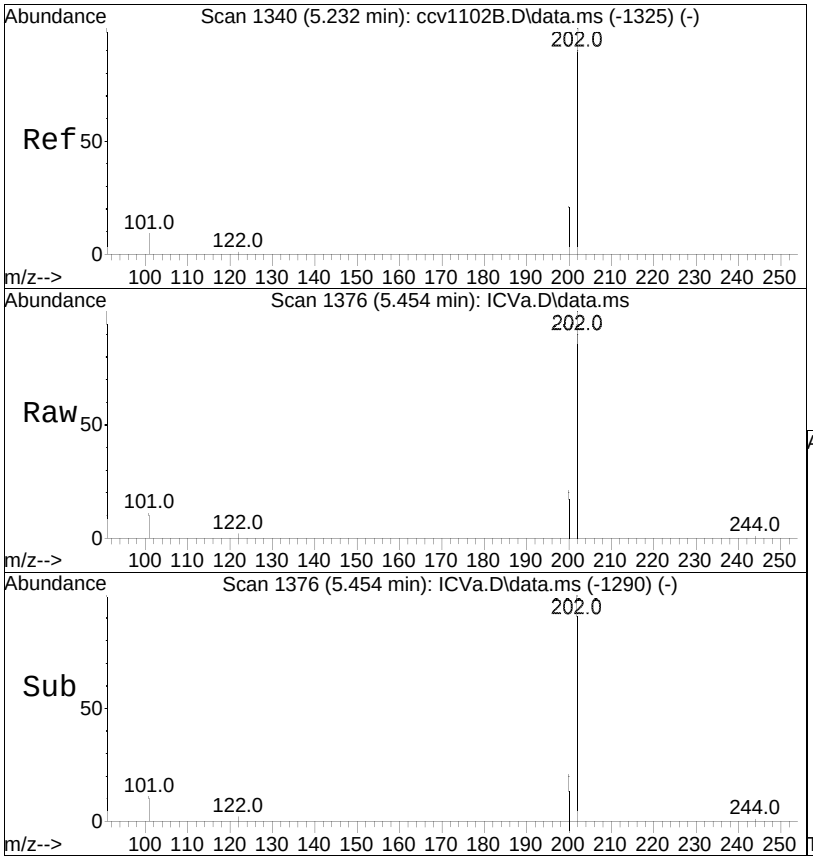


#27
Anthracene
Concen: 986.36 ng/ml M6
RT: 4.793 min Scan# 1156
Delta R.T. 0.003 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:178 Resp: 2885

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.6	19.0

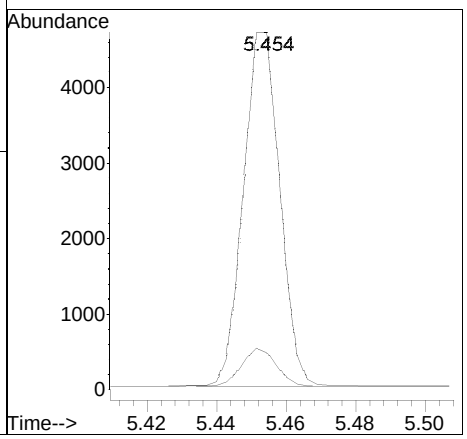


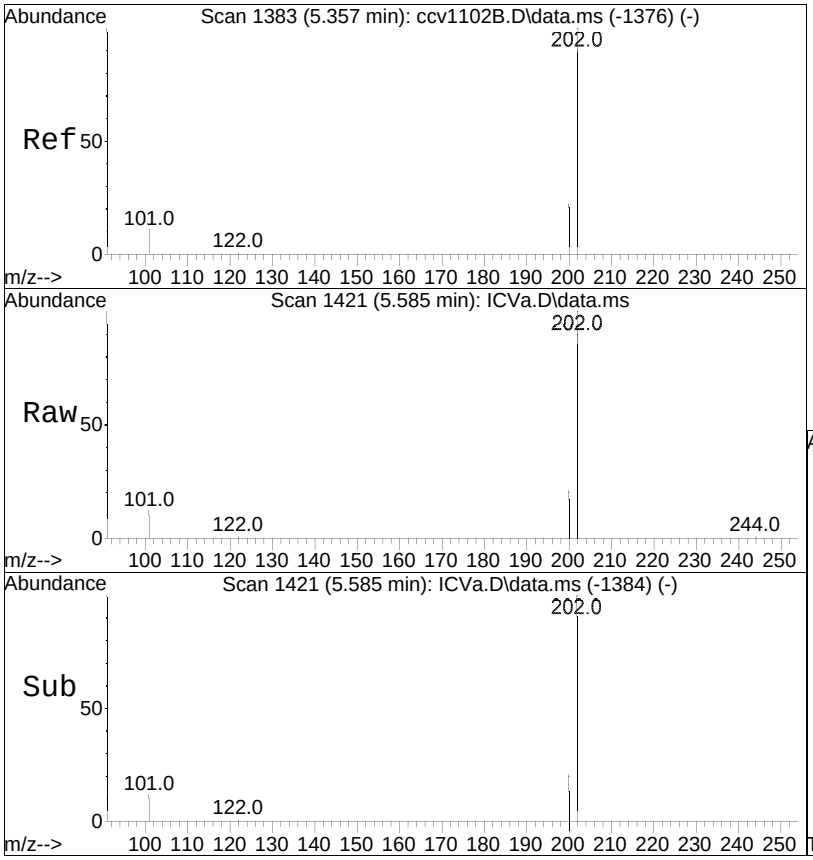


#28
Fluoranthene
Concen: 971.11 ng/ml M6
RT: 5.454 min Scan# 1376
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:202 Resp: 3391

Ion	Ratio	Lower	Upper
202	100		
101	10.5	7.0	10.6

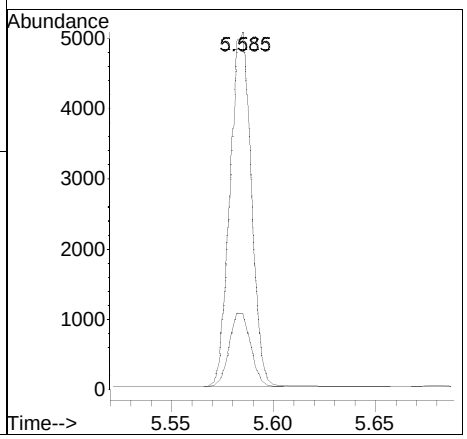


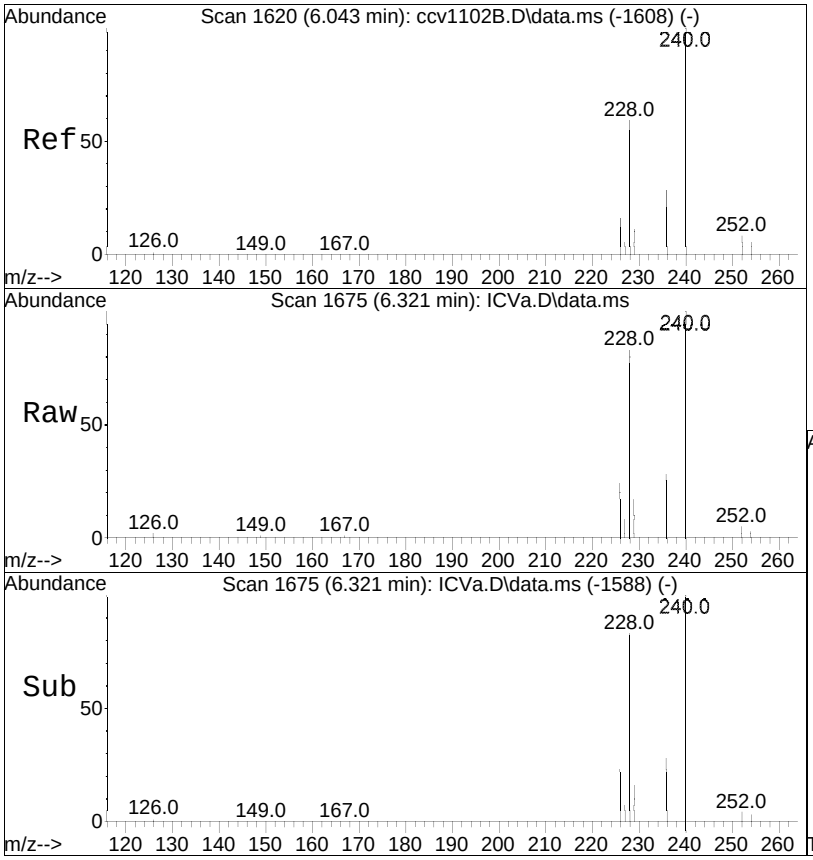


#29
Pyrene
Concen: 1002.20 ng/ml
RT: 5.585 min Scan# 1421
Delta R.T. 0.002 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:202 Resp: 3622

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4

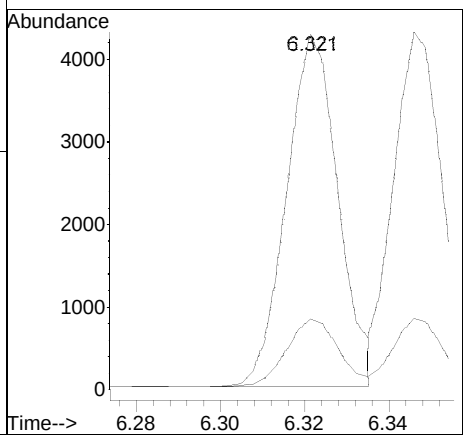


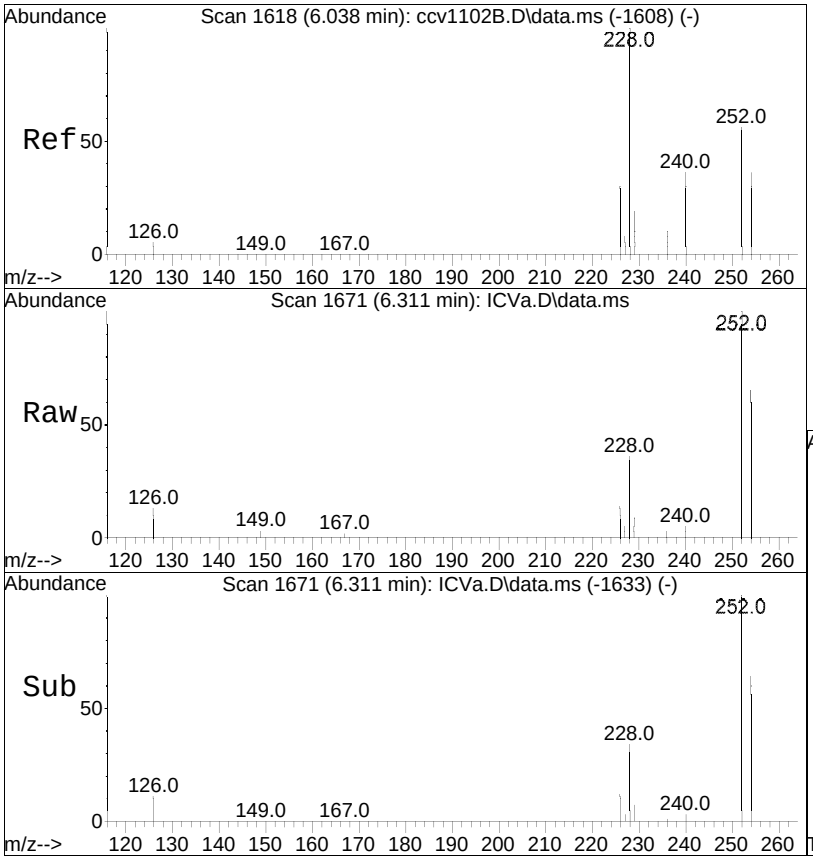


#32
Benzo[a]anthracene
Concen: 914.46 ng/ml
RT: 6.321 min Scan# 1675
Delta R.T. -0.001 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:228 Resp: 3629

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.7	23.5

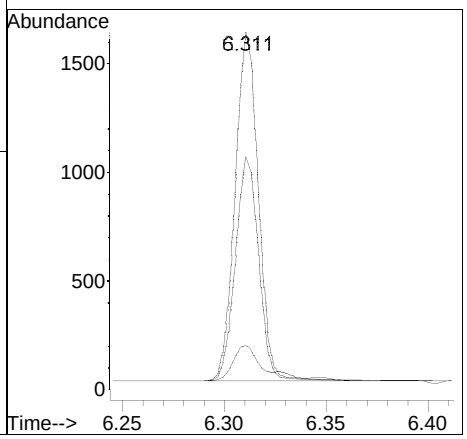


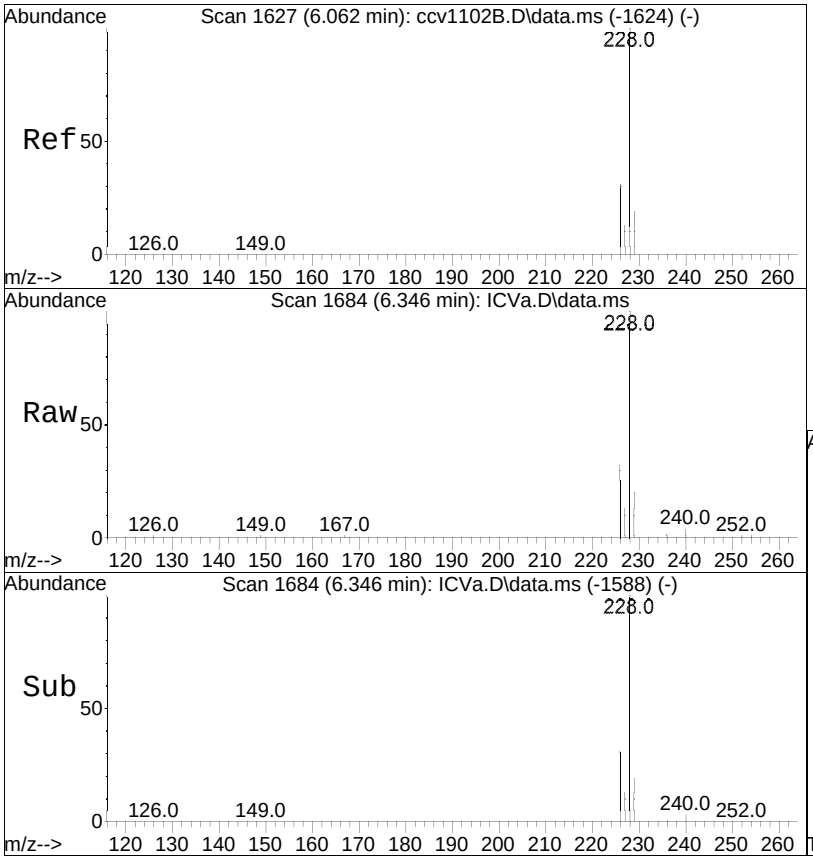


#33
3,3'-Dichlorobenzidine
Concen: 848.25 ng/ml
RT: 6.311 min Scan# 1671
Delta R.T. 0.003 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:252 Resp: 1268

Ion	Ratio	Lower	Upper
252	100		
126	14.0	9.1	13.7#
254	65.1	51.6	77.4

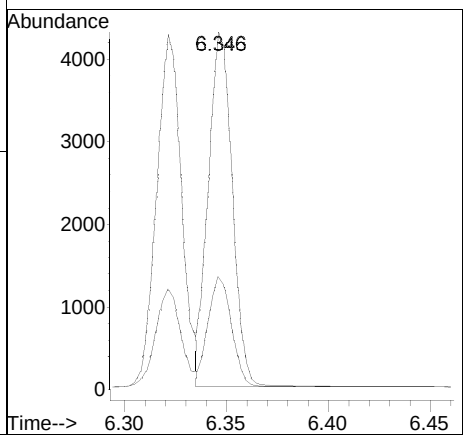


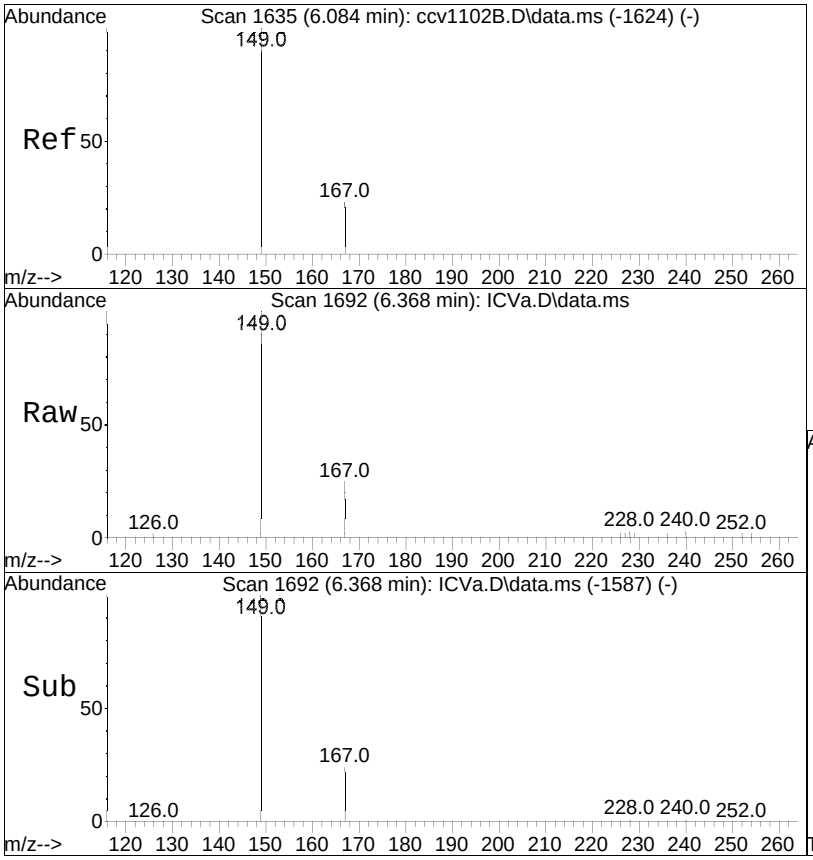


#34
Chrysene
Concen: 941.59 ng/ml
RT: 6.346 min Scan# 1684
Delta R.T. 0.002 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:228 Resp: 3482

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0

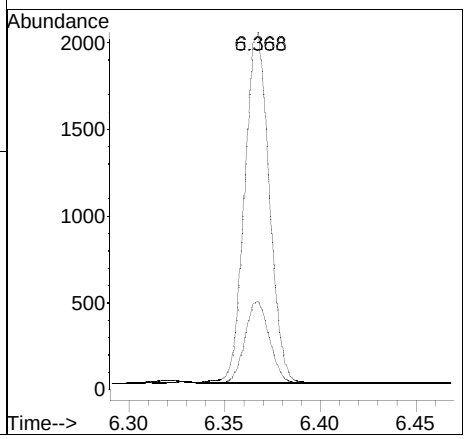


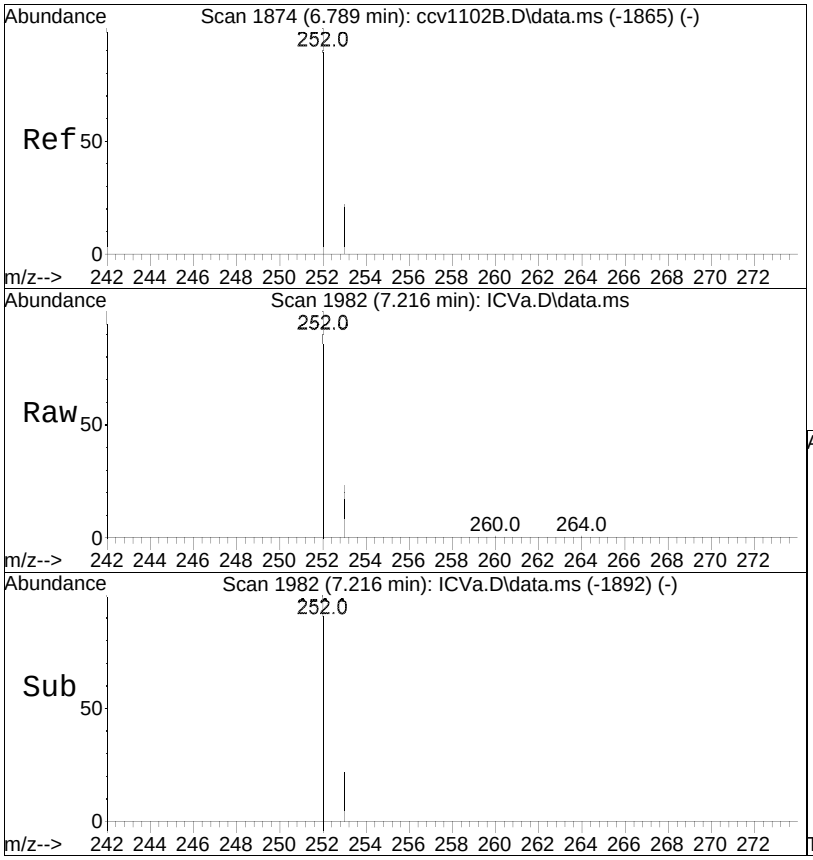


#35
Bis(2-ethylhexyl)phthalate
Concen: 763.86 ng/ml
RT: 6.368 min Scan# 1692
Delta R.T. 0.002 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:149 Resp: 1783

Ion	Ratio	Lower	Upper
149	100		
167	23.2	18.7	28.1

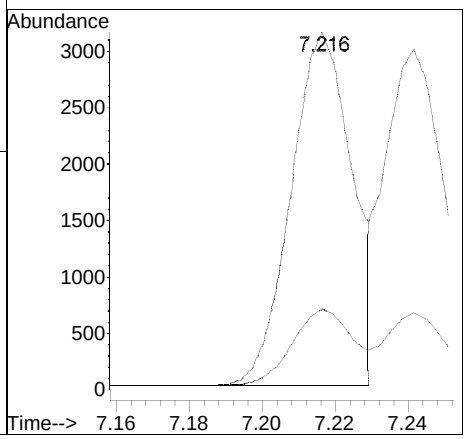


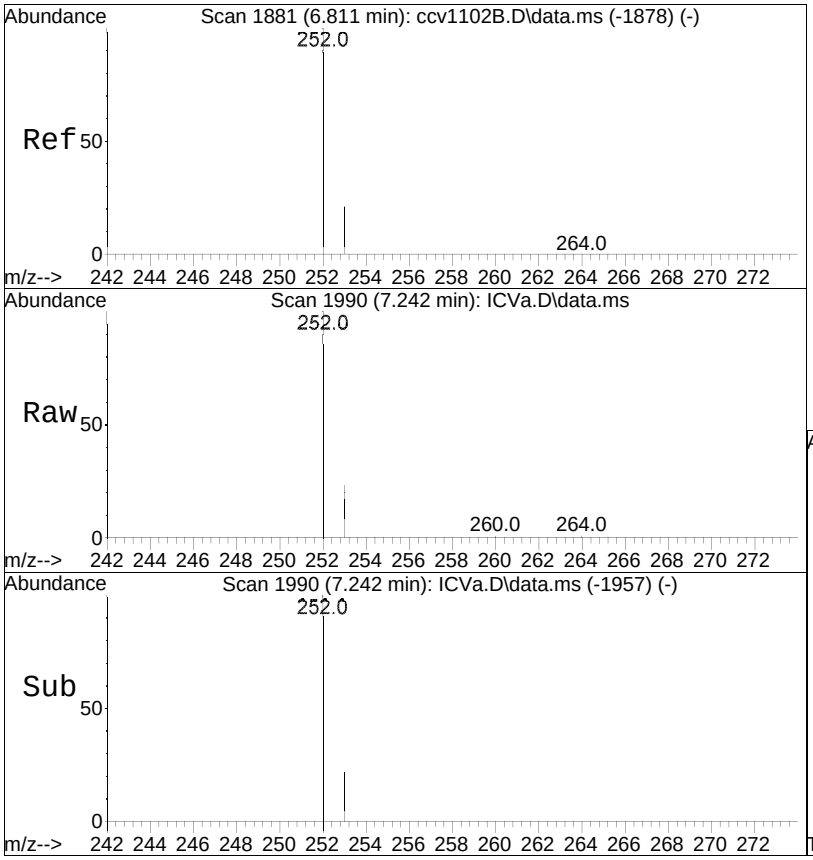


#37
Benzo[b]fluoranthene
Concen: 949.44 ng/ml M6
RT: 7.216 min Scan# 1982
Delta R.T. 0.004 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:252 Resp: 3675

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.0

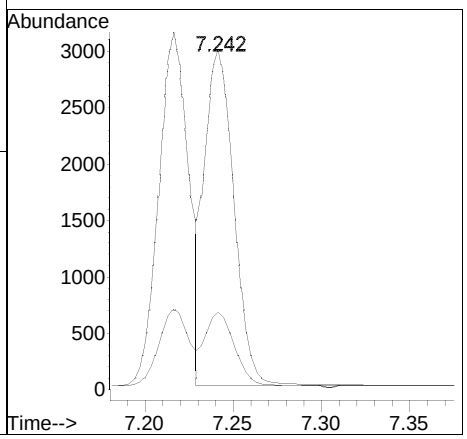


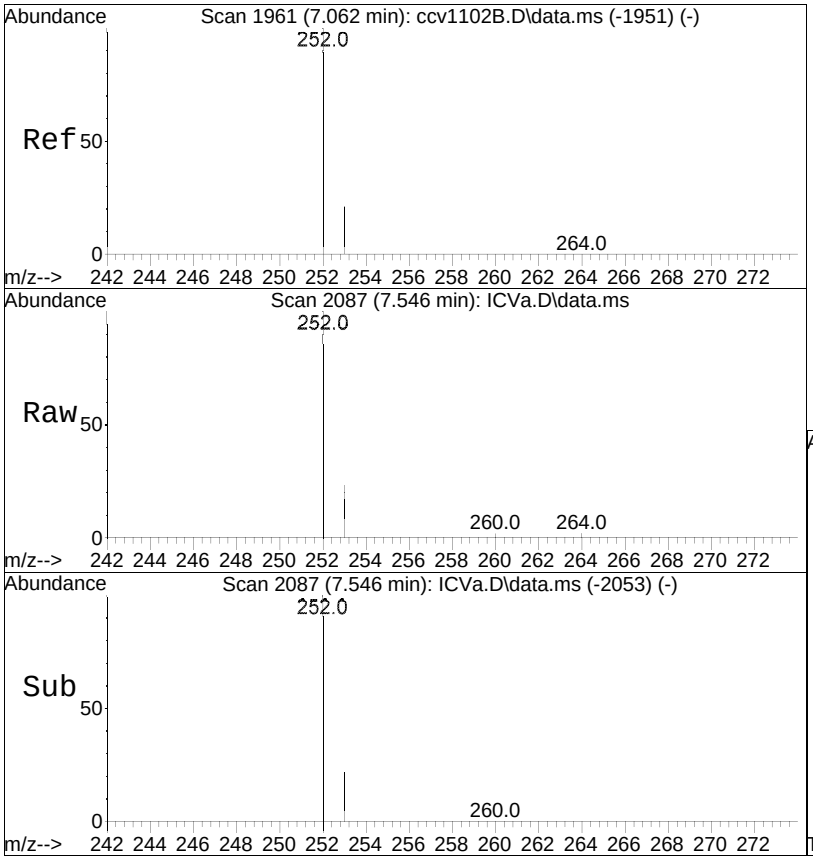


#38
Benzo[k]fluoranthene
Concen: 953.62 ng/ml
RT: 7.242 min Scan# 1990
Delta R.T. 0.005 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:252 Resp: 3416

Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.4	26.2

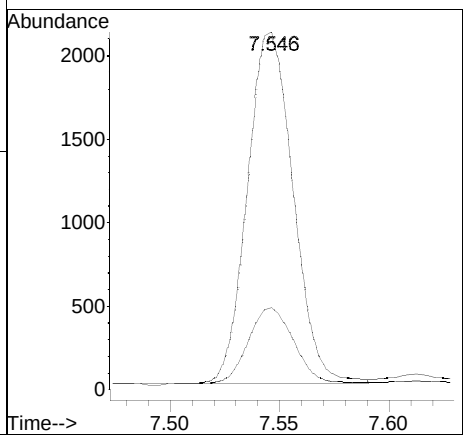


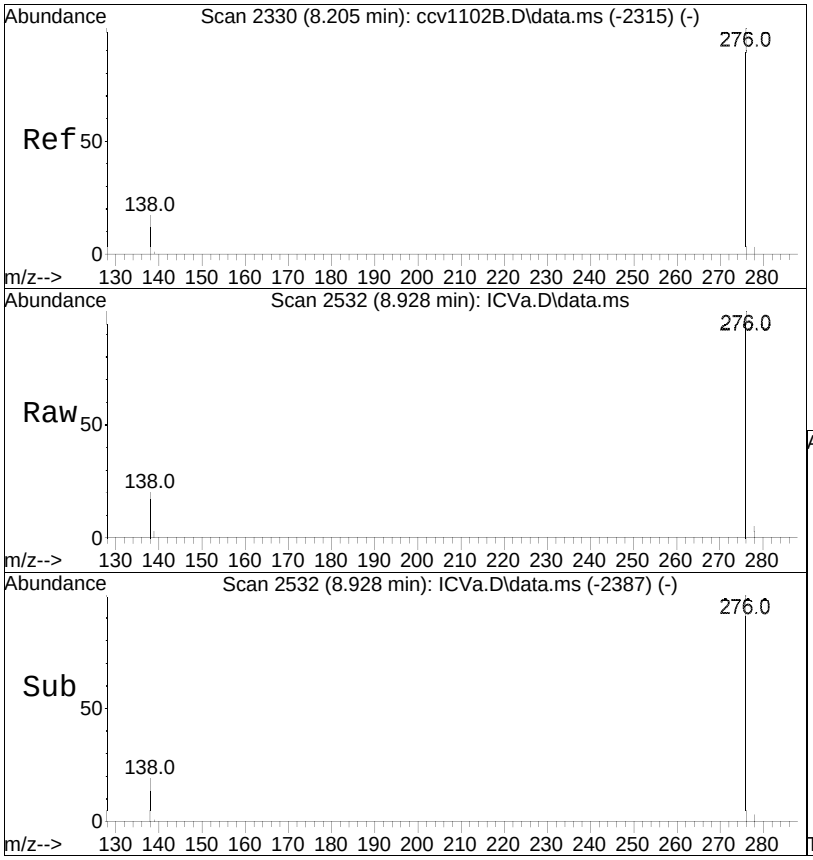


#39
Benzo[a]pyrene
Concen: 909.06 ng/ml M6
RT: 7.546 min Scan# 2087
Delta R.T. 0.008 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:252 Resp: 3022

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.3	25.9

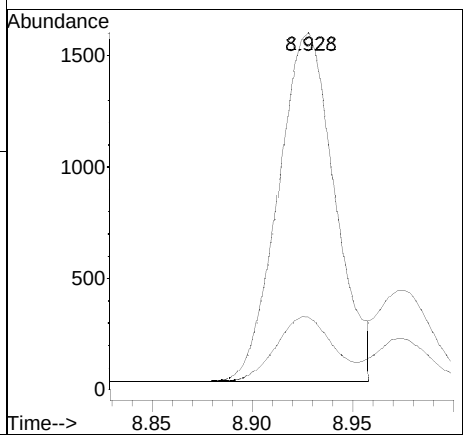


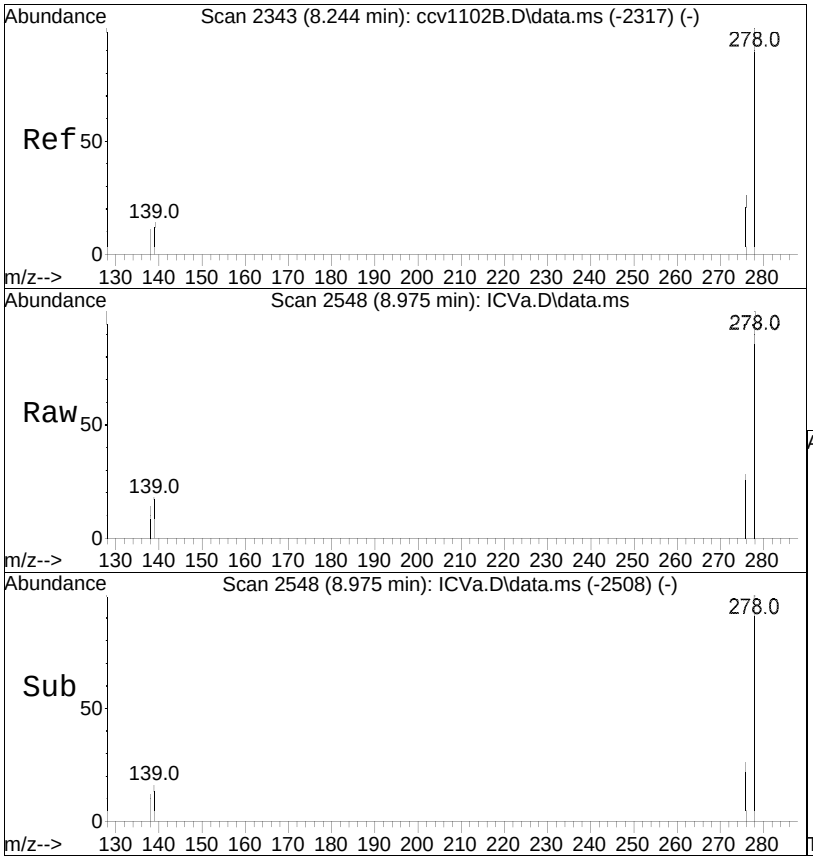


#40
Indeno[1,2,3-cd]pyrene
Concen: 920.39 ng/ml
RT: 8.928 min Scan# 2532
Delta R.T. 0.001 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:276 Resp: 3062

Ion	Ratio	Lower	Upper
276	100		
138	18.7	13.8	20.6

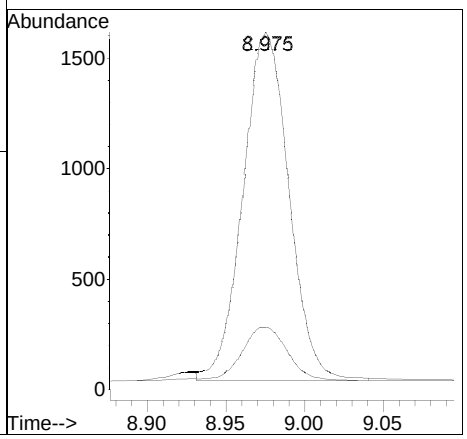


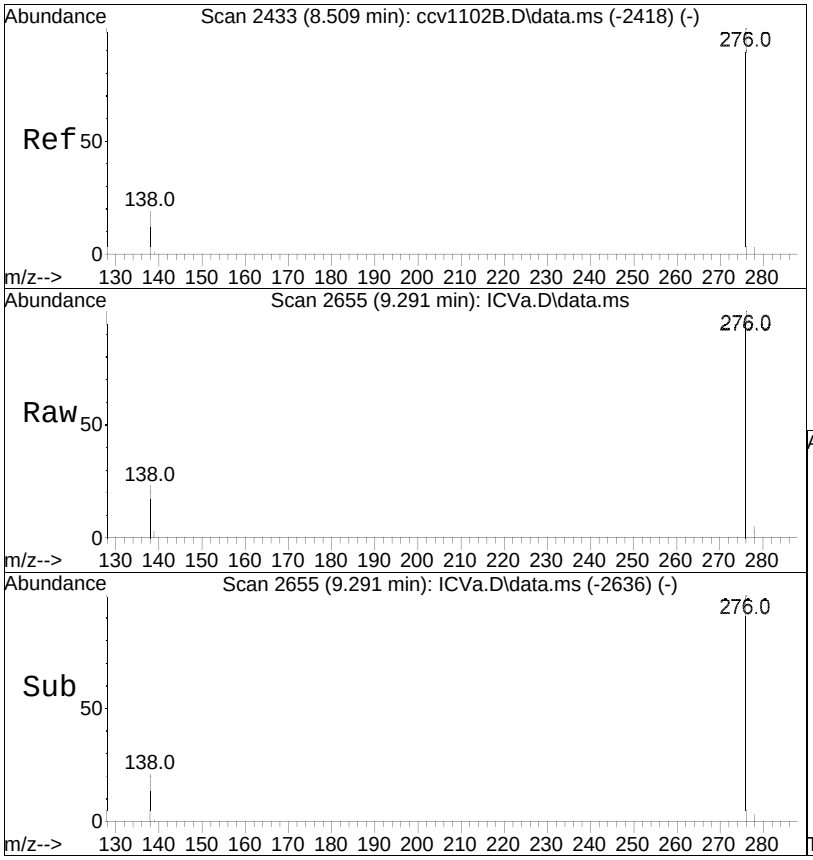


#41
Dibenzo[a,h]anthracene
Concen: 999.31 ng/ml M6
RT: 8.975 min Scan# 2548
Delta R.T. 0.019 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:278 Resp: 3200

Ion	Ratio	Lower	Upper
278	100		
139	15.4	11.2	16.8

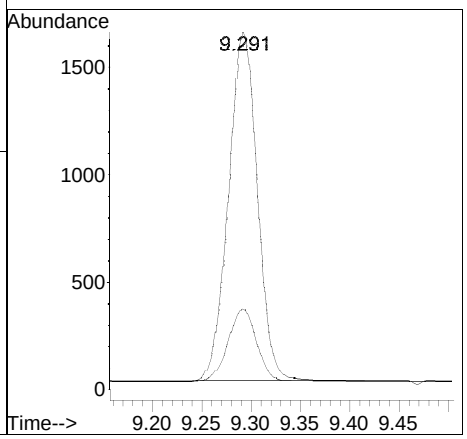




#42
Benzo[g,h,i]perylene
Concen: 957.66 ng/ml
RT: 9.291 min Scan# 2655
Delta R.T. -0.043 min
Lab File: ICVa.D
Acq: 05 Sep 2023 11:08 am

Tgt Ion:276 Resp: 3271

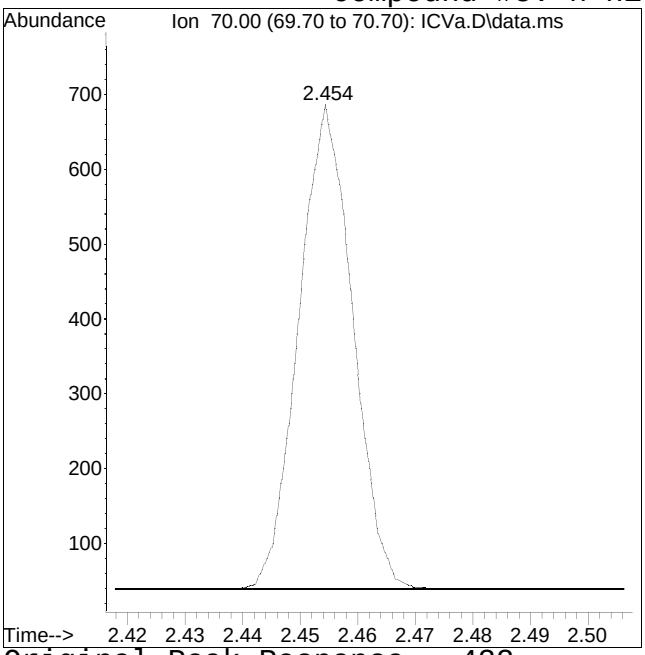
Ion	Ratio	Lower	Upper
276	100		
138	20.7	15.0	22.6



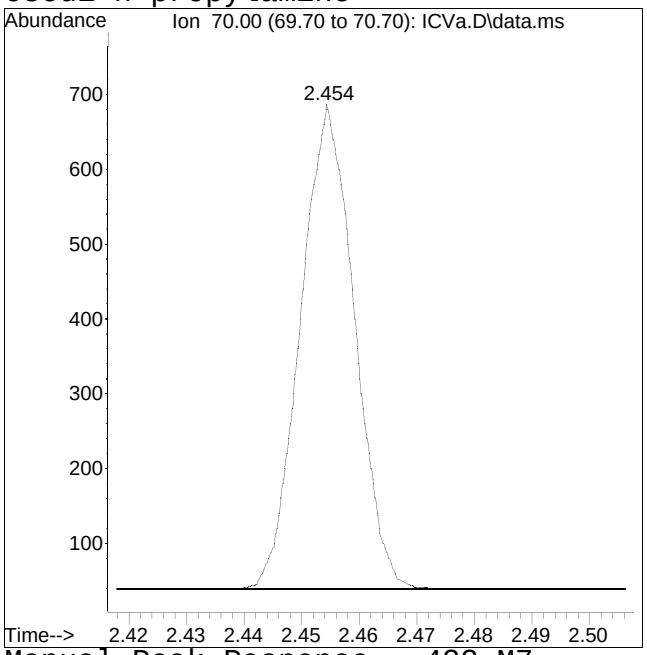
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : ICVa.D Operator : SV128:ah
Date Inj'd : 9/5/2023 11:08 am Instrument : SV128
Sample : CQICV,32,, 1.0 Lot#10193 Quant Date : 9/5/2023 11:58 am

Compound #5: n-nitrosodi-n-propylamine



Original Peak Response = 422



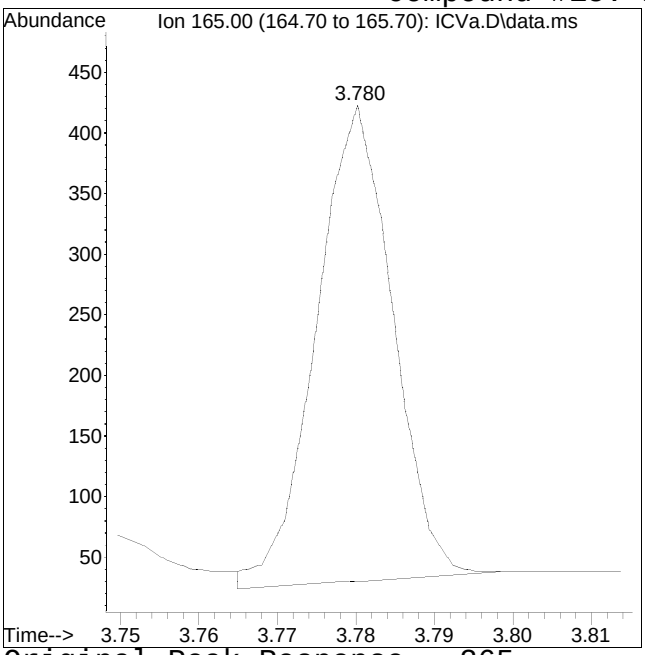
Manual Peak Response = 422 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

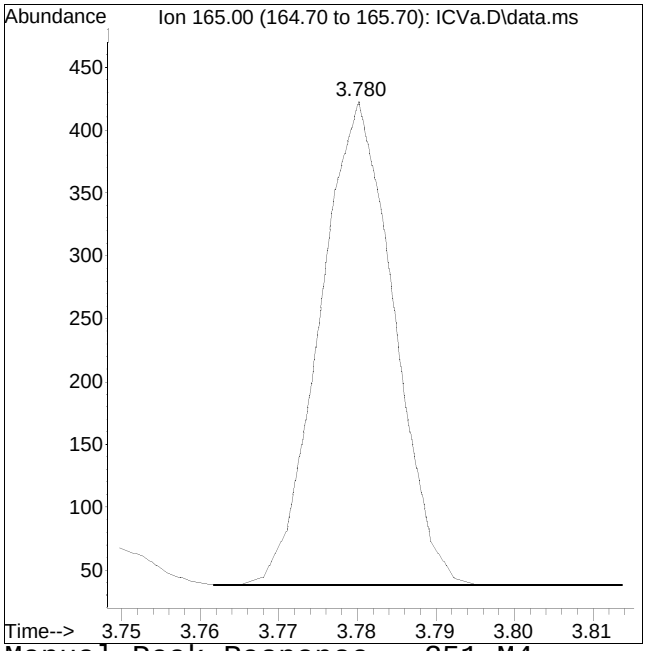
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : ICVa.D Operator : SV128:ah
Date Inj'd : 9/5/2023 11:08 am Instrument : SV128
Sample : CQICV,32,, 1.0 Lot#10193 Quant Date : 9/5/2023 11:58 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 265



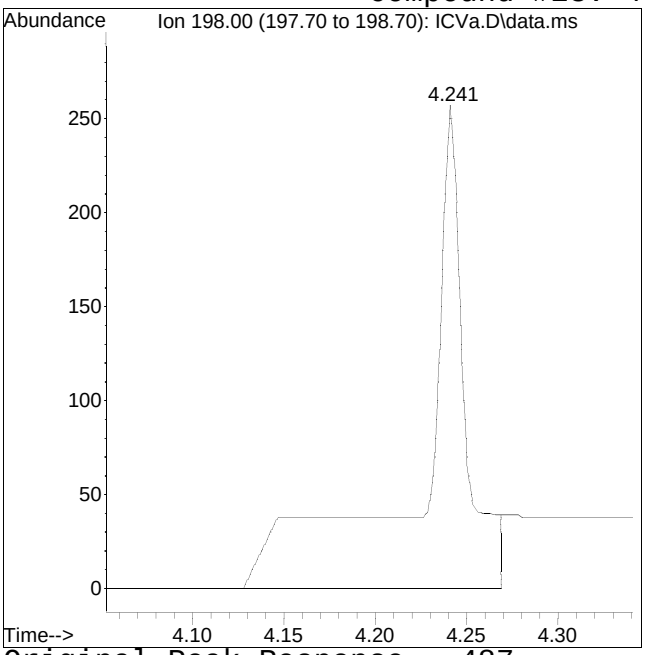
Manual Peak Response = 251 M4

M4 = Poor automated baseline construction.

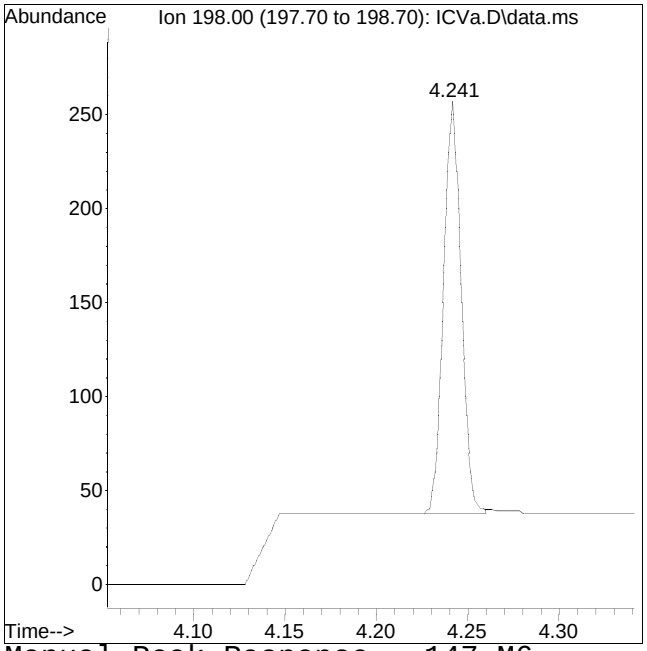
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : ICVa.D Operator : SV128:ah
Date Inj'd : 9/5/2023 11:08 am Instrument : SV128
Sample : CQICV,32,, 1.0 Lot#10193 Quant Date : 9/5/2023 11:58 am

Compound #23: 4,6-Dinitro-o-cresol



Original Peak Response = 487



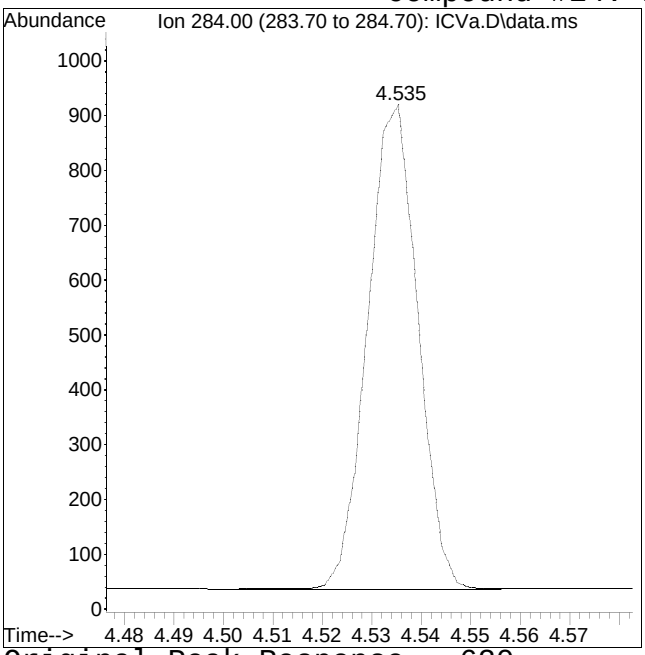
Manual Peak Response = 147 M6

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

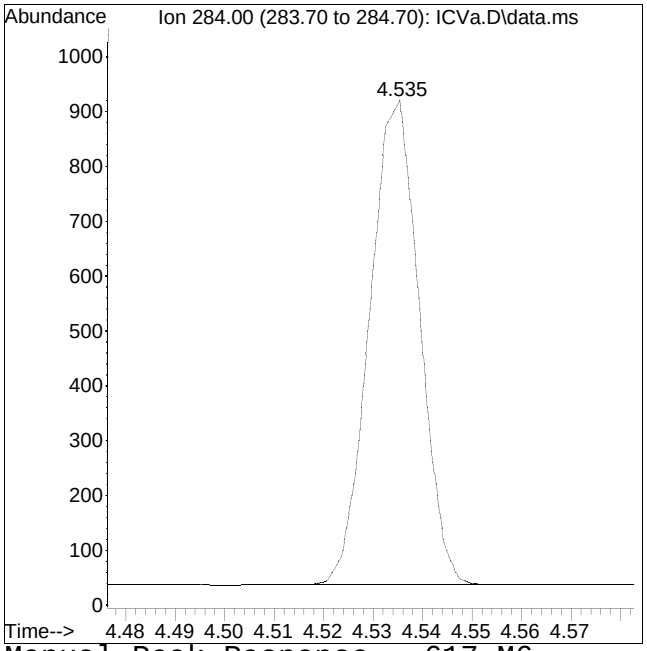
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : ICVa.D Operator : SV128:ah
Date Inj'd : 9/5/2023 11:08 am Instrument : SV128
Sample : CQICV,32,, 1.0 Lot#10193 Quant Date : 9/5/2023 11:58 am

Compound #24: Hexachlorobenzene



Original Peak Response = 620



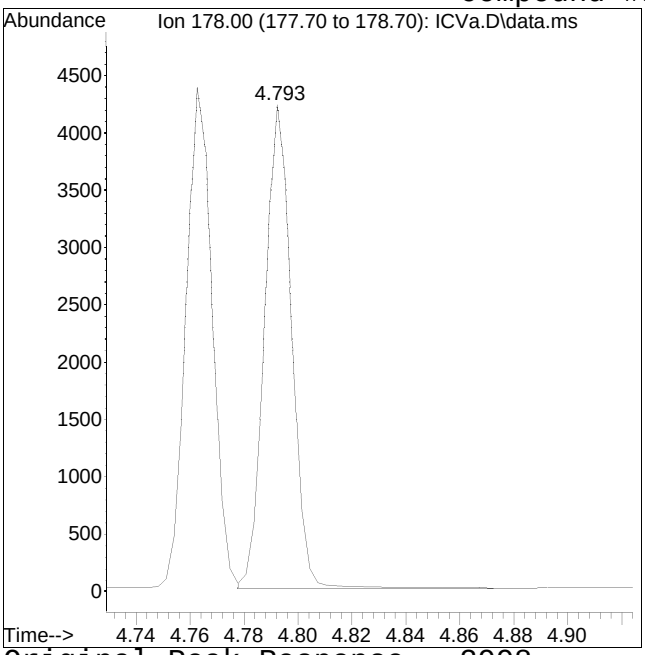
Manual Peak Response = 617 M6

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

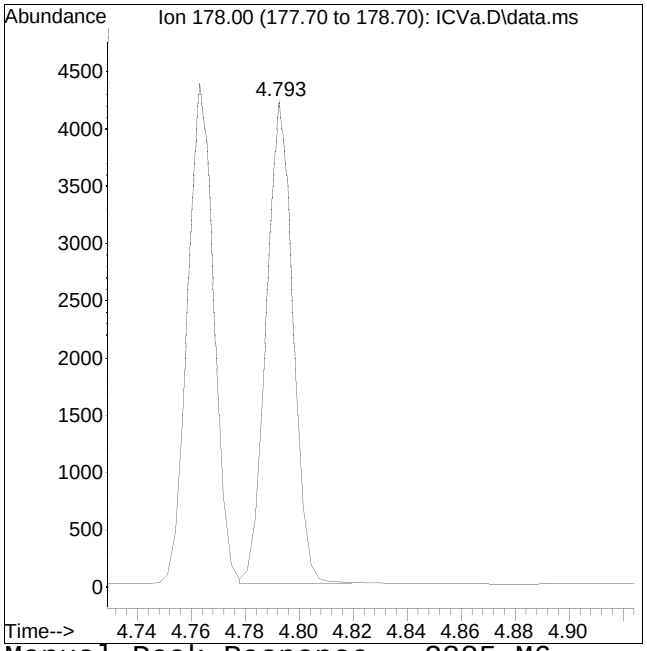
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : ICVa.D Operator : SV128:ah
Date Inj'd : 9/5/2023 11:08 am Instrument : SV128
Sample : CQICV,32,, 1.0 Lot#10193 Quant Date : 9/5/2023 11:58 am

Compound #27: Anthracene



Original Peak Response = 2998



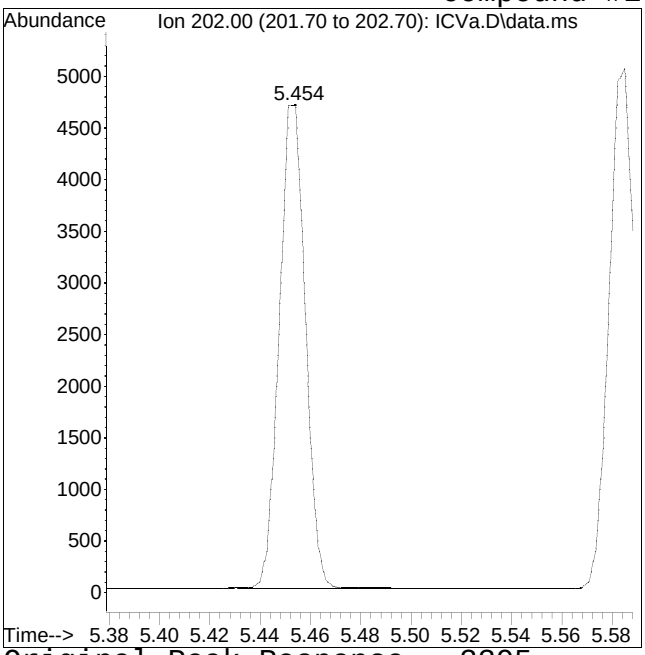
Manual Peak Response = 2885 M6

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

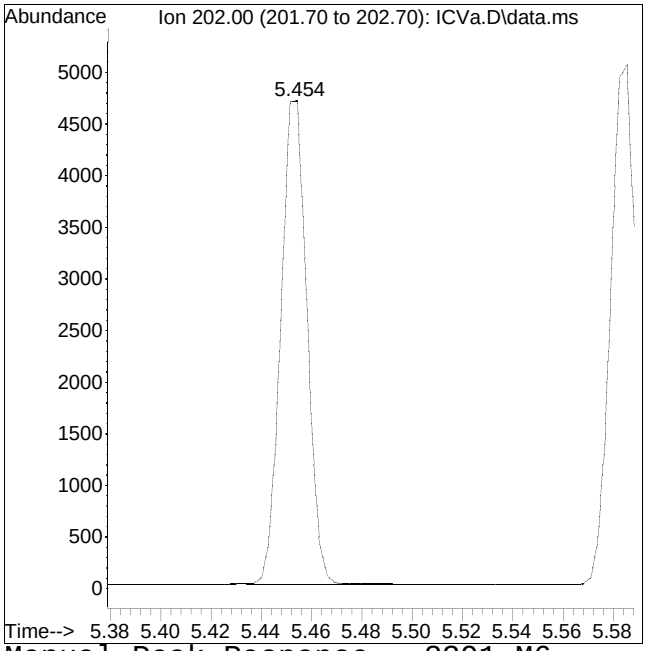
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : ICVa.D Operator : SV128:ah
Date Inj'd : 9/5/2023 11:08 am Instrument : SV128
Sample : CQICV,32,, 1.0 Lot#10193 Quant Date : 9/5/2023 11:58 am

Compound #28: Fluoranthene



Original Peak Response = 3395



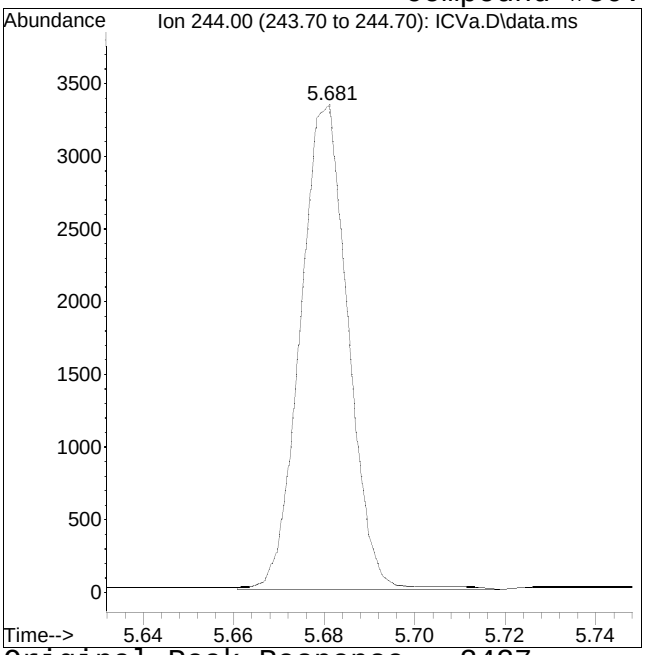
Manual Peak Response = 3391 M6

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

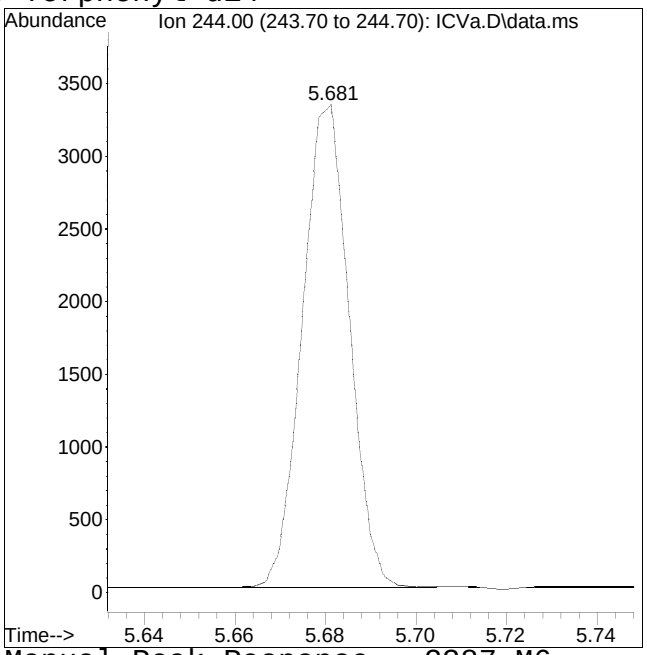
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : ICVa.D Operator : SV128:ah
Date Inj'd : 9/5/2023 11:08 am Instrument : SV128
Sample : CQICV,32,, 1.0 Lot#10193 Quant Date : 9/5/2023 11:58 am

Compound #30: 4-Terphenyl-d14



Original Peak Response = 2427



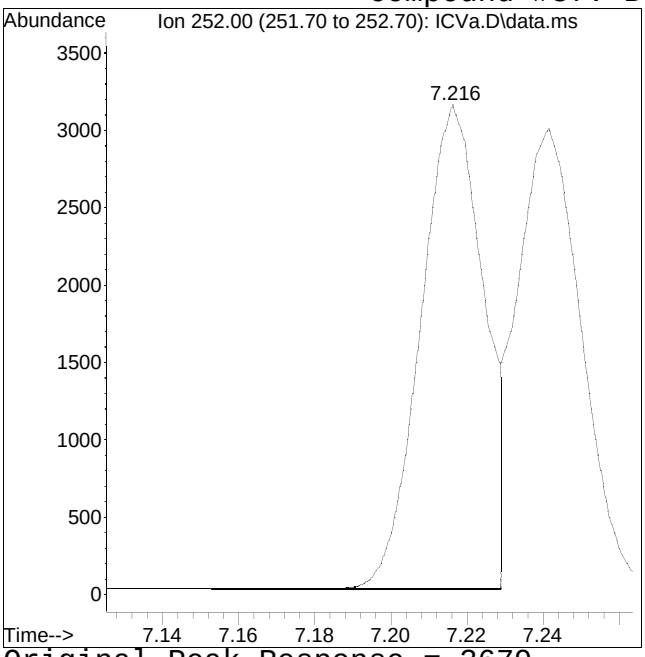
Manual Peak Response = 2387 M6

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

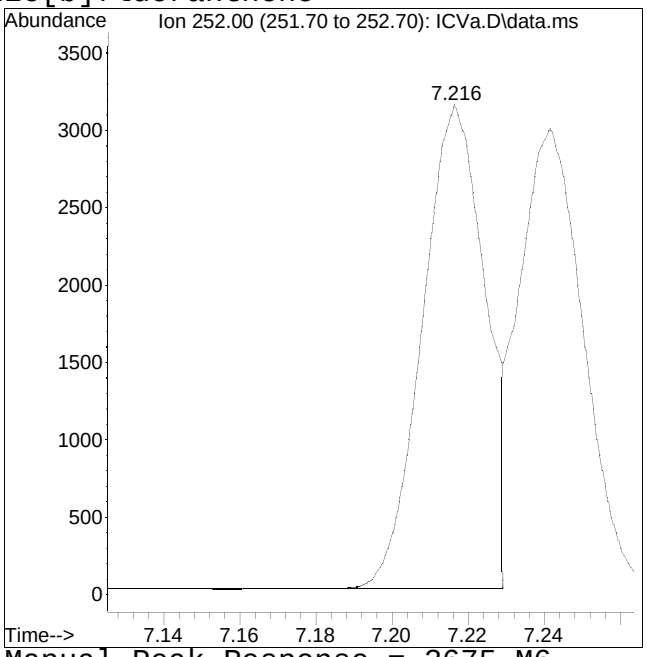
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : ICVa.D Operator : SV128:ah
Date Inj'd : 9/5/2023 11:08 am Instrument : SV128
Sample : CQICV,32,, 1.0 Lot#10193 Quant Date : 9/5/2023 11:58 am

Compound #37: Benzo[b]fluoranthene



Original Peak Response = 3679



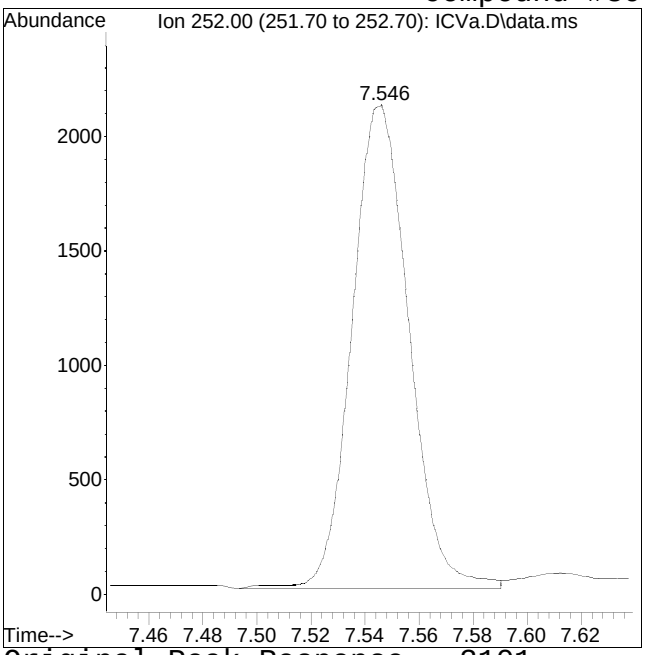
Manual Peak Response = 3675 M6

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

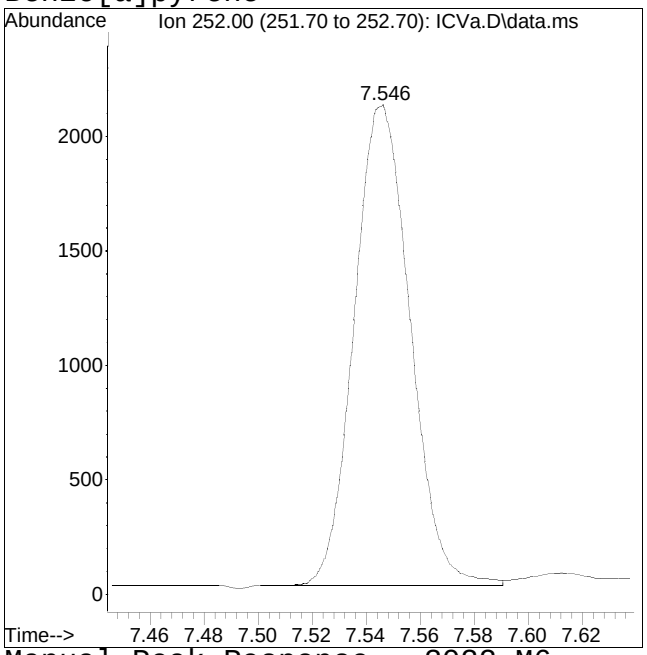
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : ICVa.D Operator : SV128:ah
Date Inj'd : 9/5/2023 11:08 am Instrument : SV128
Sample : CQICV,32,, 1.0 Lot#10193 Quant Date : 9/5/2023 11:58 am

Compound #39: Benzo[a]pyrene



Original Peak Response = 3101



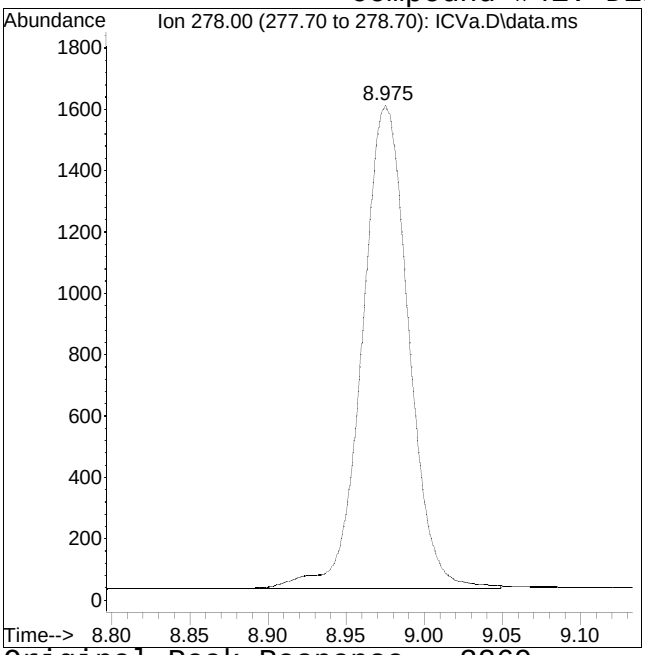
Manual Peak Response = 3022 M6

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

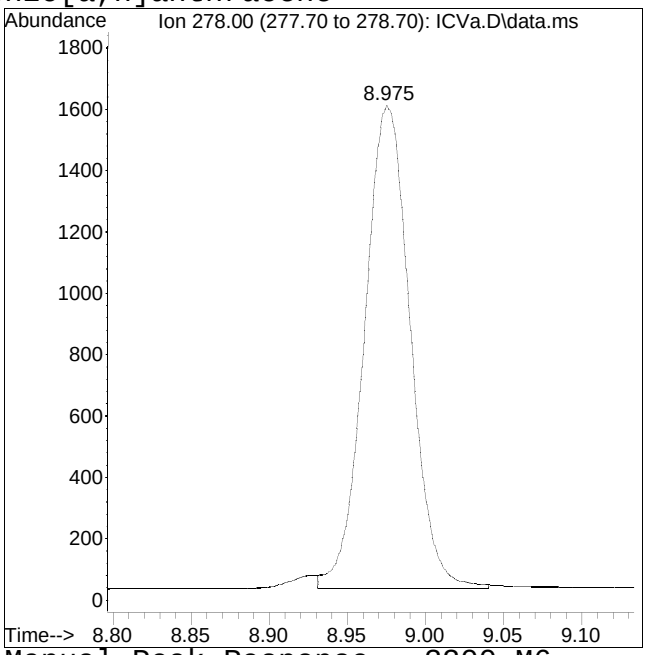
Manual Integration Report

Data Path : I:\8270SIM\SV128\230831aLVQMethod : SIM-LVI_230831_sv128.M
Data File : ICVa.D Operator : SV128:ah
Date Inj'd : 9/5/2023 11:08 am Instrument : SV128
Sample : CQICV,32,, 1.0 Lot#10193 Quant Date : 9/5/2023 11:58 am

Compound #41: Dibenzo[a,h]anthracene



Original Peak Response = 3269



Manual Peak Response = 3200 M6

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

Evaluate Relative Error Report SV128

Method Path : I:\8270SIM\SV128\230831aLVIical\
Method File : SIM-LVI_230831_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Tue Sep 05 12:51:59 2023

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
23 T	4,6-Dinitro-o-cresol	Q	ng/ml	1000.0	862.661	-13.7	100.00	117.660	17.7
25 T	Pentachlorophenol	Q	ng/ml	1000.0	875.107	-12.5	25.00	31.130	24.5
32 T	Benzo[a]anthracene	Q	ng/ml	1000.0	1009.966	1.0	10.00	12.496	25.0

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
23 T	4,6-Dinitro-o-cresol	Quadratic	0.999088	0.001012	0.0731408	-0.00107761
25 T	Pentachlorophenol	Quadratic	0.999103	0.000761	0.137619	-0.000737296
32 T	Benzo[a]anthracene	Quadratic	0.999634	0.081031	1.29584	0.00228663

Response Factor Report SV125

Method Path : I:\8270SIM\SV125\231026aLVIical\
Method File : SIM-LVI_231026_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Oct 27 08:06:33 2023
Response Via : Initial Calibration

Calibration Files
L1 =IL1.D L2 =IL2.D L3 =IL3.D L4 =IL4.D L5 =IL5.D L6 =IL6.D L7 =IL7.D L8 =IL8.D
L9 =IL9.D L10 =IL10.D

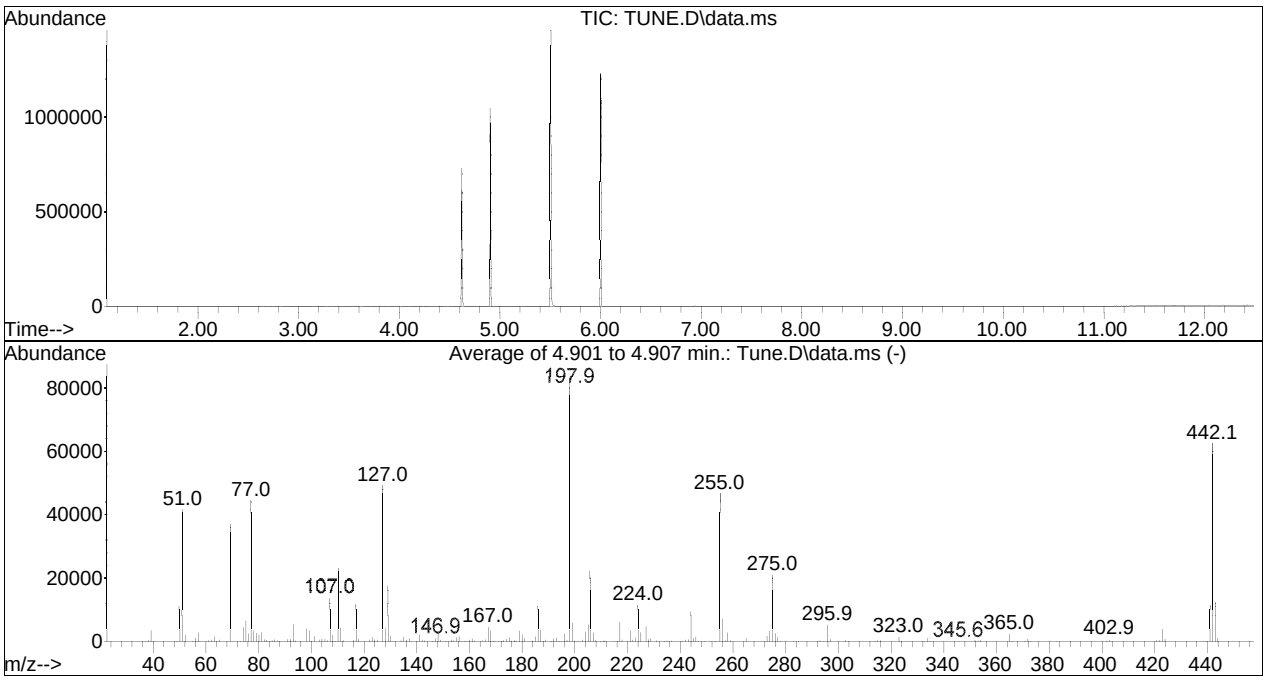
		Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	%RSD
1)	i	1,4-Dichlorobenzene-d4	ISTD											
2)	T	1,4-Dioxane											0.000	-1.00
3)	s	2-Fluorophenol	0.973	0.972	0.981	0.980	1.018	1.052	1.064	1.048	1.043	1.015		3.79
4)	s	Phenol-d6	1.136	1.123	1.117	1.123	1.153	1.200	1.233	1.240	1.238	1.174		4.56
5)	T	bis(2-Chloroethyl)ether	1.058	1.082	1.049	1.057	1.068	1.090	1.073	1.043	1.004	1.058		2.38
6)	T	n-Nitrosodi-n-propylamine	0.552	0.587	0.574	0.598	0.613	0.645	0.711	0.734	0.743	0.640		11.30
7)	t	Hexachloroethane	0.506	0.495	0.476	0.458	0.473	0.476	0.485	0.478	0.472	0.480		2.91
8)	s	Nitrobenzene-d5	0.778	0.817	0.844	0.852	0.898	0.951	1.008	1.026	1.036	0.912		10.58
9)	i	Naphthalene-d8	ISTD											
10)	t	Naphthalene	1.033	1.054	1.005	1.013	1.031	1.016	0.992	0.966	0.927	1.004		3.84
11)	t	Hexachlorobutadiene	0.191	0.194	0.184	0.182	0.186	0.181	0.177	0.170	0.165	0.181		5.16
12)	t	2-Methylnaphthalene	0.635	0.650	0.638	0.631	0.654	0.654	0.660	0.651	0.628	0.645		1.80
13)	t	1-Methylnaphthalene	0.596	0.619	0.591	0.594	0.610	0.610	0.609	0.598	0.578	0.601		2.09
14)	s	2-Fluorobiphenyl	0.767	0.805	0.781	0.781	0.796	0.790	0.757	0.729	0.688	0.766		4.83
15)	t	2-Chloronaphthalene	0.667	0.678	0.647	0.654	0.669	0.664	0.664	0.658	0.637	0.660		1.89
16)	t	2,6-Dinitrotoluene				0.092	0.099	0.110	0.142	0.153	0.153		*Q	0.9986
17)	t	Acenaphthylene	0.907	0.924	0.891	0.910	0.948	0.995	1.069	1.070	1.027	0.971		7.28
18)	i	Acenaphthene-d10	ISTD											
19)	t	Acenaphthene	1.354	1.331	1.314	1.302	1.307	1.295	1.294	1.257	1.230	1.298		2.83
20)	t	2,4-Dinitrotoluene				0.201	0.213	0.229	0.269	0.353	0.375		*Q	0.9986
21)	t	Fluorene	1.337	1.363	1.299	1.332	1.364	1.400	1.438	1.408	1.379	1.369		3.13
22)	s	2,4,6-Tribromophenol			0.141	0.139	0.147	0.161	0.187	0.217	0.220		*Q	0.9990
23)	i	Phenanthrene-d10	ISTD											
24)	T	4,6-Dinitro-o-cresol				0.037	0.042	0.047	0.060	0.082	0.090		*Q	0.9985
25)	t	Hexachlorobenzene	0.228	0.238	0.244	0.231	0.234	0.237	0.232	0.230	0.220	0.214	0.231	3.71
26)	t	Pentachlorophenol			0.046	0.052	0.064	0.076	0.098	0.125			*Q	0.9995
27)	t	Phenanthrene	1.033	1.036	0.969	1.011	1.017	1.004	1.003	0.970	0.938	0.998		3.26
28)	t	Anthracene	0.913	0.903	0.895	0.904	0.922	0.947	0.996	0.977	0.950	0.934		3.81
29)	t	Fluoranthene	1.059	1.065	1.046	1.056	1.087	1.104	1.184	1.150	1.126	1.097		4.36
30)	t	Pyrene	1.096	1.116	1.084	1.108	1.132	1.175	1.255	1.211	1.170	1.150		4.99
31)	s	4-Terphenyl-d14	0.729	0.753	0.754	0.761	0.781	0.794	0.808	0.761	0.741	0.765		3.33
32)	i	Chrysene-d12	ISTD											
33)	t	Benzo[a]anthracene	2.279	1.504	1.249	1.188	1.187	1.196	1.301	1.286			*Q	0.9994
34)	t	3,3'-Dichlorob...				0.346	0.350	0.369	0.397	0.482	0.496	0.507	0.421	17.01
35)	t	Chrysene	1.248	1.412	1.324	1.332	1.285	1.275	1.273	1.225	1.204	1.286		4.88
36)	T	bis(2-Ethylhexyl)phthalate				0.418	0.422	0.452	0.490	0.689	0.750		*Q	0.9983
37)	i	Perylene-d12	ISTD											
38)	t	Benzo[b]fluora...	1.062	1.043	1.004	1.024	1.056	1.096	1.188	1.131	1.097	1.078		5.28
39)	t	Benzo[k]fluora...	0.950	1.012	1.006	1.042	1.083	1.155	1.154	1.132	1.092	1.069		6.73
40)	t	Benzo[a]pyrene	0.828	0.846	0.854	0.869	0.911	0.982	1.079	1.077	1.058	0.945		11.11
41)	t	Indeno[1,2,3-c...			0.881	0.852	0.877	0.937	0.987	1.095	1.122	1.117	0.984	11.59
42)	t	Dibenzo[a,h]anthracene	0.835	0.857	0.838	0.872	0.922	1.008	1.076	1.081	1.074	0.951		11.33
43)	t	Benzo[g,h,i]pe...	0.998	1.011	0.971	1.007	1.032	1.105	1.159	1.152	1.138	1.064		6.97

(#) = Out of Range

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : TUNE.D
Acq On : 26 Oct 2023 10:06 am
Operator : SV125:ah
Sample : tune
Misc : WG1845005,,ical
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Oct 27 08:06:33 2023



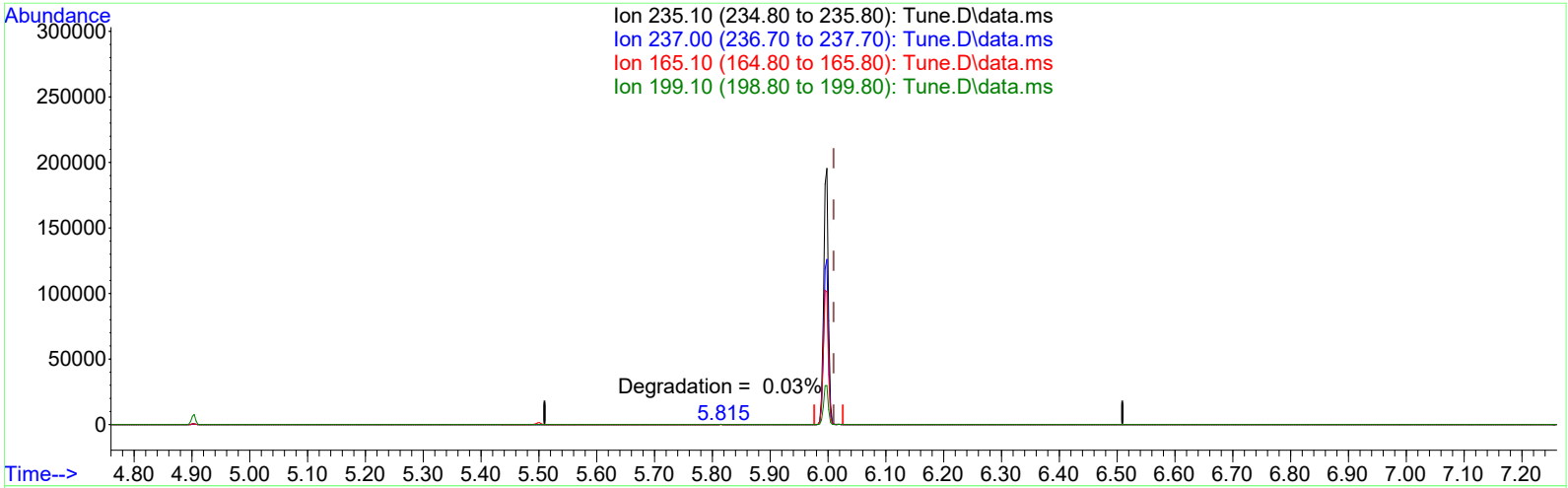
Spectrum Information: Average of 4.901 to 4.907 min.

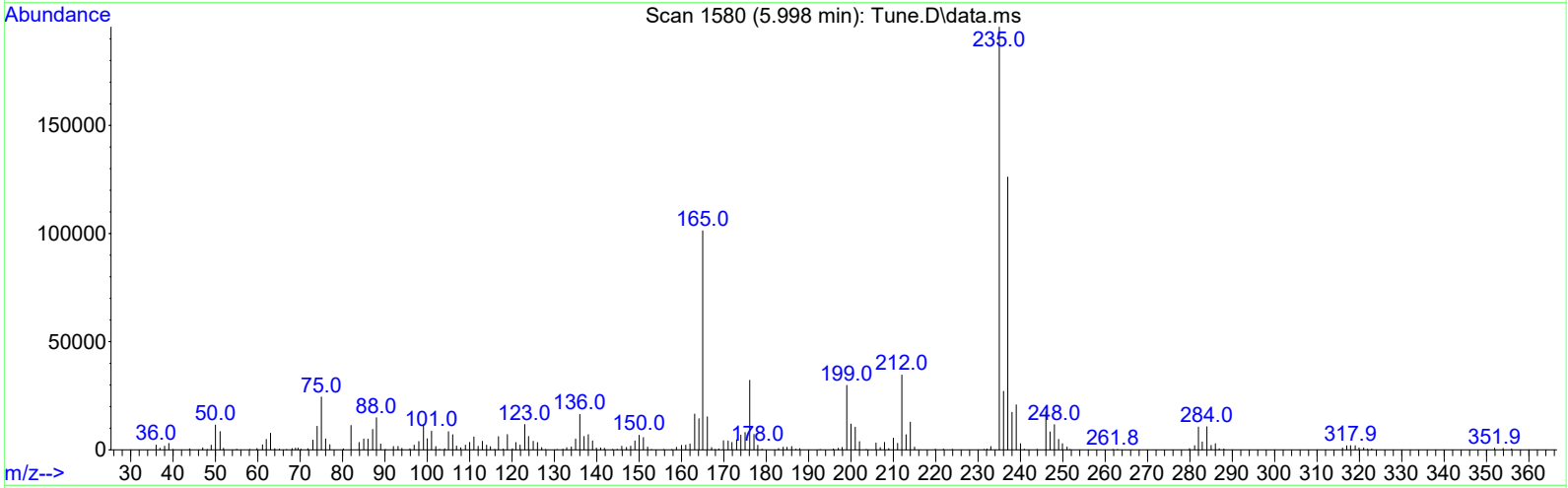
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	50.0	41630	PASS
68	69	0.00	2	0.2	63	PASS
69	69	100	100	100.0	36963	PASS
70	69	0.00	2	0.5	179	PASS
127	198	10	80	59.2	49280	PASS
197	198	0.00	2	0.7	558	PASS
198	198	100	100	100.0	83277	PASS
199	198	5	9	6.8	5644	PASS
275	198	10	60	25.1	20900	PASS
365	198	1	100	3.0	2493	PASS
441	442	0.01	24	18.3	11446	PASS
442	198	50	100	74.9	62405	PASS
443	442	15	24	20.1	12518	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : Tune.D
Acq On : 26 Oct 2023 10:06 am
Operator : SV125:ah
Sample : tune
Misc : WG1845005,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Oct 26 10:53:05 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 21 08:58:46 2023
Response via : Continuing Cal File:





TIC: Tune.D\data.ms

(6) ddt (T)

5.998min (-0.012) 17.75

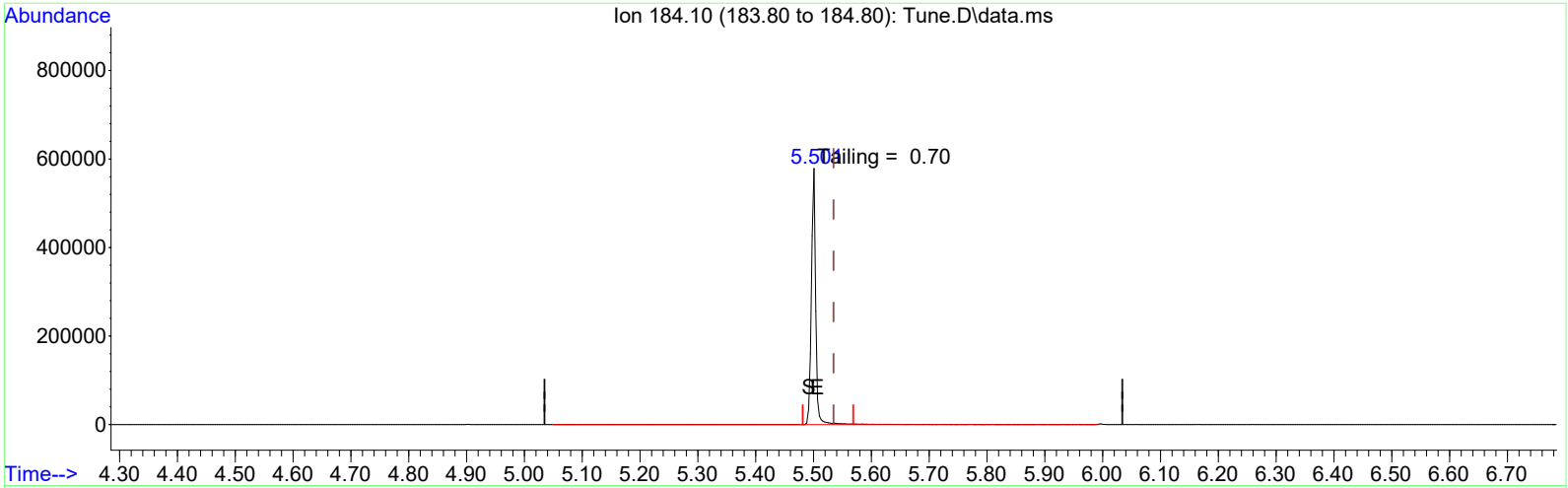
response 108224

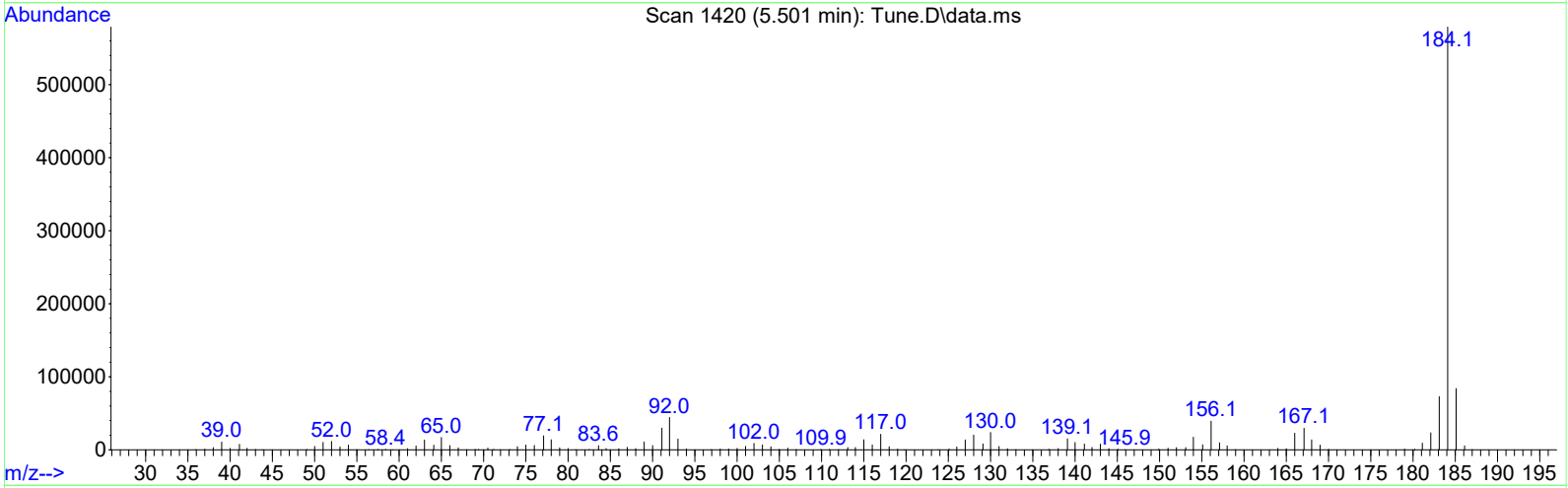
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.66
165.10	53.30	54.72
199.10	17.10	15.52

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : Tune.D
Acq On : 26 Oct 2023 10:06 am
Operator : SV125:ah
Sample : tune
Misc : WG1845005,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Oct 26 10:53:05 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 21 08:58:46 2023
Response via : Continuing Cal File:





TIC: Tune.D\data.ms

(3) benzidine (T)

5.501min (-0.034) 29.27

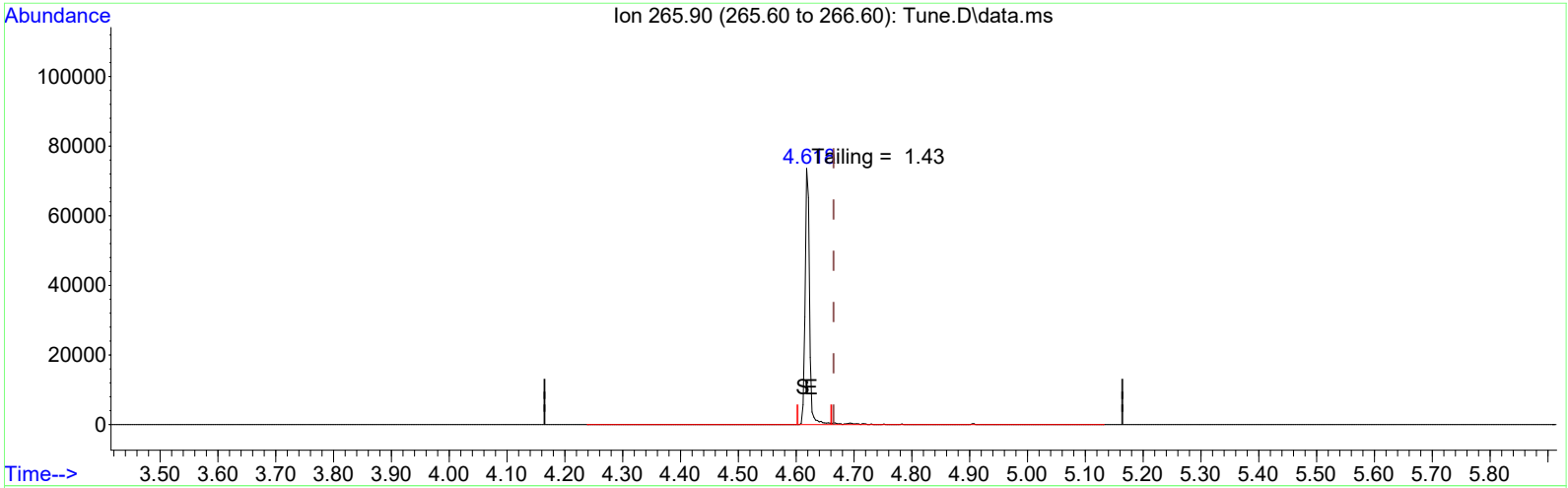
response 297925

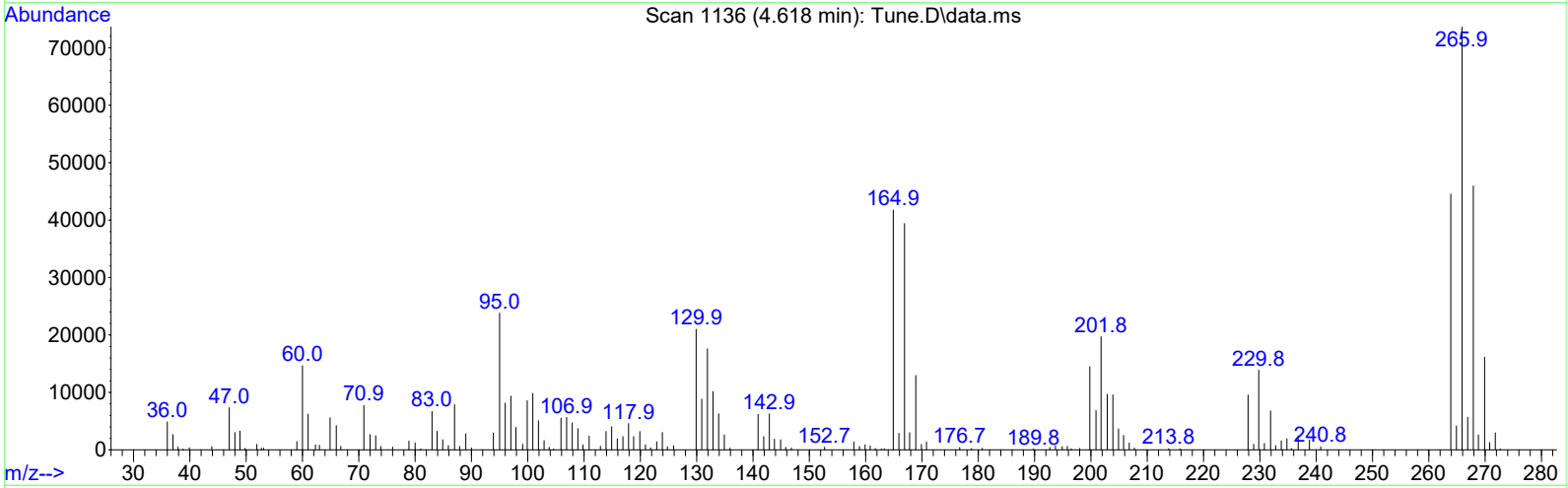
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : Tune.D
Acq On : 26 Oct 2023 10:06 am
Operator : SV125:ah
Sample : tune
Misc : WG1845005,,ical
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Oct 26 10:53:05 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Apr 21 08:58:46 2023
Response via : Continuing Cal File:





TIC: Tune.D\data.ms

(1) pentachlorophenol (T)

4.618min (-0.047) 18.43

response 38716

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL10.D
Acq On : 26 Oct 2023 01:22 pm
Operator : SV125:ah
Sample : IL10,32,, 20.0 Lot#10186
Misc : WG1845005,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 27 10:34:25 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:34:24 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.282	152	50178	4000.000	ng/ml	# 0.00
Standard Area 1 = 51814			Recovery = 96.84%			
9) Naphthalene-d8	2.963	136	193883	4000.000	ng/ml	0.00
Standard Area 1 = 191147			Recovery = 101.43%			
18) Acenaphthene-d10	3.953	164	107742	4000.000	ng/ml	0.00
Standard Area 1 = 104051			Recovery = 103.55%			
23) Phenanthrene-d10	4.797	188	238551	4000.000	ng/ml	0.00
Standard Area 1 = 234696			Recovery = 101.64%			
32) Chrysene-d12	6.350	240	235918	4000.000	ng/ml	0.00
Standard Area 1 = 218576			Recovery = 107.93%			
37) Perylene-d12	7.584	264	286091	4000.000	ng/ml	0.01
Standard Area 1 = 240994			Recovery = 118.71%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.664	112	261734	20564.622	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 411.29%#			
4) Phenol-d6	2.085	99	310702	21101.851	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 422.04%#			
8) Nitrobenzene-d5	2.572	82	259950	22715.888	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 908.64%#			
14) 2-Fluorobiphenyl	3.571	172	666975	17963.210	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 718.53%#			
22) 2,4,6-Tribromophenol	4.402	330	118469	18333.537	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 366.67%#			
31) 4-Terphenyl-d14	5.712	244	884421	19391.141	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 775.65%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.141	93	252008	18982.314	ng/ml	98
6) n-nitrosodi-n-propylamine	2.489	70	186307	23214.544	ng/ml	98
7) Hexachloroethane	2.549	117	118385	19663.612	ng/ml	96
10) Naphthalene	2.973	128	898204	18455.761	ng/ml#	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL10.D
Acq On : 26 Oct 2023 01:22 pm
Operator : SV125:ah
Sample : IL10,32,, 20.0 Lot#10186
Misc : WG1845005,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 27 10:34:25 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:34:24 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
11) Hexachlorobutadiene	3.049	225	160138	18250.853	ng/ml	100
12) 2-Methylnaphthalene	3.361	142	608507	19477.529	ng/ml	99
13) 1-Methylnaphthalene	3.418	142	560144	19242.083	ng/ml	99
15) 2-Chloronaphthalene	3.635	162	617245	19300.313	ng/ml	98
16) 2,6-Dinitrotoluene	3.831	165	148442	19850.177	ng/ml	94
17) Acenaphthylene	3.871	152	995804	21153.267	ng/ml	98
19) Acenaphthene	3.971	153	662781	18956.983	ng/ml	95
20) 2,4-Dinitrotoluene	4.060	165	206915	17571.665	ng/ml	88
21) Fluorene	4.265	166	742959	20148.284	ng/ml	99
24) 4,6-Dinitro-o-cresol	4.295	198	115569	17814.424	ng/ml#	87
25) Hexachlorobenzene	4.584	284	255824	18589.482	ng/ml	99
26) Pentachlorophenol	4.693	266	163505	14230.434	ng/ml	99
27) Phenanthrene	4.811	178	1119223	18805.223	ng/ml	98
28) Anthracene	4.841	178	1133368	20344.686	ng/ml	98
29) Fluoranthene	5.491	202	1343447	20527.552	ng/ml	97
30) Pyrene	5.622	202	1395336	20349.885	ng/ml	98
33) Benzo[a]anthracene	6.344	228	1467192	18573.839	ng/ml	98
34) 3,3'-Dichlorobenzene	6.328	252	598342	24100.307	ng/ml	99
35) Chrysene	6.369	228	1421148	18731.580	ng/ml	97
36) Bis(2-ethylhexyl)phtha...	6.364	149	942442	17608.890	ng/ml	99
38) Benzo[b]fluoranthene	7.210	252	1569910	20362.920	ng/ml	98
39) Benzo[k]fluoranthene	7.238	252	1561747	20417.638	ng/ml	98
40) Benzo[a]pyrene	7.527	252	1513910	22400.963	ng/ml	98
41) Indeno[1,2,3-cd]pyrene	8.844	276	1598384	22722.022	ng/ml	93
42) Dibenzo[a,h]anthracene	8.879	278	1536747M6	22582.709	ng/ml	
43) Benzo[g,h,i]perylene	9.195	276	1626881	21381.828	ng/ml	96

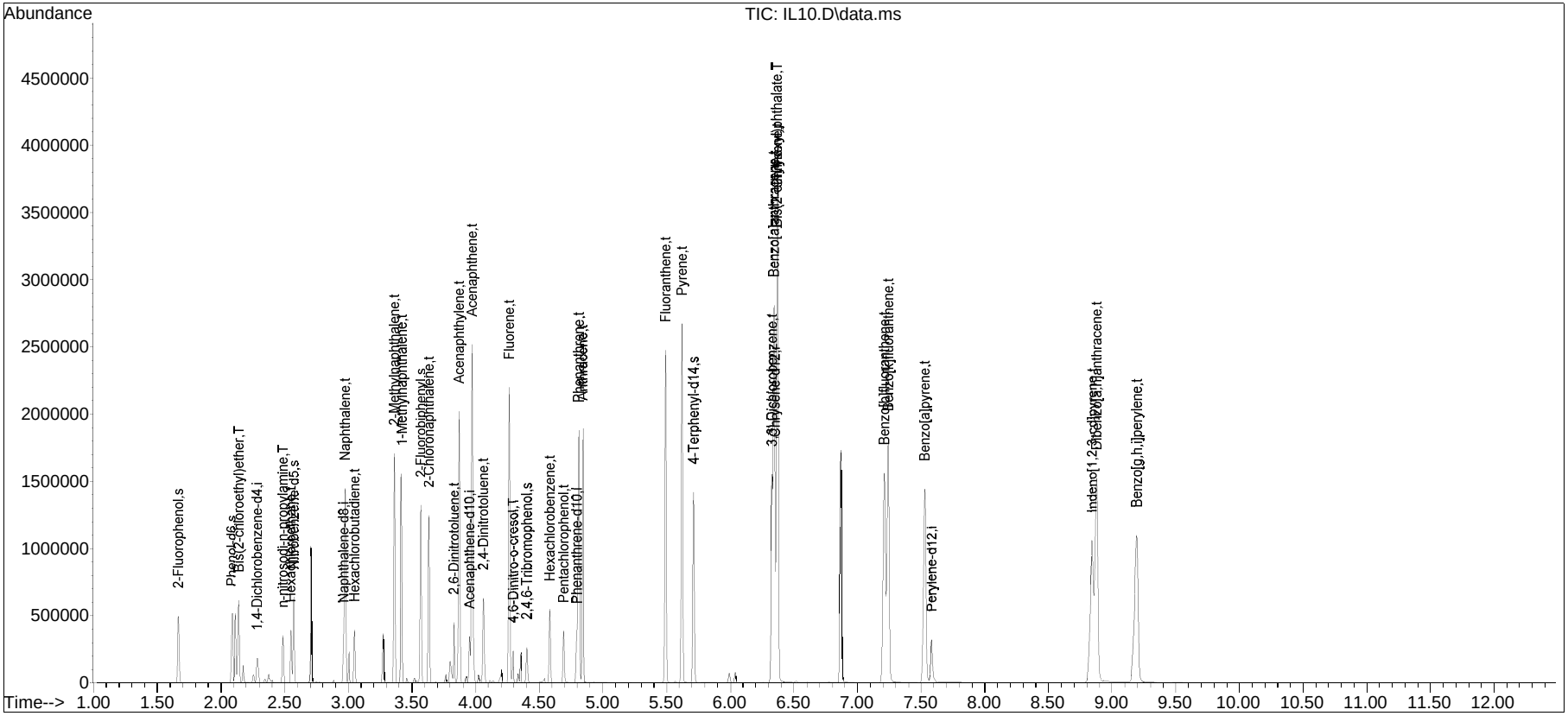
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL10.D
Acq On : 26 Oct 2023 01:22 pm
Operator : SV125:ah
Sample : IL10,32,, 20.0 Lot#10186
Misc : WG1845005,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 27 10:34:25 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:34:24 2023
Response via : Initial Calibration

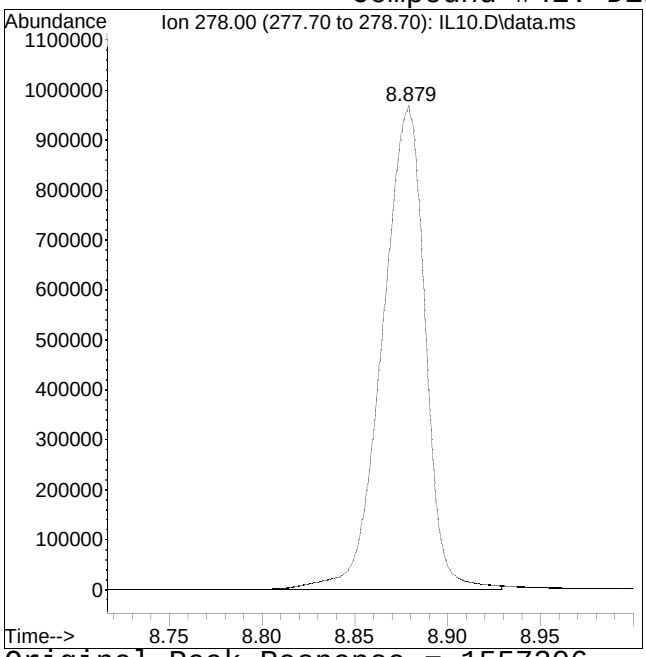
Sub List : Default - All compounds listedIical\IL7.D•



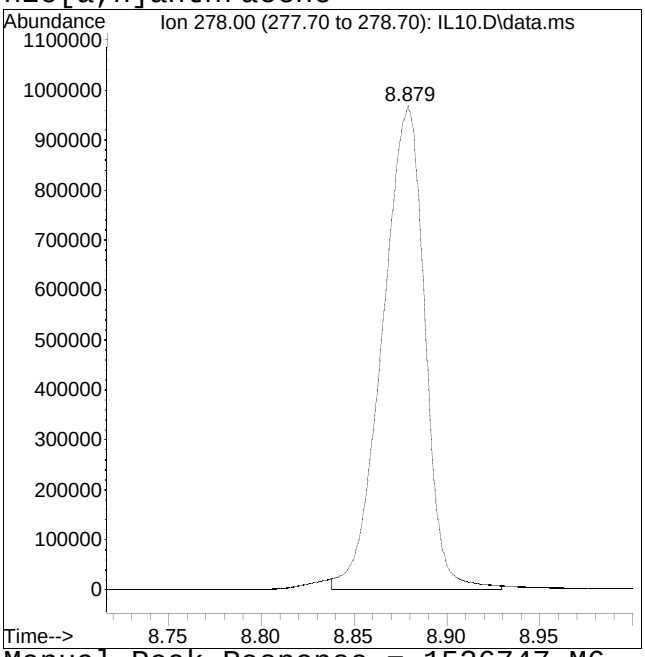
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL10.D Operator : SV125:ah
Date Inj'd : 10/26/2023 1:22 pm Instrument : SV125
Sample : IL10,32,, 20.0 Lot#10186 Quant Date : 10/27/2023 10:34 am

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 1557206



Manual Peak Response = 1536747 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL9.D
Acq On : 26 Oct 2023 01:38 pm
Operator : SV125:ah
Sample : IL9,32,,10.0 Lot#10227
Misc : WG1845005,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 10:35:45 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:44 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.280	152	51772	4000.000	ng/ml	# 0.00
Standard Area 1 = 51814			Recovery = 99.92%			
9) Naphthalene-d8	2.959	136	200065	4000.000	ng/ml	0.00
Standard Area 1 = 191147			Recovery = 104.67%			
18) Acenaphthene-d10	3.951	164	112982	4000.000	ng/ml	0.00
Standard Area 1 = 104051			Recovery = 108.58%			
23) Phenanthrene-d10	4.795	188	253945	4000.000	ng/ml	0.00
Standard Area 1 = 234696			Recovery = 108.20%			
32) Chrysene-d12	6.348	240	242122	4000.000	ng/ml	0.00
Standard Area 1 = 218576			Recovery = 110.77%			
37) Perylene-d12	7.579	264	285962	4000.000	ng/ml	0.00
Standard Area 1 = 240994			Recovery = 118.66%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.658	112	135663	10330.953	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 206.62%#			
4) Phenol-d6	2.079	99	160438	10560.930	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 211.22%#			
8) Nitrobenzene-d5	2.568	82	132843	11251.152	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 450.05%#			
14) 2-Fluorobiphenyl	3.566	172	364737	9519.690	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 380.79%#			
22) 2,4,6-Tribromophenol	4.400	330	62047	9931.335	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 198.63%#			
31) 4-Terphenyl-d14	5.710	244	483130	9950.615	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 398.02%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.135	93	135029	9857.806	ng/ml	98
6) n-nitrosodi-n-propylamine	2.485	70	95028	11476.276	ng/ml	99
7) Hexachloroethane	2.545	117	61805	9949.669	ng/ml	96
10) Naphthalene	2.971	128	483040	9618.530	ng/ml#	99
11) Hexachlorobutadiene	3.047	225	84996	9387.628	ng/ml	100
12) 2-Methylnaphthalene	3.359	142	325744	10104.465	ng/ml	100
13) 1-Methylnaphthalene	3.414	142	299281	9963.230	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL9.D
Acq On : 26 Oct 2023 01:38 pm
Operator : SV125:ah
Sample : IL9,32,,10.0 Lot#10227
Misc : WG1845005,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 10:35:45 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:44 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
15) 2-Chloronaphthalene	3.634	162	329150	9973.997 ng/ml	99
16) 2,6-Dinitrotoluene	3.829	165	76550	10366.374 ng/ml	96
17) Acenaphthylene	3.869	152	534988	11013.269 ng/ml	98
19) Acenaphthene	3.970	153	354976	9682.198 ng/ml	97
20) 2,4-Dinitrotoluene	4.058	165	105910	9928.685 ng/ml	90
21) Fluorene	4.263	166	397743	10286.119 ng/ml	100
24) 4,6-Dinitro-o-cresol	4.291	198	57008	9928.744 ng/ml#	86
25) Hexachlorobenzene	4.582	284	139678	9534.449 ng/ml	100
26) Pentachlorophenol	4.692	266	83243	8643.550 ng/ml	99
27) Phenanthrene	4.810	178	615719	9718.204 ng/ml	99
28) Anthracene	4.839	178	620016	10455.012 ng/ml	99
29) Fluoranthene	5.489	202	729957	10477.447 ng/ml	97
30) Pyrene	5.620	202	768835	10533.140 ng/ml	99
33) Benzo[a]anthracene	6.340	228	778325	9942.776 ng/ml	99
34) 3,3'-Dichlorobenzene	6.324	252	300535	11794.919 ng/ml	99
35) Chrysene	6.365	228	741793	9526.747 ng/ml	97
36) Bis(2-ethylhexyl)phtha...	6.362	149	453910	9925.755 ng/ml	98
38) Benzo[b]fluoranthene	7.205	252	808529	10491.964 ng/ml	99
39) Benzo[k]fluoranthene	7.230	252	809171	10583.541 ng/ml	99
40) Benzo[a]pyrene	7.522	252	770031	11399.104 ng/ml	99
41) Indeno[1,2,3-cd]pyrene	8.830	276	802390	11411.618 ng/ml	95
42) Dibenzo[a,h]anthracene	8.865	278	772766M6	11361.026 ng/ml	
43) Benzo[g,h,i]perylene	9.182	276	823077	10822.445 ng/ml	96

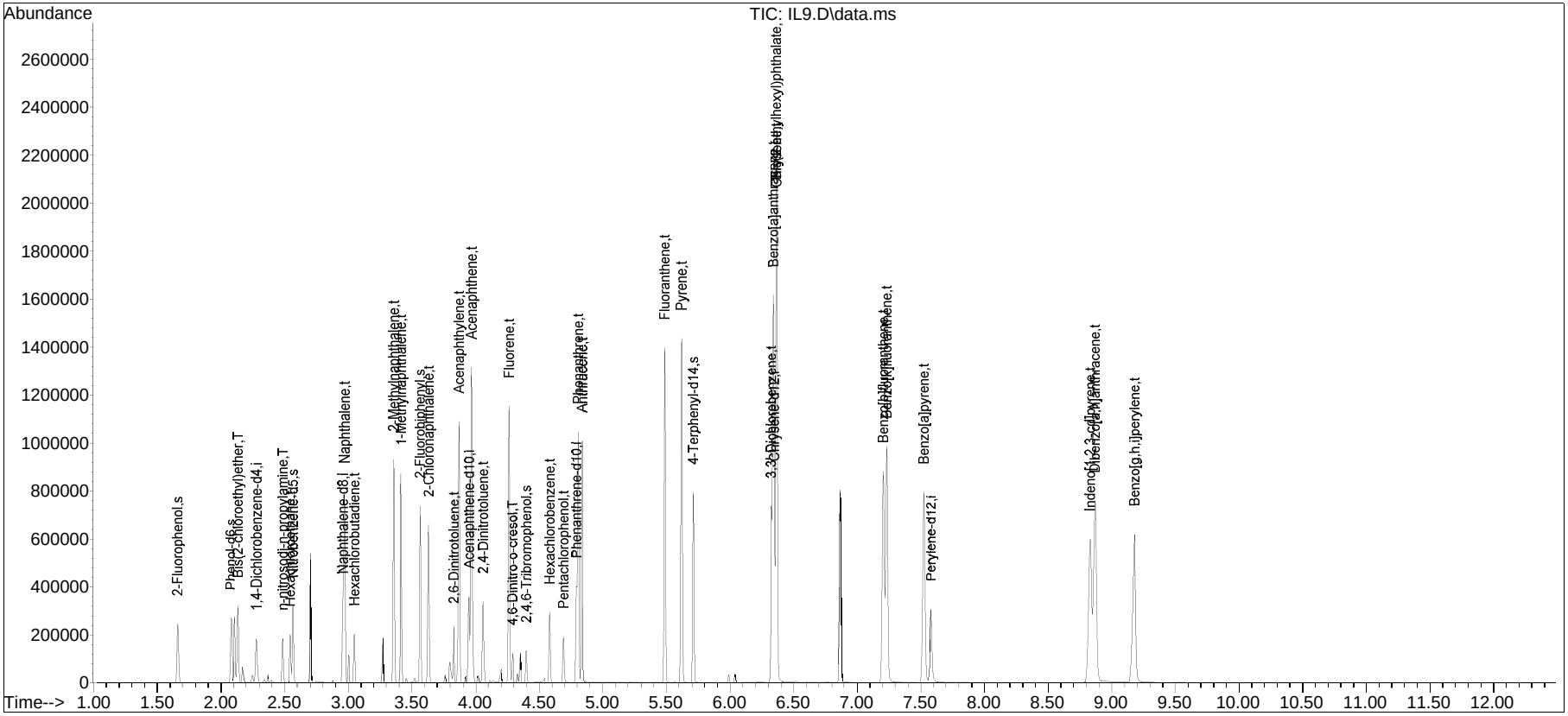
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL9.D
Acq On : 26 Oct 2023 01:38 pm
Operator : SV125:ah
Sample : IL9,32,,10.0 Lot#10227
Misc : WG1845005,,ical
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 10:35:45 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:44 2023
Response via : Initial Calibration

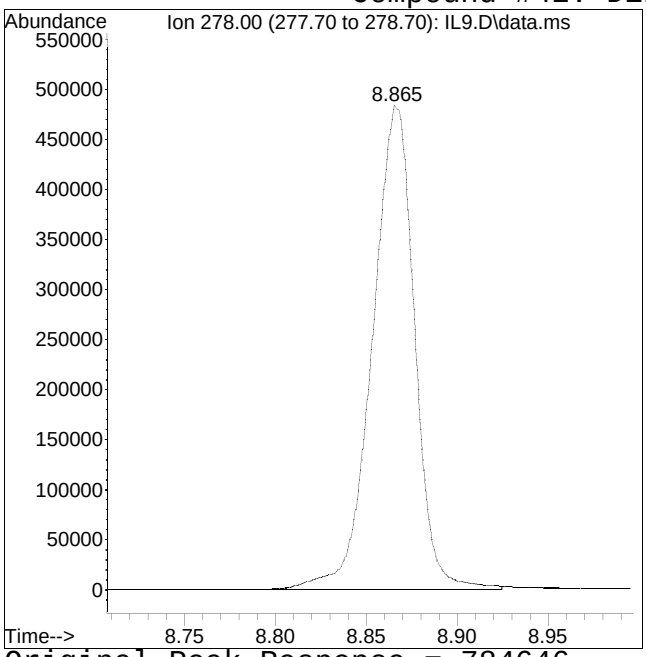
Sub List : Default - All compounds listedIical\IL7.D•



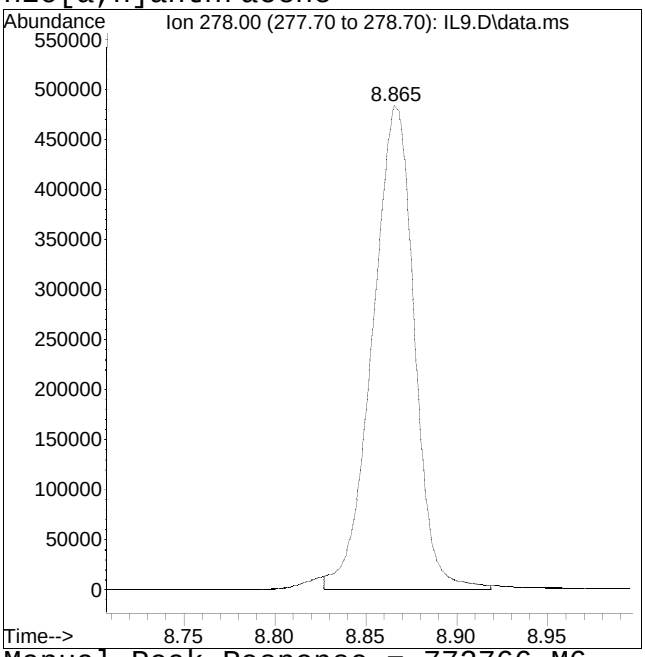
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL9.D Operator : SV125:ah
Date Inj'd : 10/26/2023 1:38 pm Instrument : SV125
Sample : IL9,32,,10.0 Lot#10227 Quant Date : 10/27/2023 10:35 am

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 784646



Manual Peak Response = 772766 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL8.D
Acq On : 26 Oct 2023 01:55 pm
Operator : SV125:ah
Sample : IL8,32,,5.0 Lot#10228
Misc : WG1845005,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 10:35:36 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:35 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.278	152	52319	4000.000	ng/ml	0.00
Standard Area 1 = 51814			Recovery = 100.97%			
9) Naphthalene-d8	2.958	136	200908	4000.000	ng/ml	0.00
Standard Area 1 = 191147			Recovery = 105.11%			
18) Acenaphthene-d10	3.947	164	111204	4000.000	ng/ml	0.00
Standard Area 1 = 104051			Recovery = 106.87%			
23) Phenanthrene-d10	4.794	188	248967	4000.000	ng/ml	0.00
Standard Area 1 = 234696			Recovery = 106.08%			
32) Chrysene-d12	6.345	240	239044	4000.000	ng/ml	0.00
Standard Area 1 = 218576			Recovery = 109.36%			
37) Perylene-d12	7.575	264	274550	4000.000	ng/ml	0.00
Standard Area 1 = 240994			Recovery = 113.92%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.656	112	69611	5245.566	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 104.91%			
4) Phenol-d6	2.077	99	80654	5253.592	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 105.07%			
8) Nitrobenzene-d5	2.563	82	65914	5524.227	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 220.97%#			
14) 2-Fluorobiphenyl	3.565	172	190015	4938.611	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 197.54%#			
22) 2,4,6-Tribromophenol	4.396	330	30196	5162.962	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 103.26%			
31) 4-Terphenyl-d14	5.706	244	251581	5285.202	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 211.41%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.133	93	70154	5068.053	ng/ml	98
6) n-nitrosodi-n-propylamine	2.480	70	46509	5558.043	ng/ml	99
7) Hexachloroethane	2.543	117	31727	5054.166	ng/ml	96
10) Naphthalene	2.970	128	249238	4942.125	ng/ml#	100
11) Hexachlorobutadiene	3.046	225	44333	4875.940	ng/ml	100
12) 2-Methylnaphthalene	3.358	142	165756	5120.119	ng/ml	100
13) 1-Methylnaphthalene	3.413	142	152970	5071.088	ng/ml	100
15) 2-Chloronaphthalene	3.632	162	166821	5033.847	ng/ml	99
16) 2,6-Dinitrotoluene	3.825	165	35571	4945.630	ng/ml	97
17) Acenaphthylene	3.865	152	268518	5504.520	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL8.D
Acq On : 26 Oct 2023 01:55 pm
Operator : SV125:ah
Sample : IL8,32,,5.0 Lot#10228
Misc : WG1845005,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 10:35:36 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:35 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.965	153	179891	4985.093	ng/ml	98
20) 2,4-Dinitrotoluene	4.054	165	49077	5188.965	ng/ml	93
21) Fluorene	4.259	166	199912	5252.629	ng/ml	99
24) 4,6-Dinitro-o-cresol	4.286	198	25637	5195.880	ng/ml#	85
25) Hexachlorobenzene	4.578	284	71531	4980.349	ng/ml	100
26) Pentachlorophenol	4.688	266	38836	4996.741	ng/ml	99
27) Phenanthrene	4.806	178	312278	5027.392	ng/ml	100
28) Anthracene	4.835	178	310100	5333.610	ng/ml	99
29) Fluoranthene	5.488	202	368605	5396.564	ng/ml	98
30) Pyrene	5.616	202	390702	5459.693	ng/ml	99
33) Benzo[a]anthracene	6.337	228	388765	5130.347	ng/ml	100
34) 3,3'-Dichlorobenzene	6.320	252	144019	5725.008	ng/ml	99
35) Chrysene	6.361	228	380552	4950.309	ng/ml	99
36) Bis(2-ethylhexyl)phtha...	6.361	149	205919	5209.926	ng/ml	98
38) Benzo[b]fluoranthene	7.201	252	407468	5507.336	ng/ml	99
39) Benzo[k]fluoranthene	7.226	252	395839	5392.575	ng/ml	100
40) Benzo[a]pyrene	7.515	252	369895	5703.321	ng/ml	99
41) Indeno[1,2,3-cd]pyrene	8.820	276	375451	5561.627	ng/ml	96
42) Dibenzo[a,h]anthracene	8.856	278	368933M6	5649.421	ng/ml	
43) Benzo[g,h,i]perylene	9.169	276	397282	5440.899	ng/ml	97

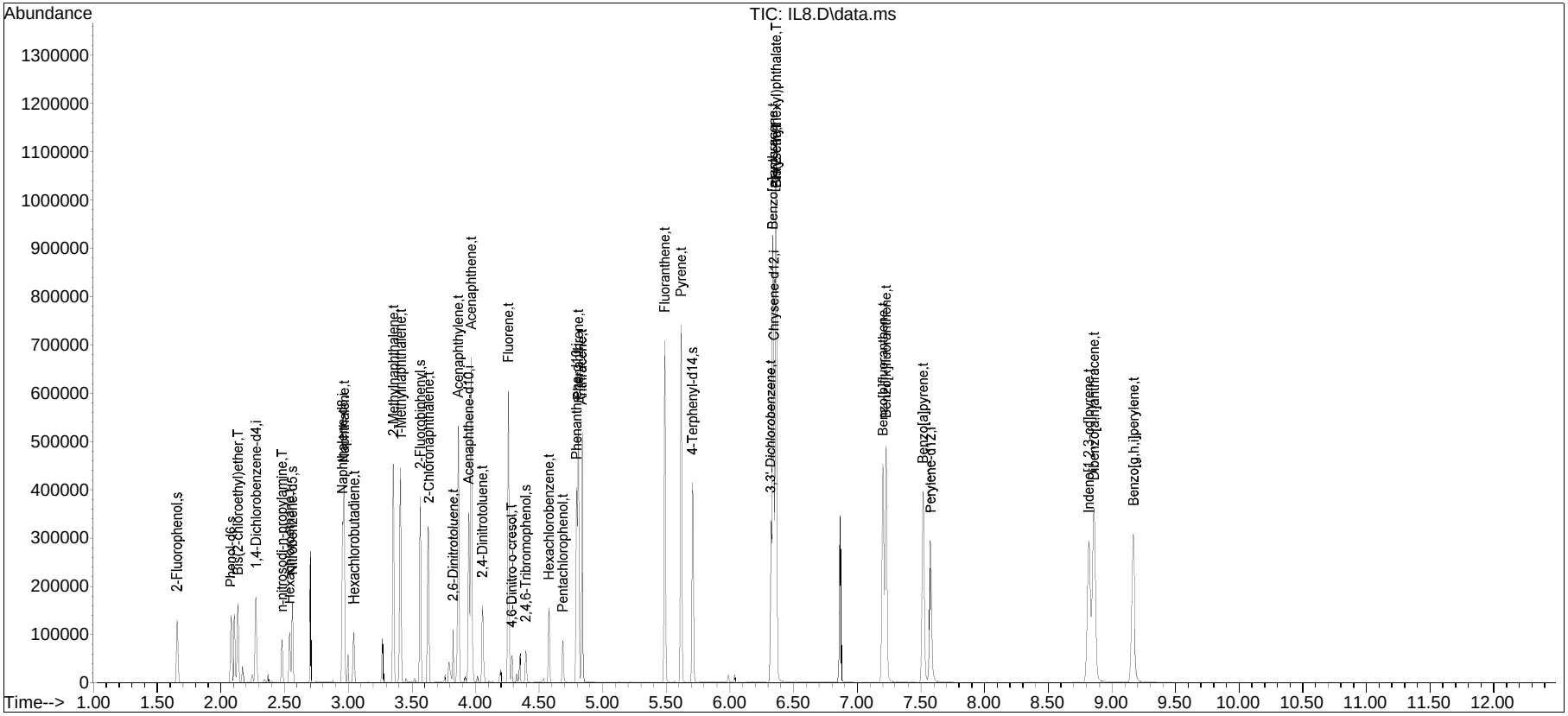
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL8.D
Acq On : 26 Oct 2023 01:55 pm
Operator : SV125:ah
Sample : IL8,32,,5.0 Lot#10228
Misc : WG1845005,,ical
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 10:35:36 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:35 2023
Response via : Initial Calibration

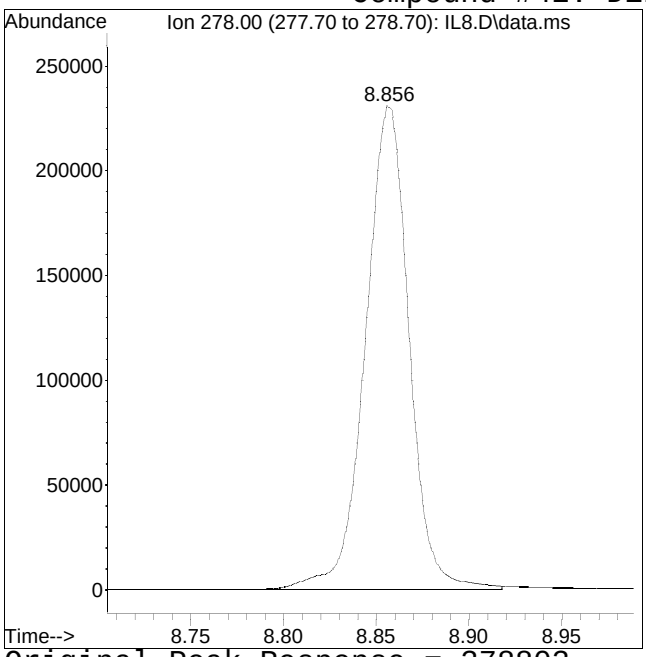
Sub List : Default - All compounds listedIical\IL7.D•



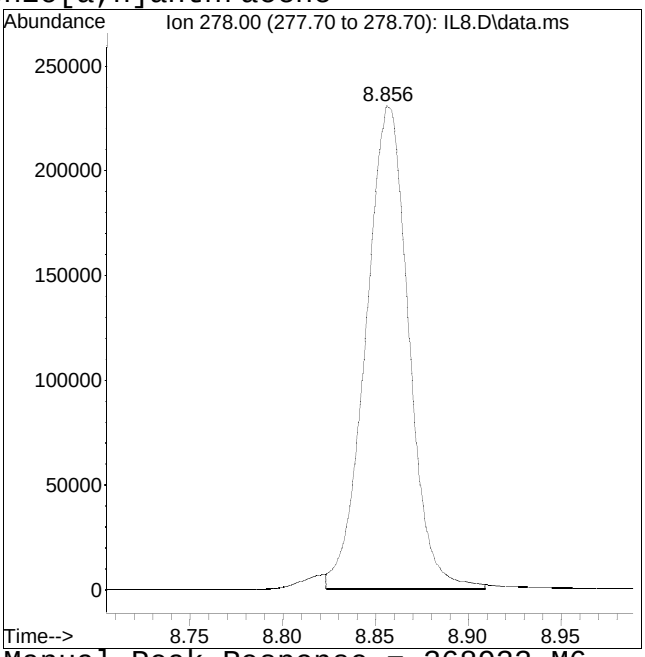
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL8.D Operator : SV125:ah
Date Inj'd : 10/26/2023 1:55 pm Instrument : SV125
Sample : IL8,32,,5.0 Lot#10228 Quant Date : 10/27/2023 10:35 am

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 378803



Manual Peak Response = 368933 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL7.D
Acq On : 26 Oct 2023 02:11 pm
Operator : SV125:ah
Sample : IL7,32,,1.0 Lot#10229
Misc : WG1845005,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 10:57:49 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:24 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.276	152	51814M1	4000.000	ng/ml	0.06
Standard Area 1 = 51814			Recovery = 100.00%			
9) Naphthalene-d8	2.955	136	191147	4000.000	ng/ml	0.07
Standard Area 1 = 191147			Recovery = 100.00%			
18) Acenaphthene-d10	3.948	164	104051	4000.000	ng/ml	0.09
Standard Area 1 = 104051			Recovery = 100.00%			
23) Phenanthrene-d10	4.792	188	234696	4000.000	ng/ml	0.10
Standard Area 1 = 234696			Recovery = 100.00%			
32) Chrysene-d12	6.342	240	218576	4000.000	ng/ml	0.14
Standard Area 1 = 218576			Recovery = 100.00%			
37) Perylene-d12	7.572	264	240994M1	4000.000	ng/ml	0.21
Standard Area 1 = 240994			Recovery = 100.00%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.659	112	13633	1037.333	ng/ml	0.05
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.75%			
4) Phenol-d6	2.075	99	15539	1022.035	ng/ml	0.05
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.44%			
8) Nitrobenzene-d5	2.564	82	12313	1042.005	ng/ml	0.07
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.68%			
14) 2-Fluorobiphenyl	3.563	172	37744	1031.085	ng/ml	0.08
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.24%			
22) 2,4,6-Tribromophenol	4.394	330	4866	942.424	ng/ml	0.09
Spiked Amount 5000.000	Range 15 - 110		Recovery = 18.85%			
31) 4-Terphenyl-d14	5.707	244	46605	1038.610	ng/ml	0.11
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.54%			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.135	93	14113	1029.486	ng/ml	98
6) n-nitrosodi-n-propylamine	2.481	70	8360M6	1008.796	ng/ml	
7) Hexachloroethane	2.544	117	6170	992.471	ng/ml	96
10) Naphthalene	2.968	128	48556	1011.980	ng/ml#	100
11) Hexachlorobutadiene	3.044	225	8658	1000.872	ng/ml	99
12) 2-Methylnaphthalene	3.356	142	31234	1014.070	ng/ml	99
13) 1-Methylnaphthalene	3.410	142	29156	1015.904	ng/ml	100
15) 2-Chloronaphthalene	3.630	162	31714	1005.843	ng/ml	99
16) 2,6-Dinitrotoluene	3.823	165	5251	830.526	ng/ml	98
17) Acenaphthylene	3.866	152	47544	1024.405	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL7.D
Acq On : 26 Oct 2023 02:11 pm
Operator : SV125:ah
Sample : IL7,32,,1.0 Lot#10229
Misc : WG1845005,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 10:57:49 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:24 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.963	153	33674	997.316	ng/ml	99
20) 2,4-Dinitrotoluene	4.052	165	6999	899.016	ng/ml	96
21) Fluorene	4.257	166	36424	1022.821	ng/ml	99
24) 4,6-Dinitro-o-cresol	4.284	198	3517	893.997	ng/ml#	80
25) Hexachlorobenzene	4.579	284	13611	1005.291	ng/ml	99
26) Pentachlorophenol	4.688	266	5726	1031.148	ng/ml	99
27) Phenanthrene	4.806	178	58928	1006.373	ng/ml	100
28) Anthracene	4.836	178	55571	1013.920	ng/ml	100
29) Fluoranthene	5.486	202	64791M6	1006.252	ng/ml	
30) Pyrene	5.617	202	68960	1022.247	ng/ml	99
33) Benzo[a]anthracene	6.334	228	65341	955.584	ng/ml	100
34) 3,3'-Dichlorobenzene	6.318	252	21672	942.173	ng/ml	99
35) Chrysene	6.359	228	69655	990.937	ng/ml	99
36) Bis(2-ethylhexyl)phtha...	6.359	149	26774	870.095	ng/ml	98
38) Benzo[b]fluoranthene	7.195	252	66013	1016.466	ng/ml	100
39) Benzo[k]fluoranthene	7.220	252	69582	1079.915	ng/ml	100
40) Benzo[a]pyrene	7.512	252	59165	1039.273	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.812	276	59481M3	1003.788	ng/ml	
42) Dibenzo[a,h]anthracene	8.847	278	60705M6	1059.000	ng/ml	
43) Benzo[g,h,i]perylene	9.158	276	66602M3	1039.141	ng/ml	

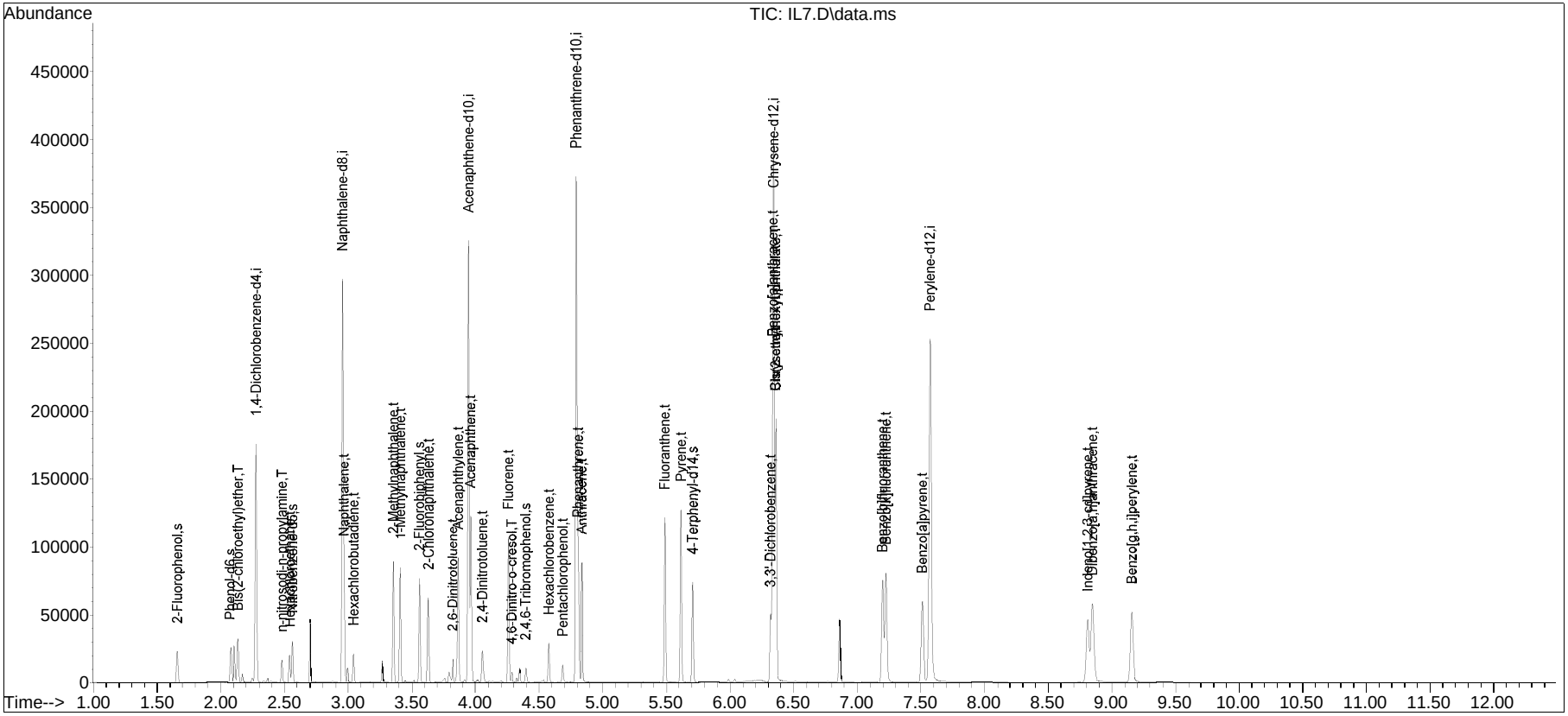
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL7.D
Acq On : 26 Oct 2023 02:11 pm
Operator : SV125:ah
Sample : IL7,32,,1.0 Lot#10229
Misc : WG1845005,,ical
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 27 10:57:49 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:24 2023
Response via : Initial Calibration

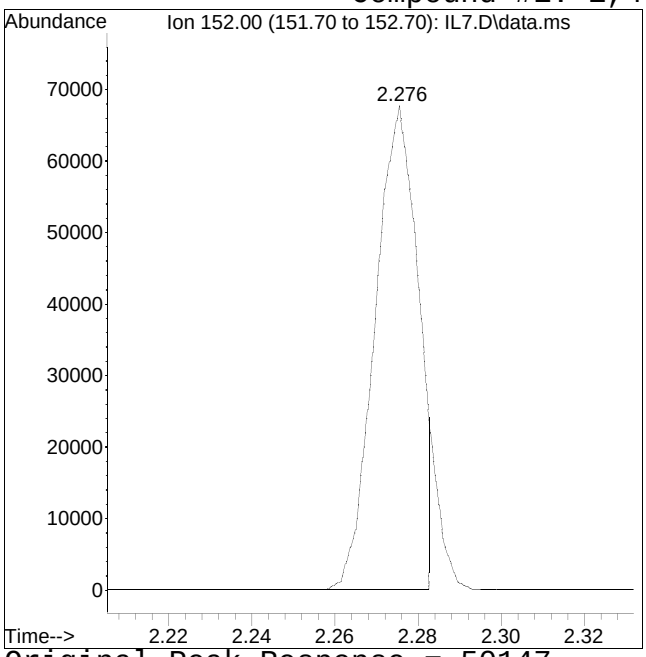
Sub List : Default - All compounds listedIical\IL7.D•

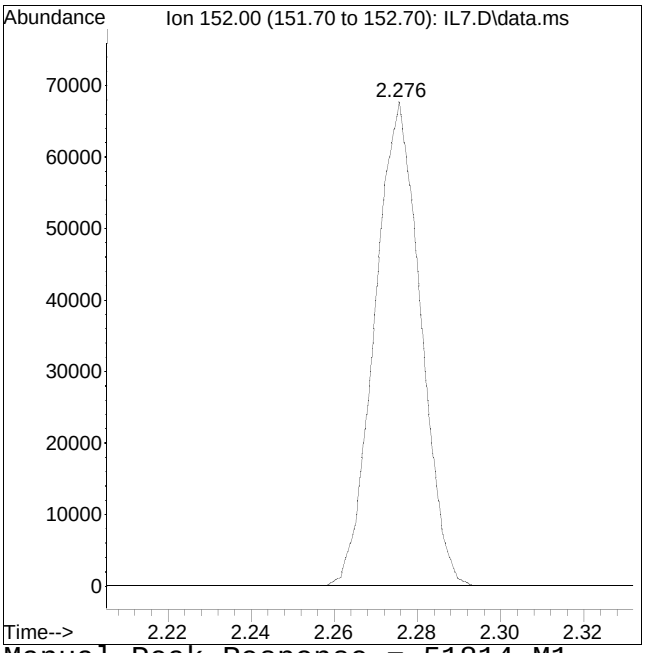


Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL7.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:11 pm Instrument : SV125
Sample : IL7,32,,1.0 Lot#10229 Quant Date : 10/27/2023 10:35 am

Compound #1: 1,4-Dichlorobenzene-d4



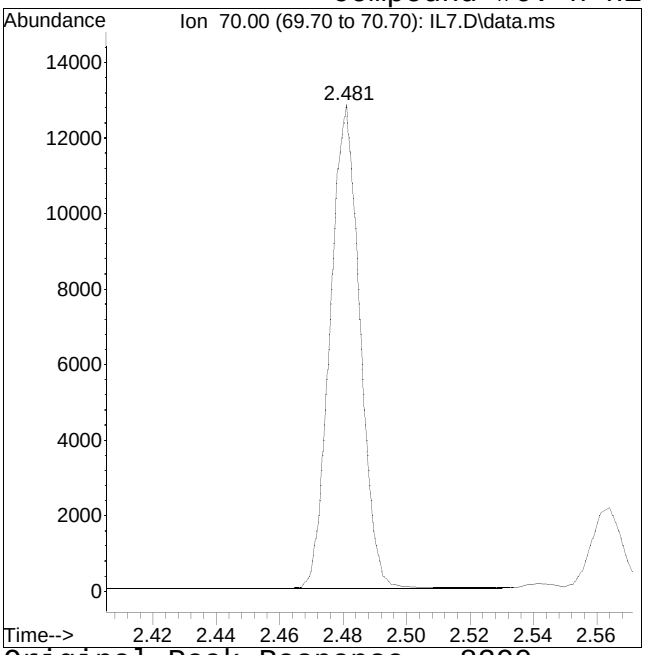


Original Peak Response = 50147 Manual Peak Response = 51814 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

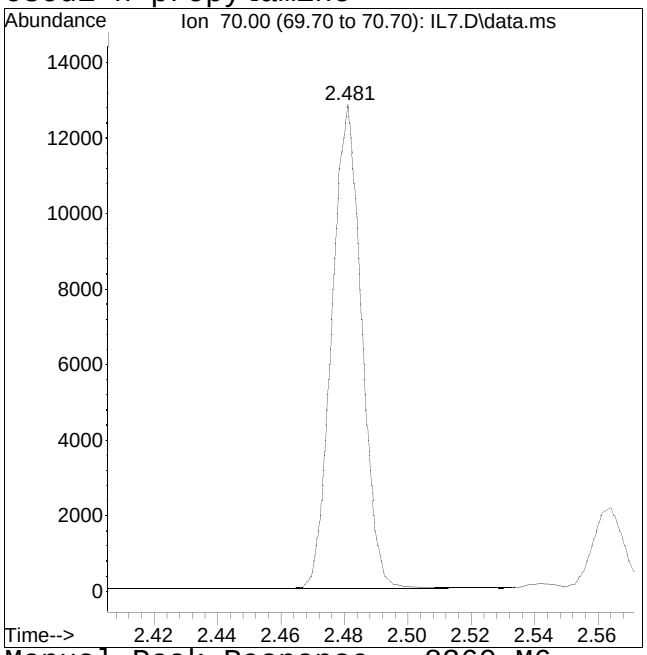
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL7.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:11 pm Instrument : SV125
Sample : IL7,32,,1.0 Lot#10229 Quant Date : 10/27/2023 10:35 am

Compound #6: n-nitrosodi-n-propylamine



Original Peak Response = 8390



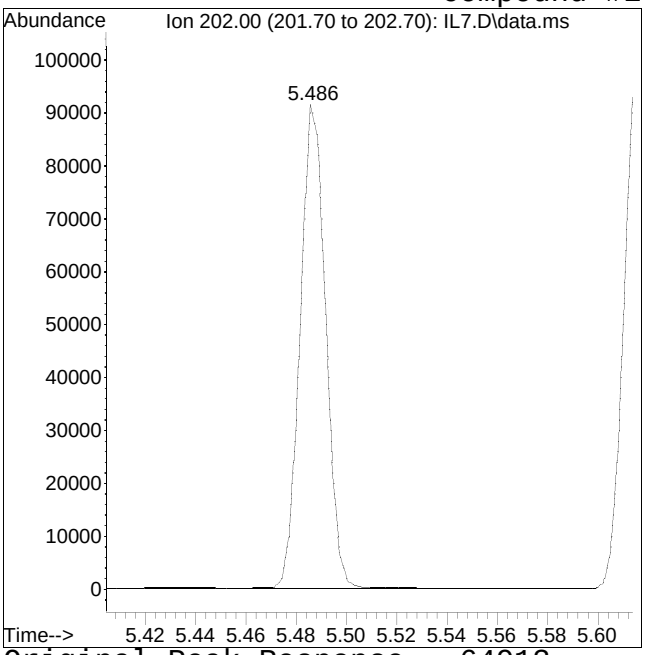
Manual Peak Response = 8360 M6

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

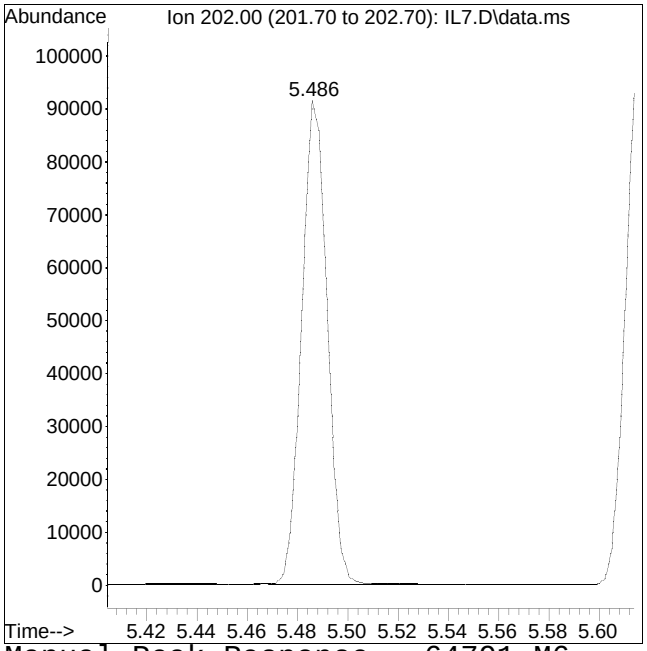
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL7.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:11 pm Instrument : SV125
Sample : IL7,32,,1.0 Lot#10229 Quant Date : 10/27/2023 10:35 am

Compound #29: Fluoranthene



Original Peak Response = 64913



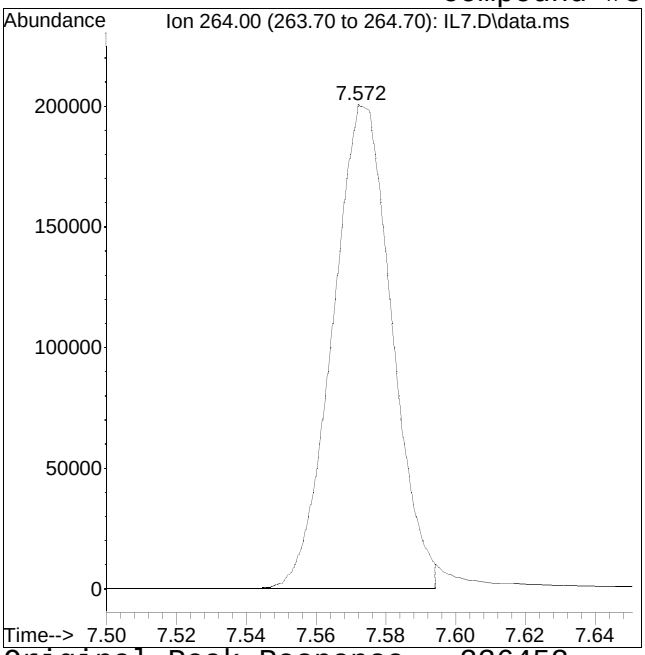
Manual Peak Response = 64791 M6

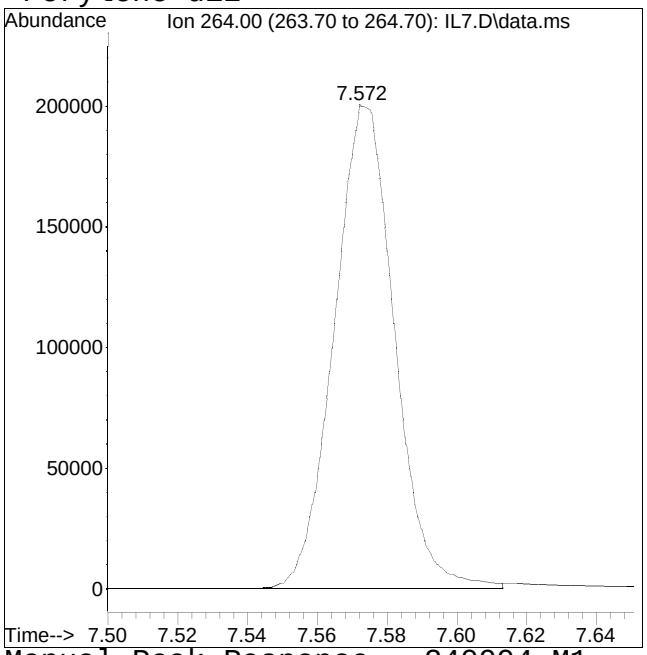
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL7.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:11 pm Instrument : SV125
Sample : IL7,32,,1.0 Lot#10229 Quant Date : 10/27/2023 10:35 am

Compound #37: Perylene-d12



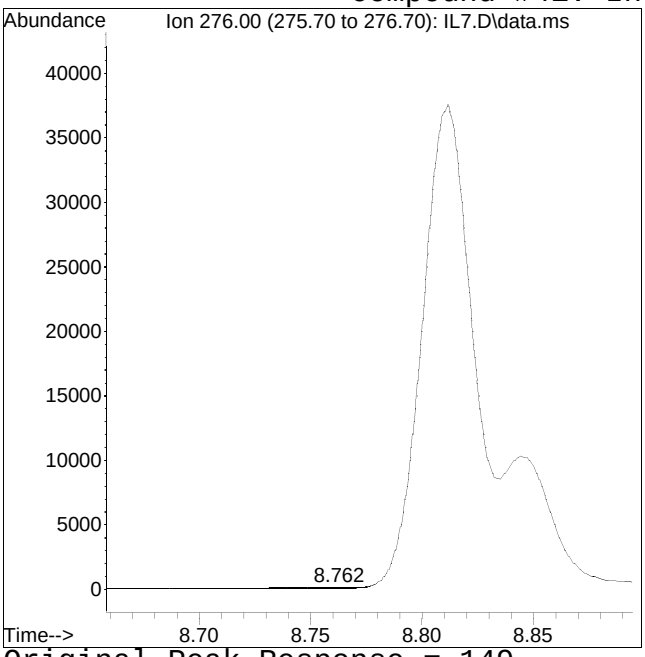


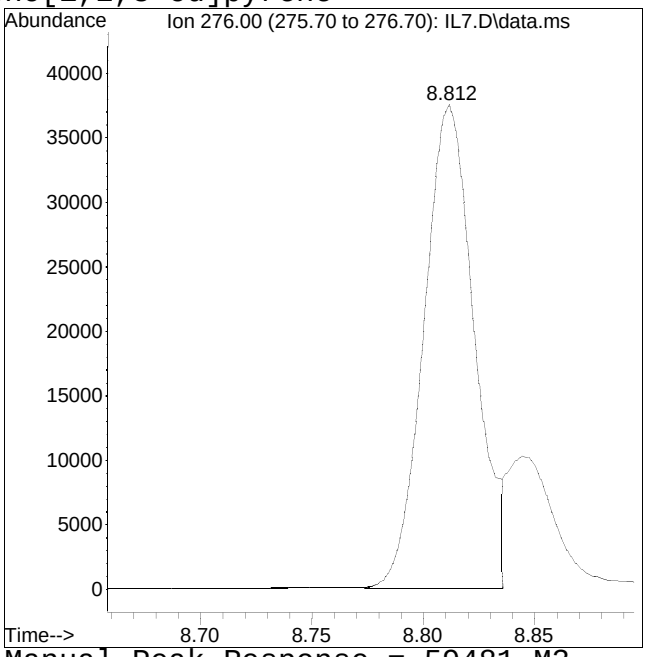
Original Peak Response = 236452 Manual Peak Response = 240994 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL7.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:11 pm Instrument : SV125
Sample : IL7,32,,1.0 Lot#10229 Quant Date : 10/27/2023 10:35 am

Compound #41: Indeno[1,2,3-cd]pyrene



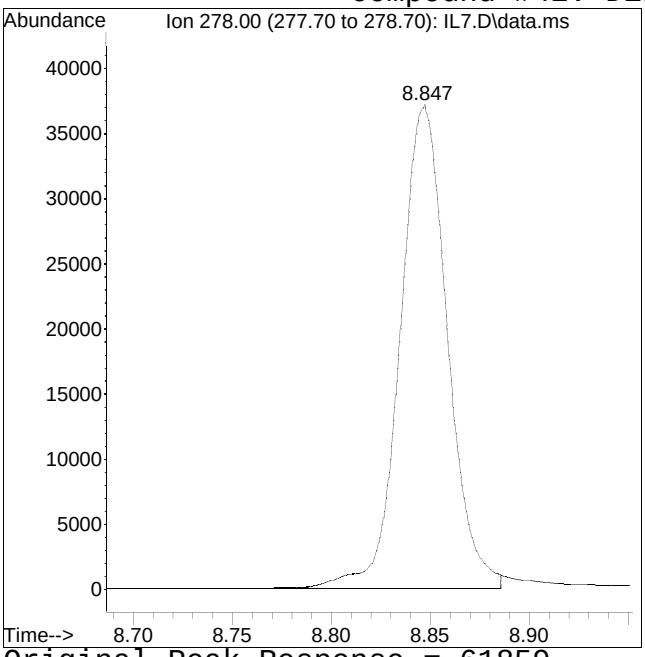


Original Peak Response = 149 Manual Peak Response = 59481 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

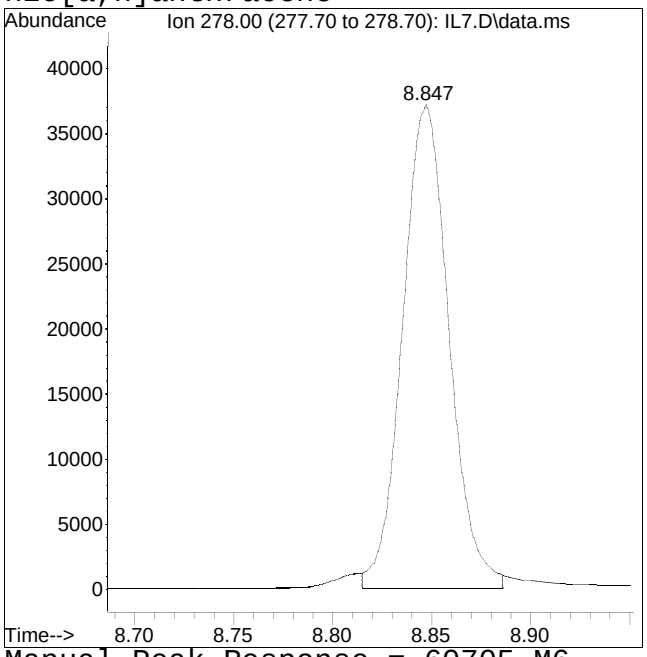
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL7.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:11 pm Instrument : SV125
Sample : IL7,32,,1.0 Lot#10229 Quant Date : 10/27/2023 10:35 am

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 61859



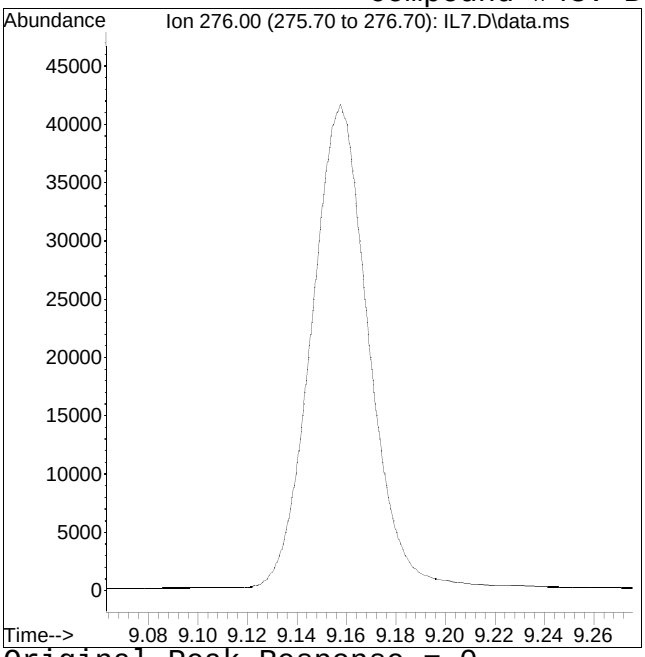
Manual Peak Response = 60705 M6

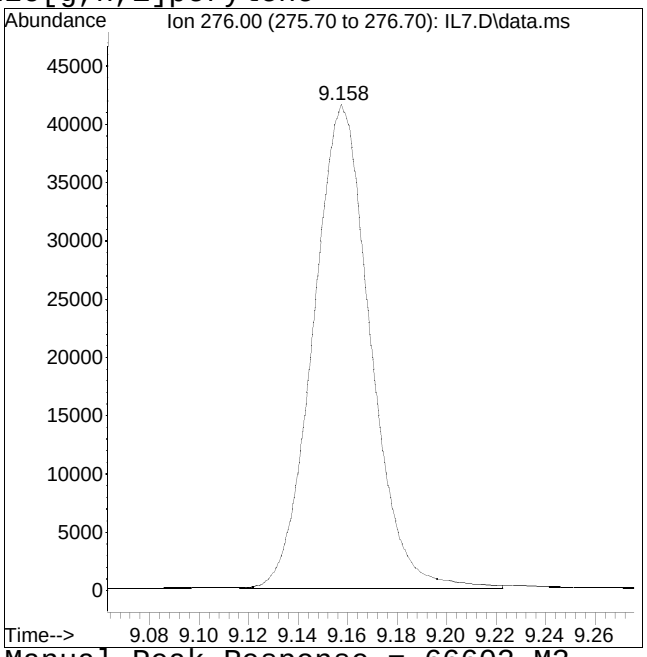
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL7.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:11 pm Instrument : SV125
Sample : IL7,32,,1.0 Lot#10229 Quant Date : 10/27/2023 10:35 am

Compound #43: Benzo[g,h,i]perylene





Original Peak Response = 0 Manual Peak Response = 66602 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL6.D
Acq On : 26 Oct 2023 02:27 pm
Operator : SV125:ah
Sample : IL6,32,,0.25 Lot#10230
Misc : WG1845005,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 10:35:16 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:14 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.273	152	51888	4000.000	ng/ml	0.00
Standard Area 1 = 51814			Recovery = 100.14%			
9) Naphthalene-d8	2.956	136	187675	4000.000	ng/ml	0.00
Standard Area 1 = 191147			Recovery = 98.18%			
18) Acenaphthene-d10	3.946	164	100663	4000.000	ng/ml	0.00
Standard Area 1 = 104051			Recovery = 96.74%			
23) Phenanthrene-d10	4.793	188	226969	4000.000	ng/ml	0.00
Standard Area 1 = 234696			Recovery = 96.71%			
32) Chrysene-d12	6.343	240	207364	4000.000	ng/ml	0.00
Standard Area 1 = 218576			Recovery = 94.87%			
37) Perylene-d12	7.576	264	226407	4000.000	ng/ml	0.00
Standard Area 1 = 240994			Recovery = 93.95%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.656	112	3301	250.814	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 5.02%#			
4) Phenol-d6	2.076	99	3740	245.637	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 4.91%#			
8) Nitrobenzene-d5	2.562	82	2911	245.996	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 9.84%#			
14) 2-Fluorobiphenyl	3.564	172	9337	259.786	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 10.39%#			
22) 2,4,6-Tribromophenol	4.395	330	1015	216.363	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 4.33%#			
31) 4-Terphenyl-d14	5.705	244	11082	255.374	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 10.21%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.132	93	3463	252.251	ng/ml	98
6) n-nitrosodi-n-propylamine	2.482	70	1988	239.549	ng/ml	100
7) Hexachloroethane	2.542	117	1534	246.399	ng/ml	97
10) Naphthalene	2.965	128	12097	256.784	ng/ml#	100
11) Hexachlorobutadiene	3.042	225	2179	256.554	ng/ml	100
12) 2-Methylnaphthalene	3.353	142	7673	253.727	ng/ml	100
13) 1-Methylnaphthalene	3.411	142	7152	253.813	ng/ml	99
15) 2-Chloronaphthalene	3.628	162	7851	253.609	ng/ml	99
16) 2,6-Dinitrotoluene	3.821	165	1162	232.298	ng/ml	97
17) Acenaphthylene	3.863	152	11119	244.007	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL6.D
Acq On : 26 Oct 2023 02:27 pm
Operator : SV125:ah
Sample : IL6,32,,0.25 Lot#10230
Misc : WG1845005,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 10:35:16 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:14 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.964	153	8221	251.674	ng/ml	97
20) 2,4-Dinitrotoluene	4.053	165	1440	216.307	ng/ml	91
21) Fluorene	4.258	166	8584	249.160	ng/ml	98
24) 4,6-Dinitro-o-cresol	4.285	198	667	208.398	ng/ml	91
25) Hexachlorobenzene	4.577	284	3358M6	256.461	ng/ml	
26) Pentachlorophenol	4.686	266	1083	228.730	ng/ml	99
27) Phenanthrene	4.804	178	14430	254.826	ng/ml	99
28) Anthracene	4.834	178	13077	246.719	ng/ml	100
29) Fluoranthene	5.487	202	15411	247.493	ng/ml	99
30) Pyrene	5.615	202	16051	246.037	ng/ml	99
33) Benzo[a]anthracene	6.335	228	15381	233.738	ng/ml	99
34) 3,3'-Dichlorobenzene	6.319	252	4776	218.859	ng/ml	99
35) Chrysene	6.360	228	16681	250.141	ng/ml	97
36) Bis(2-ethylhexyl)phtha...	6.360	149	5855M6	223.197	ng/ml	
38) Benzo[b]fluoranthene	7.195	252	14943	244.916	ng/ml	96
39) Benzo[k]fluoranthene	7.221	252	15320	253.086	ng/ml	96
40) Benzo[a]pyrene	7.510	252	12896	241.122	ng/ml	99
41) Indeno[1,2,3-cd]pyrene	8.812	276	13254	238.082	ng/ml	97
42) Dibenzo[a,h]anthracene	8.848	278	13045M6	242.232	ng/ml	
43) Benzo[g,h,i]perylene	9.155	276	14580	242.137	ng/ml	98

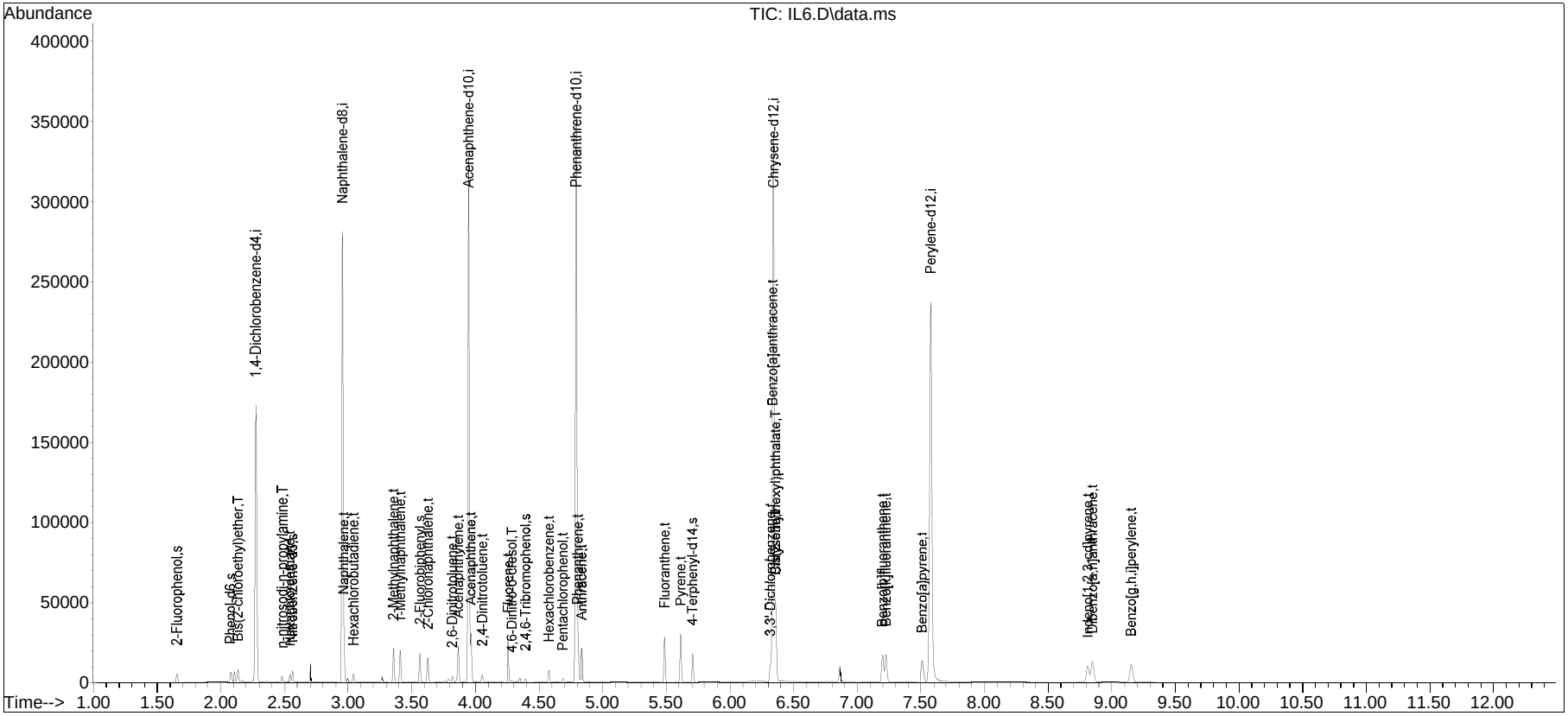
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL6.D
Acq On : 26 Oct 2023 02:27 pm
Operator : SV125:ah
Sample : IL6,32,,0.25 Lot#10230
Misc : WG1845005,,ical
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 10:35:16 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:14 2023
Response via : Initial Calibration

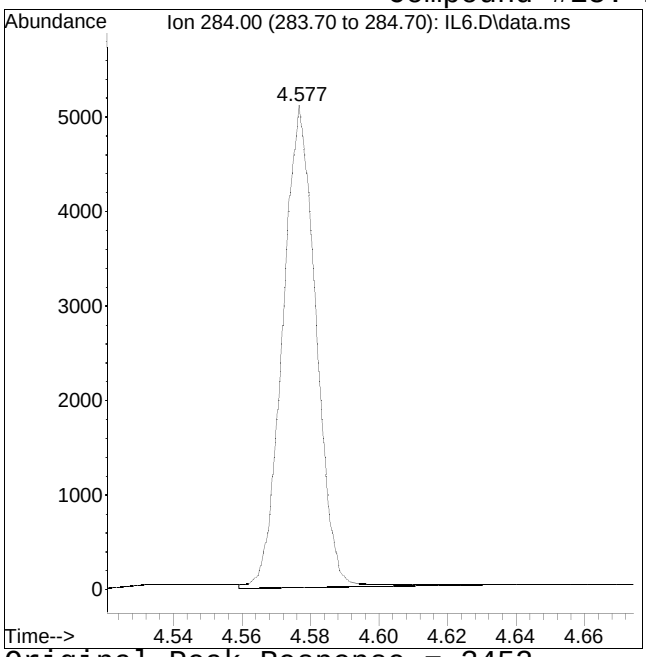
Sub List : Default - All compounds listedIical\IL7.D•



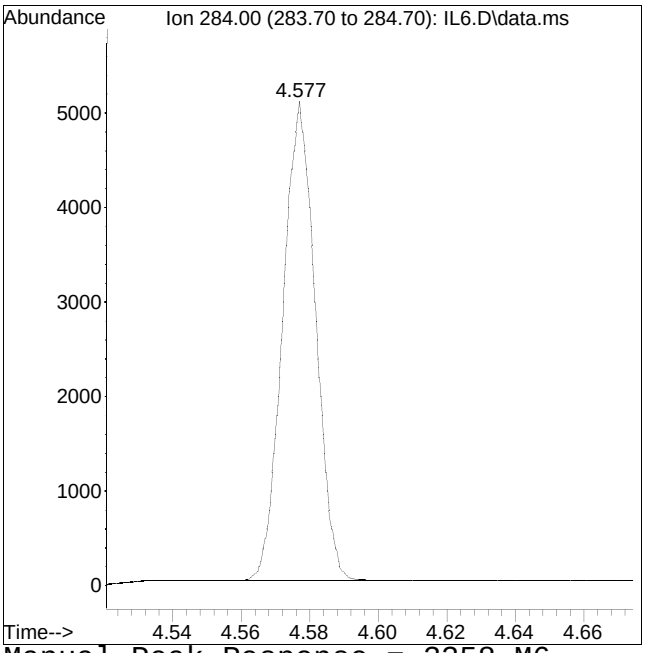
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL6.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:27 pm Instrument : SV125
Sample : IL6,32,,0.25 Lot#10230 Quant Date : 10/27/2023 10:35 am

Compound #25: Hexachlorobenzene



Original Peak Response = 3452



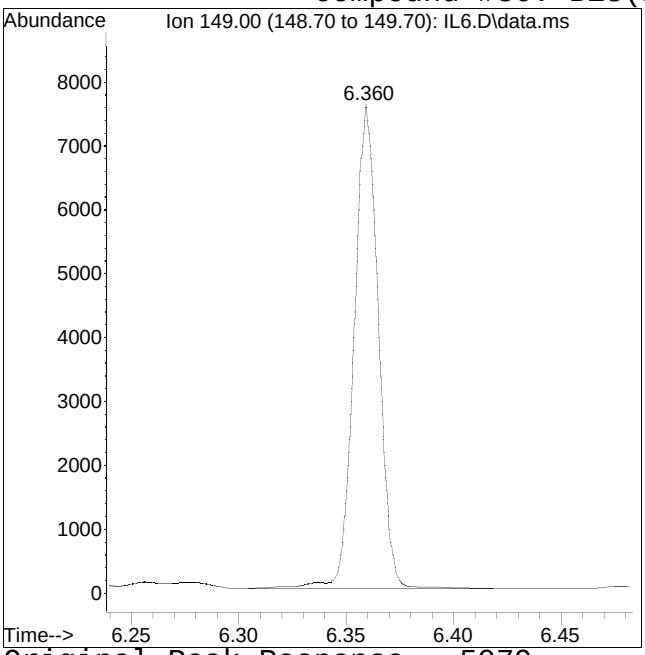
Manual Peak Response = 3358 M6

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

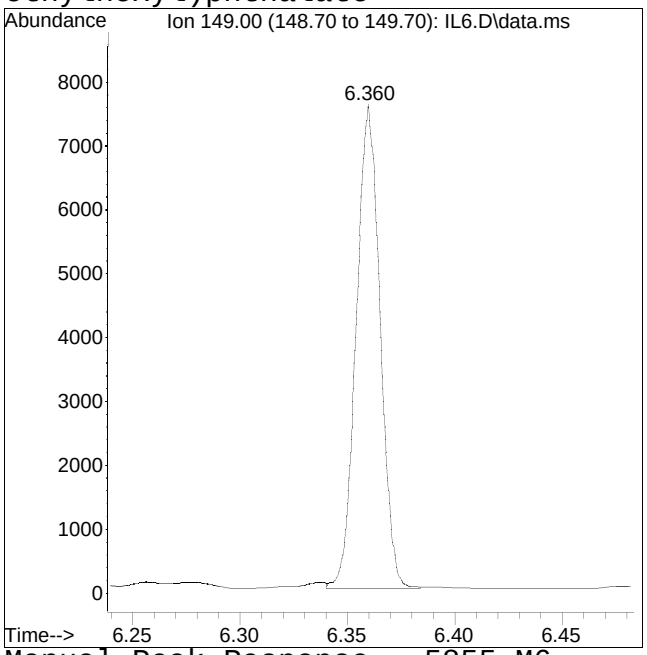
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL6.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:27 pm Instrument : SV125
Sample : IL6,32,,0.25 Lot#10230 Quant Date : 10/27/2023 10:35 am

Compound #36: Bis(2-ethylhexyl)phthalate



Original Peak Response = 5979



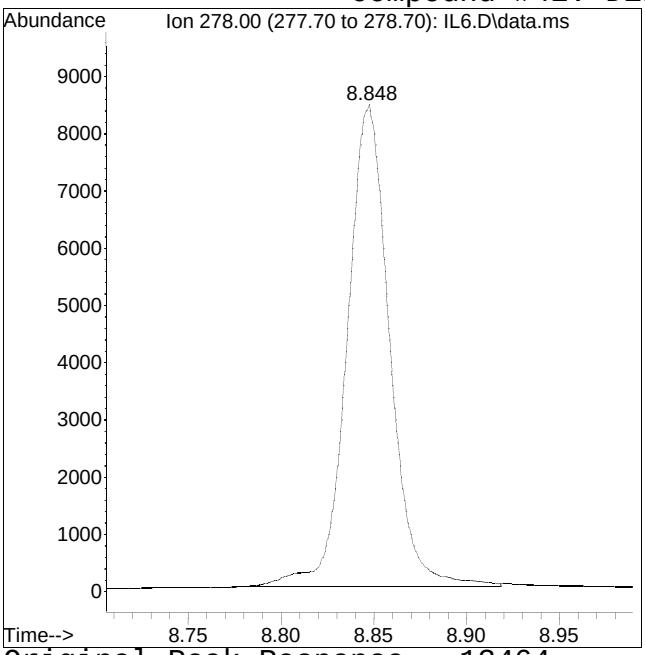
Manual Peak Response = 5855 M6

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

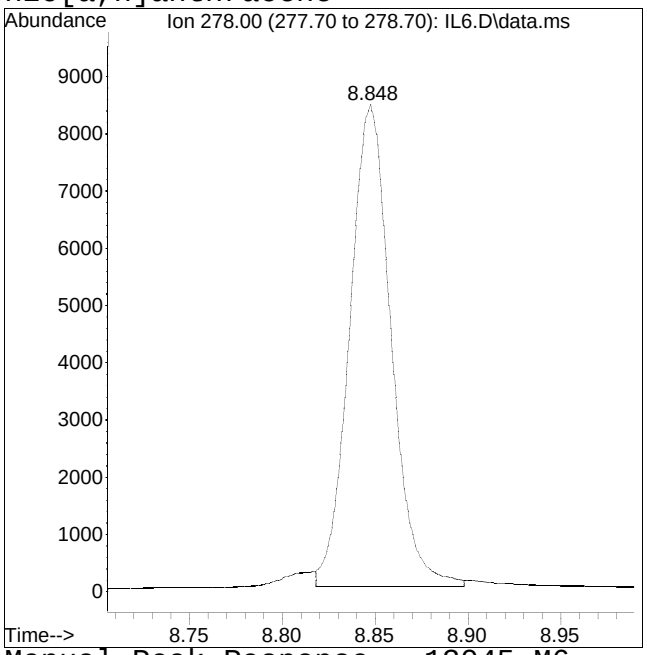
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL6.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:27 pm Instrument : SV125
Sample : IL6,32,,0.25 Lot#10230 Quant Date : 10/27/2023 10:35 am

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 13464



Manual Peak Response = 13045 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL5.D
Acq On : 26 Oct 2023 02:43 pm
Operator : SV125:ah
Sample : IL5,32,,0.1 Lot#10231
Misc : WG1845005,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 10:56:50 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:04 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.274	152	52582	4000.000	ng/ml	0.00
Standard Area 1 = 51814			Recovery = 101.48%			
9) Naphthalene-d8	2.954	136	190563	4000.000	ng/ml	0.00
Standard Area 1 = 191147			Recovery = 99.69%			
18) Acenaphthene-d10	3.947	164	100887	4000.000	ng/ml	0.00
Standard Area 1 = 104051			Recovery = 96.96%			
23) Phenanthrene-d10	4.791	188	228629	4000.000	ng/ml	0.00
Standard Area 1 = 234696			Recovery = 97.41%			
32) Chrysene-d12	6.341	240	208836	4000.000	ng/ml	0.00
Standard Area 1 = 218576			Recovery = 95.54%			
37) Perylene-d12	7.574	264	225908	4000.000	ng/ml	0.00
Standard Area 1 = 240994			Recovery = 93.74%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.656	112	1288	96.572	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.93%#			
4) Phenol-d6	2.077	99	1476	95.662	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.91%#			
8) Nitrobenzene-d5	2.563	82	1120	93.397	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 3.74%#			
14) 2-Fluorobiphenyl	3.562	172	3723	102.016	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 4.08%#			
22) 2,4,6-Tribromophenol	4.393	330	371	88.377	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 1.77%#			
31) 4-Terphenyl-d14	5.706	244	4350	99.514	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 3.98%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.133	93	1390	99.914	ng/ml	96
6) n-nitrosodi-n-propylamine	2.480	70	786	93.461	ng/ml	96
7) Hexachloroethane	2.543	117	602	95.420	ng/ml	99
10) Naphthalene	2.966	128	4828	100.931	ng/ml#	99
11) Hexachlorobutadiene	3.043	225	866	100.417	ng/ml	98
12) 2-Methylnaphthalene	3.354	142	3008	97.960	ng/ml	99
13) 1-Methylnaphthalene	3.409	142	2831	98.945	ng/ml	99
15) 2-Chloronaphthalene	3.629	162	3115	99.098	ng/ml	98
16) 2,6-Dinitrotoluene	3.822	165	436	122.194	ng/ml	98
17) Acenaphthylene	3.865	152	4337	93.733	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL5.D
Acq On : 26 Oct 2023 02:43 pm
Operator : SV125:ah
Sample : IL5,32,,0.1 Lot#10231
Misc : WG1845005,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 10:56:50 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:04 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.962	153	3283	100.281	ng/ml	90
20) 2,4-Dinitrotoluene	4.051	165	538	98.285	ng/ml	90
21) Fluorene	4.256	166	3360	97.311	ng/ml	97
24) 4,6-Dinitro-o-cresol	4.283	198	238	97.488	ng/ml	93
25) Hexachlorobenzene	4.578	284	1340M6	101.597	ng/ml	
26) Pentachlorophenol	4.687	266	366	89.265	ng/ml	99
27) Phenanthrene	4.803	178	5654M6	99.121	ng/ml	
28) Anthracene	4.832	178	5165	96.739	ng/ml	100
29) Fluoranthene	5.485	202	6034	96.199	ng/ml	99
30) Pyrene	5.616	202	6332	96.355	ng/ml	100
33) Benzo[a]anthracene	6.333	228	6201	90.350	ng/ml	96
34) 3,3'-Dichlorobenzene	6.317	252	1826	83.086	ng/ml	99
35) Chrysene	6.358	228	6961	103.648	ng/ml	99
36) Bis(2-ethylhexyl)phtha...	6.358	149	2204M6	98.597	ng/ml	
38) Benzo[b]fluoranthene	7.194	252	5786	95.042	ng/ml	96
39) Benzo[k]fluoranthene	7.219	252	5885	97.435	ng/ml	97
40) Benzo[a]pyrene	7.508	252	4910	92.007	ng/ml	99
41) Indeno[1,2,3-cd]pyrene	8.808	276	4952	89.150	ng/ml	96
42) Dibenzo[a,h]anthracene	8.846	278	4927M6	91.691	ng/ml	
43) Benzo[g,h,i]perylene	9.153	276	5677	94.489	ng/ml	99

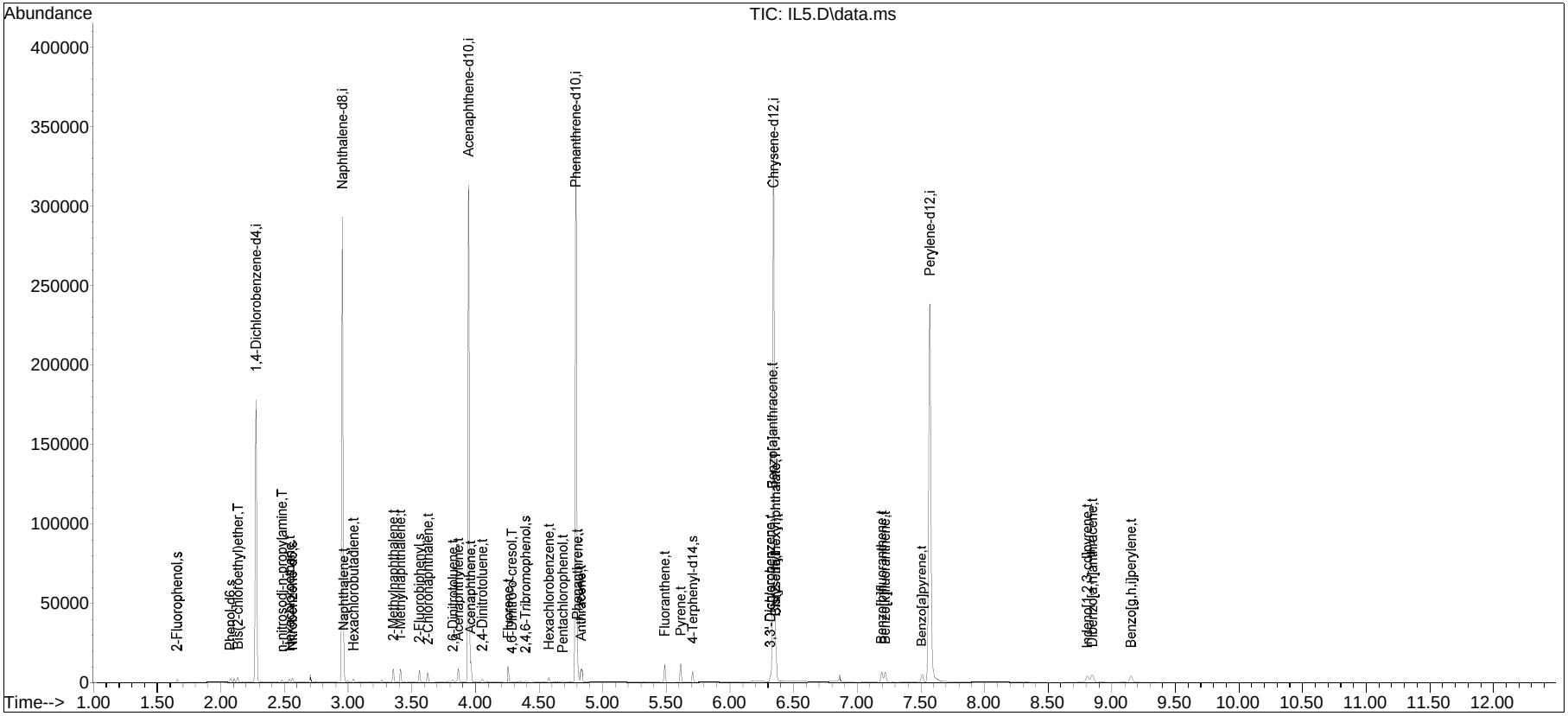
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL5.D
Acq On : 26 Oct 2023 02:43 pm
Operator : SV125:ah
Sample : IL5,32,,0.1 Lot#10231
Misc : WG1845005,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 10:56:50 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:35:04 2023
Response via : Initial Calibration

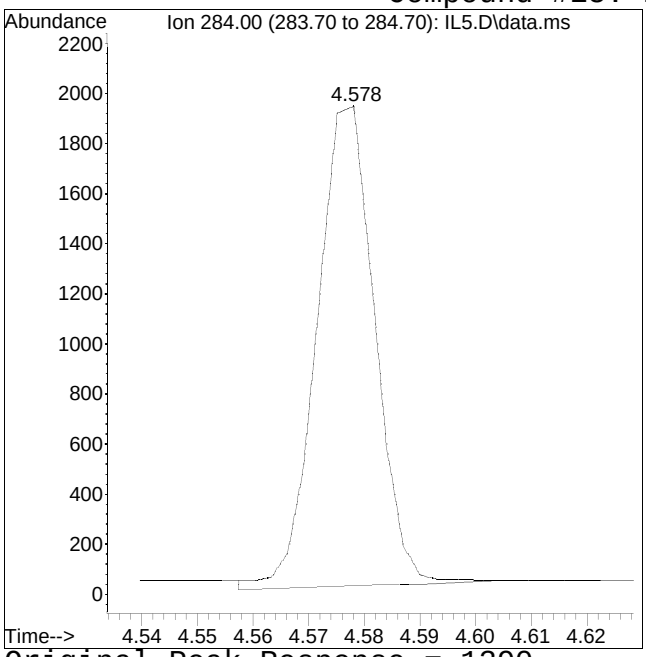
Sub List : Default - All compounds listedIical\IL7.D•



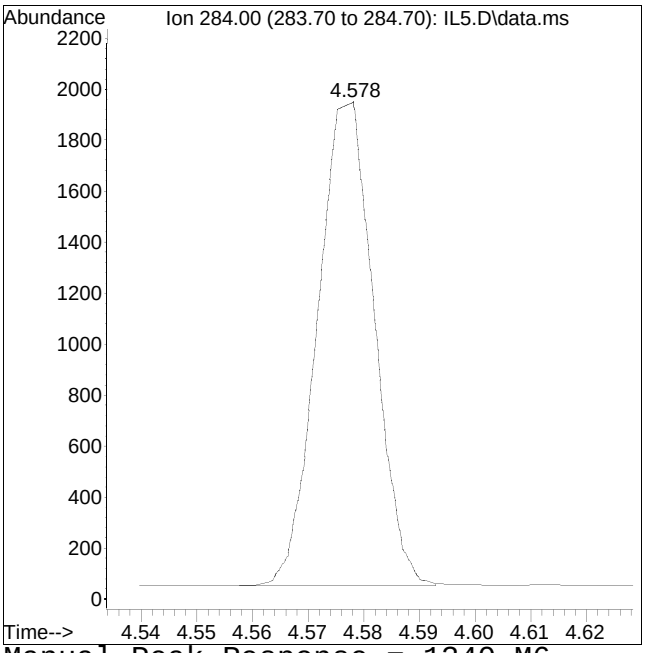
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL5.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:43 pm Instrument : SV125
Sample : IL5,32,,0.1 Lot#10231 Quant Date : 10/27/2023 10:35 am

Compound #25: Hexachlorobenzene



Original Peak Response = 1390



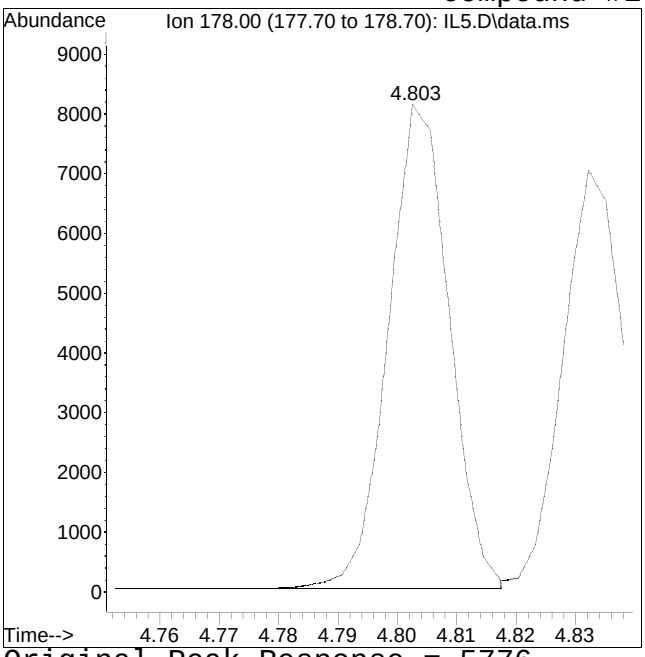
Manual Peak Response = 1340 M6

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

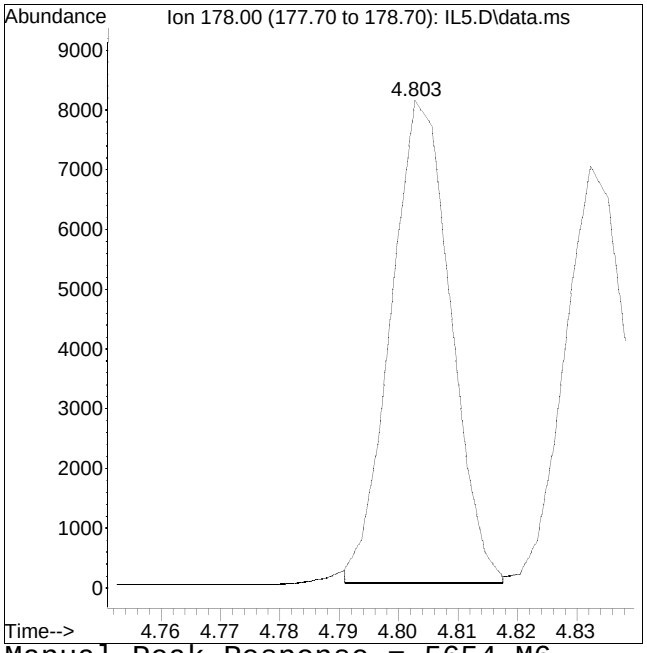
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL5.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:43 pm Instrument : SV125
Sample : IL5,32,,0.1 Lot#10231 Quant Date : 10/27/2023 10:35 am

Compound #27: Phenanthrene



Original Peak Response = 5776



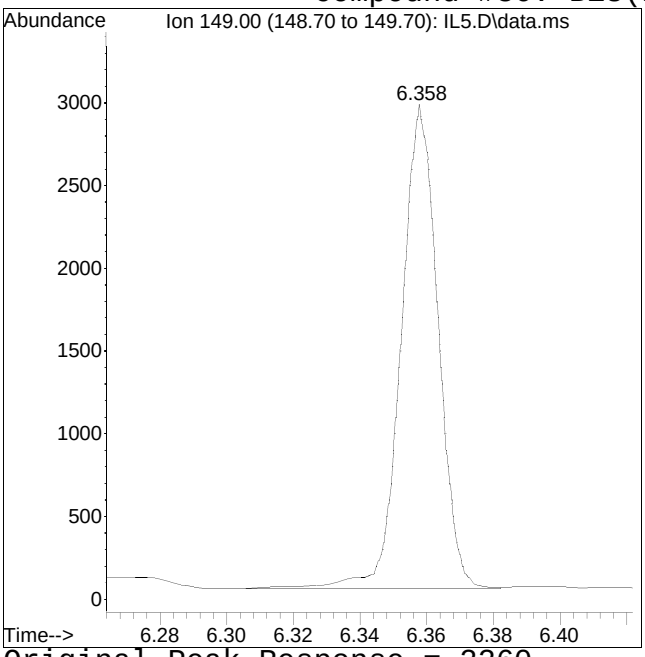
Manual Peak Response = 5654 M6

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

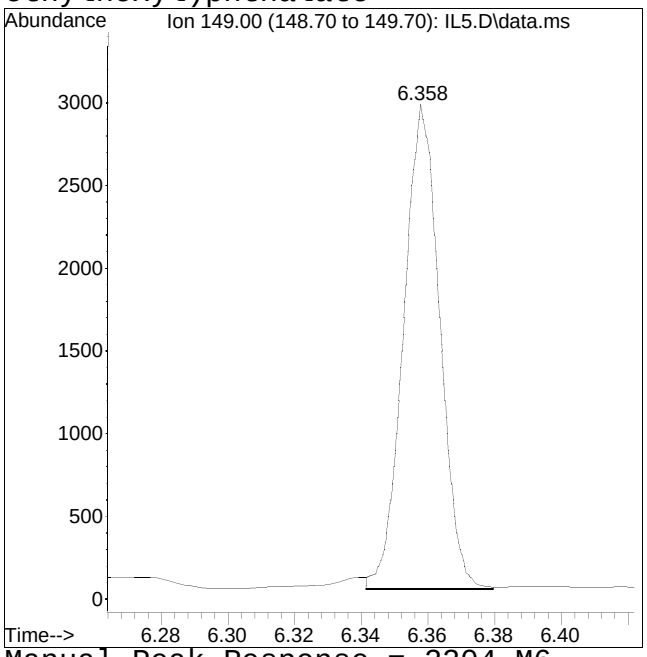
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL5.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:43 pm Instrument : SV125
Sample : IL5,32,,0.1 Lot#10231 Quant Date : 10/27/2023 10:35 am

Compound #36: Bis(2-ethylhexyl)phthalate



Original Peak Response = 2260



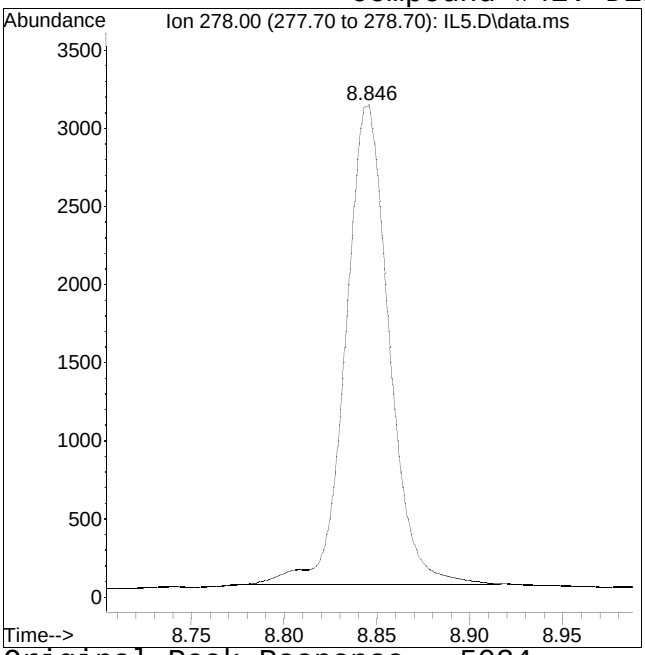
Manual Peak Response = 2204 M6

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

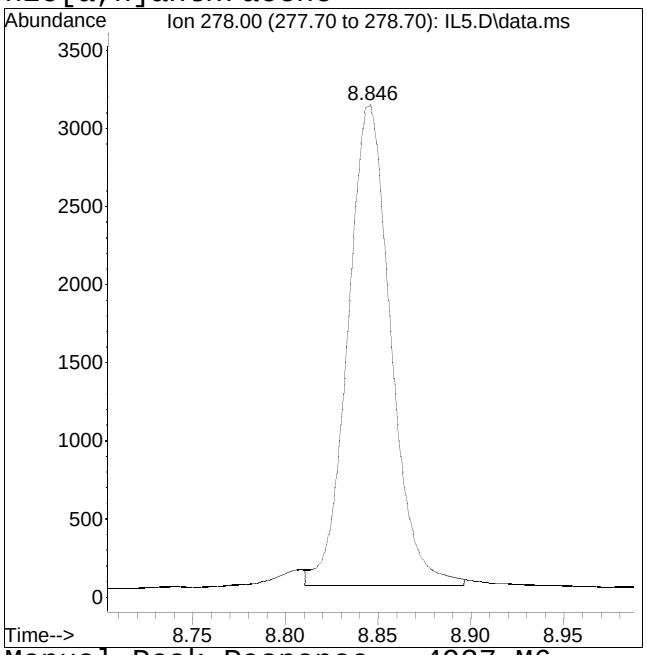
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL5.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:43 pm Instrument : SV125
Sample : IL5,32,,0.1 Lot#10231 Quant Date : 10/27/2023 10:35 am

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 5034



Manual Peak Response = 4927 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL4.D
Acq On : 26 Oct 2023 02:59 pm
Operator : SV125:ah
Sample : IL4,32,,0.05 Lot#10232
Misc : WG1845005,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 10:34:55 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:34:54 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.275	152	51549	4000.000	ng/ml	0.00
Standard Area 1 = 51814			Recovery = 99.49%			
9) Naphthalene-d8	2.955	136	187433	4000.000	ng/ml	0.00
Standard Area 1 = 191147			Recovery = 98.06%			
18) Acenaphthene-d10	3.945	164	99335	4000.000	ng/ml	0.00
Standard Area 1 = 104051			Recovery = 95.47%			
23) Phenanthrene-d10	4.792	188	222567	4000.000	ng/ml	0.00
Standard Area 1 = 234696			Recovery = 94.83%			
32) Chrysene-d12	6.342	240	202279	4000.000	ng/ml	0.00
Standard Area 1 = 218576			Recovery = 92.54%			
37) Perylene-d12	7.575	264	217596	4000.000	ng/ml	0.00
Standard Area 1 = 240994			Recovery = 90.29%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.656	112	632	48.336	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.97%#			
4) Phenol-d6	2.075	99	720	47.599	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.95%#			
8) Nitrobenzene-d5	2.564	82	544	46.273	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.85%#			
14) 2-Fluorobiphenyl	3.563	172	1829	50.954	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 2.04%#			
22) 2,4,6-Tribromophenol	4.394	330	172M6	49.427	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.99%#			
31) 4-Terphenyl-d14	5.707	244	2097	49.279	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.97%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.135	93	676	49.565	ng/ml	97
6) n-nitrosodi-n-propylamine	2.481	70	370	44.877	ng/ml	99
7) Hexachloroethane	2.541	117	307	49.636	ng/ml	95
10) Naphthalene	2.967	128	2354	50.033	ng/ml#	97
11) Hexachlorobutadiene	3.044	225	430	50.693	ng/ml	98
12) 2-Methylnaphthalene	3.355	142	1495	49.500	ng/ml	99
13) 1-Methylnaphthalene	3.410	142	1385	49.215	ng/ml	99
15) 2-Chloronaphthalene	3.630	162	1516	49.034	ng/ml	99
16) 2,6-Dinitrotoluene	3.823	165	214	89.843	ng/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL4.D
Acq On : 26 Oct 2023 02:59 pm
Operator : SV125:ah
Sample : IL4,32,,0.05 Lot#10232
Misc : WG1845005,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 10:34:55 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:34:54 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Acenaphthylene	3.862	152	2088	45.880	ng/ml	99
19) Acenaphthene	3.963	153	1631	50.598	ng/ml	91
20) 2,4-Dinitrotoluene	4.051	165	250	61.098	ng/ml#	86
21) Fluorene	4.257	166	1613	47.445	ng/ml	96
24) 4,6-Dinitro-o-cresol	4.284	198	102	63.265	ng/ml#	83
25) Hexachlorobenzene	4.576	284	642M6	50.001	ng/ml	
26) Pentachlorophenol	4.688	266	146	47.089	ng/ml	96
27) Phenanthrene	4.803	178	2696M6	48.551	ng/ml	
28) Anthracene	4.833	178	2490	47.907	ng/ml	100
29) Fluoranthene	5.486	202	2909	47.641	ng/ml	99
30) Pyrene	5.614	202	3017	47.161	ng/ml	99
33) Benzo[a]anthracene	6.337	228	3157	44.906	ng/ml#	91
34) 3,3'-Dichlorobenzene	6.318	252	876	41.152	ng/ml	97
35) Chrysene	6.359	228	3347	51.452	ng/ml	99
36) Bis(2-ethylhexyl)phtha...	6.359	149	1057M6	60.837	ng/ml	
38) Benzo[b]fluoranthene	7.194	252	2731	46.574	ng/ml	100
39) Benzo[k]fluoranthene	7.219	252	2737	47.046	ng/ml	100
40) Benzo[a]pyrene	7.512	252	2322	45.173	ng/ml	99
41) Indeno[1,2,3-cd]pyrene	8.808	276	2318	43.324	ng/ml	97
42) Dibenzo[a,h]anthracene	8.847	278	2279	44.032	ng/ml	99
43) Benzo[g,h,i]perylene	9.154	276	2629	45.429	ng/ml	98

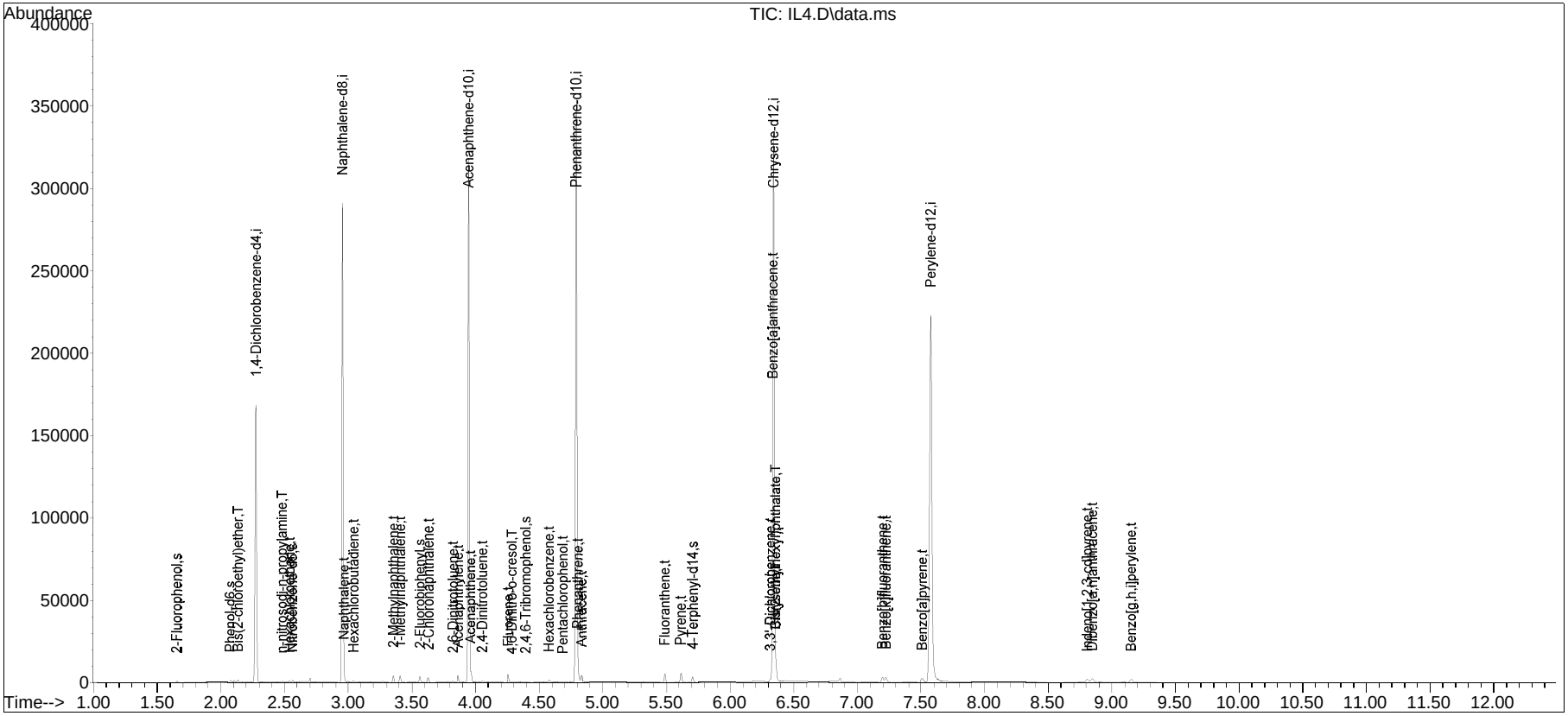
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL4.D
Acq On : 26 Oct 2023 02:59 pm
Operator : SV125:ah
Sample : IL4,32,,0.05 Lot#10232
Misc : WG1845005,,ical
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 10:34:55 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:34:54 2023
Response via : Initial Calibration

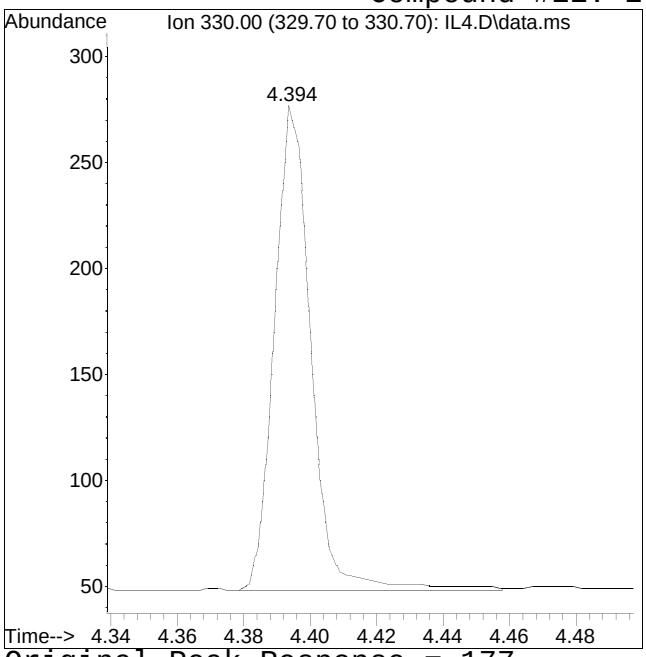
Sub List : Default - All compounds listedIical\IL7.D•



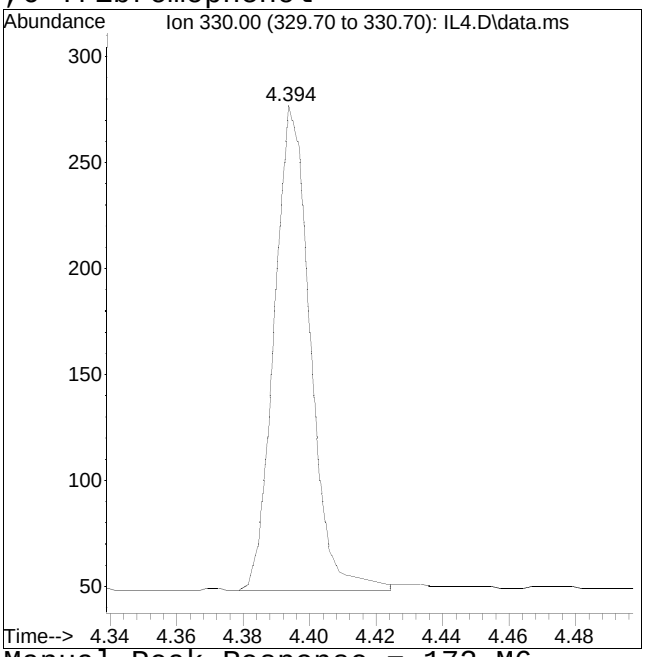
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL4.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:59 pm Instrument : SV125
Sample : IL4,32,,0.05 Lot#10232 Quant Date : 10/27/2023 10:34 am

Compound #22: 2,4,6-Tribromophenol



Original Peak Response = 177



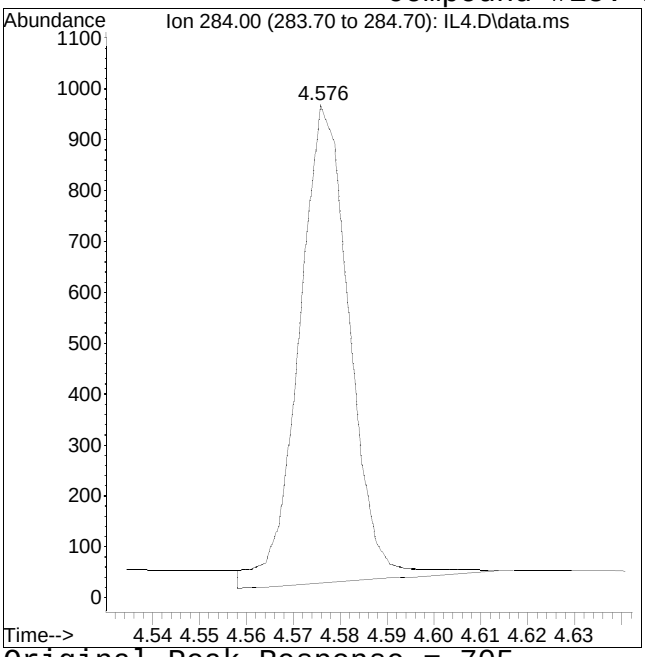
Manual Peak Response = 172 M6

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

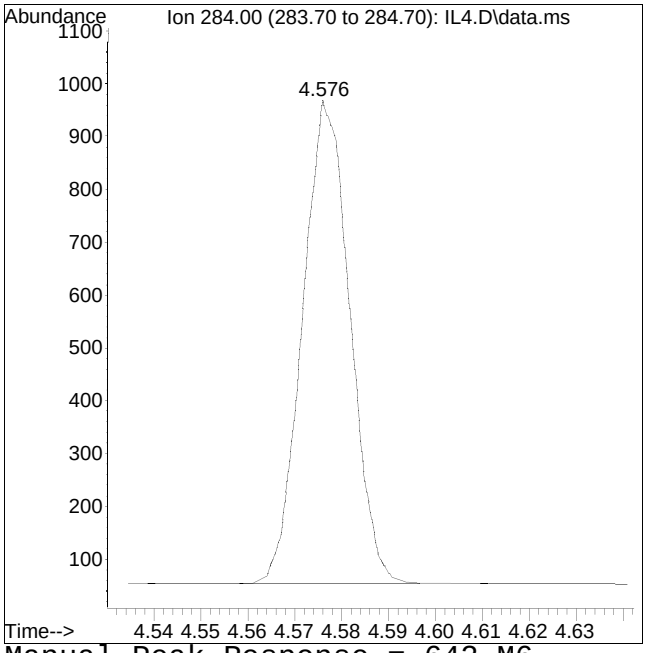
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL4.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:59 pm Instrument : SV125
Sample : IL4,32,,0.05 Lot#10232 Quant Date : 10/27/2023 10:34 am

Compound #25: Hexachlorobenzene



Original Peak Response = 705



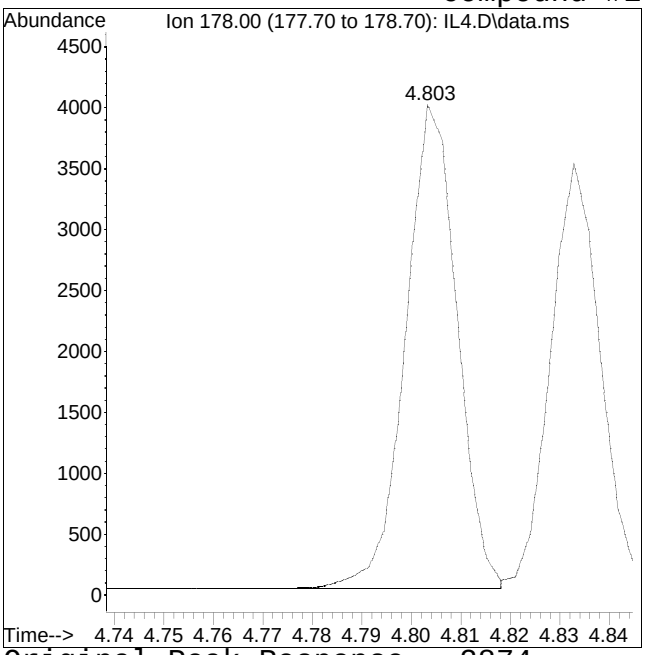
Manual Peak Response = 642 M6

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

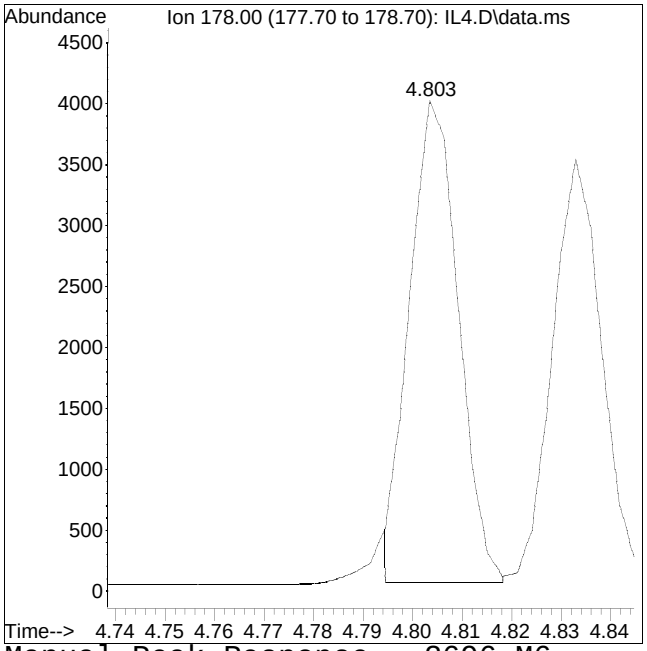
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL4.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:59 pm Instrument : SV125
Sample : IL4,32,,0.05 Lot#10232 Quant Date : 10/27/2023 10:34 am

Compound #27: Phenanthrene



Original Peak Response = 2874



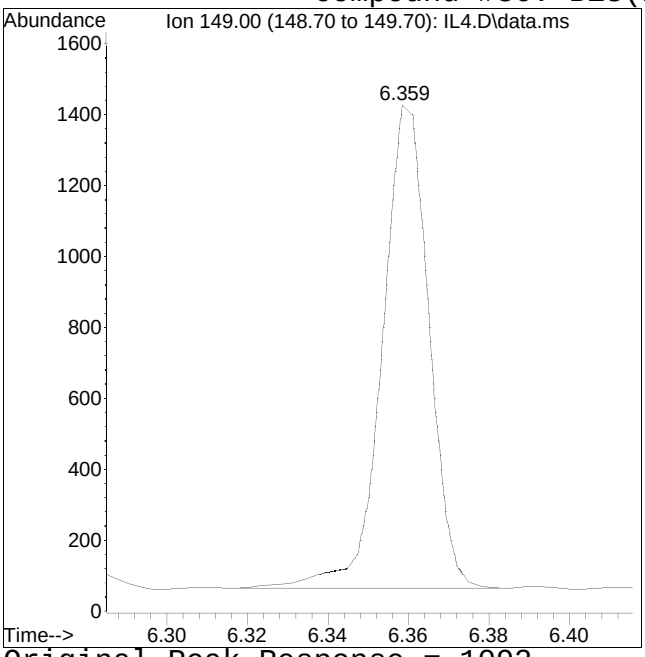
Manual Peak Response = 2696 M6

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

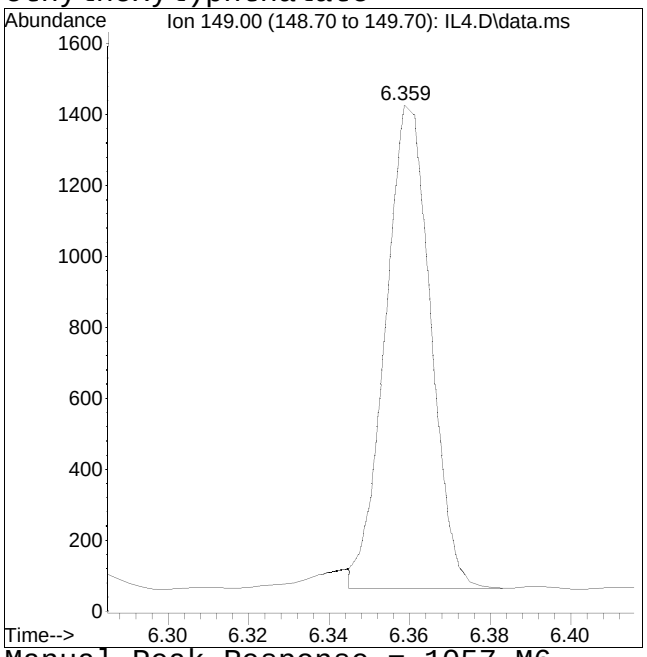
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL4.D Operator : SV125:ah
Date Inj'd : 10/26/2023 2:59 pm Instrument : SV125
Sample : IL4,32,,0.05 Lot#10232 Quant Date : 10/27/2023 10:34 am

Compound #36: Bis(2-ethylhexyl)phthalate



Original Peak Response = 1092



Manual Peak Response = 1057 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL3.D
Acq On : 26 Oct 2023 03:15 pm
Operator : SV125:ah
Sample : IL3,32,,0.025 Lot#10233
Misc : WG1845005,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 10:55:39 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:34:44 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.275	152	50712	4000.000	ng/ml	0.00
Standard Area 1 = 51814			Recovery = 97.87%			
9) Naphthalene-d8	2.955	136	181440	4000.000	ng/ml	0.00
Standard Area 1 = 191147			Recovery = 94.92%			
18) Acenaphthene-d10	3.945	164	95584	4000.000	ng/ml	0.00
Standard Area 1 = 104051			Recovery = 91.86%			
23) Phenanthrene-d10	4.792	188	216691	4000.000	ng/ml	0.00
Standard Area 1 = 234696			Recovery = 92.33%			
32) Chrysene-d12	6.342	240	193525	4000.000	ng/ml	0.00
Standard Area 1 = 218576			Recovery = 88.54%			
37) Perylene-d12	7.575	264	208050	4000.000	ng/ml	0.00
Standard Area 1 = 240994			Recovery = 86.33%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.656	112	308M6	23.945	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.48%#			
4) Phenol-d6	2.074	99	356	23.924	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.48%#			
8) Nitrobenzene-d5	2.561	82	259	22.395	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.90%#			
14) 2-Fluorobiphenyl	3.563	172	913	26.276	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 1.05%#			
22) 2,4,6-Tribromophenol	4.394	330	84M6	32.348	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.65%#			
31) 4-Terphenyl-d14	5.707	244	1020	24.620	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.98%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.134	93	343	25.564	ng/ml	94
6) n-nitrosodi-n-propylamine	2.481	70	186M6	22.932	ng/ml	
7) Hexachloroethane	2.541	117	157	25.803	ng/ml	95
10) Naphthalene	2.964	128	1195	26.238	ng/ml#	97
11) Hexachlorobutadiene	3.041	225	220	26.793	ng/ml	99
12) 2-Methylnaphthalene	3.352	142	737	25.208	ng/ml	99
13) 1-Methylnaphthalene	3.410	142	702	25.769	ng/ml	99
15) 2-Chloronaphthalene	3.627	162	769	25.694	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL3.D
Acq On : 26 Oct 2023 03:15 pm
Operator : SV125:ah
Sample : IL3,32,,0.025 Lot#10233
Misc : WG1845005,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 10:55:39 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:34:44 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
16) 2,6-Dinitrotoluene	3.823	165	98	72.859	ng/ml	95
17) Acenaphthylene	3.862	152	1048	23.789	ng/ml	98
19) Acenaphthene	3.963	153	795M6	25.631	ng/ml	
20) 2,4-Dinitrotoluene	4.051	165	121	44.557	ng/ml#	83
21) Fluorene	4.256	166	814	24.883	ng/ml	98
24) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
25) Hexachlorobenzene	4.576	284	330M6	26.399	ng/ml	
26) Pentachlorophenol	4.688	266	62M6	30.499	ng/ml	
27) Phenanthrene	4.803	178	1403M6	25.951	ng/ml	
28) Anthracene	4.833	178	1223	24.168	ng/ml	99
29) Fluoranthene	5.486	202	1442	24.256	ng/ml	100
30) Pyrene	5.617	202	1512	24.276	ng/ml	99
33) Benzo[a]anthracene	6.337	228	1819	24.872	ng/ml#	88
34) 3,3'-Dichlorobenzene	6.321	252	396	19.444	ng/ml	97
35) Chrysene	6.359	228	1708	27.444	ng/ml	99
36) Bis(2-ethylhexyl)phtha...	6.362	149	506M6	42.298	ng/ml	
38) Benzo[b]fluoranthene	7.195	252	1354	24.150	ng/ml	96
39) Benzo[k]fluoranthene	7.220	252	1314	23.623	ng/ml	95
40) Benzo[a]pyrene	7.512	252	1099	22.361	ng/ml	98
41) Indeno[1,2,3-cd]pyrene	8.812	276	1144M4	22.363	ng/ml	
42) Dibenzo[a,h]anthracene	8.847	278	1113	22.491	ng/ml	97
43) Benzo[g,h,i]perylene	9.155	276	1301	23.513	ng/ml	97

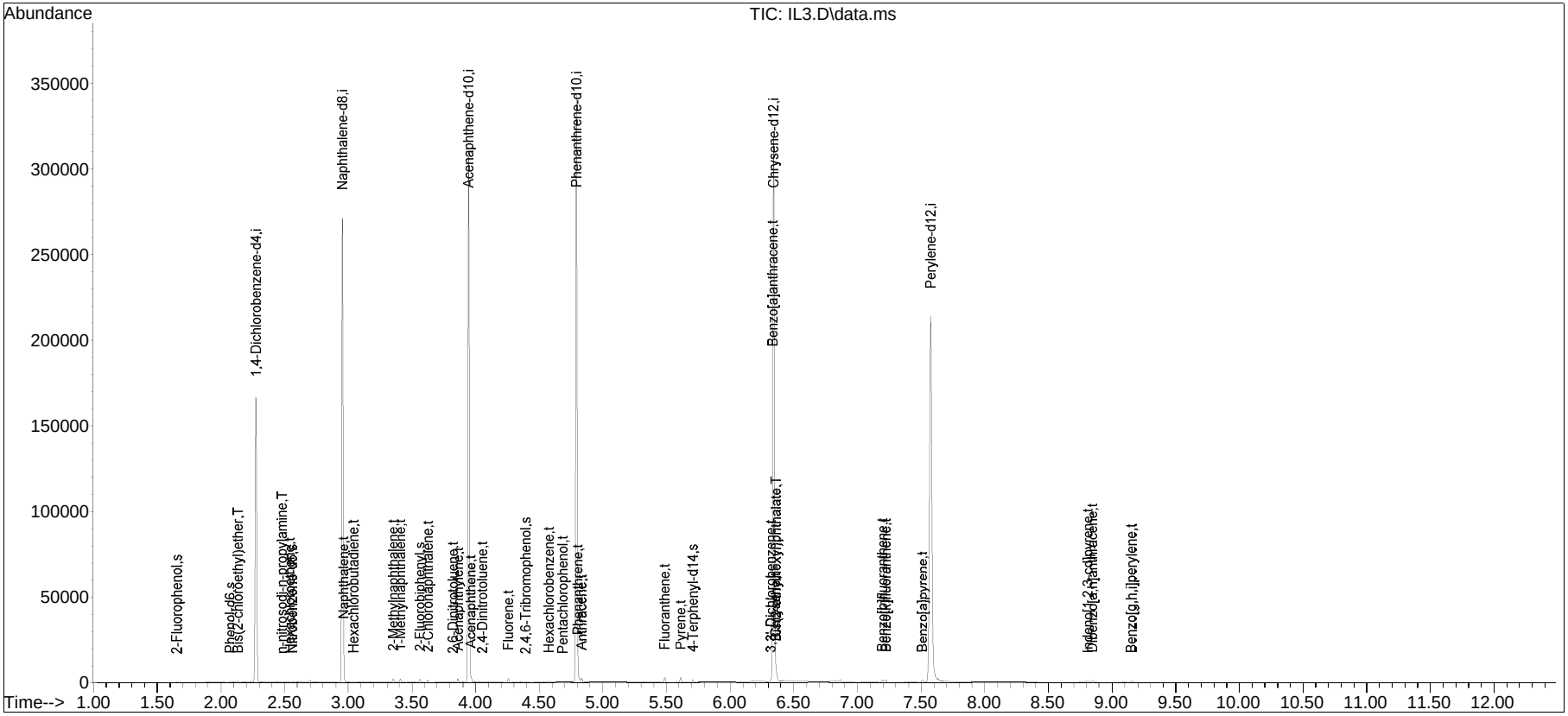
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL3.D
Acq On : 26 Oct 2023 03:15 pm
Operator : SV125:ah
Sample : IL3,32,,0.025 Lot#10233
Misc : WG1845005,,ical
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 10:55:39 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:34:44 2023
Response via : Initial Calibration

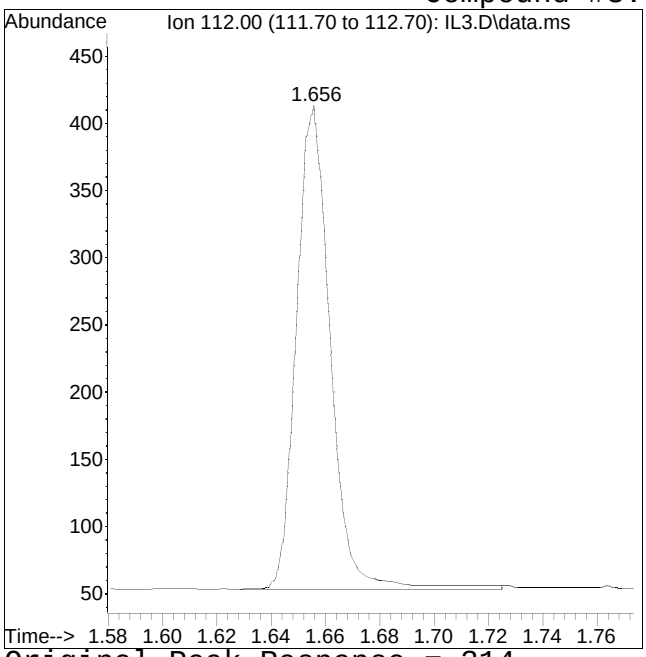
Sub List : Default - All compounds listedIical\IL7.D•



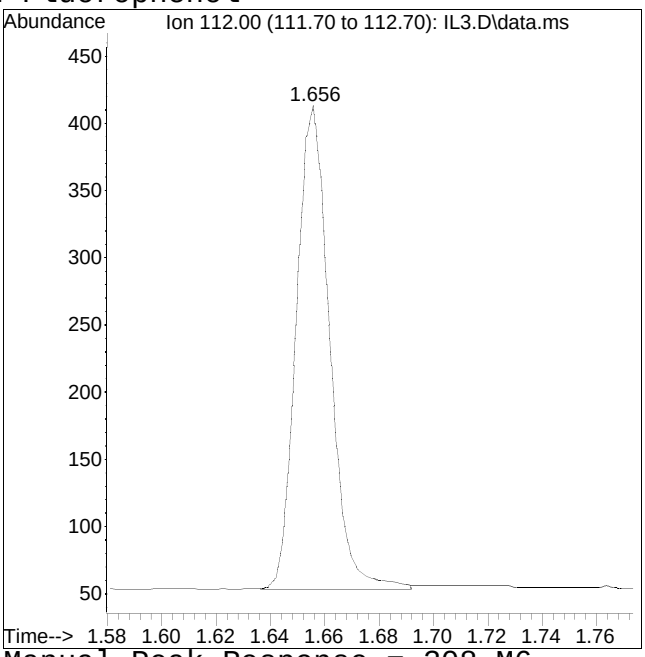
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL3.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:15 pm Instrument : SV125
Sample : IL3,32,,0.025 Lot#10233 Quant Date : 10/27/2023 10:34 am

Compound #3: 2-Fluorophenol



Original Peak Response = 314



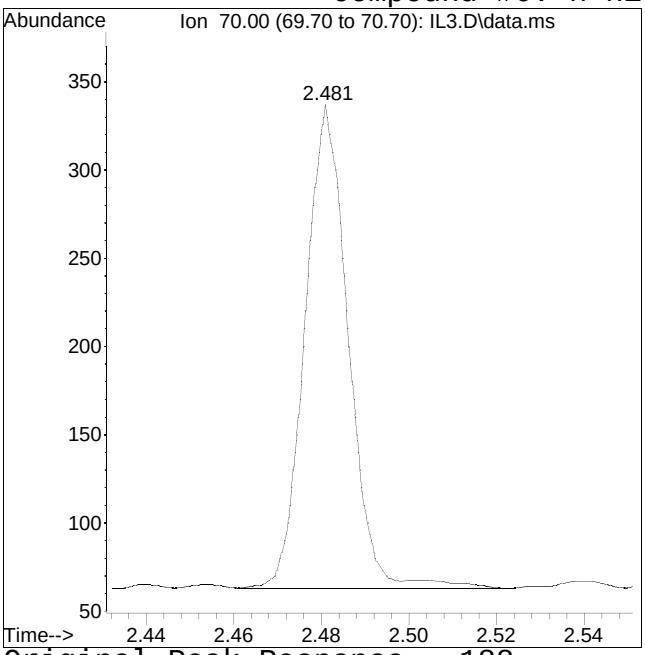
Manual Peak Response = 308 M6

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

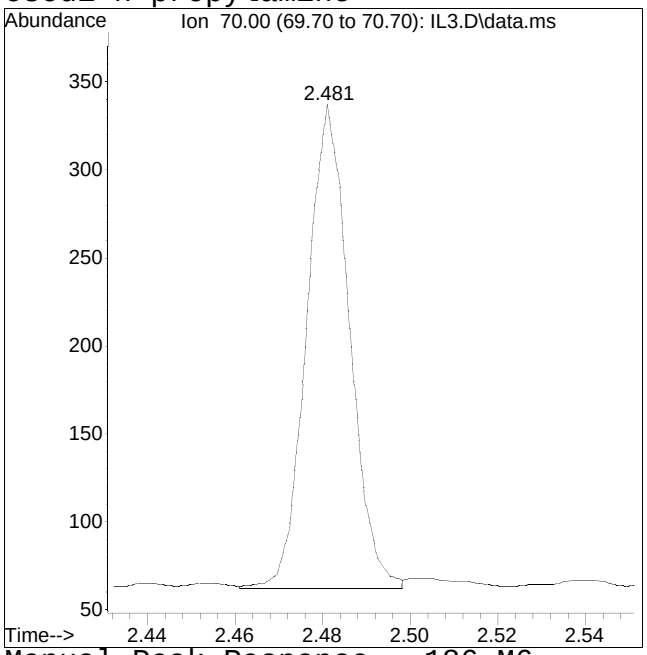
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL3.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:15 pm Instrument : SV125
Sample : IL3,32,,0.025 Lot#10233 Quant Date : 10/27/2023 10:34 am

Compound #6: n-nitrosodi-n-propylamine



Original Peak Response = 188



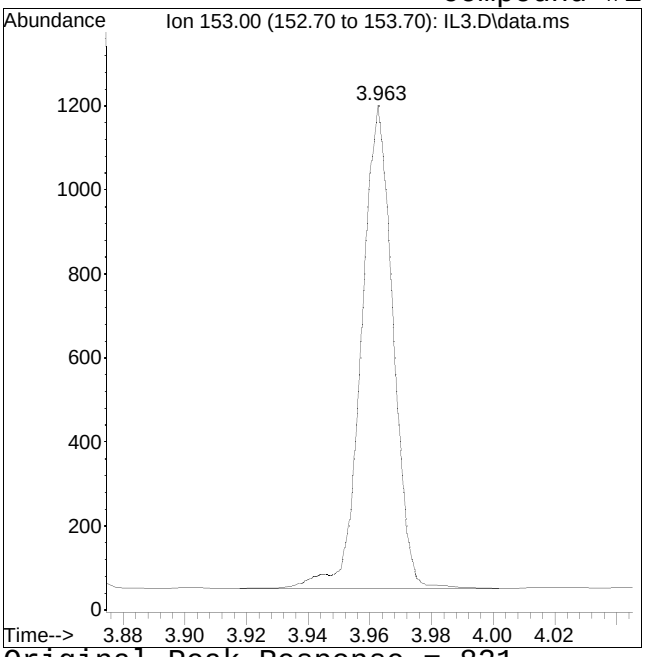
Manual Peak Response = 186 M6

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

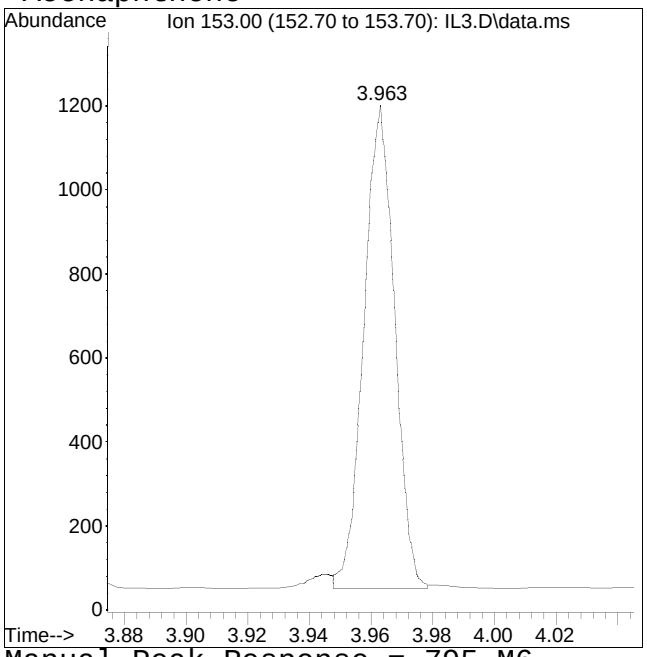
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL3.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:15 pm Instrument : SV125
Sample : IL3,32,,0.025 Lot#10233 Quant Date : 10/27/2023 10:34 am

Compound #19: Acenaphthene



Original Peak Response = 821



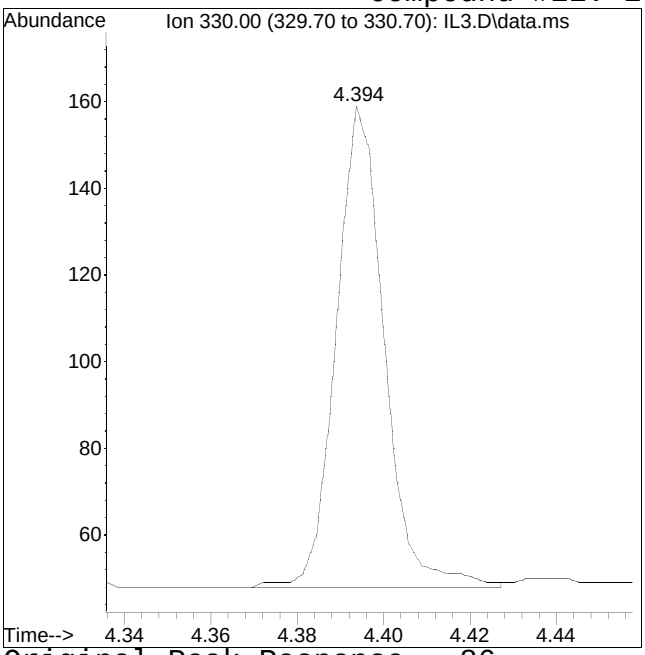
Manual Peak Response = 795 M6

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

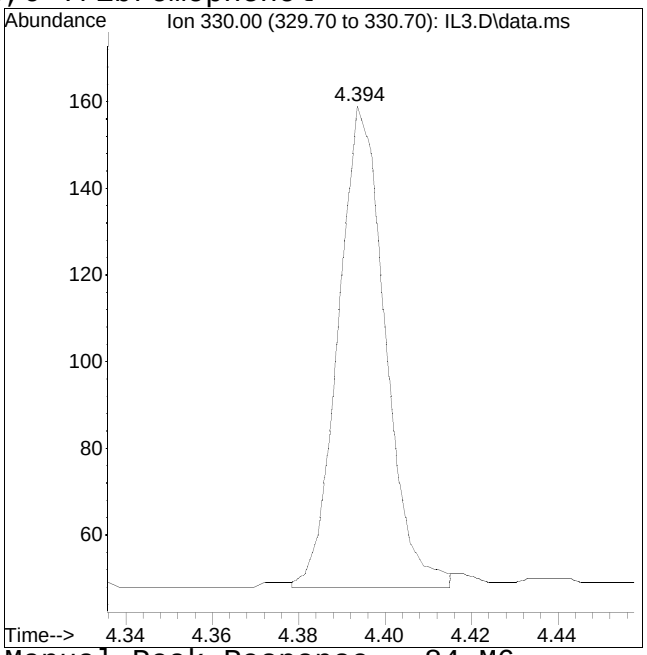
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL3.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:15 pm Instrument : SV125
Sample : IL3,32,,0.025 Lot#10233 Quant Date : 10/27/2023 10:34 am

Compound #22: 2,4,6-Tribromophenol



Original Peak Response = 86



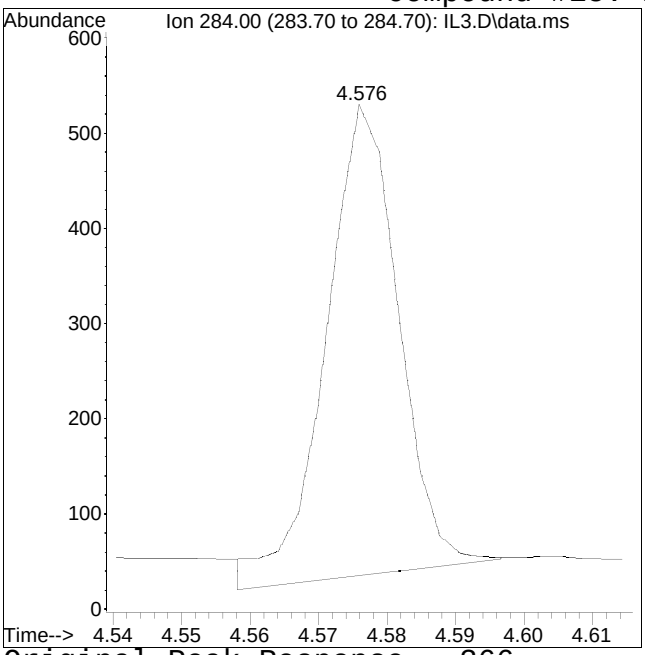
Manual Peak Response = 84 M6

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

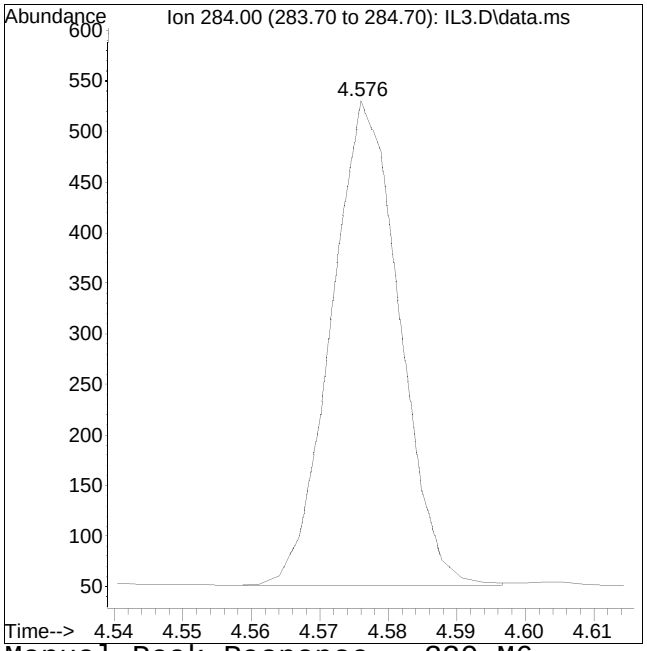
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL3.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:15 pm Instrument : SV125
Sample : IL3,32,,0.025 Lot#10233 Quant Date : 10/27/2023 10:34 am

Compound #25: Hexachlorobenzene



Original Peak Response = 366



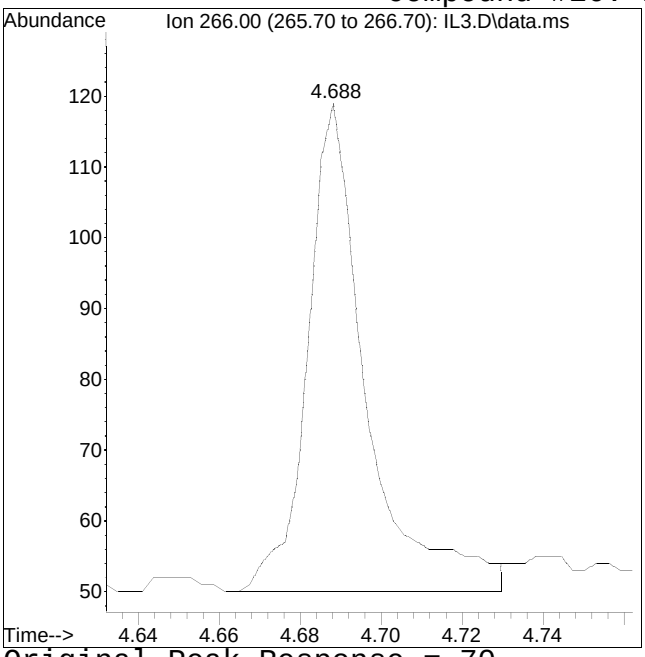
Manual Peak Response = 330 M6

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

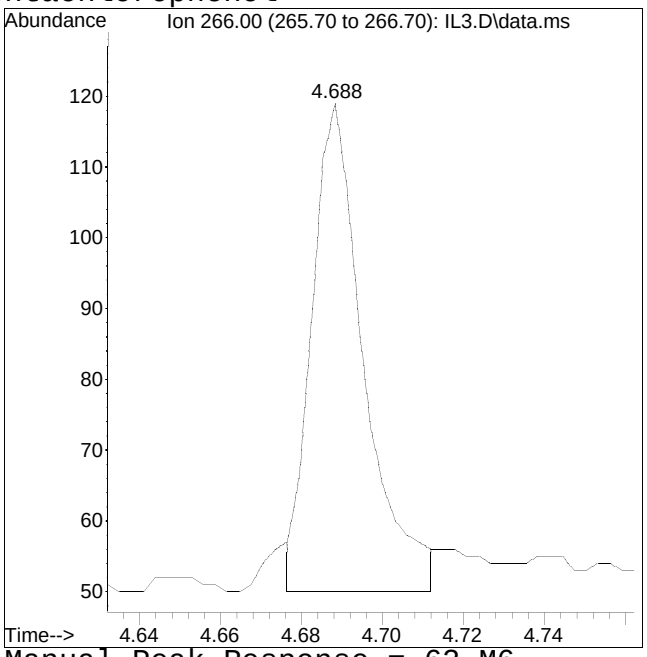
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL3.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:15 pm Instrument : SV125
Sample : IL3,32,,0.025 Lot#10233 Quant Date : 10/27/2023 10:34 am

Compound #26: Pentachlorophenol



Original Peak Response = 70



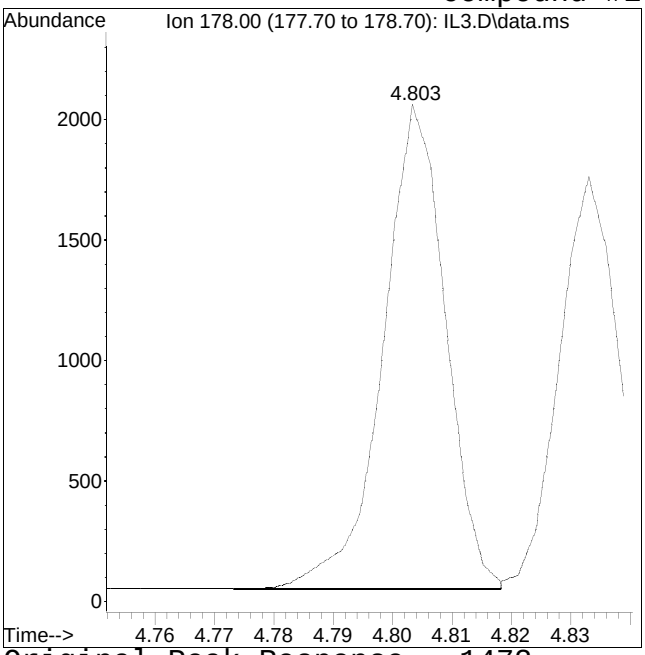
Manual Peak Response = 62 M6

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

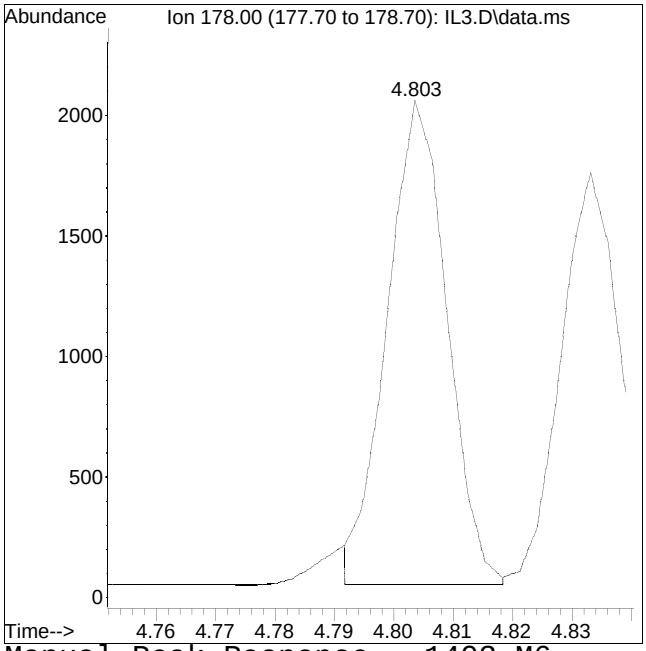
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL3.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:15 pm Instrument : SV125
Sample : IL3,32,,0.025 Lot#10233 Quant Date : 10/27/2023 10:34 am

Compound #27: Phenanthrene



Original Peak Response = 1472



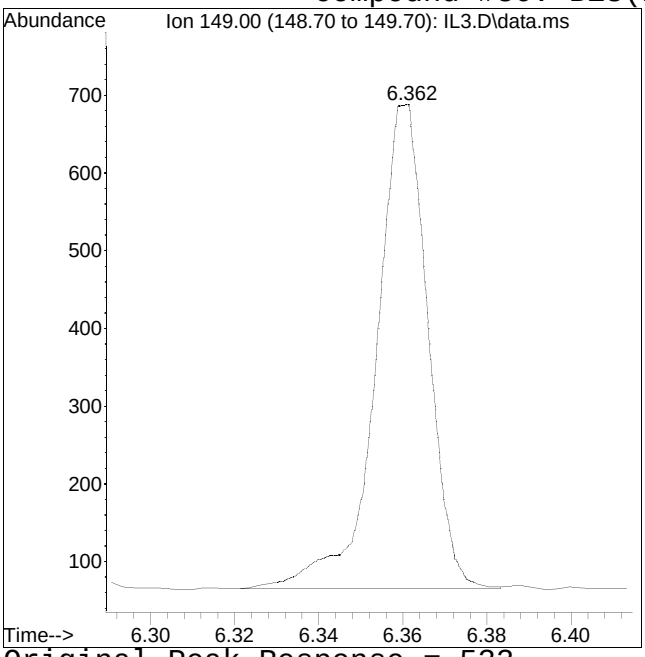
Manual Peak Response = 1403 M6

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

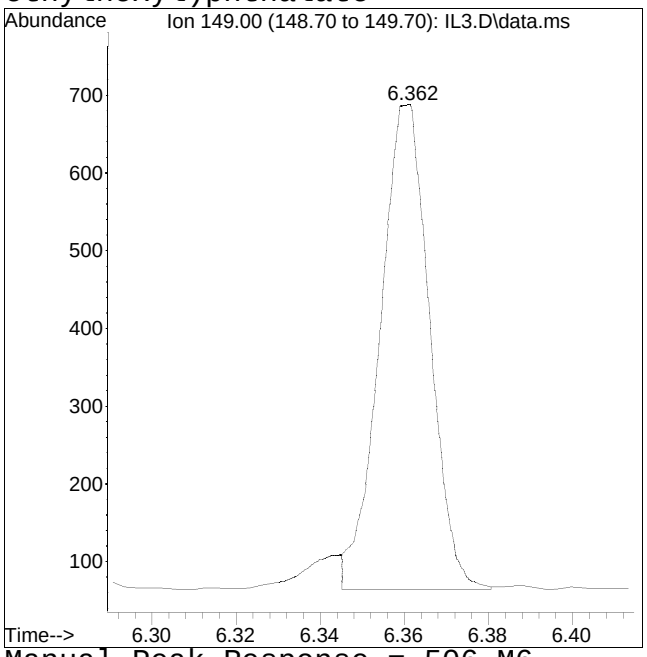
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL3.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:15 pm Instrument : SV125
Sample : IL3,32,,0.025 Lot#10233 Quant Date : 10/27/2023 10:34 am

Compound #36: Bis(2-ethylhexyl)phthalate



Original Peak Response = 533



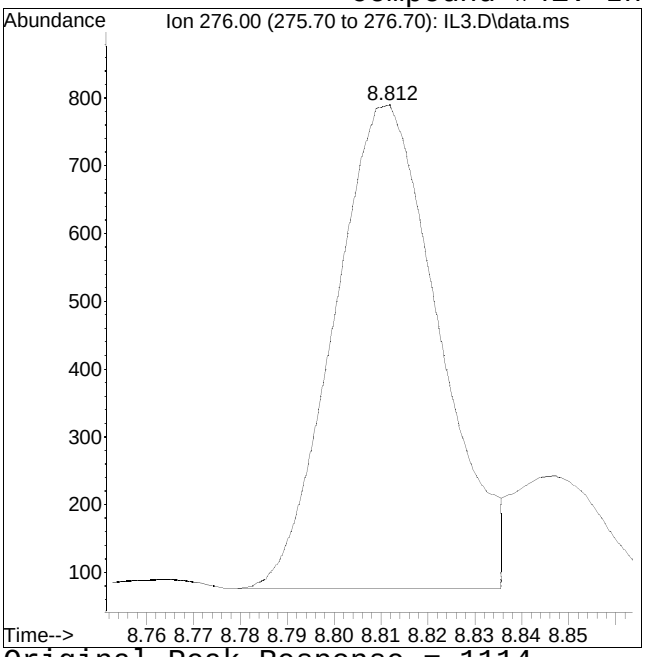
Manual Peak Response = 506 M6

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

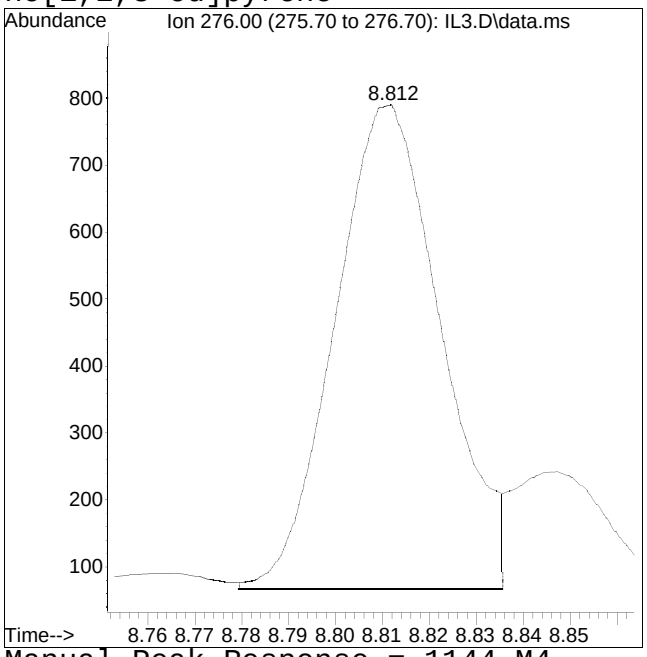
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL3.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:15 pm Instrument : SV125
Sample : IL3,32,,0.025 Lot#10233 Quant Date : 10/27/2023 10:34 am

Compound #41: Indeno[1,2,3-cd]pyrene



Original Peak Response = 1114



Manual Peak Response = 1144 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL2.D
Acq On : 26 Oct 2023 03:31 pm
Operator : SV125:ah
Sample : IL2,32,,0.01 Lot#10234
Misc : WG1845005,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 10:55:01 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:42:15 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.274	152	51403	4000.000	ng/ml	0.00
Standard Area 1 = 51814			Recovery = 99.21%			
9) Naphthalene-d8	2.954	136	183988	4000.000	ng/ml	0.00
Standard Area 1 = 191147			Recovery = 96.25%			
18) Acenaphthene-d10	3.944	164	96336	4000.000	ng/ml	0.00
Standard Area 1 = 104051			Recovery = 92.59%			
23) Phenanthrene-d10	4.791	188	216849	4000.000	ng/ml	0.00
Standard Area 1 = 234696			Recovery = 92.40%			
32) Chrysene-d12	6.339	240	192259	4000.000	ng/ml	0.00
Standard Area 1 = 218576			Recovery = 87.96%			
37) Perylene-d12	7.572	264	206390	4000.000	ng/ml	0.00
Standard Area 1 = 240994			Recovery = 85.64%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.656	112	125	9.587	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.19%#			
4) Phenol-d6	2.077	99	146M6	9.680	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.19%#			
8) Nitrobenzene-d5	2.563	82	100	8.530	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.34%#			
14) 2-Fluorobiphenyl	3.562	172	353	10.018	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.40%#			
22) 2,4,6-Tribromophenol	4.393	330	32M2	21.396	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.43%#			
31) 4-Terphenyl-d14	5.703	244	395M6	9.527	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.38%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.133	93	136M1	10.000	ng/ml	
6) n-nitrosodi-n-propylamine	2.483	70	71M4	8.636	ng/ml	
7) Hexachloroethane	2.543	117	65M6	10.539	ng/ml	
10) Naphthalene	2.966	128	475	10.285	ng/ml#	91
11) Hexachlorobutadiene	3.043	225	88	10.569	ng/ml	94
12) 2-Methylnaphthalene	3.354	142	292M6	9.849	ng/ml	
13) 1-Methylnaphthalene	3.409	142	274M4	9.919	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL2.D
Acq On : 26 Oct 2023 03:31 pm
Operator : SV125:ah
Sample : IL2,32,,0.01 Lot#10234
Misc : WG1845005,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 10:55:01 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:42:15 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Chloronaphthalene	3.629	162	307	10.116	ng/ml	98
16) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
17) Acenaphthylene	3.861	152	417	9.334	ng/ml	96
19) Acenaphthene	3.962	153	326M6	10.428	ng/ml	
20) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
21) Fluorene	4.256	166	322M6	9.766	ng/ml	
24) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
25) Hexachlorobenzene	4.575	284	129M6	10.312	ng/ml	
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	4.803	178	560M6	10.351	ng/ml	
28) Anthracene	4.832	178	495	9.775	ng/ml	100
29) Fluoranthene	5.485	202	574	9.648	ng/ml	95
30) Pyrene	5.613	202	594	9.530	ng/ml	98
33) Benzo[a]anthracene	6.336	228	1096	12.934	ng/ml#	81
34) 3,3'-Dichlorobenzene	6.317	252	156M6	7.710	ng/ml	
35) Chrysene	6.358	228	600	9.704	ng/ml	97
36) Bis(2-ethylhexyl)phtha...	6.358	149	216M6	31.699	ng/ml	
38) Benzo[b]fluoranthene	7.194	252	548	9.853	ng/ml	100
39) Benzo[k]fluoranthene	7.220	252	490	8.880	ng/ml	99
40) Benzo[a]pyrene	7.509	252	427	8.758	ng/ml	99
41) Indeno[1,2,3-cd]pyrene	8.808	276	456M1	8.986	ng/ml	
42) Dibenzo[a,h]anthracene	8.844	278	431	8.779	ng/ml	96
43) Benzo[g,h,i]perylene	9.151	276	509	9.274	ng/ml	100

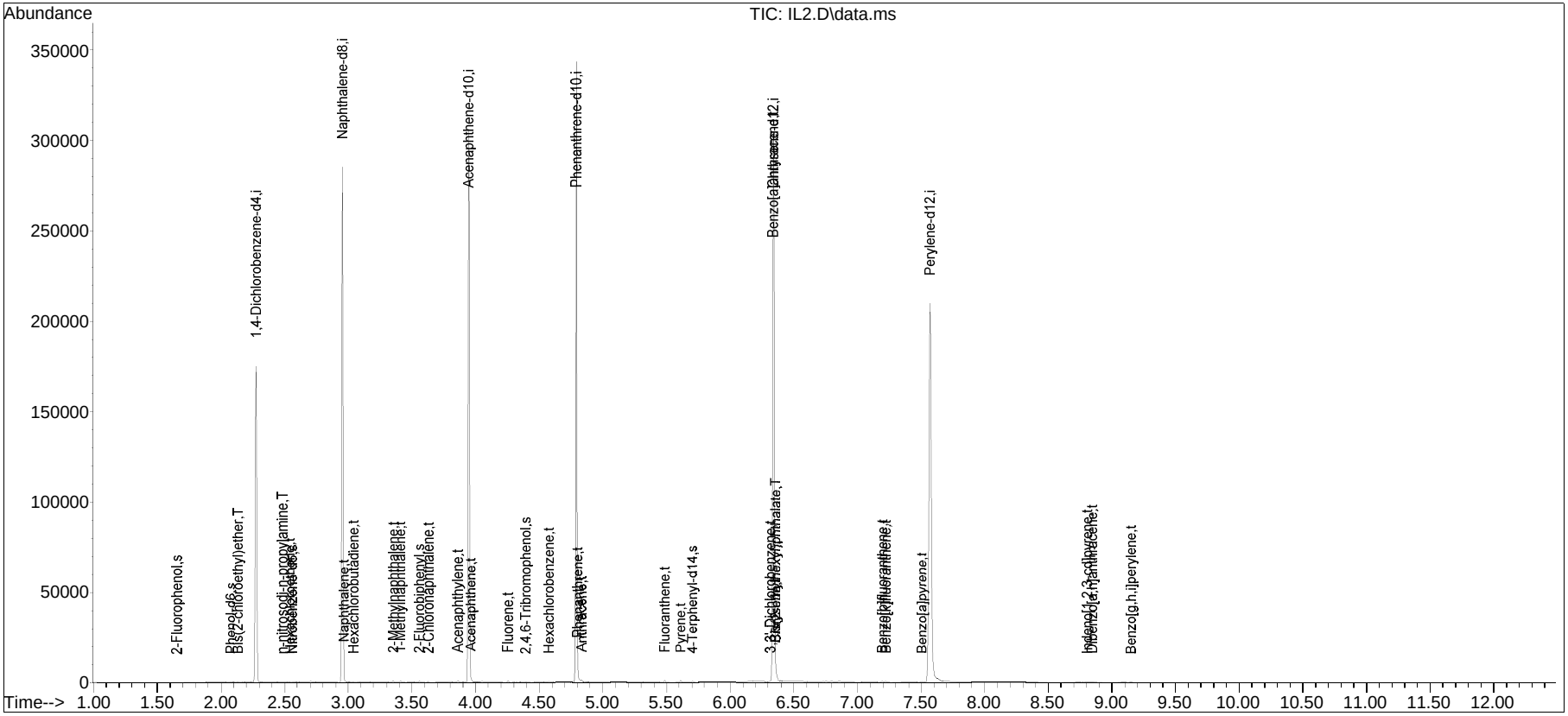
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL2.D
Acq On : 26 Oct 2023 03:31 pm
Operator : SV125:ah
Sample : IL2,32,,0.01 Lot#10234
Misc : WG1845005,,ical
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 10:55:01 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:42:15 2023
Response via : Initial Calibration

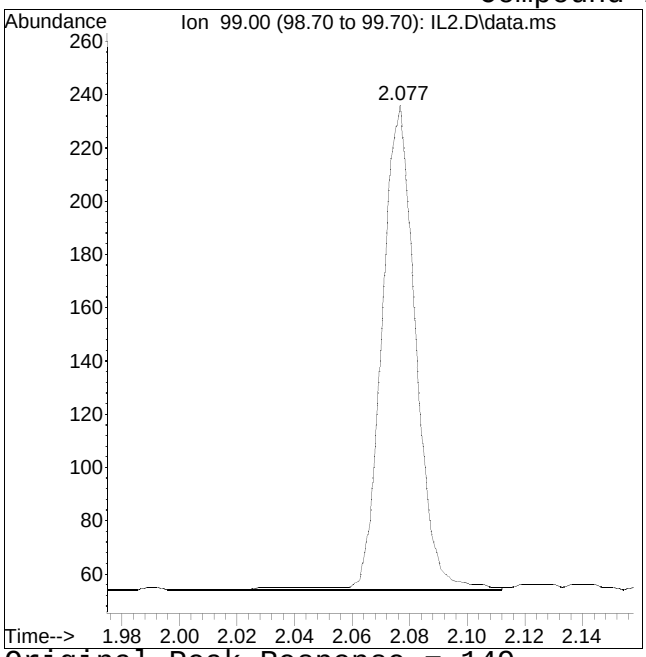
Sub List : Default - All compounds listedIical\IL7.D•



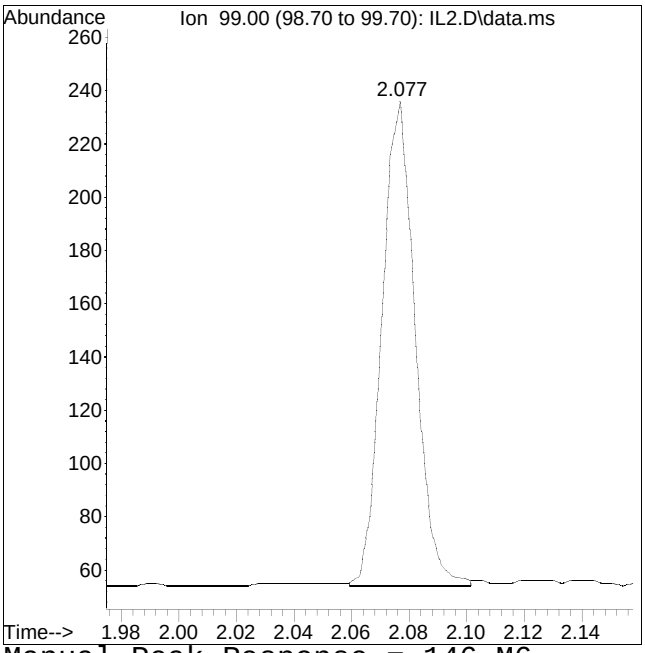
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #4: Phenol-d6



Original Peak Response = 149



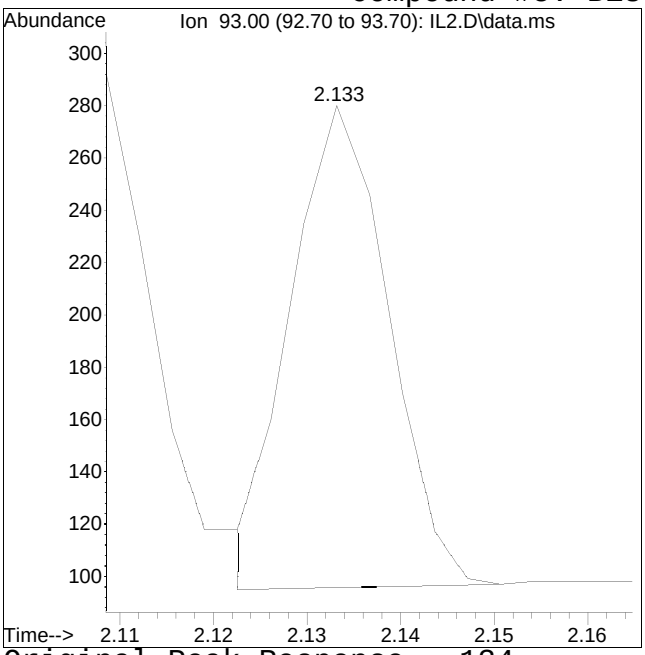
Manual Peak Response = 146 M6

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

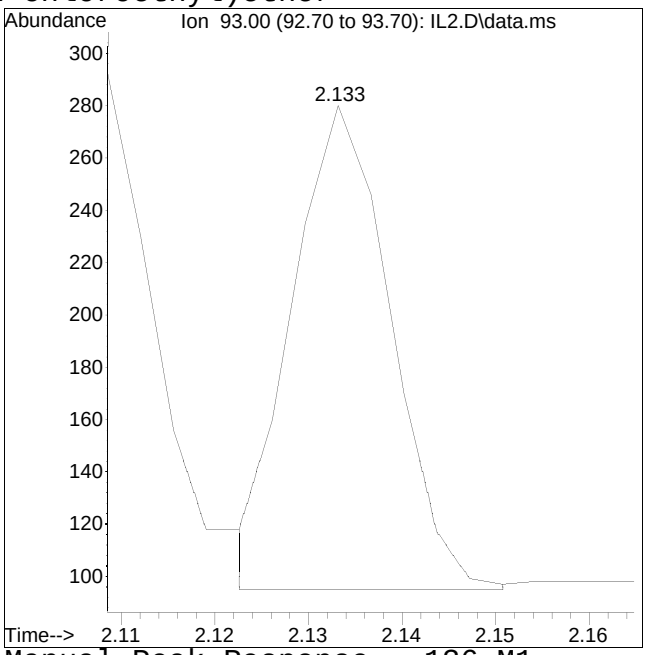
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #5: Bis(2-chloroethyl)ether



Original Peak Response = 134



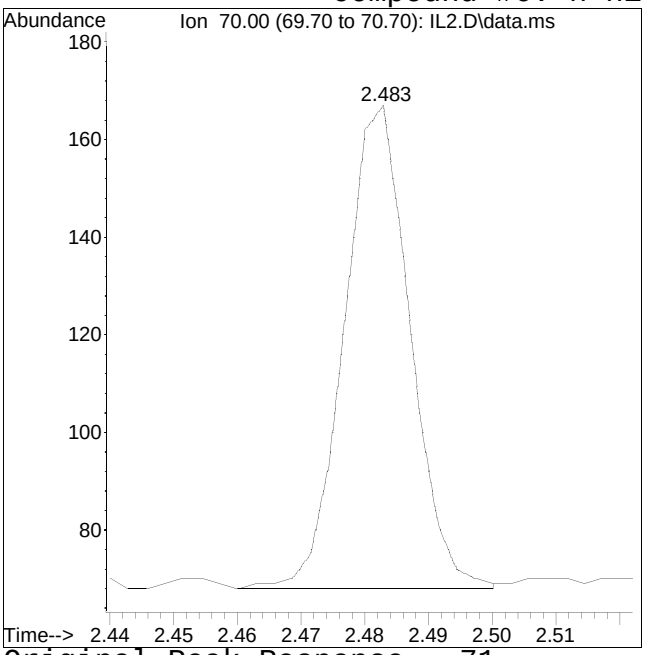
Manual Peak Response = 136 M1

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

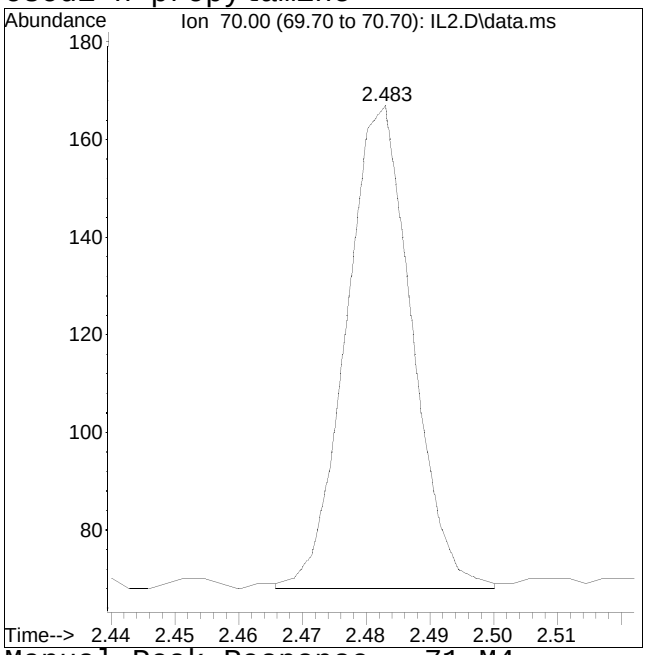
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #6: n-nitrosodi-n-propylamine



Original Peak Response = 71



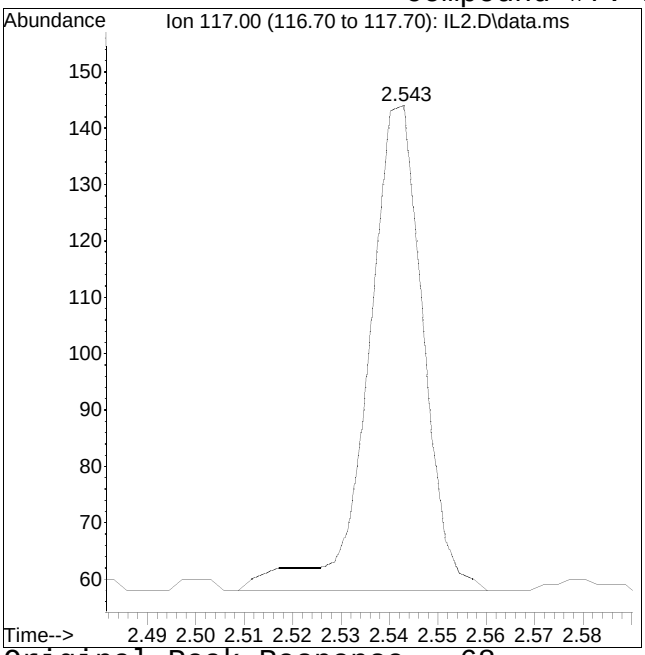
Manual Peak Response = 71 M4

M4 = Poor automated baseline construction.

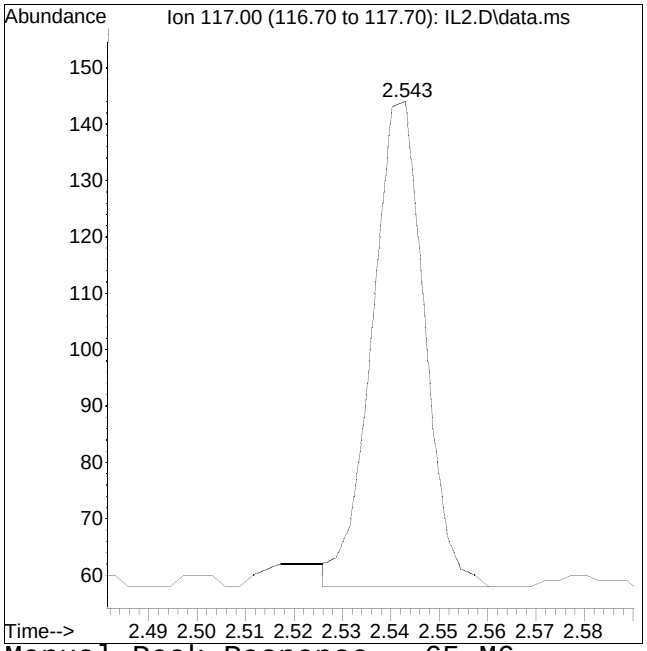
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #7: Hexachloroethane



Original Peak Response = 68



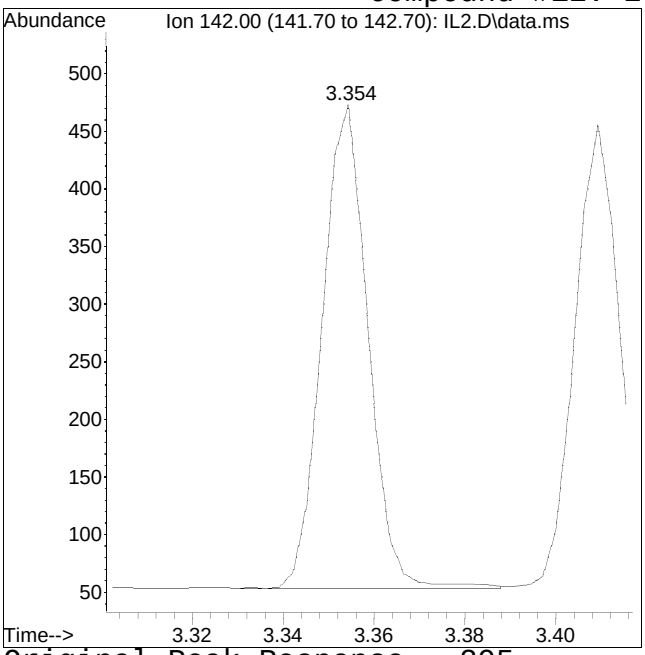
Manual Peak Response = 65 M6

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

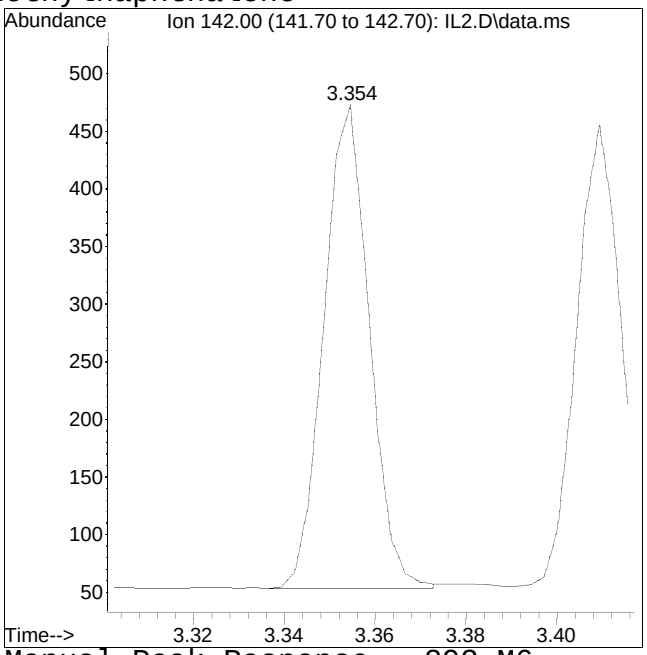
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #12: 2-Methylnaphthalene



Original Peak Response = 295



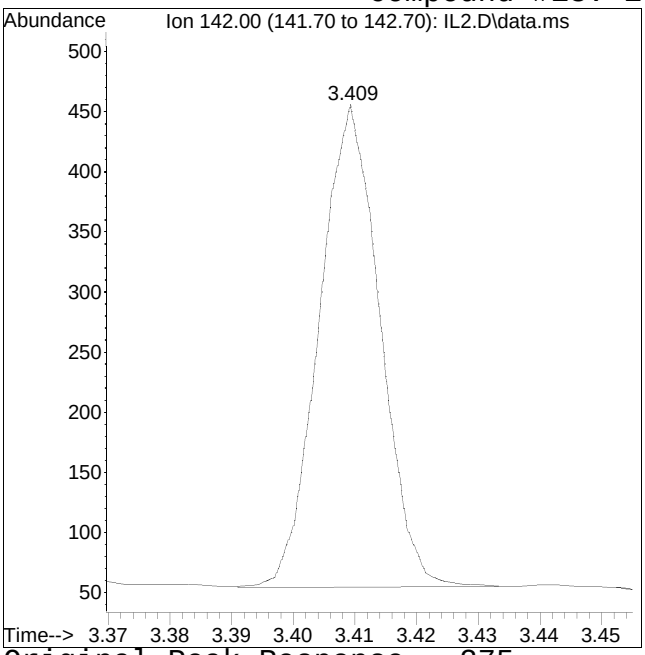
Manual Peak Response = 292 M6

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

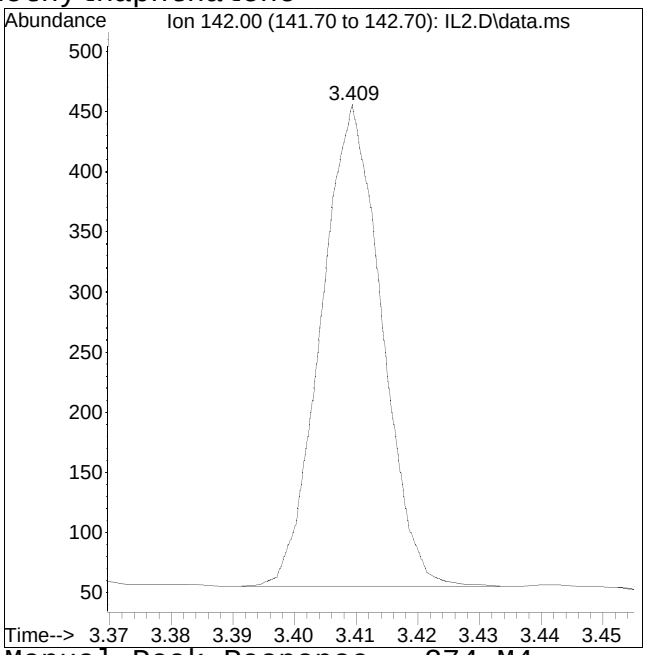
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #13: 1-Methylnaphthalene



Original Peak Response = 275



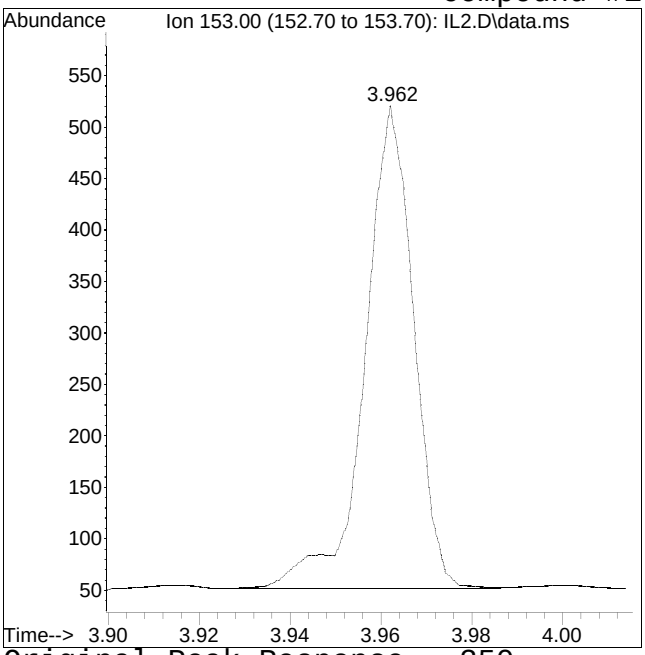
Manual Peak Response = 274 M4

M4 = Poor automated baseline construction.

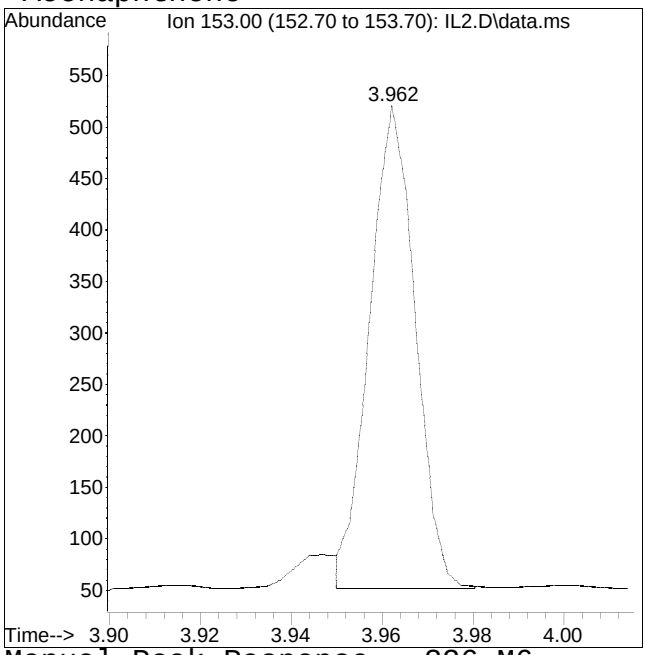
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #19: Acenaphthene



Original Peak Response = 350



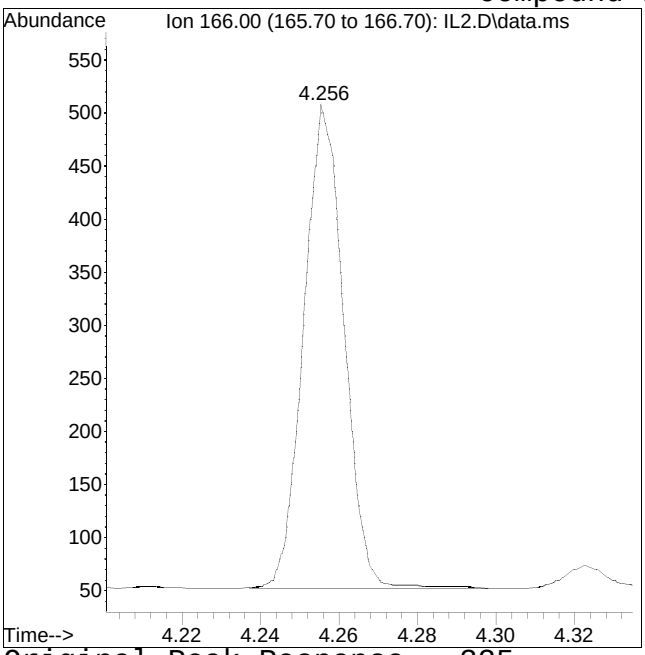
Manual Peak Response = 326 M6

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

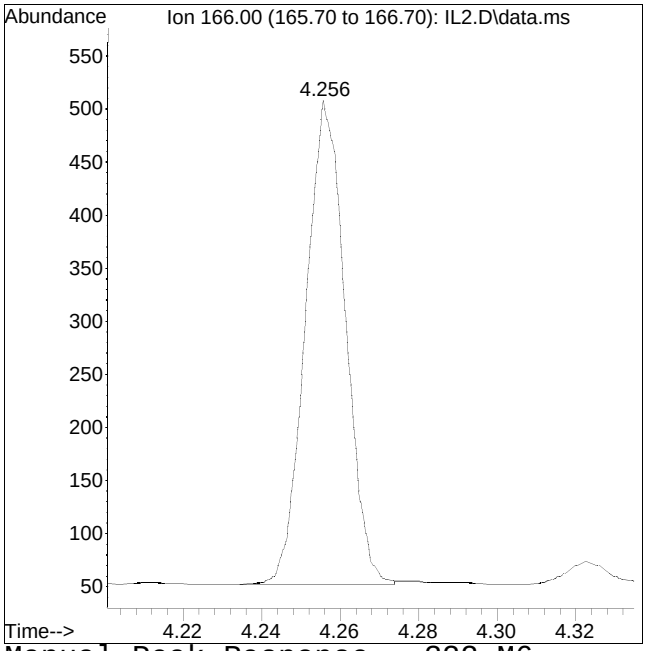
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #21: Fluorene



Original Peak Response = 325



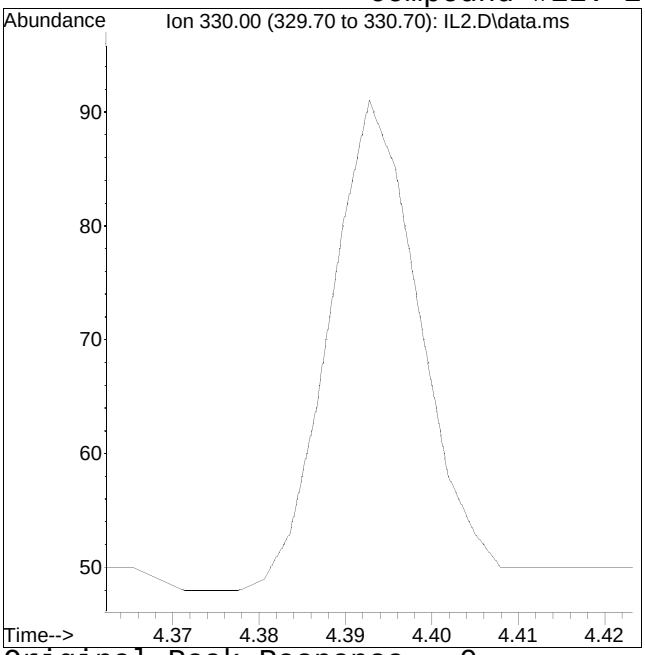
Manual Peak Response = 322 M6

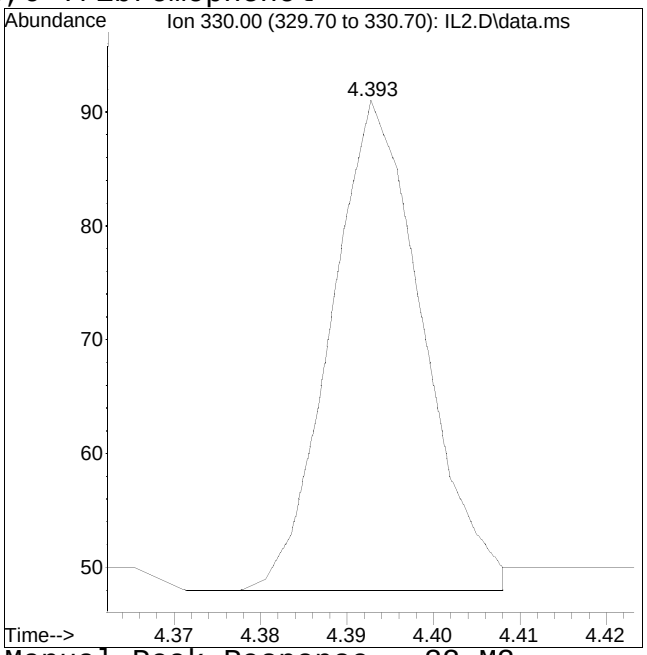
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #22: 2,4,6-Tribromophenol



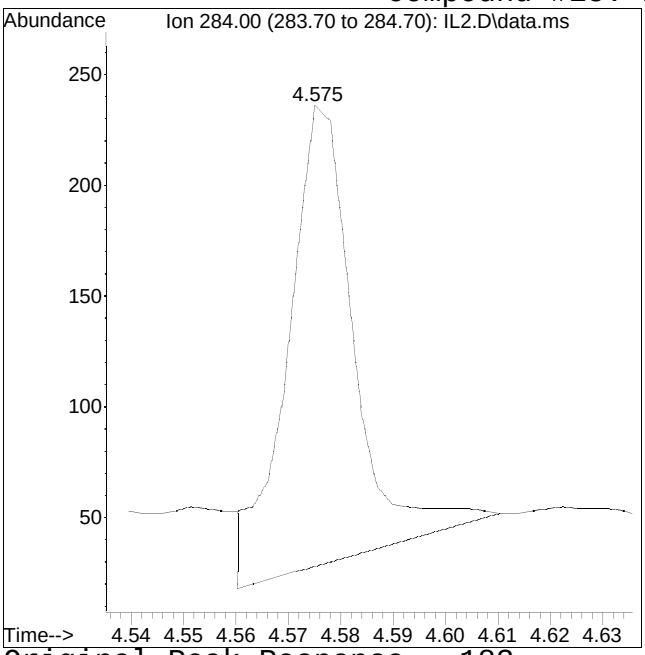


Original Peak Response = 0 Manual Peak Response = 32 M2
M2 = Peak not found by automatic integration algorithm.

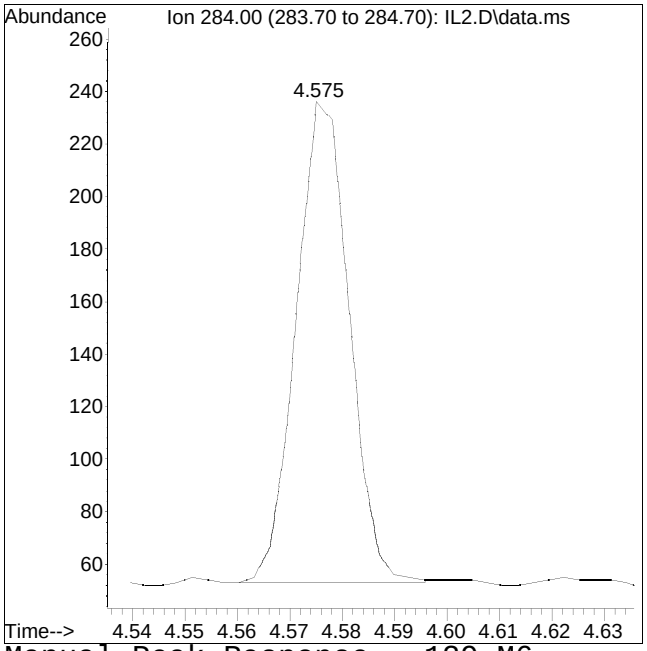
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #25: Hexachlorobenzene



Original Peak Response = 183



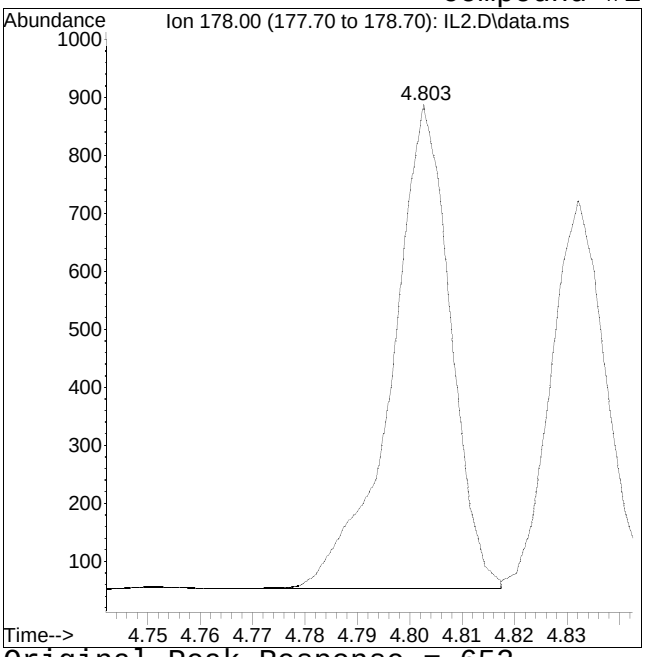
Manual Peak Response = 129 M6

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

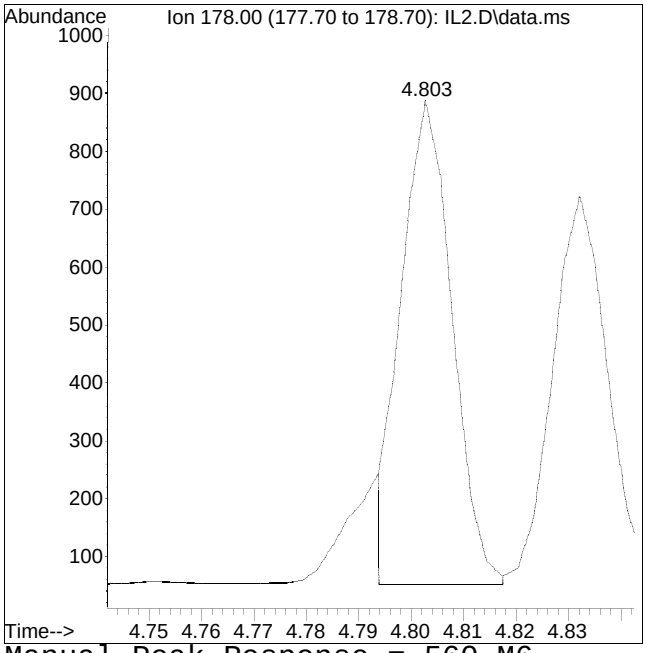
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #27: Phenanthrene



Original Peak Response = 652



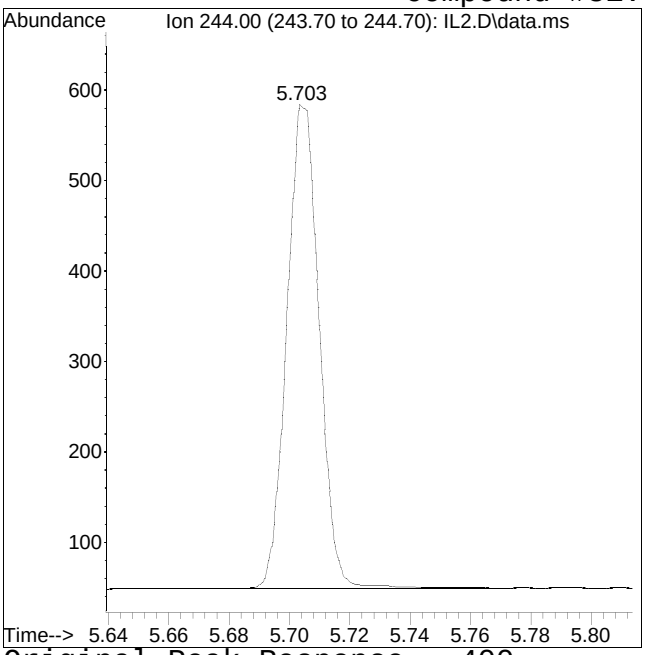
Manual Peak Response = 560 M6

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

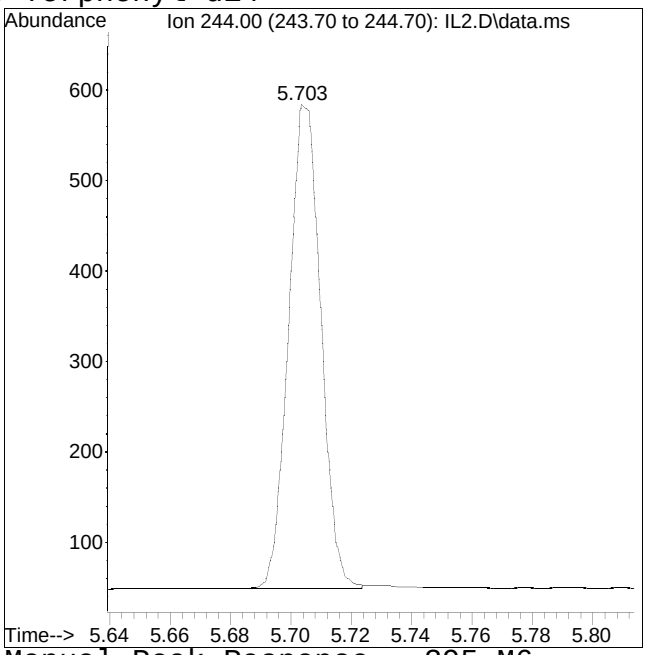
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #31: 4-Terphenyl-d14



Original Peak Response = 400



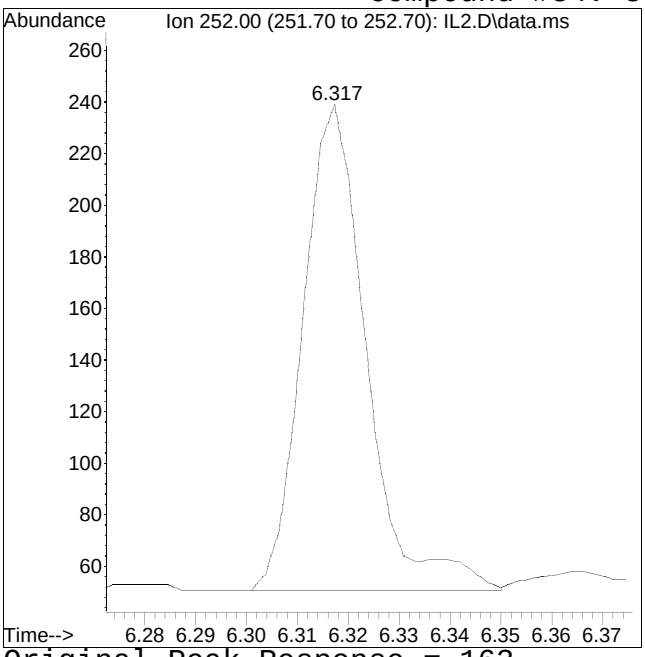
Manual Peak Response = 395 M6

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

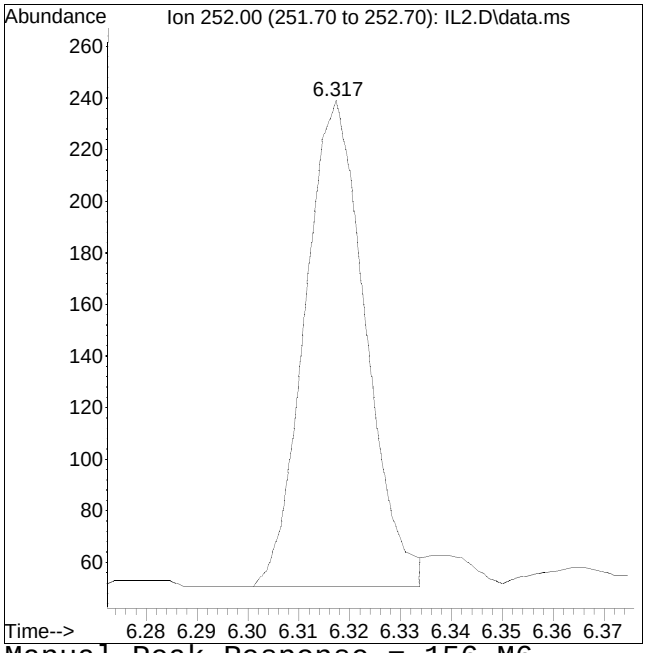
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #34: 3,3'-Dichlorobenzene



Original Peak Response = 163



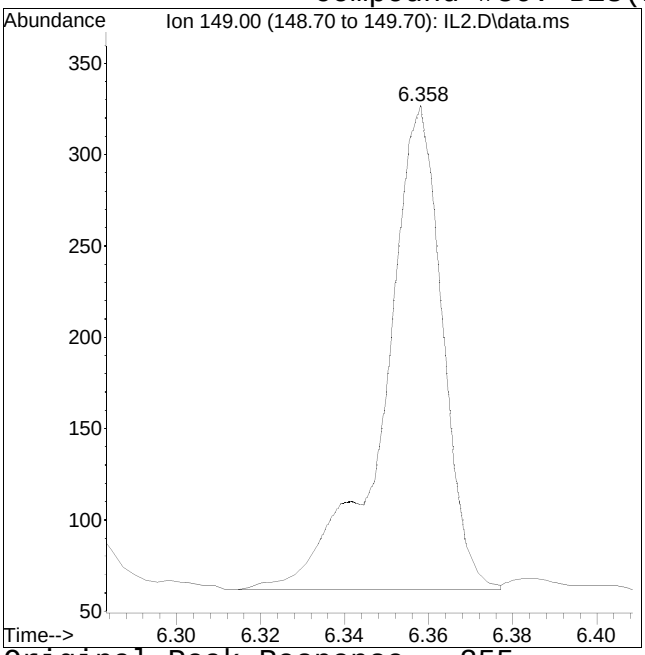
Manual Peak Response = 156 M6

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

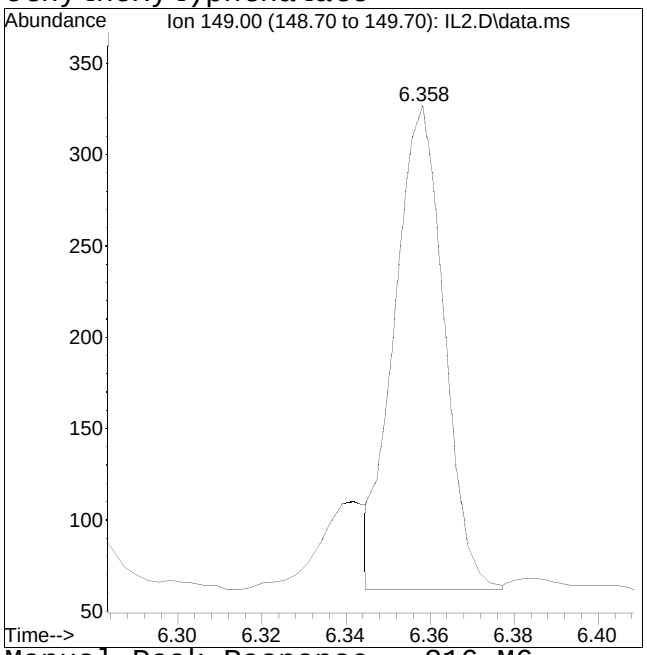
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #36: Bis(2-ethylhexyl)phthalate



Original Peak Response = 255



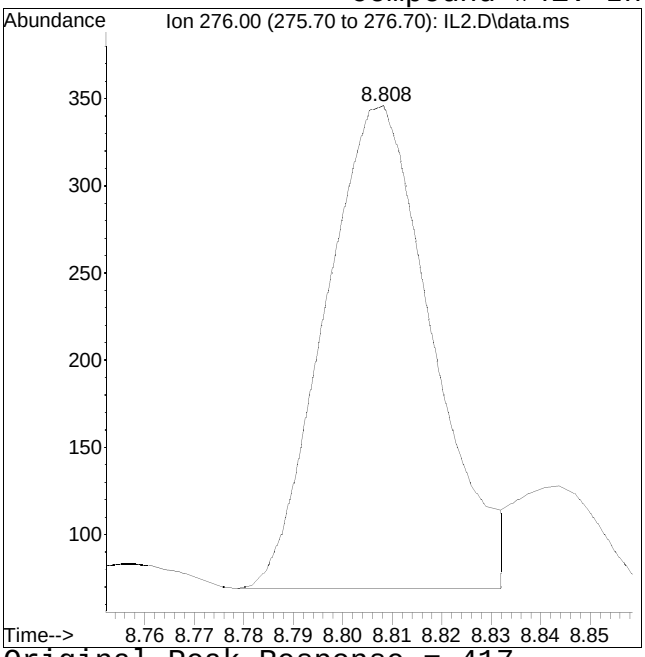
Manual Peak Response = 216 M6

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

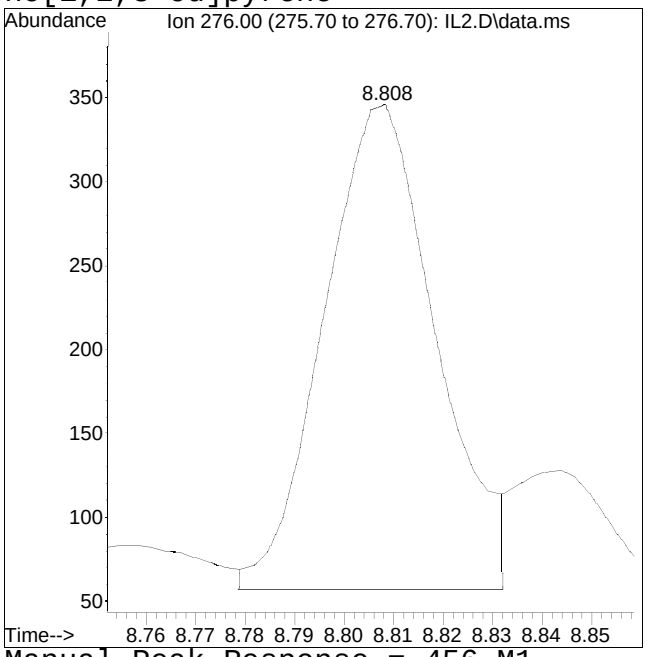
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL2.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:31 pm Instrument : SV125
Sample : IL2,32,,0.01 Lot#10234 Quant Date : 10/27/2023 10:42 am

Compound #41: Indeno[1,2,3-cd]pyrene



Original Peak Response = 417



Manual Peak Response = 456 M1

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL1.D
Acq On : 26 Oct 2023 03:47 pm
Operator : SV125:ah
Sample : IL1,32,,0.005 Lot#10235
Misc : WG1845005,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 10:53:44 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:34:13 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.273	152	49746	4000.000	ng/ml	0.00
Standard Area 1 = 51814			Recovery = 96.01%			
9) Naphthalene-d8	2.954	136	179903	4000.000	ng/ml	0.00
Standard Area 1 = 191147			Recovery = 94.12%			
18) Acenaphthene-d10	3.943	164	95638	4000.000	ng/ml	0.00
Standard Area 1 = 104051			Recovery = 91.91%			
23) Phenanthrene-d10	4.790	188	217833	4000.000	ng/ml	0.00
Standard Area 1 = 234696			Recovery = 92.81%			
32) Chrysene-d12	6.339	240	195439	4000.000	ng/ml	0.00
Standard Area 1 = 218576			Recovery = 89.41%			
37) Perylene-d12	7.568	264	210045	4000.000	ng/ml	0.00
Standard Area 1 = 240994			Recovery = 87.16%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.656	112	78M6	6.182	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.12%#			
4) Phenol-d6	2.076	99	101M6	6.919	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.14%#			
8) Nitrobenzene-d5	2.563	82	52M7	4.584	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.18%#			
14) 2-Fluorobiphenyl	3.561	172	181M6	5.254	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.21%#			
22) 2,4,6-Tribromophenol	4.392	330	15M2	17.882	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 0.36%#			
31) 4-Terphenyl-d14	5.703	244	200M7	4.802	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 0.19%#			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.132	93	69M6	5.243	ng/ml	
6) n-nitrosodi-n-propylamine	2.482	70	34M2	4.273	ng/ml	
7) Hexachloroethane	2.540	117	32M2	5.361	ng/ml	
10) Naphthalene	2.966	128	245M7	5.425	ng/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL1.D
Acq On : 26 Oct 2023 03:47 pm
Operator : SV125:ah
Sample : IL1,32,,0.005 Lot#10235
Misc : WG1845005,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 10:53:44 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:34:13 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
11) Hexachlorobutadiene	3.042	225	42M7	5.159	ng/ml	
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
13) 1-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
16) 2,6-Dinitrotoluene	0.000		0	N.D.		
17) Acenaphthylene	3.861	152	198M6	4.533	ng/ml	
19) Acenaphthene	3.962	153	162M6	5.220	ng/ml	
20) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
21) Fluorene	4.255	166	160	4.888	ng/ml	98
24) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
25) Hexachlorobenzene	4.574	284	62M6	4.934	ng/ml	
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	4.802	178	278M6	5.115	ng/ml	
28) Anthracene	4.832	178	247M4	4.856	ng/ml	
29) Fluoranthene	5.484	202	293M6	4.903	ng/ml	
30) Pyrene	5.612	202	303	4.839	ng/ml	99
33) Benzo[a]anthracene	0.000		0	N.D.	d	
34) 3,3'-Dichlorobenzene	0.000		0	N.D.	d	
35) Chrysene	0.000		0	N.D.	d	
36) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
38) Benzo[b]fluoranthene	7.191	252	268	4.735	ng/ml	100
39) Benzo[k]fluoranthene	7.216	252	252	4.487	ng/ml	99
40) Benzo[a]pyrene	7.505	252	210	4.232	ng/ml	96
41) Indeno[1,2,3-cd]pyrene	8.802	276	220M6	4.260	ng/ml	
42) Dibenzo[a,h]anthracene	8.837	278	216M1	4.323	ng/ml	
43) Benzo[g,h,i]perylene	9.145	276	253	4.529	ng/ml	94

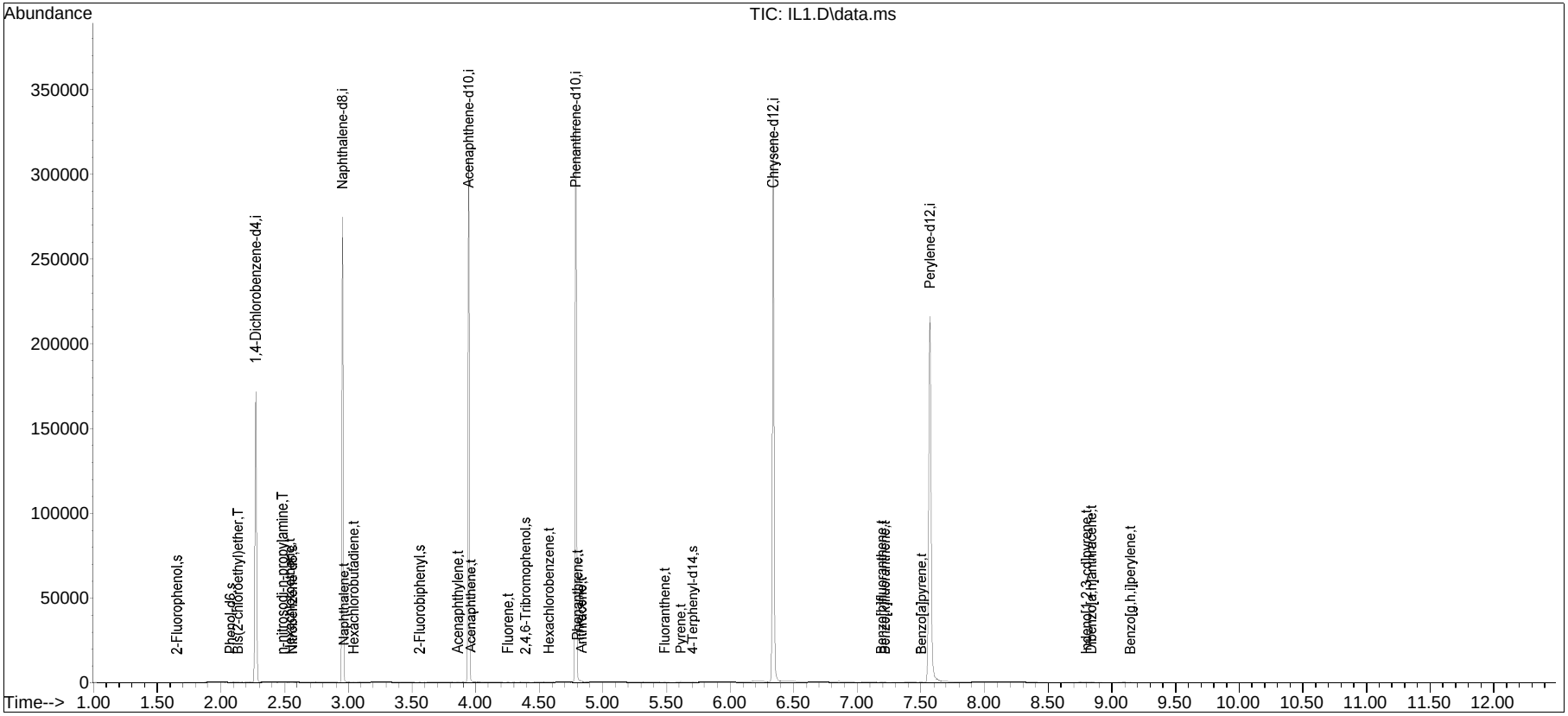
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : IL1.D
Acq On : 26 Oct 2023 03:47 pm
Operator : SV125:ah
Sample : IL1,32,,0.005 Lot#10235
Misc : WG1845005,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 10:53:44 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:34:13 2023
Response via : Initial Calibration

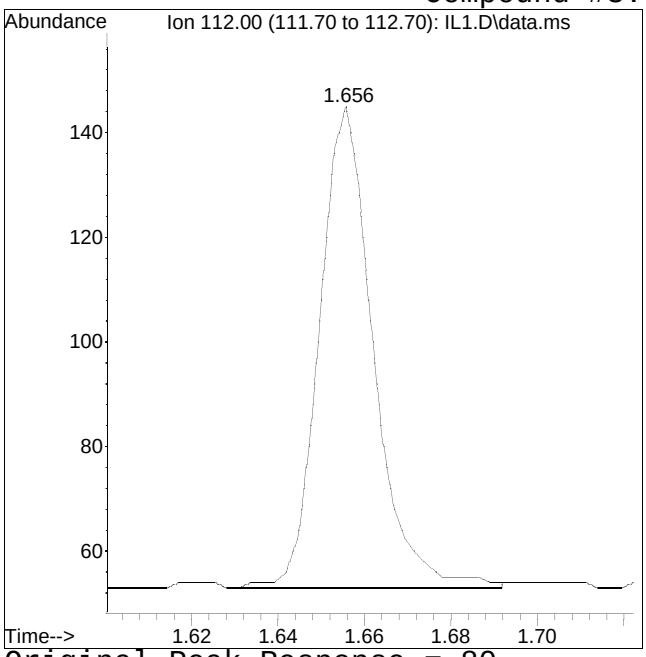
Sub List : Default - All compounds listedIical\IL7.D•



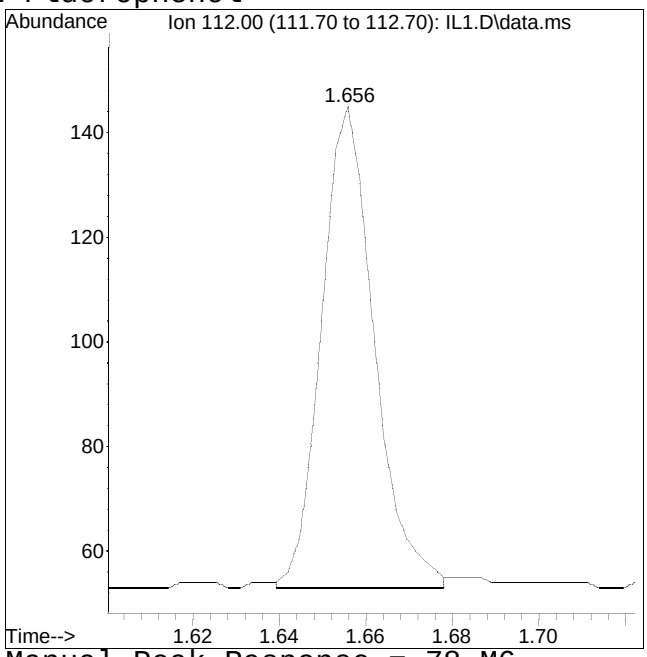
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #3: 2-Fluorophenol



Original Peak Response = 80



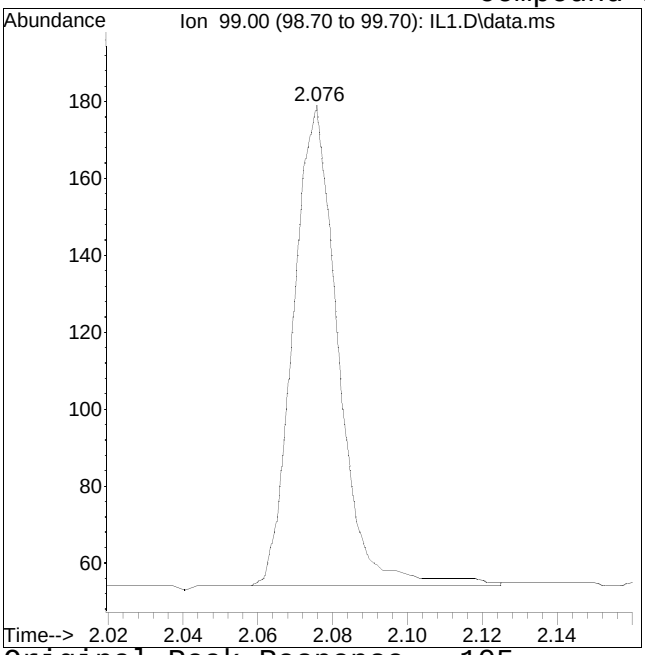
Manual Peak Response = 78 M6

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

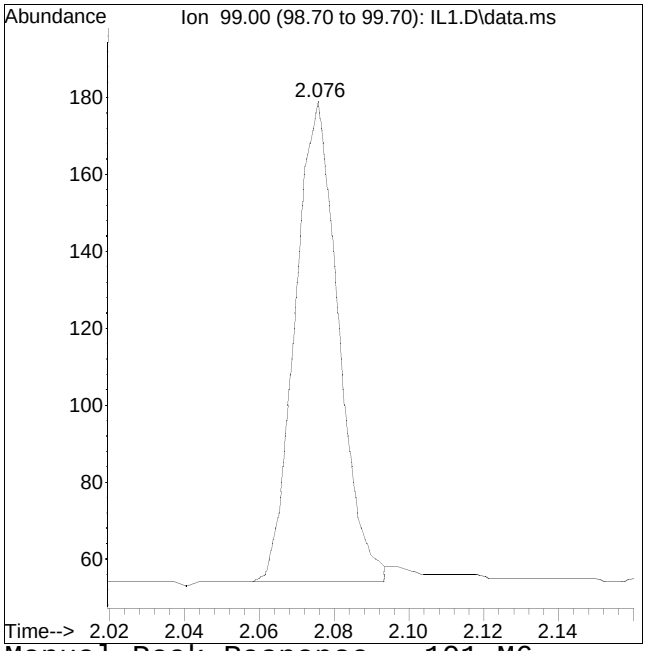
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #4: Phenol-d6



Original Peak Response = 105



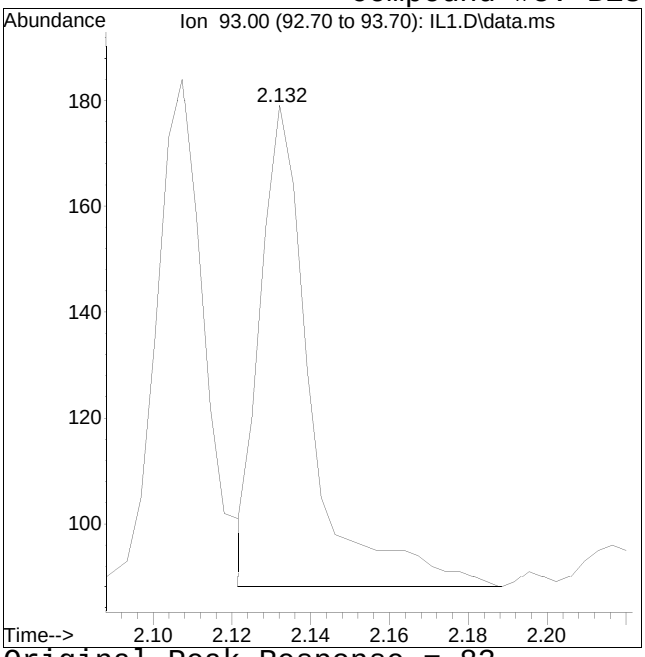
Manual Peak Response = 101 M6

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

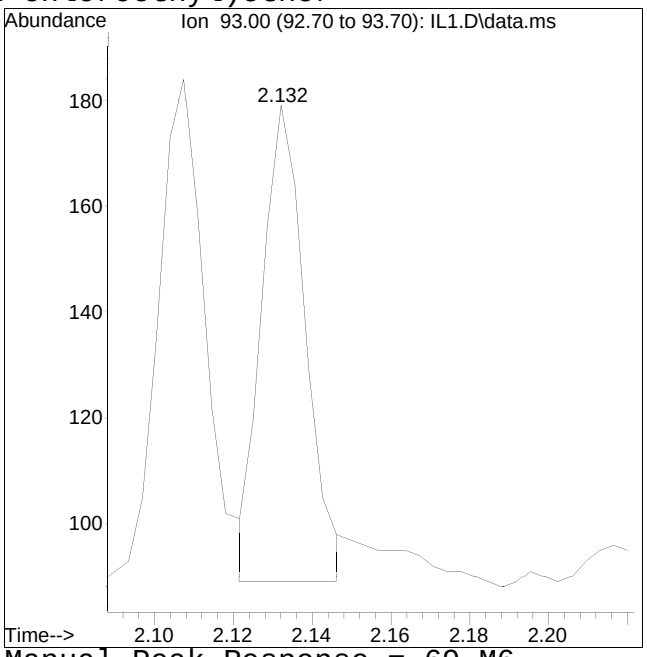
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #5: Bis(2-chloroethyl)ether



Original Peak Response = 83



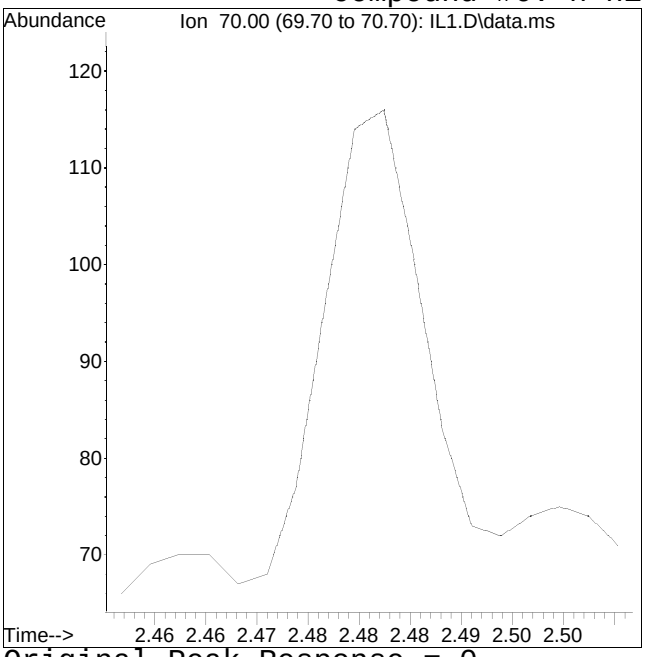
Manual Peak Response = 69 M6

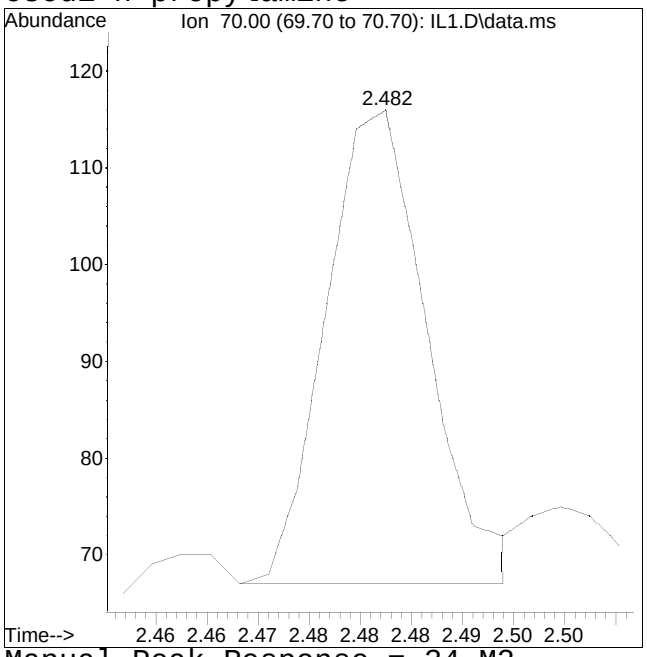
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #6: n-nitrosodi-n-propylamine



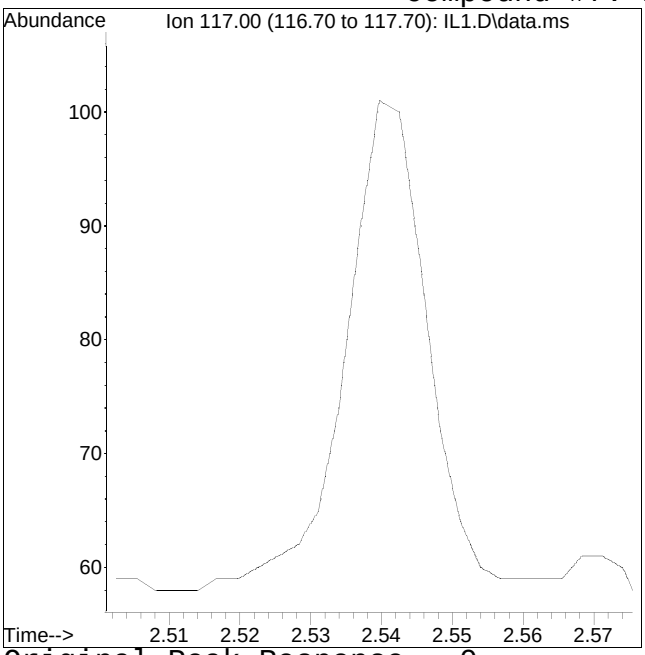


Original Peak Response = 0 Manual Peak Response = 34 M2
M2 = Peak not found by automatic integration algorithm.

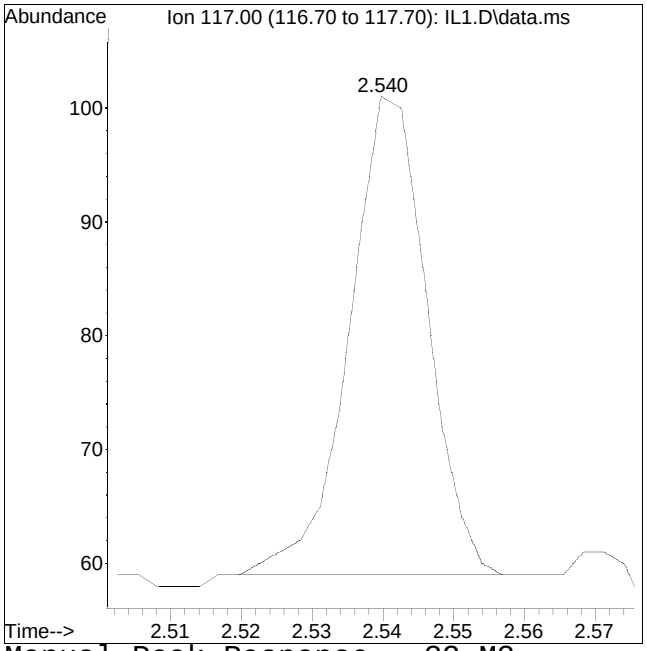
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #7: Hexachloroethane



Original Peak Response = 0



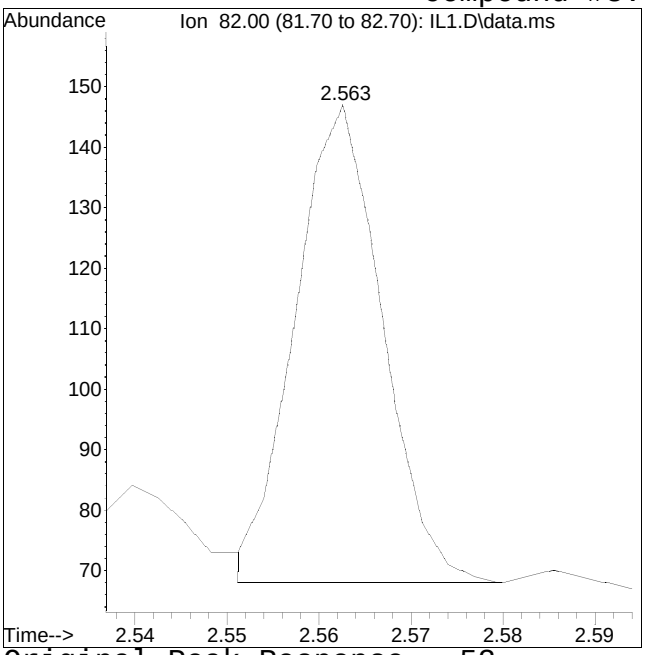
Manual Peak Response = 32 M2

M2 = Peak not found by automatic integration algorithm.

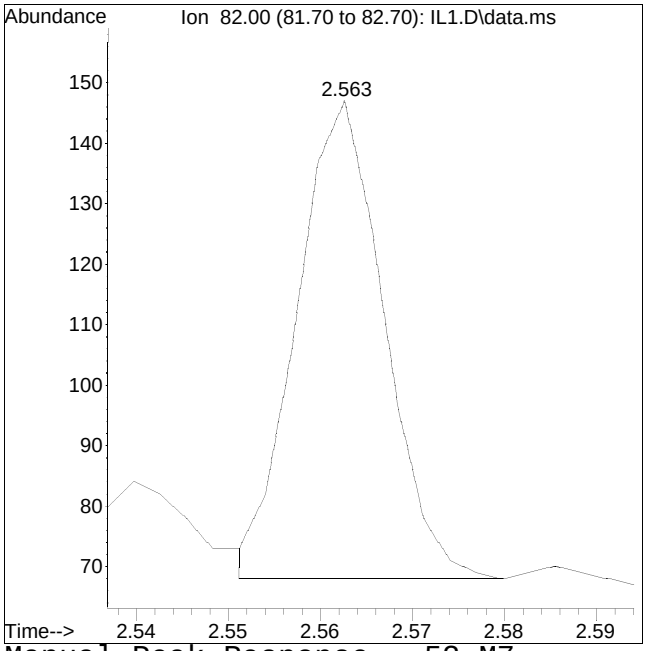
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #8: Nitrobenzene-d5



Original Peak Response = 52



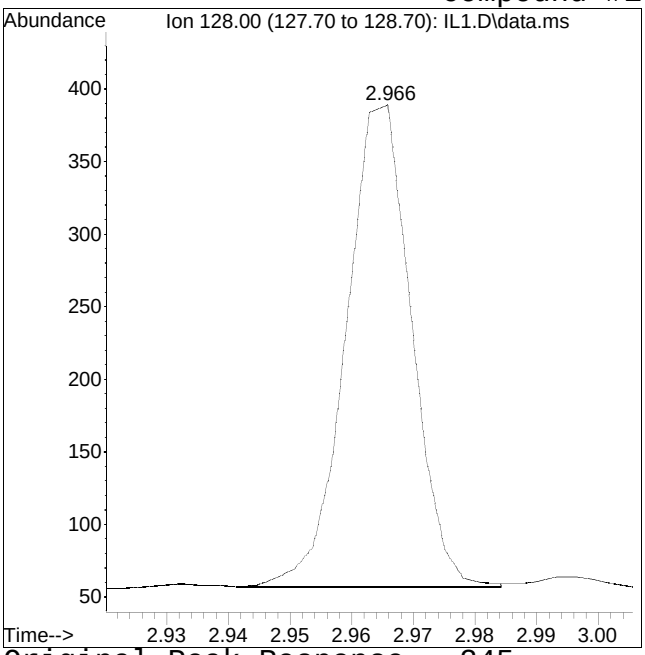
Manual Peak Response = 52 M7

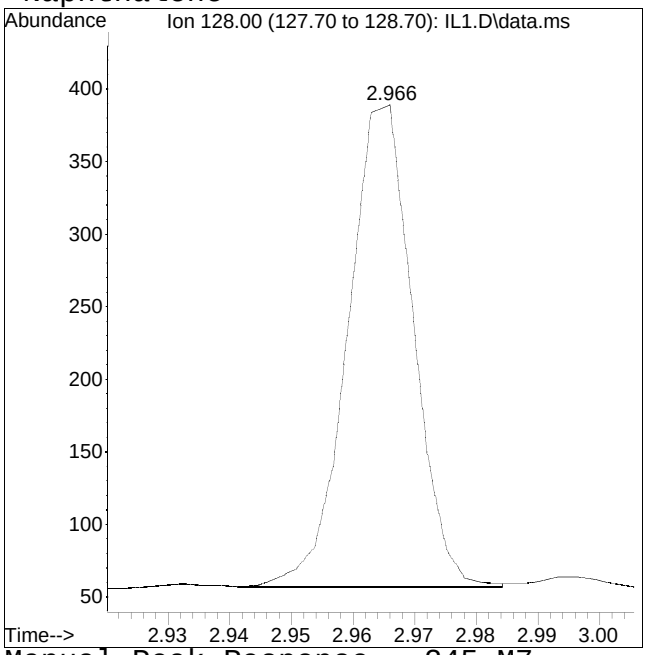
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #10: Naphthalene



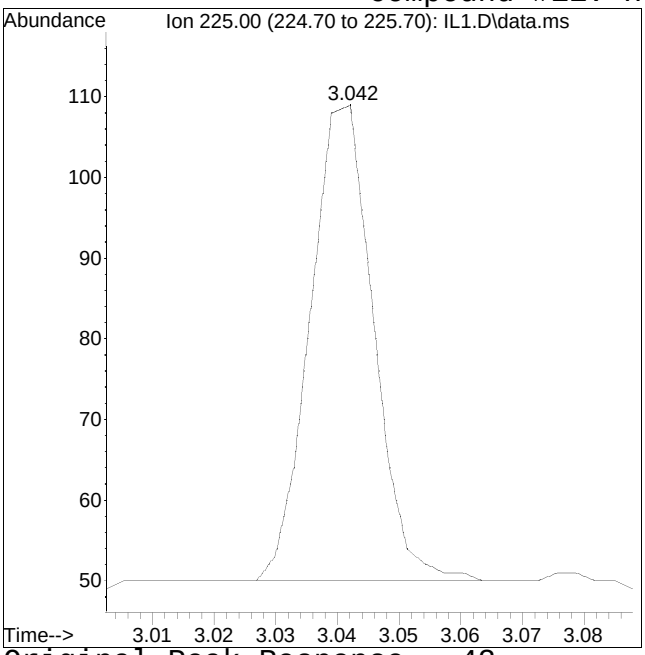


Original Peak Response = 245 Manual Peak Response = 245 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

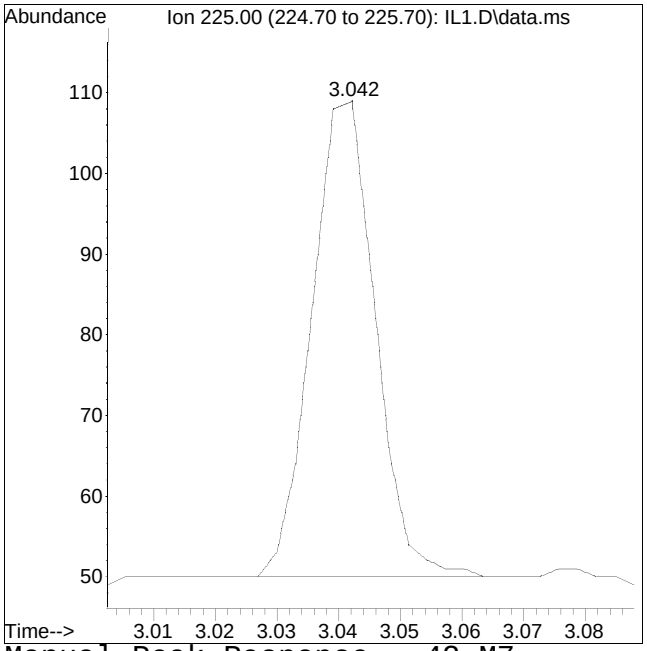
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #11: Hexachlorobutadiene



Original Peak Response = 42



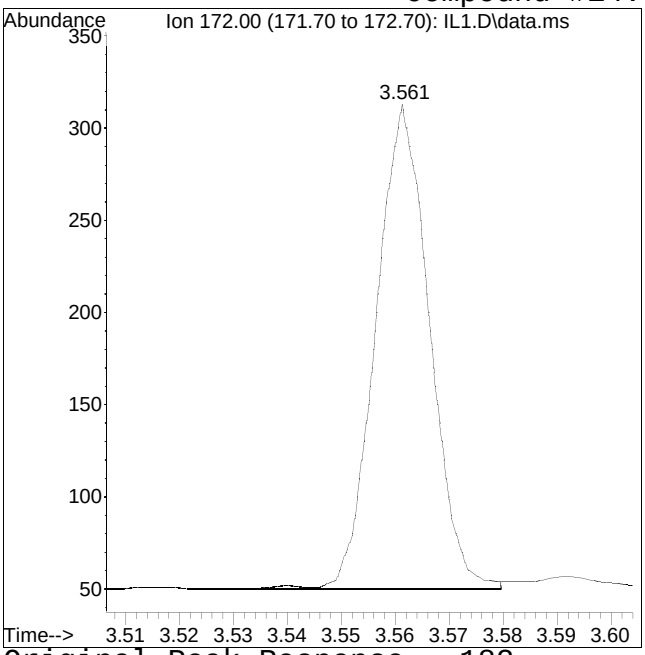
Manual Peak Response = 42 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

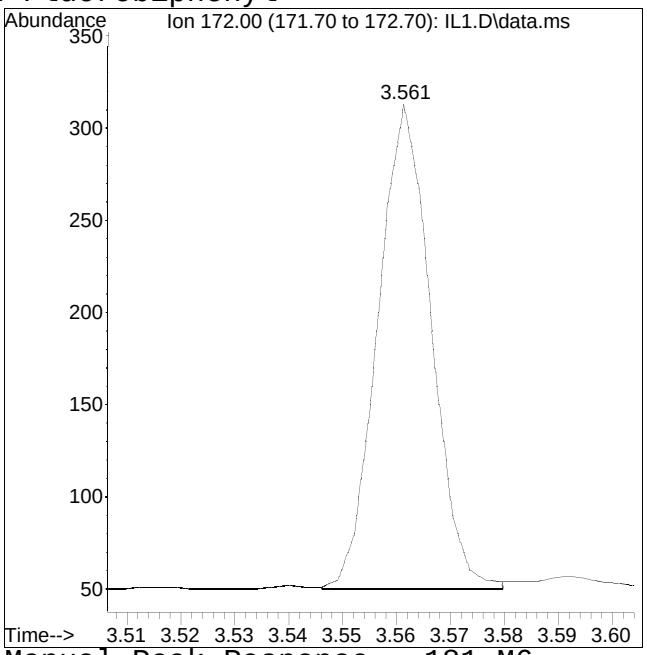
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #14: 2-Fluorobiphenyl



Original Peak Response = 182



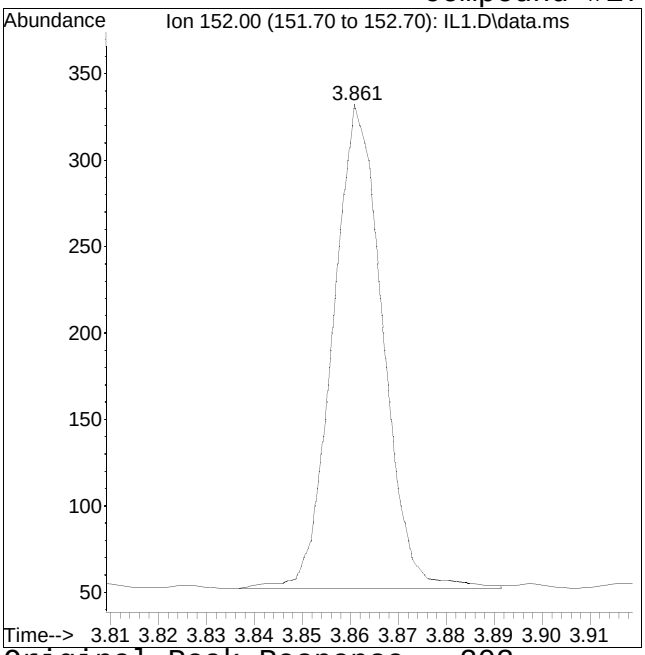
Manual Peak Response = 181 M6

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

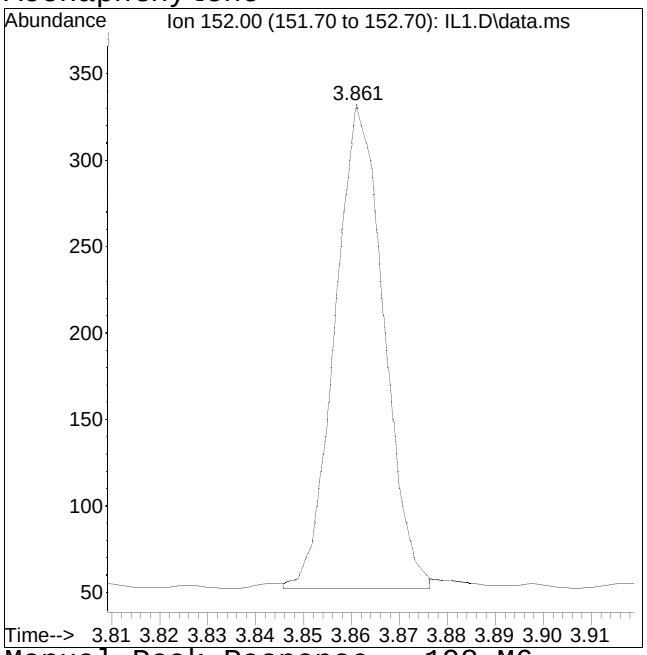
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #17: Acenaphthylene



Original Peak Response = 203



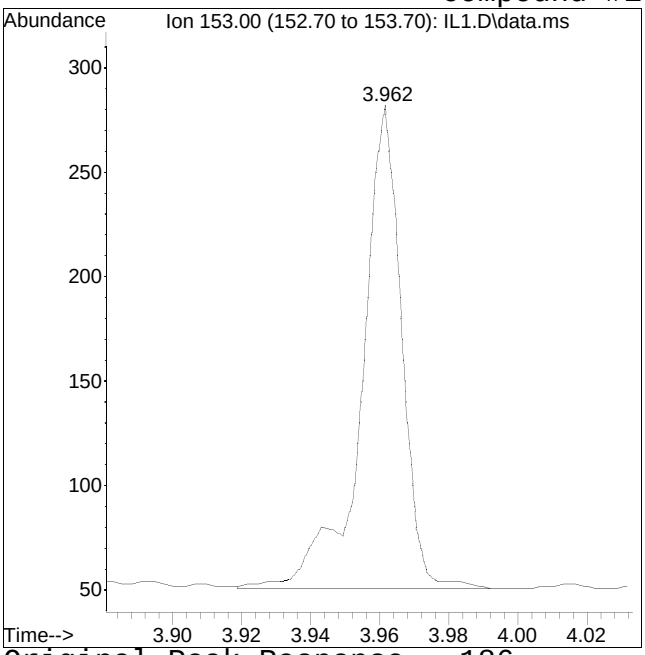
Manual Peak Response = 198 M6

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

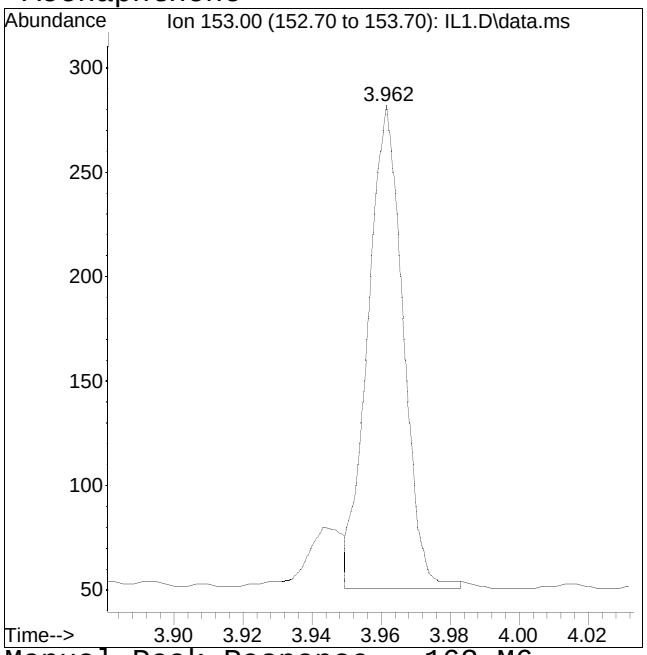
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #19: Acenaphthene



Original Peak Response = 186



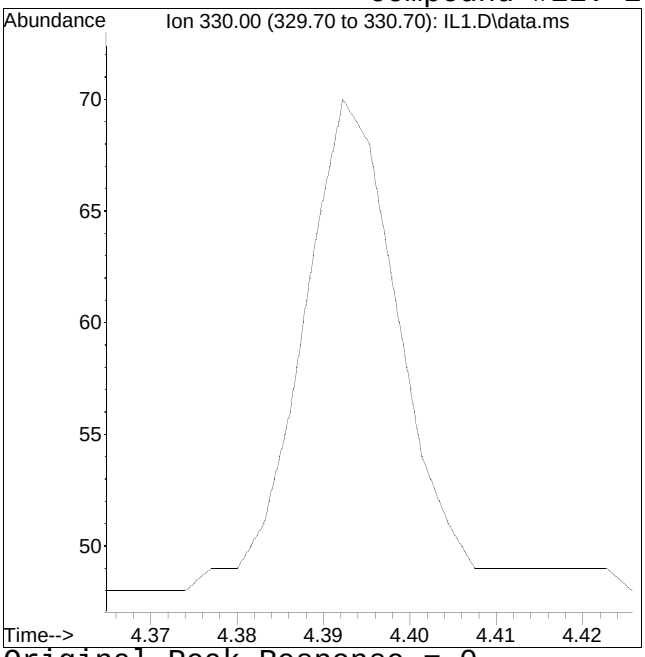
Manual Peak Response = 162 M6

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

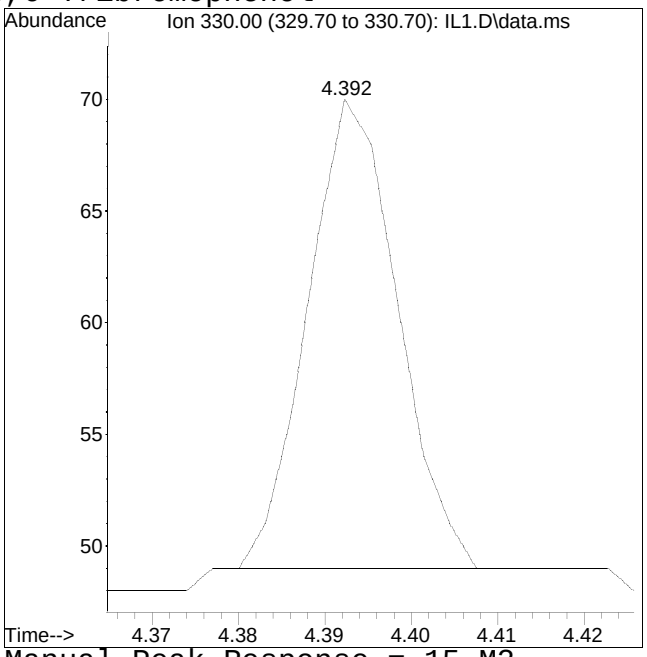
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #22: 2,4,6-Tribromophenol



Original Peak Response = 0



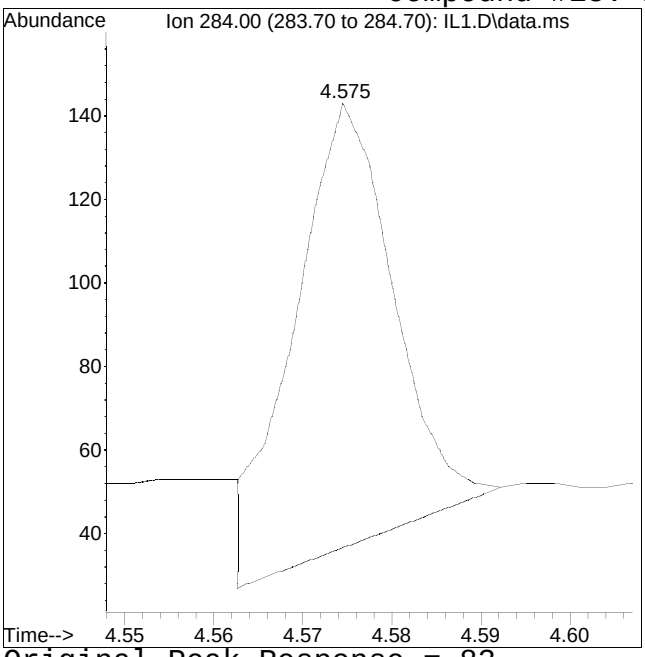
Manual Peak Response = 15 M2

M2 = Peak not found by automatic integration algorithm.

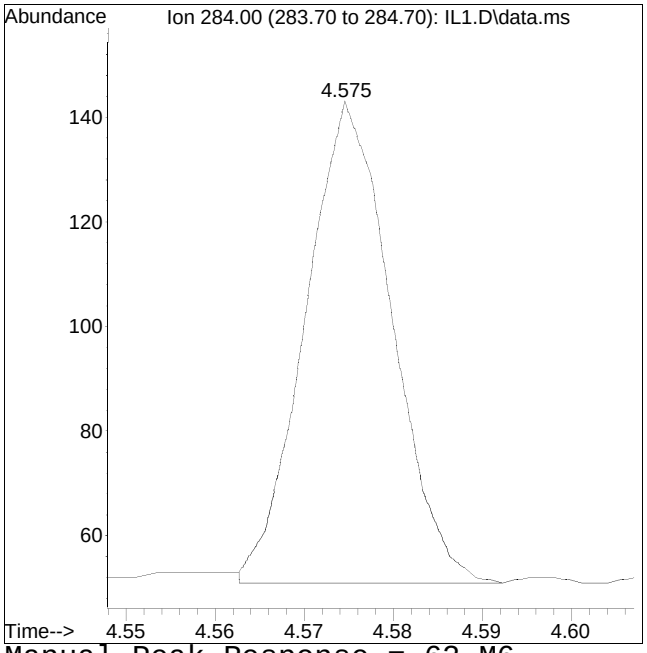
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #25: Hexachlorobenzene



Original Peak Response = 83



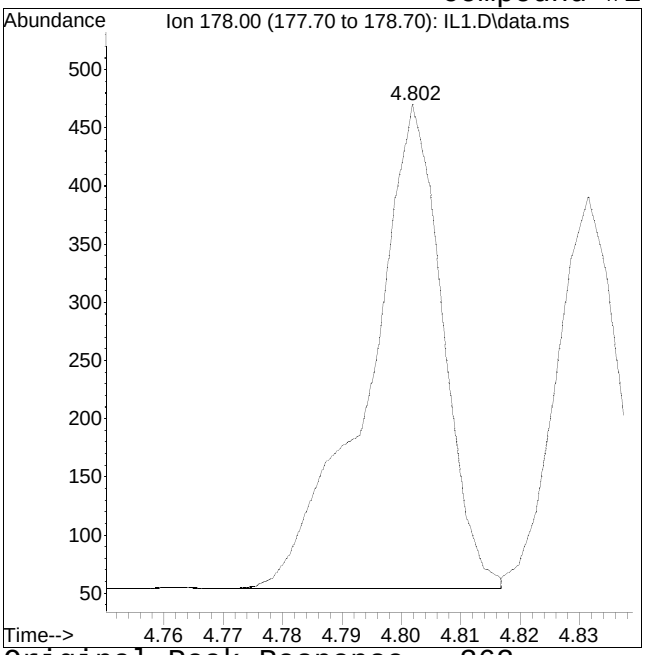
Manual Peak Response = 62 M6

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

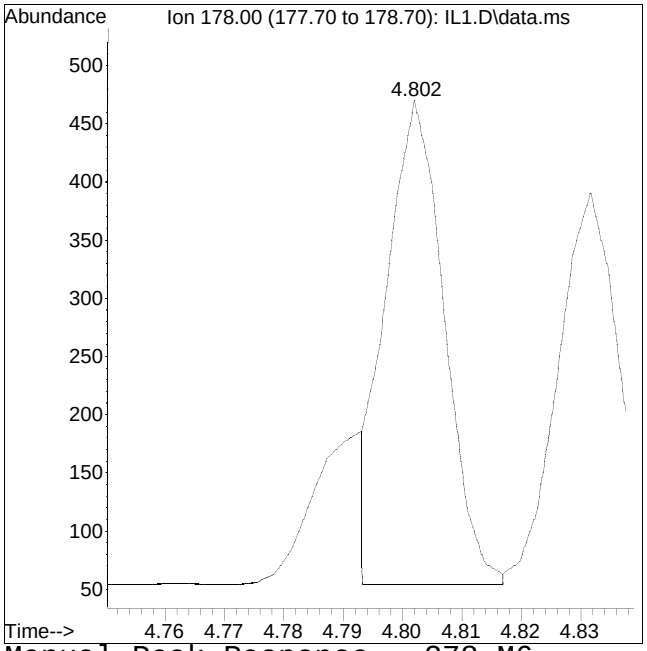
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #27: Phenanthrene



Original Peak Response = 362



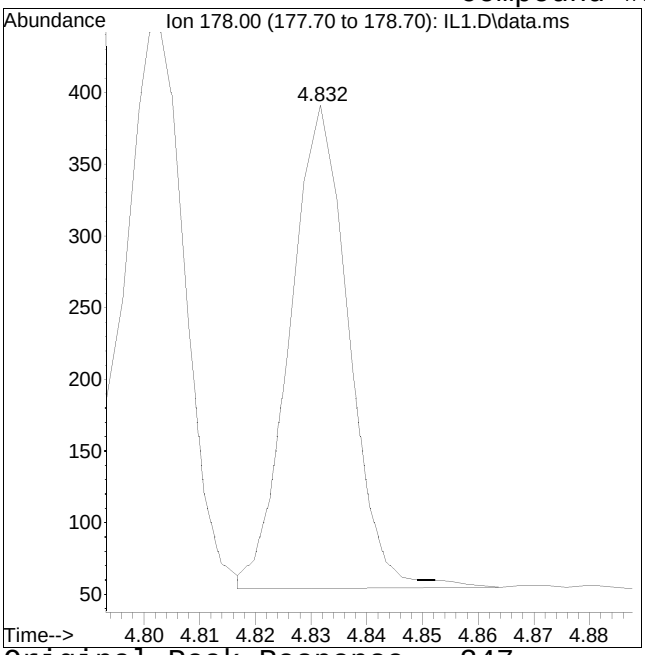
Manual Peak Response = 278 M6

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

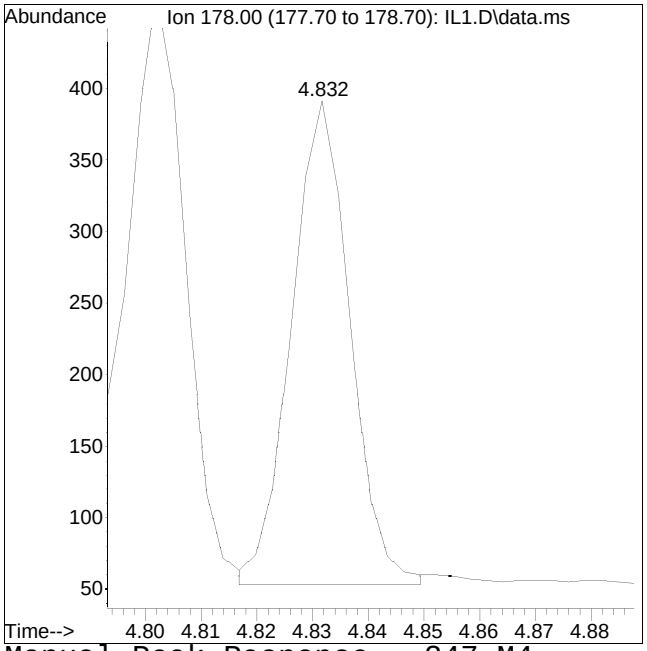
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #28: Anthracene



Original Peak Response = 247

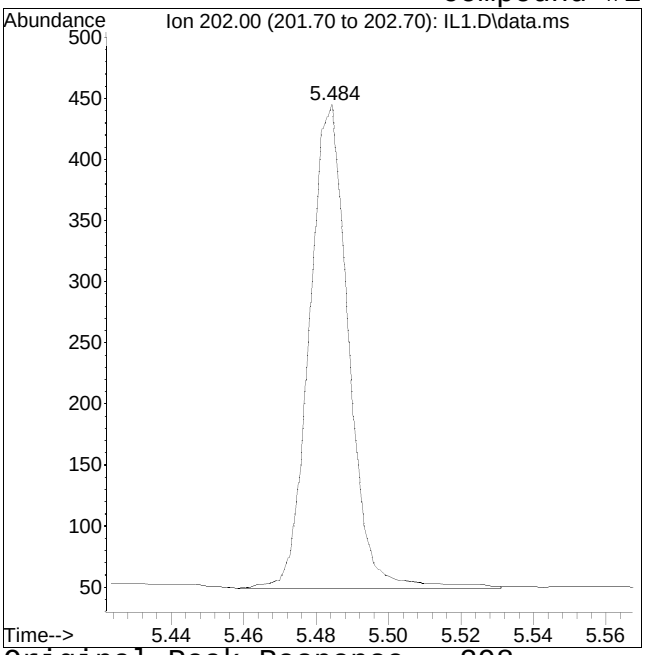


Manual Peak Response = 247 M4

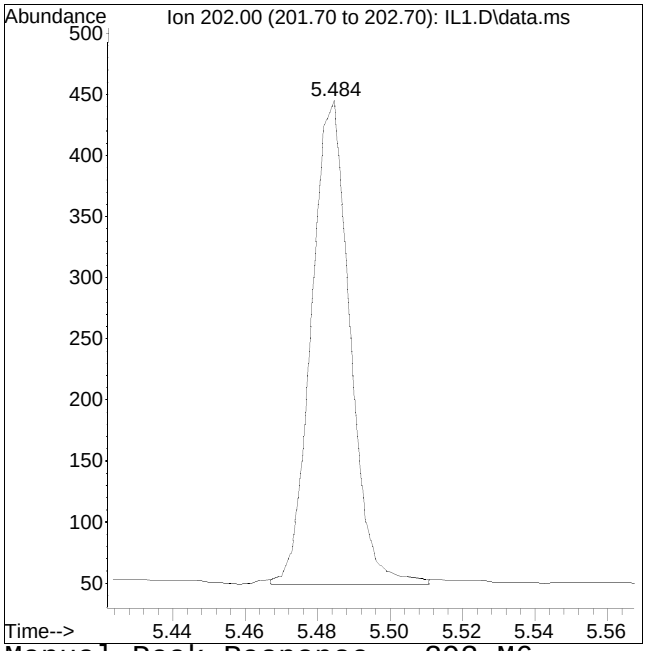
M4 = Poor automated baseline construction.

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #29: Fluoranthene



Original Peak Response = 298



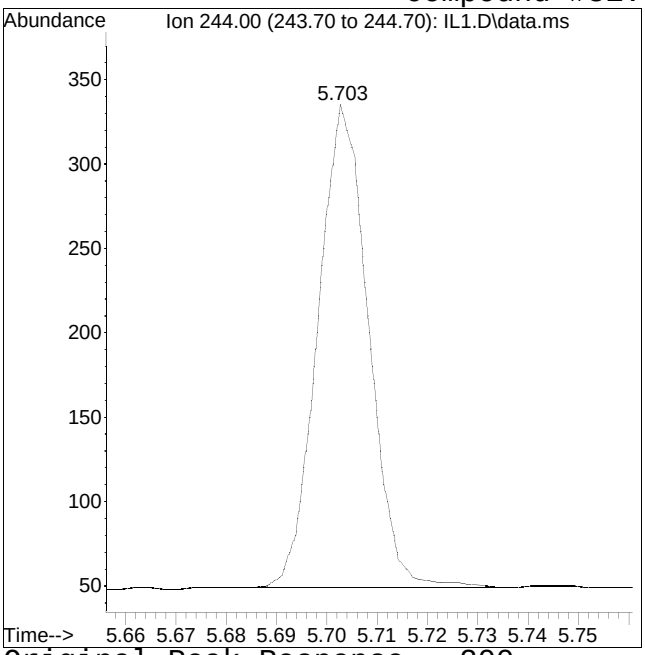
Manual Peak Response = 293 M6

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

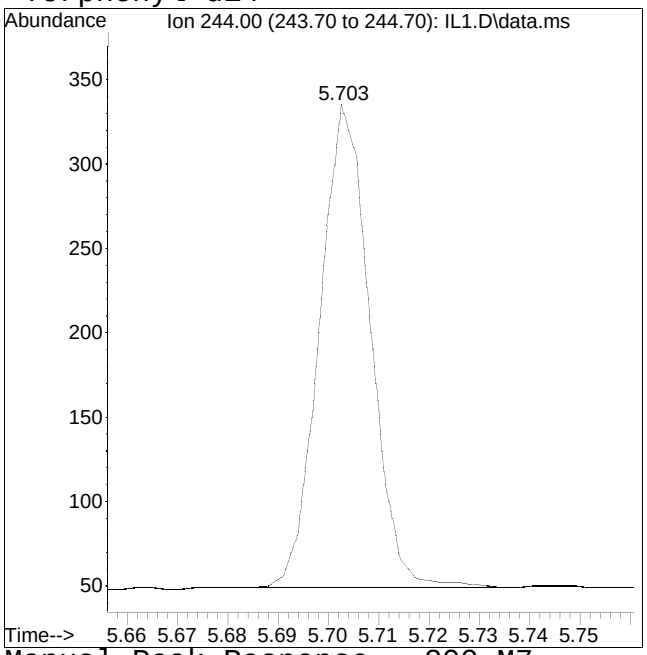
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #31: 4-Terphenyl-d14



Original Peak Response = 200



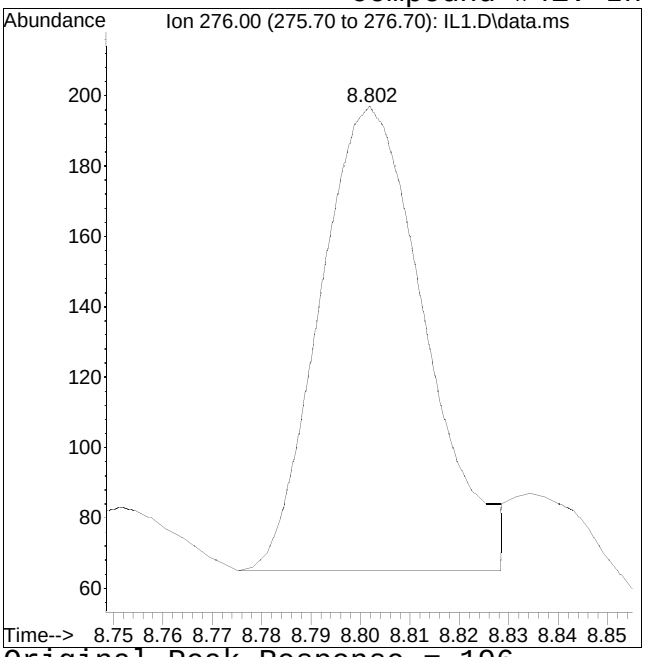
Manual Peak Response = 200 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

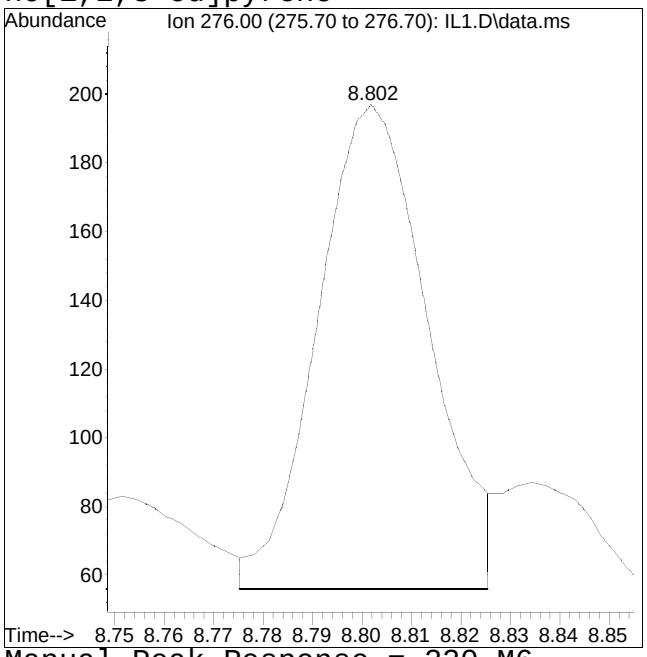
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #41: Indeno[1,2,3-cd]pyrene



Original Peak Response = 196



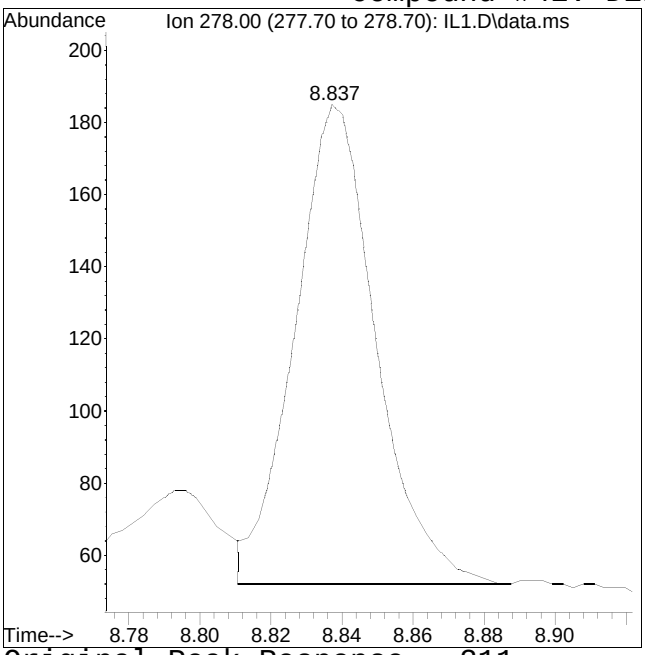
Manual Peak Response = 220 M6

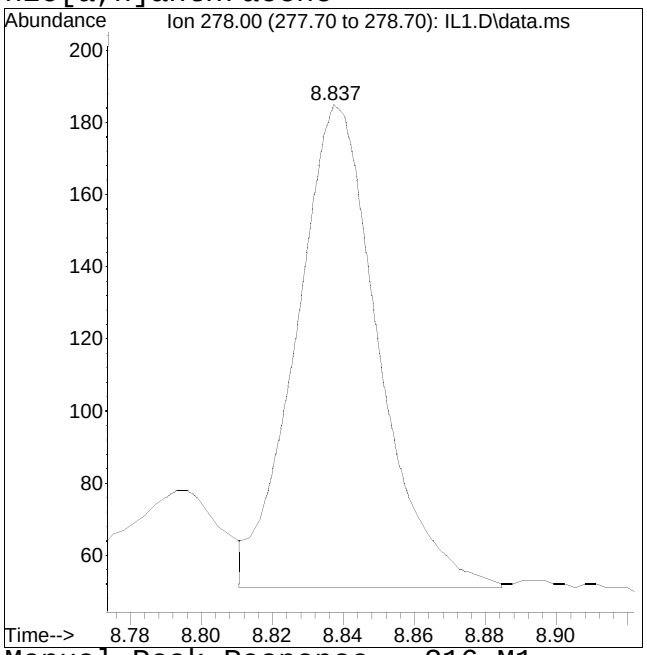
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : IL1.D Operator : SV125:ah
Date Inj'd : 10/26/2023 3:47 pm Instrument : SV125
Sample : IL1,32,,0.005 Lot#10235 Quant Date : 10/27/2023 10:34 am

Compound #42: Dibenzo[a,h]anthracene





Original Peak Response = 211 Manual Peak Response = 216 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : ICV.D
Acq On : 26 Oct 2023 04:04 pm
Operator : SV125:ah
Sample : CQICV,32,,1.0 #10193
Misc : WG1845005,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 10:44:27 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:44:26 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
2	T	1,4-Dioxane	0.000	0.000#	0.0	0#	-1.90#
3	s	2-Fluorophenol	1.015	0.988	2.7	91	0.00
4	s	Phenol-d6	1.174	1.134	3.4	91	0.00
5	T	Bis(2-chloroethyl)ether	1.058	1.094	-3.4	97	0.00
6	T	n-nitrosodi-n-propylamine	0.640	0.605	5.5	91	0.00
7	t	Hexachloroethane	0.480	0.469	2.3	95	0.00
8	s	Nitrobenzene-d5	0.912	0.818	10.3	83	0.00
9	i	Naphthalene-d8	1.000	1.000	0.0	96	0.00
10	t	Naphthalene	1.004	1.032	-2.8	97	0.00
11	t	Hexachlorobutadiene	0.181	0.185	-2.2	98	0.00
12	t	2-Methylnaphthalene	0.645	0.646	-0.2	95	0.00
13	t	1-Methylnaphthalene	0.601	0.637	-6.0	100	0.00
14	s	2-Fluorobiphenyl	0.766	0.780	-1.8	95	0.00
15	t	2-Chloronaphthalene	0.660	0.675	-2.3	98	0.00
16	t	2,6-Dinitrotoluene	*1000.000	736.125	26.4	84	0.00
17	t	Acenaphthylene	0.971	1.008	-3.8	97	0.00
18	i	Acenaphthene-d10	1.000	1.000	0.0	95	0.00
19	t	Acenaphthene	1.298	1.300	-0.2	96	0.00
20	t	2,4-Dinitrotoluene	*1000.000	771.519	22.8	81	0.00
21	t	Fluorene	1.369	1.427	-4.2	97	0.00
22	s	2,4,6-Tribromophenol	*1000.000	873.914	12.6	88	0.00
23	i	Phenanthrene-d10	1.000	1.000	0.0	95	0.00
24	T	4,6-Dinitro-o-cresol	*1000.000	702.110	29.8	73	0.00
25	t	Hexachlorobenzene	0.231	0.239	-3.5	98	0.00
26	t	Pentachlorophenol	*1000.000	878.310	12.2	80	0.00
27	t	Phenanthrene	0.998	1.040	-4.2	99	0.00
28	t	Anthracene	0.934	0.966	-3.4	97	0.00
29	t	Fluoranthene	1.097	1.129	-2.9	97	0.00
30	t	Pyrene	1.150	1.214	-5.6	98	0.00
31	s	4-Terphenyl-d14	0.765	0.769	-0.5	92	0.00
32	i	Chrysene-d12	1.000	1.000	0.0	95	0.00
33	t	Benzo[a]anthracene	*1000.000	951.655	4.8	95	0.00
34	t	3,3'-Dichlorobenzene	0.421	0.356	15.4	86	0.00
35	t	Chrysene	1.286	1.289	-0.2	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : ICV.D
Acq On : 26 Oct 2023 04:04 pm
Operator : SV125:ah
Sample : CQICV,32,,1.0 #10193
Misc : WG1845005,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 10:44:27 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:44:26 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	T	Bis(2-ethylhexyl)phthalate	*1000.000	777.605	22.2	85	0.00
37	i	Perylene-d12	1.000	1.000	0.0	95	0.00
38	t	Benzo[b]fluoranthene	1.078	1.098	-1.9	96	0.00
39	t	Benzo[k]fluoranthene	1.069	1.123	-5.1	93	0.00
40	t	Benzo[a]pyrene	0.945	0.915	3.2	89	0.00
41	t	Indeno[1,2,3-cd]pyrene	0.984	0.925	6.0	89	0.00
42	t	Dibenzo[a,h]anthracene	0.951	1.010	-6.2	96	-0.01
43	t	Benzo[g,h,i]perylene	1.064	1.112	-4.5	96	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : ICV.D
Acq On : 26 Oct 2023 04:04 pm
Operator : SV125:ah
Sample : CQICV,32,,1.0 #10193
Misc : WG1845005,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 10:44:27 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:44:26 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.273	152	50099	4000.000	ng/ml	0.00
Standard Area 1 = 51814			Recovery = 96.69%			
9) Naphthalene-d8	2.953	136	183114	4000.000	ng/ml	0.00
Standard Area 1 = 191147			Recovery = 95.80%			
18) Acenaphthene-d10	3.943	164	99008	4000.000	ng/ml	0.00
Standard Area 1 = 104051			Recovery = 95.15%			
23) Phenanthrene-d10	4.790	188	223463	4000.000	ng/ml	0.00
Standard Area 1 = 234696			Recovery = 95.21%			
32) Chrysene-d12	6.338	240	208332	4000.000	ng/ml	0.00
Standard Area 1 = 218576			Recovery = 95.31%			
37) Perylene-d12	7.567	264	229895	4000.000	ng/ml	0.00
Standard Area 1 = 240994			Recovery = 95.39%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.656	112	12369	973.373	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 19.47%			
4) Phenol-d6	2.076	99	14204	966.210	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 19.32%			
8) Nitrobenzene-d5	2.562	82	10247	896.852	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 35.87%			
14) 2-Fluorobiphenyl	3.561	172	35708	1018.259	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 40.73%			
22) 2,4,6-Tribromophenol	4.392	330	4285	873.914	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 17.48%			
31) 4-Terphenyl-d14	5.702	244	42938	1004.990	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 40.20%			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.132	93	13698	1033.419	ng/ml	97
6) n-nitrosodi-n-propylamine	2.479	70	7575	945.361	ng/ml	98
7) Hexachloroethane	2.542	117	5880	978.201	ng/ml	97
10) Naphthalene	2.965	128	47226	1027.440	ng/ml#	100
11) Hexachlorobutadiene	3.041	225	8461	1021.004	ng/ml	100
12) 2-Methylnaphthalene	3.353	142	29585	1002.670	ng/ml	99
13) 1-Methylnaphthalene	3.408	142	29154	1060.398	ng/ml	99
15) 2-Chloronaphthalene	3.625	162	30923	1023.780	ng/ml	99
16) 2,6-Dinitrotoluene	3.821	165	4414	736.125	ng/ml	98
17) Acenaphthylene	3.860	152	46137	1037.698	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : ICV.D
Acq On : 26 Oct 2023 04:04 pm
Operator : SV125:ah
Sample : CQICV,32,,1.0 #10193
Misc : WG1845005,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 10:44:27 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:44:26 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\SV125\231026aLVIical\IL7.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19) Acenaphthene	3.961	153	32186	1001.800	ng/ml	100
20) 2,4-Dinitrotoluene	4.049	165	5667	771.519	ng/ml	91
21) Fluorene	4.254	166	35321	1042.368	ng/ml	98
24) 4,6-Dinitro-o-cresol	4.282	198	2583M6	702.110	ng/ml	
25) Hexachlorobenzene	4.574	284	13334M6	1034.337	ng/ml	
26) Pentachlorophenol	4.683	266	4576	878.310	ng/ml	100
27) Phenanthrene	4.801	178	58092	1041.967	ng/ml	100
28) Anthracene	4.831	178	53951	1033.844	ng/ml	100
29) Fluoranthene	5.481	202	63100	1029.252	ng/ml	98
30) Pyrene	5.612	202	67814	1055.791	ng/ml	100
33) Benzo[a]anthracene	6.330	228	62023	951.655	ng/ml	99
34) 3,3'-Dichlorobenzene	6.316	252	18541	845.649	ng/ml	100
35) Chrysene	6.354	228	67113	1001.685	ng/ml	99
36) Bis(2-ethylhexyl)phtha...	6.354	149	22659	777.605	ng/ml	98
38) Benzo[b]fluoranthene	7.193	252	63123	1018.891	ng/ml	96
39) Benzo[k]fluoranthene	7.215	252	64536	1049.957	ng/ml	96
40) Benzo[a]pyrene	7.504	252	52576	968.119	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.801	276	53175	940.693	ng/ml	96
42) Dibenzo[a,h]anthracene	8.836	278	58025M6	1061.118	ng/ml	
43) Benzo[g,h,i]perylene	9.146	276	63938	1045.837	ng/ml	98

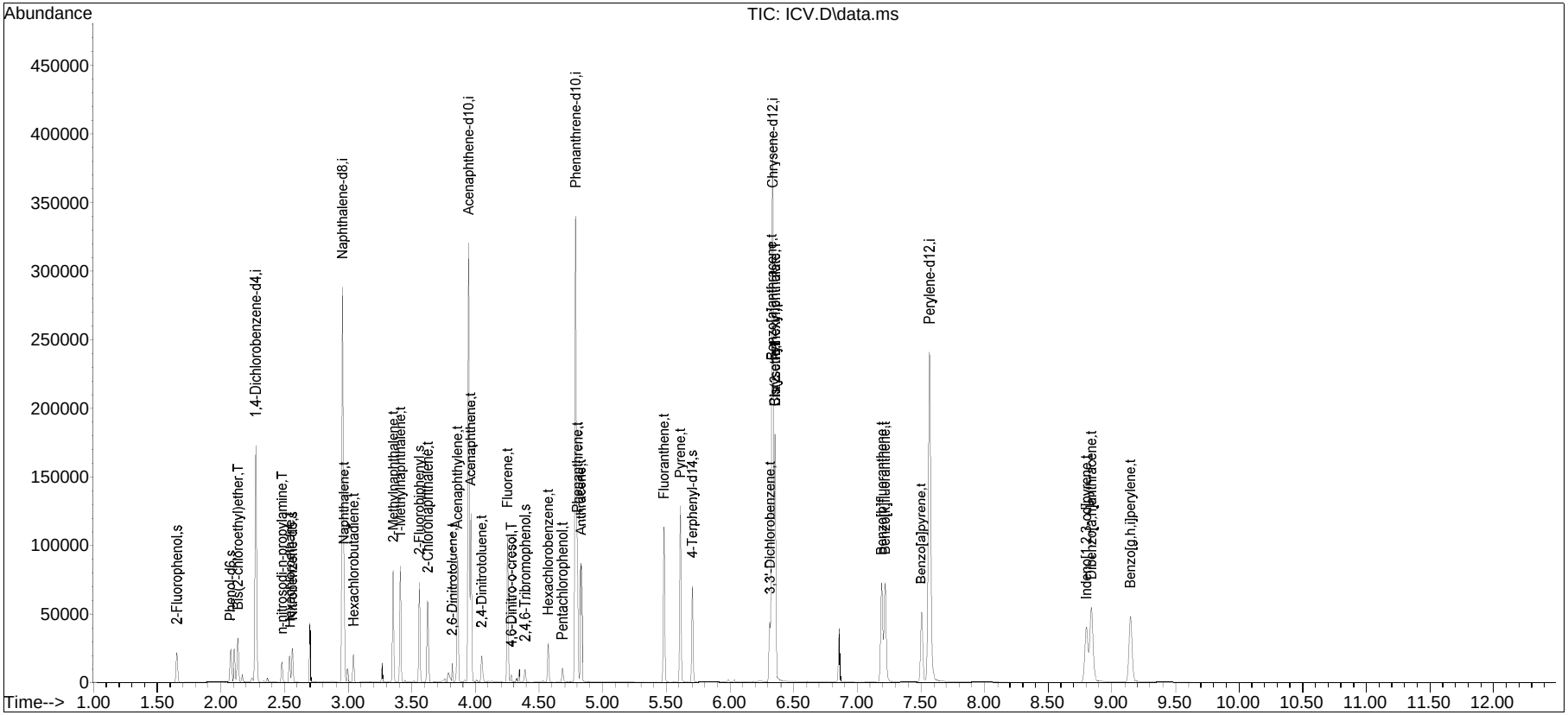
(#) = qualifier out of range (m) = manual integration (+) = signals summed

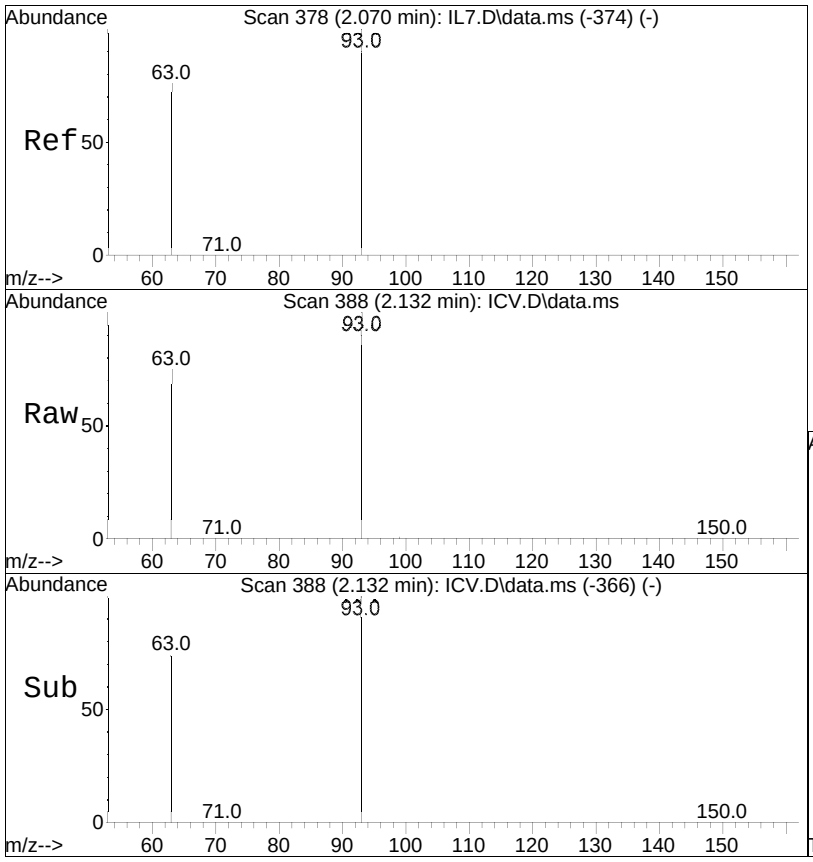
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231026aLVIical\
Data File : ICV.D
Acq On : 26 Oct 2023 04:04 pm
Operator : SV125:ah
Sample : CQICV,32,,1.0 #10193
Misc : WG1845005,,ical
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 27 10:44:27 2023
Quant Method : I:\8270SIM\SV125\231026aLVIical\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Oct 27 10:44:26 2023
Response via : Initial Calibration

Sub List : Default - All compounds listedIical\IL7.D•

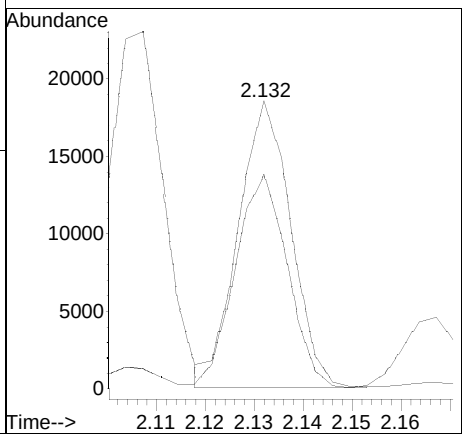


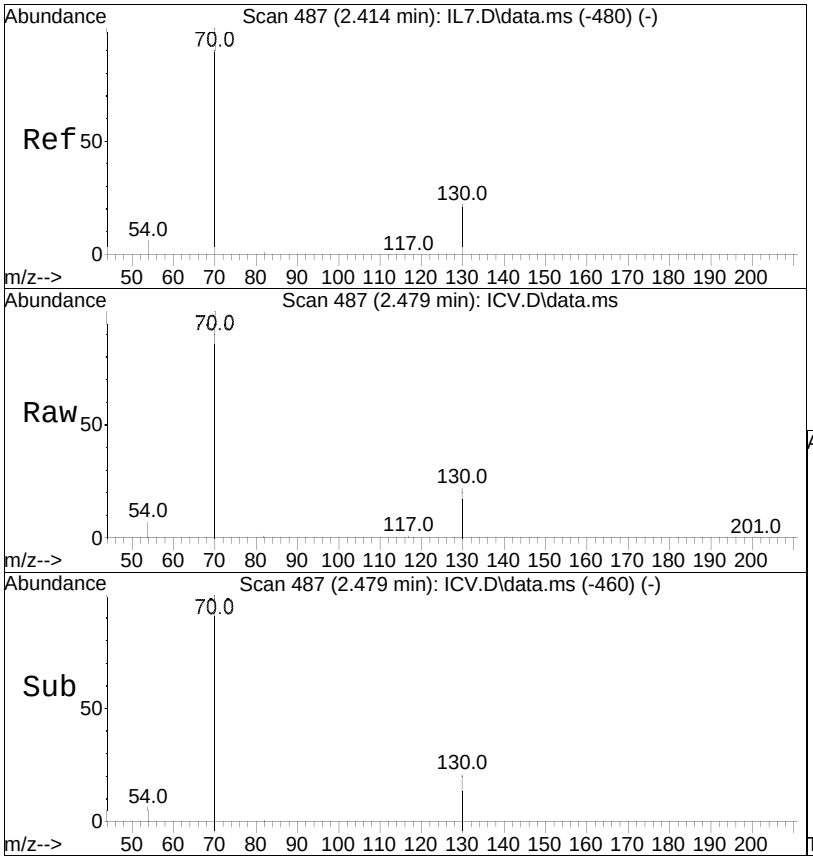


#5
Bis(2-chloroethyl)ether
Concen: 1033.42 ng/ml
RT: 2.132 min Scan# 388
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion: 93 Resp: 13698

Ion	Ratio	Lower	Upper
93	100		
63	73.9	61.3	91.9

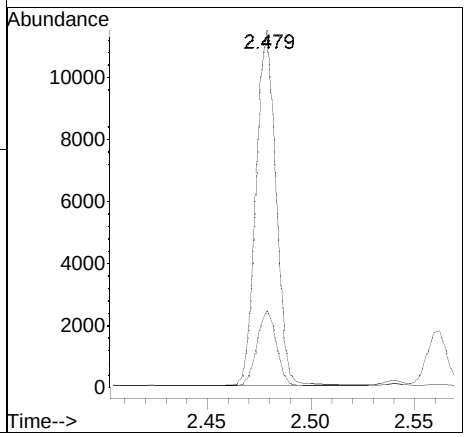


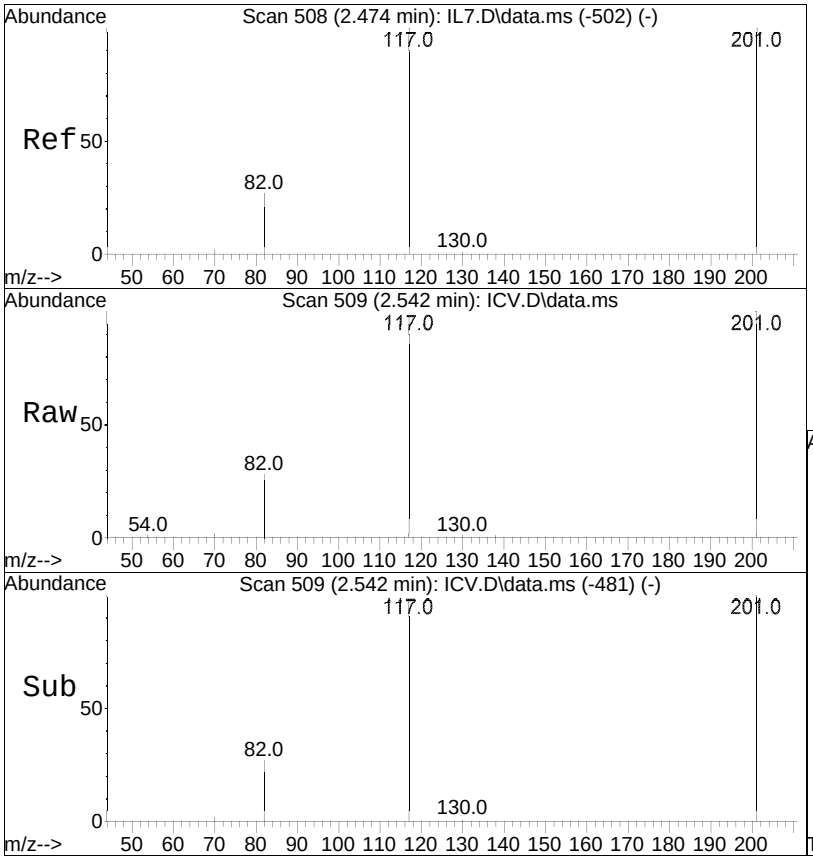


#6
n-nitrosodi-n-propylamine
Concen: 945.36 ng/ml
RT: 2.479 min Scan# 487
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion: 70 Resp: 7575

Ion	Ratio	Lower	Upper
70	100		
130	20.9	17.6	26.4

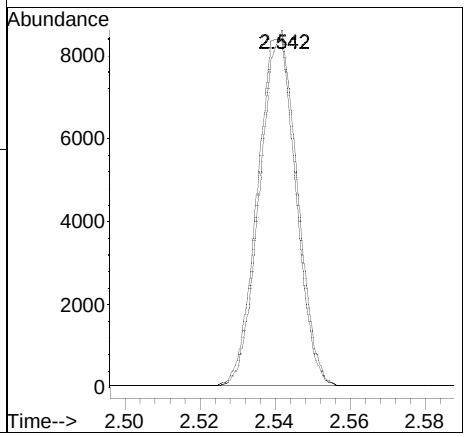


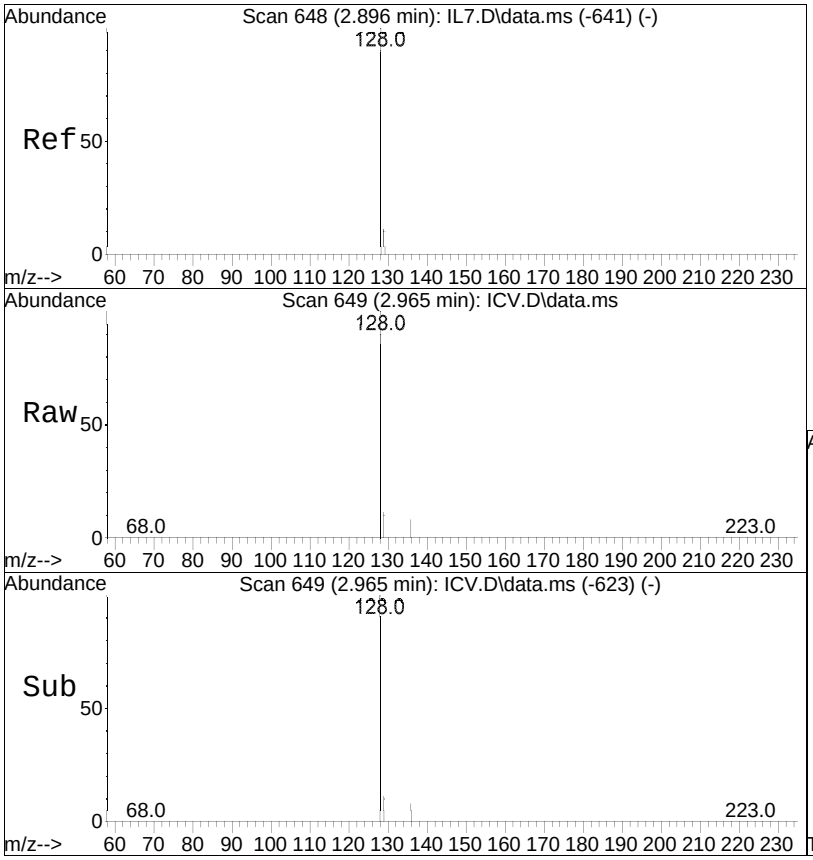


#7
Hexachloroethane
Concen: 978.20 ng/ml
RT: 2.542 min Scan# 509
Delta R.T. 0.001 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:117 Resp: 5880

Ion	Ratio	Lower	Upper
117	100		
201	99.3	81.9	122.9

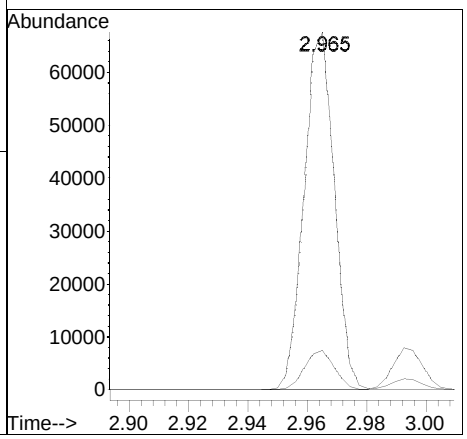


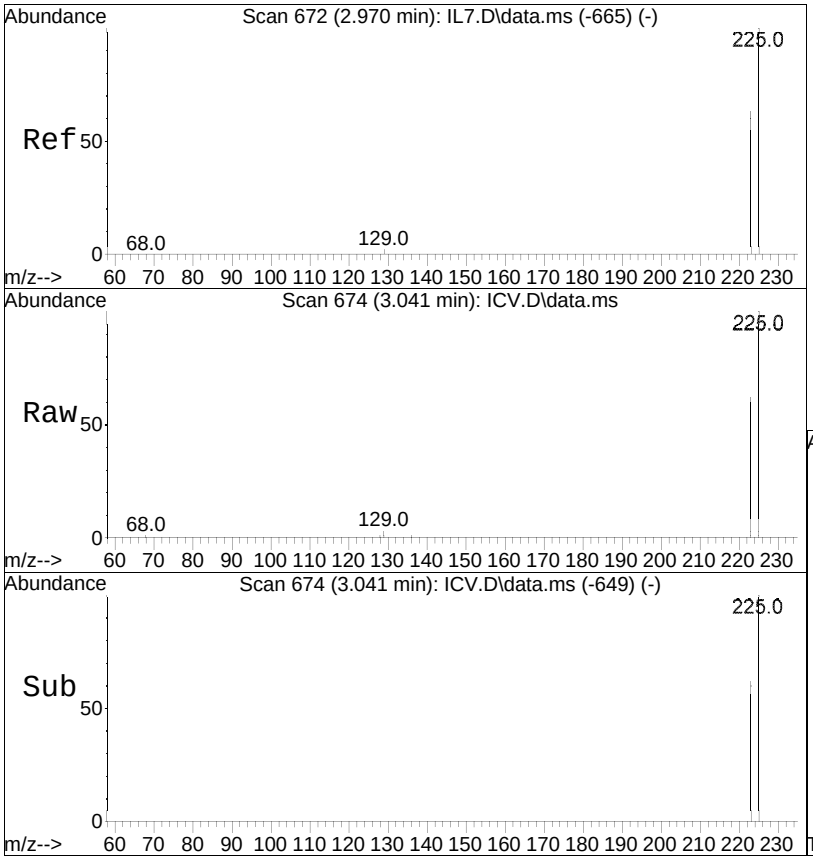


#10
Naphthalene
Concen: 1027.44 ng/ml
RT: 2.965 min Scan# 649
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:128 Resp: 47226

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	0.0	0.0	0.0

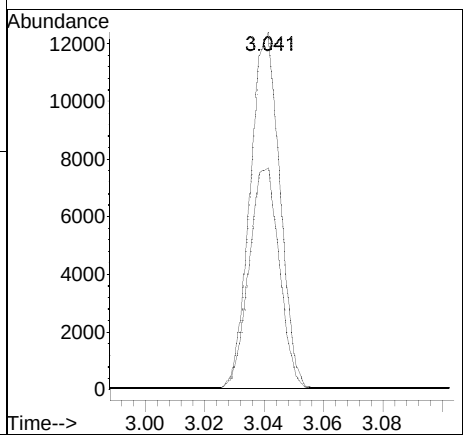


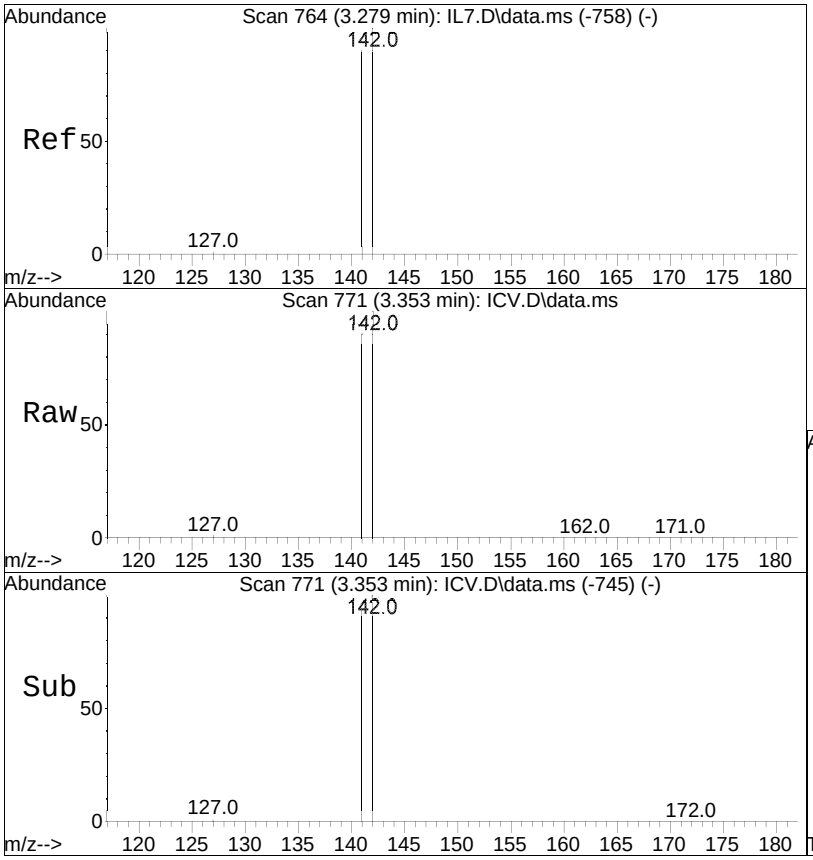


#11
Hexachlorobutadiene
Concen: 1021.00 ng/ml
RT: 3.041 min Scan# 674
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:225 Resp: 8461

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.2

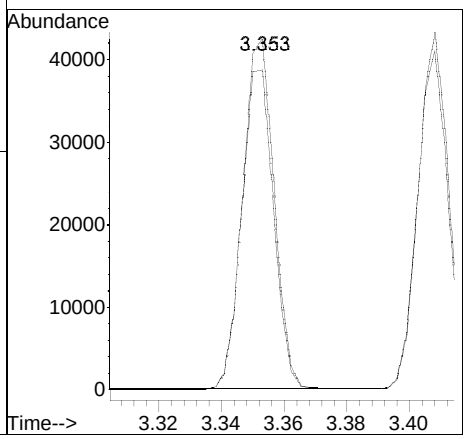


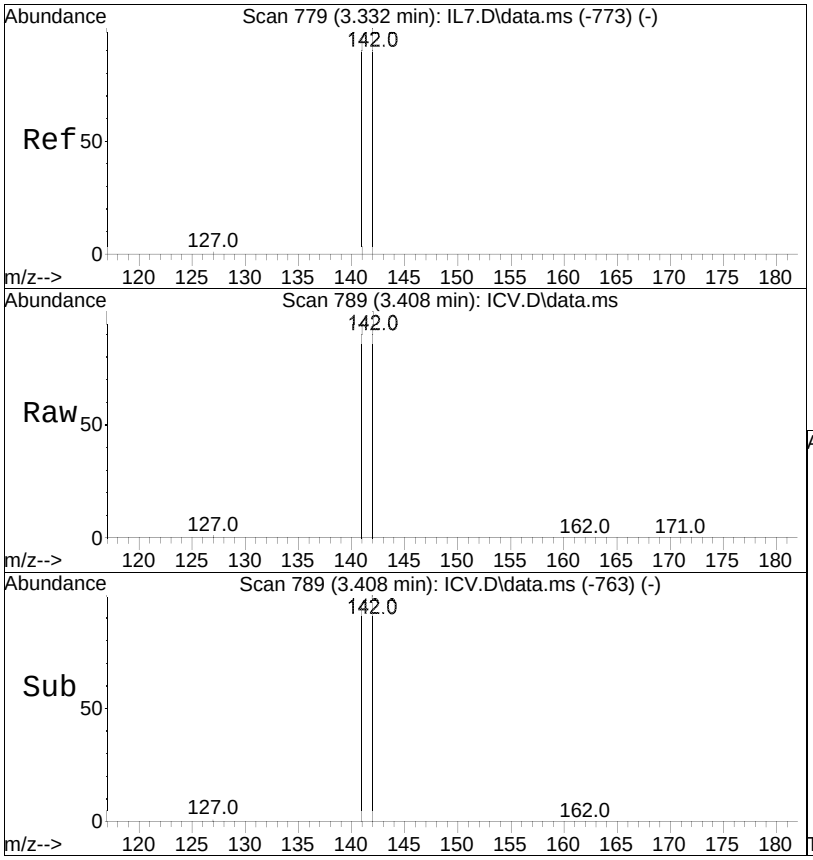


#12
2-Methylnaphthalene
Concen: 1002.67 ng/ml
RT: 3.353 min Scan# 771
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:142 Resp: 29585

Ion	Ratio	Lower	Upper
142	100		
141	92.9	73.6	110.4

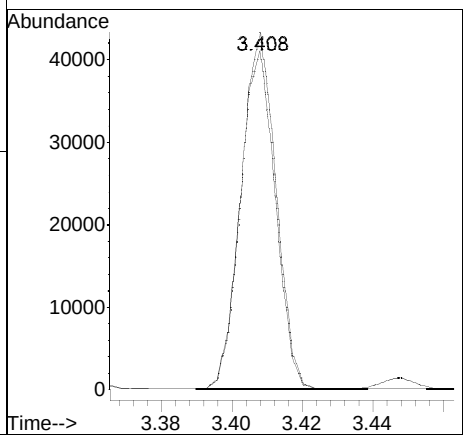


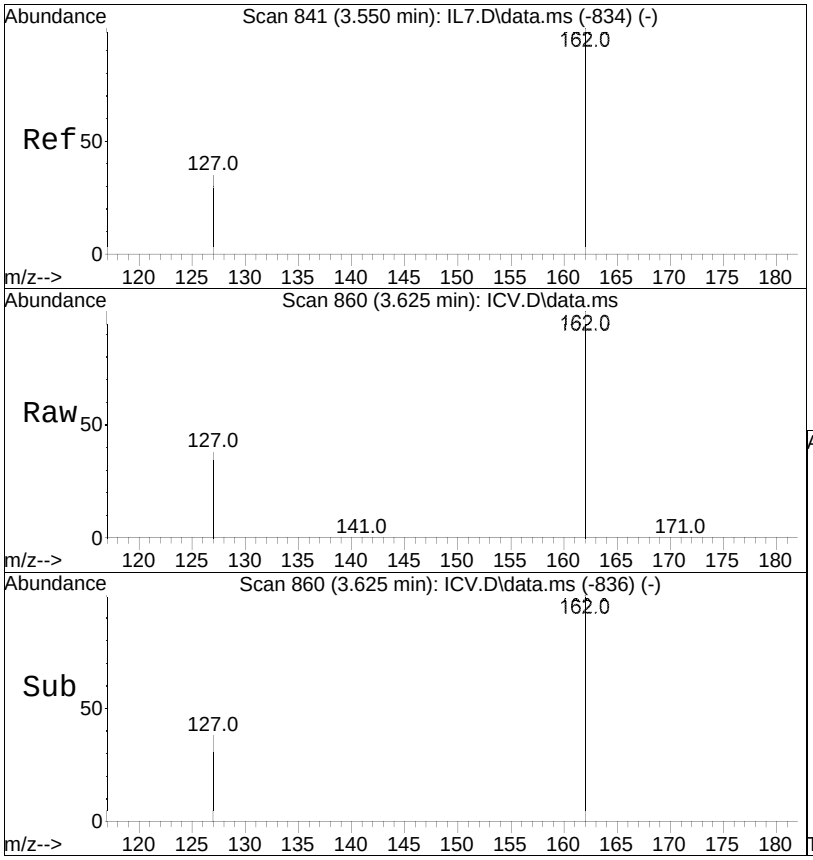


#13
1-Methylnaphthalene
Concen: 1060.40 ng/ml
RT: 3.408 min Scan# 789
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:142 Resp: 29154

Ion	Ratio	Lower	Upper
142	100		
141	95.7	76.1	114.1

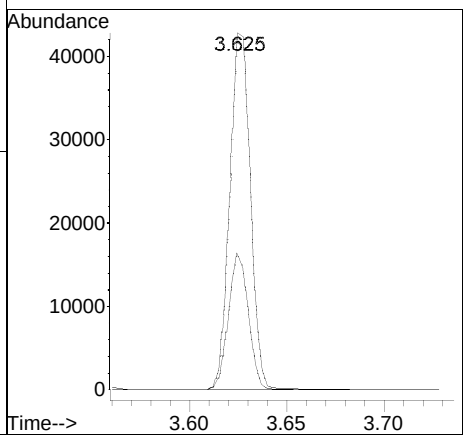


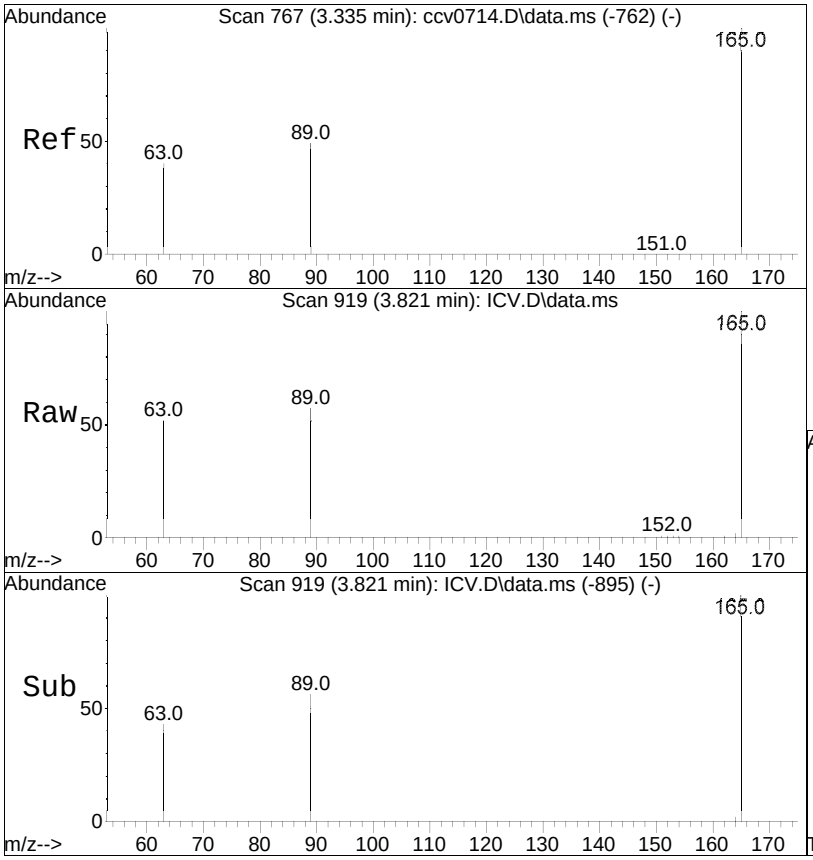


#15
2-Chloronaphthalene
Concen: 1023.78 ng/ml
RT: 3.625 min Scan# 860
Delta R.T. -0.005 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:162 Resp: 30923

Ion	Ratio	Lower	Upper
162	100		
127	37.0	29.1	43.7

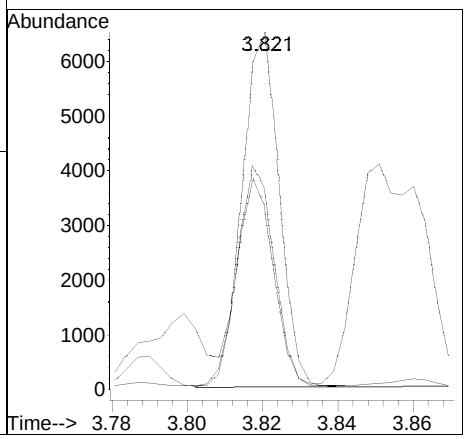


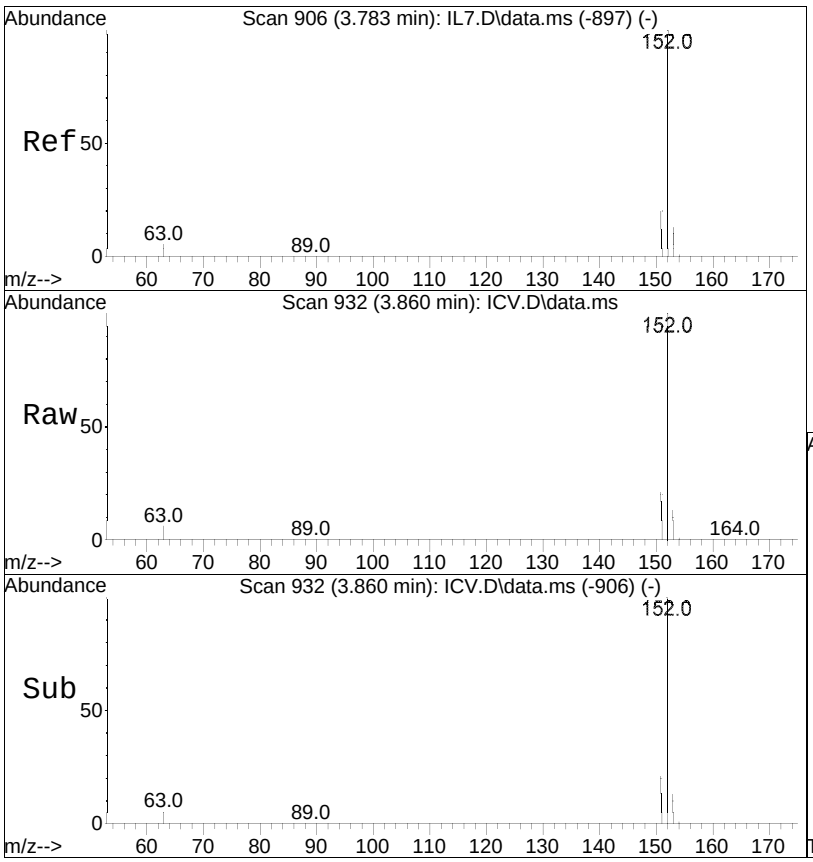


#16
2,6-Dinitrotoluene
Concen: 736.12 ng/ml
RT: 3.821 min Scan# 919
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:165 Resp: 4414

Ion	Ratio	Lower	Upper
165	100		
89	62.3	47.8	71.6
63	55.8	45.2	67.8

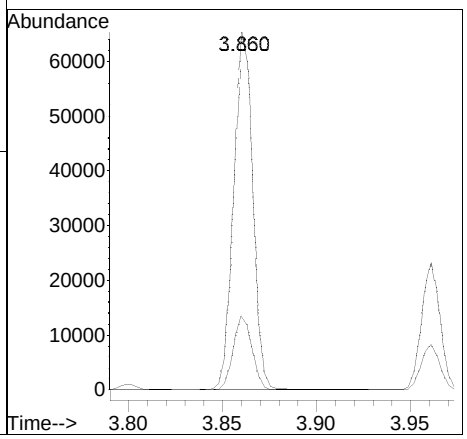


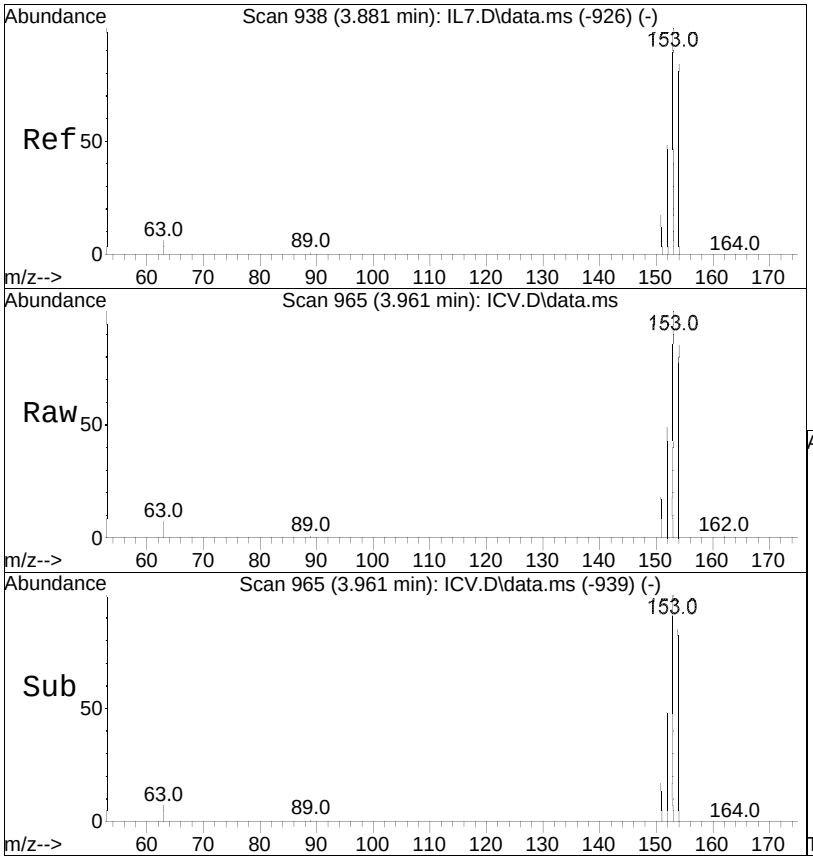


#17
Acenaphthylene
Concen: 1037.70 ng/ml
RT: 3.860 min Scan# 932
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:152 Resp: 46137

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.8	23.8

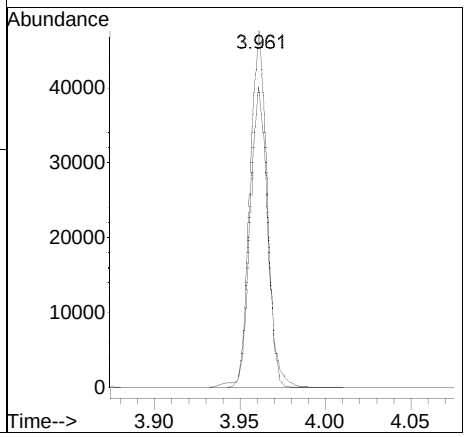


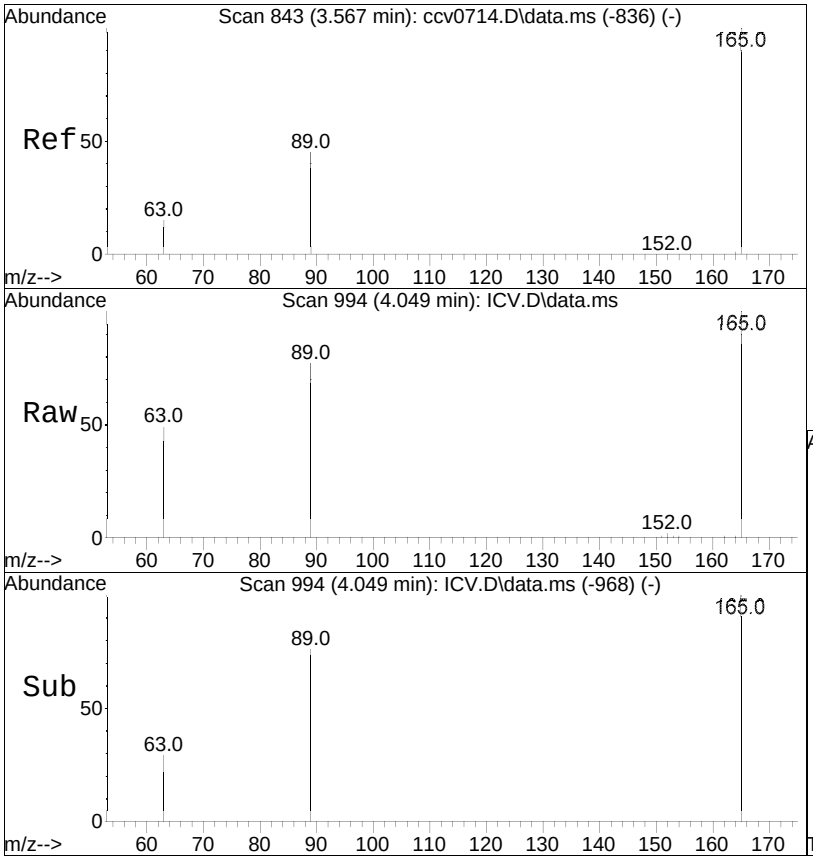


#19
Acenaphthene
Concen: 1001.80 ng/ml
RT: 3.961 min Scan# 965
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:153 Resp: 32186

Ion	Ratio	Lower	Upper
153	100		
154	88.7	70.8	106.2

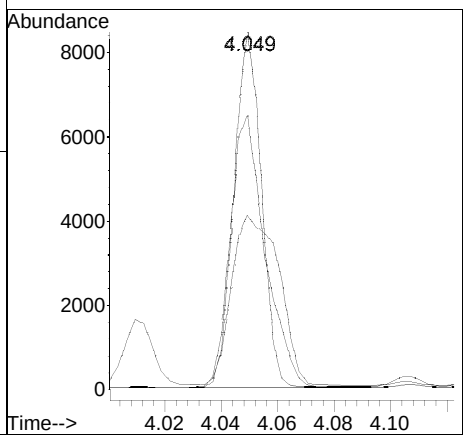


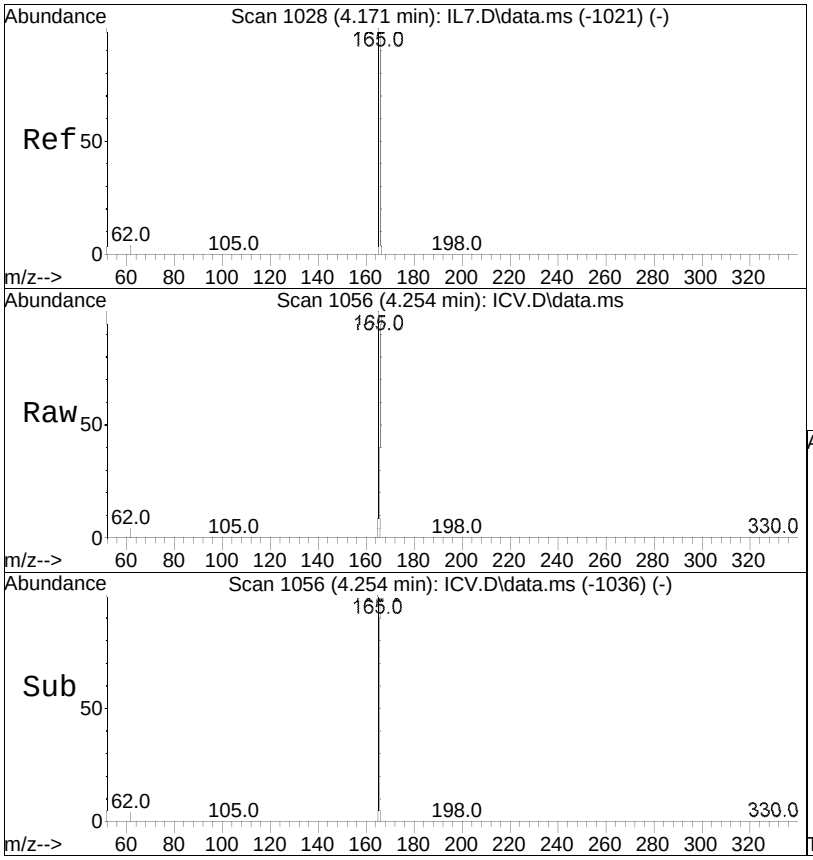


#20
2,4-Dinitrotoluene
Concen: 771.52 ng/ml
RT: 4.049 min Scan# 994
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:165 Resp: 5667

Ion	Ratio	Lower	Upper
165	100		
89	96.4	71.2	106.8
63	82.6	59.4	89.0

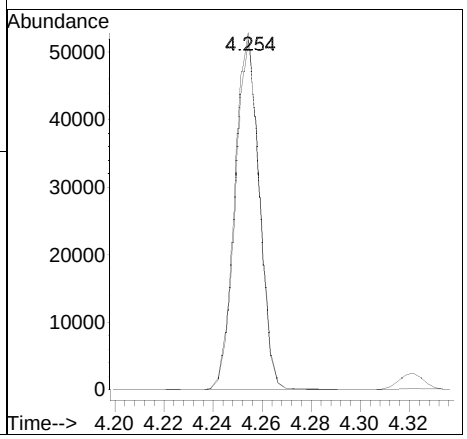


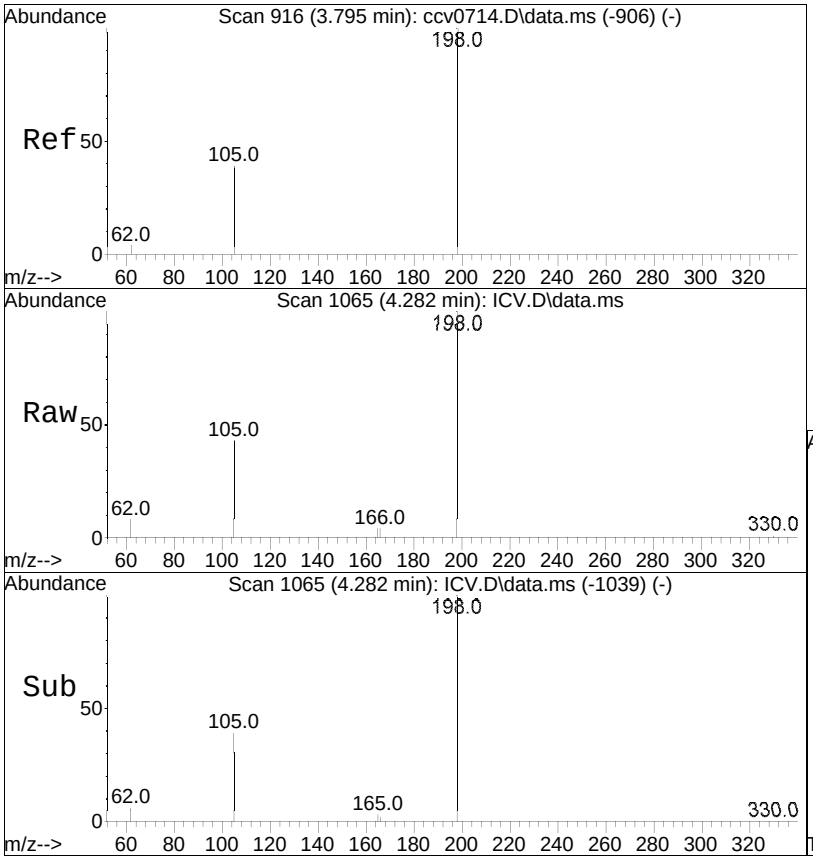


#21
Fluorene
Concen: 1042.37 ng/ml
RT: 4.254 min Scan# 1056
Delta R.T. -0.003 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:166 Resp: 35321

Ion	Ratio	Lower	Upper
166	100		
165	102.8	81.0	121.4

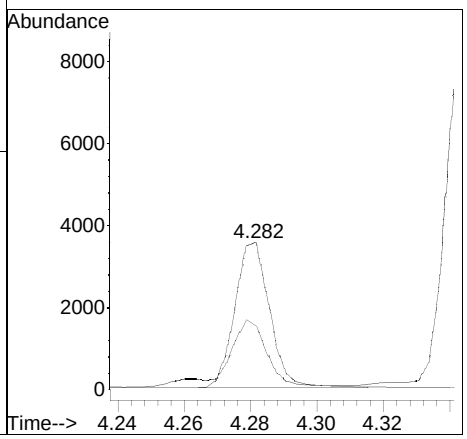


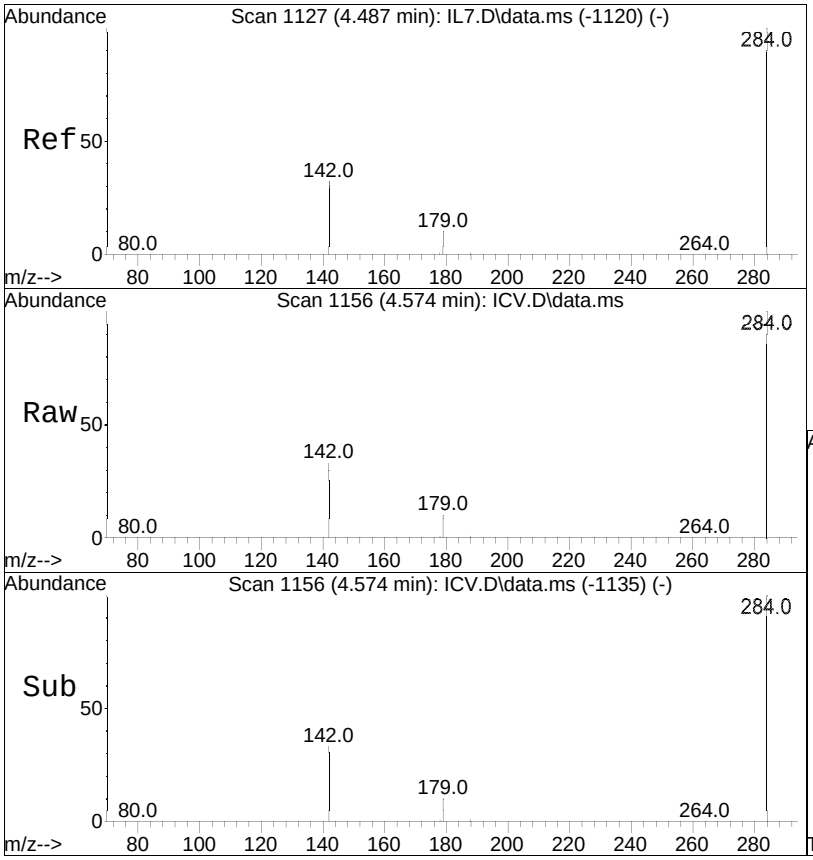


#24
4,6-Dinitro-o-cresol
Concen: 702.11 ng/ml M6
RT: 4.282 min Scan# 1065
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:198 Resp: 2583

Ion	Ratio	Lower	Upper
198	100		
105	50.8	29.6	44.4#

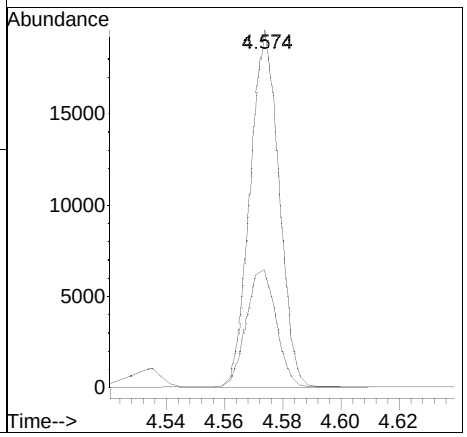


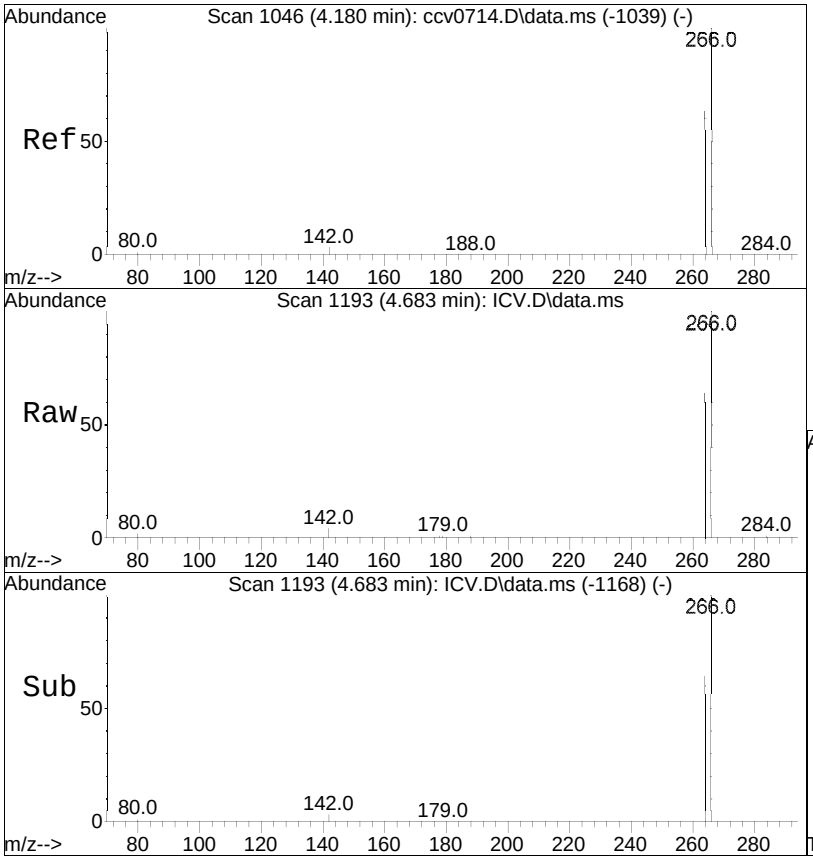


#25
Hexachlorobenzene
Concen: 1034.34 ng/ml M6
RT: 4.574 min Scan# 1156
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:284 Resp: 13334

Ion	Ratio	Lower	Upper
284	100		
142	34.5	27.7	41.5

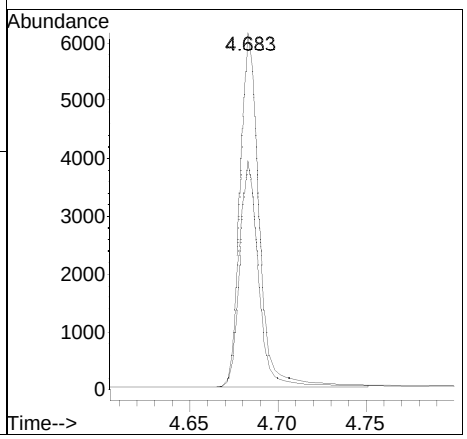


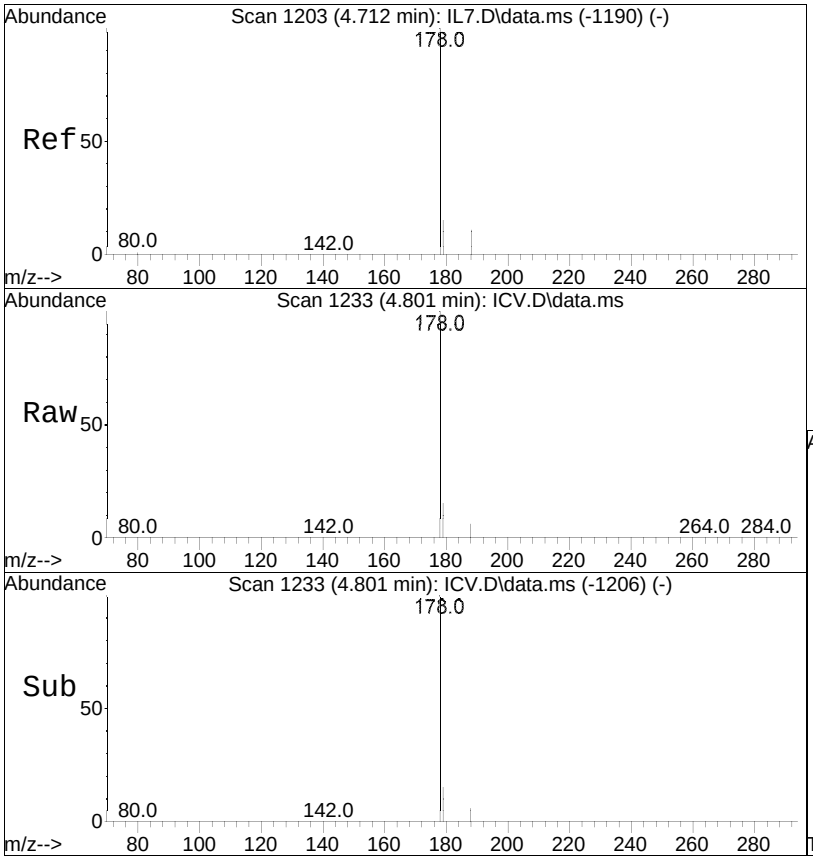


#26
Pentachlorophenol
Concen: 878.31 ng/ml
RT: 4.683 min Scan# 1193
Delta R.T. -0.005 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:266 Resp: 4576

Ion	Ratio	Lower	Upper
266	100		
264	63.4	50.9	76.3

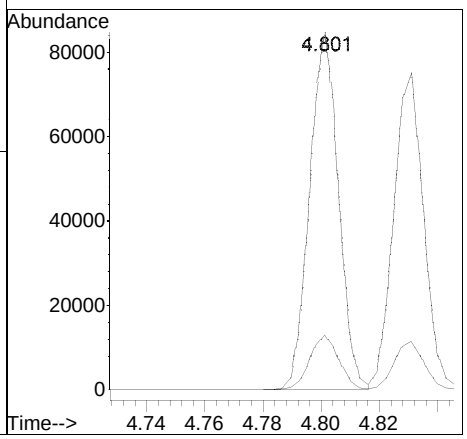


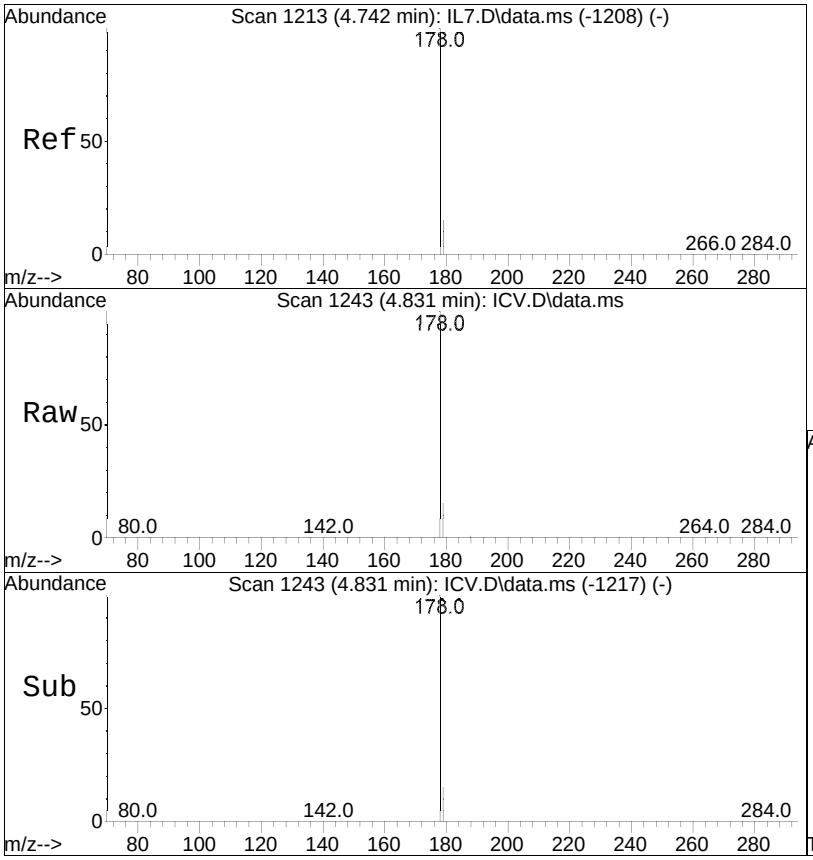


#27
Phenanthrene
Concen: 1041.97 ng/ml
RT: 4.801 min Scan# 1233
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:178 Resp: 58092

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.3	18.5

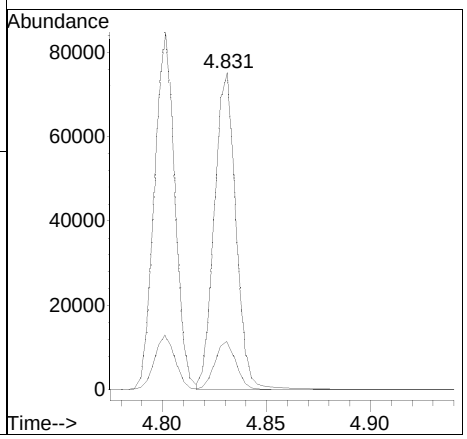


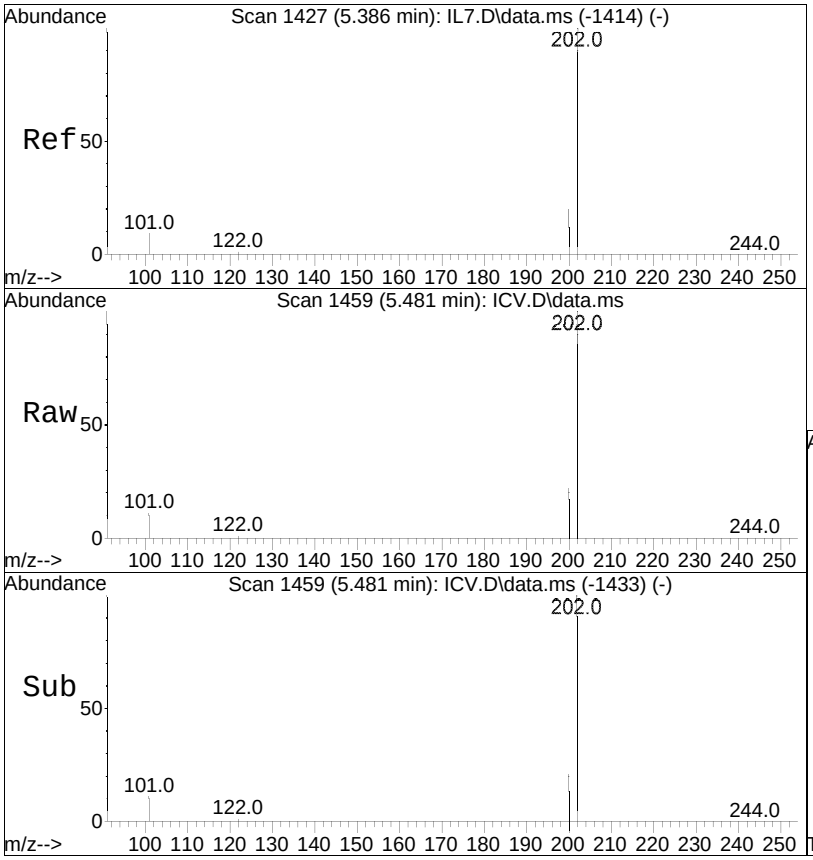


#28
Anthracene
Concen: 1033.84 ng/ml
RT: 4.831 min Scan# 1243
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:178 Resp: 53951

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

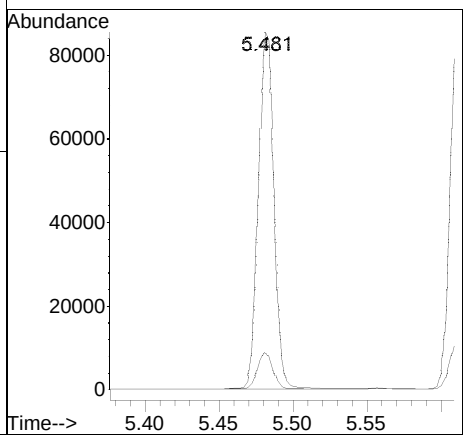


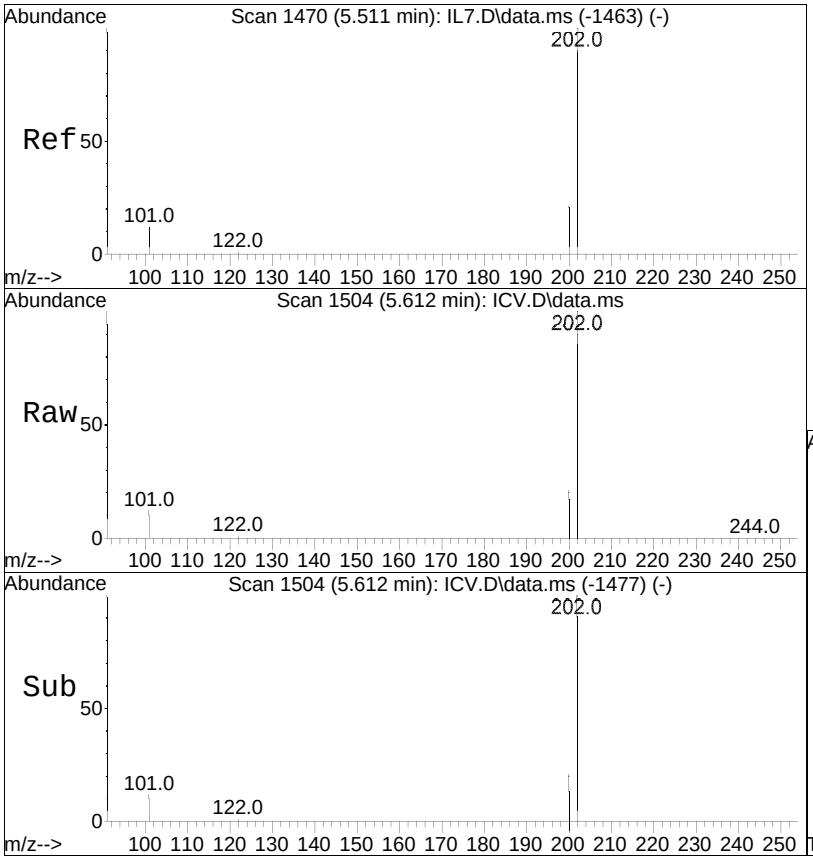


#29
Fluoranthene
Concen: 1029.25 ng/ml
RT: 5.481 min Scan# 1459
Delta R.T. -0.005 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:202 Resp: 63100

Ion	Ratio	Lower	Upper
202	100		
101	10.4	7.8	11.8

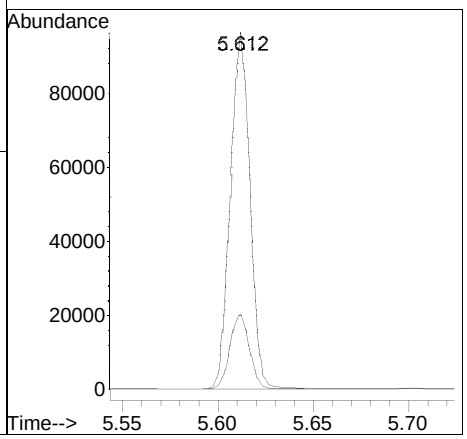


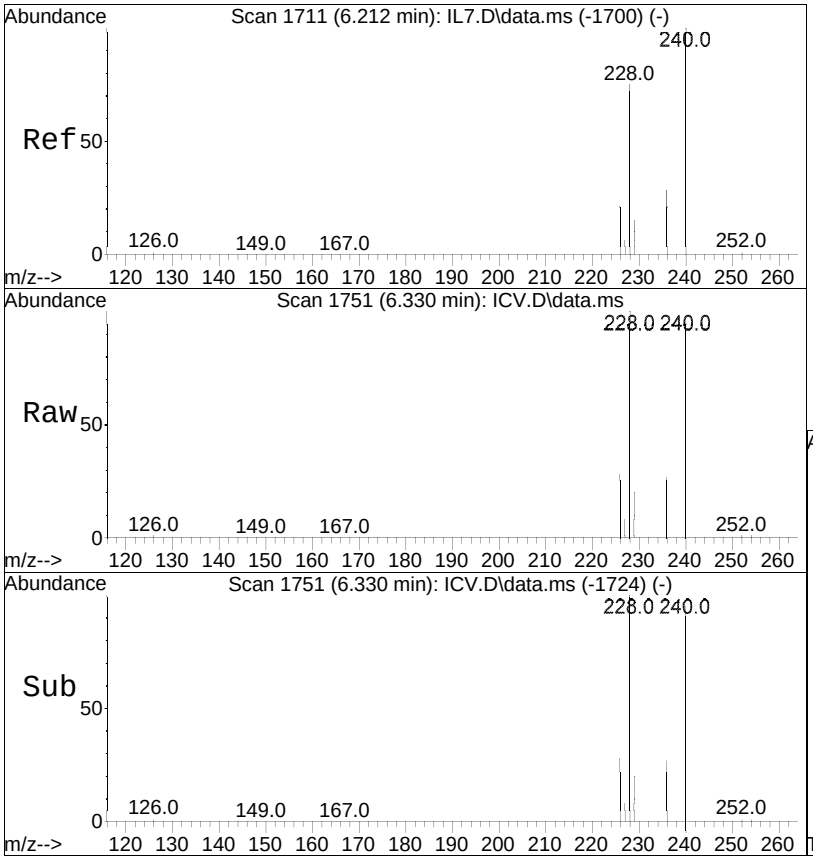


#30
Pyrene
Concen: 1055.79 ng/ml
RT: 5.612 min Scan# 1504
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:202 Resp: 67814

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4

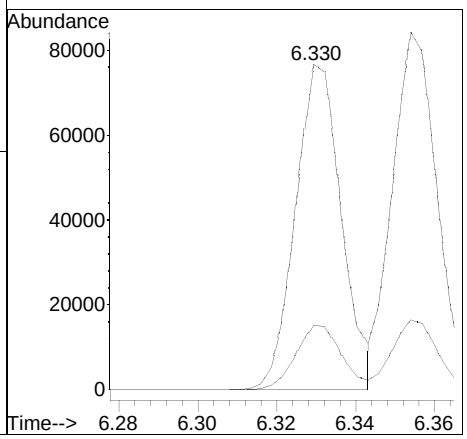


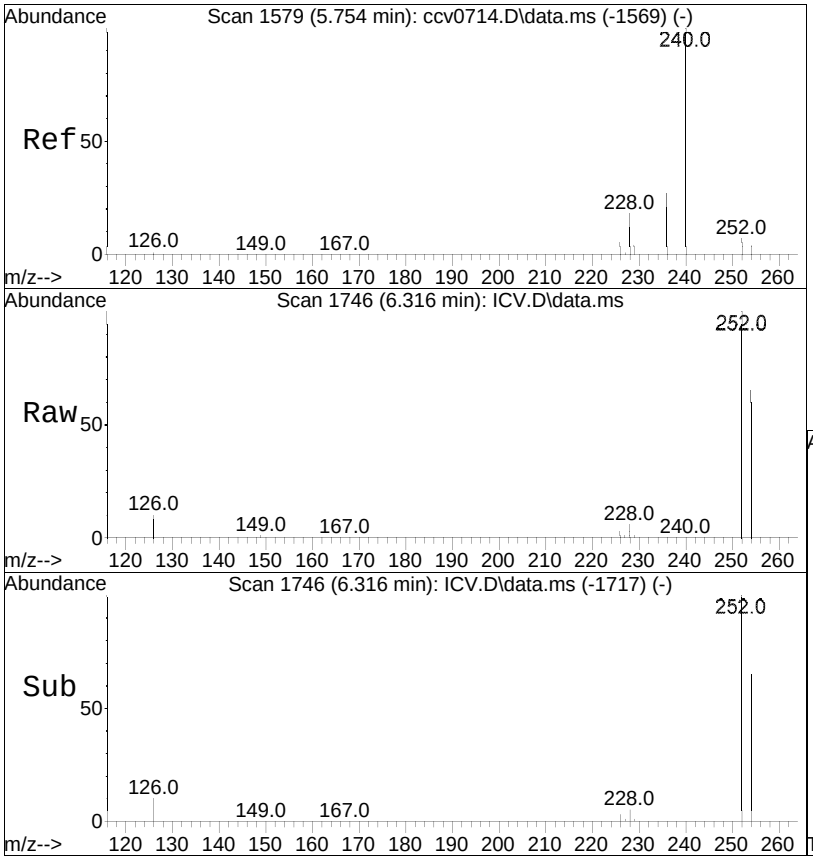


#33
Benzo[a]anthracene
Concen: 951.66 ng/ml
RT: 6.330 min Scan# 1751
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:228 Resp: 62023

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.6	23.4

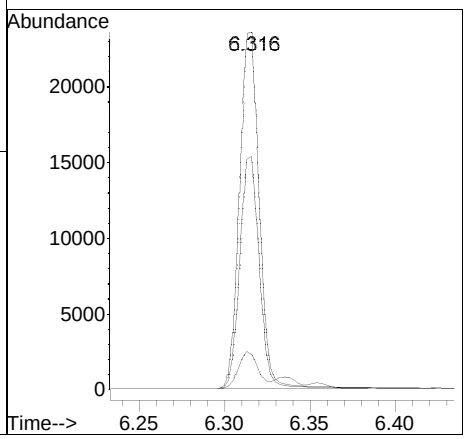


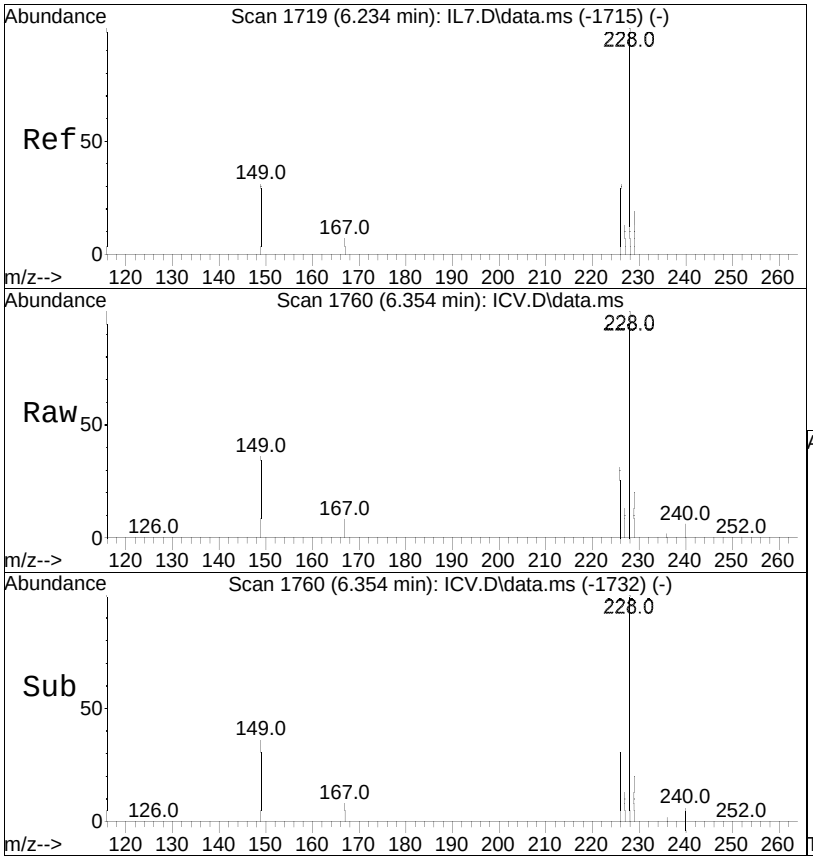


#34
3,3'-Dichlorobenzene
Concen: 845.65 ng/ml
RT: 6.316 min Scan# 1746
Delta R.T. -0.002 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:252 Resp: 18541

Ion	Ratio	Lower	Upper
252	100		
126	10.7	8.4	12.6
254	64.7	51.9	77.9

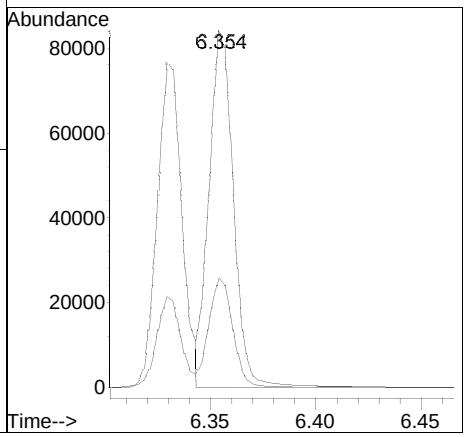


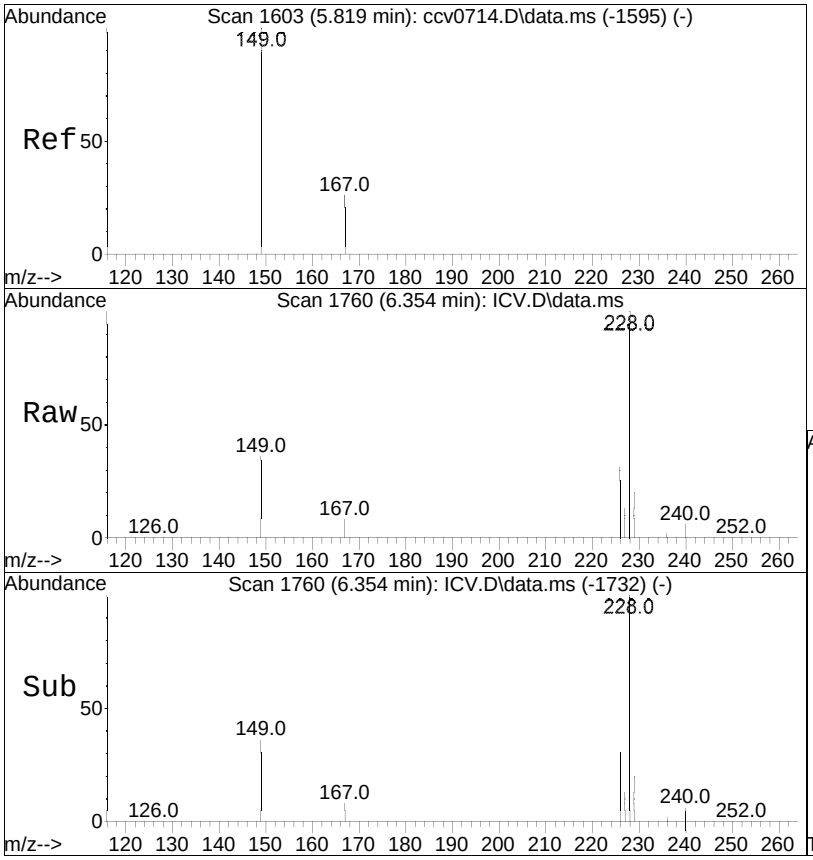


#35
Chrysene
Concen: 1001.68 ng/ml
RT: 6.354 min Scan# 1760
Delta R.T. -0.005 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:228 Resp: 67113

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.2	36.2

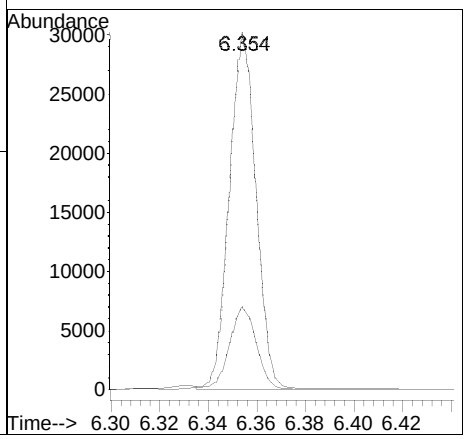


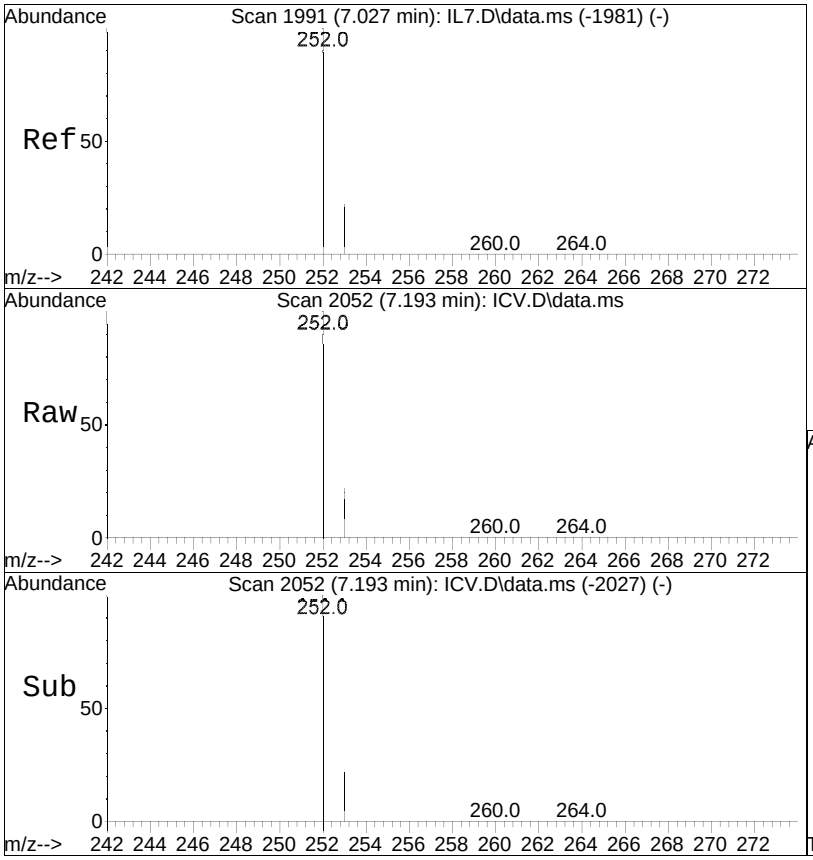


#36
Bis(2-ethylhexyl)phthalate
Concen: 777.61 ng/ml
RT: 6.354 min Scan# 1760
Delta R.T. -0.005 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:149 Resp: 22659

Ion	Ratio	Lower	Upper
149	100		
167	23.6	19.8	29.6

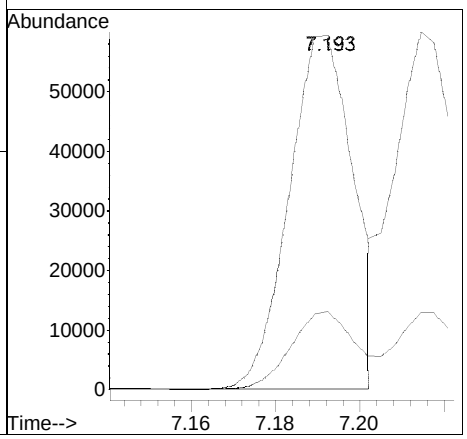


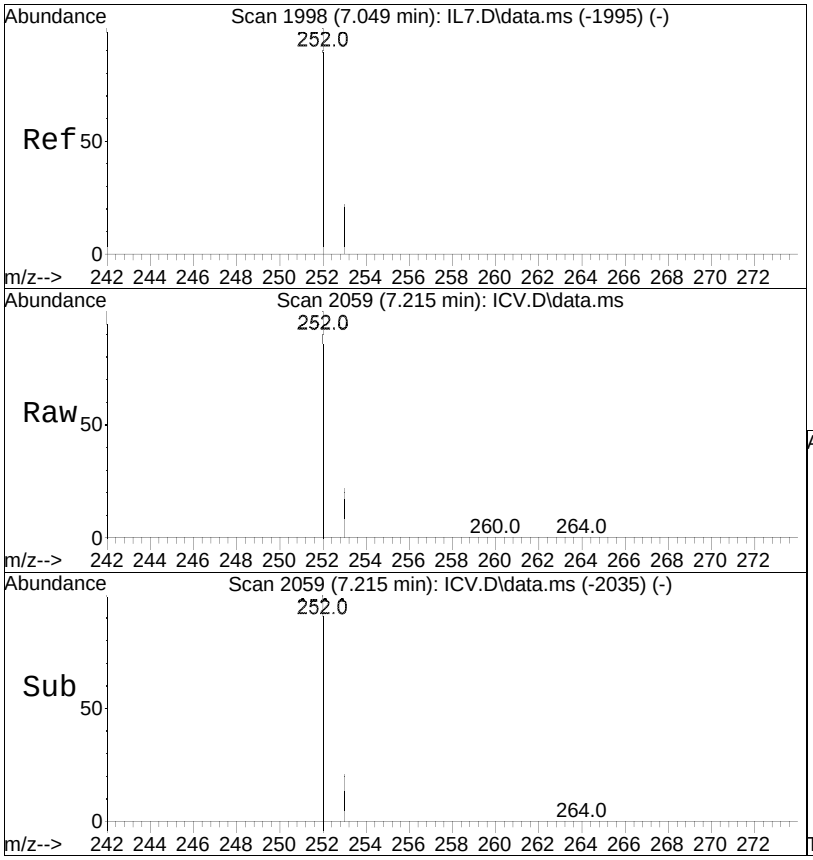


#38
Benzo[b]fluoranthene
Concen: 1018.89 ng/ml
RT: 7.193 min Scan# 2052
Delta R.T. -0.001 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:252 Resp: 63123

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.2	25.8

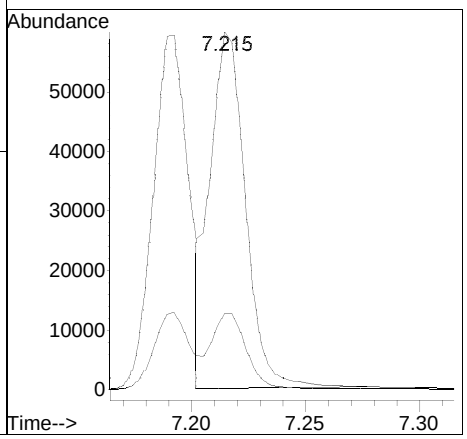


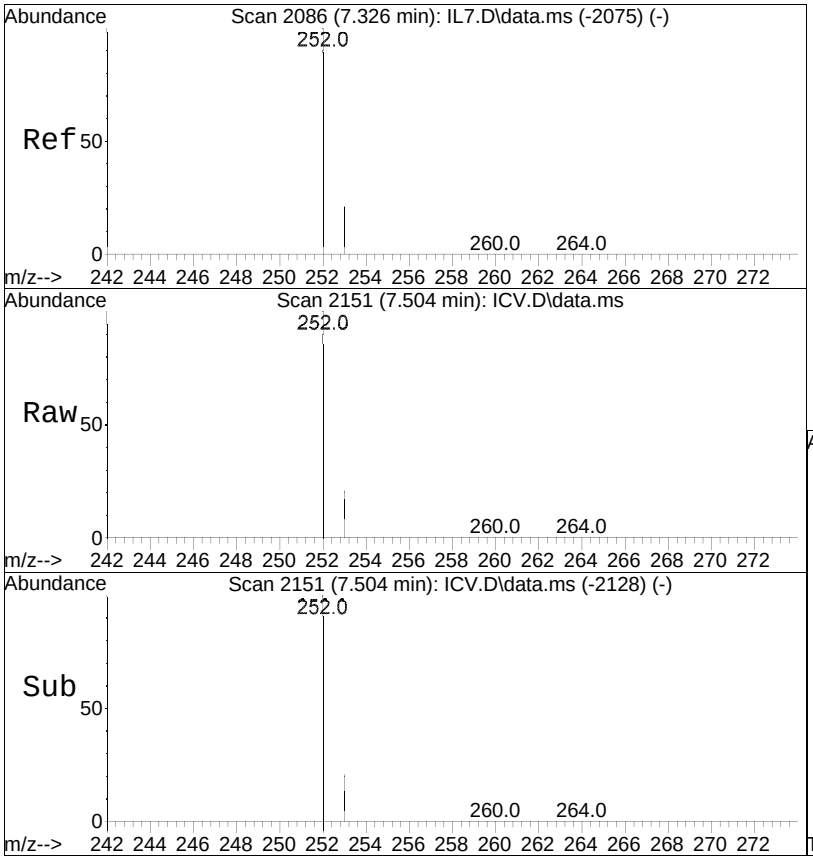


#39
Benzo[k]fluoranthene
Concen: 1049.96 ng/ml
RT: 7.215 min Scan# 2059
Delta R.T. -0.004 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:252 Resp: 64536

Ion	Ratio	Lower	Upper
252	100		
253	20.2	17.5	26.3

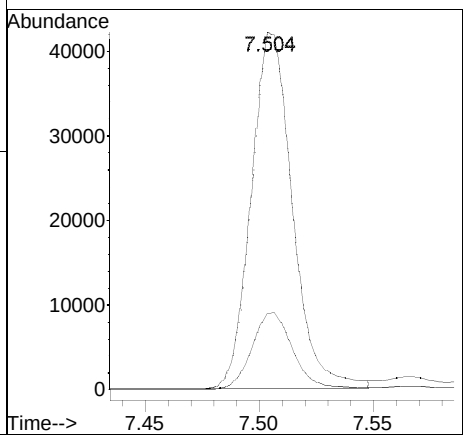


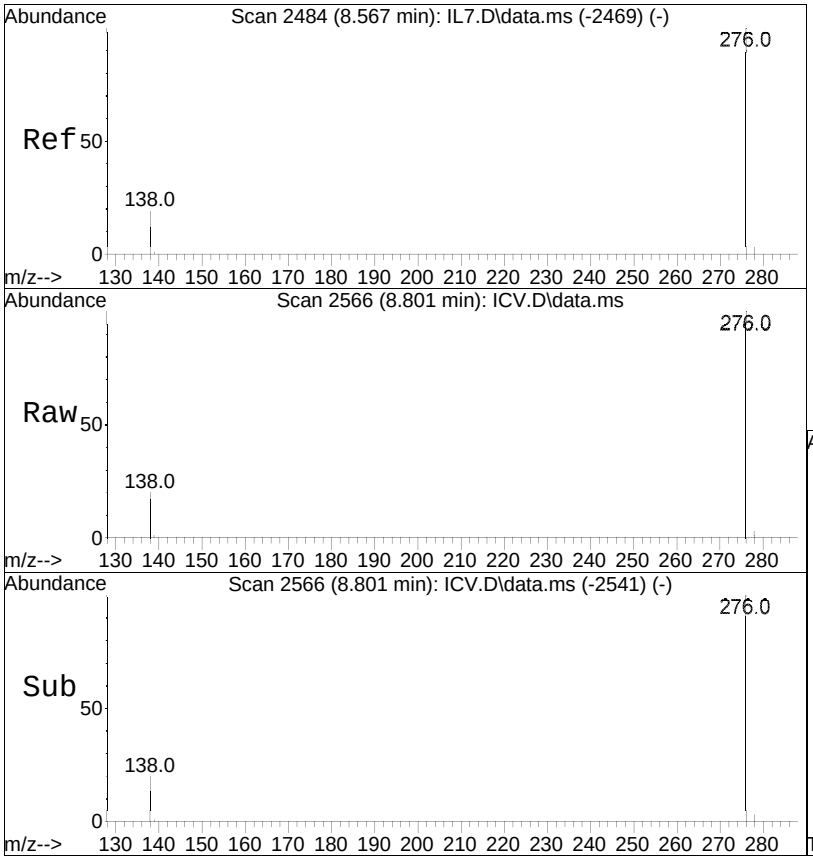


#40
Benzo[a]pyrene
Concen: 968.12 ng/ml
RT: 7.504 min Scan# 2151
Delta R.T. -0.008 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:252 Resp: 52576

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8

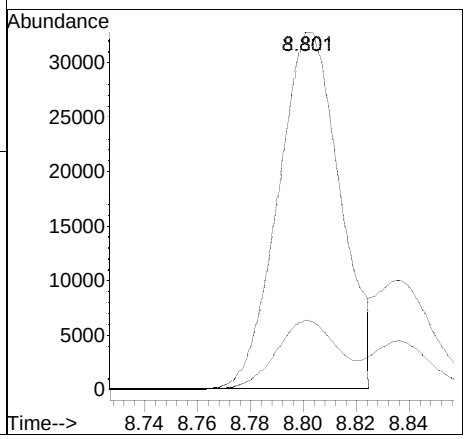


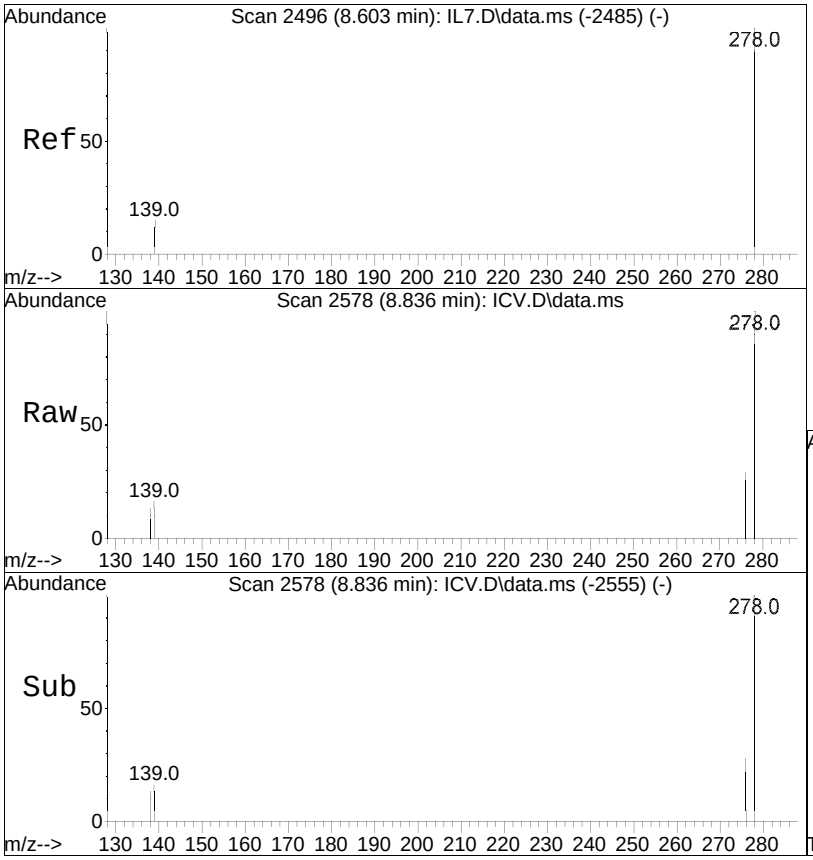


#41
Indeno[1,2,3-cd]pyrene
Concen: 940.69 ng/ml
RT: 8.801 min Scan# 2566
Delta R.T. -0.007 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:276 Resp: 53175

Ion	Ratio	Lower	Upper
276	100		
138	19.8	14.5	21.7

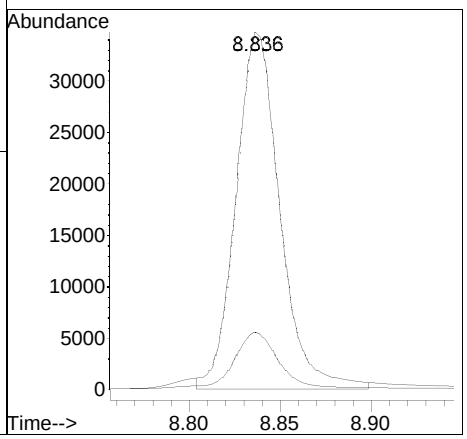


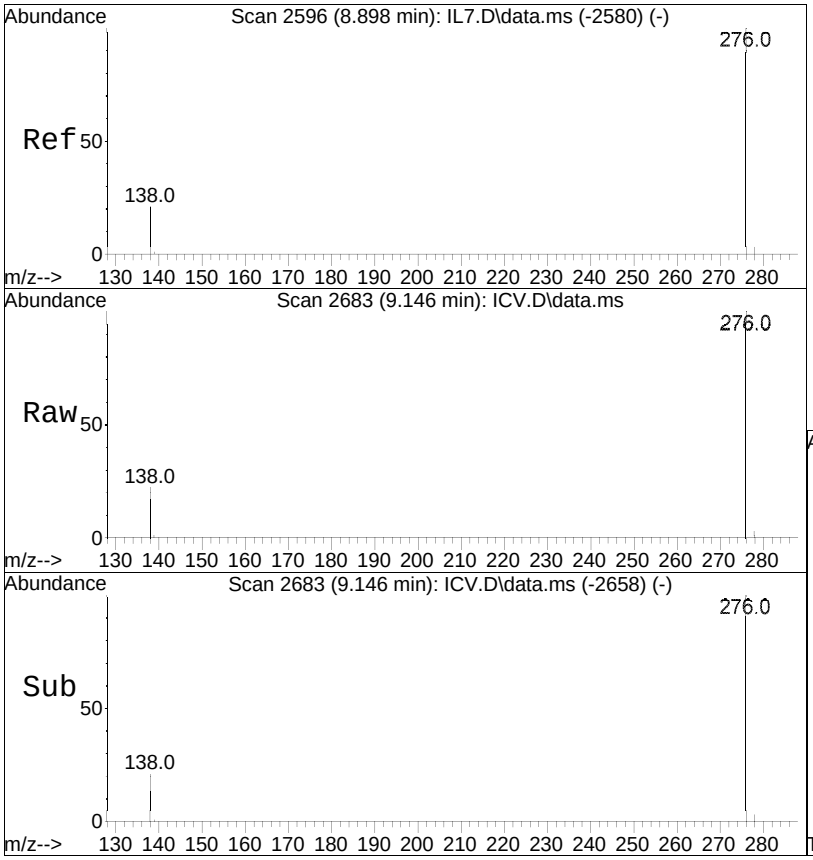


#42
Dibenzo[a,h]anthracene
Concen: 1061.12 ng/ml M6
RT: 8.836 min Scan# 2578
Delta R.T. -0.011 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:278 Resp: 58025

Ion	Ratio	Lower	Upper
278	100		
139	16.4	13.0	19.4

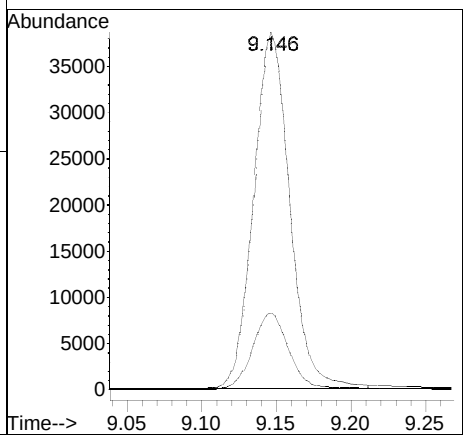




#43
Benzo[g,h,i]perylene
Concen: 1045.84 ng/ml
RT: 9.146 min Scan# 2683
Delta R.T. -0.008 min
Lab File: ICV.D
Acq: 26 Oct 2023 04:04 pm

Tgt Ion:276 Resp: 63938

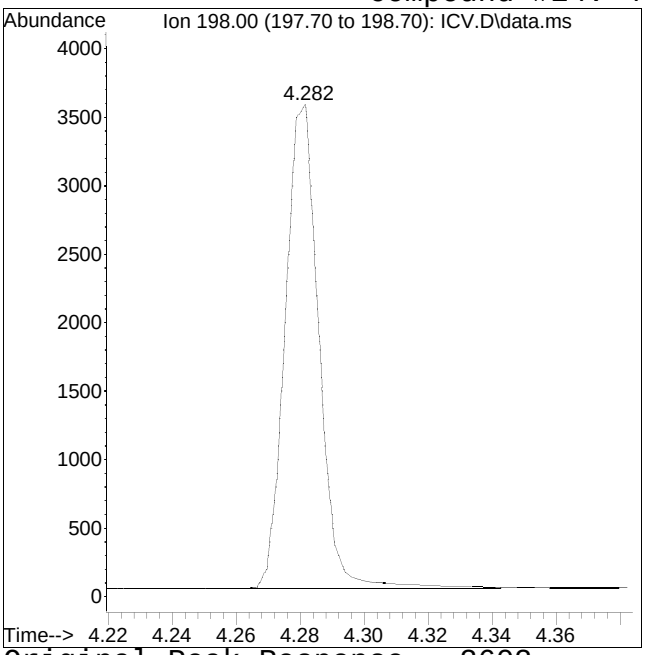
Ion	Ratio	Lower	Upper
276	100		
138	21.5	16.5	24.7



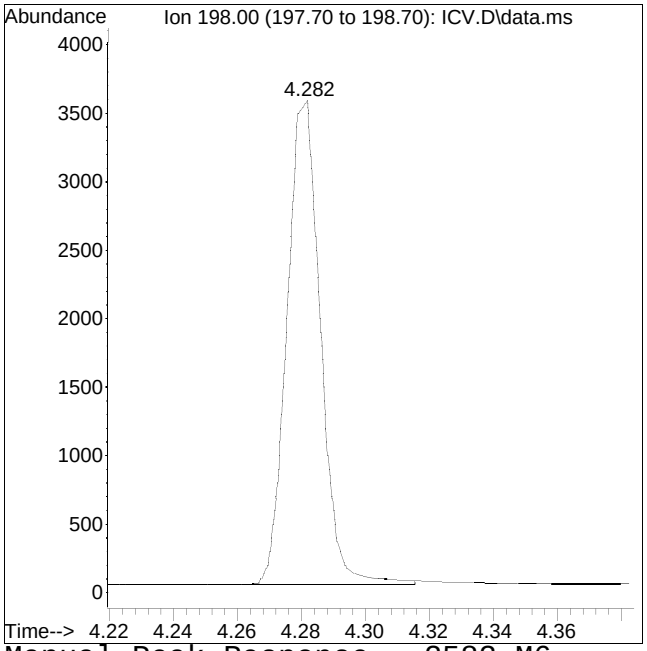
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : ICV.D Operator : SV125:ah
Date Inj'd : 10/26/2023 4:04 pm Instrument : SV125
Sample : CQICV,32,,1.0 #10193 Quant Date : 10/27/2023 10:44 am

Compound #24: 4,6-Dinitro-o-cresol



Original Peak Response = 2602



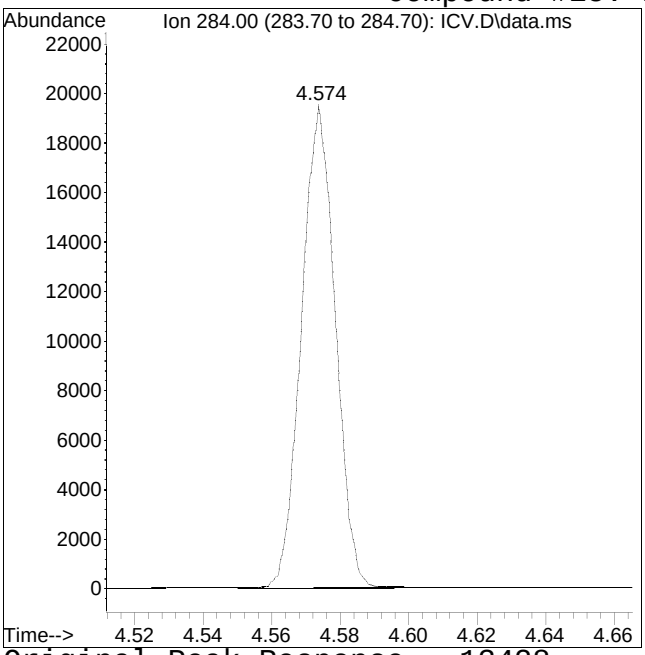
Manual Peak Response = 2583 M6

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

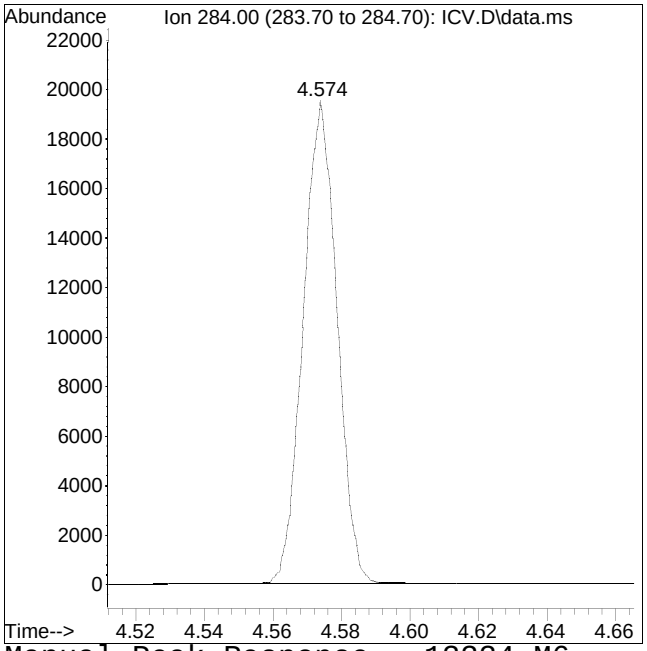
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : ICV.D Operator : SV125:ah
Date Inj'd : 10/26/2023 4:04 pm Instrument : SV125
Sample : CQICV,32,,1.0 #10193 Quant Date : 10/27/2023 10:44 am

Compound #25: Hexachlorobenzene



Original Peak Response = 13428



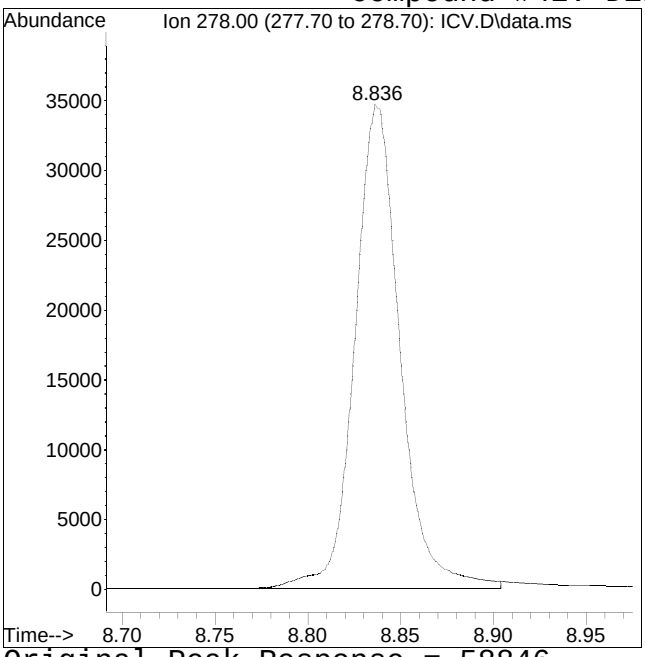
Manual Peak Response = 13334 M6

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

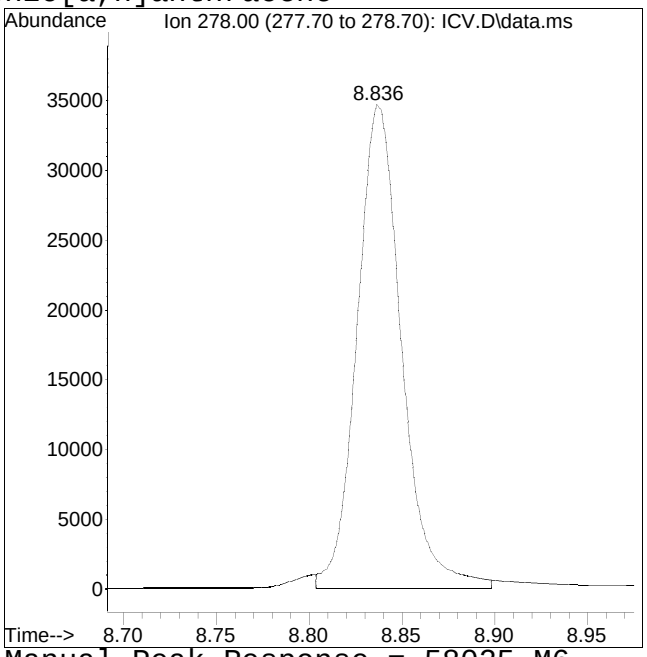
Manual Integration Report

Data Path : I:\8270SIM\SV125\231026aLVQMethod : SIM-LVI_231026_sv125.M
Data File : ICV.D Operator : SV125:ah
Date Inj'd : 10/26/2023 4:04 pm Instrument : SV125
Sample : CQICV,32,,1.0 #10193 Quant Date : 10/27/2023 10:44 am

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 58846



Manual Peak Response = 58025 M6

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

Evaluate Relative Error Report SV125

Method Path : I:\8270SIM\SV125\231026aLVIical\
Method File : SIM-LVI_231026_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Oct 27 10:41:59 2023

		COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
16	T	2,6-Dinitrotoluene	Q	ng/ml	1000.0	830.526	-16.9	100.00	122.194	22.2
20	T	2,4-Dinitrotoluene	Q	ng/ml	1000.0	899.016	-10.1	50.00	61.098	22.2
22	S	2,4,6-Tribromophenol	Q	ng/ml	1000.0	942.424	-5.8	25.00	32.348	29.4
24	T	4,6-Dinitro-o-cresol	Q	ng/ml	1000.0	893.997	-10.6	50.00	63.265	26.5
26	T	Pentachlorophenol	Q	ng/ml	1000.0	1031.148	3.1	25.00	30.499	22.0
33	T	Benzo[a]anthracene	Q	ng/ml	1000.0	955.584	-4.4	10.00	12.927	29.3
36	T	Bis(2-ethylhexyl)phthalate	Q	ng/ml	1000.0	870.095	-13.0	50.00	60.837	21.7

Calibration Correlation Report

		COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
16	T	2,6-Dinitrotoluene	Quadratic	0.998623	0.002642	0.141581	-0.00203962
20	T	2,4-Dinitrotoluene	Quadratic	0.998625	0.030957	0.301661	-0.0020982
22	S	2,4,6-Tribromophenol	Quadratic	0.998992	0.008844	0.199528	-0.000735333
24	T	4,6-Dinitro-o-cresol	Quadratic	0.998454	0.009247	0.0677353	-0.000615341
26	T	Pentachlorophenol	Quadratic	0.999468	0.029277	0.0886125	-0.000391236
33	T	Benzo[a]anthracene	Quadratic	0.999449	0.021502	1.23911	0.00169365
36	T	Bis(2-ethylhexyl)phthalate	Quadratic	0.998342	0.078805	0.561289	-0.00332953

Continuing Calibration

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 12/04/23 09:57		
Lab File ID	: CCV1204	**Init. Calib. Date(s)**	: 08/31/23	09/05/23	
Sample No	: WG1859432-3	**Init. Calib. Times**	: 09:45	09:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	157	0
2-Fluorophenol	1.022	1.015	.05	0.7	20	151	0
Phenol-d6	1.251	1.21	.05	3.3	20	146	0
Bis(2-chloroethyl)ether	1.078	1.046	.05	3	20	145	0
n-nitrosodi-n-propylamine	0.809	0.725	.05	10.4	20	134	0
Hexachloroethane	0.481	0.497	.05	-3.3	20	158	0
Nitrobenzene-d5	1.06	1.109	.05	-4.6	20	153	0
Naphthalene-d8	1	1	.05	0	20	121	0
Naphthalene	0.977	0.936	.05	4.2	20	112	0
Hexachlorobutadiene	0.184	0.31	.05	-68.5*	20	196	0
2-Methylnaphthalene	0.652	0.604	.05	7.4	20	107	0
1-Methylnaphthalene	0.604	0.594	.05	1.7	20	113	0
2-Fluorobiphenyl	0.82	0.809	.05	1.3	20	114	0
2-Chloronaphthalene	0.676	0.714	.05	-5.6	20	121	0
2,6-Dinitrotoluene	0.135	0.143	.05	-5.9	20	135	0
Acenaphthylene	1.077	1.011	.05	6.1	20	107	0
Acenaphthene-d10	1	1	.05	0	20	119	0
Acenaphthene	1.267	1.136	.05	10.3	20	102	0
2,4-Dinitrotoluene	0.304	0.339	.05	-11.5	20	137	0
Fluorene	1.383	1.279	.05	7.5	20	104	0
2,4,6-Tribromophenol	0.168	0.307	.05	-82.7*	20	206	0
Phenanthrene-d10	1	1	.05	0	20	110	0
4,6-Dinitro-o-cresol	1000	1207.649	.05	-20.8*	20	158	0
Hexachlorobenzene	0.215	0.288	.05	-34*	20	142	0
Pentachlorophenol	1000	967.222	.05	3.3	20	122	0
Phenanthrene	0.997	0.894	.05	10.3	20	96	0
Anthracene	0.971	0.923	.05	4.9	20	100	0
Fluoranthene	1.158	1.096	.05	5.4	20	101	0
Pyrene	1.199	1.175	.05	2	20	103	0
4-Terphenyl-d14	0.845	0.651	.05	23*	20	81	0
Chrysene-d12	1	1	.05	0	20	114	0
Benzo[a]anthracene	1000	907.005	.05	9.3	20	102	0
3,3'-Dichlorobenzidine	0.499	0.506	.05	-1.4	20	119	0
Chrysene	1.234	1.161	.05	5.9	20	104	0
Bis(2-ethylhexyl)phthalate	0.779	0.655	.05	15.9	20	103	0
Perylene-d12	1	1	.05	0	20	125	0
Benzo[b]fluoranthene	1.127	1.08	.05	4.2	20	118	0
Benzo[k]fluoranthene	1.043	0.944	.05	9.5	20	102	0
Benzo[a]pyrene	0.968	0.92	.05	5	20	111	0
Indeno[1,2,3-cd]pyrene	0.969	0.965	.05	0.4	20	124	0
Dibenzo[a,h]anthracene	0.932	0.93	.05	0.2	20	115	0
Benzo[g,h,i]perylene	0.992	1.012	.05	-2	20	125	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV125	**Calibration Date**	: 12/06/23 07:20		
Lab File ID	: CCV1206	**Init. Calib. Date(s)**	: 10/26/23	10/26/23	
Sample No	: WG1860343-3	**Init. Calib. Times**	: 13:22	15:47	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	71	0
2-Fluorophenol	1.015	1.069	.05	-5.3	20	73	0
Phenol-d6	1.174	1.232	.05	-4.9	20	73	0
Bis(2-chloroethyl)ether	1.058	1.011	.05	4.4	20	66	0
n-nitrosodi-n-propylamine	0.64	0.637	.05	0.5	20	71	0
Hexachloroethane	0.48	0.422	.05	12.1	20	63	0
Nitrobenzene-d5	0.912	0.963	.05	-5.6	20	72	0
Naphthalene-d8	1	1	.05	0	20	73	0
Naphthalene	1.004	0.909	.05	9.5	20	65	0
Hexachlorobutadiene	0.181	0.147	.05	18.8	20	59	0
2-Methylnaphthalene	0.645	0.568	.05	11.9	20	63	0
1-Methylnaphthalene	0.601	0.552	.05	8.2	20	66	0
2-Fluorobiphenyl	0.766	0.652	.05	14.9	20	60	0
2-Chloronaphthalene	0.66	0.568	.05	13.9	20	62	0
2,6-Dinitrotoluene	1000	966.584	.05	3.3	20	86	0
Acenaphthylene	0.971	0.904	.05	6.9	20	66	0
Acenaphthene-d10	1	1	.05	0	20	74	0
Acenaphthene	1.298	1.08	.05	16.8	20	62	0
2,4-Dinitrotoluene	1000	1040.127	.05	-4	20	87	0
Fluorene	1.369	1.206	.05	11.9	20	64	0
2,4,6-Tribromophenol	1000	924.602	.05	7.5	20	73	0
Phenanthrene-d10	1	1	.05	0	20	70	0
4,6-Dinitro-o-cresol	1000	1090.185	.05	-9	20	86	0
Hexachlorobenzene	0.231	0.191	.05	17.3	20	57	0
Pentachlorophenol	1000	834.933	.05	16.5	20	55	0
Phenanthrene	0.998	0.899	.05	9.9	20	63	0
Anthracene	0.934	0.867	.05	7.2	20	64	0
Fluoranthene	1.097	1.042	.05	5	20	66	0
Pyrene	1.15	1.109	.05	3.6	20	66	0
4-Terphenyl-d14	0.765	0.675	.05	11.8	20	59	0
Chrysene-d12	1	1	.05	0	20	76	0
Benzo[a]anthracene	1000	917.559	.05	8.2	20	73	0
3,3'-Dichlorobenzene	0.421	0.419	.05	0.5	20	80	0
Chrysene	1.286	1.073	.05	16.6	20	64	0
Bis(2-ethylhexyl)phthalate	1000	1046.316	.05	-4.6	20	92	0
Perylene-d12	1	1	.05	0	20	84	0
Benzo[b]fluoranthene	1.078	1.105	.05	-2.5	20	85	0
Benzo[k]fluoranthene	1.069	0.921	.05	13.8	20	67	0
Benzo[a]pyrene	0.945	0.886	.05	6.2	20	76	0
Indeno[1,2,3-cd]pyrene	0.984	1.017	.05	-3.4	20	86	0
Dibenzo[a,h]anthracene	0.951	0.998	.05	-4.9	20	83	0
Benzo[g,h,i]perylene	1.064	1.052	.05	1.1	20	80	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV125	**Calibration Date**	: 12/07/23 11:43		
Lab File ID	: CCV1207B	**Init. Calib. Date(s)**	: 10/26/23	10/26/23	
Sample No	: WG1861049-3	**Init. Calib. Times**	: 13:22	15:47	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	68	0
2-Fluorophenol	1.015	1.062	.05	-4.6	20	68	0
Phenol-d6	1.174	1.237	.05	-5.4	20	70	0
Bis(2-chloroethyl)ether	1.058	1.01	.05	4.5	20	63	0
n-nitrosodi-n-propylamine	0.64	0.669	.05	-4.5	20	70	0
Hexachloroethane	0.48	0.436	.05	9.2	20	62	0
Nitrobenzene-d5	0.912	1.011	.05	-10.9	20	72	0
Naphthalene-d8	1	1	.05	0	20	70	0
Naphthalene	1.004	0.916	.05	8.8	20	63	0
Hexachlorobutadiene	0.181	0.147	.05	18.8	20	57	0
2-Methylnaphthalene	0.645	0.577	.05	10.5	20	62	0
1-Methylnaphthalene	0.601	0.565	.05	6	20	65	0
2-Fluorobiphenyl	0.766	0.663	.05	13.4	20	59	0
2-Chloronaphthalene	0.66	0.577	.05	12.6	20	61	0
2,6-Dinitrotoluene	1000	1010.471	.05	-1	20	86	0
Acenaphthylene	0.971	0.942	.05	3	20	66	0
Acenaphthene-d10	1	1	.05	0	20	71	0
Acenaphthene	1.298	1.099	.05	15.3	20	61	0
2,4-Dinitrotoluene	1000	1066.493	.05	-6.6	20	86	0
Fluorene	1.369	1.211	.05	11.5	20	62	0
2,4,6-Tribromophenol	1000	906.073	.05	9.4	20	69	0
Phenanthrene-d10	1	1	.05	0	20	65	0
4,6-Dinitro-o-cresol	1000	1088.109	.05	-8.8	20	80	0
Hexachlorobenzene	0.231	0.181	.05	21.6*	20	51	0
Pentachlorophenol	1000	1116.722	.05	-11.7	20	71	0
Phenanthrene	0.998	0.904	.05	9.4	20	59	0
Anthracene	0.934	0.88	.05	5.8	20	60	0
Fluoranthene	1.097	1.003	.05	8.6	20	59	0
Pyrene	1.15	1.048	.05	8.9	20	58	0
4-Terphenyl-d14	0.765	0.611	.05	20.1*	20	50	0
Chrysene-d12	1	1	.05	0	20	60	0
Benzo[a]anthracene	1000	919.357	.05	8.1	20	58	0
3,3'-Dichlorobenzene	0.421	0.444	.05	-5.5	20	68	0
Chrysene	1.286	1.116	.05	13.2	20	53	0
Bis(2-ethylhexyl)phthalate	1000	1275.556	.05	-27.6*	20	91	0
Perylene-d12	1	1	.05	0	20	62	0
Benzo[b]fluoranthene	1.078	1.106	.05	-2.6	20	63	0
Benzo[k]fluoranthene	1.069	0.949	.05	11.2	20	51	0
Benzo[a]pyrene	0.945	0.9	.05	4.8	20	57	0
Indeno[1,2,3-cd]pyrene	0.984	0.977	.05	0.7	20	61	0
Dibenzo[a,h]anthracene	0.951	0.951	.05	0	20	59	0
Benzo[g,h,i]perylene	1.064	0.98	.05	7.9	20	55	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\231204\
Data File : ccv1204.D
Acq On : 04 Dec 2023 09:57 am
Operator : SV128:ah
Sample : WG1859432-3,32,,ICV 10193 (1129)
Misc : WG1859432,,ical20340
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 04 13:25:25 2023
Quant Method : I:\8270SIM\SV128\231204\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 11:03:53 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	157	0.00
2	s	2-Fluorophenol	1.022	1.015	0.7	151	0.00
3	s	Phenol-d6	1.251	1.210	3.3	146	0.00
4	T	Bis(2-chloroethyl)ether	1.078	1.046	3.0	145	0.00
5	T	n-nitrosodi-n-propylamine	0.809	0.725	10.4	134	0.00
6	t	Hexachloroethane	0.481	0.497	-3.3	158	0.00
7	s	Nitrobenzene-d5	1.060	1.109	-4.6	153	0.00
8	i	Naphthalene-d8	1.000	1.000	0.0	121	0.00
9	t	Naphthalene	0.977	0.936	4.2	112	0.00
10	t	Hexachlorobutadiene	0.184	0.310	-68.5#	196	0.00
11	t	2-Methylnaphthalene	0.652	0.604	7.4	107	0.00
12	t	1-Methylnaphthalene	0.604	0.594	1.7	113	0.00
13	s	2-Fluorobiphenyl	0.820	0.809	1.3	114	0.00
14	t	2-Chloronaphthalene	0.676	0.714	-5.6	121	0.00
15	t	2,6-Dinitrotoluene	0.135	0.143	-5.9	135	0.00
16	t	Acenaphthylene	1.077	1.011	6.1	107	0.00
17	i	Acenaphthene-d10	1.000	1.000	0.0	119	0.00
18	t	Acenaphthene	1.267	1.136	10.3	102	0.00
19	t	2,4-Dinitrotoluene	0.304	0.339	-11.5	137	0.00
20	t	Fluorene	1.383	1.279	7.5	104	0.00
21	s	2,4,6-Tribromophenol	0.168	0.307	-82.7#	206#	0.00
22	i	Phenanthrene-d10	1.000	1.000	0.0	110	0.00
23	T	4,6-Dinitro-o-cresol	*1000.000	1207.649	-20.8#	158	0.00
24	t	Hexachlorobenzene	0.215	0.288	-34.0#	142	0.00
25	t	Pentachlorophenol	*1000.000	967.222	3.3	122	0.00
26	t	Phenanthrene	0.997	0.894	10.3	96	0.00
27	t	Anthracene	0.971	0.923	4.9	100	0.00
28	t	Fluoranthene	1.158	1.096	5.4	101	0.00
29	t	Pyrene	1.199	1.175	2.0	103	0.00
30	s	4-Terphenyl-d14	0.845	0.651	23.0#	81	0.00
31	i	Chrysene-d12	1.000	1.000	0.0	114	0.00
32	t	Benzo[a]anthracene	*1000.000	907.005	9.3	102	0.00
33	t	3,3'-Dichlorobenzidine	0.499	0.506	-1.4	119	0.00
34	t	Chrysene	1.234	1.161	5.9	104	0.00
35	T	Bis(2-ethylhexyl)phthalate	0.779	0.655	15.9	103	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV128\231204\
Data File : ccv1204.D
Acq On : 04 Dec 2023 09:57 am
Operator : SV128:ah
Sample : WG1859432-3,32,,ICV 10193 (1129)
Misc : WG1859432,,ical20340
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 04 13:25:25 2023
Quant Method : I:\8270SIM\SV128\231204\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 11:03:53 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	i	Perylene-d12	1.000	1.000	0.0	125	0.00
37	t	Benzo[b]fluoranthene	1.127	1.080	4.2	118	0.00
38	t	Benzo[k]fluoranthene	1.043	0.944	9.5	102	0.00
39	t	Benzo[a]pyrene	0.968	0.920	5.0	111	0.00
40	t	Indeno[1,2,3-cd]pyrene	0.969	0.965	0.4	124	0.00
41	t	Dibenzo[a,h]anthracene	0.932	0.930	0.2	115	0.00
42	t	Benzo[g,h,i]perylene	0.992	1.012	-2.0	125	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231204\
Data File : ccv1204.D
Acq On : 04 Dec 2023 09:57 am
Operator : SV128:ah
Sample : WG1859432-3,32,,ICV 10193 (1129)
Misc : WG1859432,,ical20340
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 04 13:25:25 2023
Quant Method : I:\8270SIM\SV128\231204\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 11:03:53 2023
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.081	152	3594	4000.000	ng/ml	0.00
8) Naphthalene-d8	2.741	136	10889	4000.000	ng/ml	0.00
17) Acenaphthene-d10	3.720	164	6309	4000.000	ng/ml	0.00
22) Phenanthrene-d10	4.564	188	13841	4000.000	ng/ml	0.00
31) Chrysene-d12	6.101	240	13647	4000.000	ng/ml	0.00
36) Perylene-d12	7.228	264	16742	4000.000	ng/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	1.485	112	912	993.031	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 19.86%			
3) Phenol-d6	1.898	99	1087	967.232	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 19.34%			
7) Nitrobenzene-d5	2.363	82	996	1045.582	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 41.82%			
13) 2-Fluorobiphenyl	3.345	172	2203	986.449	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 39.46%			
21) 2,4,6-Tribromophenol	4.169	330	485	1830.827	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 36.62%			
30) 4-Terphenyl-d14	5.491	244	2254	770.603	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 30.82%			
Target Compounds						Qvalue
4) Bis(2-chloroethyl)ether	1.947	93	940	970.674	ng/ml	99
5) n-nitrosodi-n-propylamine	2.283	70	651	896.120	ng/ml#	87
6) Hexachloroethane	2.338	117	447	1034.585	ng/ml	81
9) Naphthalene	2.754	128	2547	957.339	ng/ml#	100
10) Hexachlorobutadiene	2.830	225	845	1689.088	ng/ml	97
11) 2-Methylnaphthalene	3.137	142	1643	925.193	ng/ml	98
12) 1-Methylnaphthalene	3.190	142	1618	983.420	ng/ml	100
14) 2-Chloronaphthalene	3.405	162	1945	1056.476	ng/ml	99
15) 2,6-Dinitrotoluene	3.604	165	390M6	1060.705	ng/ml	
16) Acenaphthylene	3.638	152	2752	938.652	ng/ml	99
18) Acenaphthene	3.739	153	1791M6	895.934	ng/ml	
19) 2,4-Dinitrotoluene	3.833	165	534	1114.256	ng/ml	97
20) Fluorene	4.029	166	2017	924.657	ng/ml	98
23) 4,6-Dinitro-o-cresol	4.063	198	292	1207.649	ng/ml	95
24) Hexachlorobenzene	4.348	284	996M6	1340.004	ng/ml	
25) Pentachlorophenol	4.463	266	451	967.222	ng/ml	97
26) Phenanthrene	4.576	178	3092M6	896.030	ng/ml	
27) Anthracene	4.605	178	3194	951.092	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231204\
Data File : ccv1204.D
Acq On : 04 Dec 2023 09:57 am
Operator : SV128:ah
Sample : WG1859432-3,32,,ICV 10193 (1129)
Misc : WG1859432,,ical20340
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 04 13:25:25 2023
Quant Method : I:\8270SIM\SV128\231204\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 11:03:53 2023
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Fluoranthene	5.261	202	3793M6	946.209	ng/ml	
29) Pyrene	5.389	202	4065	979.638	ng/ml	97
32) Benzo[a]anthracene	6.093	228	4098	907.005	ng/ml	100
33) 3,3'-Dichlorobenzidine	6.090	252	1728	1015.301	ng/ml#	97
34) Chrysene	6.114	228	3961	940.795	ng/ml	100
35) Bis(2-ethylhexyl)phtha...	6.142	149	2234	840.586	ng/ml	96
37) Benzo[b]fluoranthene	6.882	252	4521M7	958.428	ng/ml	
38) Benzo[k]fluoranthene	6.904	252	3951	905.067	ng/ml	95
39) Benzo[a]pyrene	7.168	252	3851	950.574	ng/ml	100
40) Indeno[1,2,3-cd]pyrene	8.384	276	4041	996.713	ng/ml	94
41) Dibenzo[a,h]anthracene	8.422	278	3893	997.586	ng/ml	98
42) Benzo[g,h,i]perylene	8.703	276	4236M6	1020.159	ng/ml	

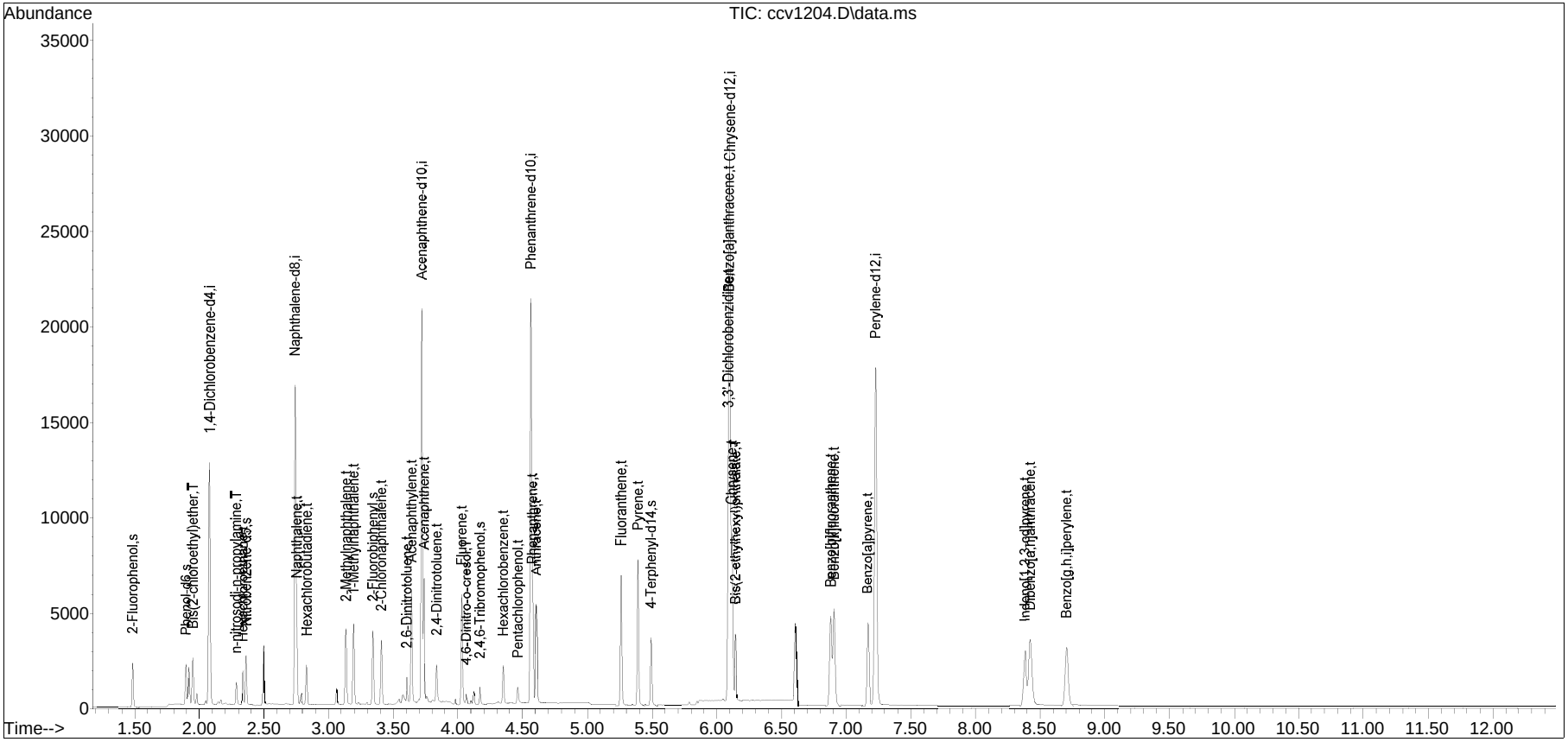
(#) = qualifier out of range (m) = manual integration (+) = signals summed

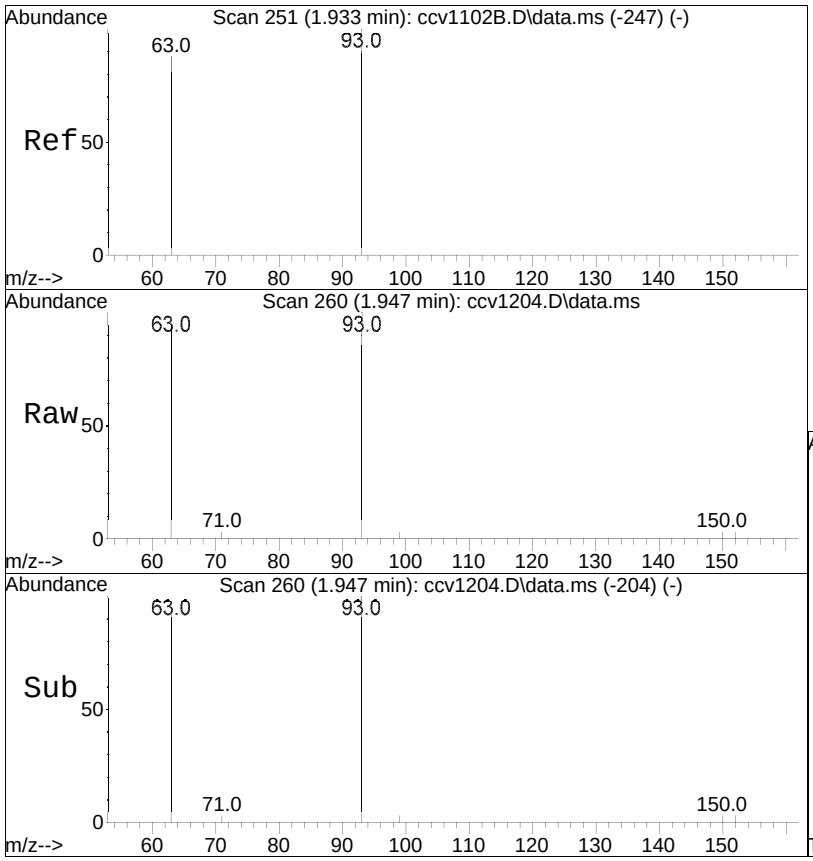
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231204\
Data File : ccv1204.D
Acq On : 04 Dec 2023 09:57 am
Operator : SV128:ah
Sample : WG1859432-3,32,,ICV 10193 (1129)
Misc : WG1859432,,ical20340
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 04 13:25:25 2023
Quant Method : I:\8270SIM\SV128\231204\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 11:03:53 2023
Response via : Initial Calibration

Sub List : Default - All compounds listed

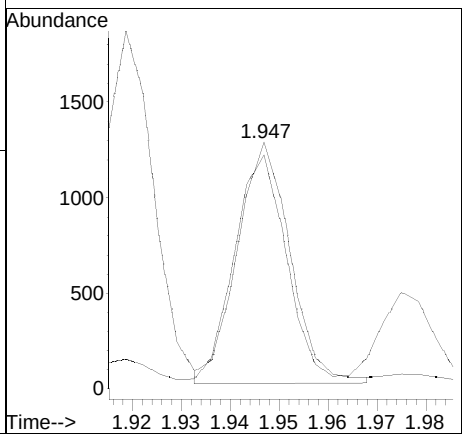


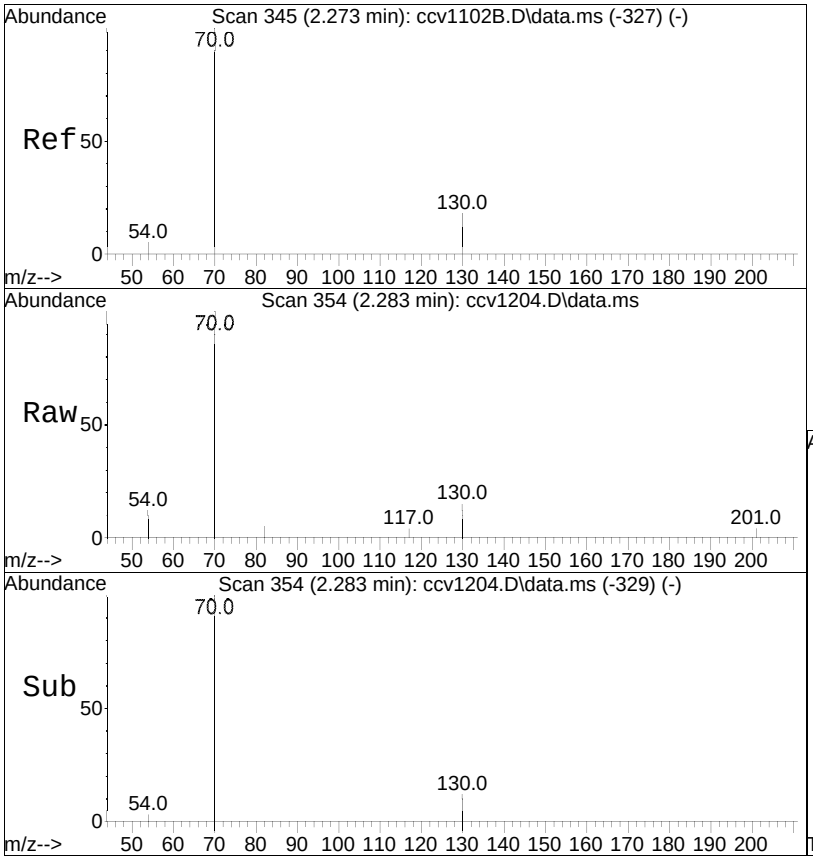


#4
Bis(2-chloroethyl)ether
Concen: 970.67 ng/ml
RT: 1.947 min Scan# 260
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion: 93 Resp: 940

Ion	Ratio	Lower	Upper
93	100		
63	92.6	73.0	109.6

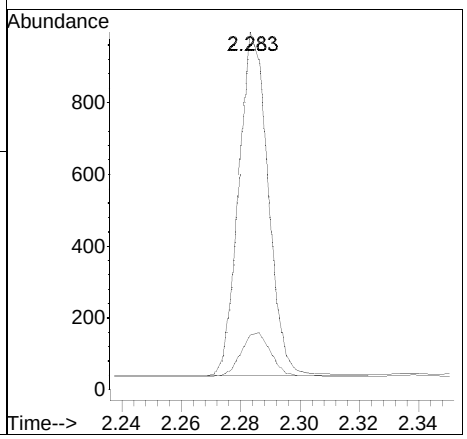


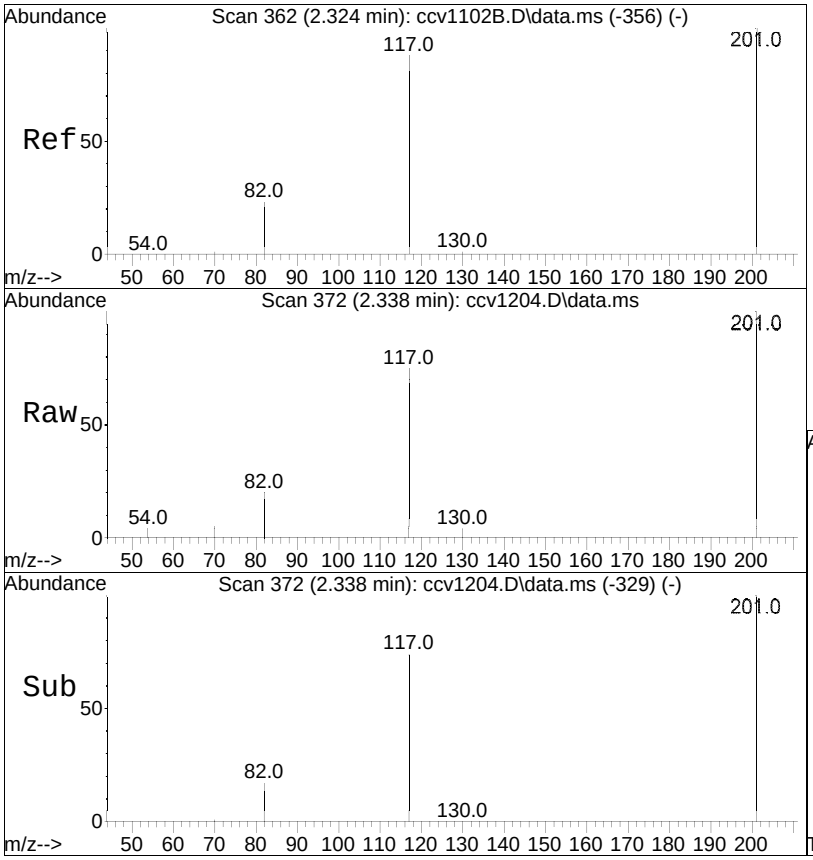


#5
n-nitrosodi-n-propylamine
Concen: 896.12 ng/ml
RT: 2.283 min Scan# 354
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion: 70 Resp: 651

Ion	Ratio	Lower	Upper
70	100		
130	12.4	14.6	21.8#

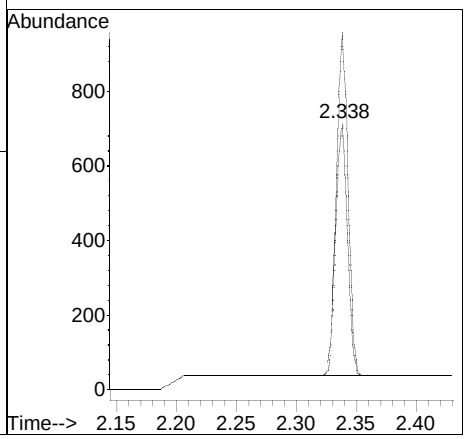


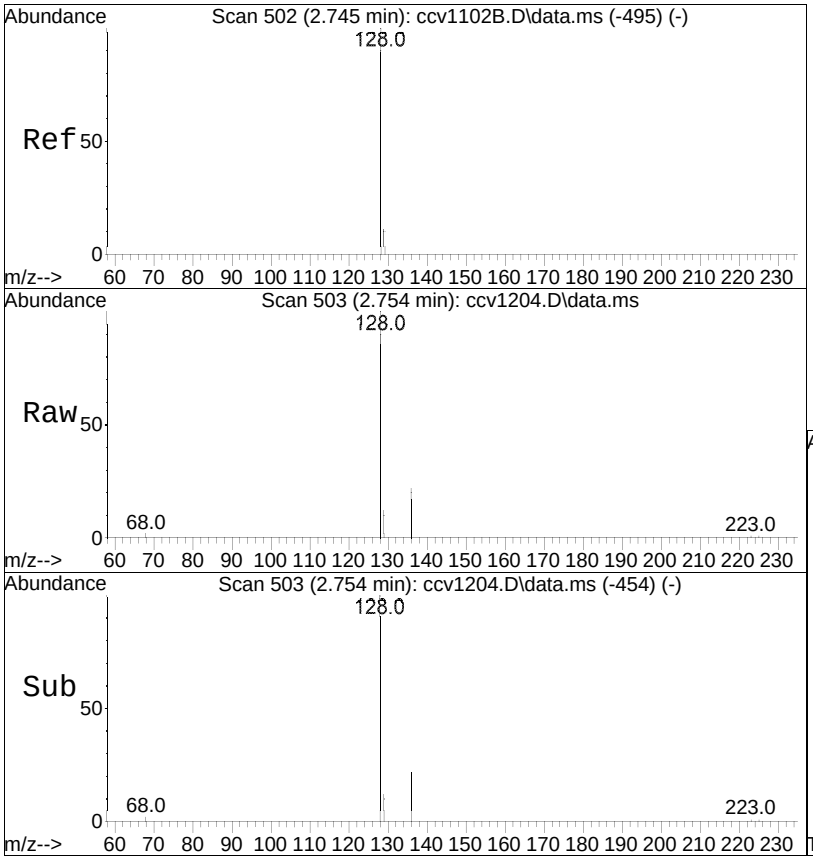


#6
Hexachloroethane
Concen: 1034.59 ng/ml
RT: 2.338 min Scan# 372
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:117 Resp: 447

Ion	Ratio	Lower	Upper
117	100		
201	134.5	91.5	137.3

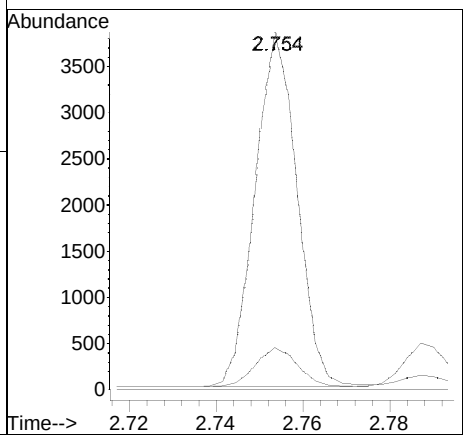


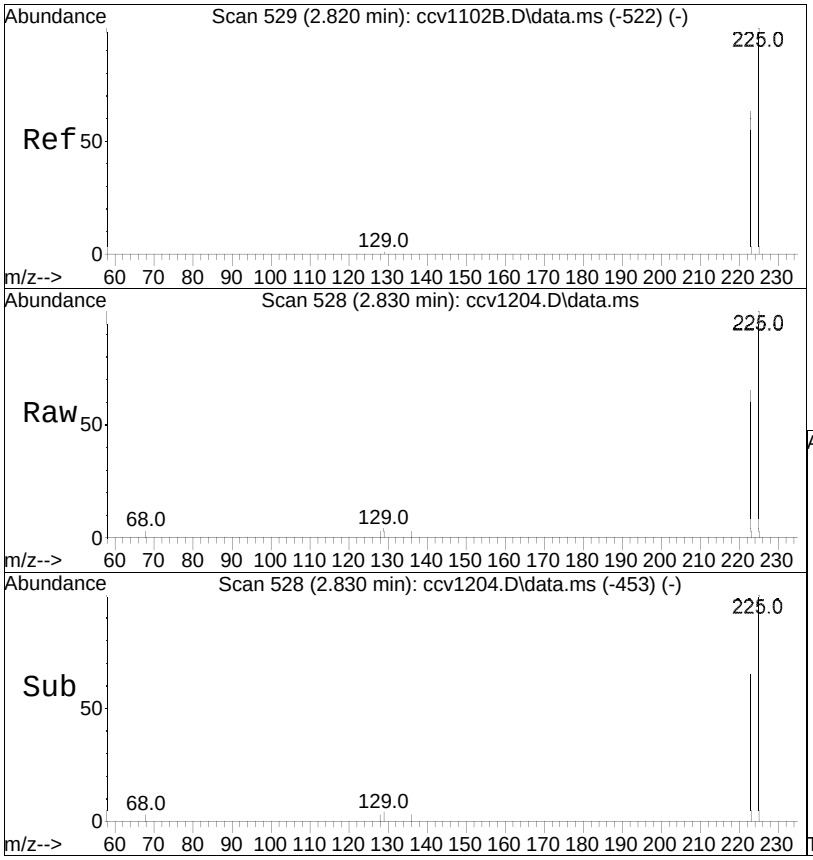


#9
Naphthalene
Concen: 957.34 ng/ml
RT: 2.754 min Scan# 503
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:128 Resp: 2547

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	0.0	0.0	0.0

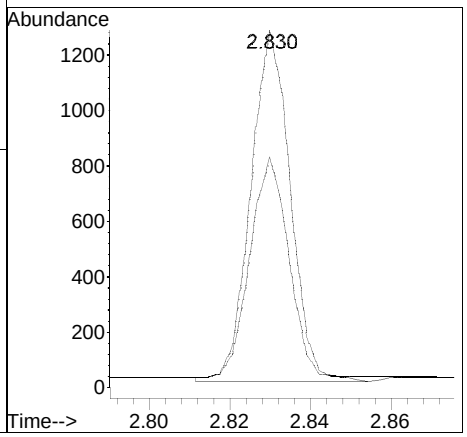


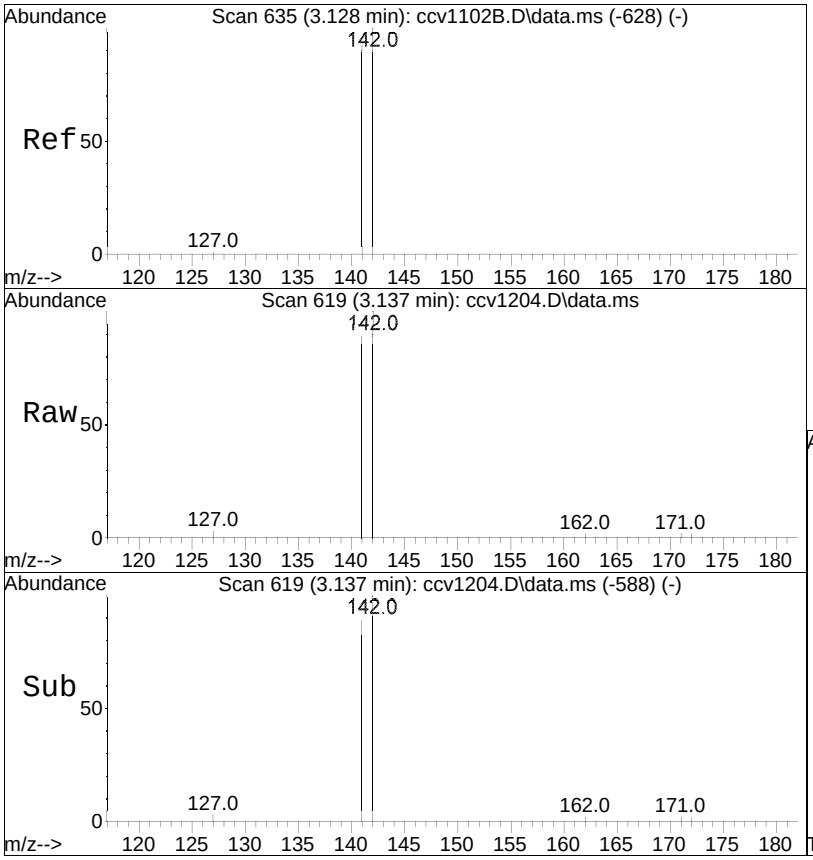


#10
Hexachlorobutadiene
Concen: 1689.09 ng/ml
RT: 2.830 min Scan# 528
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:225 Resp: 845

Ion	Ratio	Lower	Upper
225	100		
223	61.2	50.6	75.8

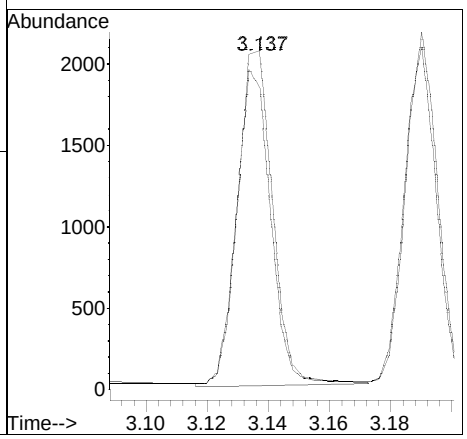


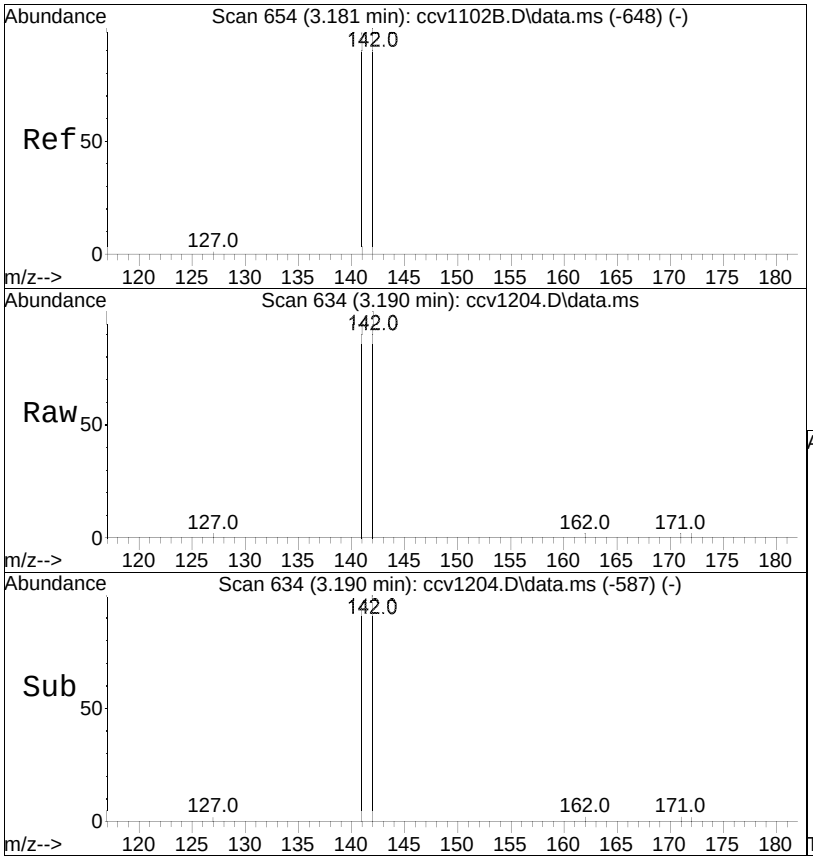


#11
2-Methylnaphthalene
Concen: 925.19 ng/ml
RT: 3.137 min Scan# 619
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:142 Resp: 1643

Ion	Ratio	Lower	Upper
142	100		
141	91.7	75.0	112.4

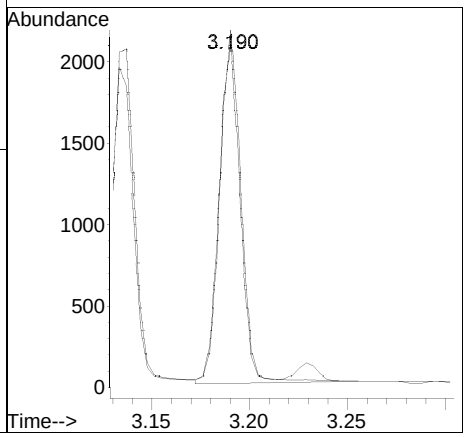


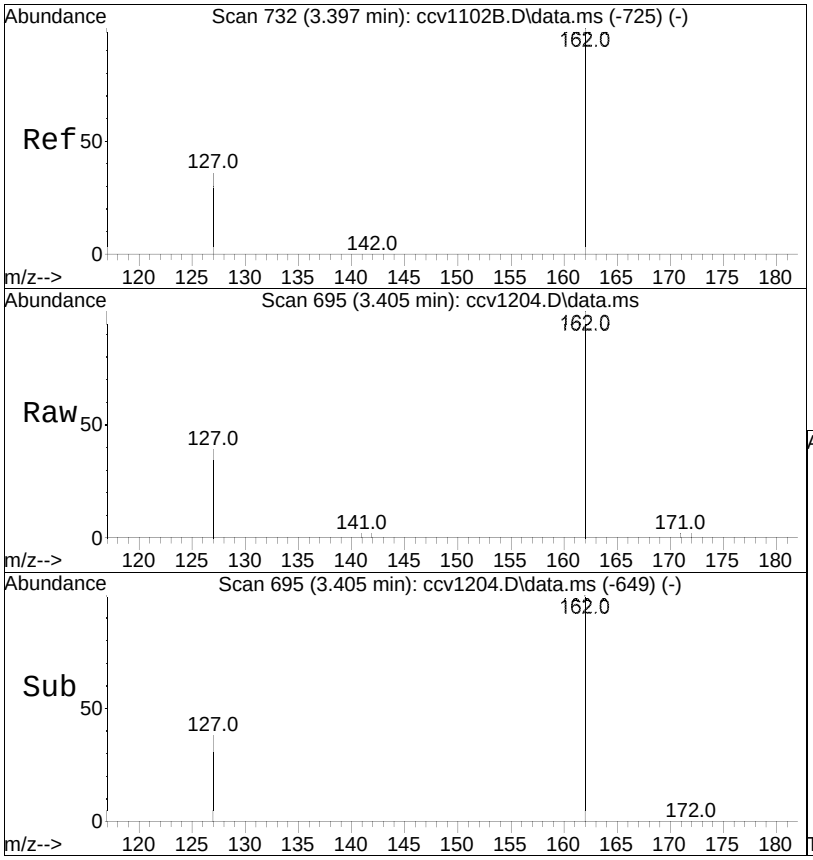


#12
1-Methylnaphthalene
Concen: 983.42 ng/ml
RT: 3.190 min Scan# 634
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:142 Resp: 1618

Ion	Ratio	Lower	Upper
142	100		
141	95.4	76.7	115.1

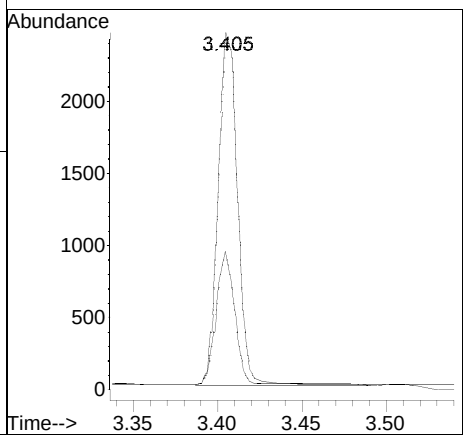


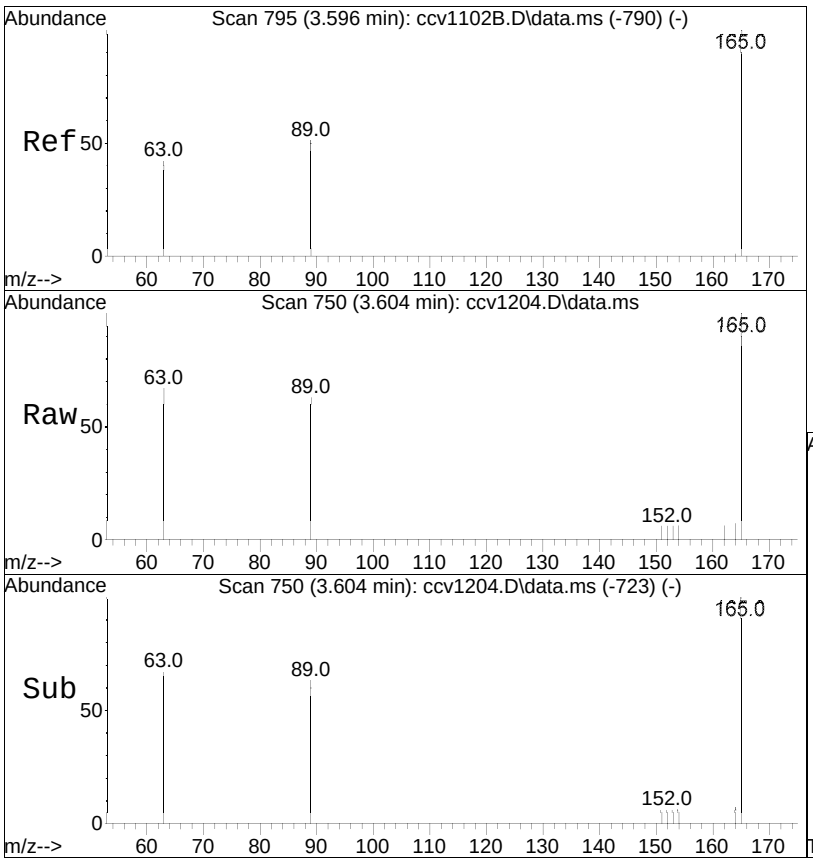


#14
2-Chloronaphthalene
Concen: 1056.48 ng/ml
RT: 3.405 min Scan# 695
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:162 Resp: 1945

Ion	Ratio	Lower	Upper
162	100		
127	35.4	28.7	43.1

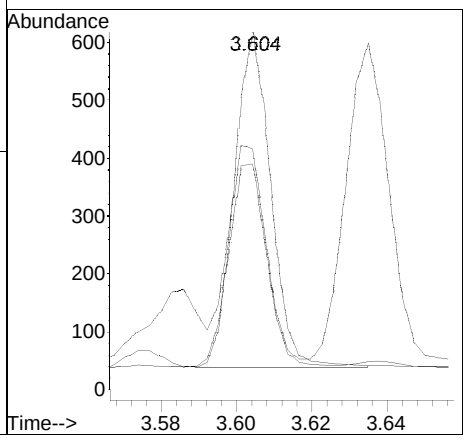


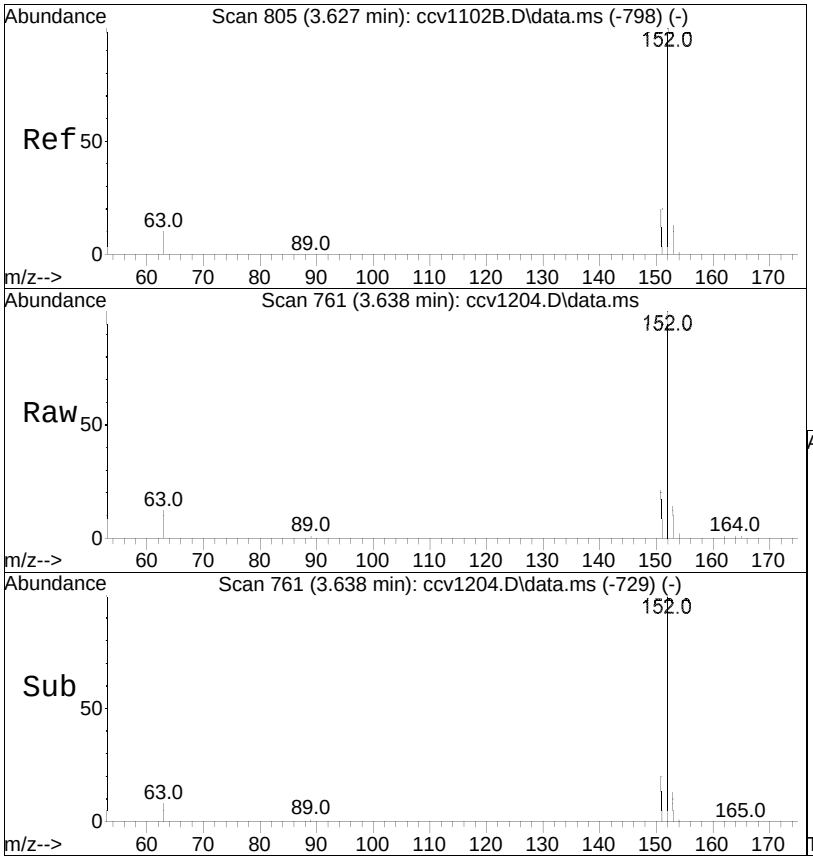


#15
2,6-Dinitrotoluene
Concen: 1060.70 ng/ml M6
RT: 3.604 min Scan# 750
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:165 Resp: 390

Ion	Ratio	Lower	Upper
165	100		
89	67.9	45.0	67.6#
63	76.2	46.2	69.2#

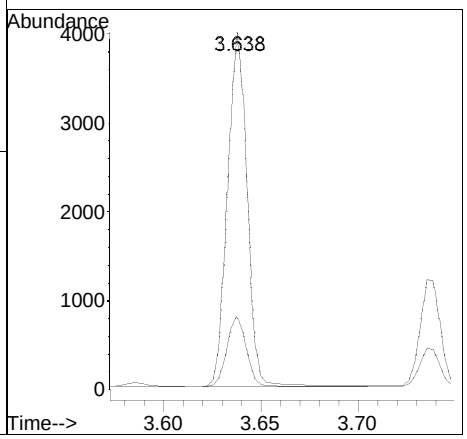


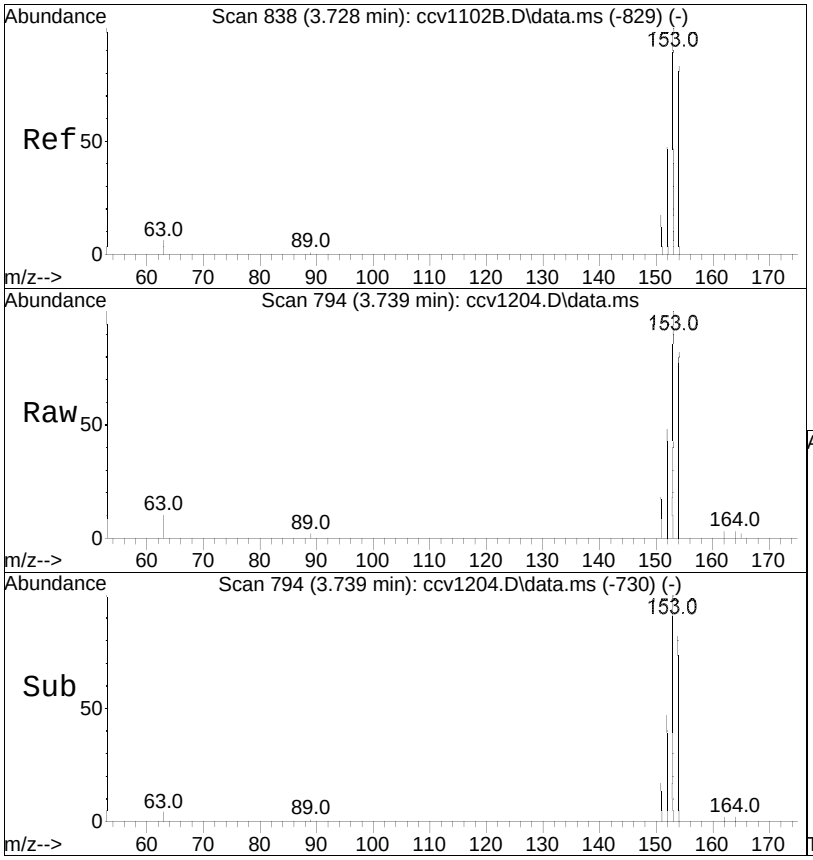


#16
Acenaphthylene
Concen: 938.65 ng/ml
RT: 3.638 min Scan# 761
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:152 Resp: 2752

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.1	24.1

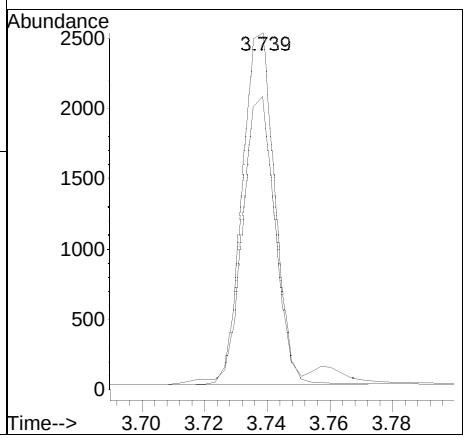


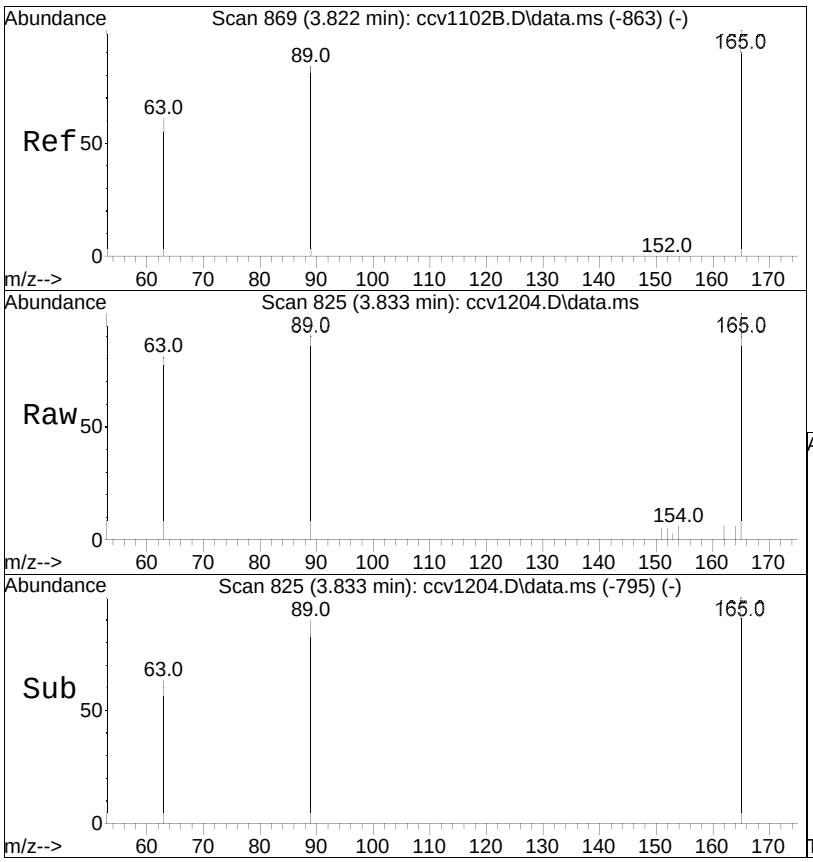


#18
Acenaphthene
Concen: 895.93 ng/ml M6
RT: 3.739 min Scan# 794
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:153 Resp: 1791

Ion	Ratio	Lower	Upper
153	100		
154	82.6	67.4	101.2

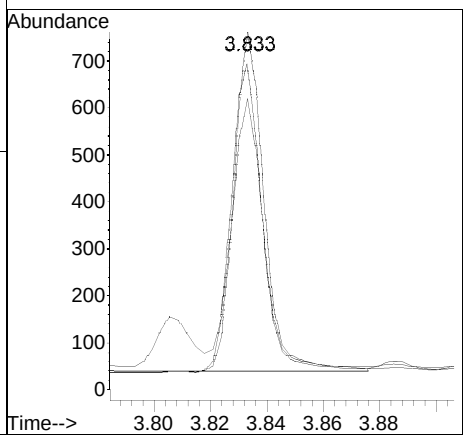


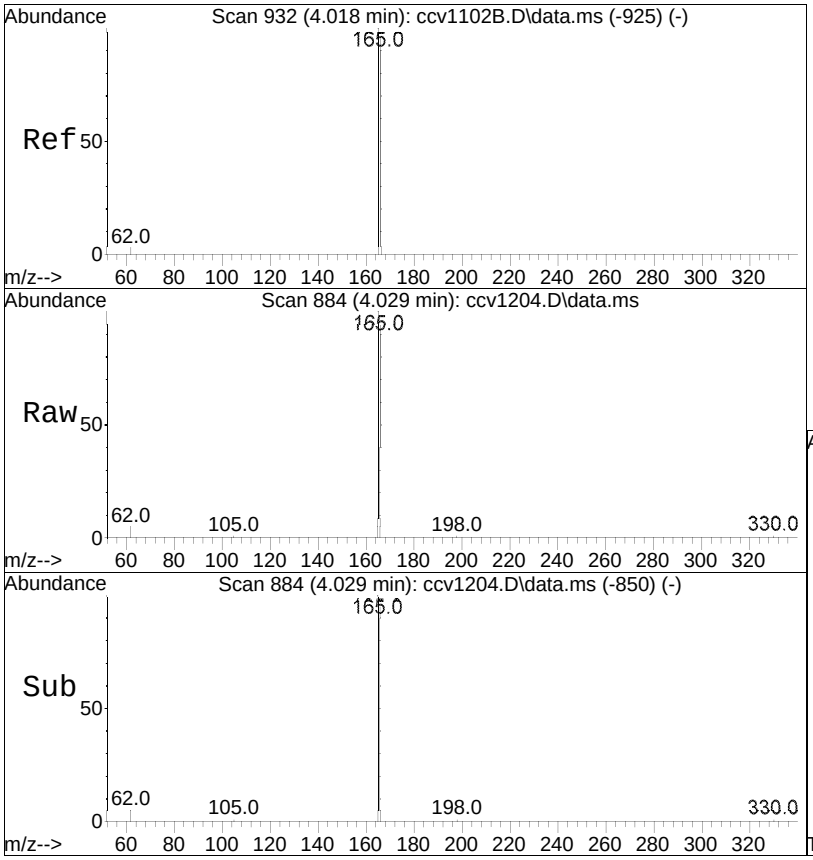


#19
2,4-Dinitrotoluene
Concen: 1114.26 ng/ml
RT: 3.833 min Scan# 825
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:165 Resp: 534

Ion	Ratio	Lower	Upper
165	100		
89	93.1	71.4	107.2
63	82.4	67.9	101.9

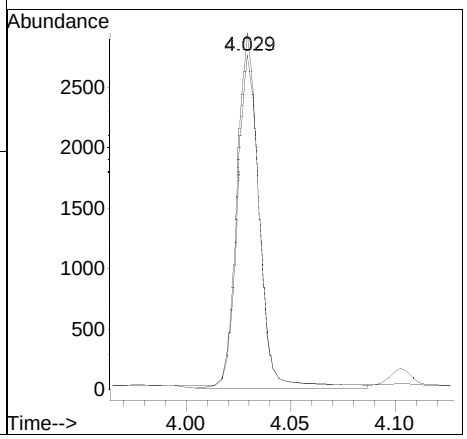


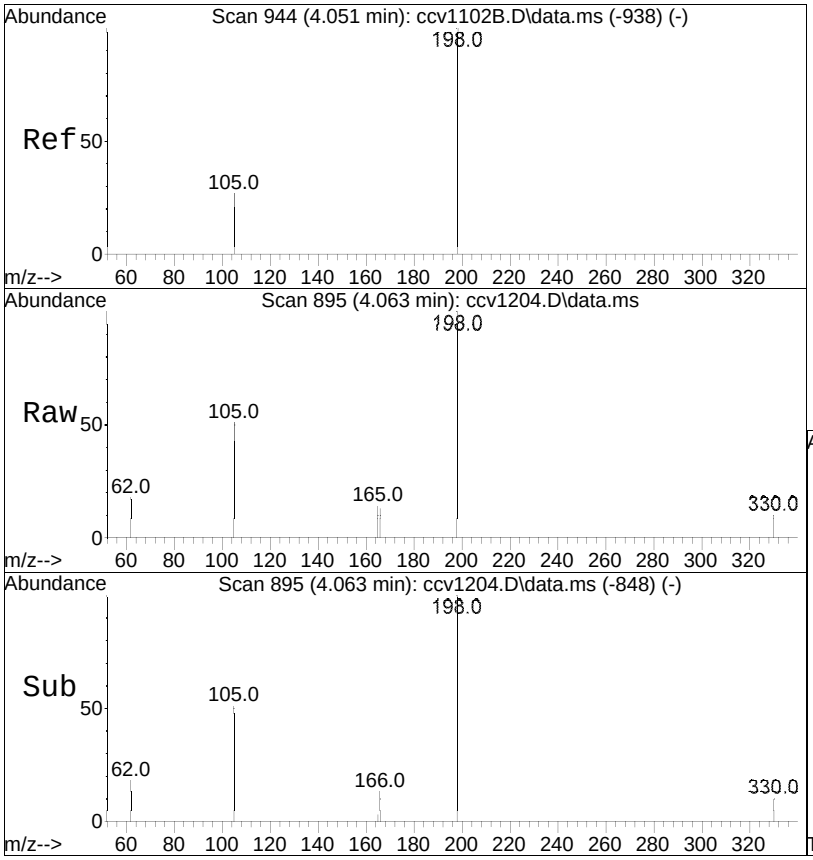


#20
Fluorene
Concen: 924.66 ng/ml
RT: 4.029 min Scan# 884
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:166 Resp: 2017

Ion	Ratio	Lower	Upper
166	100		
165	101.7	82.7	124.1

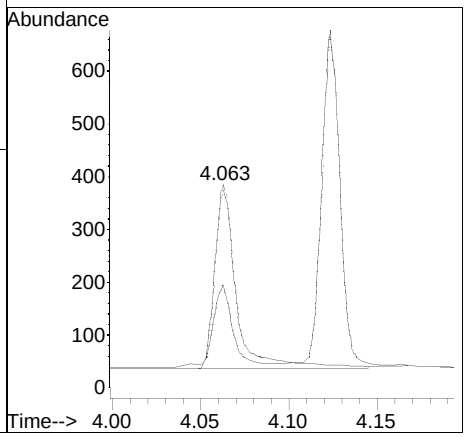


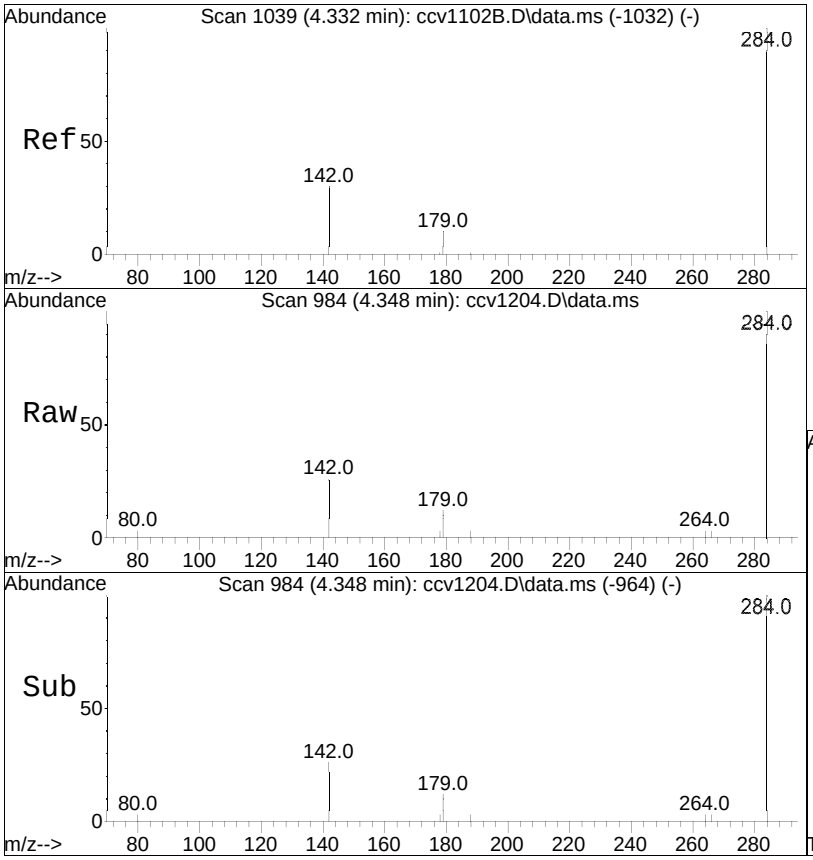


#23
4,6-Dinitro-o-cresol
Concen: 1207.65 ng/ml
RT: 4.063 min Scan# 895
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:198 Resp: 292

Ion	Ratio	Lower	Upper
198	100		
105	36.3	26.7	40.1

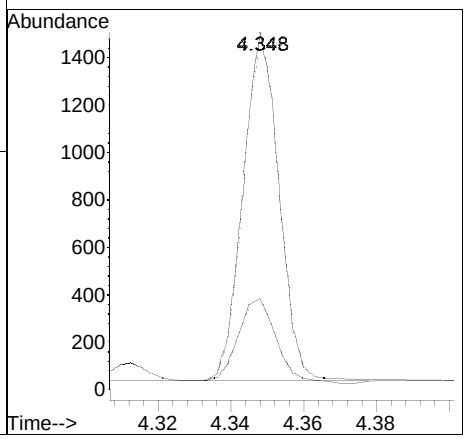


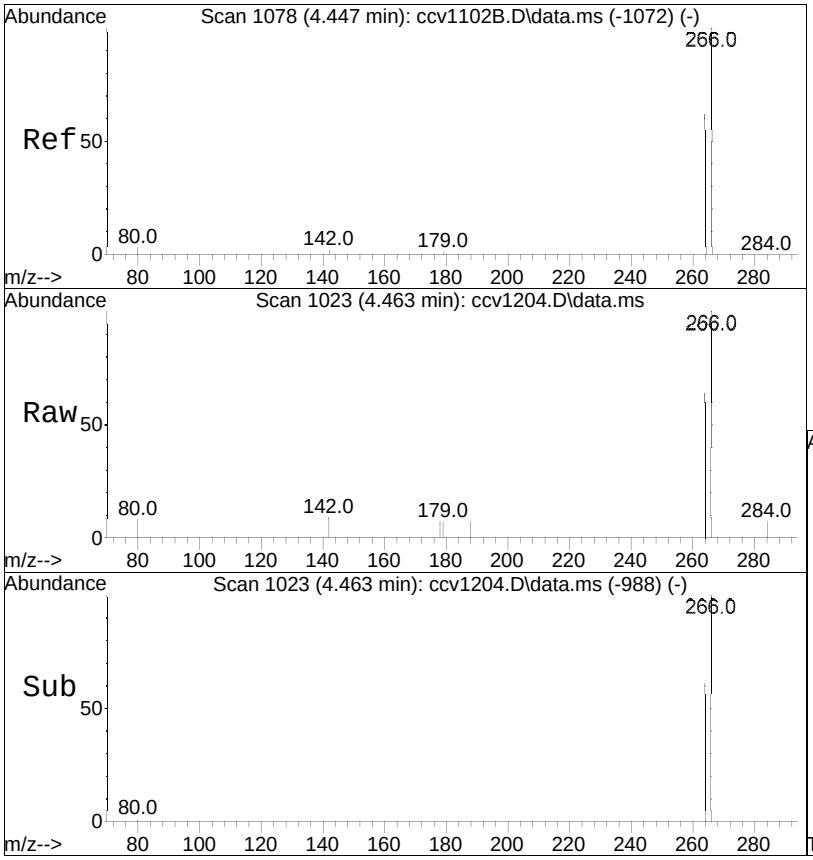


#24
Hexachlorobenzene
Concen: 1340.00 ng/ml M6
RT: 4.348 min Scan# 984
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:284 Resp: 996

Ion	Ratio	Lower	Upper
284	100		
142	28.3	26.6	40.0

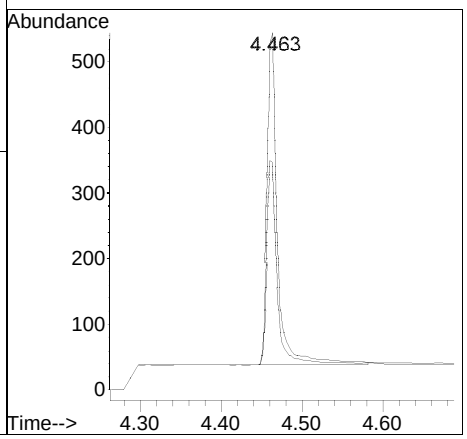


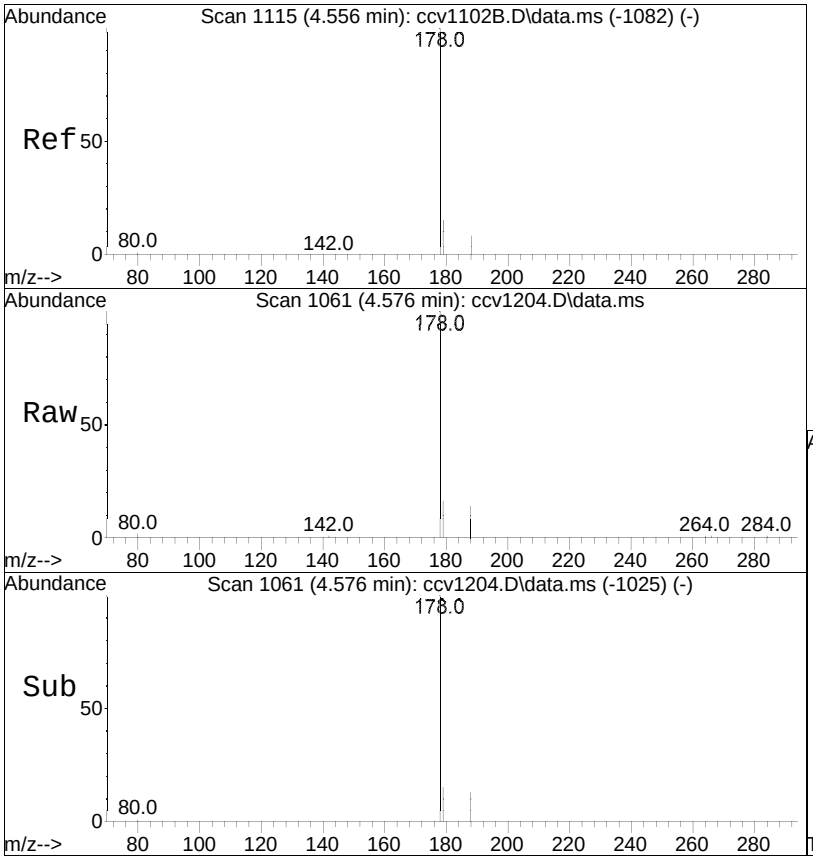


#25
Pentachlorophenol
Concen: 967.22 ng/ml
RT: 4.463 min Scan# 1023
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:266 Resp: 451

Ion	Ratio	Lower	Upper
266	100		
264	60.1	49.8	74.8

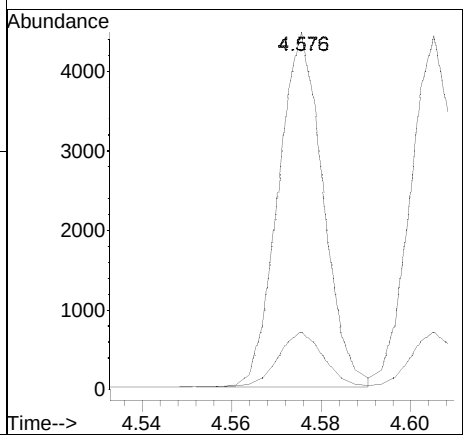


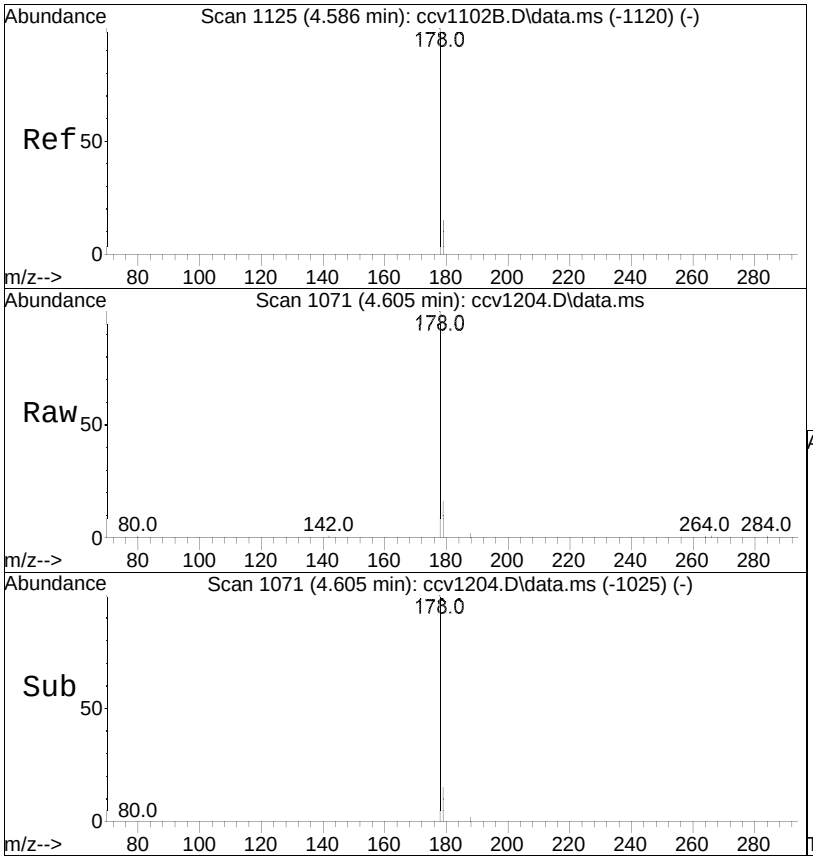


#26
Phenanthrene
Concen: 896.03 ng/ml M6
RT: 4.576 min Scan# 1061
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:178 Resp: 3092

Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6

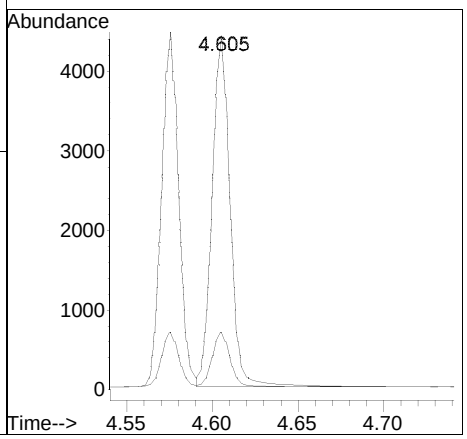


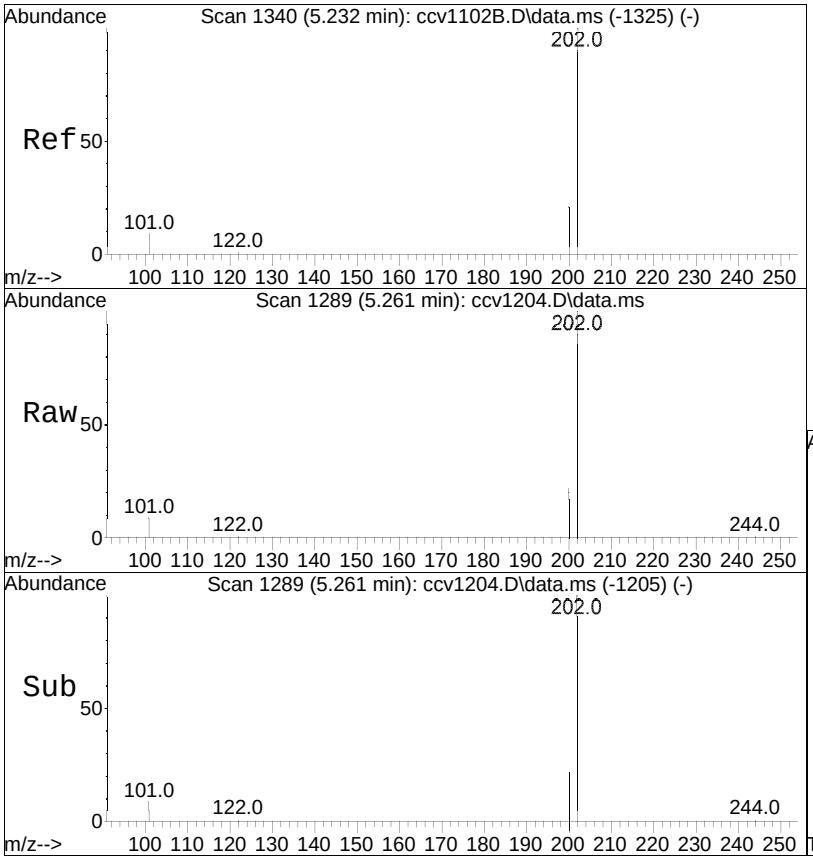


#27
Anthracene
Concen: 951.09 ng/ml
RT: 4.605 min Scan# 1071
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:178 Resp: 3194

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.6	19.0

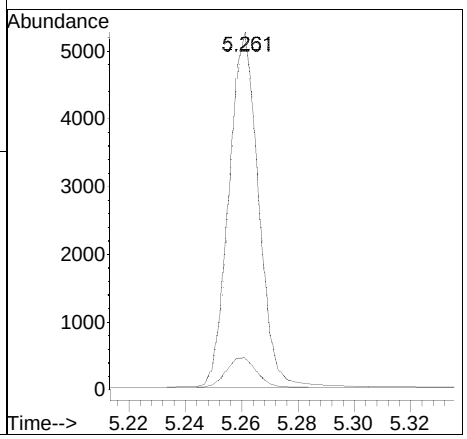


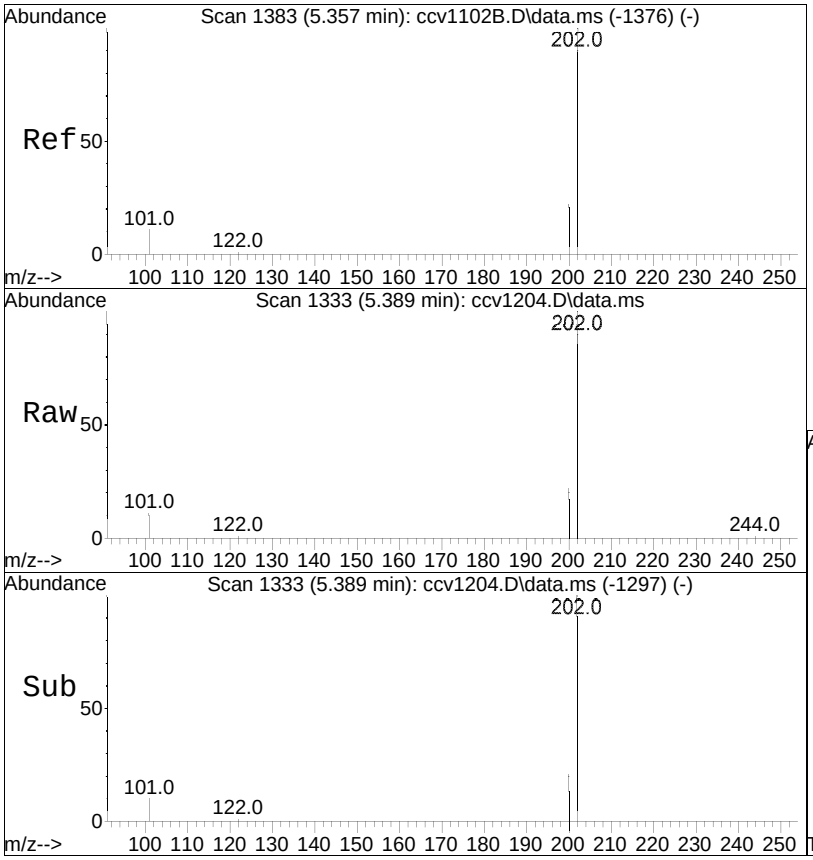


#28
Fluoranthene
Concen: 946.21 ng/ml M6
RT: 5.261 min Scan# 1289
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:202 Resp: 3793

Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.0	10.6

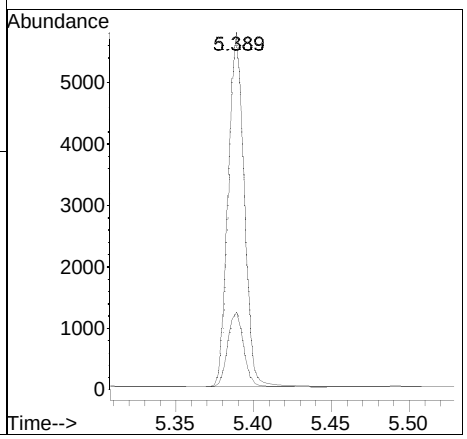


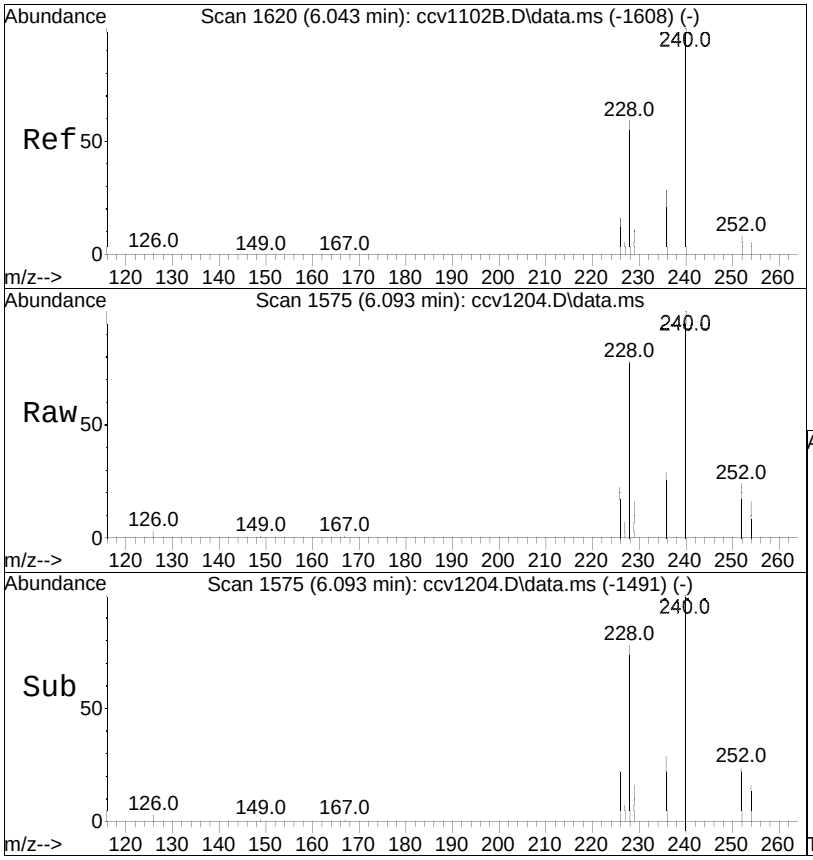


#29
Pyrene
Concen: 979.64 ng/ml
RT: 5.389 min Scan# 1333
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:202 Resp: 4065

Ion	Ratio	Lower	Upper
202	100		
200	22.8	17.0	25.4

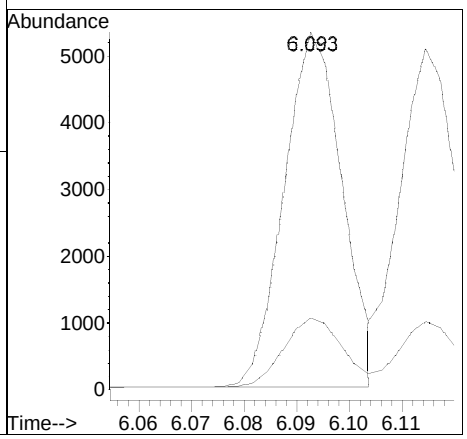


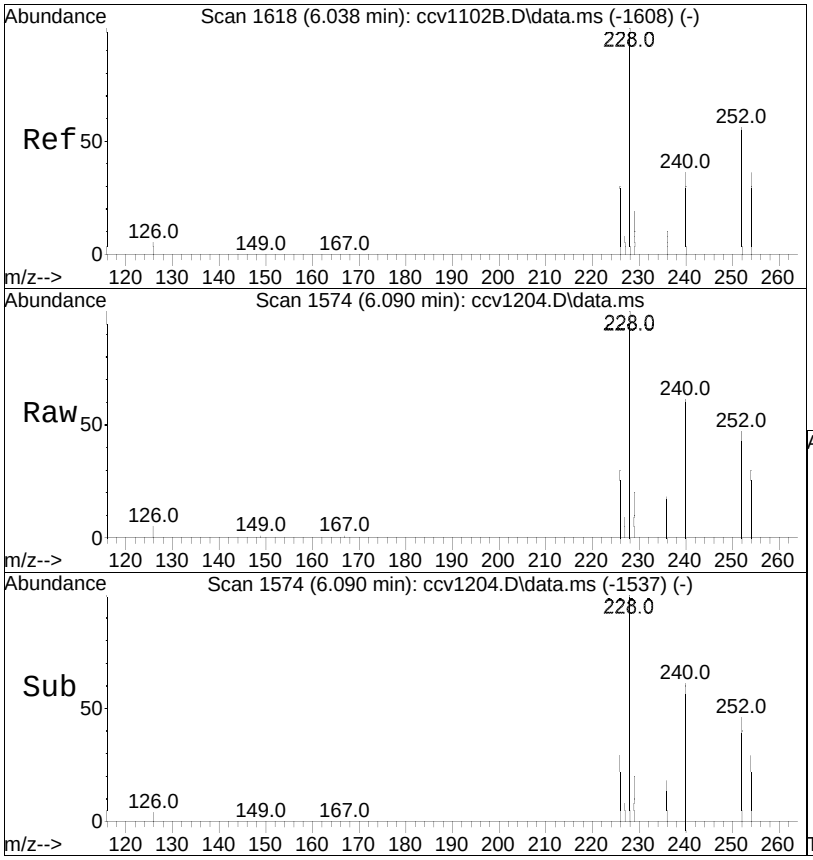


#32
Benzo[a]anthracene
Concen: 907.00 ng/ml
RT: 6.093 min Scan# 1575
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:228 Resp: 4098

Ion	Ratio	Lower	Upper
228	100		
229	19.8	15.7	23.5

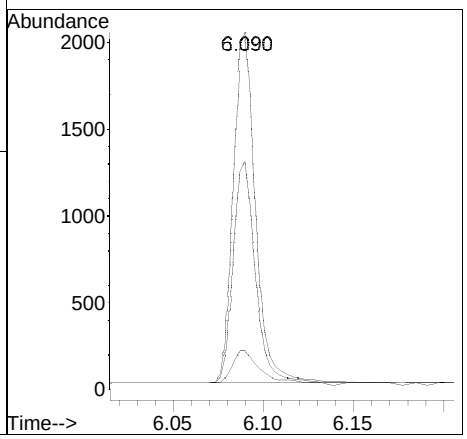


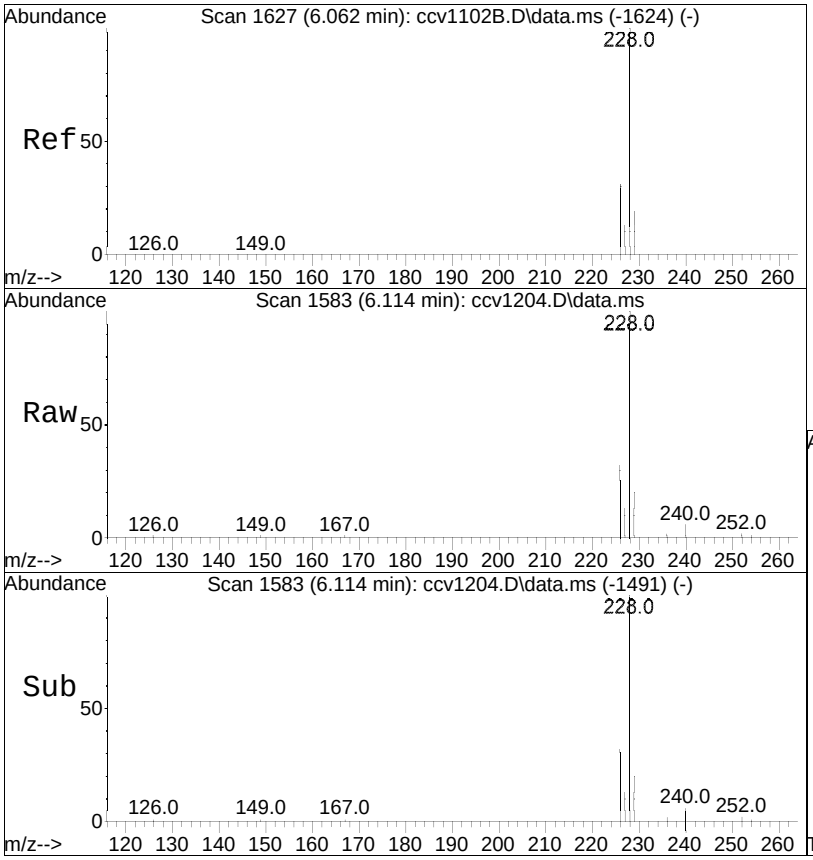


#33
3,3'-Dichlorobenzidine
Concen: 1015.30 ng/ml
RT: 6.090 min Scan# 1574
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:252 Resp: 1728

Ion	Ratio	Lower	Upper
252	100		
126	14.2	9.1	13.7#
254	63.1	51.6	77.4

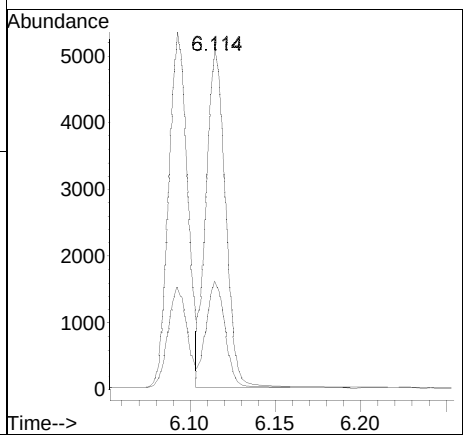


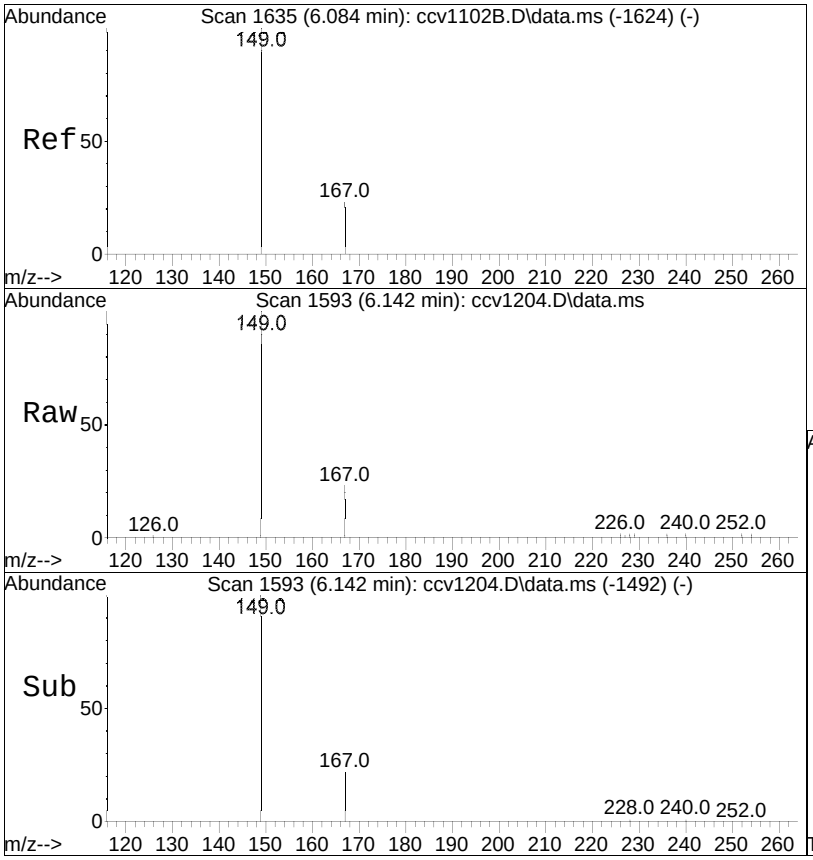


#34
Chrysene
Concen: 940.80 ng/ml
RT: 6.114 min Scan# 1583
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:228 Resp: 3961

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.6	37.0

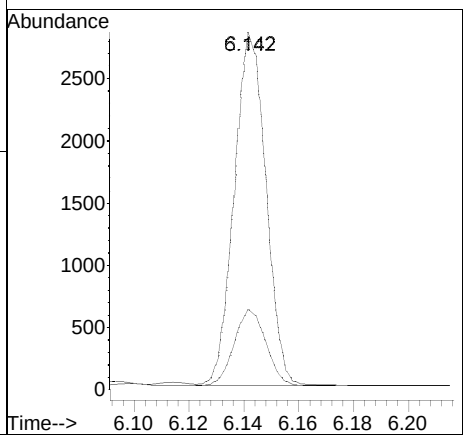


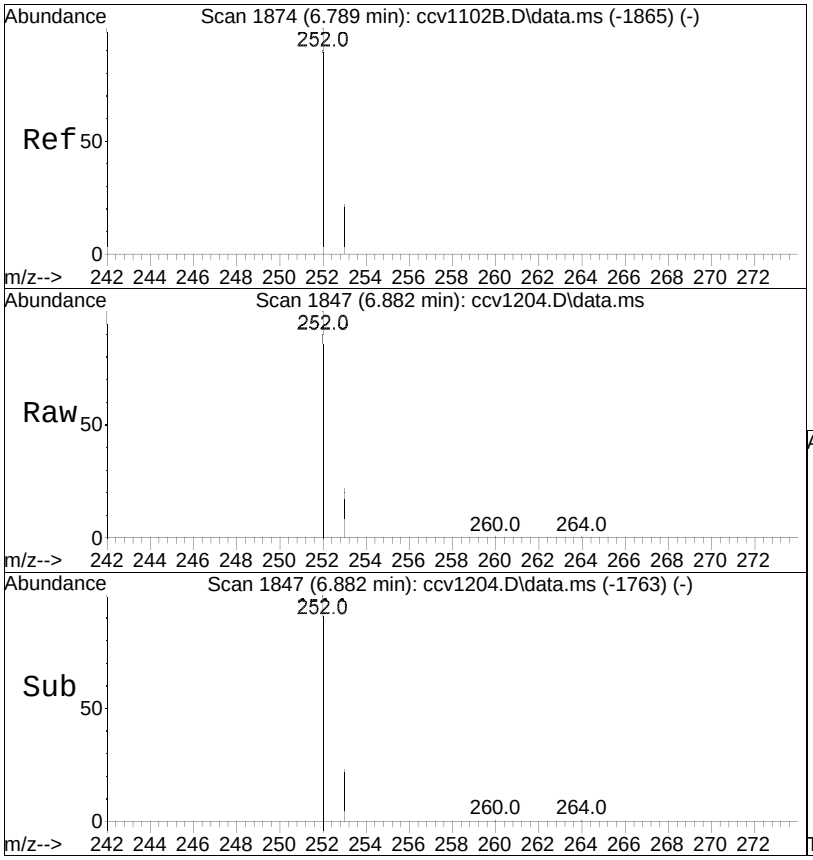


#35
Bis(2-ethylhexyl)phthalate
Concen: 840.59 ng/ml
RT: 6.142 min Scan# 1593
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:149 Resp: 2234

Ion	Ratio	Lower	Upper
149	100		
167	21.6	18.7	28.1

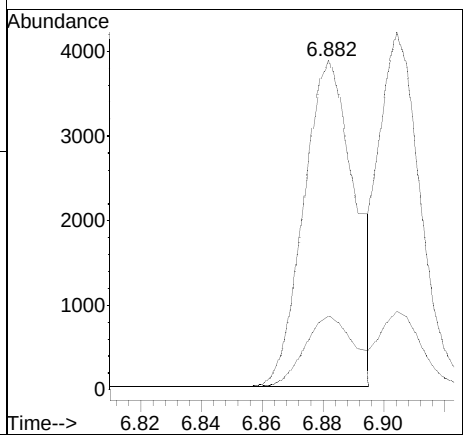


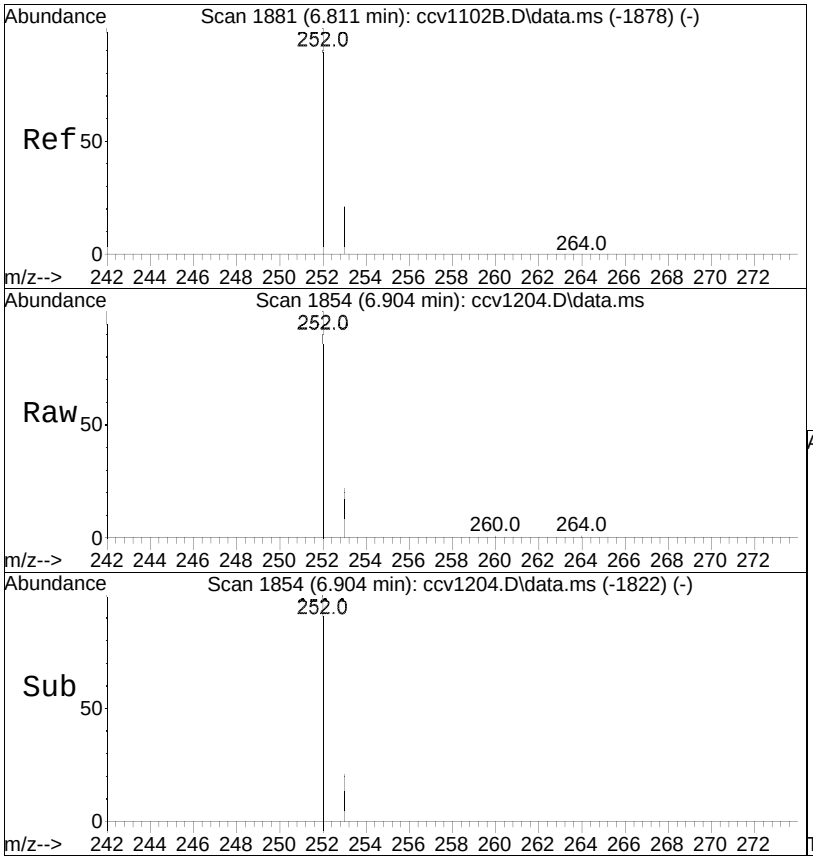


#37
Benzo[b]fluoranthene
Concen: 958.43 ng/ml M7
RT: 6.882 min Scan# 1847
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:252 Resp: 4521

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.0

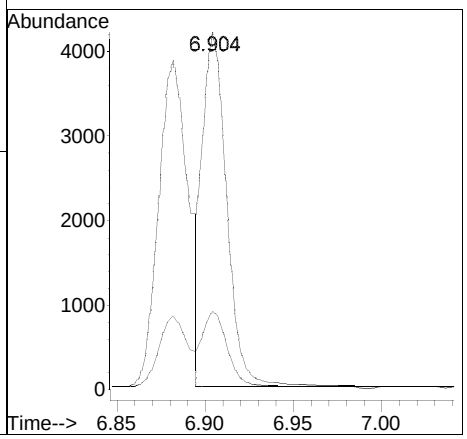


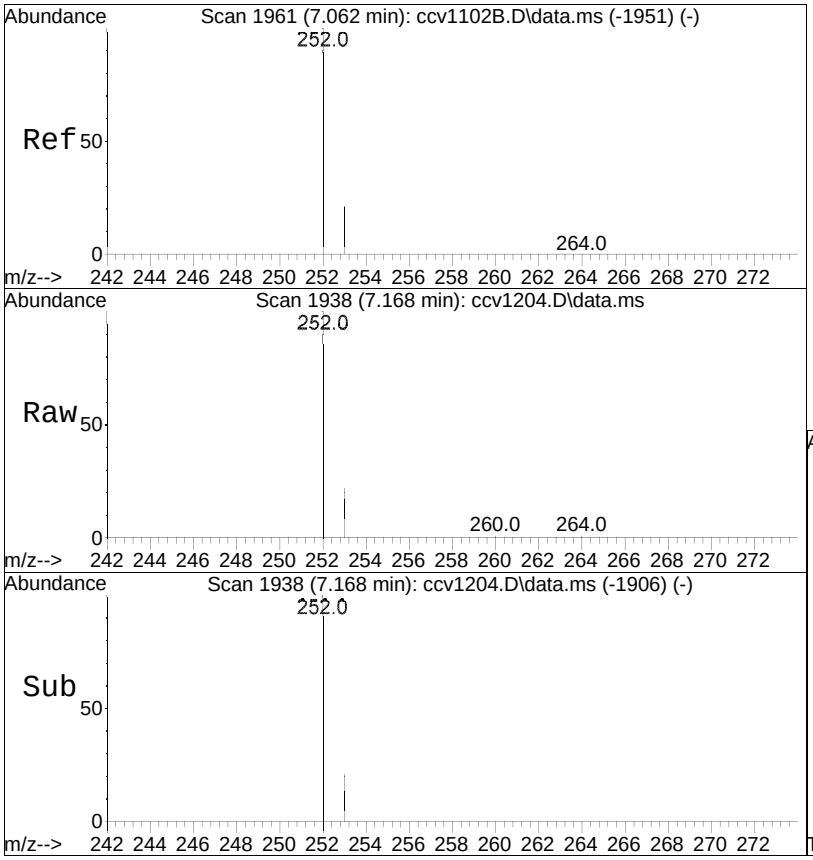


#38
Benzo[k]fluoranthene
Concen: 905.07 ng/ml
RT: 6.904 min Scan# 1854
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:252 Resp: 3951

Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.4	26.2

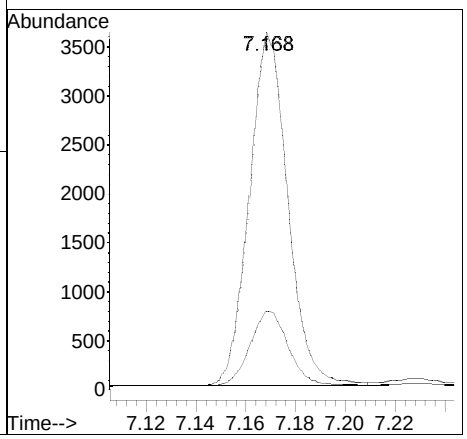


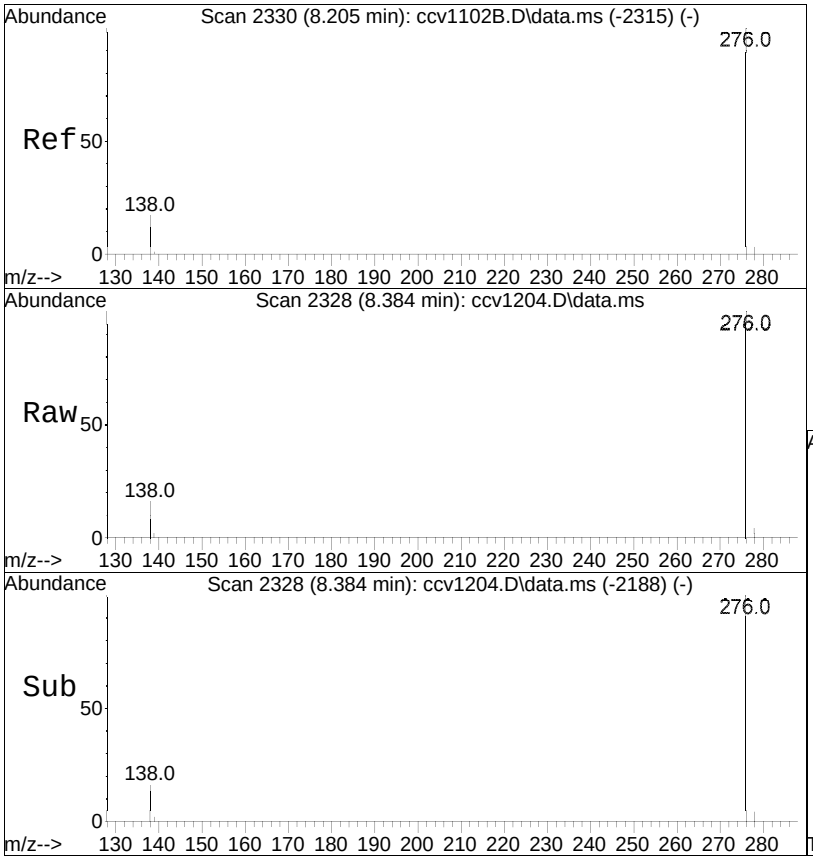


#39
Benzo[a]pyrene
Concen: 950.57 ng/ml
RT: 7.168 min Scan# 1938
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:252 Resp: 3851

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.3	25.9

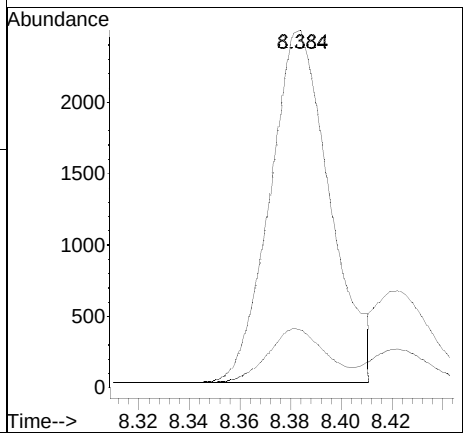


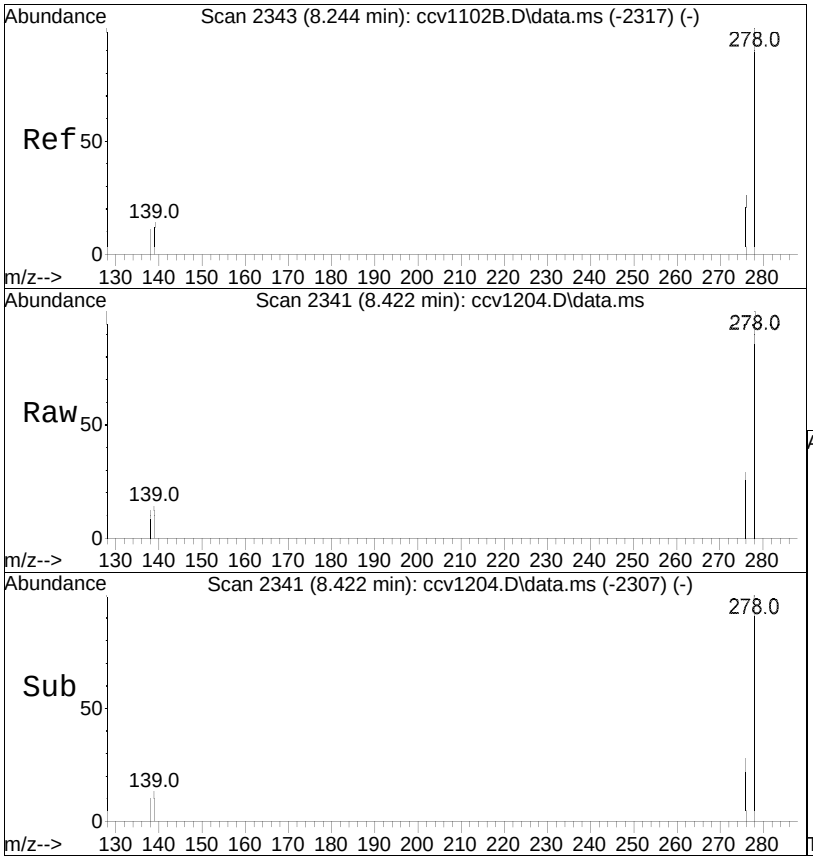


#40
Indeno[1,2,3-cd]pyrene
Concen: 996.71 ng/ml
RT: 8.384 min Scan# 2328
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:276 Resp: 4041

Ion	Ratio	Lower	Upper
276	100		
138	14.7	13.8	20.6

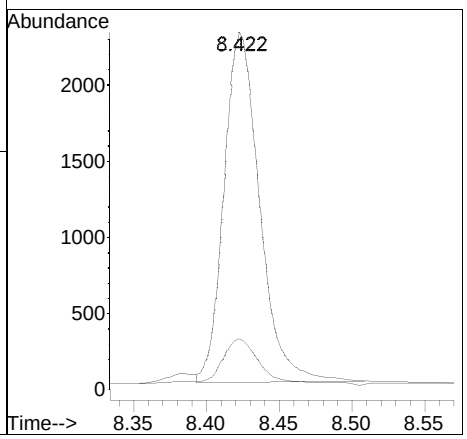


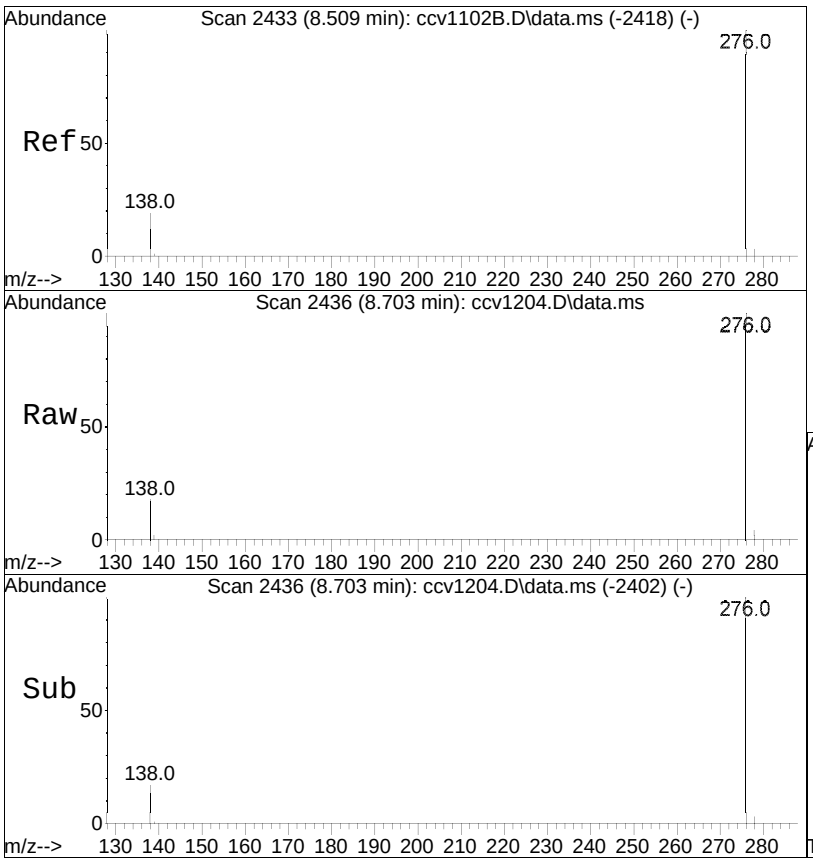


#41
Dibenzo[a,h]anthracene
Concen: 997.59 ng/ml
RT: 8.422 min Scan# 2341
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:278 Resp: 3893

Ion	Ratio	Lower	Upper
278	100		
139	15.0	11.2	16.8

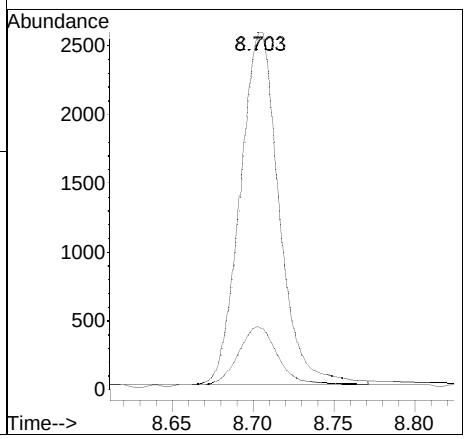




#42
Benzo[g,h,i]perylene
Concen: 1020.16 ng/ml M6
RT: 8.703 min Scan# 2436
Delta R.T. 0.000 min
Lab File: ccv1204.D
Acq: 04 Dec 2023 09:57 am

Tgt Ion:276 Resp: 4236

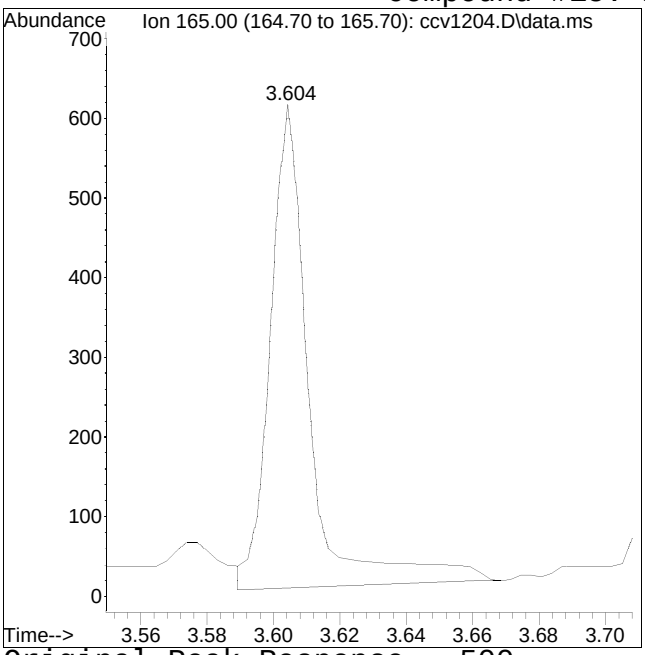
Ion	Ratio	Lower	Upper
276	100		
138	16.6	15.0	22.6



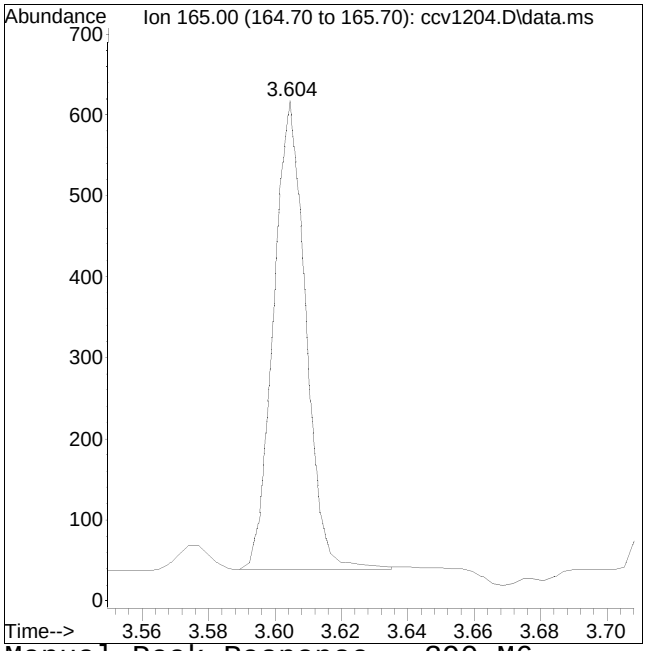
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : ccv1204.D Operator : SV128:ah
Date Inj'd : 12/4/2023 9:57 am Instrument : SV128
Sample : WG1859432-3,32,,ICV 10193 Quant Date : 12/4/2023 11:04 am

Compound #15: 2,6-Dinitrotoluene



Original Peak Response = 500



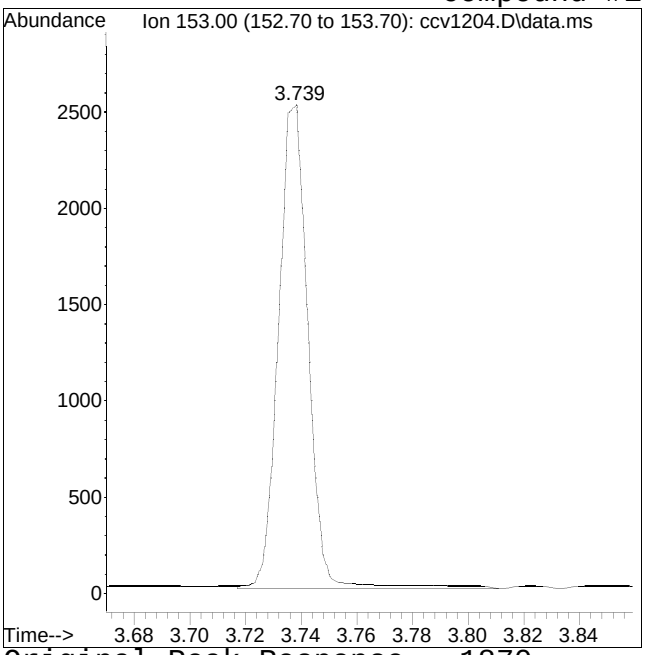
Manual Peak Response = 390 M6

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

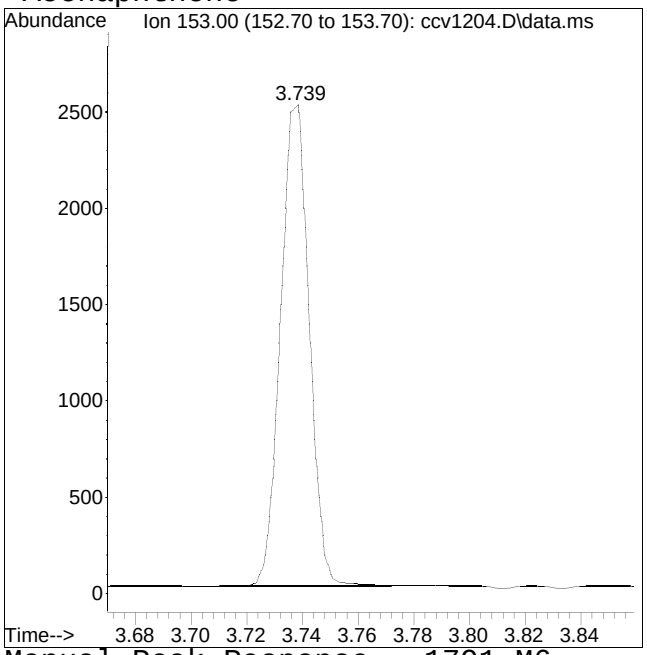
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : ccv1204.D Operator : SV128:ah
Date Inj'd : 12/4/2023 9:57 am Instrument : SV128
Sample : WG1859432-3,32,,ICV 10193 Quant Date : 12/4/2023 11:04 am

Compound #18: Acenaphthene



Original Peak Response = 1870



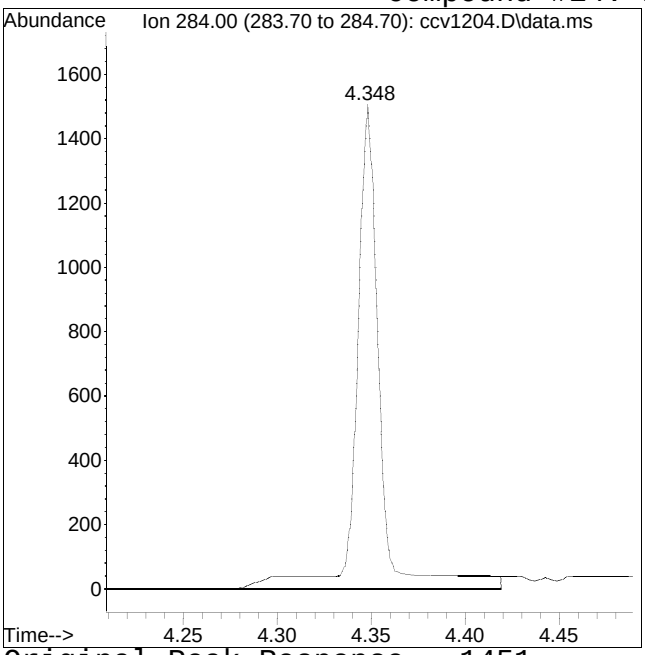
Manual Peak Response = 1791 M6

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

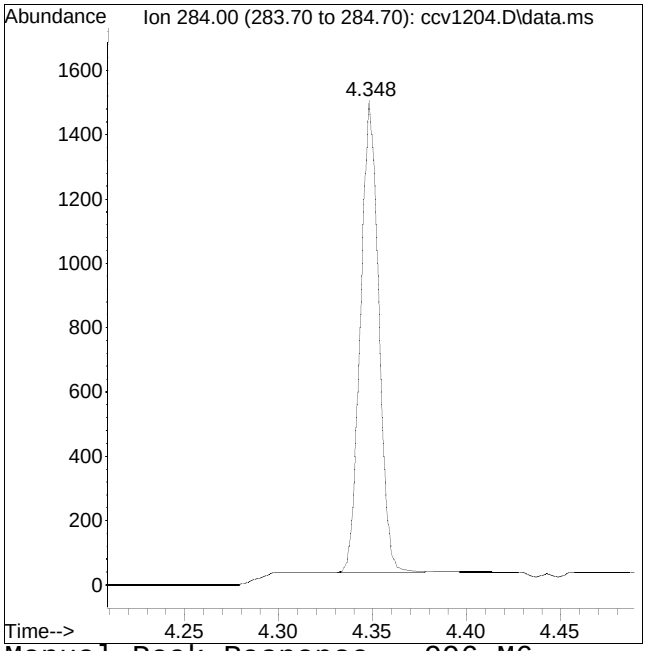
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : ccv1204.D Operator : SV128:ah
Date Inj'd : 12/4/2023 9:57 am Instrument : SV128
Sample : WG1859432-3,32,,ICV 10193 Quant Date : 12/4/2023 11:04 am

Compound #24: Hexachlorobenzene



Original Peak Response = 1451



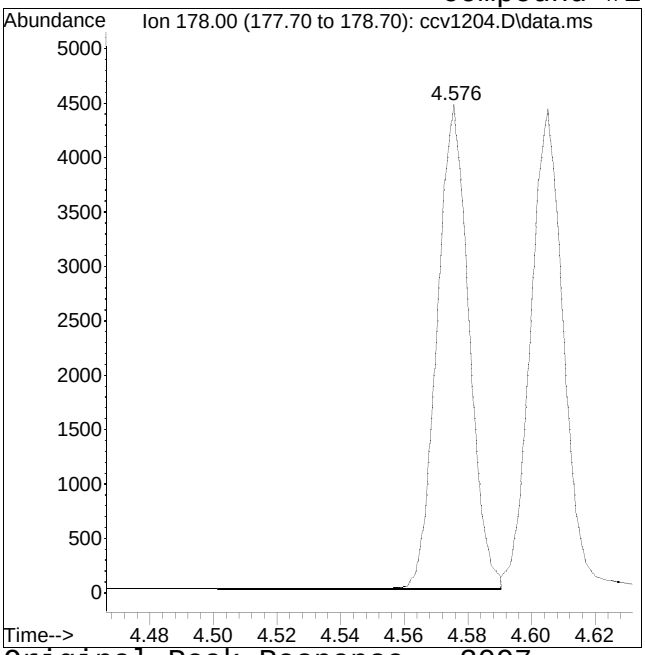
Manual Peak Response = 996 M6

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

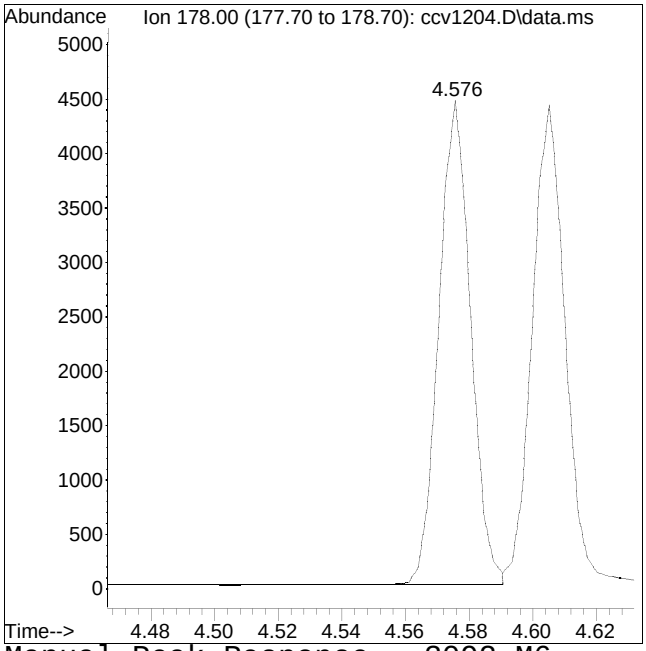
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : ccv1204.D Operator : SV128:ah
Date Inj'd : 12/4/2023 9:57 am Instrument : SV128
Sample : WG1859432-3,32,,ICV 10193 Quant Date : 12/4/2023 11:04 am

Compound #26: Phenanthrene



Original Peak Response = 3097



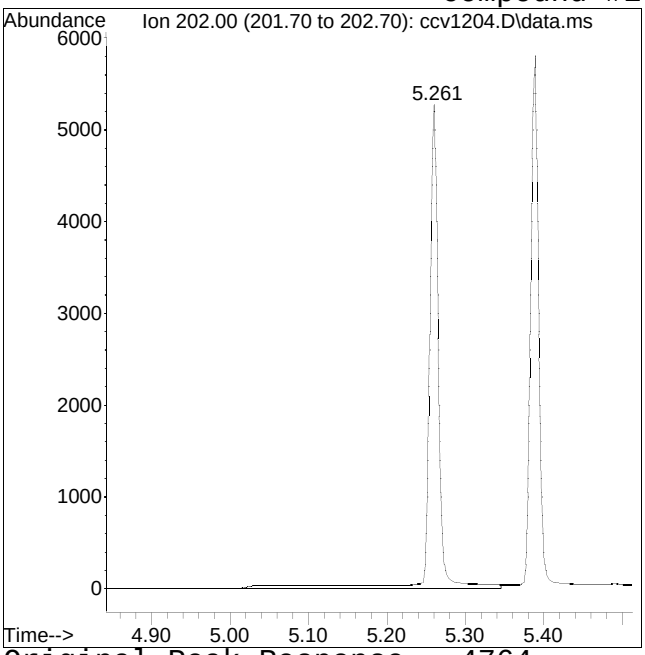
Manual Peak Response = 3092 M6

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

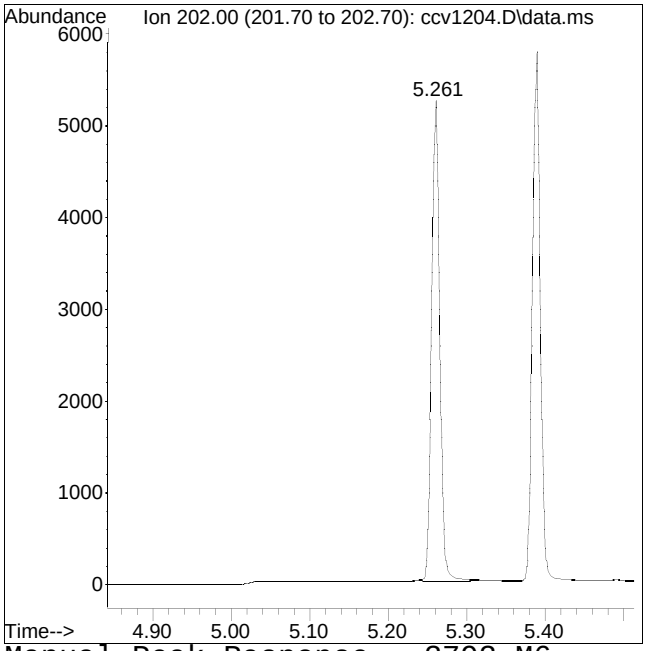
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : ccv1204.D Operator : SV128:ah
Date Inj'd : 12/4/2023 9:57 am Instrument : SV128
Sample : WG1859432-3,32,,ICV 10193 Quant Date : 12/4/2023 11:04 am

Compound #28: Fluoranthene



Original Peak Response = 4764



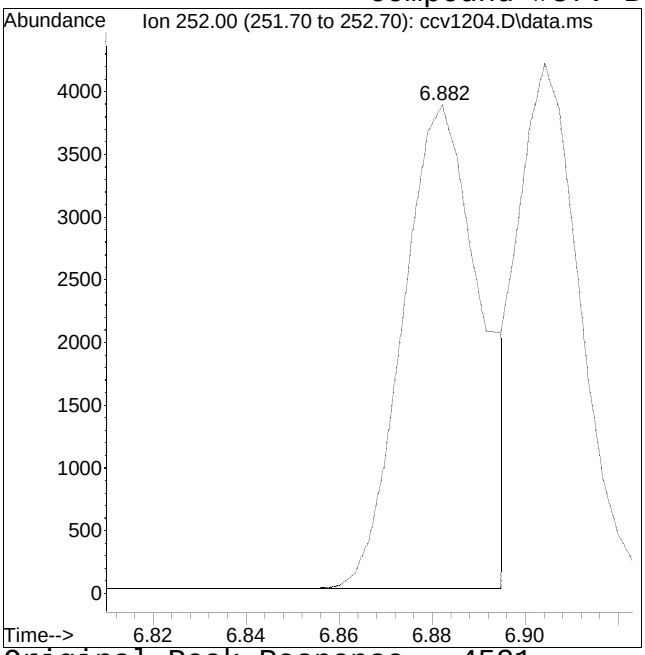
Manual Peak Response = 3793 M6

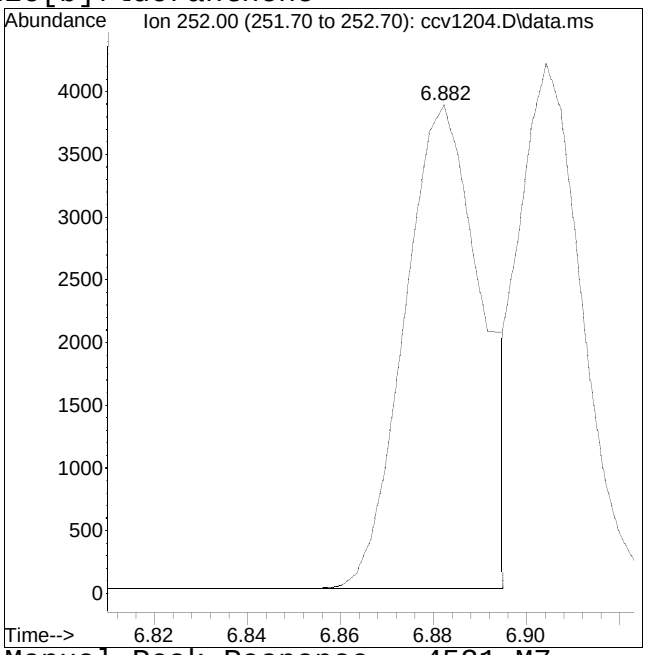
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : ccv1204.D Operator : SV128:ah
Date Inj'd : 12/4/2023 9:57 am Instrument : SV128
Sample : WG1859432-3,32,,ICV 10193 Quant Date : 12/4/2023 11:04 am

Compound #37: Benzo[b]fluoranthene



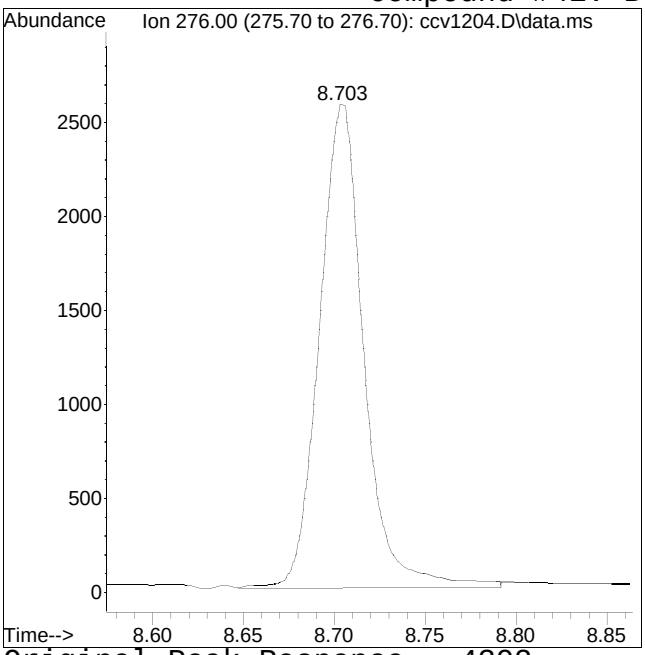


Original Peak Response = 4521 Manual Peak Response = 4521 M7
M7 = A qualifier ion was manually integrated (only for GC/MS data).

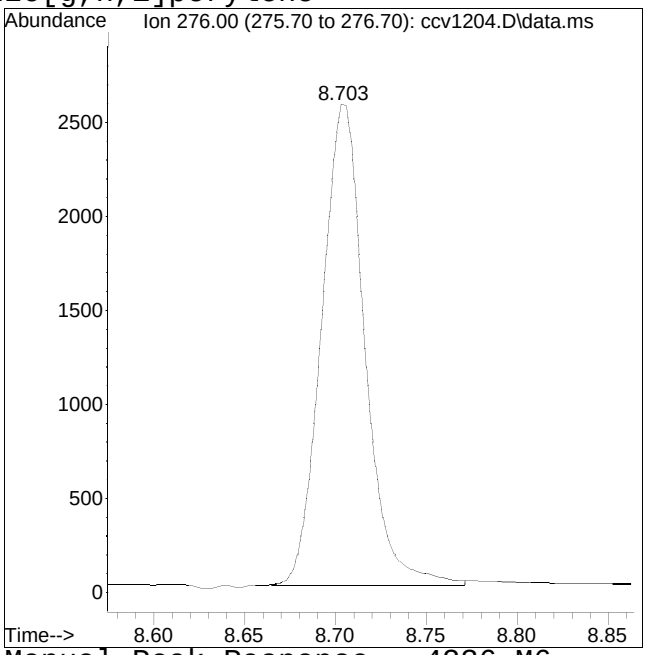
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : ccv1204.D Operator : SV128:ah
Date Inj'd : 12/4/2023 9:57 am Instrument : SV128
Sample : WG1859432-3,32,,ICV 10193 Quant Date : 12/4/2023 11:04 am

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 4392



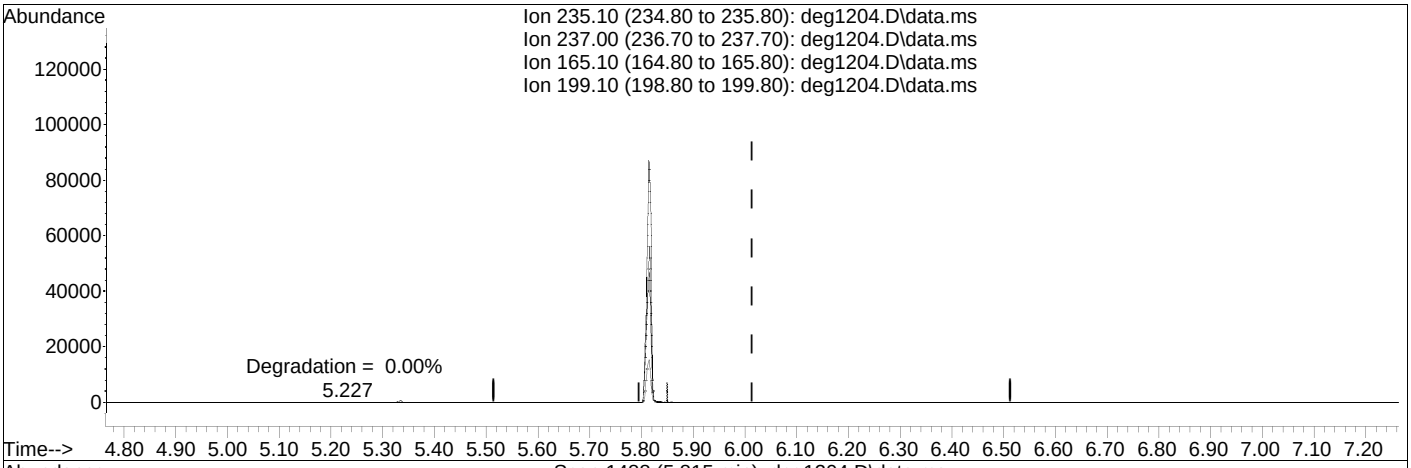
Manual Peak Response = 4236 M6

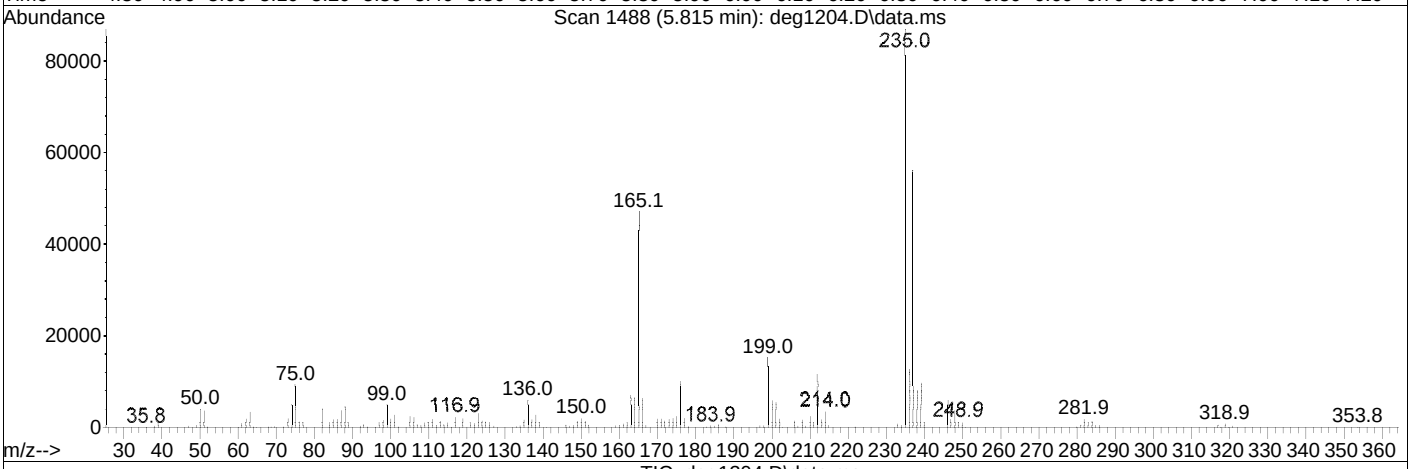
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231204\
Data File : deg1204.D
Acq On : 04 Dec 2023 09:34 am
Operator : SV128:ah
Sample : WG1859432-2,32,, dftpp sv128
Misc : WG1859432,,ical20340
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 04 09:55:25 2023
Quant Method : I:\8270SIM\SV128\231204\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg1204.D\data.ms

(6) ddt (T)

5.815min (-0.199) 7.59

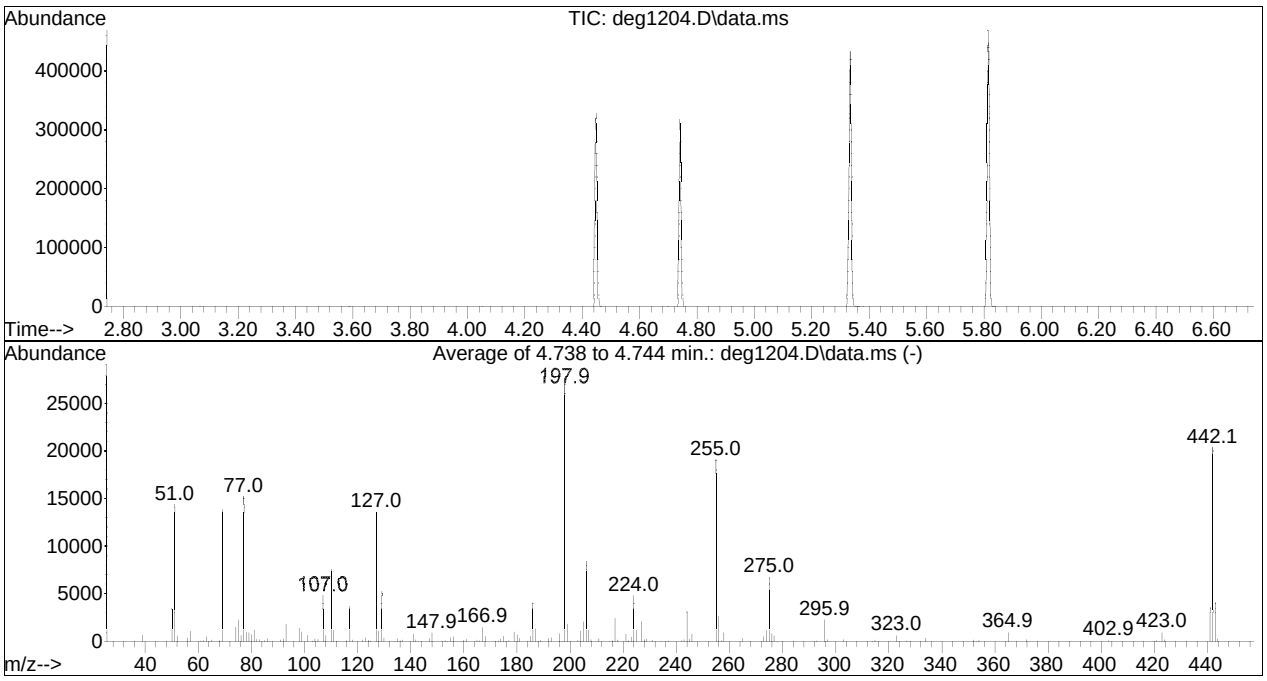
response 46266

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.12
165.10	53.30	53.18
199.10	17.10	17.68

Data Path : I:\8270SIM\SV128\231204\
Data File : deg1204.D
Acq On : 04 Dec 2023 09:34 am
Operator : SV128:ah
Sample : WG1859432-1,32,, dftpp sv128
Misc : WG1859432,,ical20340
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV128\231204\SIM-LVI_230831_sv128.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Dec 04 11:03:51 2023



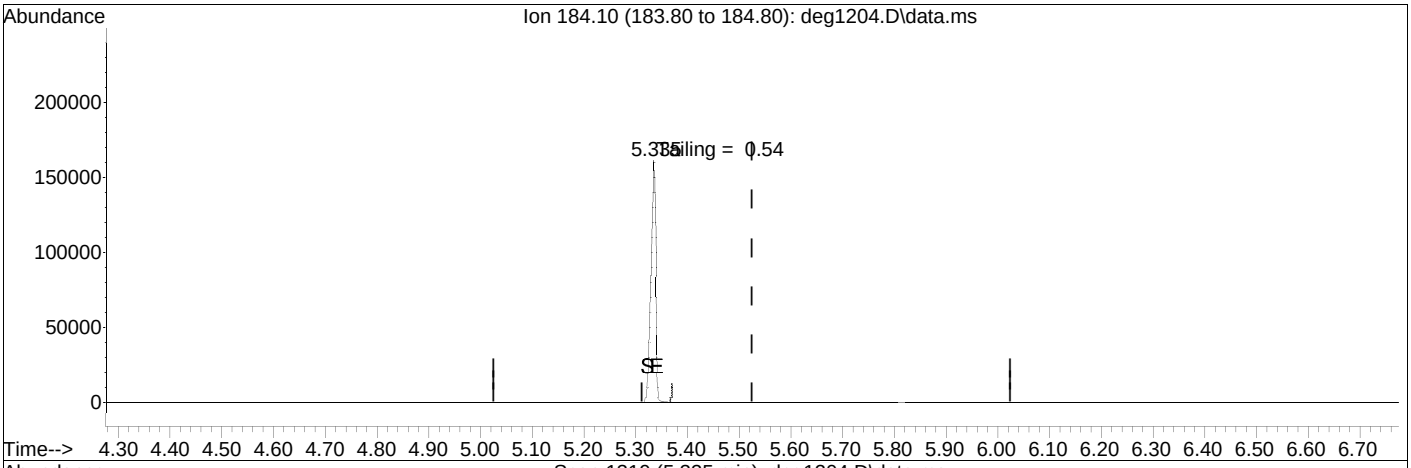
Spectrum Information: Average of 4.738 to 4.744 min.

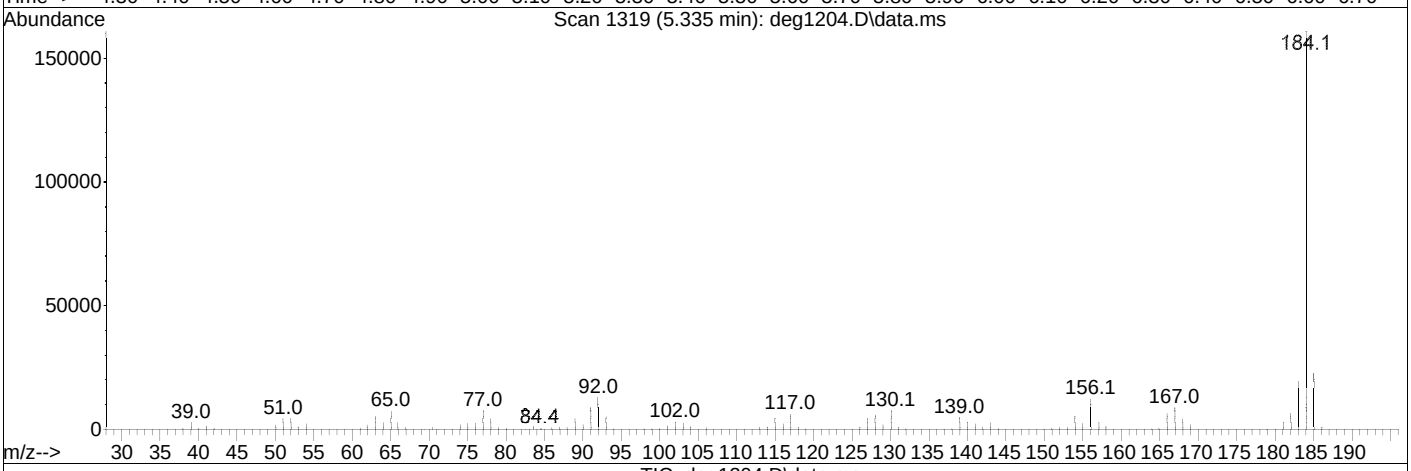
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	51.7	14321	PASS
68	69	0.00	2	1.2	161	PASS
69	69	100	100	100.0	13834	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	49.1	13581	PASS
197	198	0.00	2	0.3	92	PASS
198	198	100	100	100.0	27688	PASS
199	198	5	9	6.6	1825	PASS
275	198	10	60	24.3	6732	PASS
365	198	1	100	3.5	970	PASS
441	442	0.01	24	17.8	3622	PASS
442	198	50	100	73.6	20367	PASS
443	442	15	24	20.4	4162	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231204\
Data File : deg1204.D
Acq On : 04 Dec 2023 09:34 am
Operator : SV128:ah
Sample : WG1859432-4,32,, dftpp sv128
Misc : WG1859432,,ical20340
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 04 09:55:25 2023
Quant Method : I:\8270SIM\SV128\231204\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg1204.D\data.ms

(3) benzidine (T)

5.335min (-0.190) 9.37

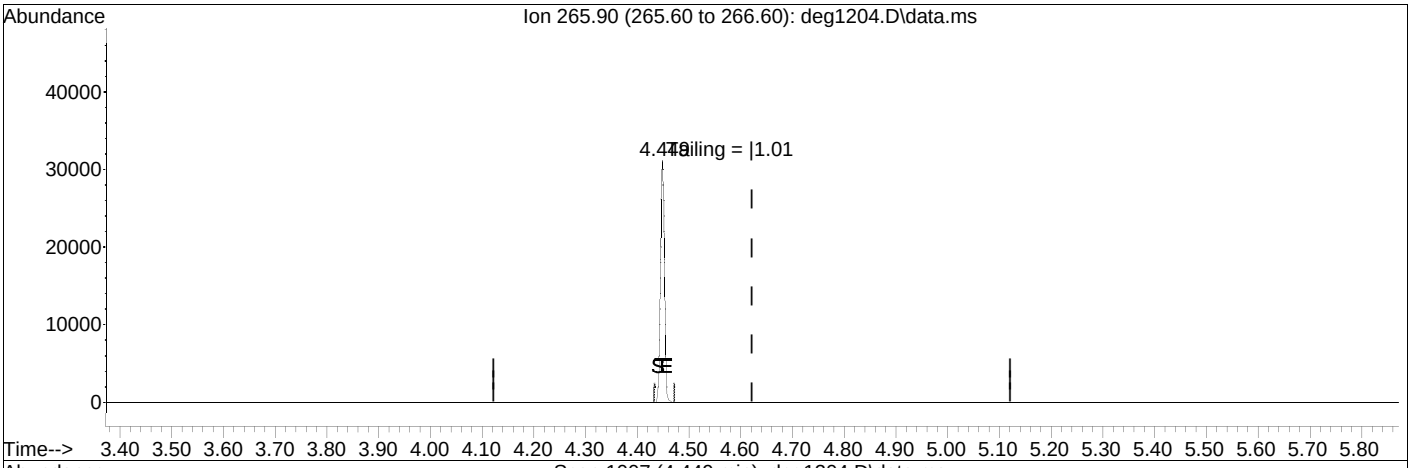
response 95350

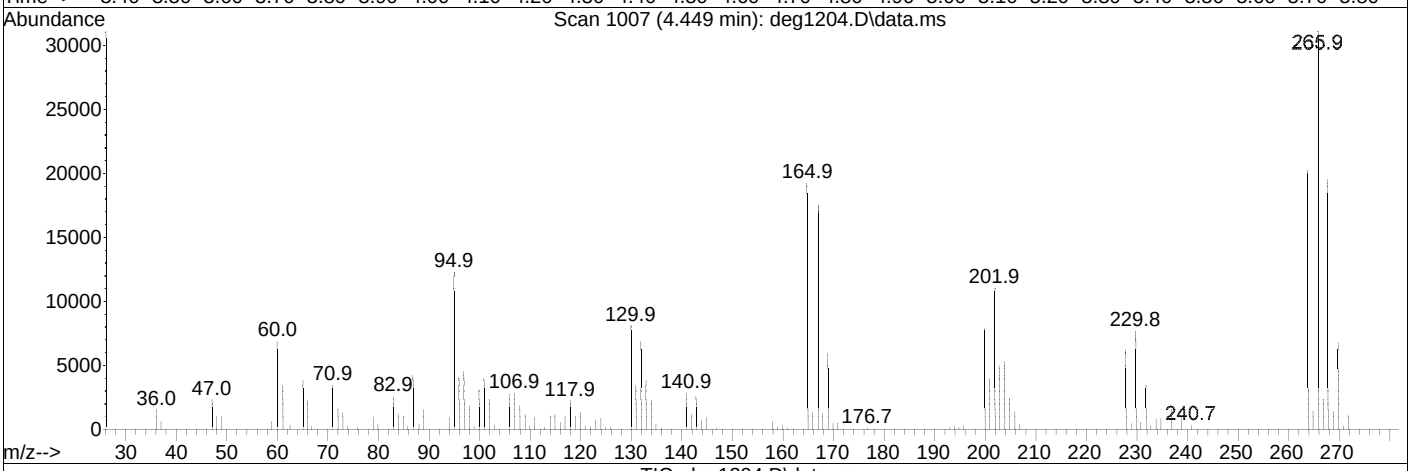
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV128\231204\
Data File : deg1204.D
Acq On : 04 Dec 2023 09:34 am
Operator : SV128:ah
Sample : WG1859432-5,32,, dftpp sv128
Misc : WG1859432,,ical20340
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 04 09:55:25 2023
Quant Method : I:\8270SIM\SV128\231204\dftppsv128.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Nov 10 08:59:52 2023
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D





TIC: deg1204.D\data.ms

(1) pentachlorophenol (T)

4.449min (-0.173) 7.49

response 15728

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 12/04/23 09:57		
Lab File ID	: CCV1204	**Init. Calib. Date(s)**	: 08/31/23	09/05/23	
Sample No	: WG1859432-3	**Init. Calib. Times**	: 09:45	09:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	157	0
2-Fluorophenol	1.022	1.015	.05	0.7	20	151	0
Phenol-d6	1.251	1.21	.05	3.3	20	146	0
Bis(2-chloroethyl)ether	1.078	1.046	.05	3	20	145	0
n-nitrosodi-n-propylamine	0.809	0.725	.05	10.4	20	134	0
Hexachloroethane	0.481	0.497	.05	-3.3	20	158	0
Nitrobenzene-d5	1.06	1.109	.05	-4.6	20	153	0
Naphthalene-d8	1	1	.05	0	20	121	0
Naphthalene	0.977	0.936	.05	4.2	20	112	0
Hexachlorobutadiene	0.184	0.31	.05	-68.5*	20	196	0
2-Methylnaphthalene	0.652	0.604	.05	7.4	20	107	0
1-Methylnaphthalene	0.604	0.594	.05	1.7	20	113	0
2-Fluorobiphenyl	0.82	0.809	.05	1.3	20	114	0
2-Chloronaphthalene	0.676	0.714	.05	-5.6	20	121	0
2,6-Dinitrotoluene	0.135	0.143	.05	-5.9	20	135	0
Acenaphthylene	1.077	1.011	.05	6.1	20	107	0
Acenaphthene-d10	1	1	.05	0	20	119	0
Acenaphthene	1.267	1.136	.05	10.3	20	102	0
2,4-Dinitrotoluene	0.304	0.339	.05	-11.5	20	137	0
Fluorene	1.383	1.279	.05	7.5	20	104	0
2,4,6-Tribromophenol	0.168	0.307	.05	-82.7*	20	206	0
Phenanthrene-d10	1	1	.05	0	20	110	0
4,6-Dinitro-o-cresol	1000	1207.649	.05	-20.8*	20	158	0
Hexachlorobenzene	0.215	0.288	.05	-34*	20	142	0
Pentachlorophenol	1000	967.222	.05	3.3	20	122	0
Phenanthrene	0.997	0.894	.05	10.3	20	96	0
Anthracene	0.971	0.923	.05	4.9	20	100	0
Fluoranthene	1.158	1.096	.05	5.4	20	101	0
Pyrene	1.199	1.175	.05	2	20	103	0
4-Terphenyl-d14	0.845	0.651	.05	23*	20	81	0
Chrysene-d12	1	1	.05	0	20	114	0
Benzo[a]anthracene	1000	907.005	.05	9.3	20	102	0
3,3'-Dichlorobenzidine	0.499	0.506	.05	-1.4	20	119	0
Chrysene	1.234	1.161	.05	5.9	20	104	0
Bis(2-ethylhexyl)phthalate	0.779	0.655	.05	15.9	20	103	0
Perylene-d12	1	1	.05	0	20	125	0
Benzo[b]fluoranthene	1.127	1.08	.05	4.2	20	118	0
Benzo[k]fluoranthene	1.043	0.944	.05	9.5	20	102	0
Benzo[a]pyrene	0.968	0.92	.05	5	20	111	0
Indeno[1,2,3-cd]pyrene	0.969	0.965	.05	0.4	20	124	0
Dibenzo[a,h]anthracene	0.932	0.93	.05	0.2	20	115	0
Benzo[g,h,i]perylene	0.992	1.012	.05	-2	20	125	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV125	**Calibration Date**	: 12/06/23 07:20		
Lab File ID	: CCV1206	**Init. Calib. Date(s)**	: 10/26/23	10/26/23	
Sample No	: WG1860343-3	**Init. Calib. Times**	: 13:22	15:47	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	71	0
2-Fluorophenol	1.015	1.069	.05	-5.3	20	73	0
Phenol-d6	1.174	1.232	.05	-4.9	20	73	0
Bis(2-chloroethyl)ether	1.058	1.011	.05	4.4	20	66	0
n-nitrosodi-n-propylamine	0.64	0.637	.05	0.5	20	71	0
Hexachloroethane	0.48	0.422	.05	12.1	20	63	0
Nitrobenzene-d5	0.912	0.963	.05	-5.6	20	72	0
Naphthalene-d8	1	1	.05	0	20	73	0
Naphthalene	1.004	0.909	.05	9.5	20	65	0
Hexachlorobutadiene	0.181	0.147	.05	18.8	20	59	0
2-Methylnaphthalene	0.645	0.568	.05	11.9	20	63	0
1-Methylnaphthalene	0.601	0.552	.05	8.2	20	66	0
2-Fluorobiphenyl	0.766	0.652	.05	14.9	20	60	0
2-Chloronaphthalene	0.66	0.568	.05	13.9	20	62	0
2,6-Dinitrotoluene	1000	966.584	.05	3.3	20	86	0
Acenaphthylene	0.971	0.904	.05	6.9	20	66	0
Acenaphthene-d10	1	1	.05	0	20	74	0
Acenaphthene	1.298	1.08	.05	16.8	20	62	0
2,4-Dinitrotoluene	1000	1040.127	.05	-4	20	87	0
Fluorene	1.369	1.206	.05	11.9	20	64	0
2,4,6-Tribromophenol	1000	924.602	.05	7.5	20	73	0
Phenanthrene-d10	1	1	.05	0	20	70	0
4,6-Dinitro-o-cresol	1000	1090.185	.05	-9	20	86	0
Hexachlorobenzene	0.231	0.191	.05	17.3	20	57	0
Pentachlorophenol	1000	834.933	.05	16.5	20	55	0
Phenanthrene	0.998	0.899	.05	9.9	20	63	0
Anthracene	0.934	0.867	.05	7.2	20	64	0
Fluoranthene	1.097	1.042	.05	5	20	66	0
Pyrene	1.15	1.109	.05	3.6	20	66	0
4-Terphenyl-d14	0.765	0.675	.05	11.8	20	59	0
Chrysene-d12	1	1	.05	0	20	76	0
Benzo[a]anthracene	1000	917.559	.05	8.2	20	73	0
3,3'-Dichlorobenzene	0.421	0.419	.05	0.5	20	80	0
Chrysene	1.286	1.073	.05	16.6	20	64	0
Bis(2-ethylhexyl)phthalate	1000	1046.316	.05	-4.6	20	92	0
Perylene-d12	1	1	.05	0	20	84	0
Benzo[b]fluoranthene	1.078	1.105	.05	-2.5	20	85	0
Benzo[k]fluoranthene	1.069	0.921	.05	13.8	20	67	0
Benzo[a]pyrene	0.945	0.886	.05	6.2	20	76	0
Indeno[1,2,3-cd]pyrene	0.984	1.017	.05	-3.4	20	86	0
Dibenzo[a,h]anthracene	0.951	0.998	.05	-4.9	20	83	0
Benzo[g,h,i]perylene	1.064	1.052	.05	1.1	20	80	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV125	**Calibration Date**	: 12/07/23 11:43		
Lab File ID	: CCV1207B	**Init. Calib. Date(s)**	: 10/26/23	10/26/23	
Sample No	: WG1861049-3	**Init. Calib. Times**	: 13:22	15:47	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	68	0
2-Fluorophenol	1.015	1.062	.05	-4.6	20	68	0
Phenol-d6	1.174	1.237	.05	-5.4	20	70	0
Bis(2-chloroethyl)ether	1.058	1.01	.05	4.5	20	63	0
n-nitrosodi-n-propylamine	0.64	0.669	.05	-4.5	20	70	0
Hexachloroethane	0.48	0.436	.05	9.2	20	62	0
Nitrobenzene-d5	0.912	1.011	.05	-10.9	20	72	0
Naphthalene-d8	1	1	.05	0	20	70	0
Naphthalene	1.004	0.916	.05	8.8	20	63	0
Hexachlorobutadiene	0.181	0.147	.05	18.8	20	57	0
2-Methylnaphthalene	0.645	0.577	.05	10.5	20	62	0
1-Methylnaphthalene	0.601	0.565	.05	6	20	65	0
2-Fluorobiphenyl	0.766	0.663	.05	13.4	20	59	0
2-Chloronaphthalene	0.66	0.577	.05	12.6	20	61	0
2,6-Dinitrotoluene	1000	1010.471	.05	-1	20	86	0
Acenaphthylene	0.971	0.942	.05	3	20	66	0
Acenaphthene-d10	1	1	.05	0	20	71	0
Acenaphthene	1.298	1.099	.05	15.3	20	61	0
2,4-Dinitrotoluene	1000	1066.493	.05	-6.6	20	86	0
Fluorene	1.369	1.211	.05	11.5	20	62	0
2,4,6-Tribromophenol	1000	906.073	.05	9.4	20	69	0
Phenanthrene-d10	1	1	.05	0	20	65	0
4,6-Dinitro-o-cresol	1000	1088.109	.05	-8.8	20	80	0
Hexachlorobenzene	0.231	0.181	.05	21.6*	20	51	0
Pentachlorophenol	1000	1116.722	.05	-11.7	20	71	0
Phenanthrene	0.998	0.904	.05	9.4	20	59	0
Anthracene	0.934	0.88	.05	5.8	20	60	0
Fluoranthene	1.097	1.003	.05	8.6	20	59	0
Pyrene	1.15	1.048	.05	8.9	20	58	0
4-Terphenyl-d14	0.765	0.611	.05	20.1*	20	50	0
Chrysene-d12	1	1	.05	0	20	60	0
Benzo[a]anthracene	1000	919.357	.05	8.1	20	58	0
3,3'-Dichlorobenzene	0.421	0.444	.05	-5.5	20	68	0
Chrysene	1.286	1.116	.05	13.2	20	53	0
Bis(2-ethylhexyl)phthalate	1000	1275.556	.05	-27.6*	20	91	0
Perylene-d12	1	1	.05	0	20	62	0
Benzo[b]fluoranthene	1.078	1.106	.05	-2.6	20	63	0
Benzo[k]fluoranthene	1.069	0.949	.05	11.2	20	51	0
Benzo[a]pyrene	0.945	0.9	.05	4.8	20	57	0
Indeno[1,2,3-cd]pyrene	0.984	0.977	.05	0.7	20	61	0
Dibenzo[a,h]anthracene	0.951	0.951	.05	0	20	59	0
Benzo[g,h,i]perylene	1.064	0.98	.05	7.9	20	55	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : ccv1206.D
Acq On : 06 Dec 2023 07:20 am
Operator : SV125:jjw
Sample : WG1860343-3,32,,ICV #10193 (1129)
Misc : WG1860343,,ical20477
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 06 07:46:14 2023
Quant Method : I:\8270SIM\SV125\231206LVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:46:05 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	71	0.00
2	T	1,4-Dioxane	0.000	0.000#	0.0	0#	-1.90#
3	s	2-Fluorophenol	1.015	1.069	-5.3	73	0.00
4	s	Phenol-d6	1.174	1.232	-4.9	73	0.00
5	T	Bis(2-chloroethyl)ether	1.058	1.011	4.4	66	0.00
6	T	n-nitrosodi-n-propylamine	0.640	0.637	0.5	71	0.00
7	t	Hexachloroethane	0.480	0.422	12.1	63	0.00
8	s	Nitrobenzene-d5	0.912	0.963	-5.6	72	0.00
9	i	Naphthalene-d8	1.000	1.000	0.0	73	0.00
10	t	Naphthalene	1.004	0.909	9.5	65	0.00
11	t	Hexachlorobutadiene	0.181	0.147	18.8	59	0.00
12	t	2-Methylnaphthalene	0.645	0.568	11.9	63	0.00
13	t	1-Methylnaphthalene	0.601	0.552	8.2	66	0.00
14	s	2-Fluorobiphenyl	0.766	0.652	14.9	60	0.00
15	t	2-Chloronaphthalene	0.660	0.568	13.9	62	0.00
16	t	2,6-Dinitrotoluene	*1000.000	966.584	3.3	86	0.00
17	t	Acenaphthylene	0.971	0.904	6.9	66	0.00
18	i	Acenaphthene-d10	1.000	1.000	0.0	74	0.00
19	t	Acenaphthene	1.298	1.080	16.8	62	0.00
20	t	2,4-Dinitrotoluene	*1000.000	1040.127	-4.0	87	0.00
21	t	Fluorene	1.369	1.206	11.9	64	0.00
22	s	2,4,6-Tribromophenol	*1000.000	924.602	7.5	73	0.00
23	i	Phenanthrene-d10	1.000	1.000	0.0	70	0.00
24	T	4,6-Dinitro-o-cresol	*1000.000	1090.185	-9.0	86	0.00
25	t	Hexachlorobenzene	0.231	0.191	17.3	57	0.00
26	t	Pentachlorophenol	*1000.000	834.933	16.5	55	0.00
27	t	Phenanthrene	0.998	0.899	9.9	63	0.00
28	t	Anthracene	0.934	0.867	7.2	64	0.00
29	t	Fluoranthene	1.097	1.042	5.0	66	0.00
30	t	Pyrene	1.150	1.109	3.6	66	0.00
31	s	4-Terphenyl-d14	0.765	0.675	11.8	59	0.00
32	i	Chrysene-d12	1.000	1.000	0.0	76	0.00
33	t	Benzo[a]anthracene	*1000.000	917.559	8.2	73	0.00
34	t	3,3'-Dichlorobenzene	0.421	0.419	0.5	80	0.00
35	t	Chrysene	1.286	1.073	16.6	64	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : ccv1206.D
Acq On : 06 Dec 2023 07:20 am
Operator : SV125:jjw
Sample : WG1860343-3,32,,ICV #10193 (1129)
Misc : WG1860343,,ical20477
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 06 07:46:14 2023
Quant Method : I:\8270SIM\SV125\231206LVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:46:05 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	T	Bis(2-ethylhexyl)phthalate	*1000.000	1046.316	-4.6	92	0.00
37	i	Perylene-d12	1.000	1.000	0.0	84	0.00
38	t	Benzo[b]fluoranthene	1.078	1.105	-2.5	85	0.00
39	t	Benzo[k]fluoranthene	1.069	0.921	13.8	67	0.00
40	t	Benzo[a]pyrene	0.945	0.886	6.2	76	0.00
41	t	Indeno[1,2,3-cd]pyrene	0.984	1.017	-3.4	86	0.00
42	t	Dibenzo[a,h]anthracene	0.951	0.998	-4.9	83	0.00
43	t	Benzo[g,h,i]perylene	1.064	1.052	1.1	80	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : ccv1206.D
Acq On : 06 Dec 2023 07:20 am
Operator : SV125:jjw
Sample : WG1860343-3,32,,ICV #10193 (1129)
Misc : WG1860343,,ical20477
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 06 07:46:14 2023
Quant Method : I:\8270SIM\SV125\231206LVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:46:05 2023
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.966	152	37043	4000.000	ng/ml	0.00
9) Naphthalene-d8	2.637	136	139573	4000.000	ng/ml	0.00
18) Acenaphthene-d10	3.618	164	77260	4000.000	ng/ml	0.00
23) Phenanthrene-d10	4.453	188	163874	4000.000	ng/ml	0.00
32) Chrysene-d12	5.968	240	166022	4000.000	ng/ml	0.00
37) Perylene-d12	6.973	264	202112	4000.000	ng/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	1.368	112	9900	1053.666	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.07%			
4) Phenol-d6	1.789	99	11412	1049.894	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.00%			
8) Nitrobenzene-d5	2.253	82	8919	1055.755	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 42.23%			
14) 2-Fluorobiphenyl	3.244	172	22736	850.603	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 34.02%			
22) 2,4,6-Tribromophenol	4.064	330	3543	924.602	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 18.49%			
31) 4-Terphenyl-d14	5.368	244	27659	882.779	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 35.31%			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	1.835	93	9359	954.930	ng/ml	98
6) n-nitrosodi-n-propylamine	2.176	70	5895	994.997	ng/ml	97
7) Hexachloroethane	2.225	117	3910	879.732	ng/ml	97
10) Naphthalene	2.646	128	31706	904.975	ng/ml#	100
11) Hexachlorobutadiene	2.725	225	5114	809.630	ng/ml	100
12) 2-Methylnaphthalene	3.033	142	19808	880.739	ng/ml	100
13) 1-Methylnaphthalene	3.086	142	19259	919.019	ng/ml	100
15) 2-Chloronaphthalene	3.304	162	19807	860.327	ng/ml	95
16) 2,6-Dinitrotoluene	3.508	165	4512	966.584	ng/ml	91
17) Acenaphthylene	3.535	152	31536	930.569	ng/ml	100
19) Acenaphthene	3.636	153	20853	831.760	ng/ml	98
20) 2,4-Dinitrotoluene	3.734	165	6060	1040.127	ng/ml	87
21) Fluorene	3.927	166	23293	880.905	ng/ml	100
24) 4,6-Dinitro-o-cresol	3.963	198	3037	1090.185	ng/ml#	86
25) Hexachlorobenzene	4.243	284	7816	826.764	ng/ml	99
26) Pentachlorophenol	4.355	266	3176	834.933	ng/ml	99
27) Phenanthrene	4.464	178	36831	900.838	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : ccv1206.D
Acq On : 06 Dec 2023 07:20 am
Operator : SV125:jjw
Sample : WG1860343-3,32,,ICV #10193 (1129)
Misc : WG1860343,,ical20477
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 06 07:46:14 2023
Quant Method : I:\8270SIM\SV125\231206LVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:46:05 2023
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Anthracene	4.494	178	35521	928.189	ng/ml	100
29) Fluoranthene	5.138	202	42676	949.230	ng/ml	95
30) Pyrene	5.263	202	45427	964.425	ng/ml	99
33) Benzo[a]anthracene	5.963	228	47659	917.559	ng/ml	100
34) 3,3'-Dichlorobenzene	5.960	252	17381	994.769	ng/ml#	97
35) Chrysene	5.982	228	44532	834.040	ng/ml	99
36) Bis(2-ethylhexyl)phtha...	6.012	149	24718	1046.316	ng/ml	99
38) Benzo[b]fluoranthene	6.668	252	55827	1024.995	ng/ml	100
39) Benzo[k]fluoranthene	6.687	252	46519	860.869	ng/ml	100
40) Benzo[a]pyrene	6.922	252	44770	937.704	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	7.990	276	51399	1034.267	ng/ml	92
42) Dibenzo[a,h]anthracene	8.026	278	50434M6	1049.081	ng/ml	
43) Benzo[g,h,i]perylene	8.277	276	53132	988.550	ng/ml	92

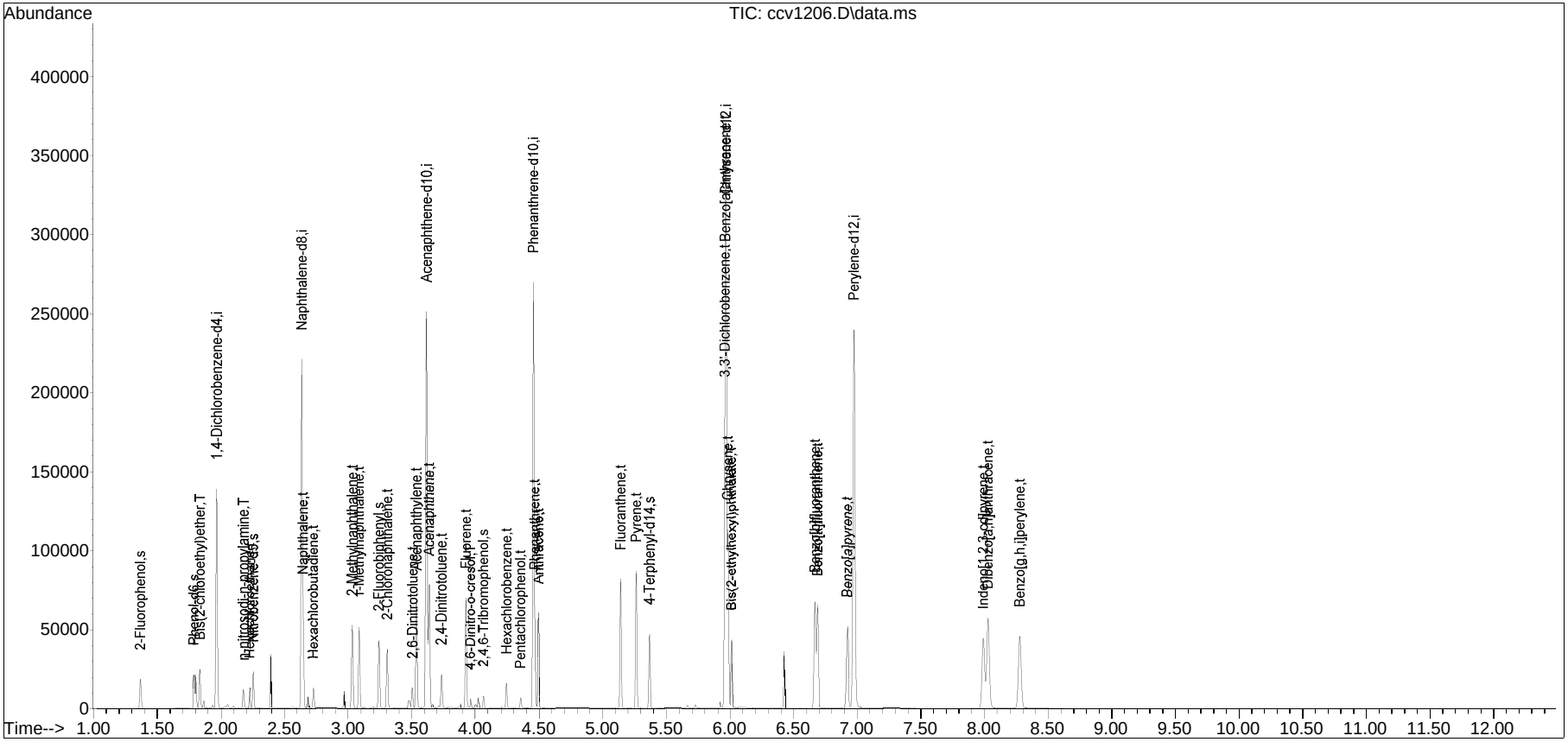
(#) = qualifier out of range (m) = manual integration (+) = signals summed

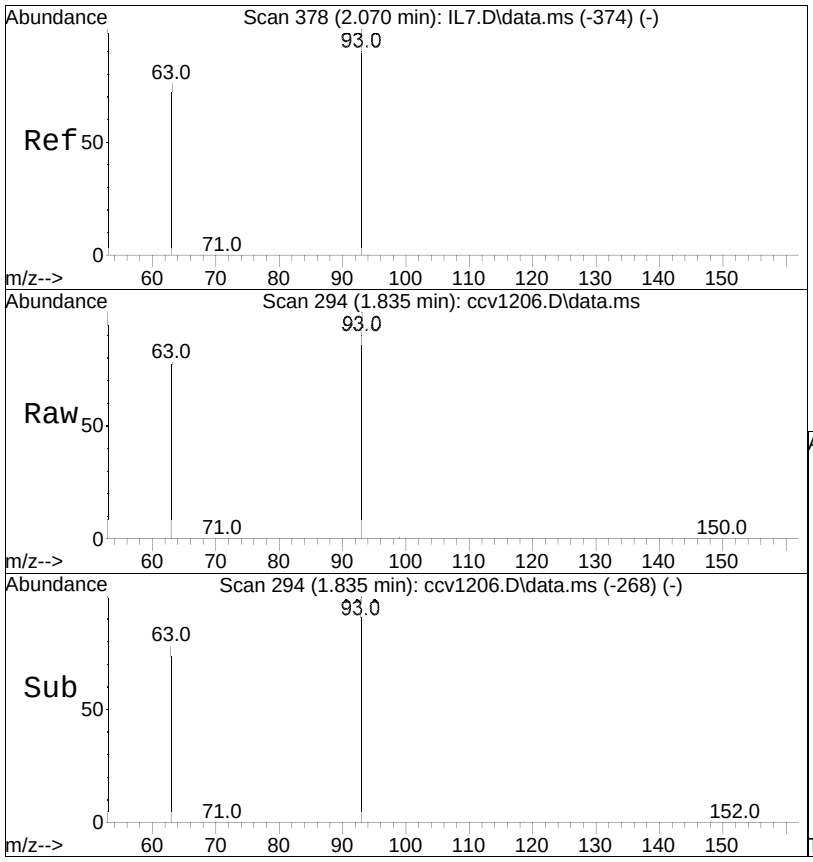
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : ccv1206.D
Acq On : 06 Dec 2023 07:20 am
Operator : SV125:jjw
Sample : WG1860343-3,32,,ICV #10193 (1129)
Misc : WG1860343,,ical20477
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 06 07:46:14 2023
Quant Method : I:\8270SIM\SV125\231206LVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:46:05 2023
Response via : Initial Calibration

Sub List : Default - All compounds listed

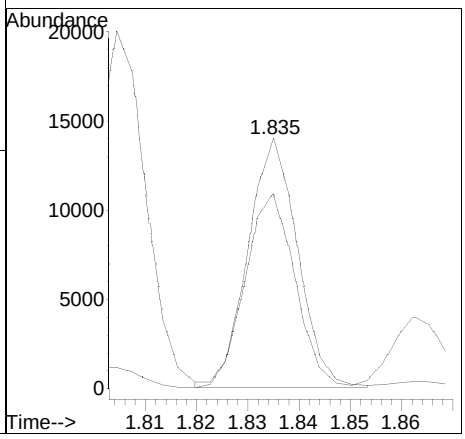


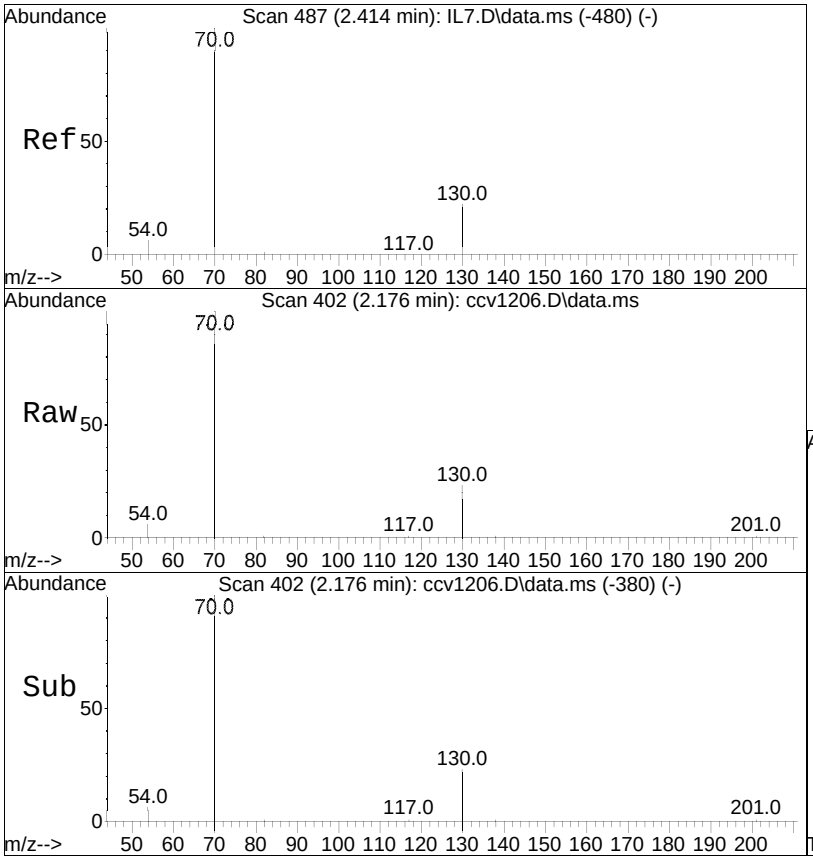


#5
Bis(2-chloroethyl)ether
Concen: 954.93 ng/ml
RT: 1.835 min Scan# 294
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion: 93 Resp: 9359

Ion	Ratio	Lower	Upper
93	100		
63	78.5	61.3	91.9

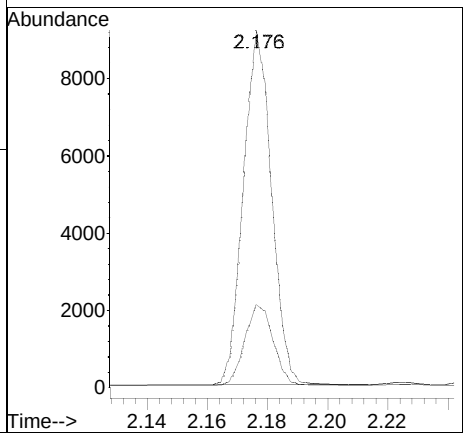


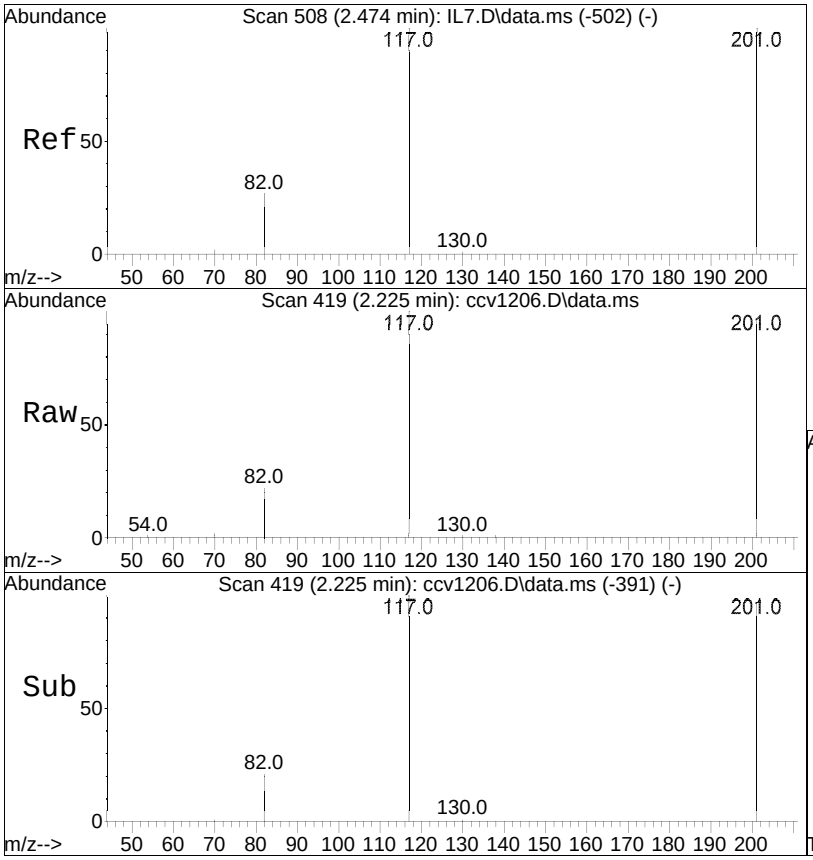


#6
n-nitrosodi-n-propylamine
Concen: 995.00 ng/ml
RT: 2.176 min Scan# 402
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion: 70 Resp: 5895

Ion	Ratio	Lower	Upper
70	100		
130	23.2	17.6	26.4

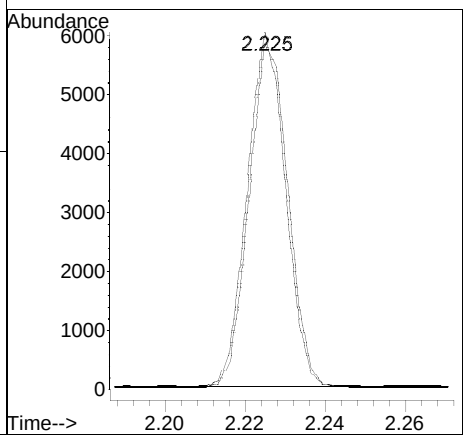


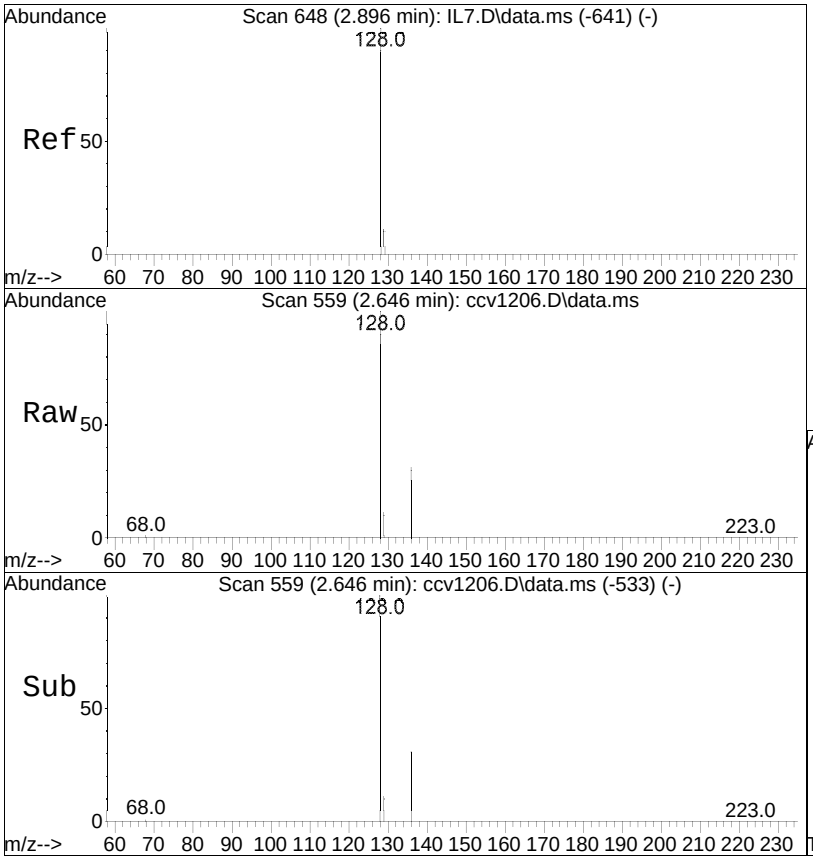


#7
Hexachloroethane
Concen: 879.73 ng/ml
RT: 2.225 min Scan# 419
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:117 Resp: 3910

Ion	Ratio	Lower	Upper
117	100		
201	99.6	81.9	122.9

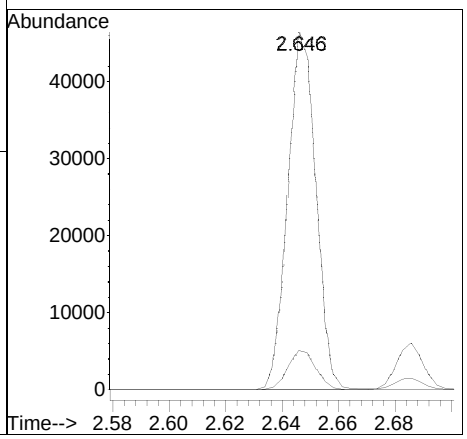


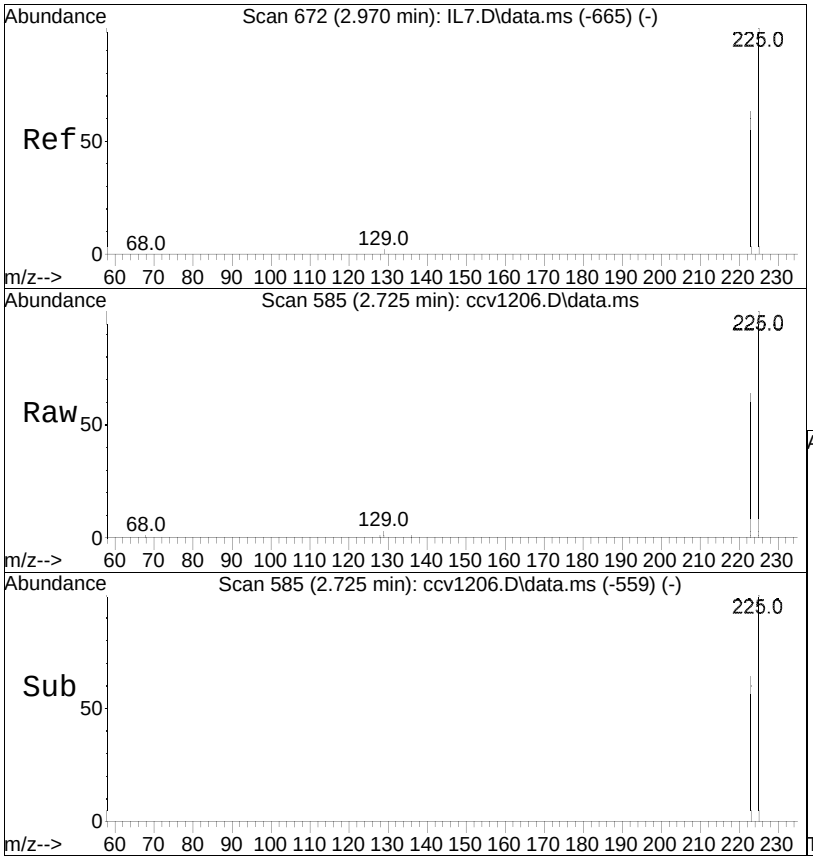


#10
Naphthalene
Concen: 904.98 ng/ml
RT: 2.646 min Scan# 559
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:128 Resp: 31706

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	0.0	0.0	0.0

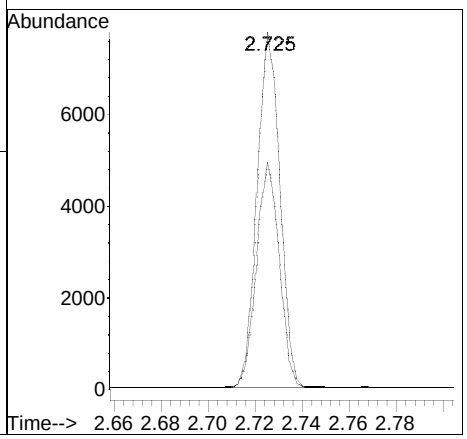


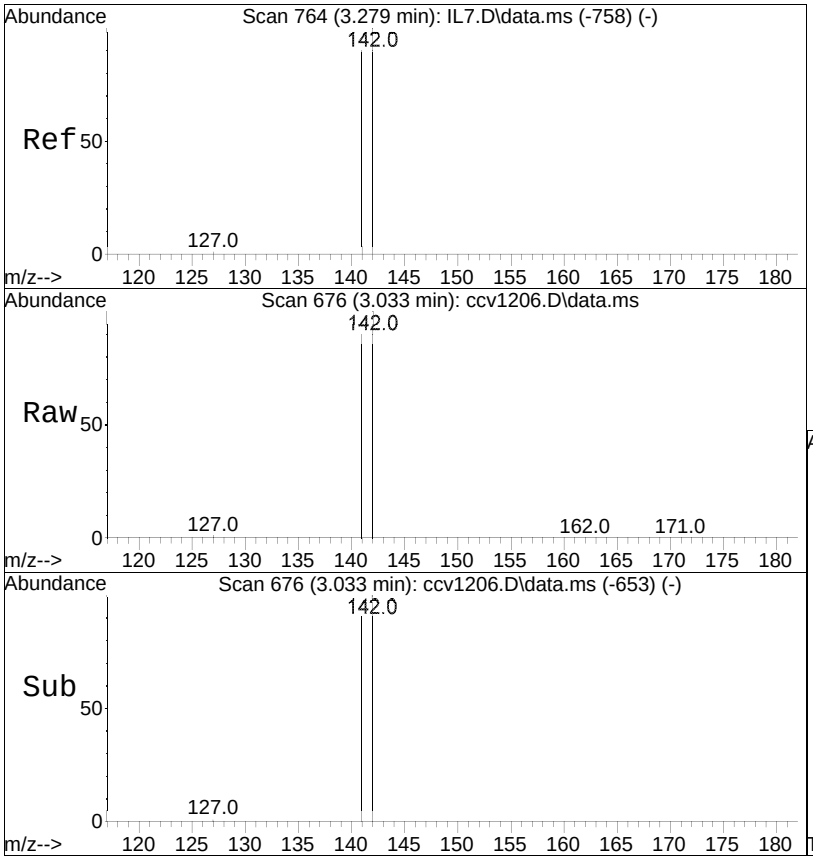


#11
Hexachlorobutadiene
Concen: 809.63 ng/ml
RT: 2.725 min Scan# 585
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:225 Resp: 5114

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.2	75.2

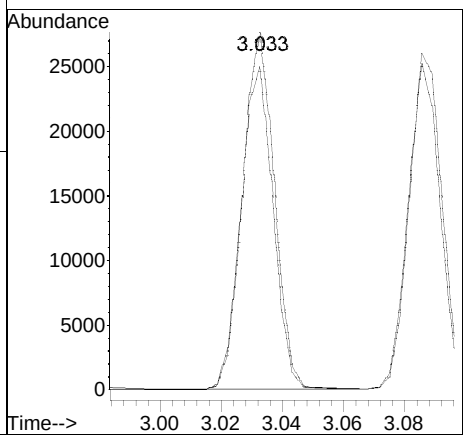


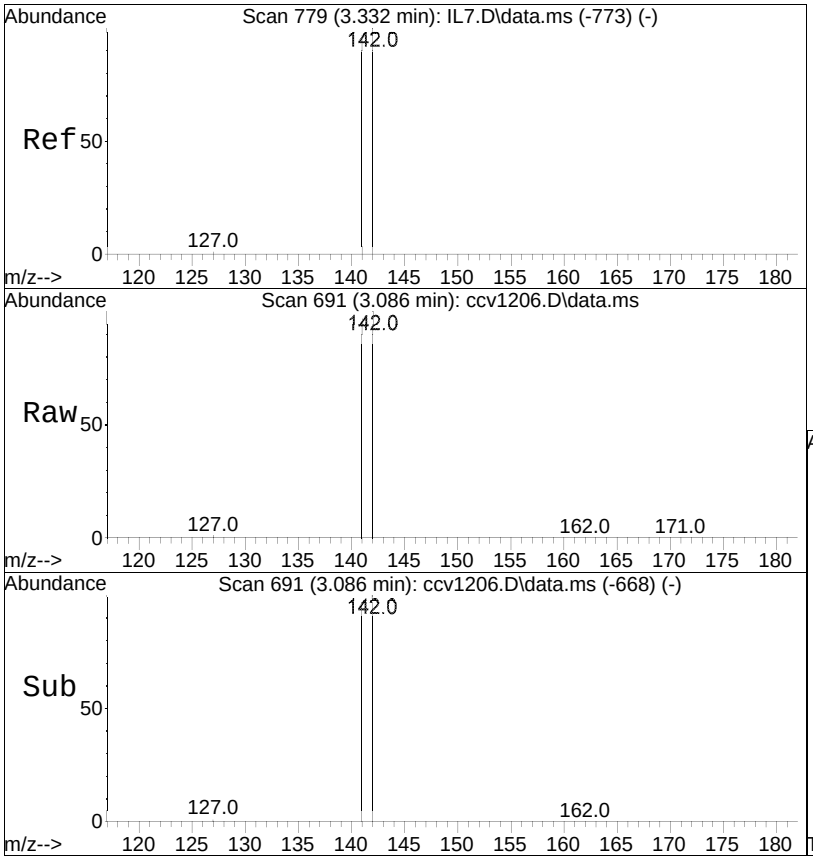


#12
2-Methylnaphthalene
Concen: 880.74 ng/ml
RT: 3.033 min Scan# 676
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:142 Resp: 19808

Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.6	110.4

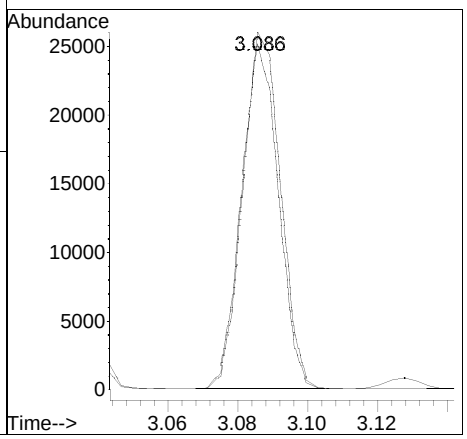


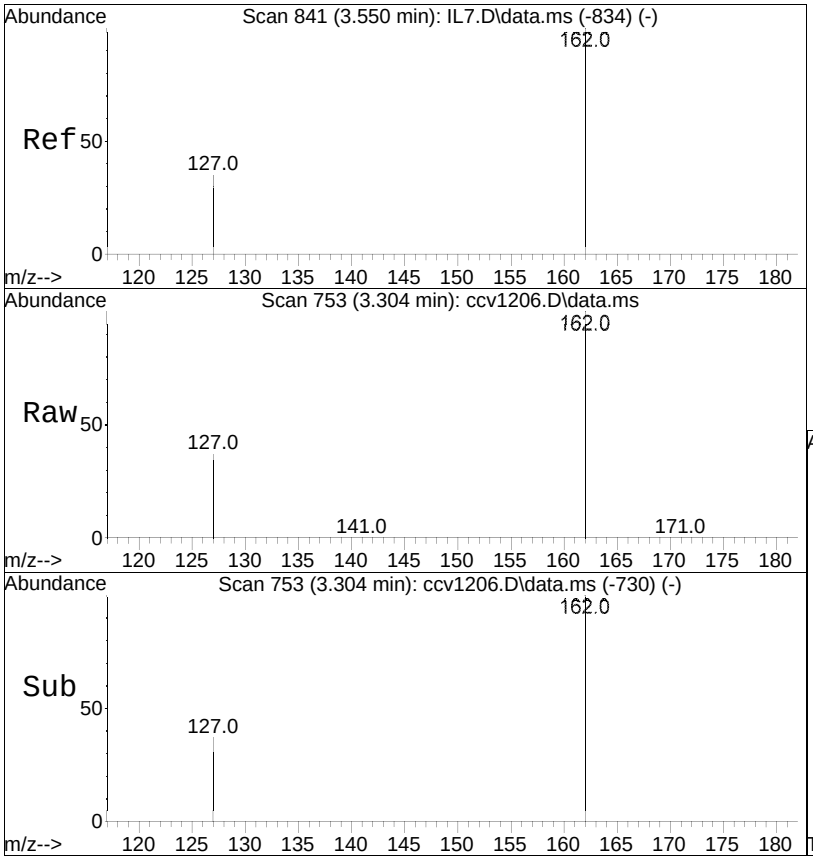


#13
1-Methylnaphthalene
Concen: 919.02 ng/ml
RT: 3.086 min Scan# 691
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:142 Resp: 19259

Ion	Ratio	Lower	Upper
142	100		
141	95.1	76.1	114.1

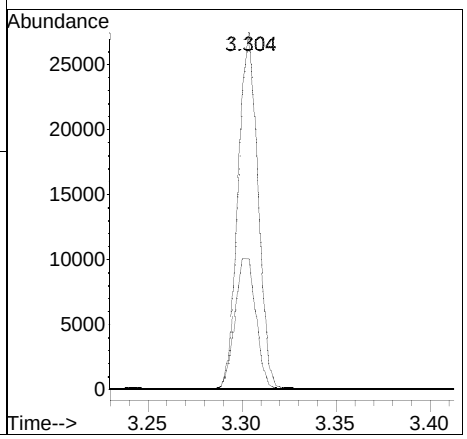


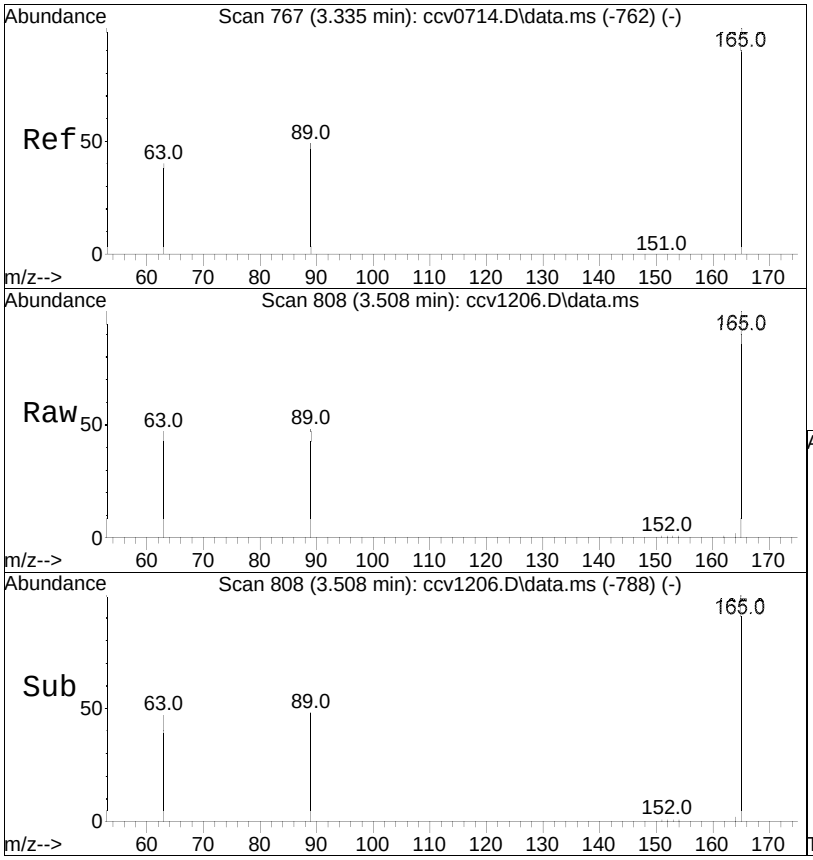


#15
2-Chloronaphthalene
Concen: 860.33 ng/ml
RT: 3.304 min Scan# 753
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:162 Resp: 19807

Ion	Ratio	Lower	Upper
162	100		
127	39.1	29.1	43.7

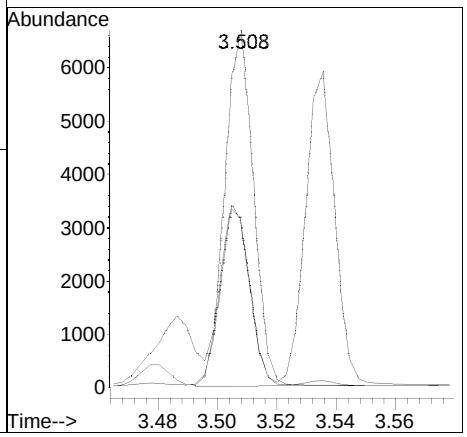


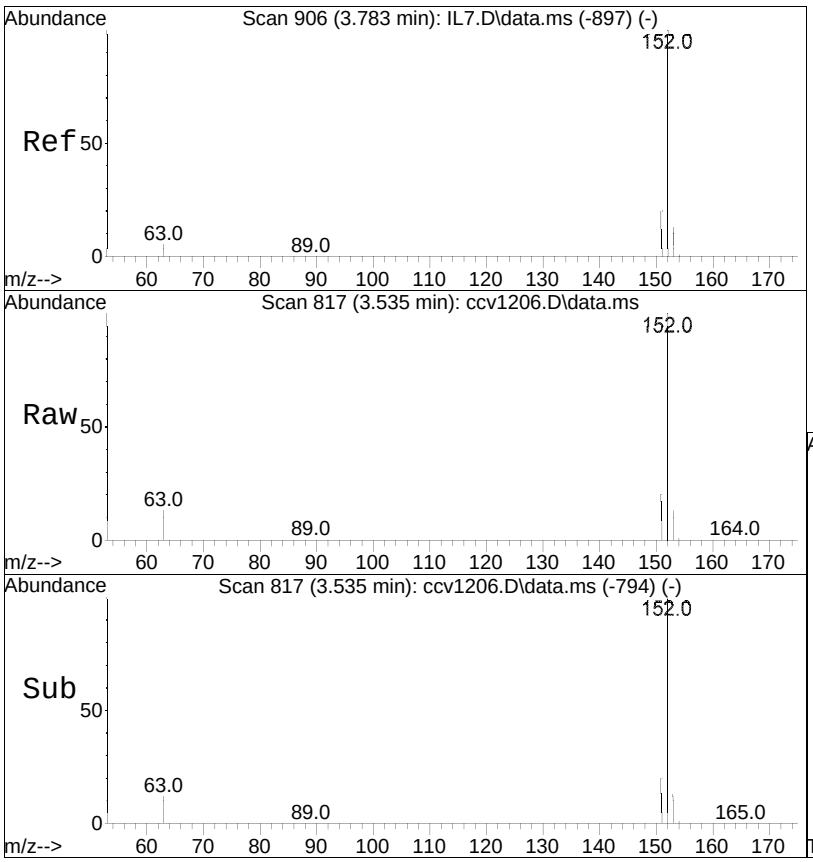


#16
2,6-Dinitrotoluene
Concen: 966.58 ng/ml
RT: 3.508 min Scan# 808
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:165 Resp: 4512

Ion	Ratio	Lower	Upper
165	100		
89	51.4	47.8	71.6
63	51.1	45.2	67.8

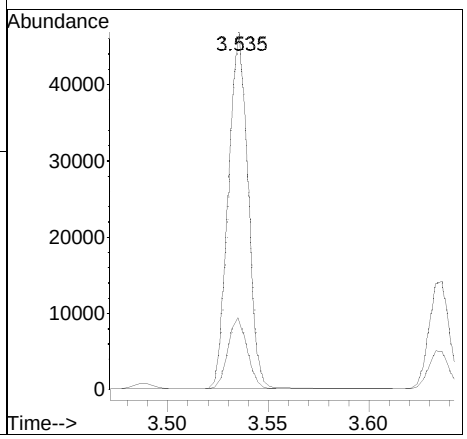


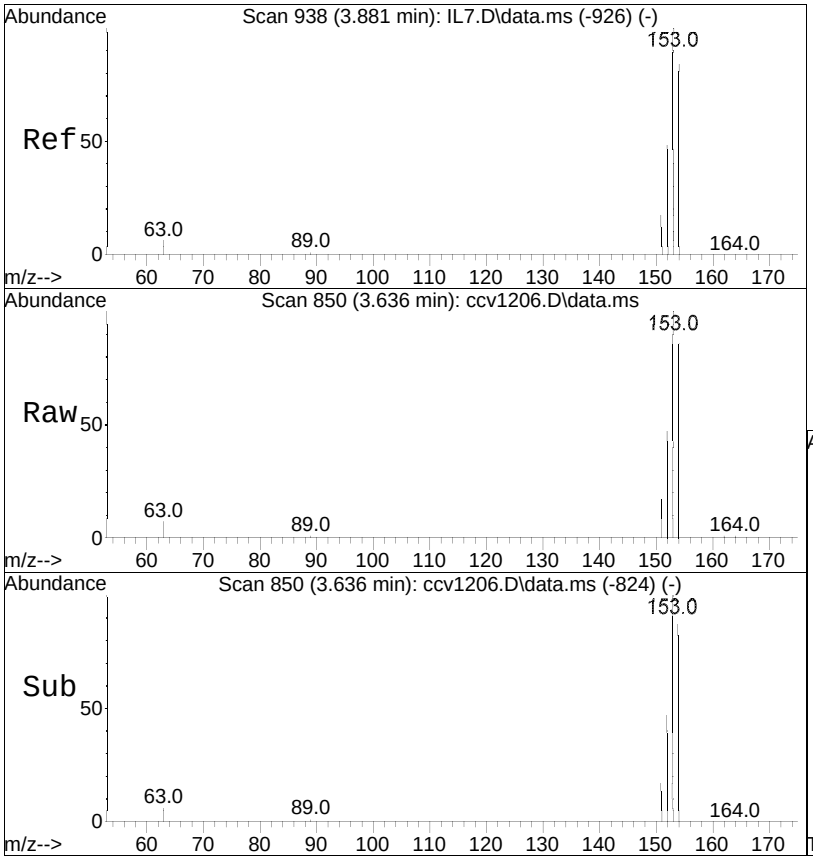


#17
Acenaphthylene
Concen: 930.57 ng/ml
RT: 3.535 min Scan# 817
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:152 Resp: 31536

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8

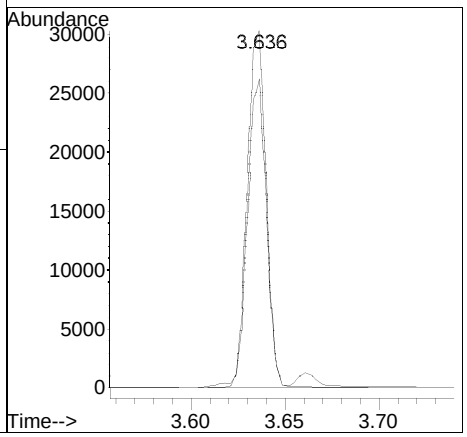


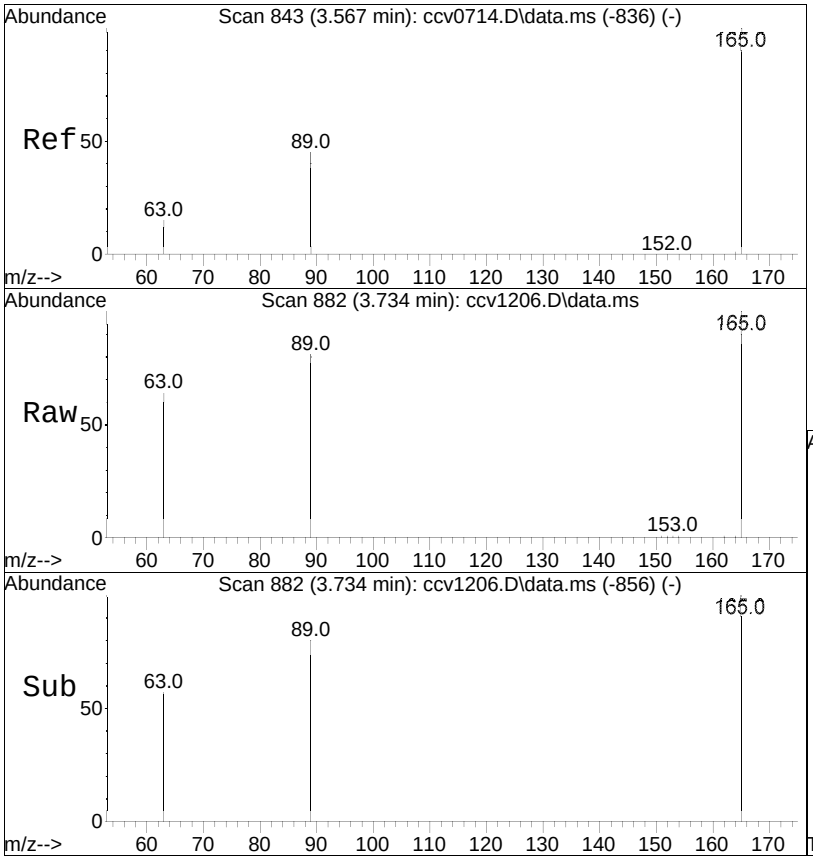


#19
Acenaphthene
Concen: 831.76 ng/ml
RT: 3.636 min Scan# 850
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:153 Resp: 20853

Ion	Ratio	Lower	Upper
153	100		
154	86.9	70.8	106.2

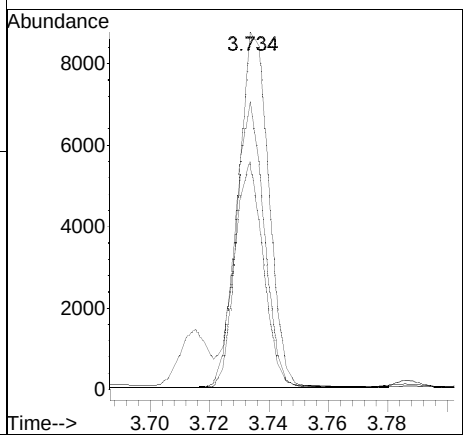


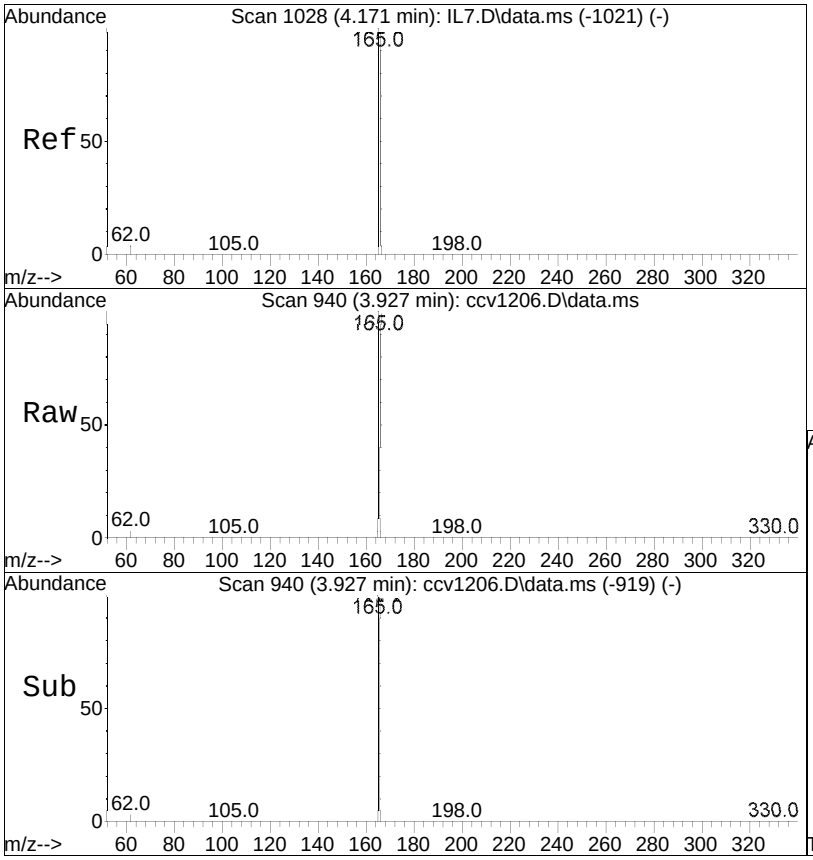


#20
2,4-Dinitrotoluene
Concen: 1040.13 ng/ml
RT: 3.734 min Scan# 882
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:165 Resp: 6060

Ion	Ratio	Lower	Upper
165	100		
89	77.4	71.2	106.8
63	61.8	59.4	89.0

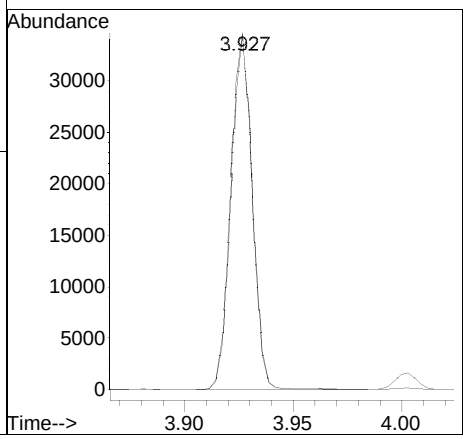


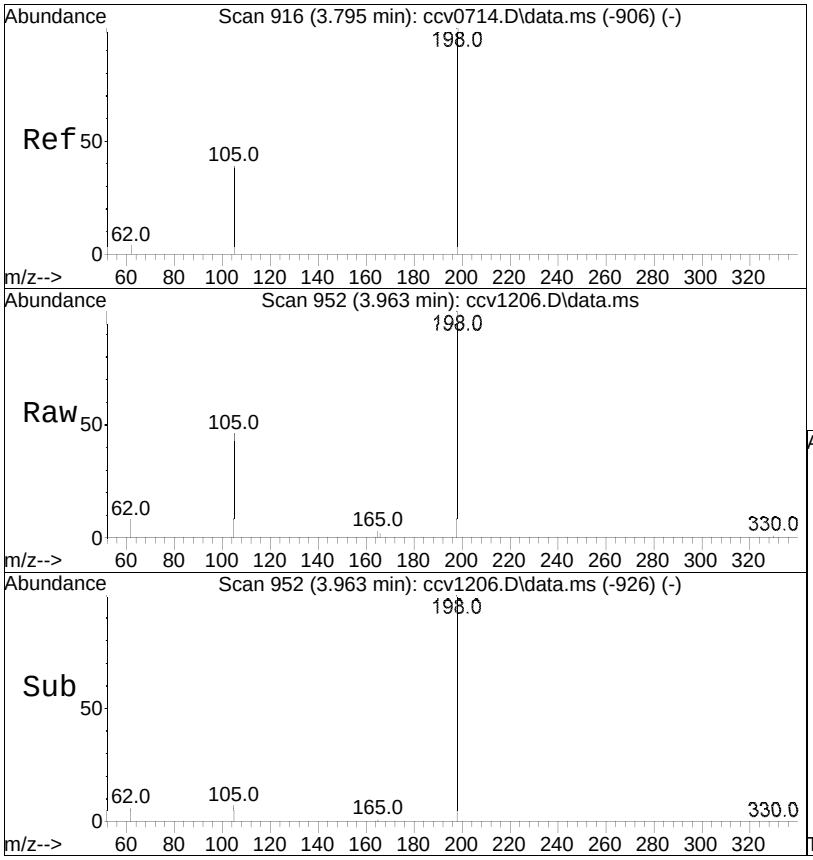


#21
Fluorene
Concen: 880.90 ng/ml
RT: 3.927 min Scan# 940
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:166 Resp: 23293

Ion	Ratio	Lower	Upper
166	100		
165	100.7	81.0	121.4

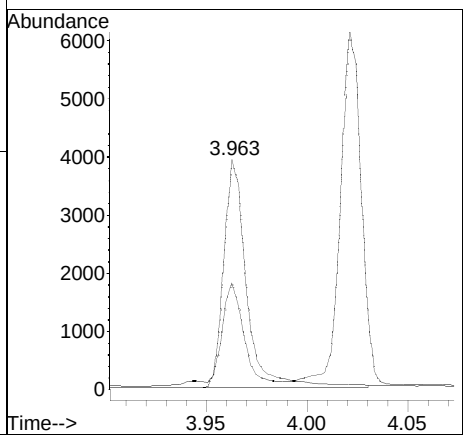


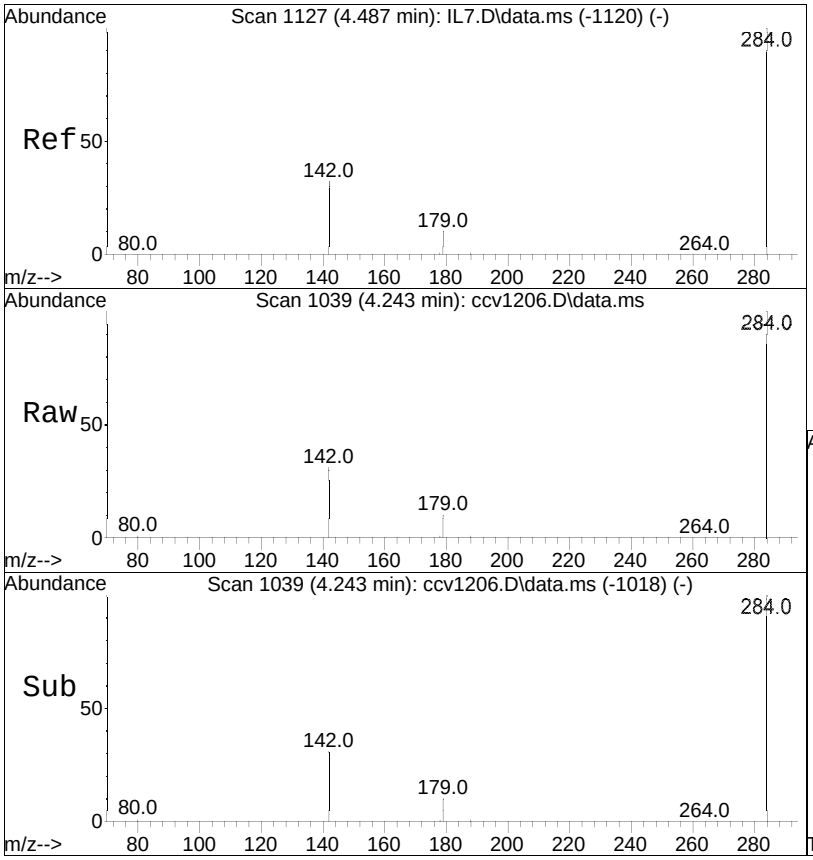


#24
4,6-Dinitro-o-cresol
Concen: 1090.18 ng/ml
RT: 3.963 min Scan# 952
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:198 Resp: 3037

Ion	Ratio	Lower	Upper
198	100		
105	45.6	29.6	44.4#

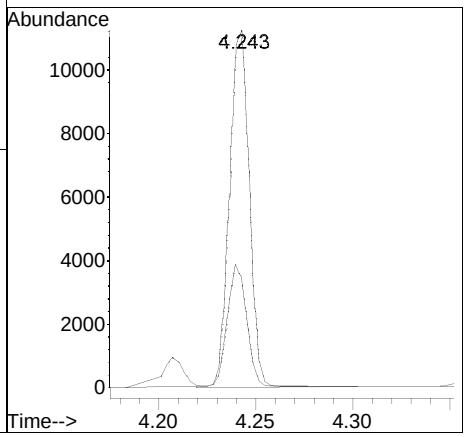


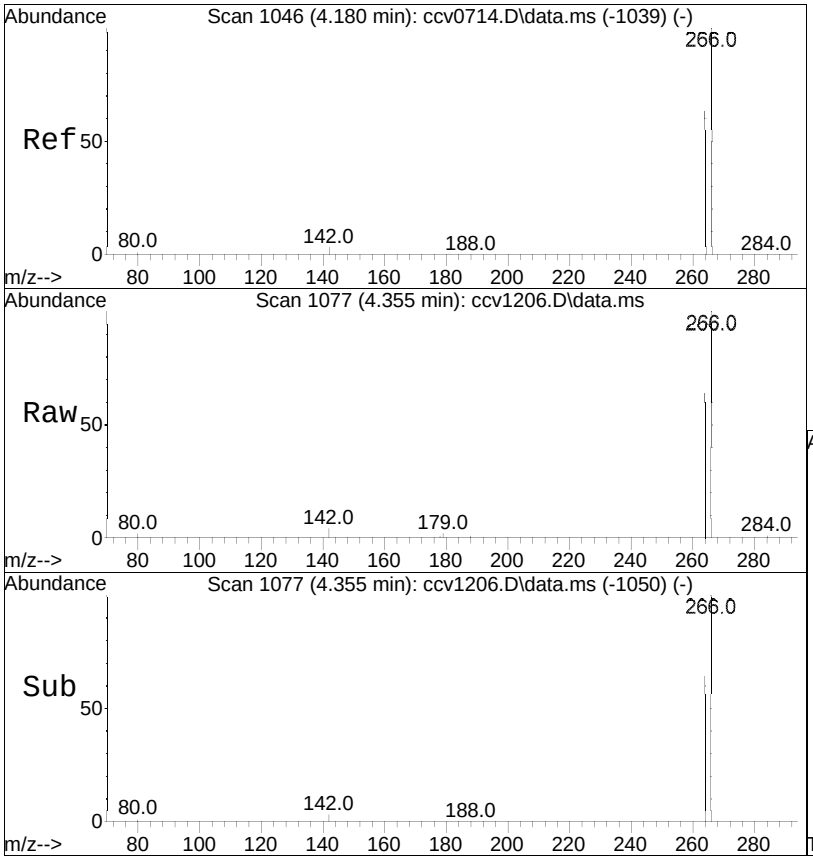


#25
Hexachlorobenzene
Concen: 826.76 ng/ml
RT: 4.243 min Scan# 1039
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:284 Resp: 7816

Ion	Ratio	Lower	Upper
284	100		
142	33.9	27.7	41.5

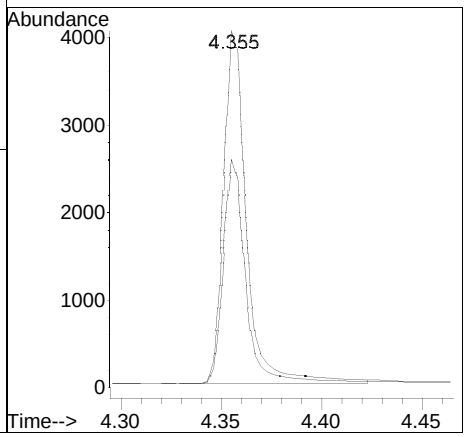


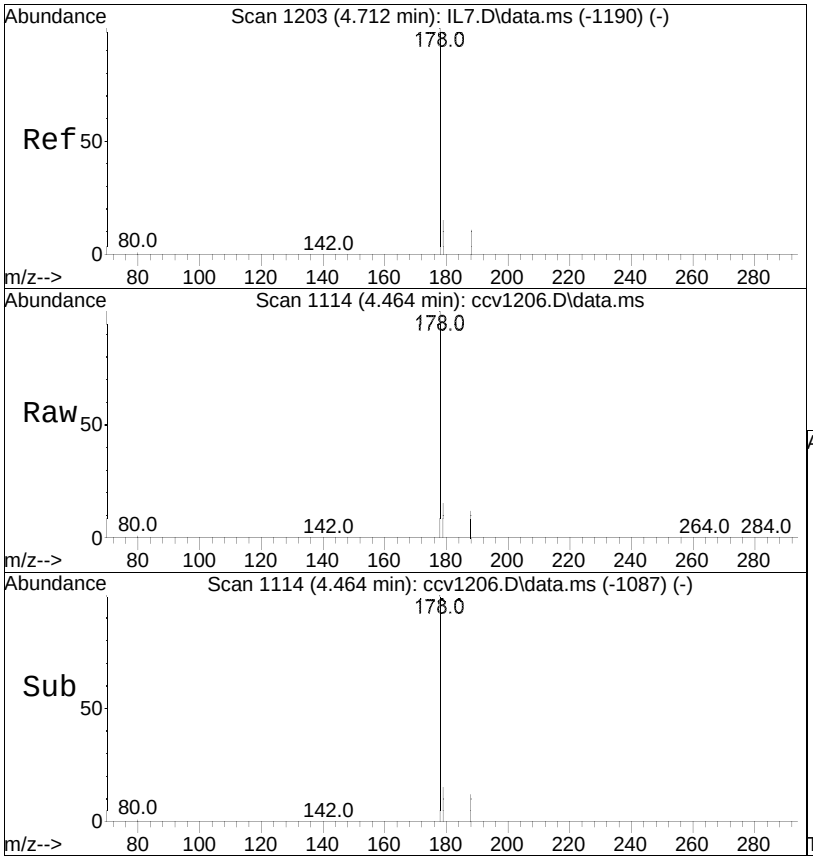


#26
Pentachlorophenol
Concen: 834.93 ng/ml
RT: 4.355 min Scan# 1077
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:266 Resp: 3176

Ion	Ratio	Lower	Upper
266	100		
264	62.4	50.9	76.3

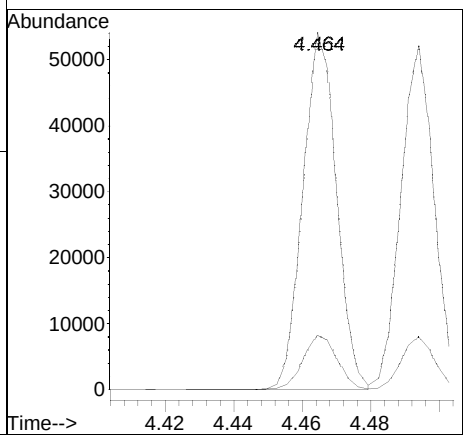


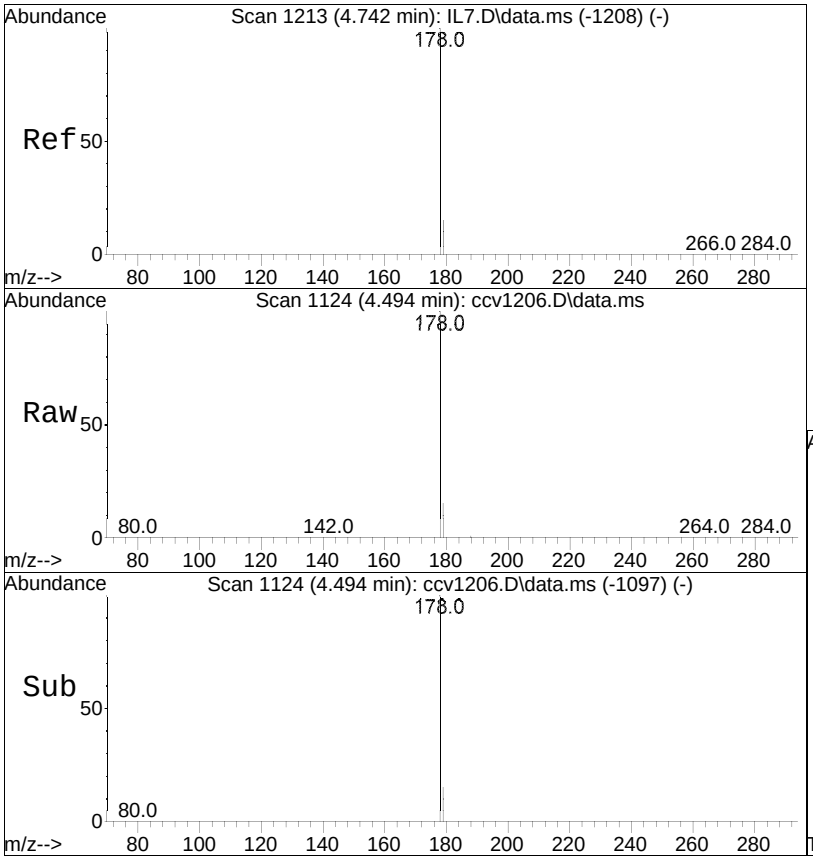


#27
Phenanthrene
Concen: 900.84 ng/ml
RT: 4.464 min Scan# 1114
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:178 Resp: 36831

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

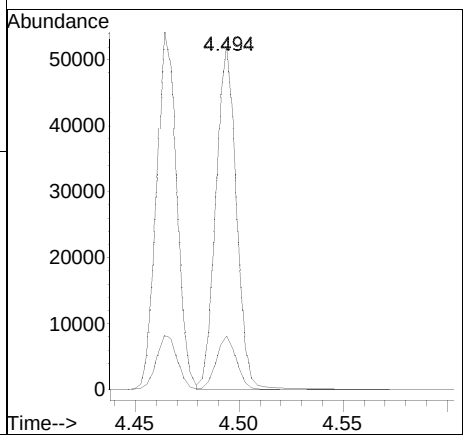


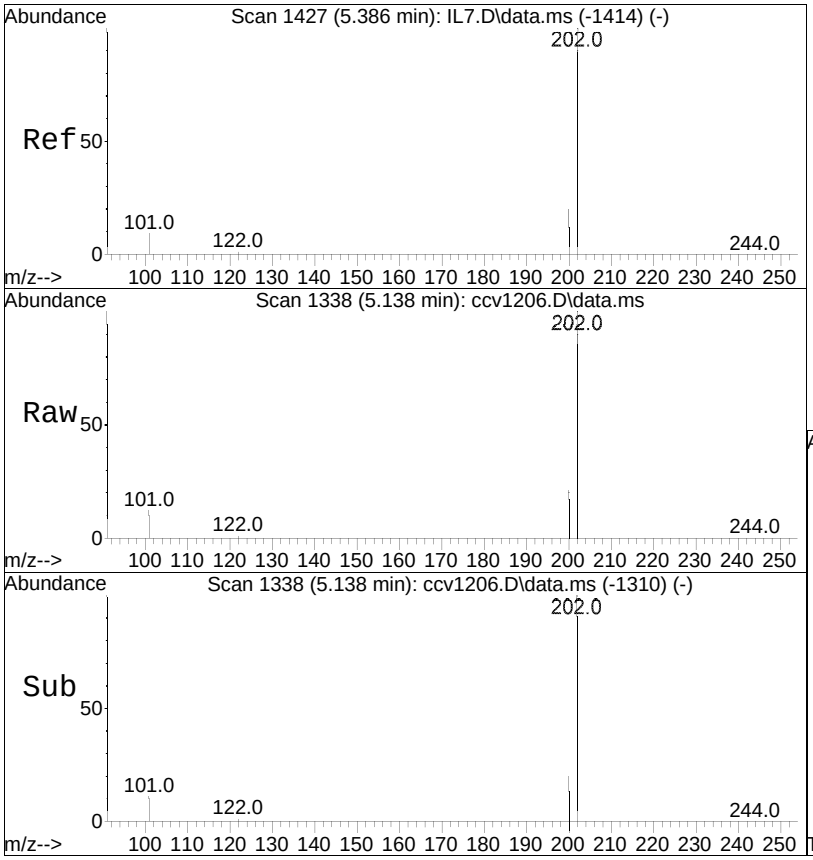


#28
Anthracene
Concen: 928.19 ng/ml
RT: 4.494 min Scan# 1124
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:178 Resp: 35521

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

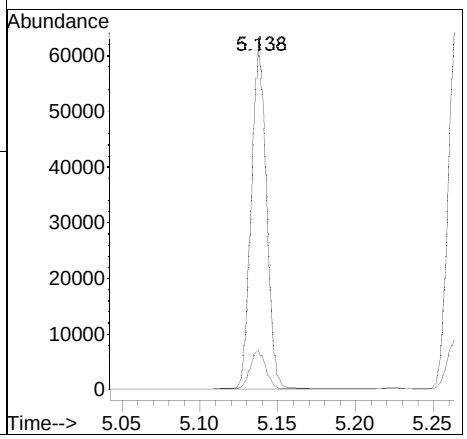


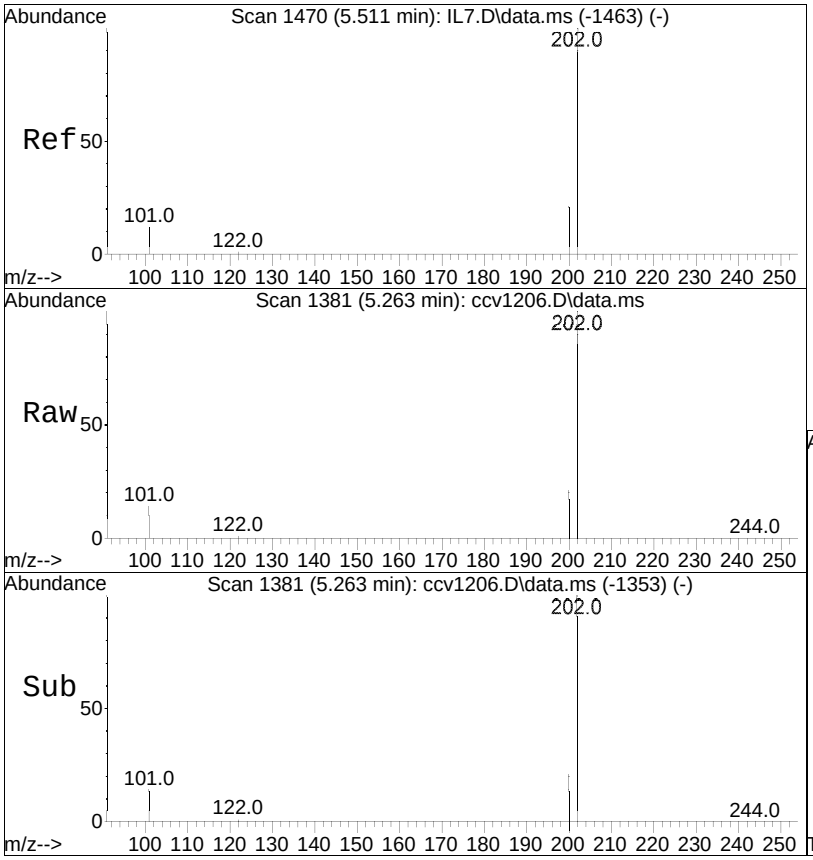


#29
Fluoranthene
Concen: 949.23 ng/ml
RT: 5.138 min Scan# 1338
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:202 Resp: 42676

Ion	Ratio	Lower	Upper
202	100		
101	11.7	7.8	11.8

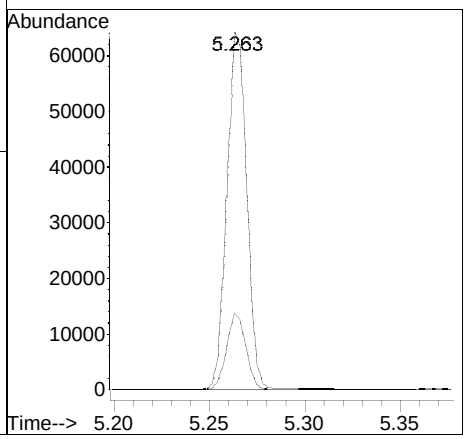


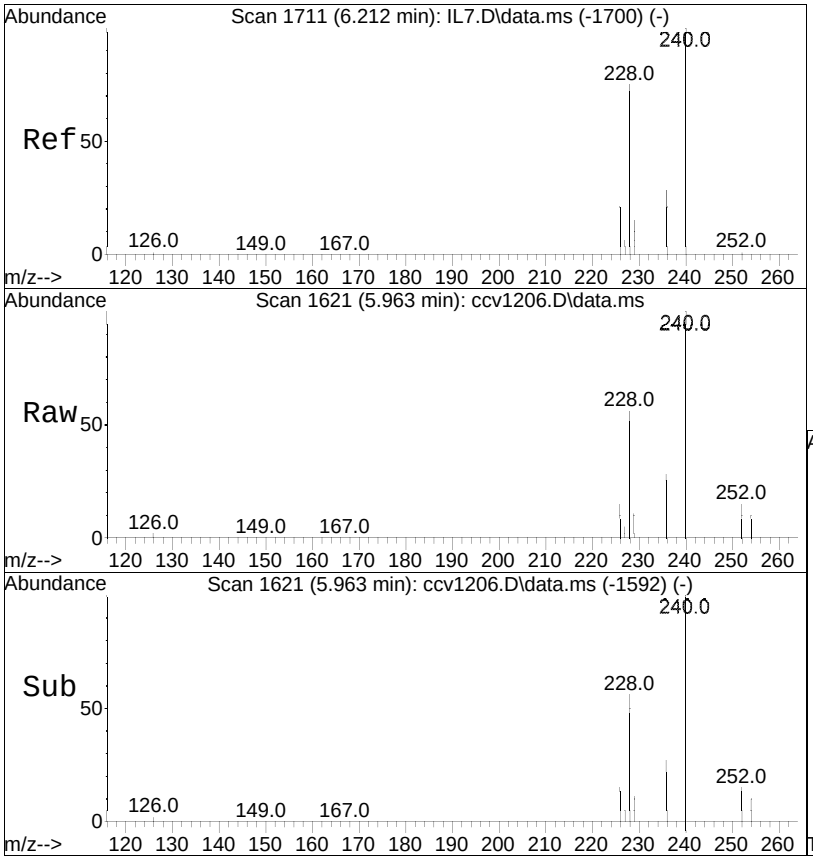


#30
Pyrene
Concen: 964.42 ng/ml
RT: 5.263 min Scan# 1381
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:202 Resp: 45427

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4

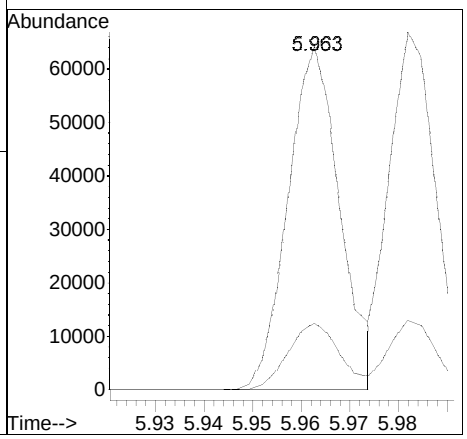


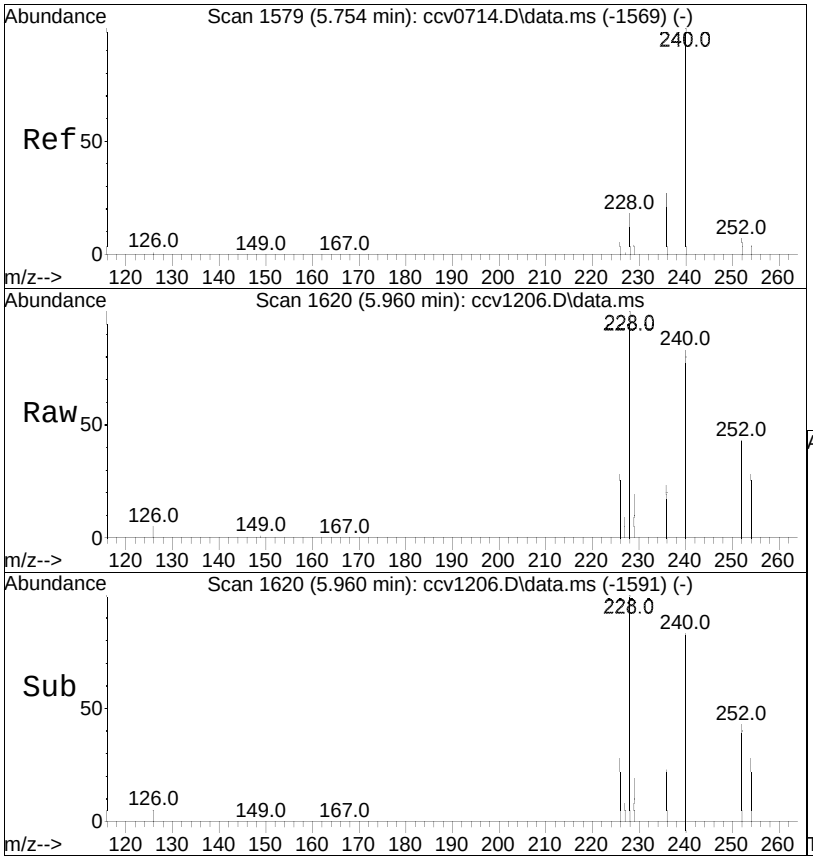


#33
Benzo[a]anthracene
Concen: 917.56 ng/ml
RT: 5.963 min Scan# 1621
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:228 Resp: 47659

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.6	23.4

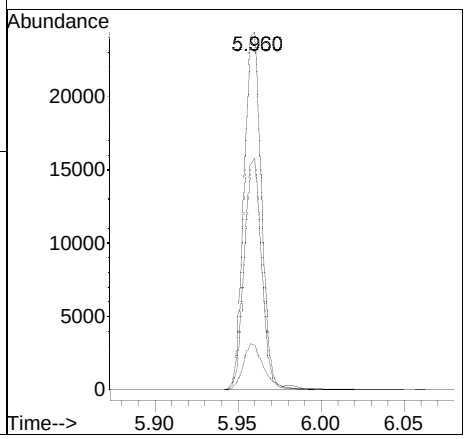


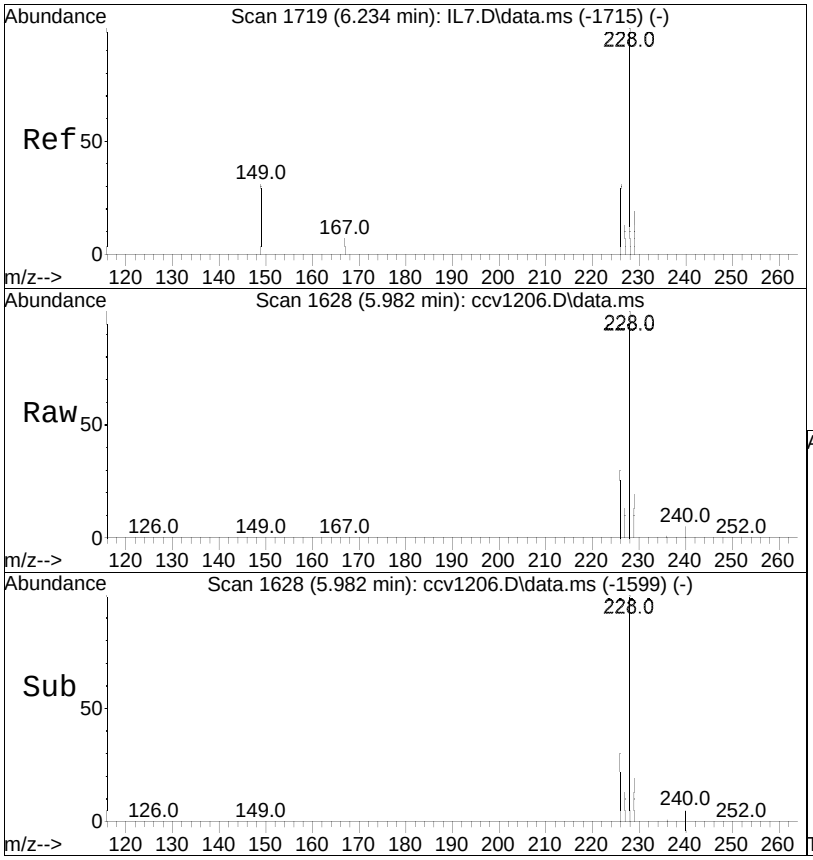


#34
3,3'-Dichlorobenzene
Concen: 994.77 ng/ml
RT: 5.960 min Scan# 1620
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:252 Resp: 17381

Ion	Ratio	Lower	Upper
252	100		
126	15.6	8.4	12.6#
254	64.0	51.9	77.9

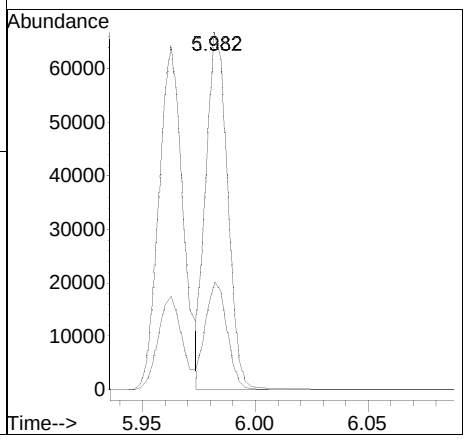


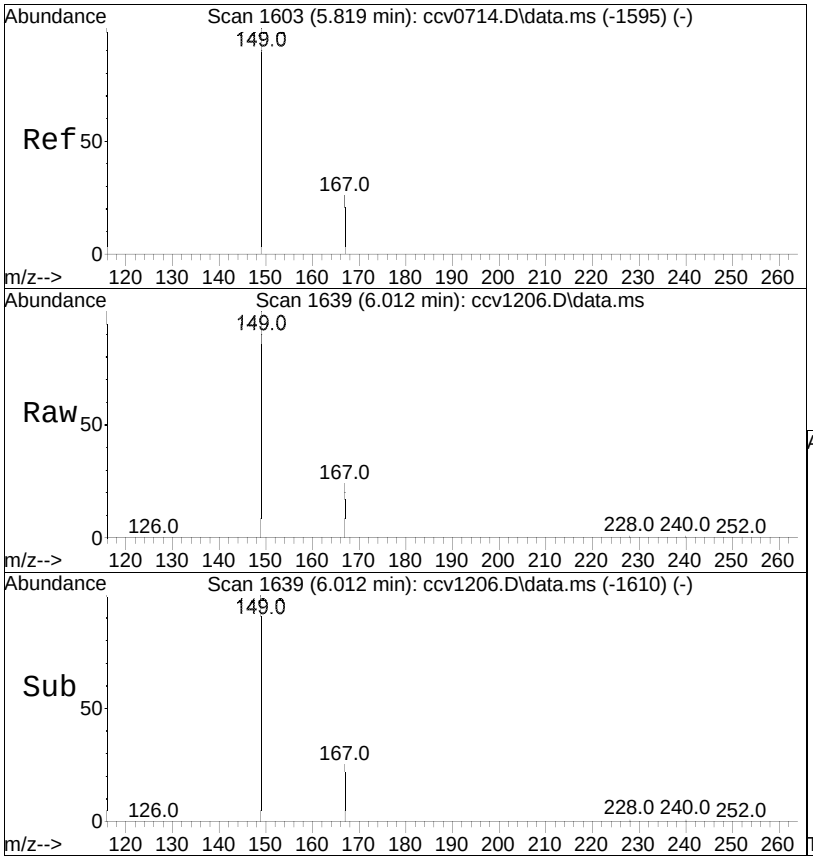


#35
Chrysene
Concen: 834.04 ng/ml
RT: 5.982 min Scan# 1628
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:228 Resp: 44532

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.2	36.2

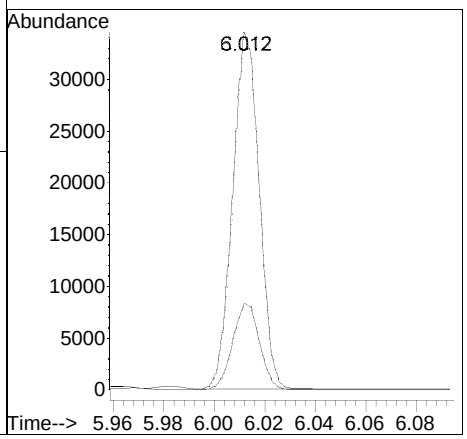


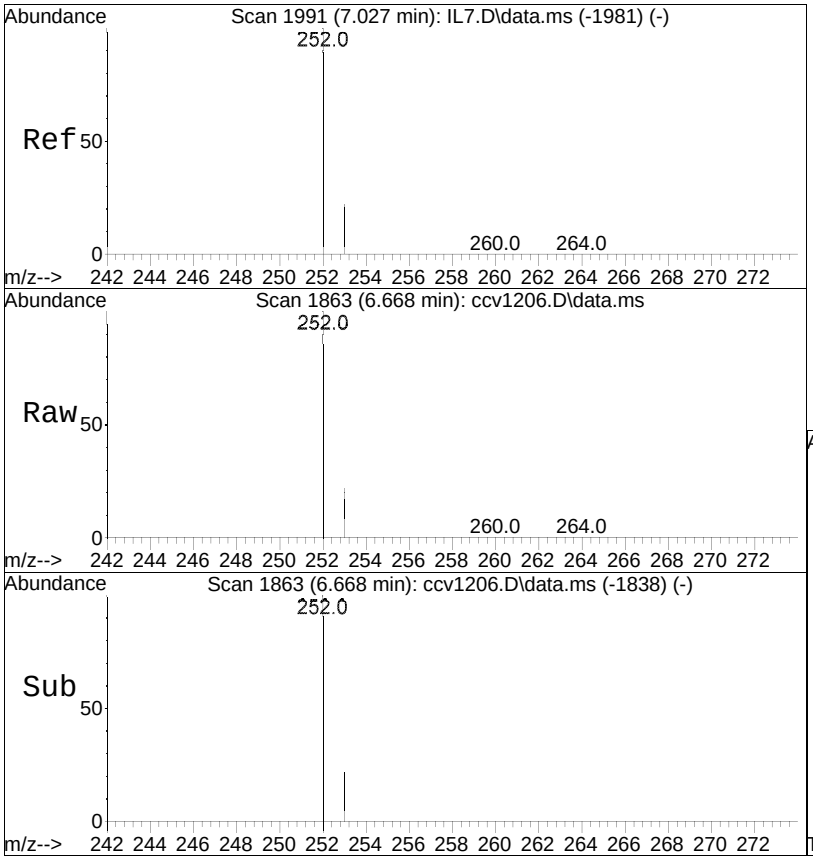


#36
Bis(2-ethylhexyl)phthalate
Concen: 1046.32 ng/ml
RT: 6.012 min Scan# 1639
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:149 Resp: 24718

Ion	Ratio	Lower	Upper
149	100		
167	24.3	19.8	29.6

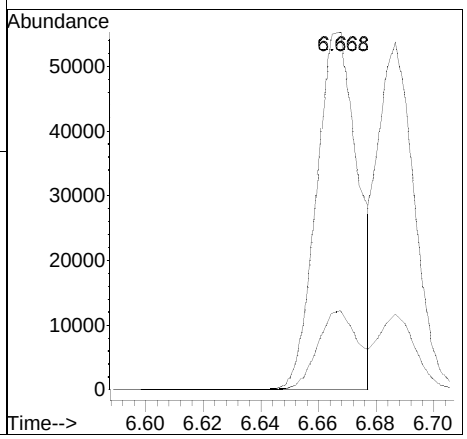


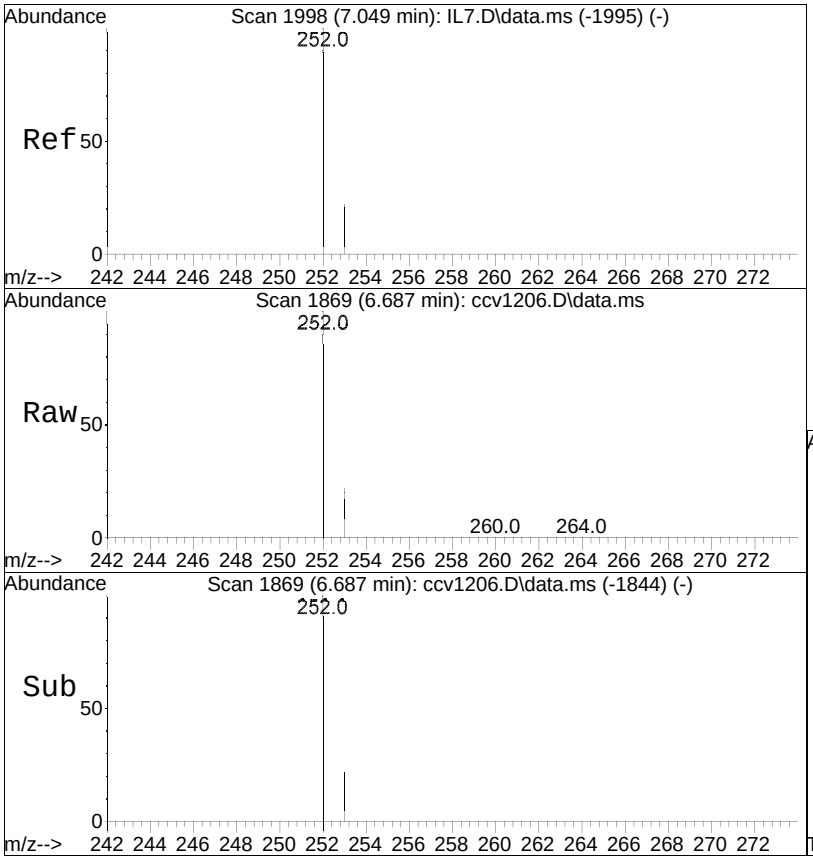


#38
Benzo[b]fluoranthene
Concen: 1024.99 ng/ml
RT: 6.668 min Scan# 1863
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:252 Resp: 55827

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8

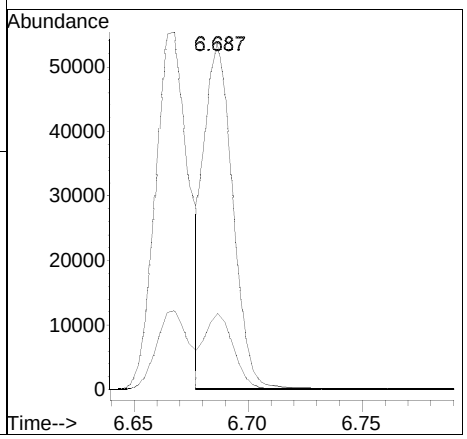


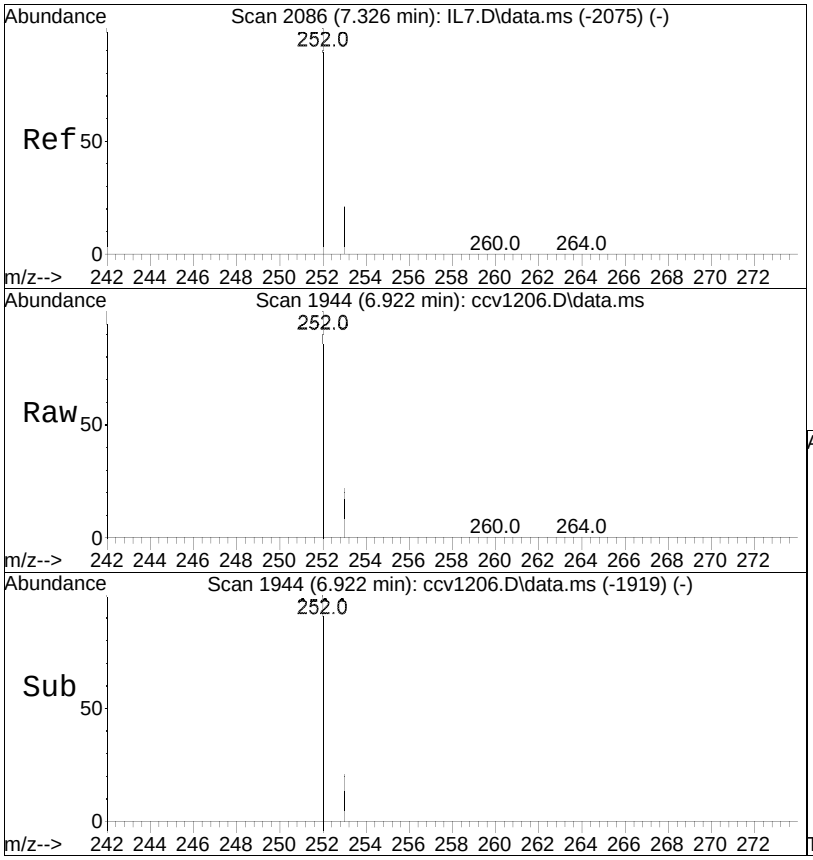


#39
Benzo[k]fluoranthene
Concen: 860.87 ng/ml
RT: 6.687 min Scan# 1869
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:252 Resp: 46519

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3

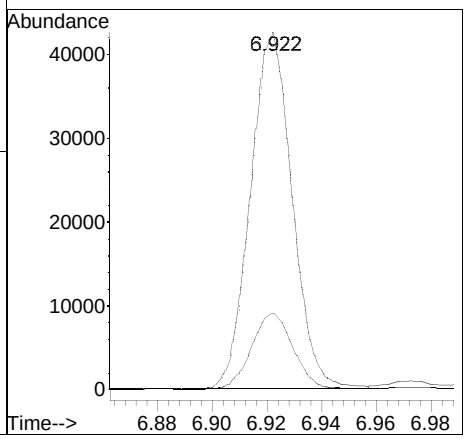


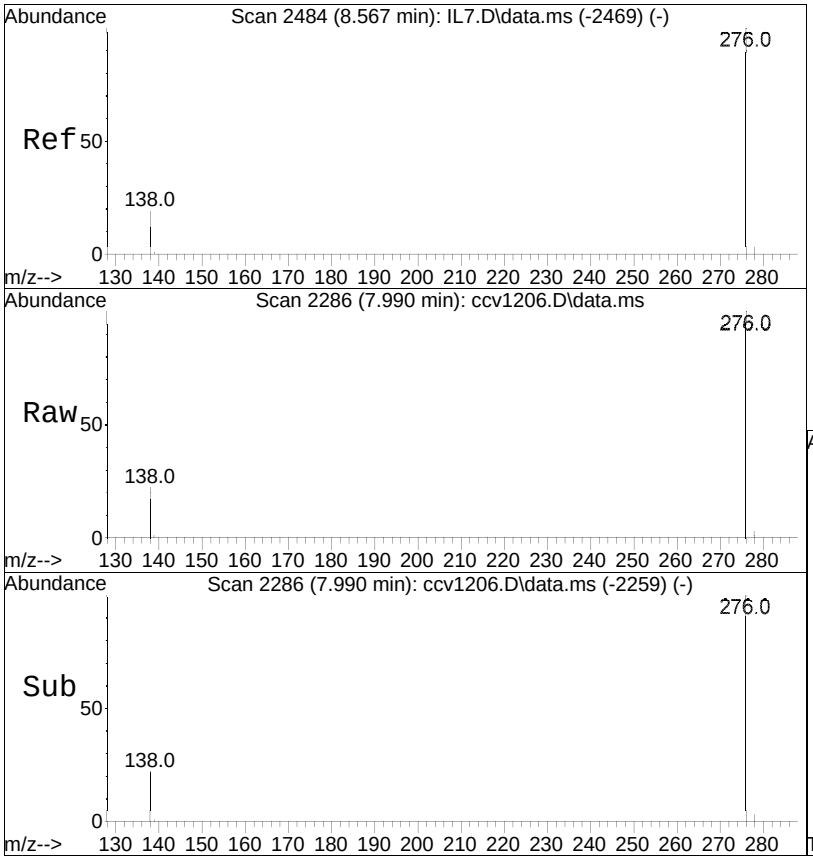


#40
Benzo[a]pyrene
Concen: 937.70 ng/ml
RT: 6.922 min Scan# 1944
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:252 Resp: 44770

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8

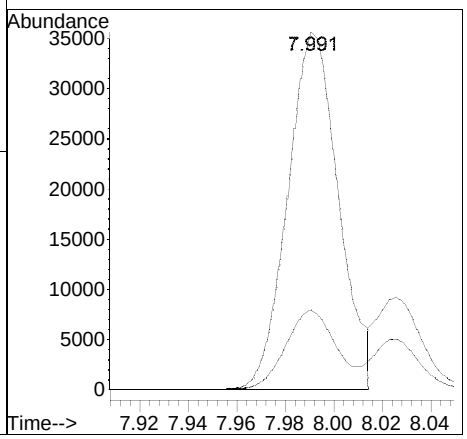


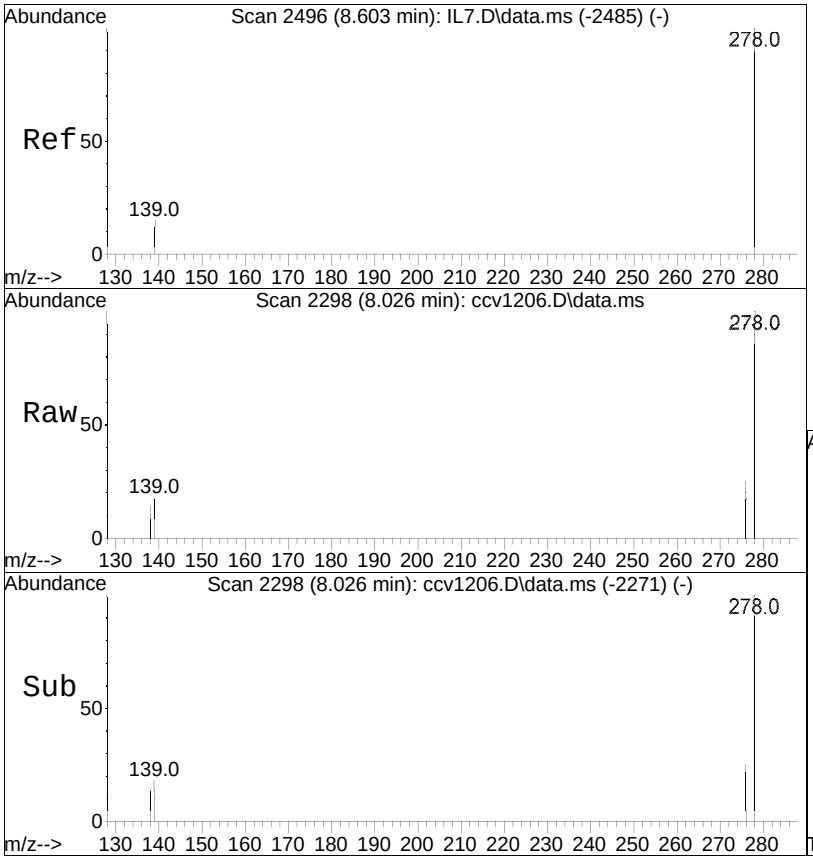


#41
Indeno[1,2,3-cd]pyrene
Concen: 1034.27 ng/ml
RT: 7.990 min Scan# 2286
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:276 Resp: 51399

Ion	Ratio	Lower	Upper
276	100		
138	21.6	14.5	21.7

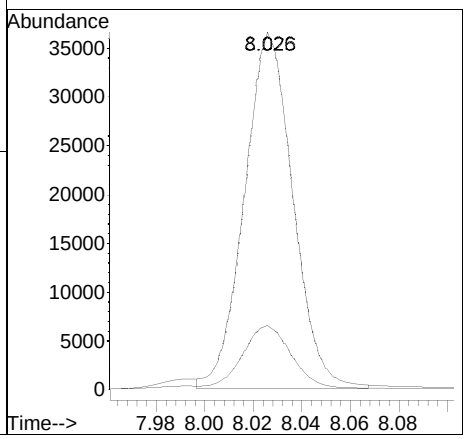


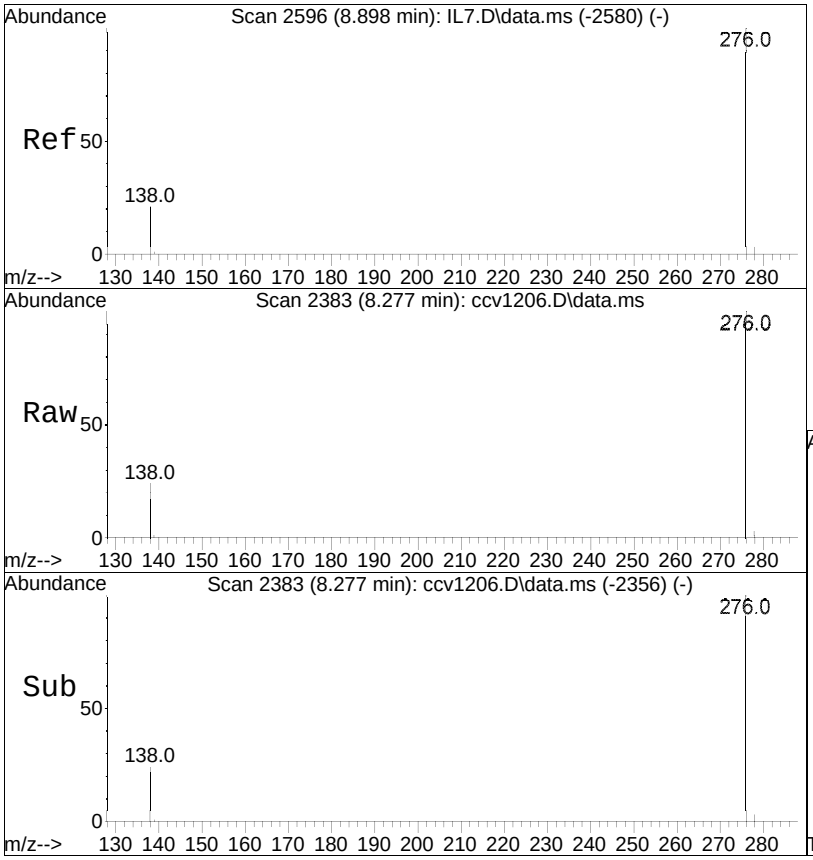


#42
Dibenzo[a,h]anthracene
Concen: 1049.08 ng/ml M6
RT: 8.026 min Scan# 2298
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:278 Resp: 50434

Ion	Ratio	Lower	Upper
278	100		
139	18.8	13.0	19.4

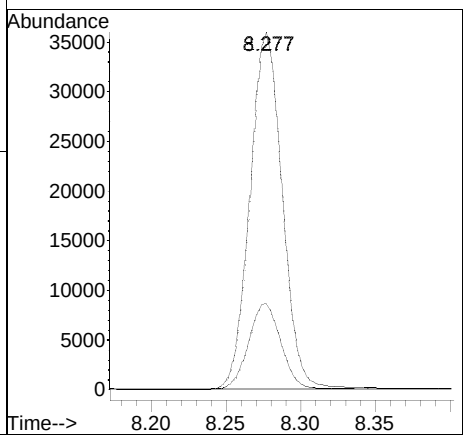




#43
Benzo[g,h,i]perylene
Concen: 988.55 ng/ml
RT: 8.277 min Scan# 2383
Delta R.T. 0.000 min
Lab File: ccv1206.D
Acq: 06 Dec 2023 07:20 am

Tgt Ion:276 Resp: 53132

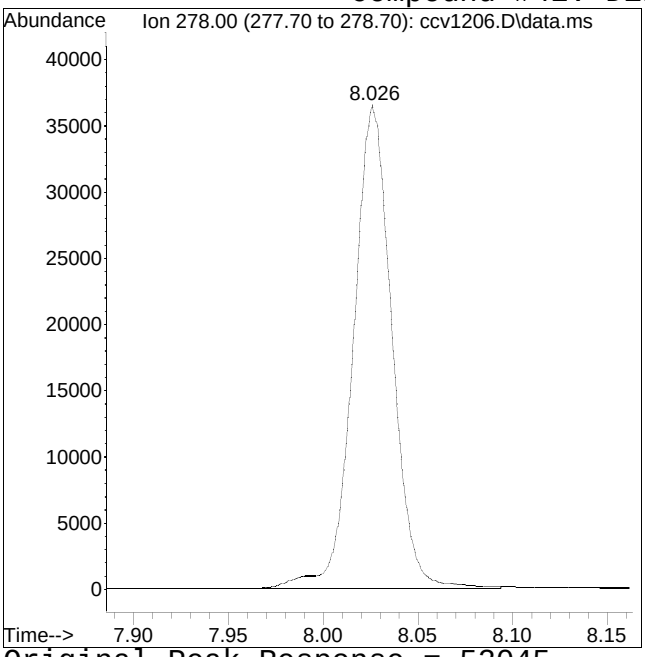
Ion	Ratio	Lower	Upper
276	100		
138	24.2	16.5	24.7



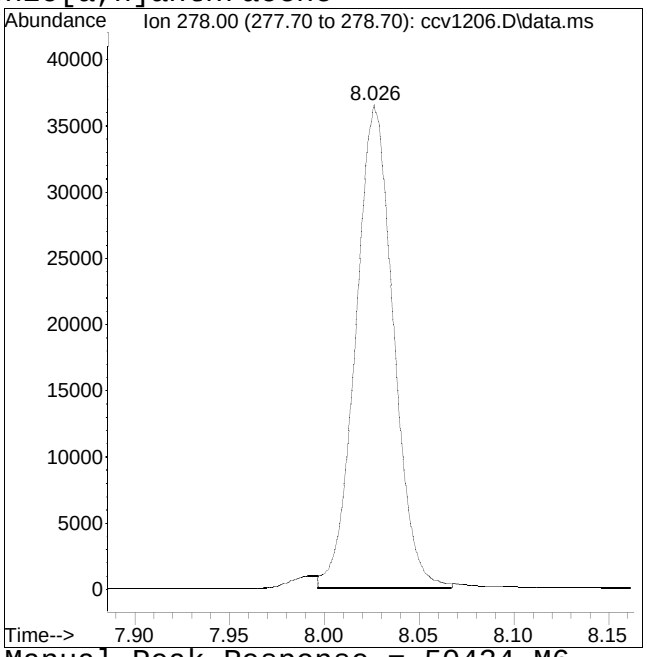
Manual Integration Report

Data Path : I:\8270SIM\SV125\231206LVIQ
Data File : ccv1206.D
Date Inj'd : 12/6/2023 7:20 am
Sample : WG1860343-3,32,,ICV #10193
Method : SIM-LVI_231026_sv125.M
Operator : SV125:jjw
Instrument : SV125
Quant Date : 12/6/2023 7:46 am

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 52045



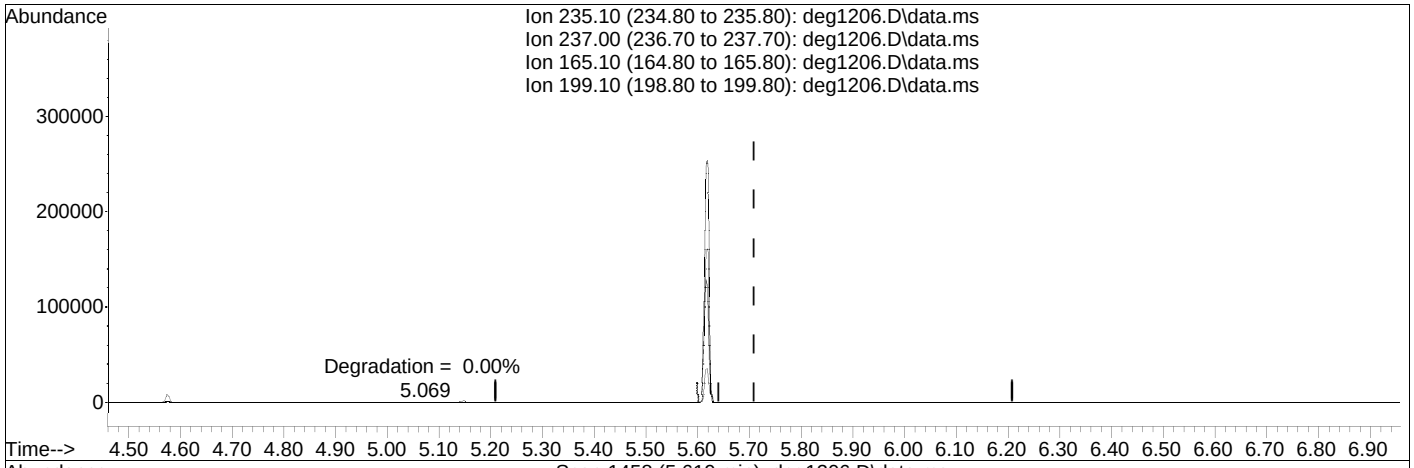
Manual Peak Response = 50434 M6

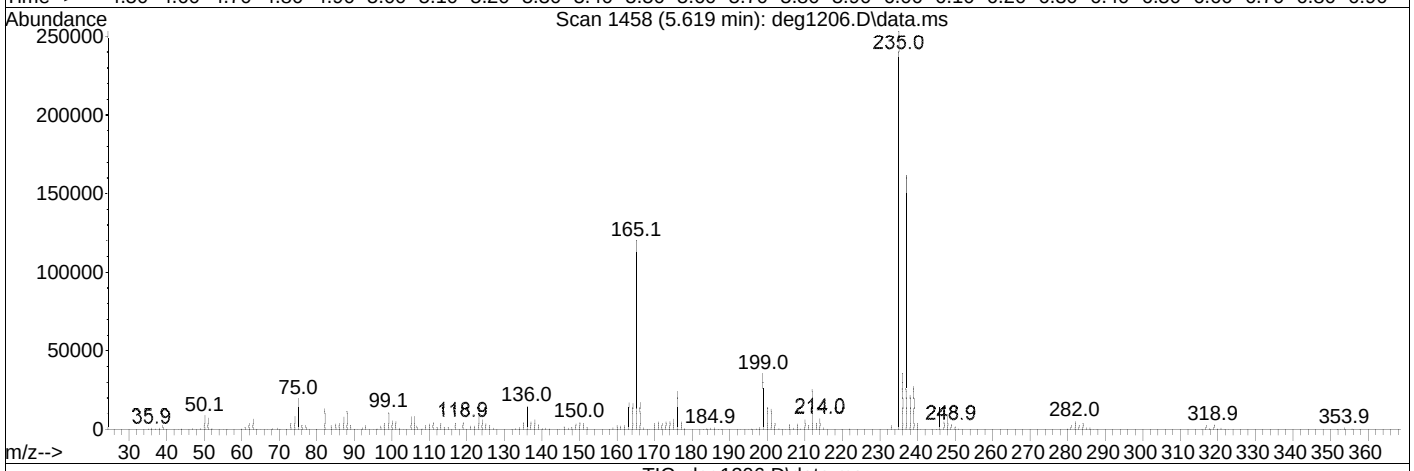
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : deg1206.D
Acq On : 06 Dec 2023 06:58 am
Operator : SV125:jjw
Sample : WG1860343-2,32,,dftpp sv125
Misc : WG1860343,,ical20477
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 06 07:27:27 2023
Quant Method : I:\8270SIM\SV125\231206LVI\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Nov 04 11:05:13 2023
Response via : Continuing Cal File:





TIC: deg1206.D\data.ms

(6) ddt (T)

5.619min (-0.090) 23.08

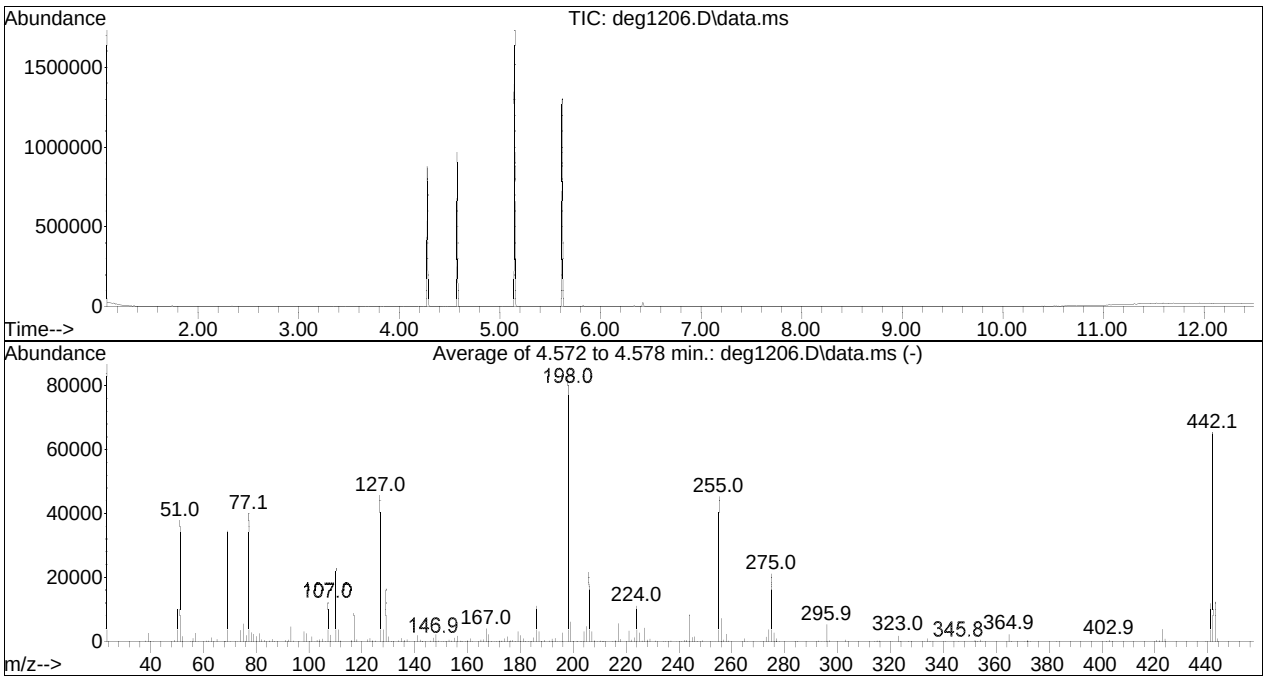
response 140711

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.41
165.10	53.30	49.90
199.10	17.10	14.09

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : deg1206.D
Acq On : 06 Dec 2023 06:58 am
Operator : SV125:jjw
Sample : WG1860343-1,32,,dftpp sv125
Misc : WG1860343,,ical20477
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV125\231206LVI\SIM-LVI_231026_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Dec 06 07:46:03 2023



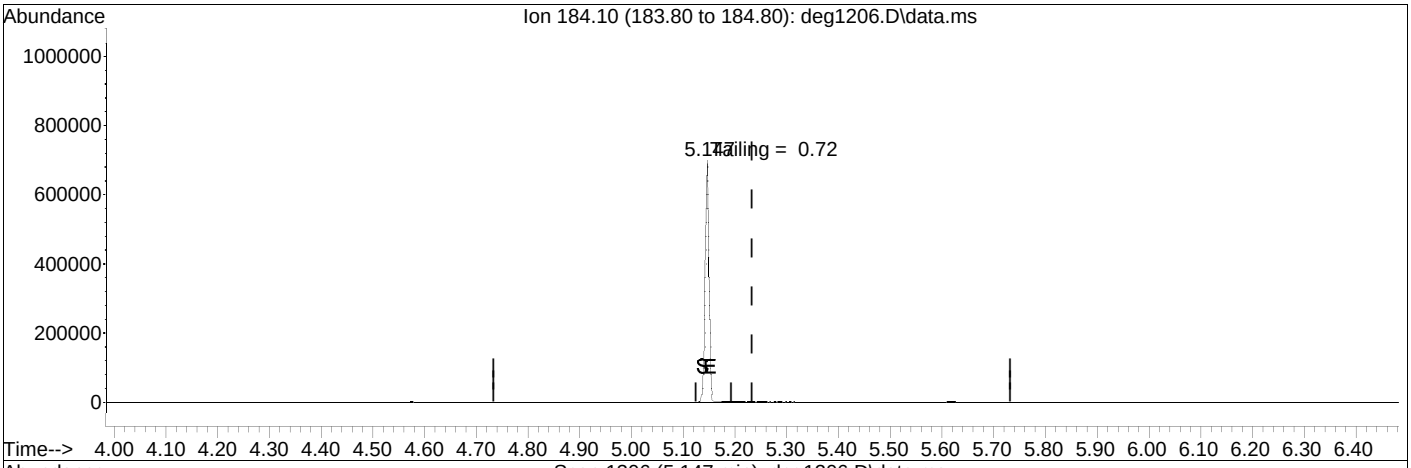
Spectrum Information: Average of 4.572 to 4.578 min.

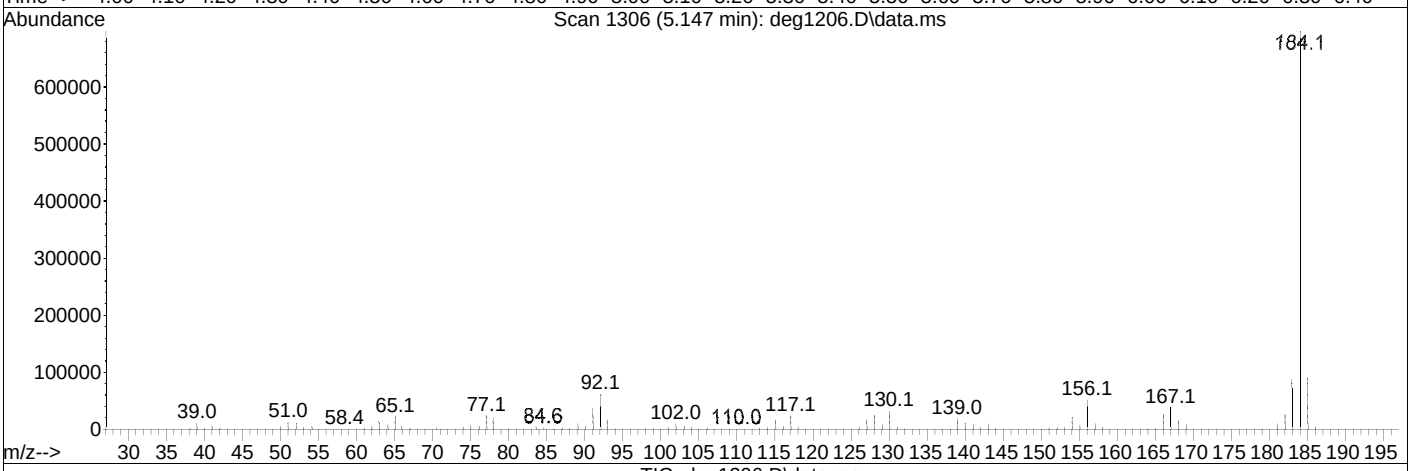
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	45.6	37645	PASS
68	69	0.00	2	1.0	345	PASS
69	69	100	100	100.0	34595	PASS
70	69	0.00	2	0.6	223	PASS
127	198	10	80	55.3	45656	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	82568	PASS
199	198	5	9	7.3	6008	PASS
275	198	10	60	25.4	20988	PASS
365	198	1	100	2.8	2301	PASS
441	442	0.01	24	18.1	11839	PASS
442	198	50	100	79.1	65352	PASS
443	442	15	24	19.0	12390	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : deg1206.D
Acq On : 06 Dec 2023 06:58 am
Operator : SV125:jjw
Sample : WG1860343-4,32,,dftpp sv125
Misc : WG1860343,,ical20477
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 06 07:27:27 2023
Quant Method : I:\8270SIM\SV125\231206LVI\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Nov 04 11:05:13 2023
Response via : Continuing Cal File:





TIC: deg1206.D\data.ms

(3) benzidine (T)

5.147min (-0.086) 31.85

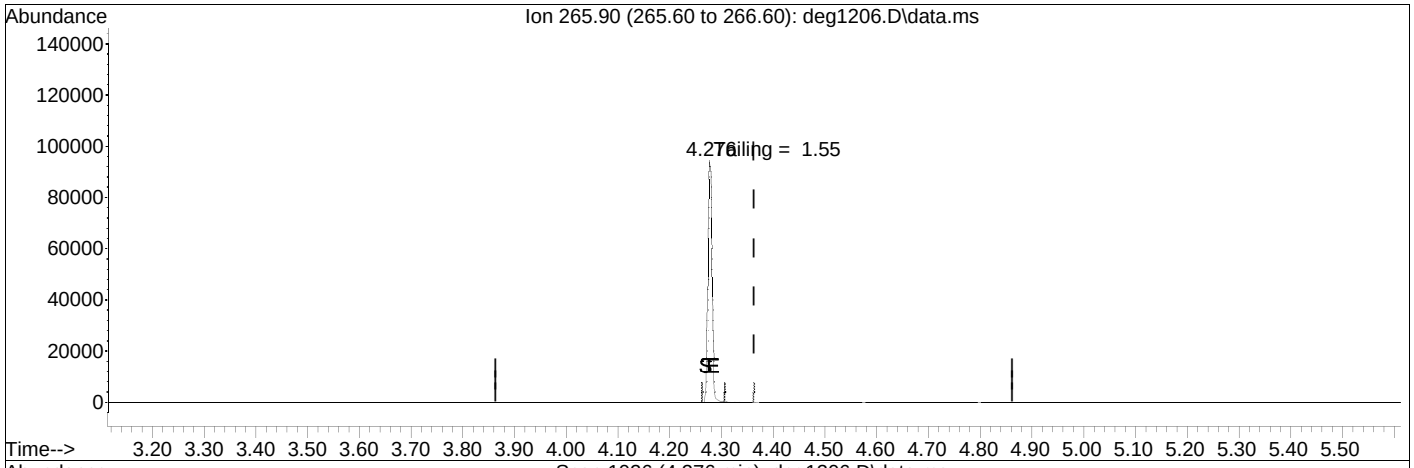
response 324230

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : deg1206.D
Acq On : 06 Dec 2023 06:58 am
Operator : SV125:jjw
Sample : WG1860343-5,32,,dftpp sv125
Misc : WG1860343,,ical20477
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 06 07:27:27 2023
Quant Method : I:\8270SIM\SV125\231206LVI\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Nov 04 11:05:13 2023
Response via : Continuing Cal File:



TIC: deg1206.D\data.ms

(1) pentachlorophenol (T)

4.276min (-0.087) 23.42

response 49189

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV128	**Calibration Date**	: 12/04/23 09:57		
Lab File ID	: CCV1204	**Init. Calib. Date(s)**	: 08/31/23	09/05/23	
Sample No	: WG1859432-3	**Init. Calib. Times**	: 09:45	09:24	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	157	0
2-Fluorophenol	1.022	1.015	.05	0.7	20	151	0
Phenol-d6	1.251	1.21	.05	3.3	20	146	0
Bis(2-chloroethyl)ether	1.078	1.046	.05	3	20	145	0
n-nitrosodi-n-propylamine	0.809	0.725	.05	10.4	20	134	0
Hexachloroethane	0.481	0.497	.05	-3.3	20	158	0
Nitrobenzene-d5	1.06	1.109	.05	-4.6	20	153	0
Naphthalene-d8	1	1	.05	0	20	121	0
Naphthalene	0.977	0.936	.05	4.2	20	112	0
Hexachlorobutadiene	0.184	0.31	.05	-68.5*	20	196	0
2-Methylnaphthalene	0.652	0.604	.05	7.4	20	107	0
1-Methylnaphthalene	0.604	0.594	.05	1.7	20	113	0
2-Fluorobiphenyl	0.82	0.809	.05	1.3	20	114	0
2-Chloronaphthalene	0.676	0.714	.05	-5.6	20	121	0
2,6-Dinitrotoluene	0.135	0.143	.05	-5.9	20	135	0
Acenaphthylene	1.077	1.011	.05	6.1	20	107	0
Acenaphthene-d10	1	1	.05	0	20	119	0
Acenaphthene	1.267	1.136	.05	10.3	20	102	0
2,4-Dinitrotoluene	0.304	0.339	.05	-11.5	20	137	0
Fluorene	1.383	1.279	.05	7.5	20	104	0
2,4,6-Tribromophenol	0.168	0.307	.05	-82.7*	20	206	0
Phenanthrene-d10	1	1	.05	0	20	110	0
4,6-Dinitro-o-cresol	1000	1207.649	.05	-20.8*	20	158	0
Hexachlorobenzene	0.215	0.288	.05	-34*	20	142	0
Pentachlorophenol	1000	967.222	.05	3.3	20	122	0
Phenanthrene	0.997	0.894	.05	10.3	20	96	0
Anthracene	0.971	0.923	.05	4.9	20	100	0
Fluoranthene	1.158	1.096	.05	5.4	20	101	0
Pyrene	1.199	1.175	.05	2	20	103	0
4-Terphenyl-d14	0.845	0.651	.05	23*	20	81	0
Chrysene-d12	1	1	.05	0	20	114	0
Benzo[a]anthracene	1000	907.005	.05	9.3	20	102	0
3,3'-Dichlorobenzidine	0.499	0.506	.05	-1.4	20	119	0
Chrysene	1.234	1.161	.05	5.9	20	104	0
Bis(2-ethylhexyl)phthalate	0.779	0.655	.05	15.9	20	103	0
Perylene-d12	1	1	.05	0	20	125	0
Benzo[b]fluoranthene	1.127	1.08	.05	4.2	20	118	0
Benzo[k]fluoranthene	1.043	0.944	.05	9.5	20	102	0
Benzo[a]pyrene	0.968	0.92	.05	5	20	111	0
Indeno[1,2,3-cd]pyrene	0.969	0.965	.05	0.4	20	124	0
Dibenzo[a,h]anthracene	0.932	0.93	.05	0.2	20	115	0
Benzo[g,h,i]perylene	0.992	1.012	.05	-2	20	125	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV125	**Calibration Date**	: 12/06/23 07:20		
Lab File ID	: CCV1206	**Init. Calib. Date(s)**	: 10/26/23	10/26/23	
Sample No	: WG1860343-3	**Init. Calib. Times**	: 13:22	15:47	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	71	0
2-Fluorophenol	1.015	1.069	.05	-5.3	20	73	0
Phenol-d6	1.174	1.232	.05	-4.9	20	73	0
Bis(2-chloroethyl)ether	1.058	1.011	.05	4.4	20	66	0
n-nitrosodi-n-propylamine	0.64	0.637	.05	0.5	20	71	0
Hexachloroethane	0.48	0.422	.05	12.1	20	63	0
Nitrobenzene-d5	0.912	0.963	.05	-5.6	20	72	0
Naphthalene-d8	1	1	.05	0	20	73	0
Naphthalene	1.004	0.909	.05	9.5	20	65	0
Hexachlorobutadiene	0.181	0.147	.05	18.8	20	59	0
2-Methylnaphthalene	0.645	0.568	.05	11.9	20	63	0
1-Methylnaphthalene	0.601	0.552	.05	8.2	20	66	0
2-Fluorobiphenyl	0.766	0.652	.05	14.9	20	60	0
2-Chloronaphthalene	0.66	0.568	.05	13.9	20	62	0
2,6-Dinitrotoluene	1000	966.584	.05	3.3	20	86	0
Acenaphthylene	0.971	0.904	.05	6.9	20	66	0
Acenaphthene-d10	1	1	.05	0	20	74	0
Acenaphthene	1.298	1.08	.05	16.8	20	62	0
2,4-Dinitrotoluene	1000	1040.127	.05	-4	20	87	0
Fluorene	1.369	1.206	.05	11.9	20	64	0
2,4,6-Tribromophenol	1000	924.602	.05	7.5	20	73	0
Phenanthrene-d10	1	1	.05	0	20	70	0
4,6-Dinitro-o-cresol	1000	1090.185	.05	-9	20	86	0
Hexachlorobenzene	0.231	0.191	.05	17.3	20	57	0
Pentachlorophenol	1000	834.933	.05	16.5	20	55	0
Phenanthrene	0.998	0.899	.05	9.9	20	63	0
Anthracene	0.934	0.867	.05	7.2	20	64	0
Fluoranthene	1.097	1.042	.05	5	20	66	0
Pyrene	1.15	1.109	.05	3.6	20	66	0
4-Terphenyl-d14	0.765	0.675	.05	11.8	20	59	0
Chrysene-d12	1	1	.05	0	20	76	0
Benzo[a]anthracene	1000	917.559	.05	8.2	20	73	0
3,3'-Dichlorobenzene	0.421	0.419	.05	0.5	20	80	0
Chrysene	1.286	1.073	.05	16.6	20	64	0
Bis(2-ethylhexyl)phthalate	1000	1046.316	.05	-4.6	20	92	0
Perylene-d12	1	1	.05	0	20	84	0
Benzo[b]fluoranthene	1.078	1.105	.05	-2.5	20	85	0
Benzo[k]fluoranthene	1.069	0.921	.05	13.8	20	67	0
Benzo[a]pyrene	0.945	0.886	.05	6.2	20	76	0
Indeno[1,2,3-cd]pyrene	0.984	1.017	.05	-3.4	20	86	0
Dibenzo[a,h]anthracene	0.951	0.998	.05	-4.9	20	83	0
Benzo[g,h,i]perylene	1.064	1.052	.05	1.1	20	80	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Semivolatiles

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: SV125	**Calibration Date**	: 12/07/23 11:43		
Lab File ID	: CCV1207B	**Init. Calib. Date(s)**	: 10/26/23	10/26/23	
Sample No	: WG1861049-3	**Init. Calib. Times**	: 13:22	15:47	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	68	0
2-Fluorophenol	1.015	1.062	.05	-4.6	20	68	0
Phenol-d6	1.174	1.237	.05	-5.4	20	70	0
Bis(2-chloroethyl)ether	1.058	1.01	.05	4.5	20	63	0
n-nitrosodi-n-propylamine	0.64	0.669	.05	-4.5	20	70	0
Hexachloroethane	0.48	0.436	.05	9.2	20	62	0
Nitrobenzene-d5	0.912	1.011	.05	-10.9	20	72	0
Naphthalene-d8	1	1	.05	0	20	70	0
Naphthalene	1.004	0.916	.05	8.8	20	63	0
Hexachlorobutadiene	0.181	0.147	.05	18.8	20	57	0
2-Methylnaphthalene	0.645	0.577	.05	10.5	20	62	0
1-Methylnaphthalene	0.601	0.565	.05	6	20	65	0
2-Fluorobiphenyl	0.766	0.663	.05	13.4	20	59	0
2-Chloronaphthalene	0.66	0.577	.05	12.6	20	61	0
2,6-Dinitrotoluene	1000	1010.471	.05	-1	20	86	0
Acenaphthylene	0.971	0.942	.05	3	20	66	0
Acenaphthene-d10	1	1	.05	0	20	71	0
Acenaphthene	1.298	1.099	.05	15.3	20	61	0
2,4-Dinitrotoluene	1000	1066.493	.05	-6.6	20	86	0
Fluorene	1.369	1.211	.05	11.5	20	62	0
2,4,6-Tribromophenol	1000	906.073	.05	9.4	20	69	0
Phenanthrene-d10	1	1	.05	0	20	65	0
4,6-Dinitro-o-cresol	1000	1088.109	.05	-8.8	20	80	0
Hexachlorobenzene	0.231	0.181	.05	21.6*	20	51	0
Pentachlorophenol	1000	1116.722	.05	-11.7	20	71	0
Phenanthrene	0.998	0.904	.05	9.4	20	59	0
Anthracene	0.934	0.88	.05	5.8	20	60	0
Fluoranthene	1.097	1.003	.05	8.6	20	59	0
Pyrene	1.15	1.048	.05	8.9	20	58	0
4-Terphenyl-d14	0.765	0.611	.05	20.1*	20	50	0
Chrysene-d12	1	1	.05	0	20	60	0
Benzo[a]anthracene	1000	919.357	.05	8.1	20	58	0
3,3'-Dichlorobenzene	0.421	0.444	.05	-5.5	20	68	0
Chrysene	1.286	1.116	.05	13.2	20	53	0
Bis(2-ethylhexyl)phthalate	1000	1275.556	.05	-27.6*	20	91	0
Perylene-d12	1	1	.05	0	20	62	0
Benzo[b]fluoranthene	1.078	1.106	.05	-2.6	20	63	0
Benzo[k]fluoranthene	1.069	0.949	.05	11.2	20	51	0
Benzo[a]pyrene	0.945	0.9	.05	4.8	20	57	0
Indeno[1,2,3-cd]pyrene	0.984	0.977	.05	0.7	20	61	0
Dibenzo[a,h]anthracene	0.951	0.951	.05	0	20	59	0
Benzo[g,h,i]perylene	1.064	0.98	.05	7.9	20	55	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : ccv1207b.D
Acq On : 07 Dec 2023 11:43 am
Operator : SV125:jjw
Sample : WG1861049-3,32,,ICV #10193 (1129)
Misc : WG1861049,,ical20477
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 07 12:12:37 2023
Quant Method : I:\8270SIM\SV125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:29 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	68	0.00
2	T	1,4-Dioxane	0.000	0.000#	0.0	0#	-1.90#
3	s	2-Fluorophenol	1.015	1.062	-4.6	68	0.00
4	s	Phenol-d6	1.174	1.237	-5.4	70	0.00
5	T	Bis(2-chloroethyl)ether	1.058	1.010	4.5	63	0.00
6	T	n-nitrosodi-n-propylamine	0.640	0.669	-4.5	70	0.00
7	t	Hexachloroethane	0.480	0.436	9.2	62	0.00
8	s	Nitrobenzene-d5	0.912	1.011	-10.9	72	0.00
9	i	Naphthalene-d8	1.000	1.000	0.0	70	0.00
10	t	Naphthalene	1.004	0.916	8.8	63	0.00
11	t	Hexachlorobutadiene	0.181	0.147	18.8	57	0.00
12	t	2-Methylnaphthalene	0.645	0.577	10.5	62	0.00
13	t	1-Methylnaphthalene	0.601	0.565	6.0	65	0.00
14	s	2-Fluorobiphenyl	0.766	0.663	13.4	59	0.00
15	t	2-Chloronaphthalene	0.660	0.577	12.6	61	0.00
16	t	2,6-Dinitrotoluene	*1000.000	1010.471	-1.0	86	0.00
17	t	Acenaphthylene	0.971	0.942	3.0	66	0.00
18	i	Acenaphthene-d10	1.000	1.000	0.0	71	0.00
19	t	Acenaphthene	1.298	1.099	15.3	61	0.00
20	t	2,4-Dinitrotoluene	*1000.000	1066.493	-6.6	86	0.00
21	t	Fluorene	1.369	1.211	11.5	62	0.00
22	s	2,4,6-Tribromophenol	*1000.000	906.073	9.4	69	0.00
23	i	Phenanthrene-d10	1.000	1.000	0.0	65	0.00
24	T	4,6-Dinitro-o-cresol	*1000.000	1088.109	-8.8	80	0.00
25	t	Hexachlorobenzene	0.231	0.181	21.6#	51	0.00
26	t	Pentachlorophenol	*1000.000	1116.722	-11.7	71	0.00
27	t	Phenanthrene	0.998	0.904	9.4	59	0.00
28	t	Anthracene	0.934	0.880	5.8	60	0.00
29	t	Fluoranthene	1.097	1.003	8.6	59	0.00
30	t	Pyrene	1.150	1.048	8.9	58	0.00
31	s	4-Terphenyl-d14	0.765	0.611	20.1#	50	0.00
32	i	Chrysene-d12	1.000	1.000	0.0	60	0.00
33	t	Benzo[a]anthracene	*1000.000	919.357	8.1	58	0.00
34	t	3,3'-Dichlorobenzene	0.421	0.444	-5.5	68	0.00
35	t	Chrysene	1.286	1.116	13.2	53	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : ccv1207b.D
Acq On : 07 Dec 2023 11:43 am
Operator : SV125:jjw
Sample : WG1861049-3,32,,ICV #10193 (1129)
Misc : WG1861049,,ical20477
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 07 12:12:37 2023
Quant Method : I:\8270SIM\SV125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:29 2023
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36	T	Bis(2-ethylhexyl)phthalate	*1000.000	1275.556	-27.6#	91	0.00
37	i	Perylene-d12	1.000	1.000	0.0	62	0.00
38	t	Benzo[b]fluoranthene	1.078	1.106	-2.6	63	0.00
39	t	Benzo[k]fluoranthene	1.069	0.949	11.2	51	0.00
40	t	Benzo[a]pyrene	0.945	0.900	4.8	57	0.00
41	t	Indeno[1,2,3-cd]pyrene	0.984	0.977	0.7	61	0.00
42	t	Dibenzo[a,h]anthracene	0.951	0.951	0.0	59	0.00
43	t	Benzo[g,h,i]perylene	1.064	0.980	7.9	55	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : ccv1207b.D
Acq On : 07 Dec 2023 11:43 am
Operator : SV125:jjw
Sample : WG1861049-3,32,,ICV #10193 (1129)
Misc : WG1861049,,ical20477
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 07 12:12:37 2023
Quant Method : I:\8270SIM\SV125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:29 2023
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.188	152	35016	4000.000	ng/ml	0.00
9) Naphthalene-d8	2.850	136	133973	4000.000	ng/ml	0.00
18) Acenaphthene-d10	3.819	164	74318	4000.000	ng/ml	0.00
23) Phenanthrene-d10	4.650	188	152800	4000.000	ng/ml	0.00
32) Chrysene-d12	6.170	240	132050	4000.000	ng/ml	0.00
37) Perylene-d12	7.309	264	149607	4000.000	ng/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	1.584	112	9293	1046.317	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 20.93%			
4) Phenol-d6	1.995	99	10829	1053.930	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 21.08%			
8) Nitrobenzene-d5	2.467	82	8848	1107.980	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 44.32%			
14) 2-Fluorobiphenyl	3.446	172	22203	865.383	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 34.62%			
22) 2,4,6-Tribromophenol	4.261	330	3338	906.073	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 18.12%			
31) 4-Terphenyl-d14	5.557	244	23352	799.330	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 31.97%			
Target Compounds						Qvalue
2) 1,4-Dioxane	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.051	93	8844	954.620	ng/ml	96
6) n-nitrosodi-n-propylamine	2.389	70	5855	1045.453	ng/ml	98
7) Hexachloroethane	2.447	117	3816	908.284	ng/ml	96
10) Naphthalene	2.859	128	30687	912.502	ng/ml#	100
11) Hexachlorobutadiene	2.936	225	4930	813.124	ng/ml	100
12) 2-Methylnaphthalene	3.241	142	19330	895.411	ng/ml	100
13) 1-Methylnaphthalene	3.293	142	18918	940.481	ng/ml	100
15) 2-Chloronaphthalene	3.510	162	19337	875.021	ng/ml	94
16) 2,6-Dinitrotoluene	3.700	165	4541	1010.471	ng/ml	93
17) Acenaphthylene	3.739	152	31559	970.173	ng/ml	100
19) Acenaphthene	3.837	153	20415	846.525	ng/ml	97
20) 2,4-Dinitrotoluene	3.925	165	5985	1066.493	ng/ml	88
21) Fluorene	4.124	166	22496	884.442	ng/ml	100
24) 4,6-Dinitro-o-cresol	4.152	198	2826	1088.109	ng/ml	95
25) Hexachlorobenzene	4.438	284	6910M6	783.902	ng/ml	
26) Pentachlorophenol	4.547	266	4069	1116.722	ng/ml	100
27) Phenanthrene	4.662	178	34526	905.662	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : ccv1207b.D
Acq On : 07 Dec 2023 11:43 am
Operator : SV125:jjw
Sample : WG1861049-3,32,,ICV #10193 (1129)
Misc : WG1861049,,ical20477
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 07 12:12:37 2023
Quant Method : I:\8270SIM\SV125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:29 2023
Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28) Anthracene	4.692	178	33617	942.100	ng/ml	100
29) Fluoranthene	5.333	202	38321	914.137	ng/ml	95
30) Pyrene	5.461	202	40032	911.482	ng/ml	100
33) Benzo[a]anthracene	6.162	228	37981	919.357	ng/ml	100
34) 3,3'-Dichlorobenzene	6.151	252	14673	1055.829	ng/ml#	99
35) Chrysene	6.187	228	36849	867.696	ng/ml	99
36) Bis(2-ethylhexyl)phtha...	6.195	149	24254	1275.556	ng/ml	98
38) Benzo[b]fluoranthene	6.960	252	41370	1026.132	ng/ml	100
39) Benzo[k]fluoranthene	6.982	252	35495	887.390	ng/ml	100
40) Benzo[a]pyrene	7.252	252	33673	952.798	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.453	276	36526	992.934	ng/ml#	89
42) Dibenzo[a,h]anthracene	8.488	278	35554M6	999.113	ng/ml	
43) Benzo[g,h,i]perylene	8.775	276	36649	921.181	ng/ml#	89

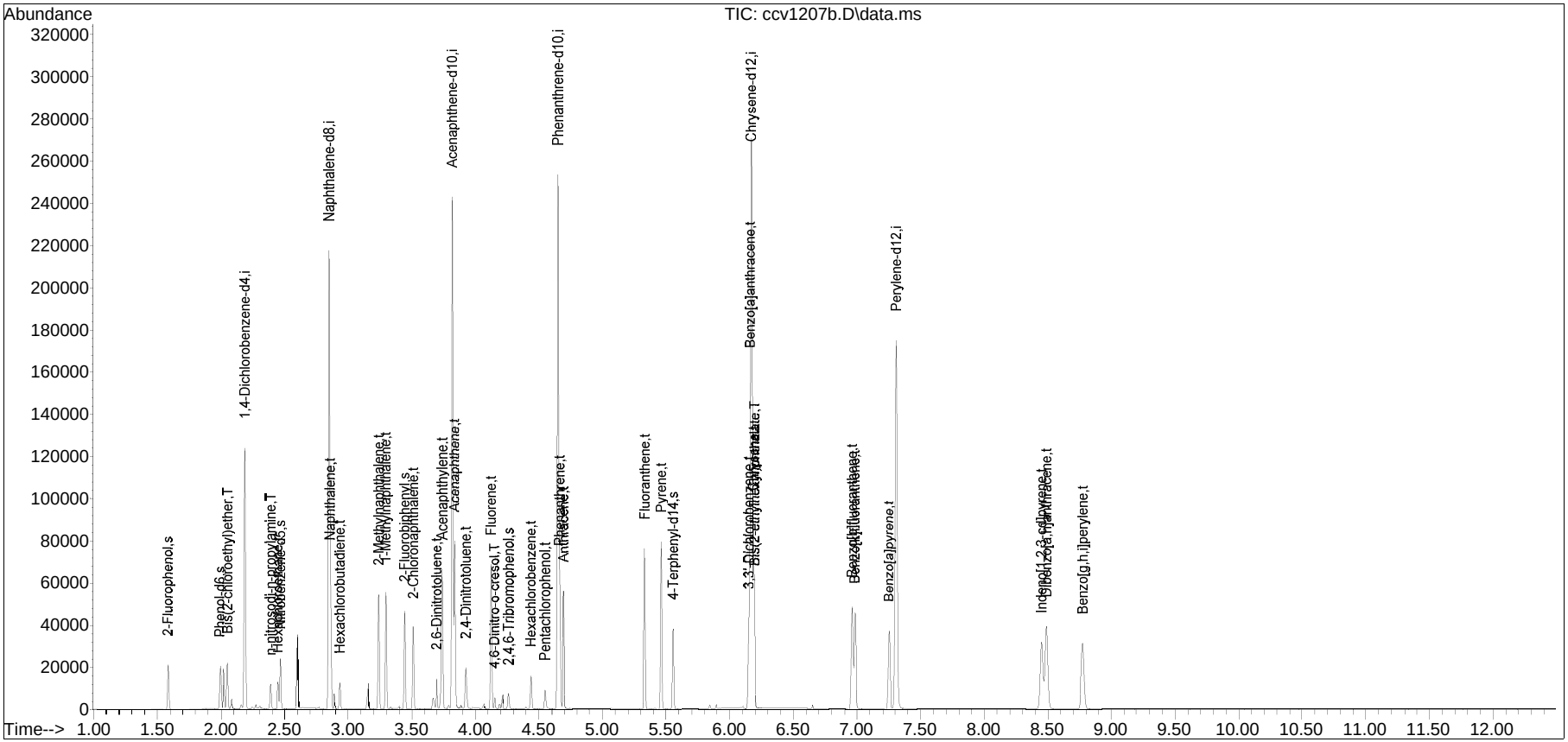
(#) = qualifier out of range (m) = manual integration (+) = signals summed

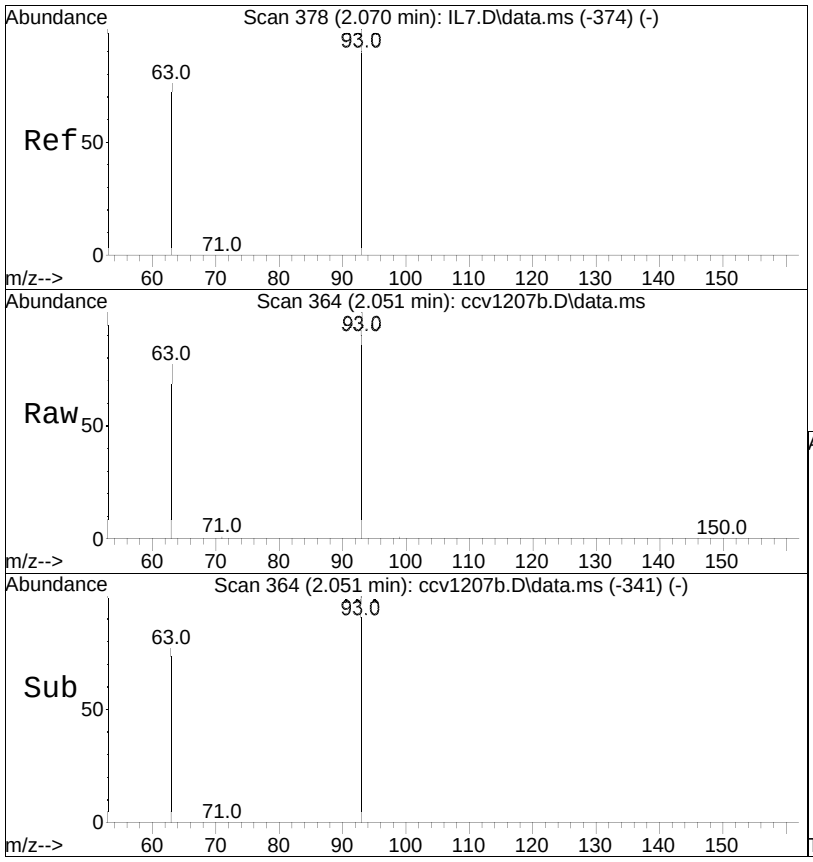
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : ccv1207b.D
Acq On : 07 Dec 2023 11:43 am
Operator : SV125:jjw
Sample : WG1861049-3,32,,ICV #10193 (1129)
Misc : WG1861049,,ical20477
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 07 12:12:37 2023
Quant Method : I:\8270SIM\SV125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:29 2023
Response via : Initial Calibration

Sub List : Default - All compounds listed

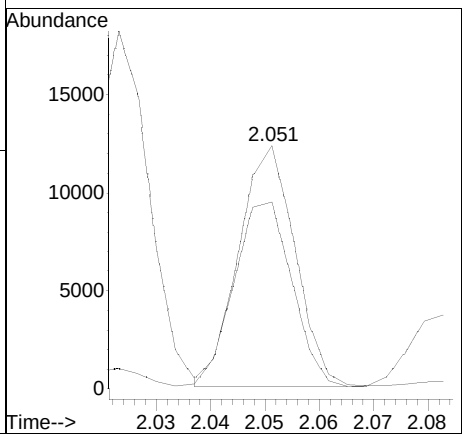


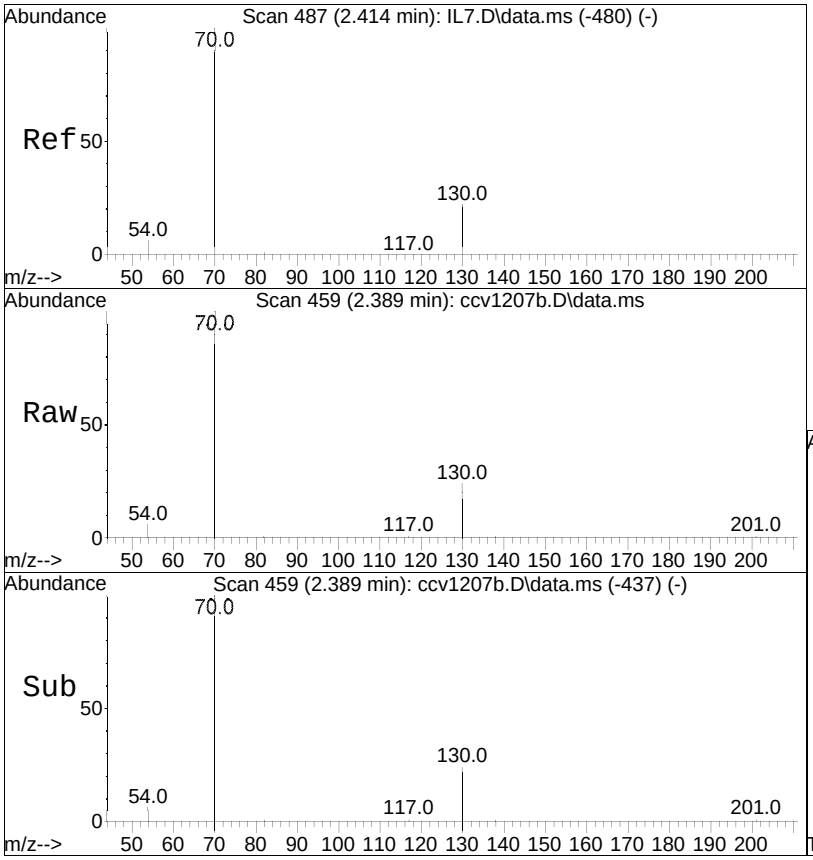


#5
Bis(2-chloroethyl)ether
Concen: 954.62 ng/ml
RT: 2.051 min Scan# 364
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion: 93 Resp: 8844

Ion	Ratio	Lower	Upper
93	100		
63	79.8	61.3	91.9

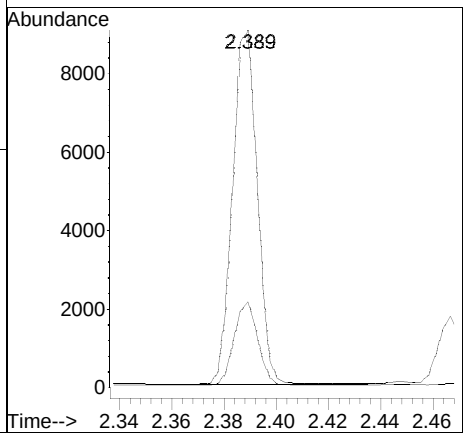


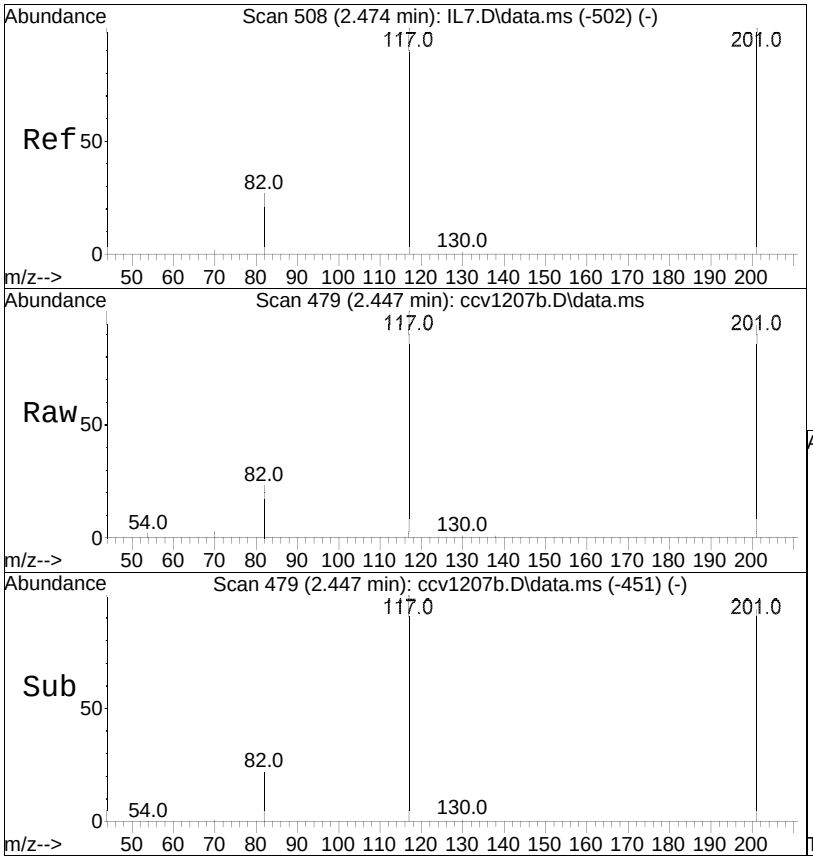


#6
n-nitrosodi-n-propylamine
Concen: 1045.45 ng/ml
RT: 2.389 min Scan# 459
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion: 70 Resp: 5855

Ion	Ratio	Lower	Upper
70	100		
130	23.0	17.6	26.4

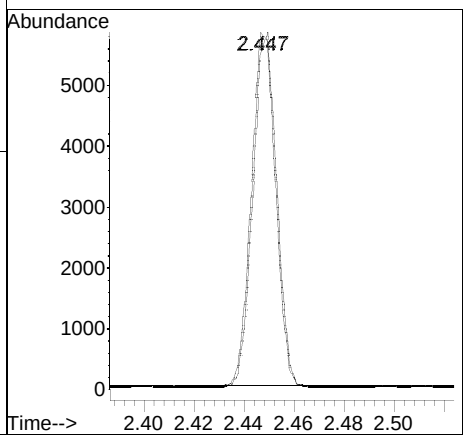


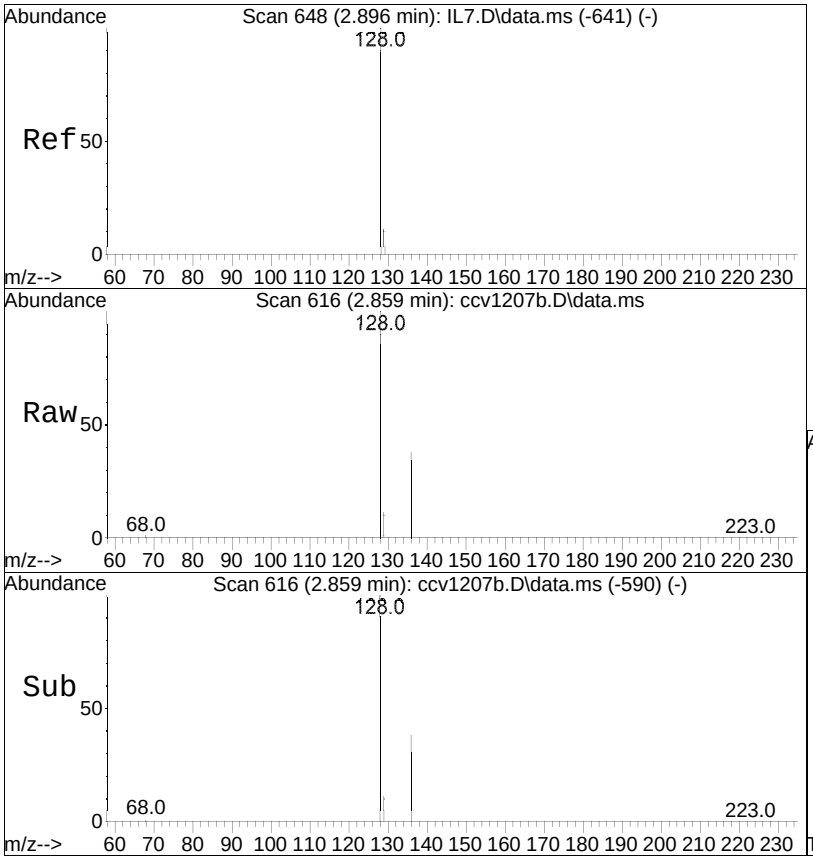


#7
Hexachloroethane
Concen: 908.28 ng/ml
RT: 2.447 min Scan# 479
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:117 Resp: 3816

Ion	Ratio	Lower	Upper
117	100		
201	98.5	81.9	122.9

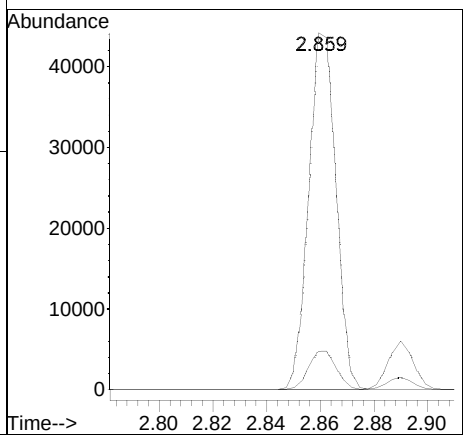


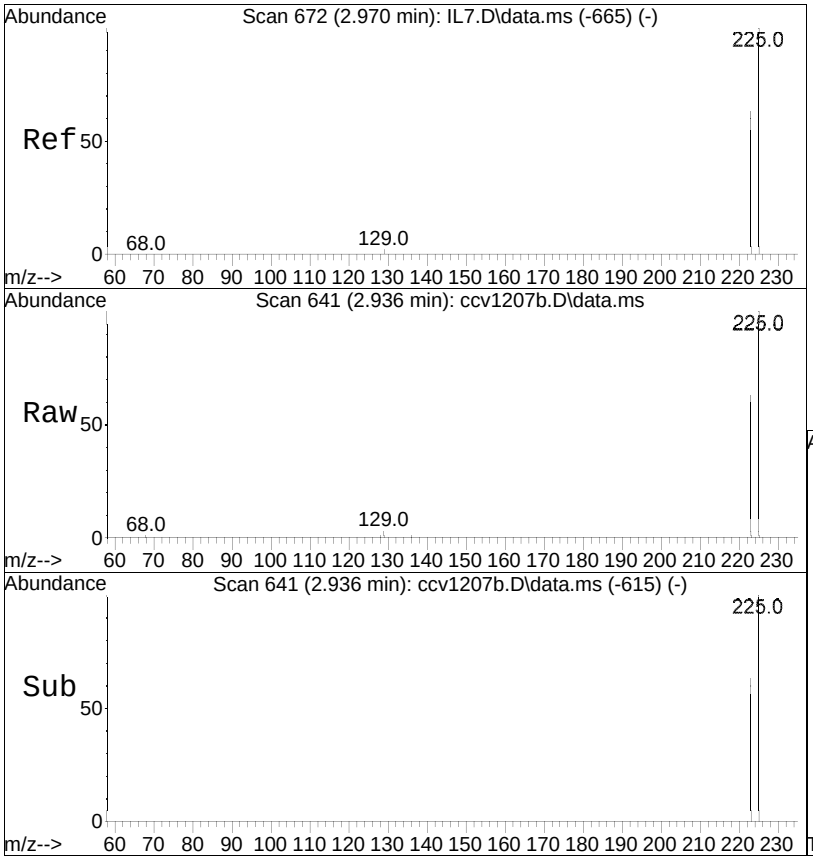


#10
Naphthalene
Concen: 912.50 ng/ml
RT: 2.859 min Scan# 616
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:128 Resp: 30687

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	0.0	0.0	0.0

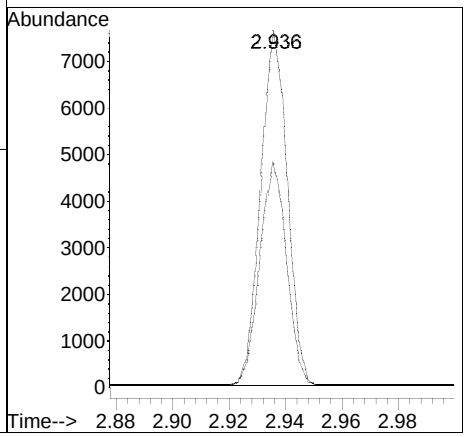


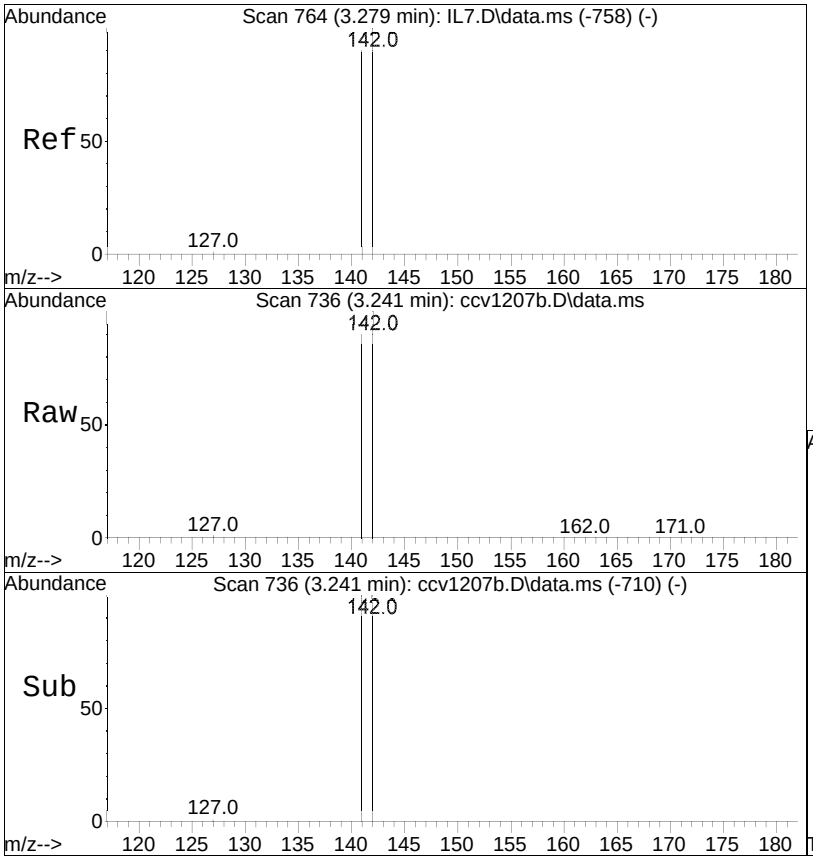


#11
Hexachlorobutadiene
Concen: 813.12 ng/ml
RT: 2.936 min Scan# 641
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:225 Resp: 4930

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.2

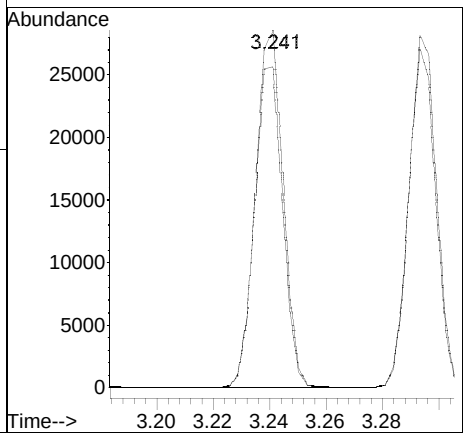


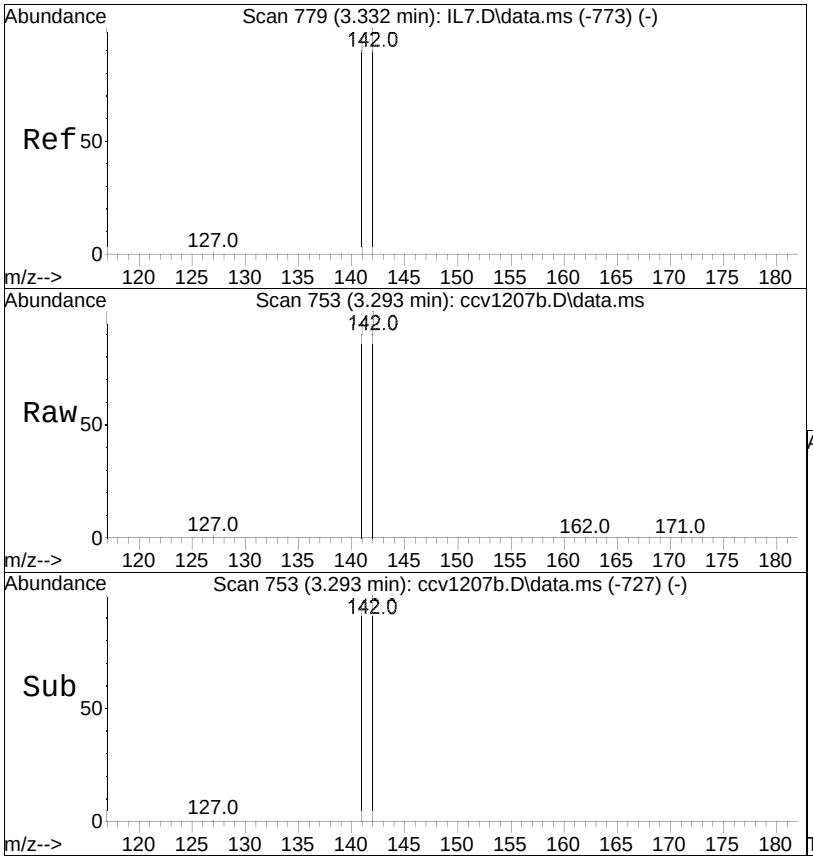


#12
2-Methylnaphthalene
Concen: 895.41 ng/ml
RT: 3.241 min Scan# 736
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:142 Resp: 19330

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.6	110.4

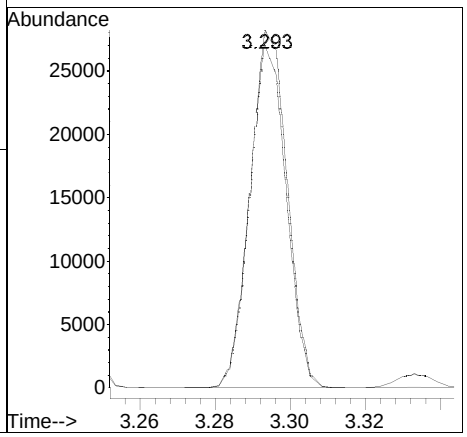


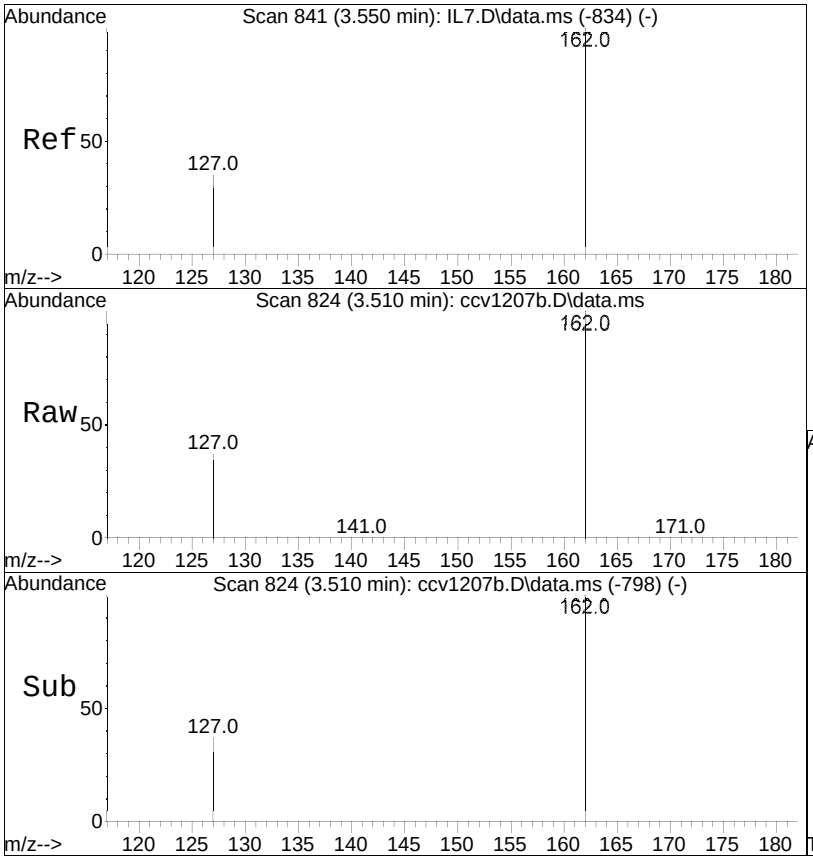


#13
1-Methylnaphthalene
Concen: 940.48 ng/ml
RT: 3.293 min Scan# 753
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:142 Resp: 18918

Ion	Ratio	Lower	Upper
142	100		
141	95.3	76.1	114.1

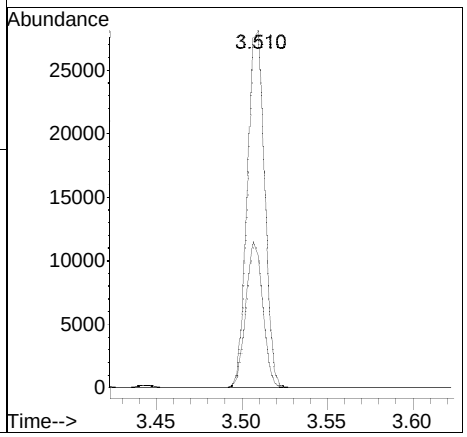


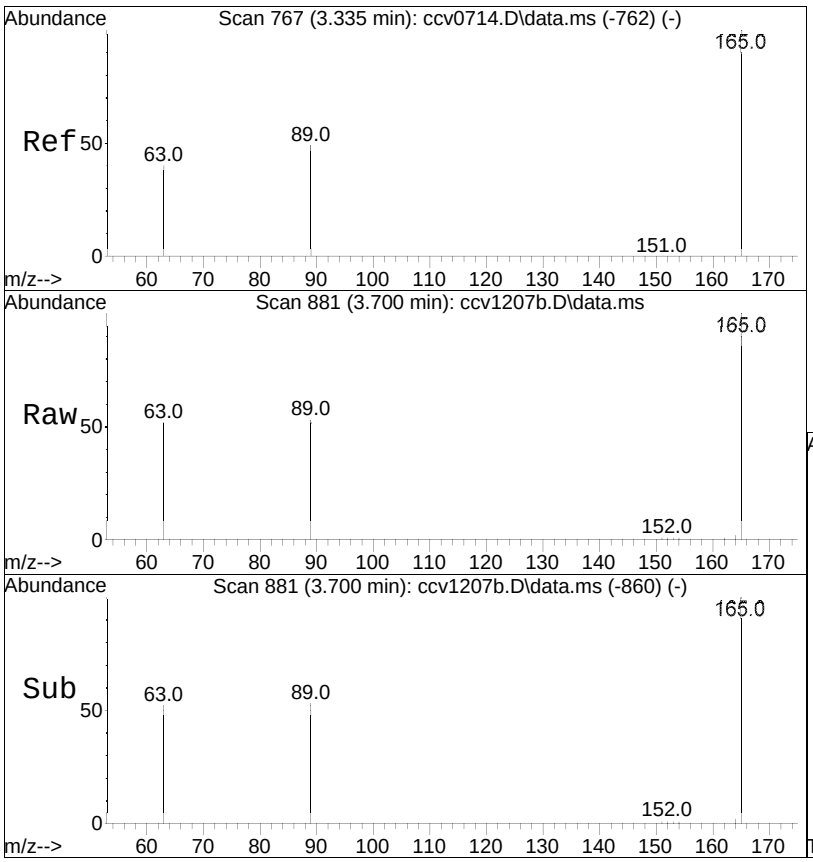


#15
2-Chloronaphthalene
Concen: 875.02 ng/ml
RT: 3.510 min Scan# 824
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:162 Resp: 19337

Ion	Ratio	Lower	Upper
162	100		
127	39.7	29.1	43.7

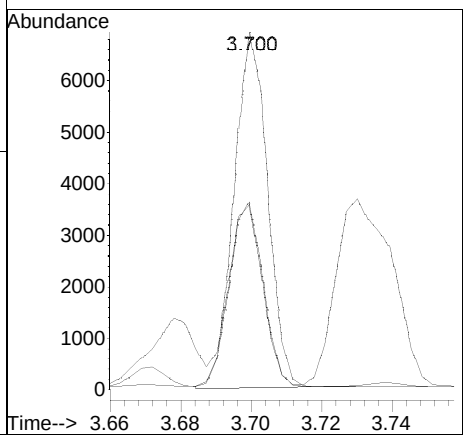


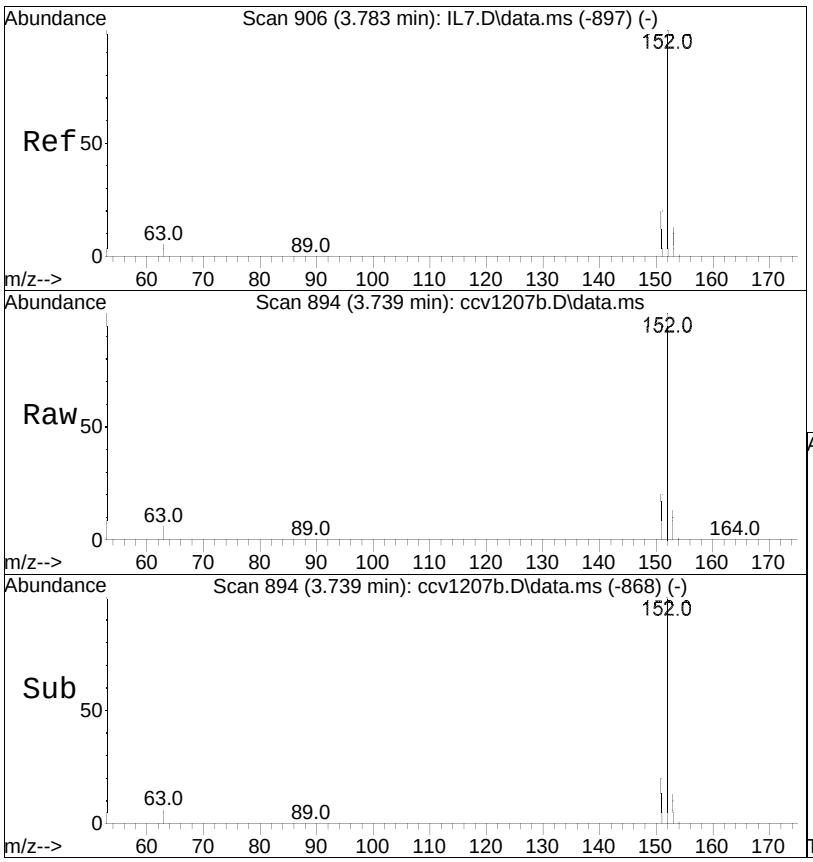


#16
2,6-Dinitrotoluene
Concen: 1010.47 ng/ml
RT: 3.700 min Scan# 881
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:165 Resp: 4541

Ion	Ratio	Lower	Upper
165	100		
89	52.2	47.8	71.6
63	53.1	45.2	67.8

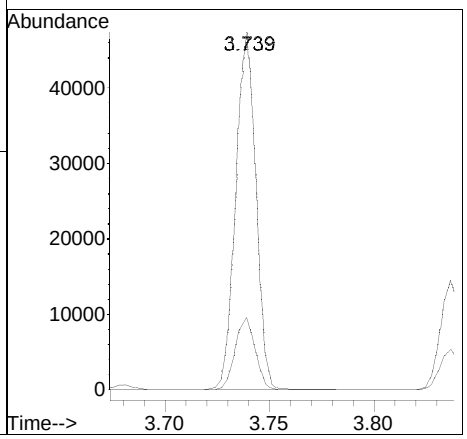


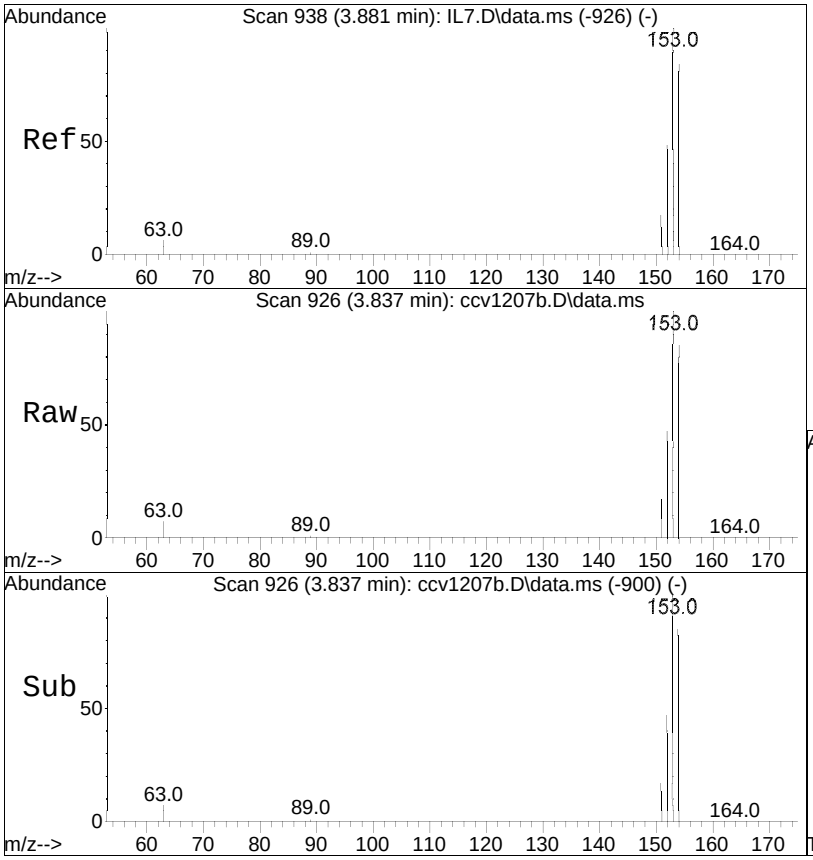


#17
Acenaphthylene
Concen: 970.17 ng/ml
RT: 3.739 min Scan# 894
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:152 Resp: 31559

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8

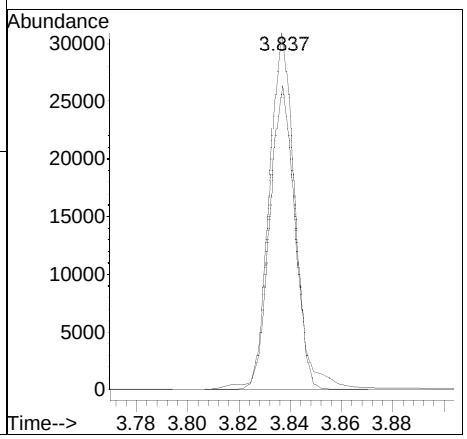


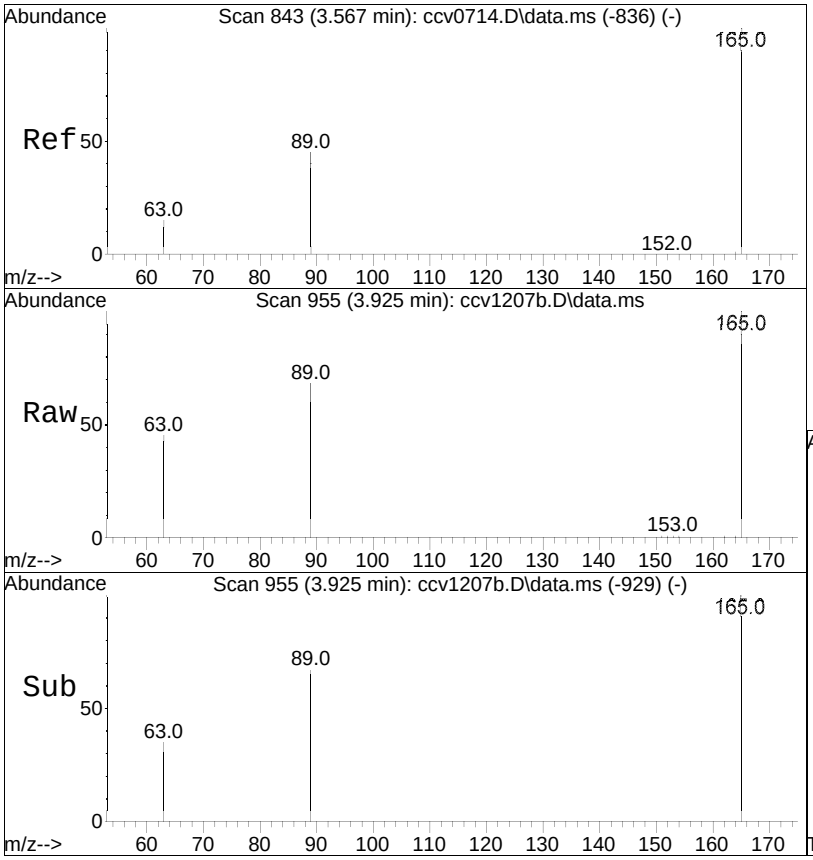


#19
Acenaphthene
Concen: 846.52 ng/ml
RT: 3.837 min Scan# 926
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:153 Resp: 20415

Ion	Ratio	Lower	Upper
153	100		
154	91.5	70.8	106.2

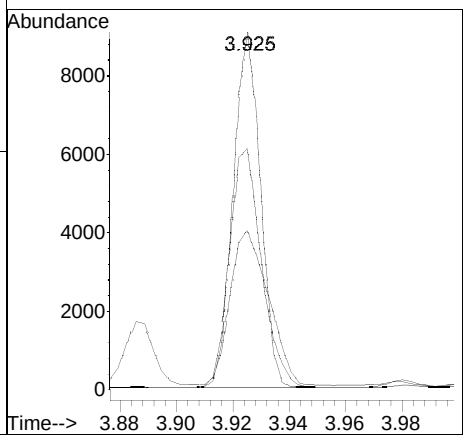


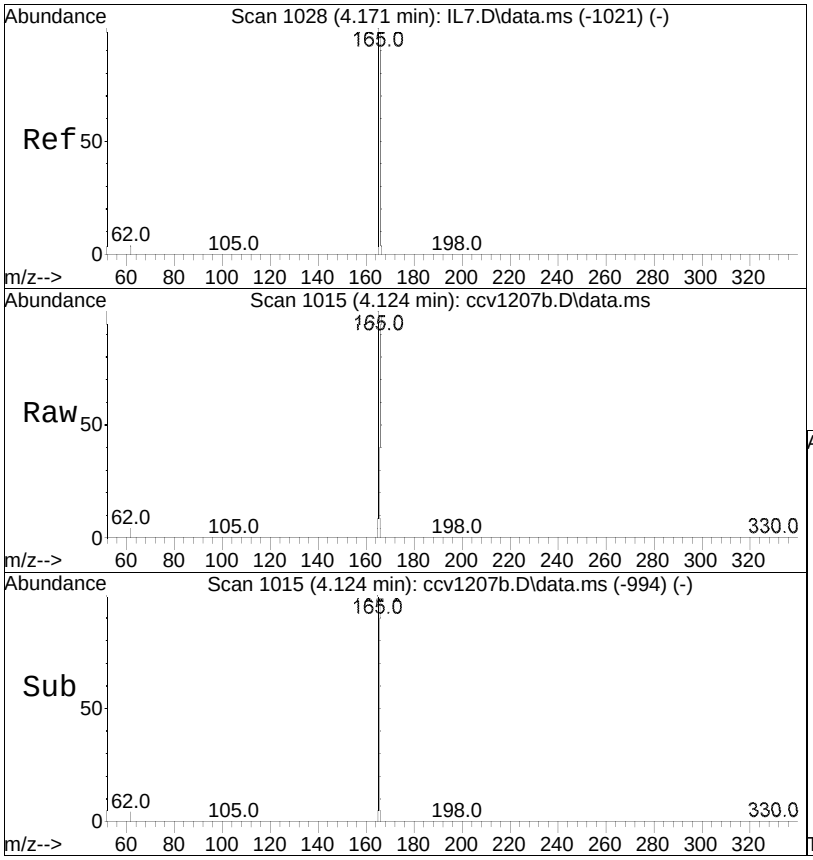


#20
2,4-Dinitrotoluene
Concen: 1066.49 ng/ml
RT: 3.925 min Scan# 955
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:165 Resp: 5985

Ion	Ratio	Lower	Upper
165	100		
89	79.3	71.2	106.8
63	61.8	59.4	89.0

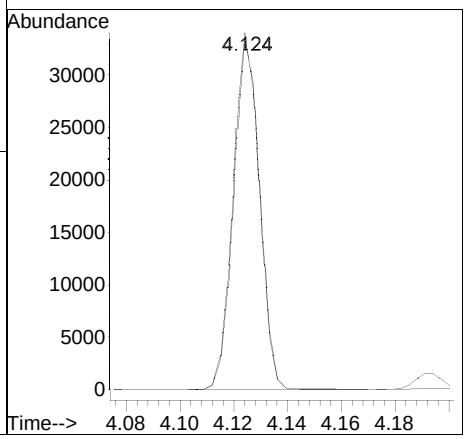


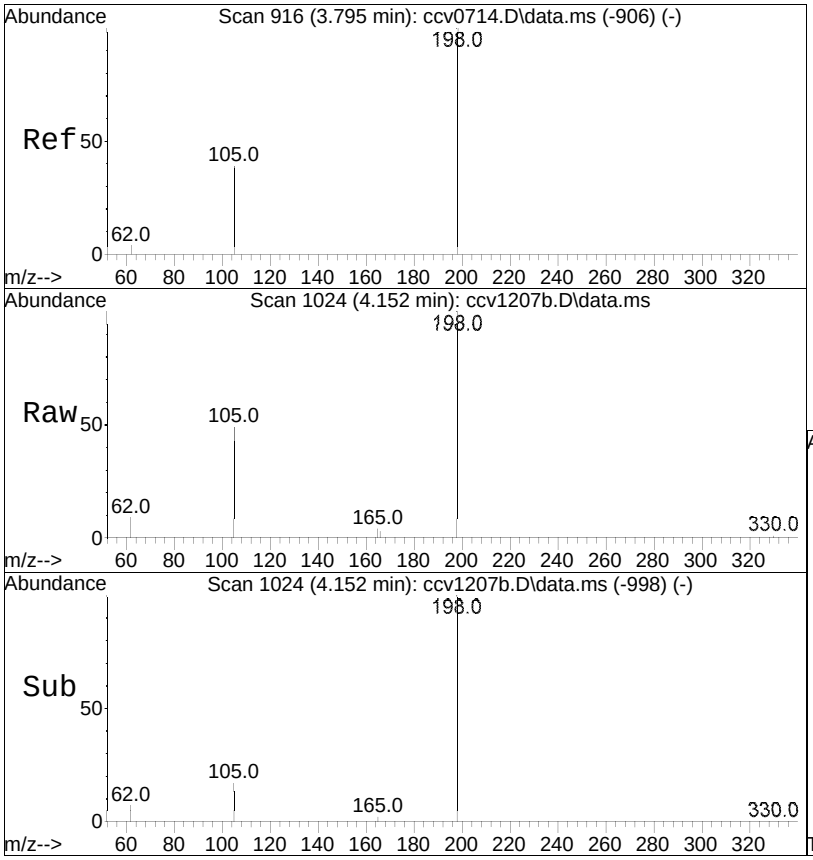


#21
Fluorene
Concen: 884.44 ng/ml
RT: 4.124 min Scan# 1015
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:166 Resp: 22496

Ion	Ratio	Lower	Upper
166	100		
165	101.1	81.0	121.4

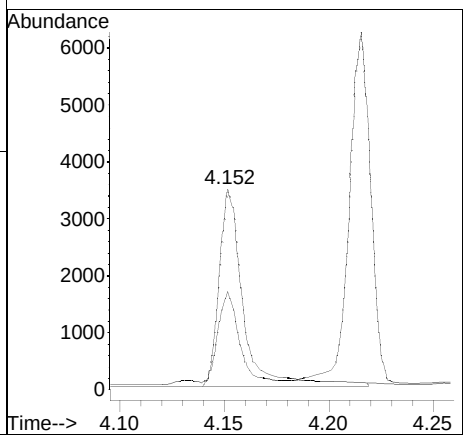


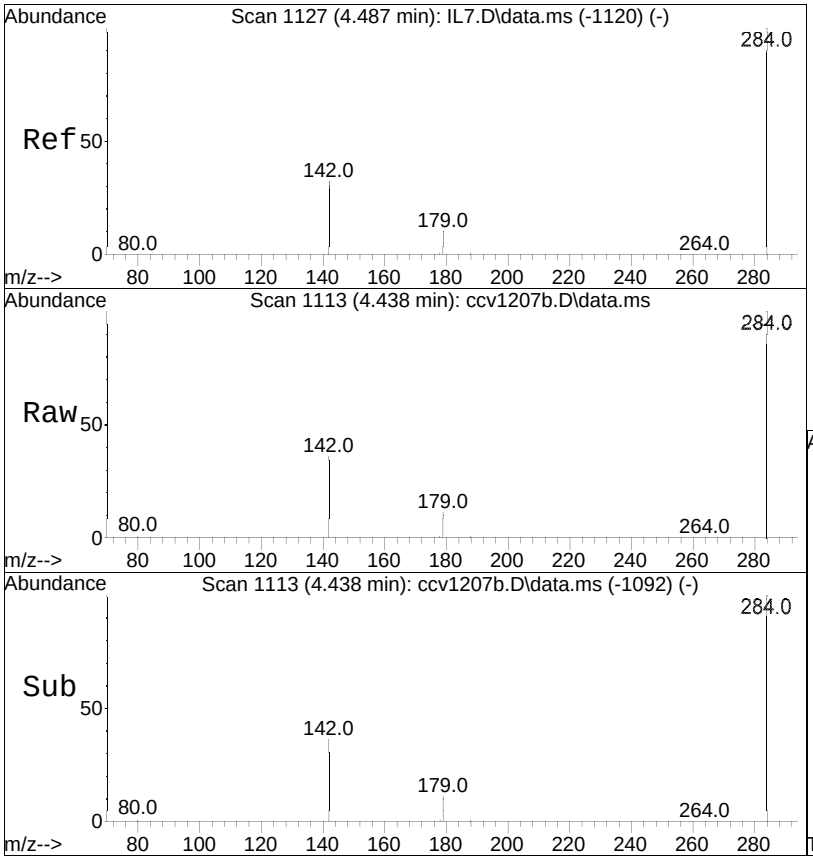


#24
4,6-Dinitro-o-cresol
Concen: 1088.11 ng/ml
RT: 4.152 min Scan# 1024
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:198 Resp: 2826

Ion	Ratio	Lower	Upper
198	100		
105	40.1	29.6	44.4

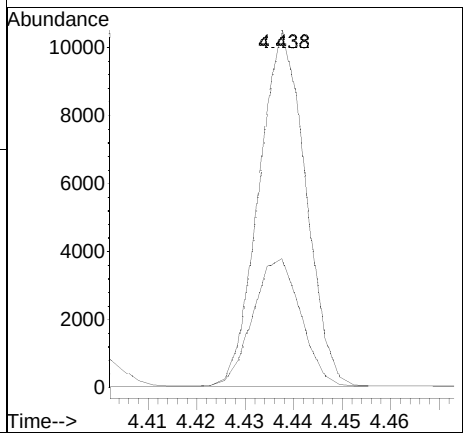


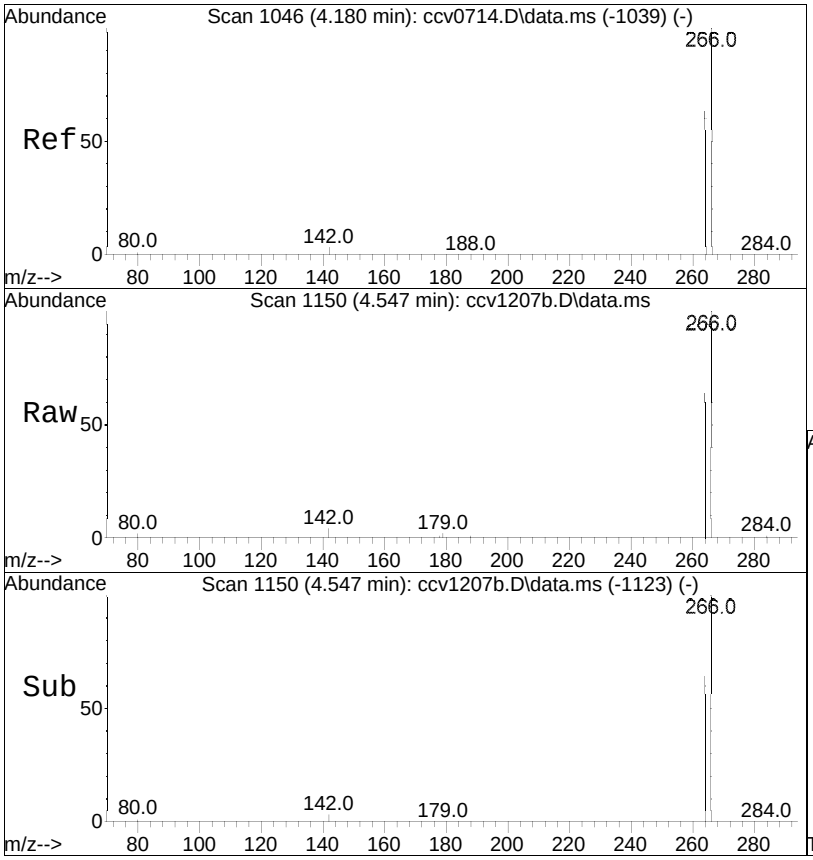


#25
Hexachlorobenzene
Concen: 783.90 ng/ml M6
RT: 4.438 min Scan# 1113
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:284 Resp: 6910

Ion	Ratio	Lower	Upper
284	100		
142	37.5	27.7	41.5

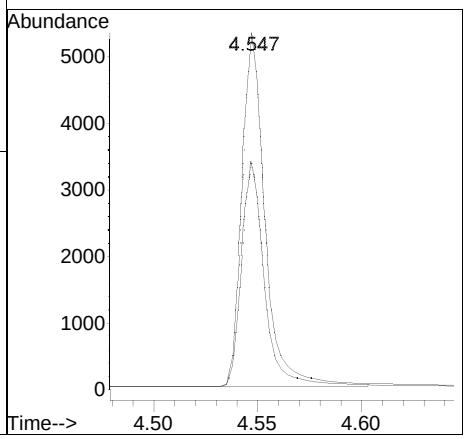


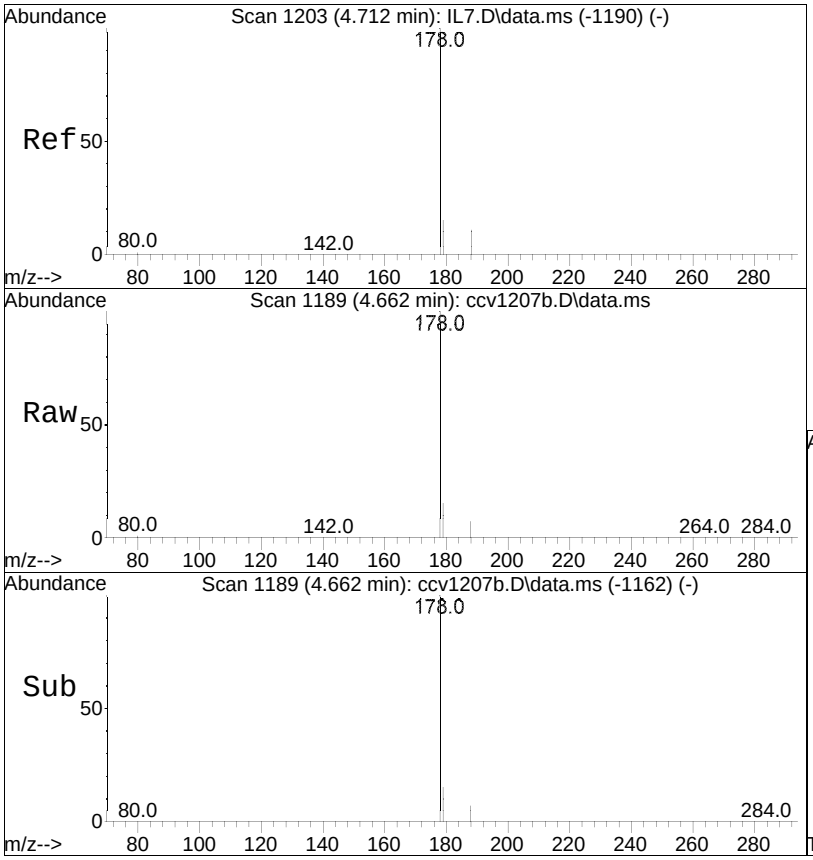


#26
Pentachlorophenol
Concen: 1116.72 ng/ml
RT: 4.547 min Scan# 1150
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:266 Resp: 4069

Ion	Ratio	Lower	Upper
266	100		
264	63.6	50.9	76.3

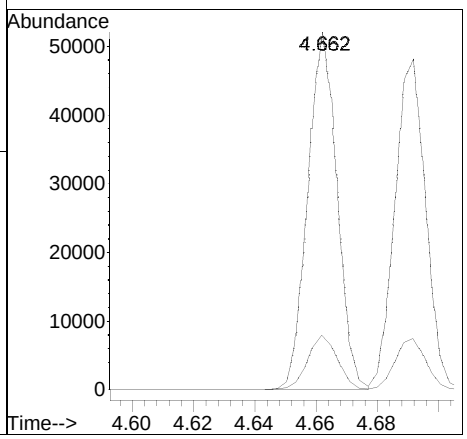


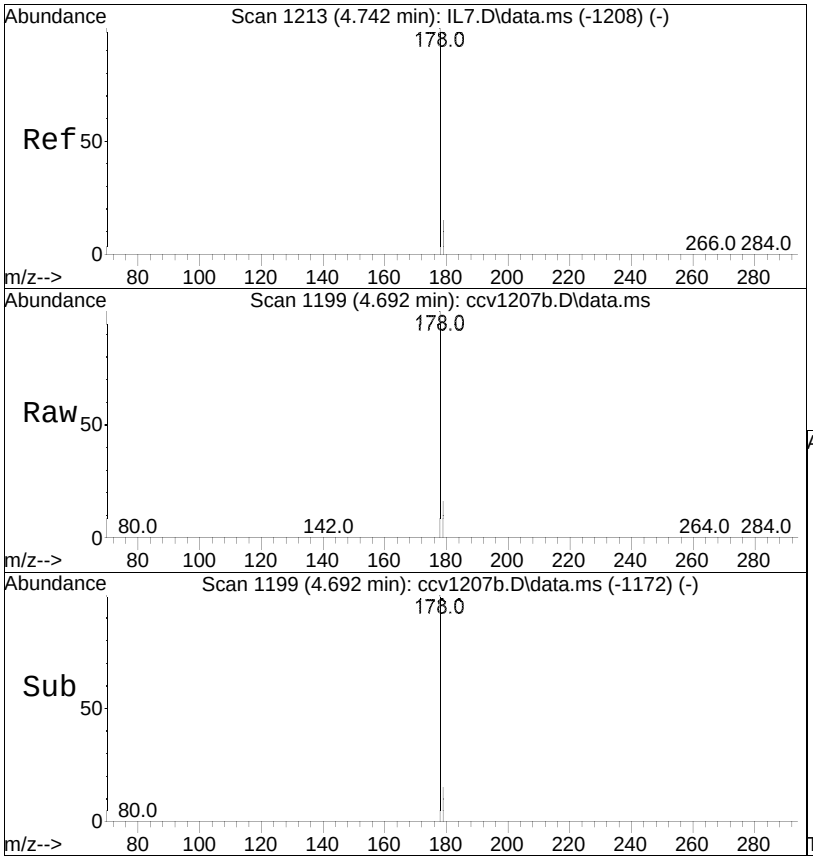


#27
Phenanthrene
Concen: 905.66 ng/ml
RT: 4.662 min Scan# 1189
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:178 Resp: 34526

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

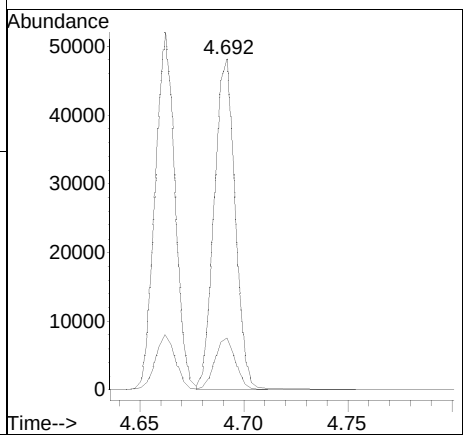


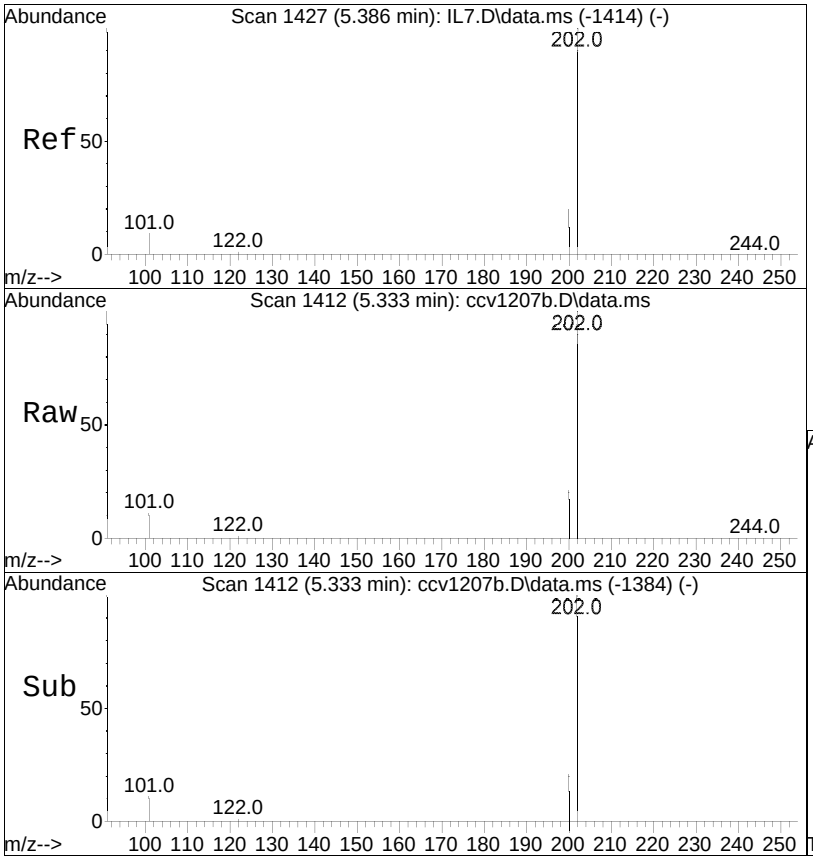


#28
Anthracene
Concen: 942.10 ng/ml
RT: 4.692 min Scan# 1199
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:178 Resp: 33617

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

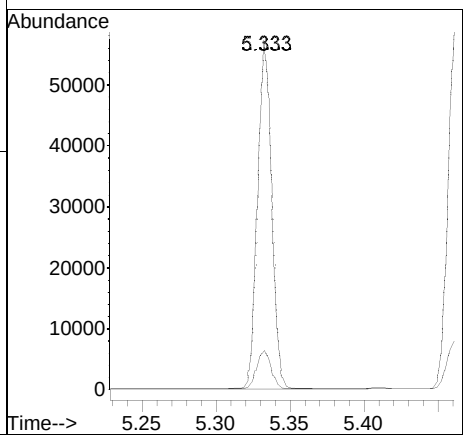


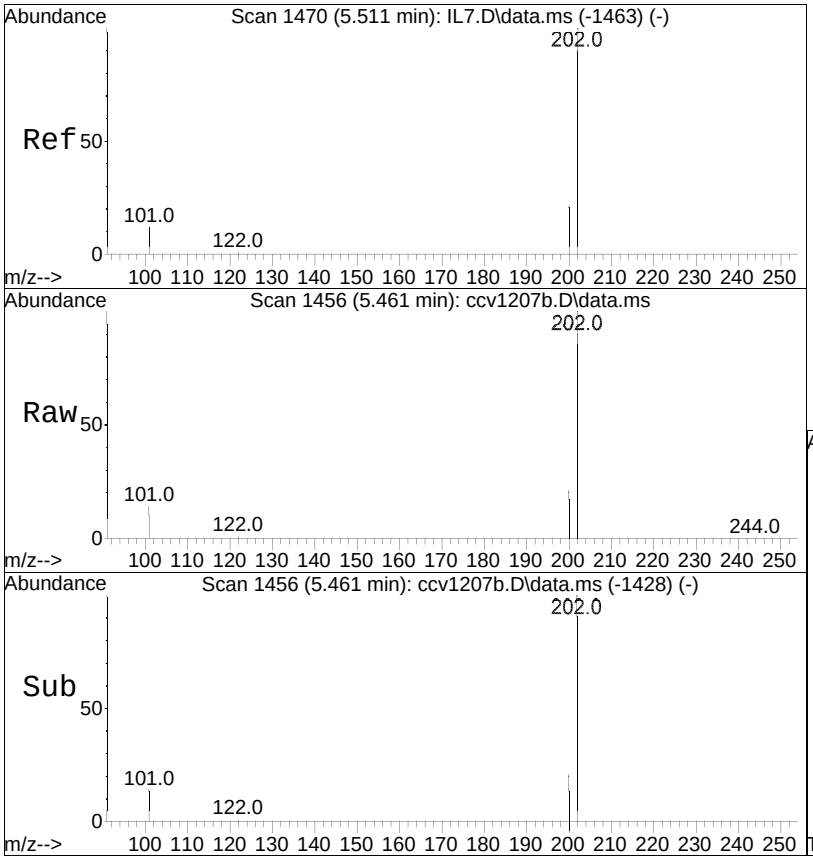


#29
Fluoranthene
Concen: 914.14 ng/ml
RT: 5.333 min Scan# 1412
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:202 Resp: 38321

Ion	Ratio	Lower	Upper
202	100		
101	11.5	7.8	11.8

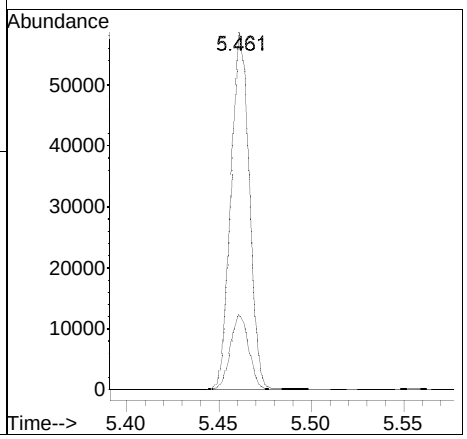


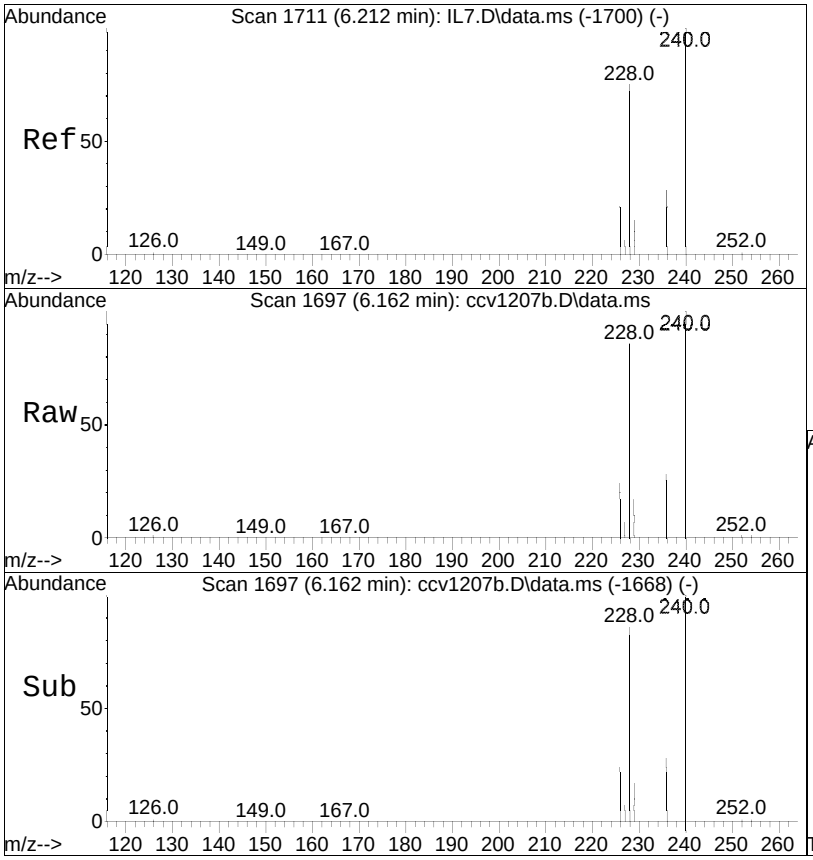


#30
Pyrene
Concen: 911.48 ng/ml
RT: 5.461 min Scan# 1456
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:202 Resp: 40032

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4

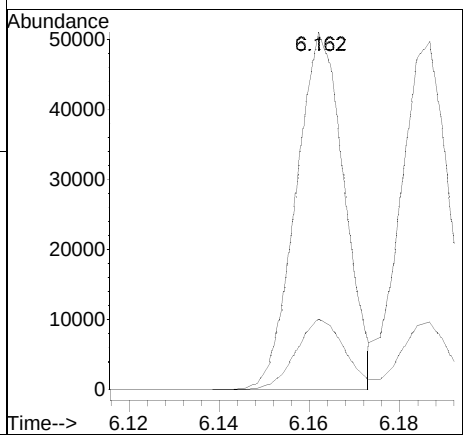


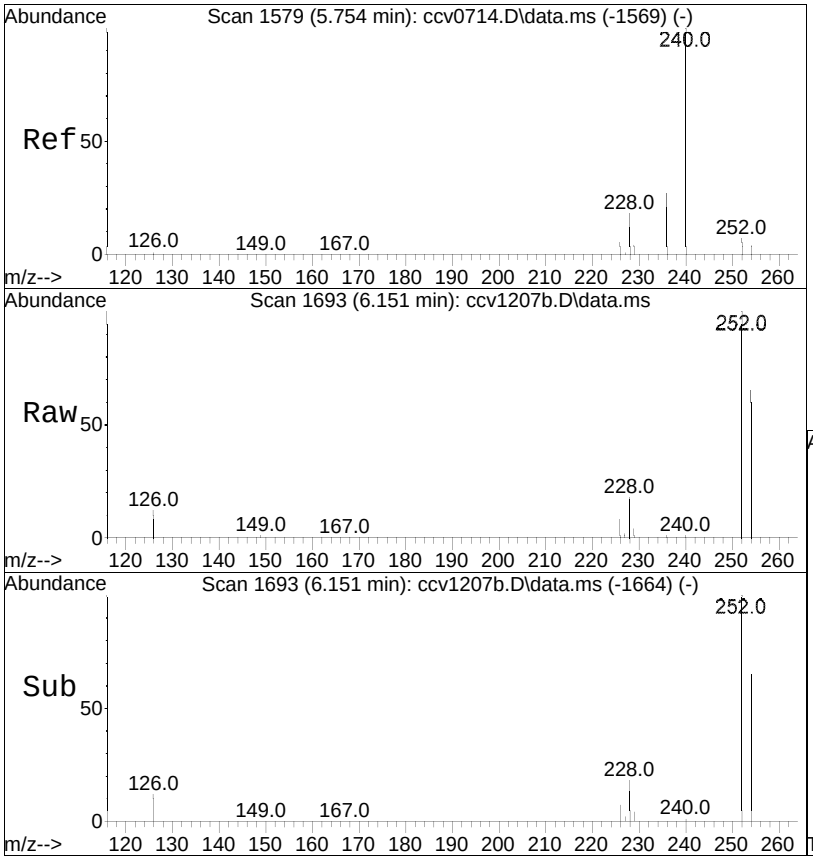


#33
Benzo[a]anthracene
Concen: 919.36 ng/ml
RT: 6.162 min Scan# 1697
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:228 Resp: 37981

Ion	Ratio	Lower	Upper
228	100		
229	19.7	15.6	23.4

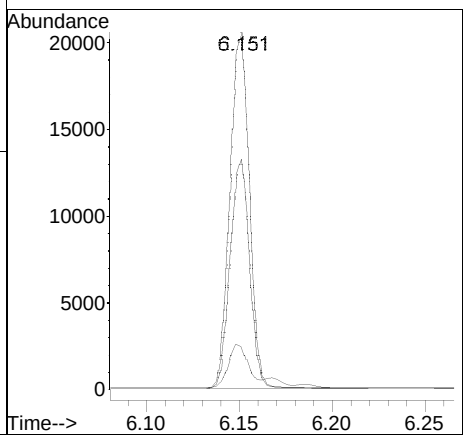


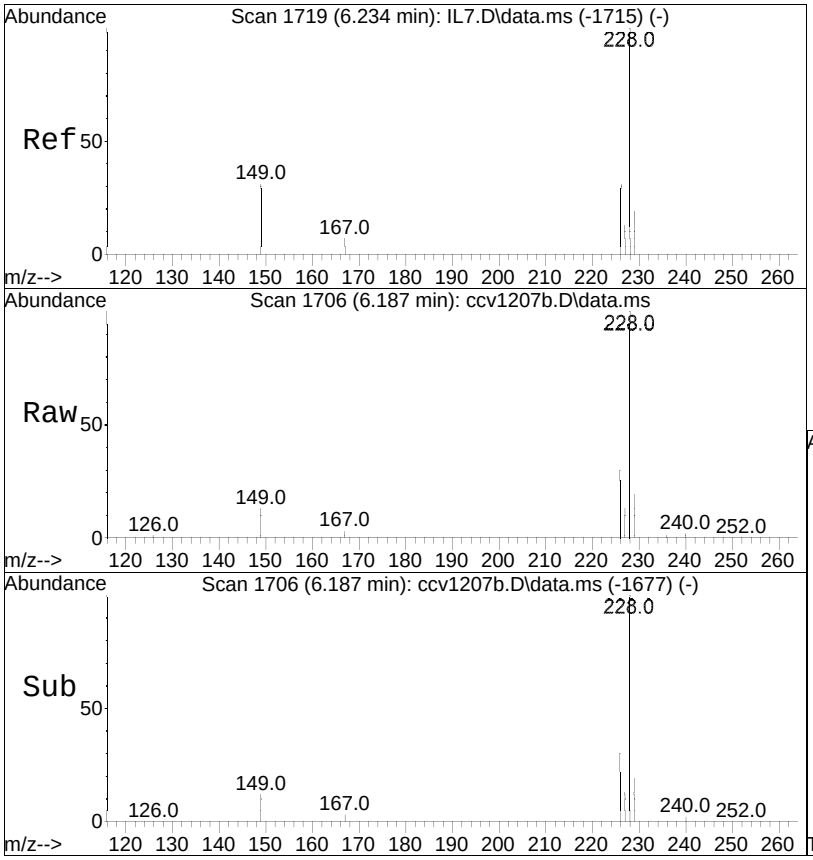


#34
3,3'-Dichlorobenzene
Concen: 1055.83 ng/ml
RT: 6.151 min Scan# 1693
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:252 Resp: 14673

Ion	Ratio	Lower	Upper
252	100		
126	13.1	8.4	12.6#
254	64.5	51.9	77.9

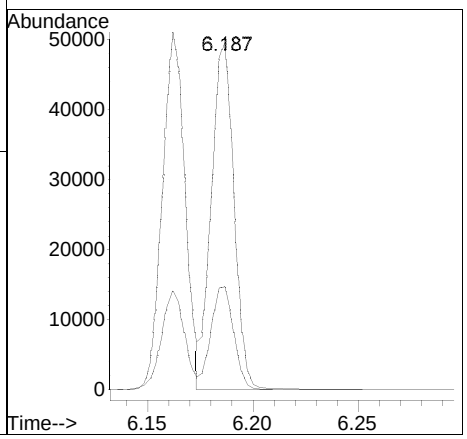


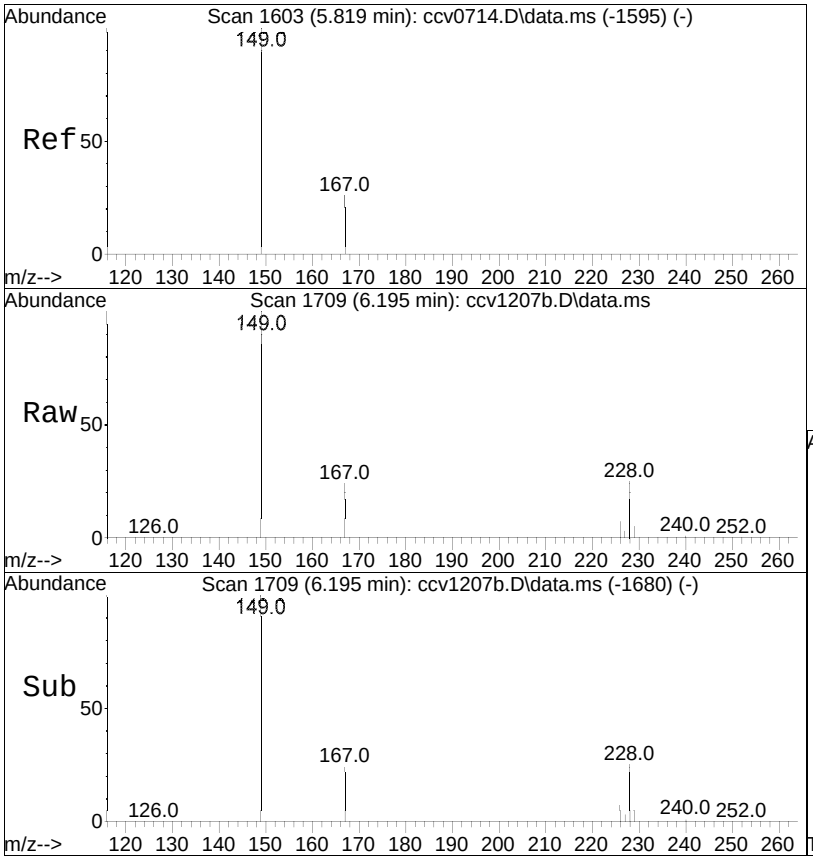


#35
Chrysene
Concen: 867.70 ng/ml
RT: 6.187 min Scan# 1706
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:228 Resp: 36849

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.2	36.2

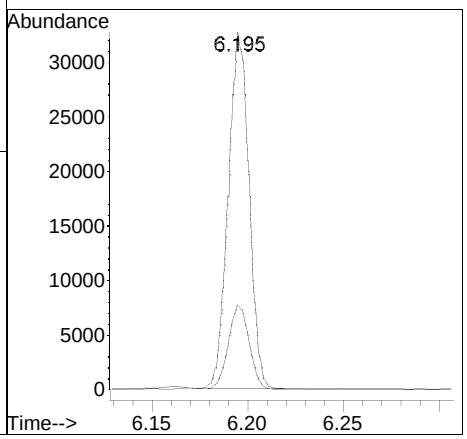


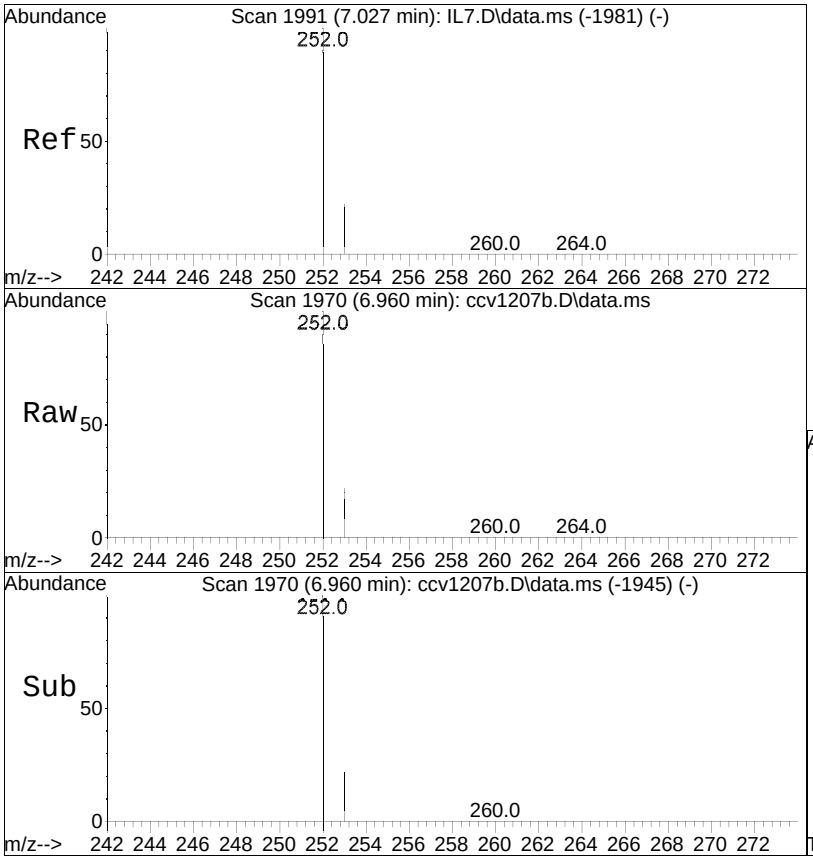


#36
Bis(2-ethylhexyl)phthalate
Concen: 1275.56 ng/ml
RT: 6.195 min Scan# 1709
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:149 Resp: 24254

Ion	Ratio	Lower	Upper
149	100		
167	23.6	19.8	29.6

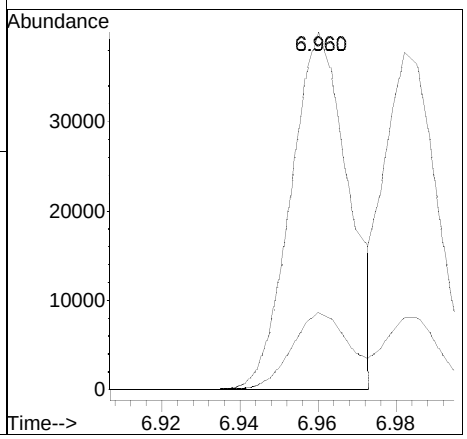


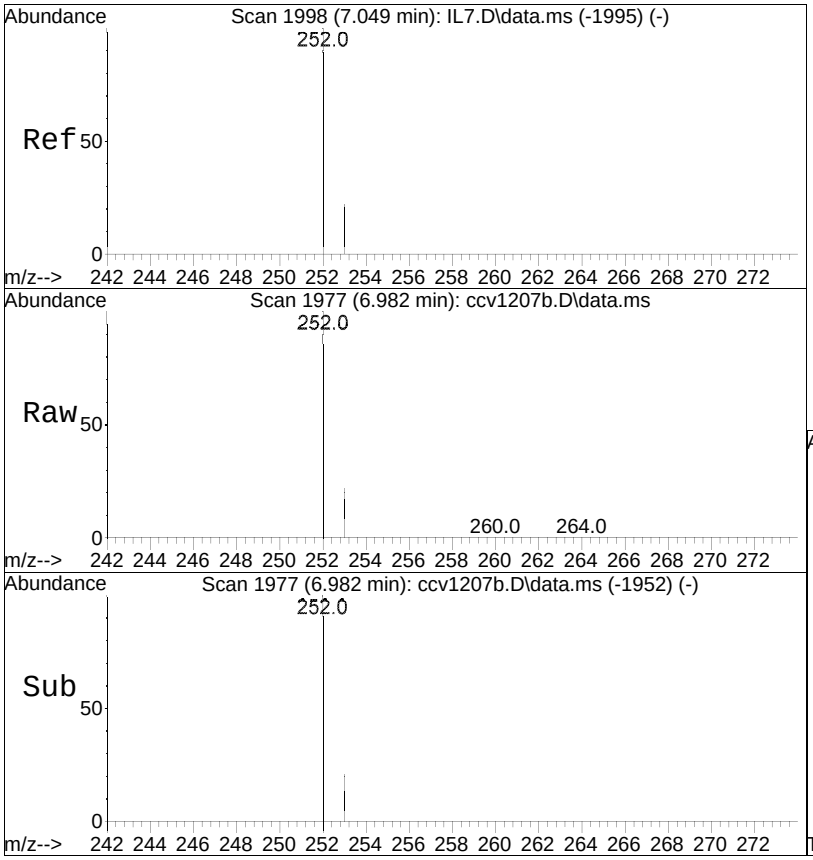


#38
Benzo[b]fluoranthene
Concen: 1026.13 ng/ml
RT: 6.960 min Scan# 1970
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:252 Resp: 41370

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8

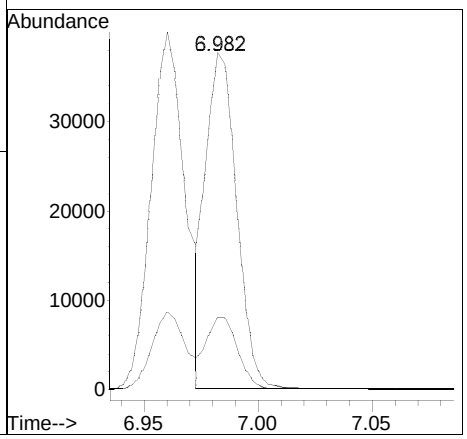


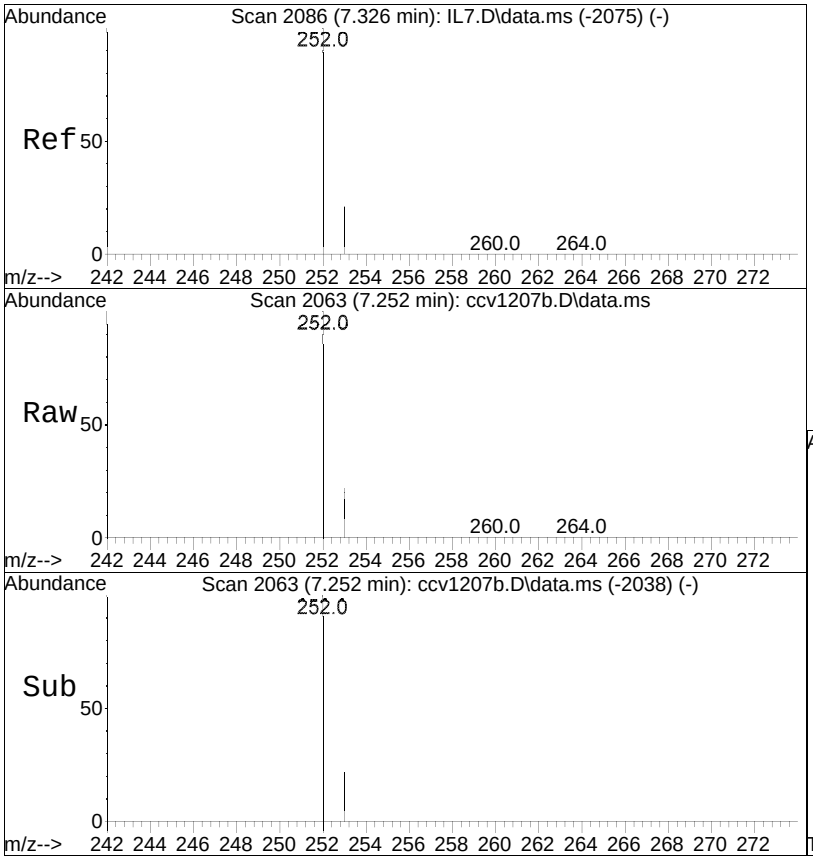


#39
Benzo[k]fluoranthene
Concen: 887.39 ng/ml
RT: 6.982 min Scan# 1977
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:252 Resp: 35495

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3

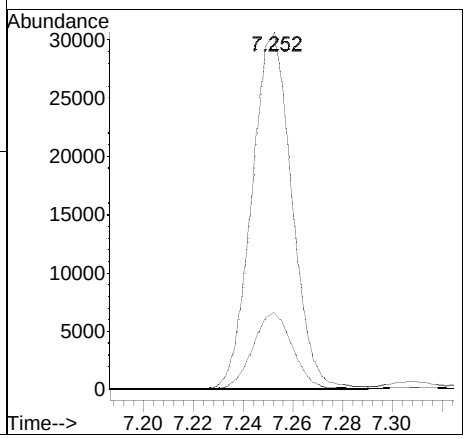


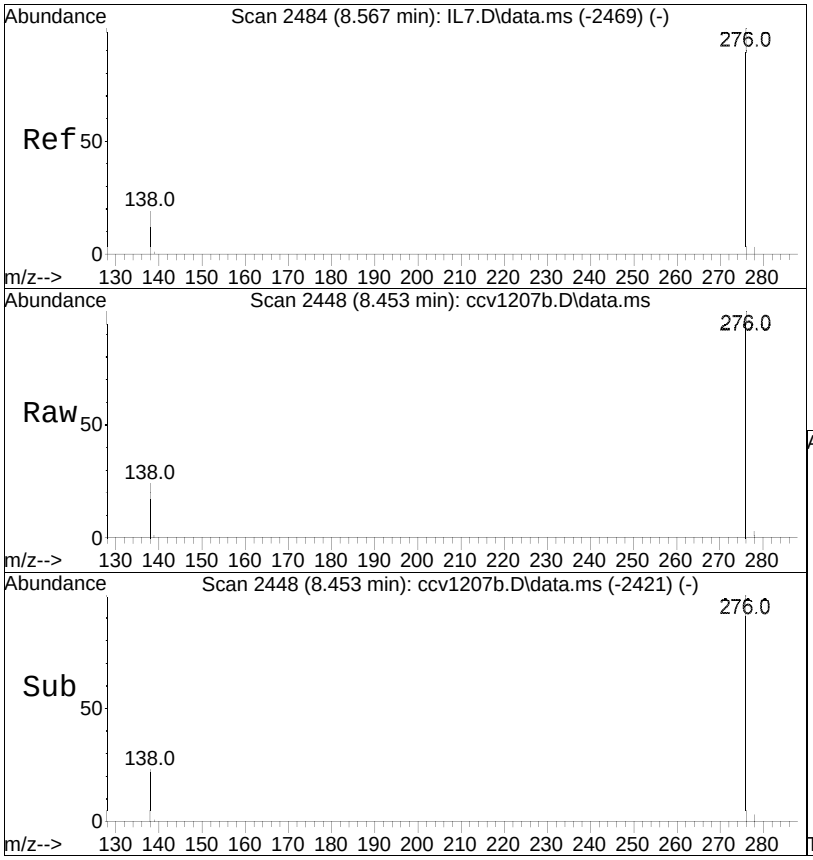


#40
Benzo[a]pyrene
Concen: 952.80 ng/ml
RT: 7.252 min Scan# 2063
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:252 Resp: 33673

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.2	25.8

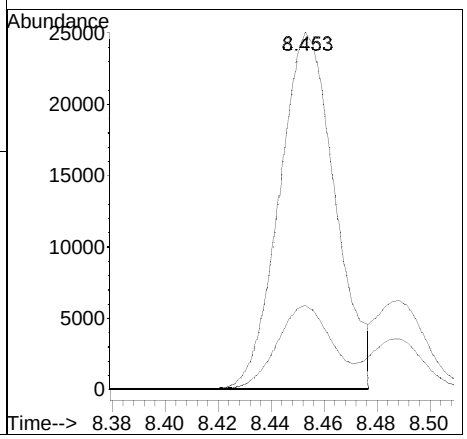


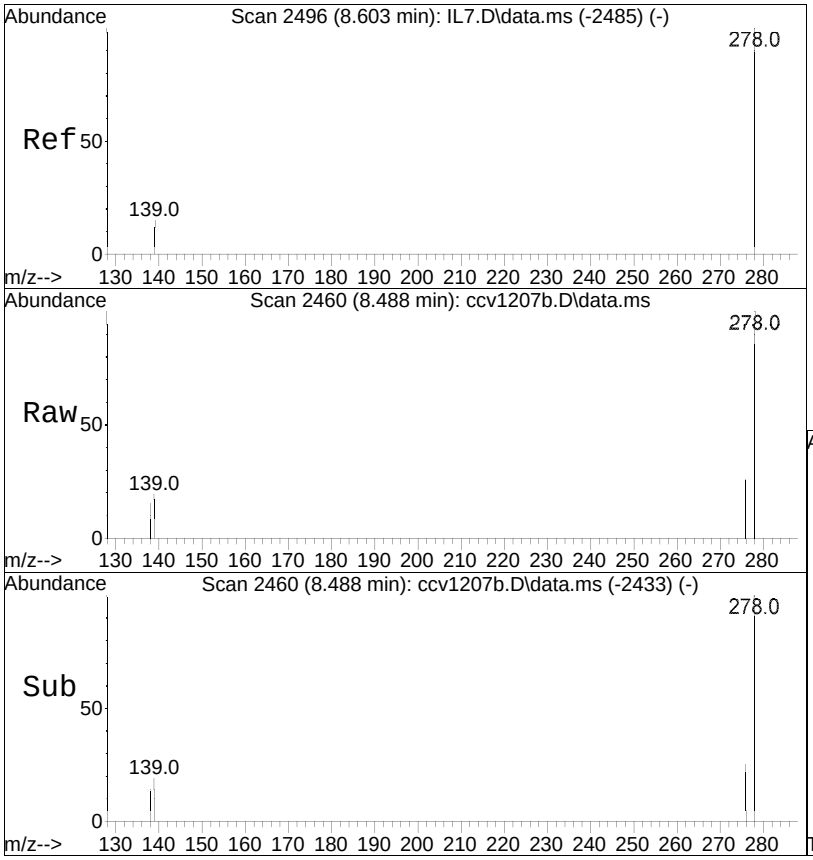


#41
Indeno[1,2,3-cd]pyrene
Concen: 992.93 ng/ml
RT: 8.453 min Scan# 2448
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:276 Resp: 36526

Ion	Ratio	Lower	Upper
276	100		
138	23.0	14.5	21.7#

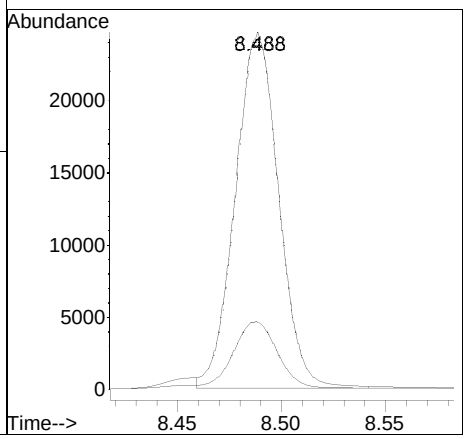


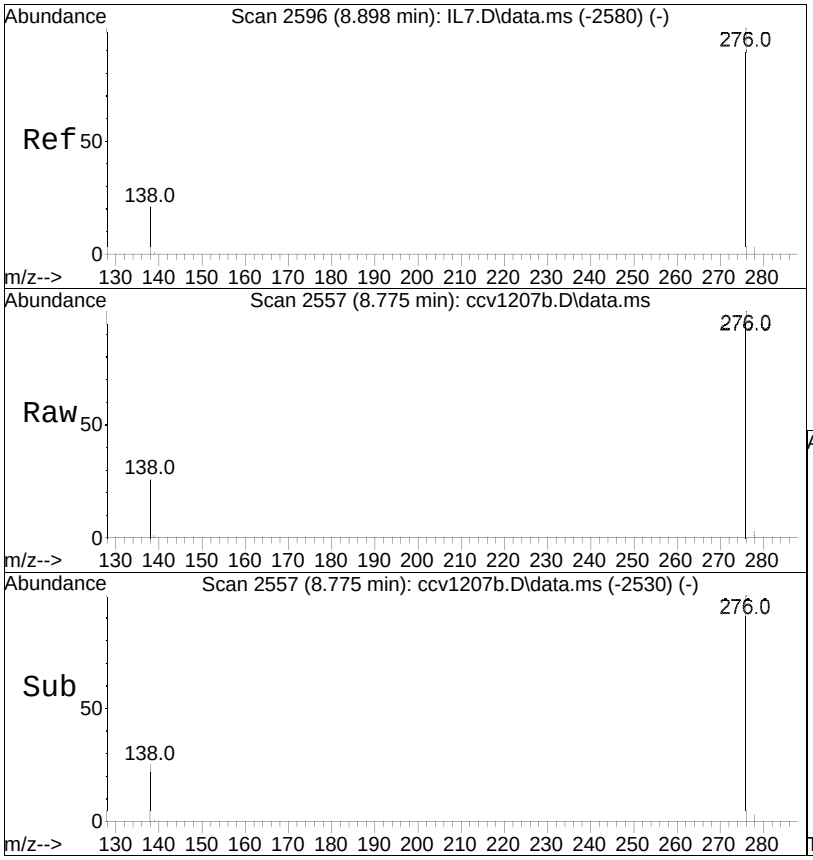


#42
Dibenzo[a,h]anthracene
Concen: 999.11 ng/ml M6
RT: 8.488 min Scan# 2460
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:278 Resp: 35554

Ion	Ratio	Lower	Upper
278	100		
139	20.0	13.0	19.4#

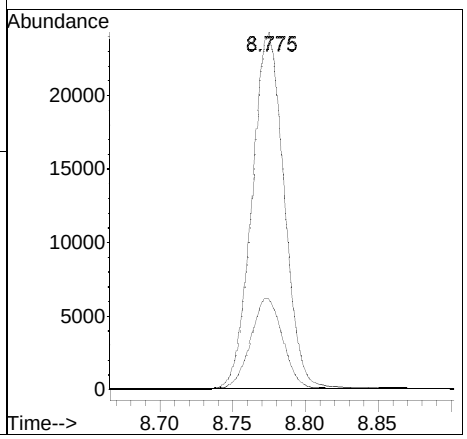




#43
Benzo[g,h,i]perylene
Concen: 921.18 ng/ml
RT: 8.775 min Scan# 2557
Delta R.T. 0.000 min
Lab File: ccv1207b.D
Acq: 07 Dec 2023 11:43 am

Tgt Ion:276 Resp: 36649

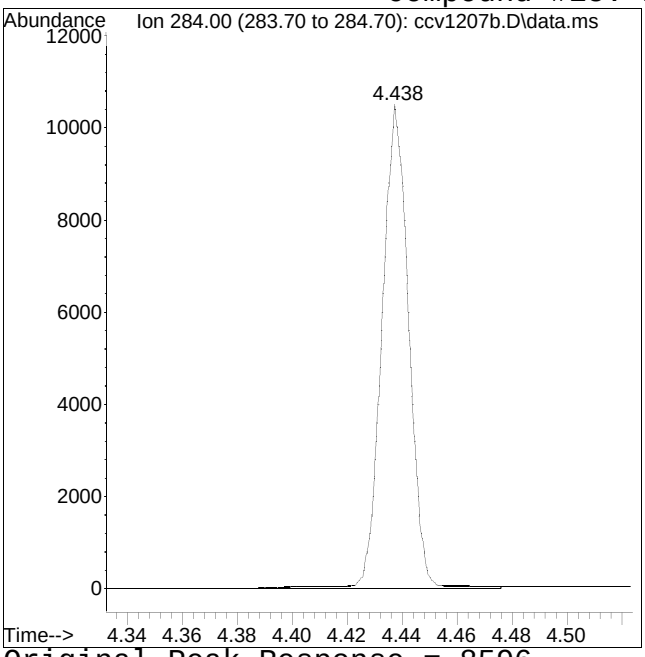
Ion	Ratio	Lower	Upper
276	100		
138	25.7	16.5	24.7#



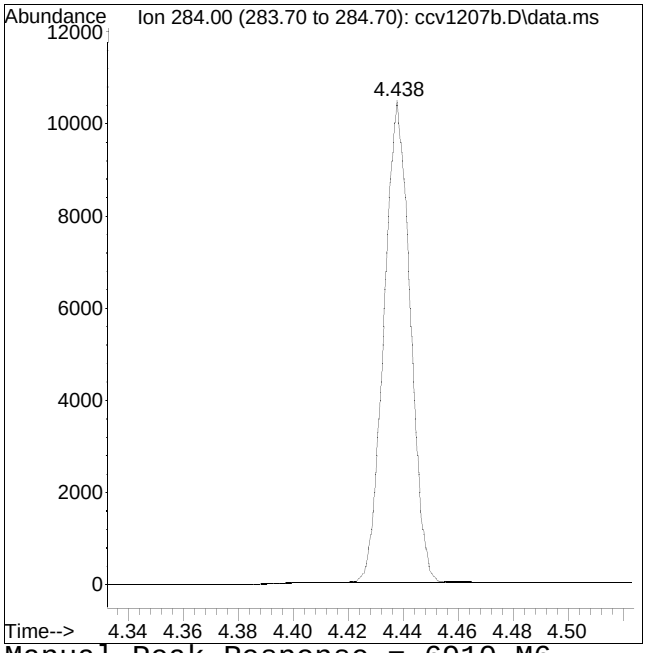
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : ccv1207b.D Operator : SV125:jjw
Date Inj'd : 12/7/2023 11:43 am Instrument : SV125
Sample : WG1861049-3,32,,ICV #10193Quant Date : 12/7/2023 12:12 pm

Compound #25: Hexachlorobenzene



Original Peak Response = 8596



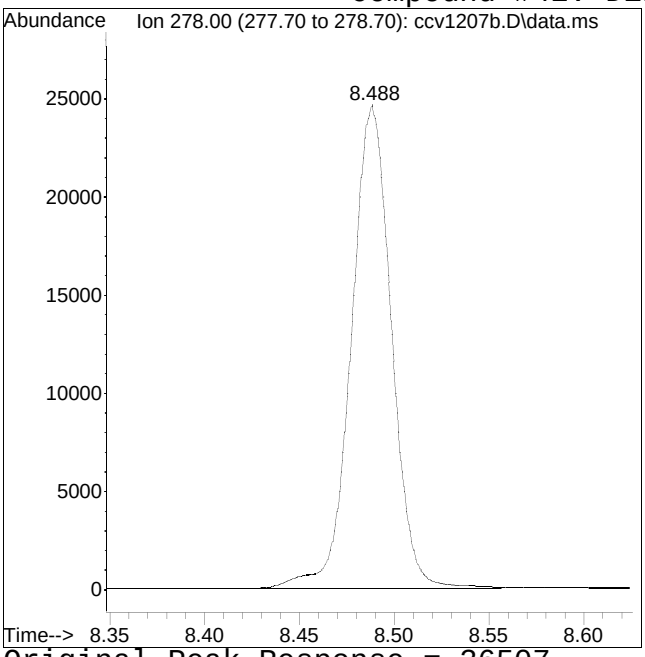
Manual Peak Response = 6910 M6

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

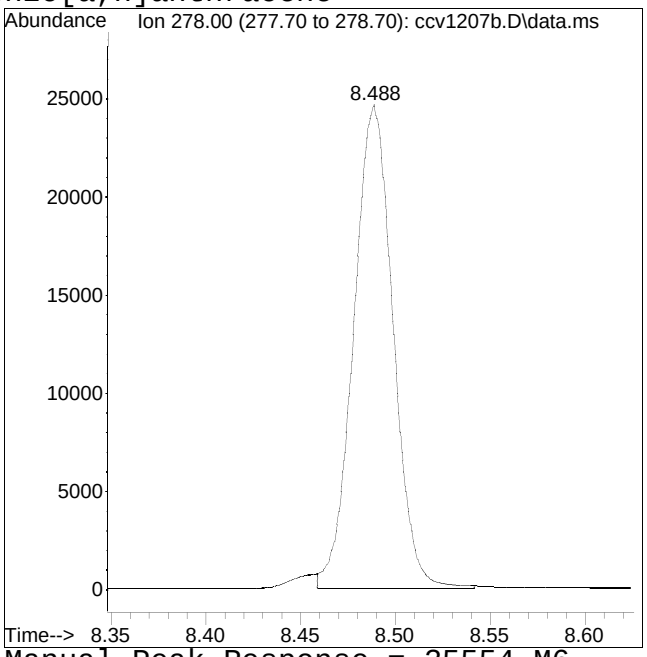
Manual Integration Report

Data Path : I:\8270SIM\SV125\231207bLVQMethod : SIM-LVI_231026_sv125.M
Data File : ccv1207b.D Operator : SV125:jjw
Date Inj'd : 12/7/2023 11:43 am Instrument : SV125
Sample : WG1861049-3,32,,ICV #10193Quant Date : 12/7/2023 12:12 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 36507



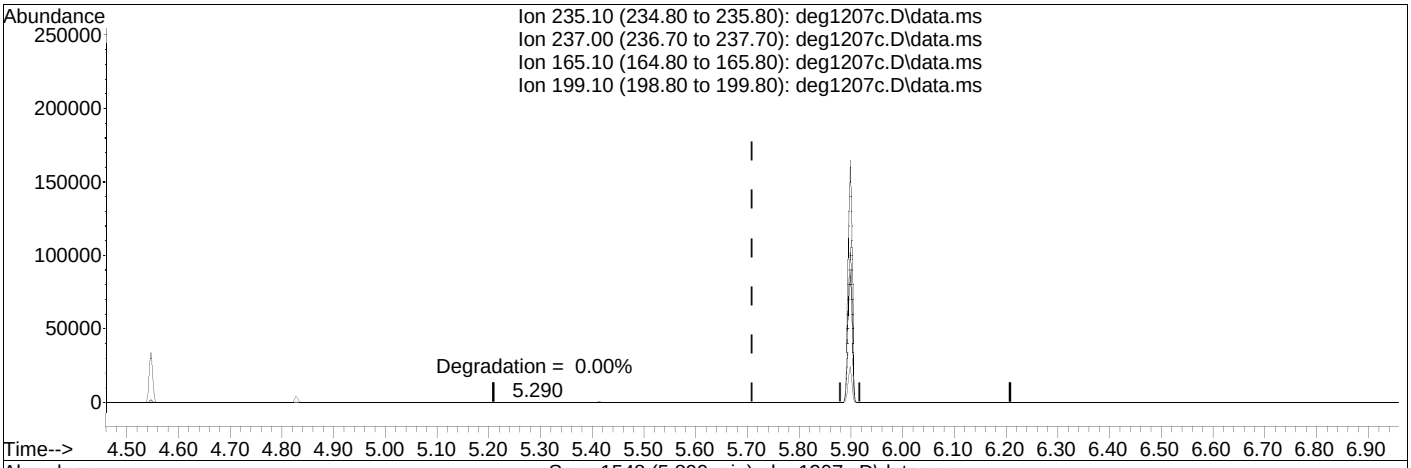
Manual Peak Response = 35554 M6

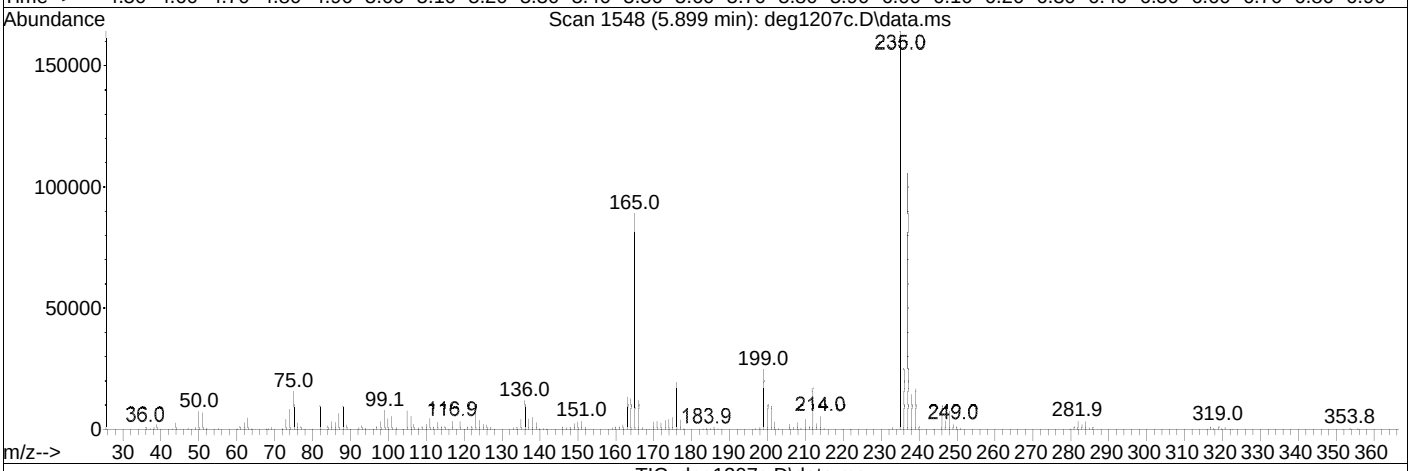
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : deg1207c.D
Acq On : 07 Dec 2023 11:27 am
Operator : SV125:jjw
Sample : WG1861049-2,32,,dftpp sv125
Misc : WG1861049,,ical20477
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 07 13:36:04 2023
Quant Method : I:\8270SIM\SV125\231207bLVI\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Nov 04 11:05:13 2023
Response via : Continuing Cal File:





TIC: deg1207c.D\data.ms

(6) ddt (T)

5.899min (+ 0.190) 13.66

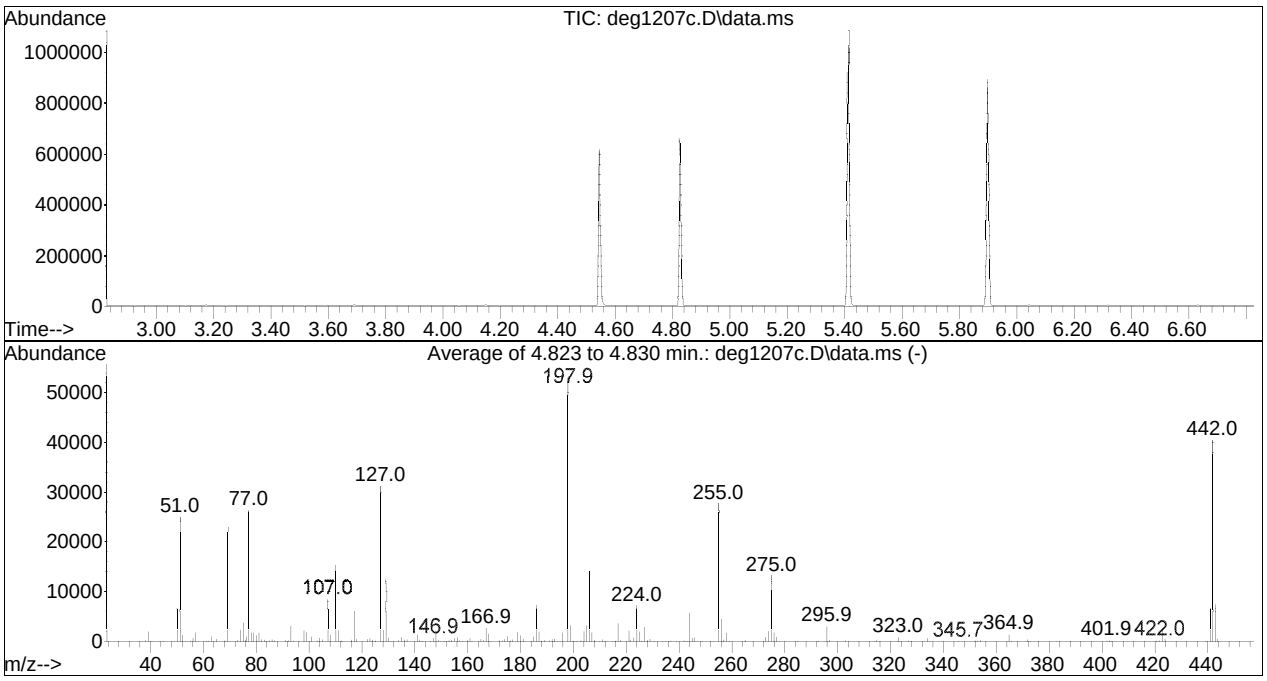
response 83244

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	64.41
165.10	53.30	54.25
199.10	17.10	15.05

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : deg1207c.D
Acq On : 07 Dec 2023 11:27 am
Operator : SV125:jjw
Sample : WG1861049-1,32,,dftpp sv125
Misc : WG1861049,,ical20477
ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\SV125\231207bLVI\SIM-LVI_231026_sv125.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Dec 07 12:12:27 2023



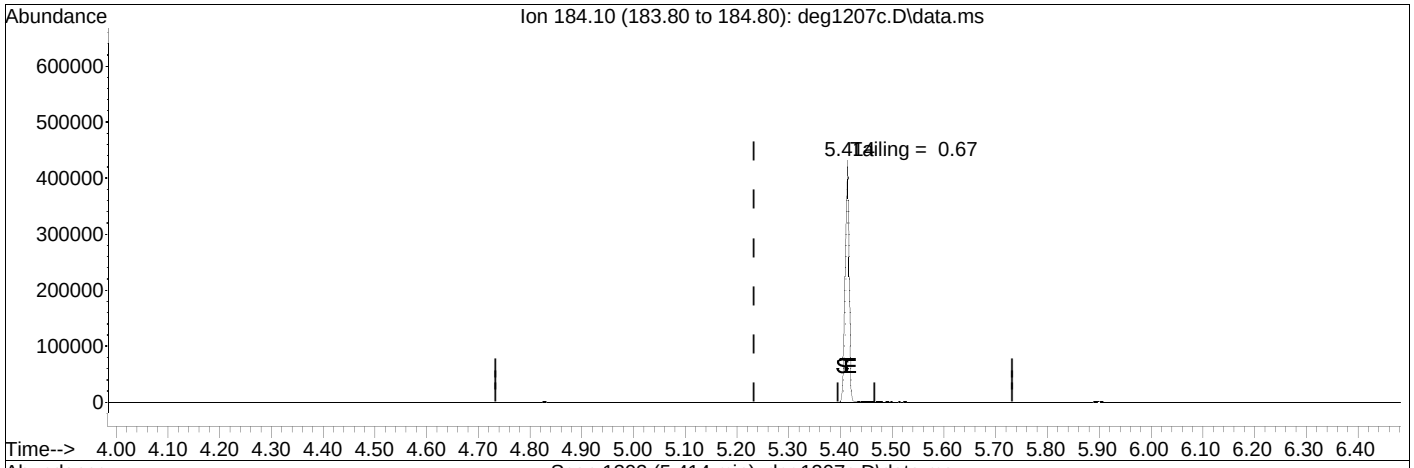
Spectrum Information: Average of 4.823 to 4.830 min.

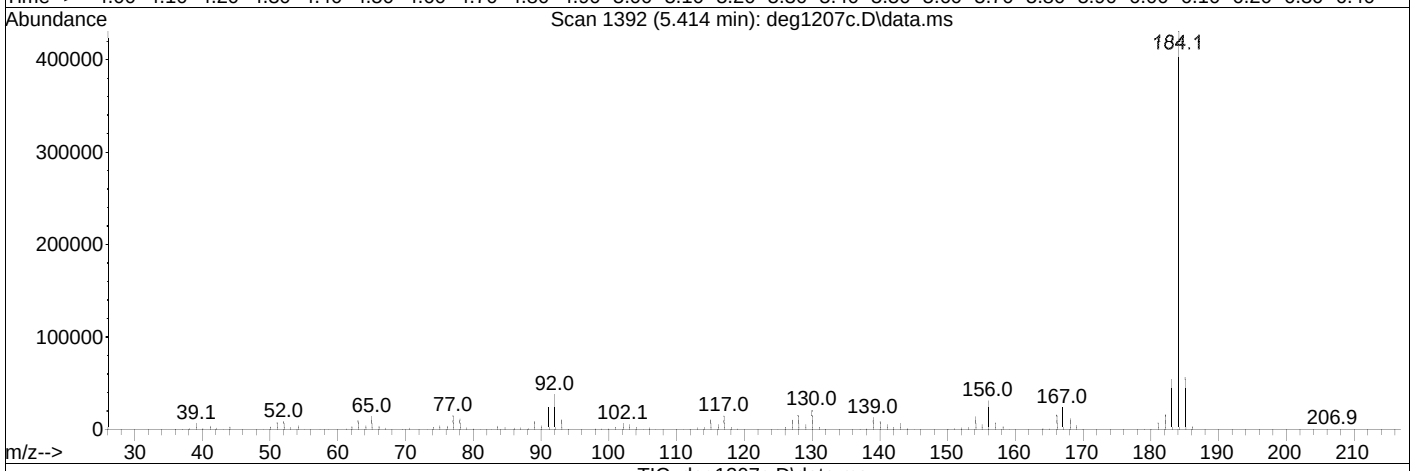
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	47.1	24965	PASS
68	69	0.00	2	1.3	291	PASS
69	69	100	100	100.0	22893	PASS
70	69	0.00	2	0.3	69	PASS
127	198	10	80	58.9	31243	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	53011	PASS
199	198	5	9	6.1	3252	PASS
275	198	10	60	24.8	13123	PASS
365	198	1	100	2.7	1452	PASS
441	442	0.01	24	16.4	6638	PASS
442	198	50	100	76.3	40438	PASS
443	442	15	24	18.3	7395	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : deg1207c.D
Acq On : 07 Dec 2023 11:27 am
Operator : SV125:jjw
Sample : WG1861049-4,32,,dftpp sv125
Misc : WG1861049,,ical20477
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 07 13:36:04 2023
Quant Method : I:\8270SIM\SV125\231207bLVI\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Nov 04 11:05:13 2023
Response via : Continuing Cal File:





TIC: deg1207c.D\data.ms

(3) benzidine (T)

5.414min (+ 0.181) 19.80

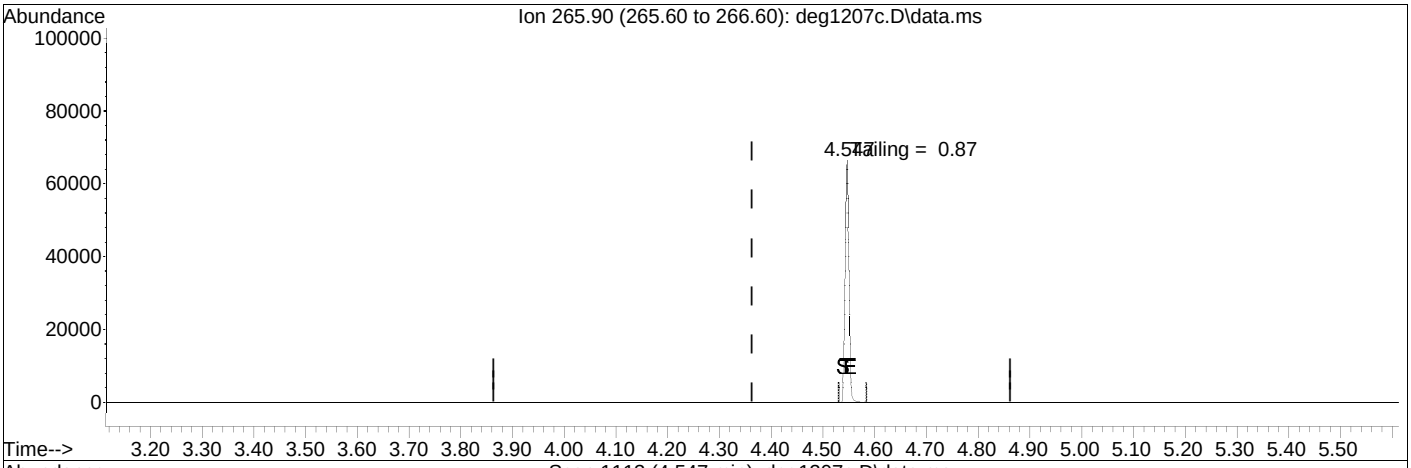
response 201525

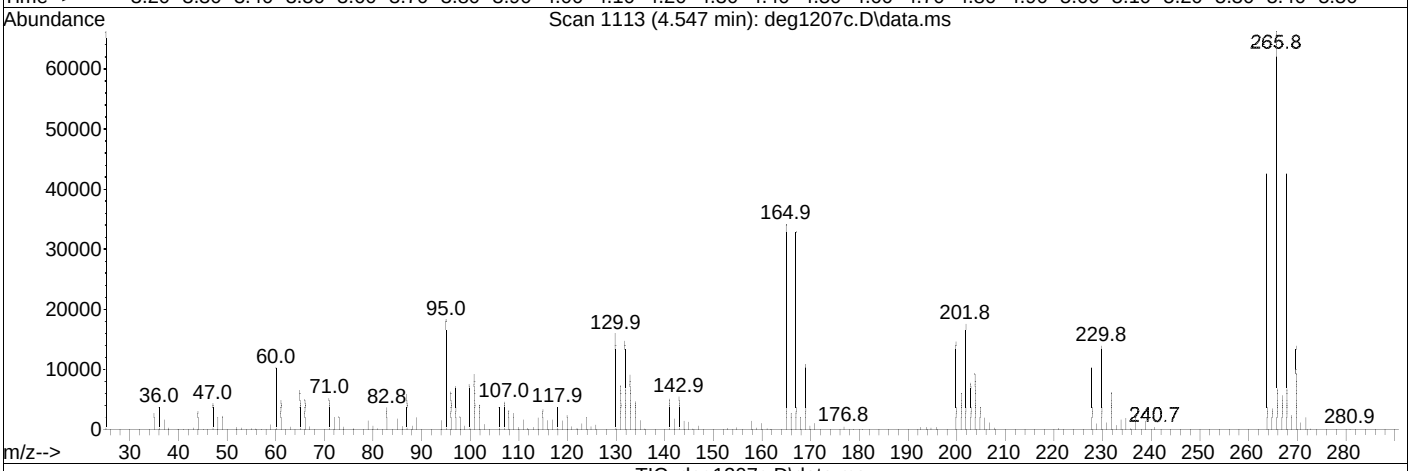
Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : deg1207c.D
Acq On : 07 Dec 2023 11:27 am
Operator : SV125:jjw
Sample : WG1861049-5,32,,dftpp sv125
Misc : WG1861049,,ical20477
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Dec 07 13:36:04 2023
Quant Method : I:\8270SIM\SV125\231207bLVI\dftppsv125.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Nov 04 11:05:13 2023
Response via : Continuing Cal File:





TIC: deg1207c.D\data.ms

(1) pentachlorophenol (T)

4.547min (+ 0.184) 14.72

response 30917

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231204\
Data File : 859056-1.D
Acq On : 04 Dec 2023 07:49 pm
Operator : SV128:ah
Sample : Wg1859056-1,32,,ah
Misc : WG1859432,wg1859056,ical20340
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 06 11:19:05 2023
Quant Method : I:\8270sim\sv128\231204\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 11:03:51 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\231204\ccv1204.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.098	152	7130M4	4000.000	ng/ml	0.02
Standard Area 1 = 3594			Recovery = 198.39%			
8) Naphthalene-d8	2.757	136	21330	4000.000	ng/ml	# 0.02
Standard Area 1 = 10889			Recovery = 195.89%			
17) Acenaphthene-d10	3.726	164	11496	4000.000	ng/ml	0.00
Standard Area 1 = 6309			Recovery = 182.22%			
22) Phenanthrene-d10	4.564	188	23351	4000.000	ng/ml	# 0.00
Standard Area 1 = 13841			Recovery = 168.71%			
31) Chrysene-d12	6.095	240	17689	4000.000	ng/ml	0.00
Standard Area 1 = 13647			Recovery = 129.62%			
36) Perylene-d12	7.219	264	18449	4000.000	ng/ml	0.00
Standard Area 1 = 16742			Recovery = 110.20%			
System Monitoring Compounds						
2) 2-Fluorophenol	1.513	112	4716	2588.393	ng/ml	0.03
Spiked Amount 5000.000	Range 15 - 110		Recovery = 51.77%			
3) Phenol-d6	1.919	99	5706M6	2559.301	ng/ml	0.02
Spiked Amount 5000.000	Range 15 - 110		Recovery = 51.19%			
7) Nitrobenzene-d5	2.378	82	4216	2230.941	ng/ml	0.02
Spiked Amount 2500.000	Range 30 - 130		Recovery = 89.24%			
13) 2-Fluorobiphenyl	3.356	172	8305	1898.440	ng/ml	0.01
Spiked Amount 2500.000	Range 30 - 130		Recovery = 75.94%			
21) 2,4,6-Tribromophenol	4.172	330	2475	5127.369	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 102.55%			
30) 4-Terphenyl-d14	5.488	244	7205	1460.067	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 58.40%			
Target Compounds						Qvalue
6) Hexachloroethane	0.000		0	N.D.		
9) Naphthalene	2.769	128	309M6	59.291	ng/ml	
10) Hexachlorobutadiene	0.000		0	N.D.		
11) 2-Methylnaphthalene	3.148	142	17M6	4.887	ng/ml	
14) 2-Chloronaphthalene	3.415	162	9M6	2.496	ng/ml	
16) Acenaphthylene	0.000		0	N.D. d		
18) Acenaphthene	3.745	153	8M6	2.196	ng/ml	
20) Fluorene	4.035	166	10M4	2.516	ng/ml	
24) Hexachlorobenzene	4.351	284	7M3	5.582	ng/ml	

Data Path : I:\8270SIM\SV128\231204\
Data File : 859056-1.D
Acq On : 04 Dec 2023 07:49 pm
Operator : SV128:ah
Sample : Wg1859056-1,32,,ah
Misc : WG1859432,wg1859056,ical20340
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 06 11:19:05 2023
Quant Method : I:\8270sim\sv128\231204\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 11:03:51 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv128\231204\ccv1204.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Pentachlorophenol	0.000		0	N.D.	d	
26) Phenanthrene	4.576	178	30M6	5.153	ng/ml	
27) Anthracene	4.605	178	18M7	3.177	ng/ml	
28) Fluoranthene	5.258	202	33M4	4.880	ng/ml	
29) Pyrene	5.386	202	31M7	4.428	ng/ml	
32) Benzo[a]anthracene	6.093	228	105M1	11.263	ng/ml	
34) Chrysene	6.109	228	22M3	4.031	ng/ml	
37) Benzo[b]fluoranthene	6.876	252	40M1	7.695	ng/ml	
38) Benzo[k]fluoranthene	6.898	252	15M3	3.118	ng/ml	
39) Benzo[a]pyrene	7.162	252	27M6	6.048	ng/ml	
40) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
41) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
42) Benzo[g,h,i]perylene	8.694	276	20M6	4.371	ng/ml	

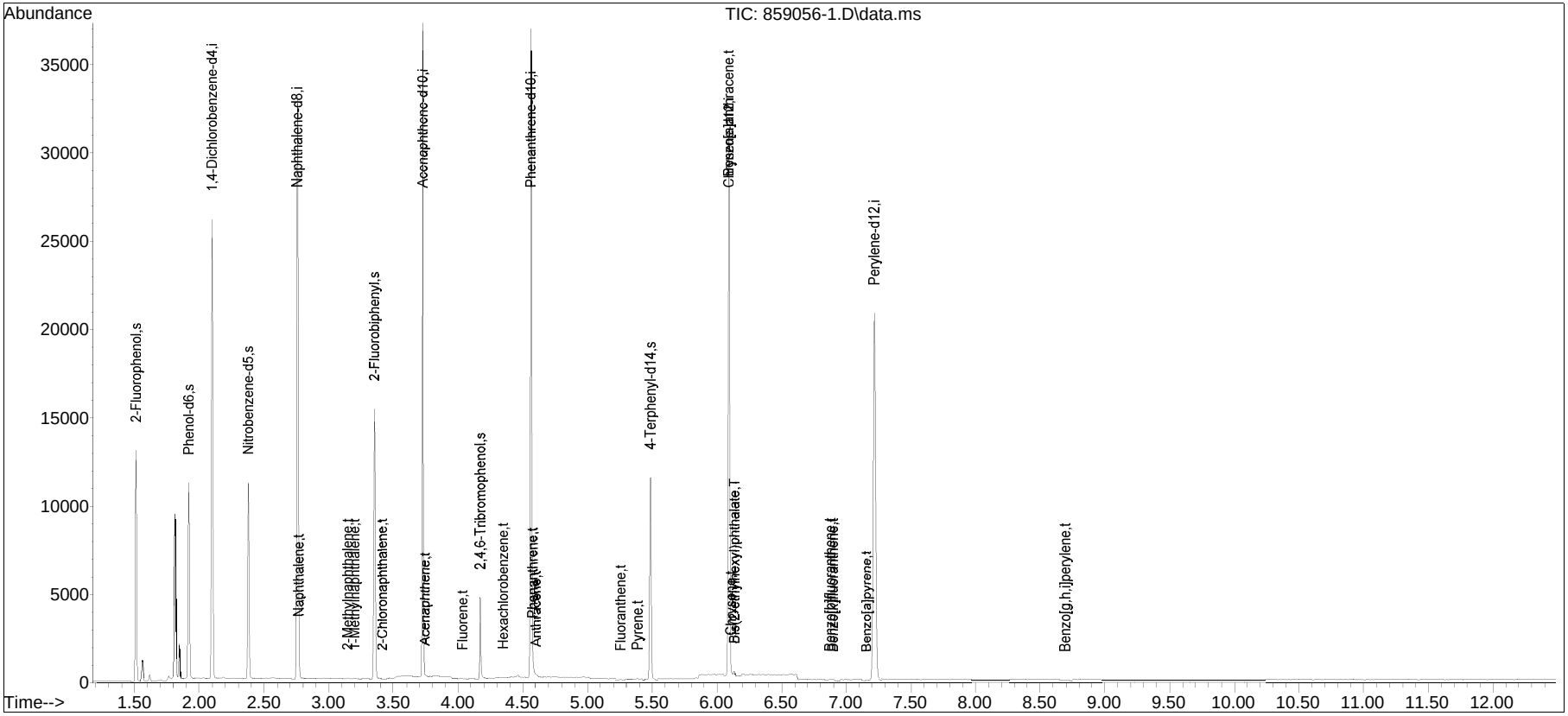
(#) = qualifier out of range (m) = manual integration (+) = signals summed

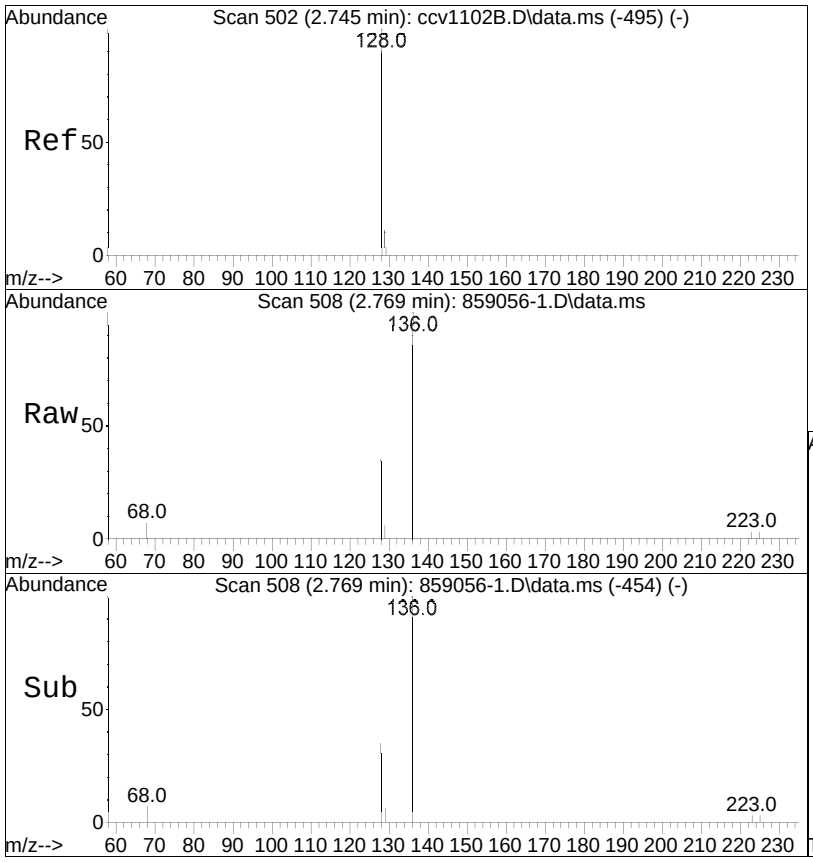
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV128\231204\
Data File : 859056-1.D
Acq On : 04 Dec 2023 07:49 pm
Operator : SV128:ah
Sample : Wg1859056-1,32,,ah
Misc : WG1859432,wg1859056,ical20340
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 06 11:19:05 2023
Quant Method : I:\8270sim\sv128\231204\SIM-LVI_230831_sv128.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 04 11:03:51 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedv1204.D•

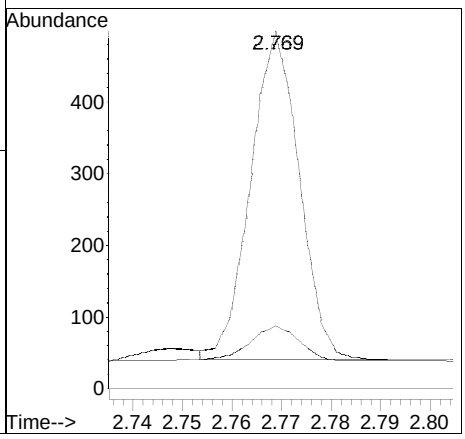


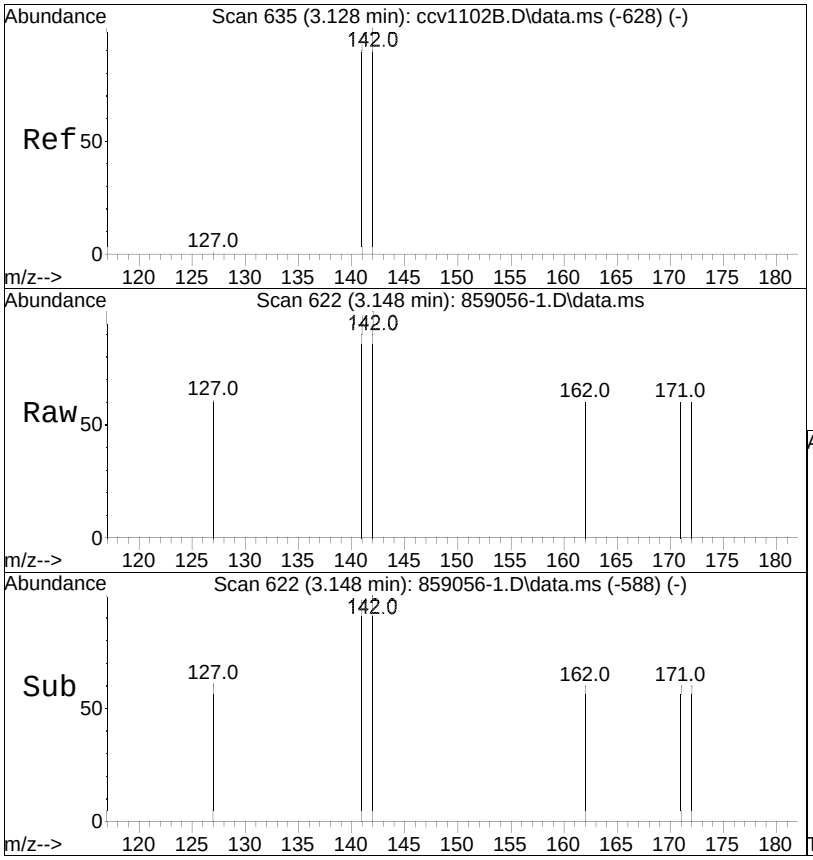


#9
Naphthalene
Concen: 59.29 ng/ml M6
RT: 2.769 min Scan# 508
Delta R.T. 0.015 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:128 Resp: 309

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	0.0	0.0	0.0

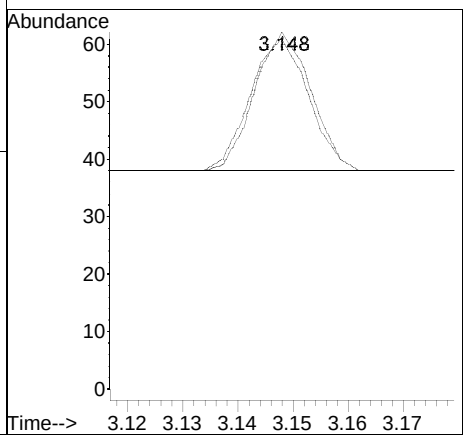


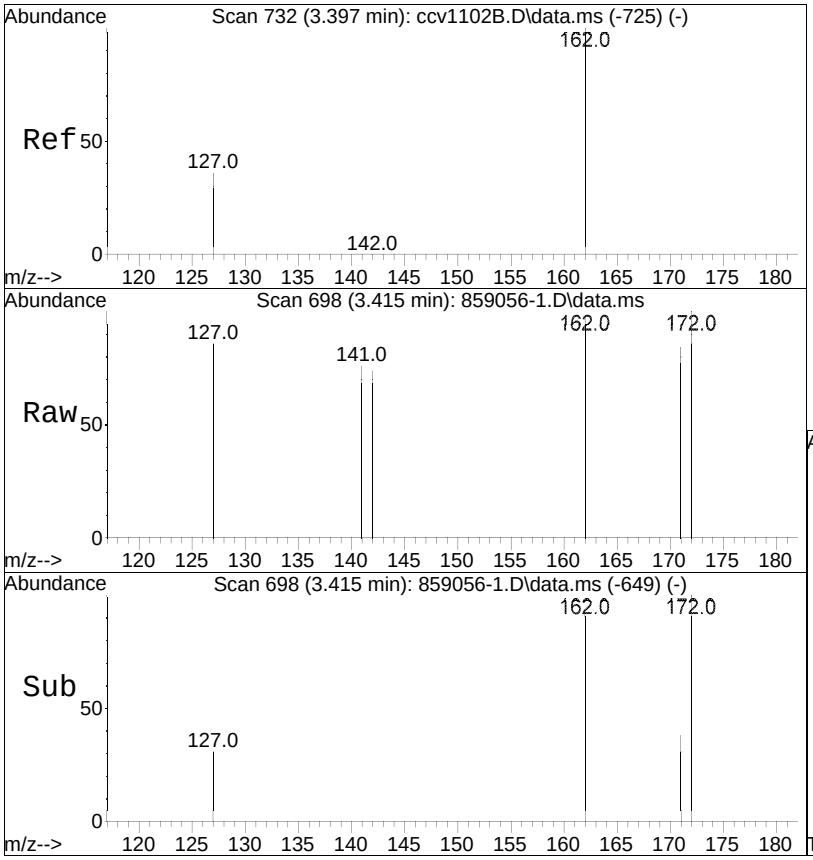


#11
2-Methylnaphthalene
Concen: 4.89 ng/ml M6
RT: 3.148 min Scan# 622
Delta R.T. 0.011 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:142 Resp: 17

Ion	Ratio	Lower	Upper
142	100		
141	100.0	75.0	112.4

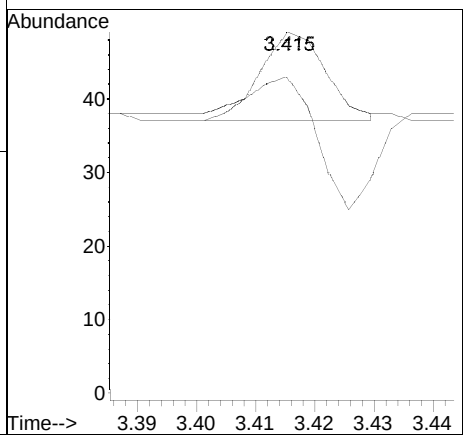


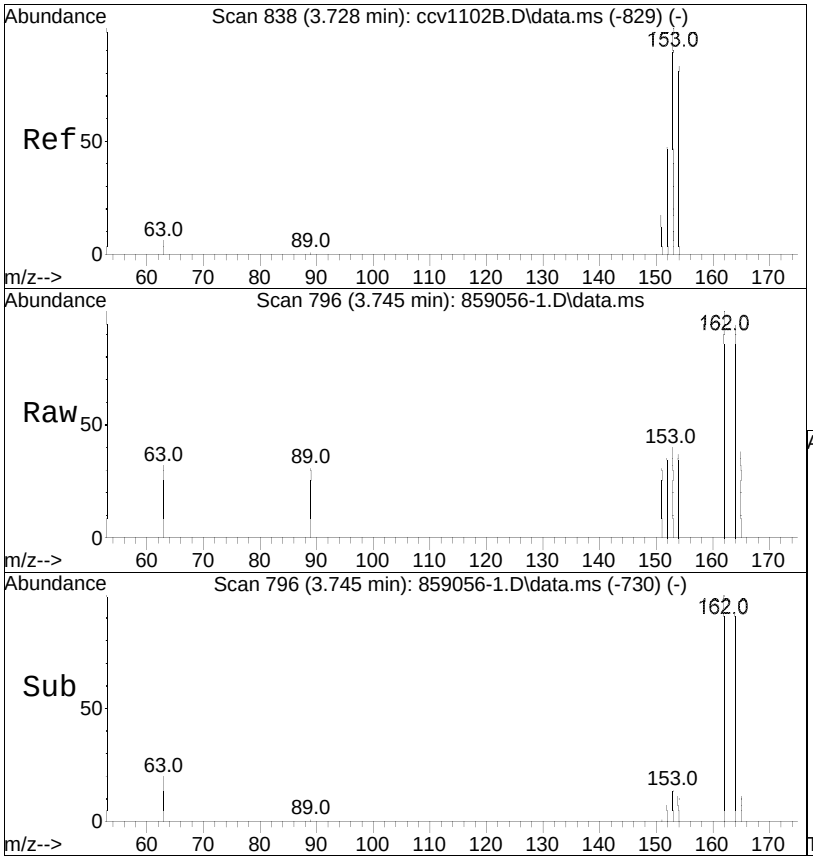


#14
2-Chloronaphthalene
Concen: 2.50 ng/ml M6
RT: 3.415 min Scan# 698
Delta R.T. 0.011 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:162 Resp: 9

Ion	Ratio	Lower	Upper
162	100		
127	33.3	28.7	43.1

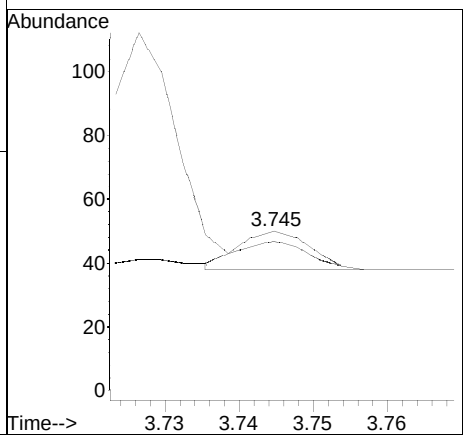


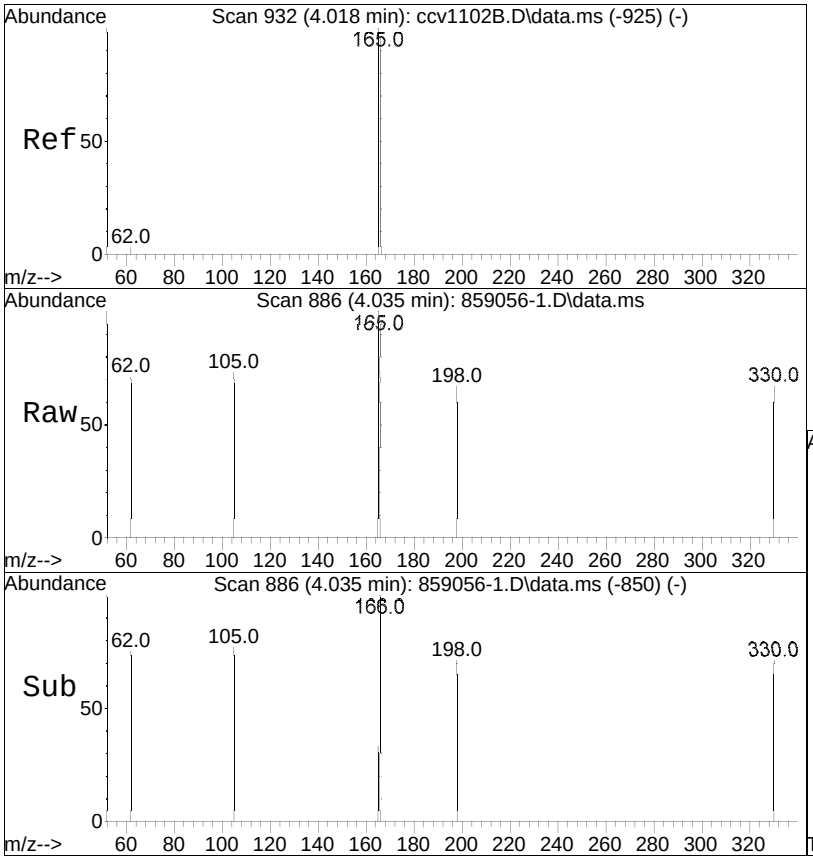


#18
Acenaphthene
Concen: 2.20 ng/ml M6
RT: 3.745 min Scan# 796
Delta R.T. 0.006 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:153 Resp: 8

Ion	Ratio	Lower	Upper
153	100		
154	87.5	67.4	101.2

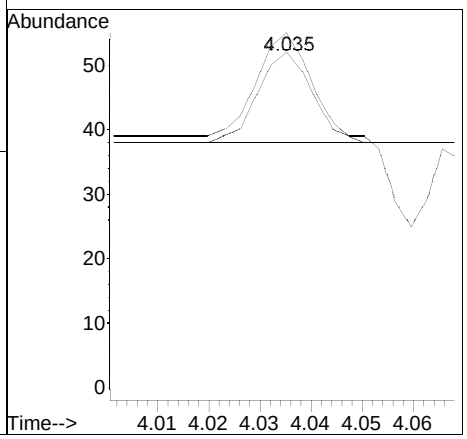


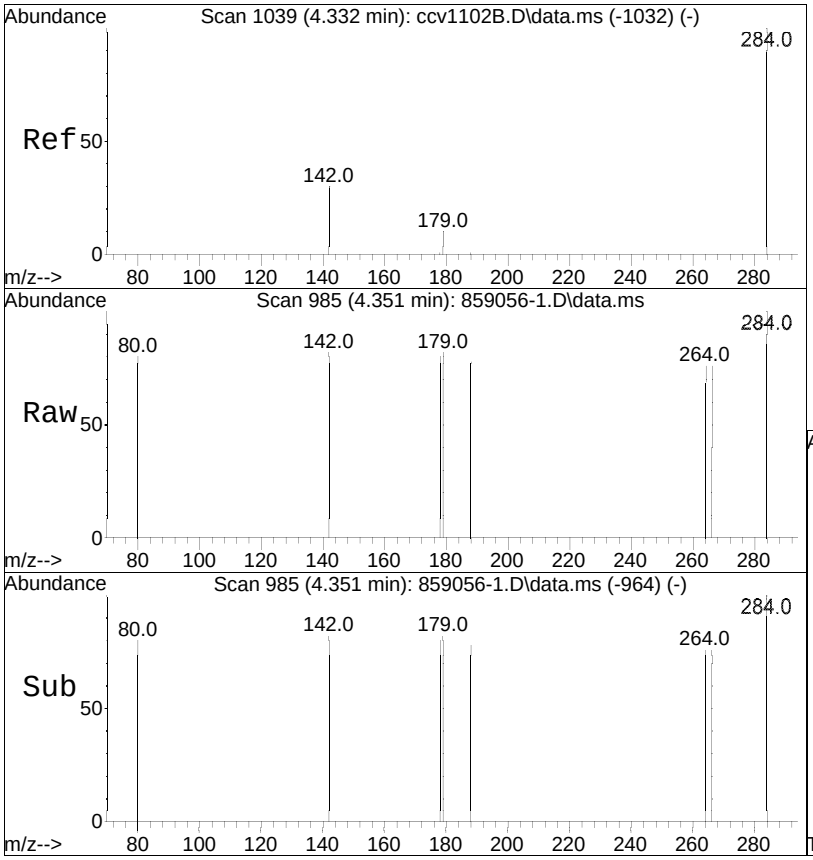


#20
Fluorene
Concen: 2.52 ng/ml M4
RT: 4.035 min Scan# 886
Delta R.T. 0.006 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:166 Resp: 10

Ion	Ratio	Lower	Upper
166	100		
165	110.0	82.7	124.1

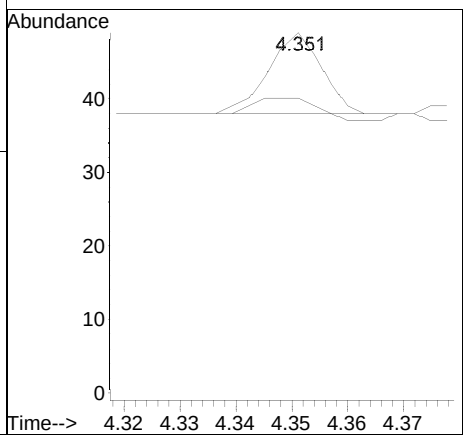


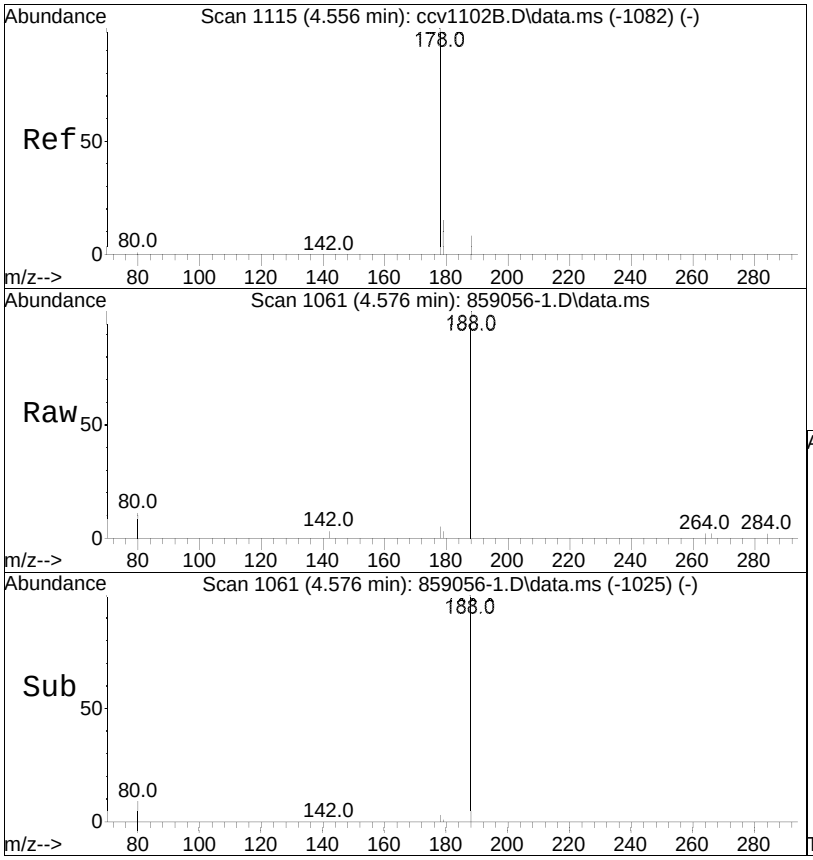


#24
Hexachlorobenzene
Concen: 5.58 ng/ml M3
RT: 4.351 min Scan# 985
Delta R.T. 0.003 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:284 Resp: 7

Ion	Ratio	Lower	Upper
284	100		
142	28.6	26.6	40.0

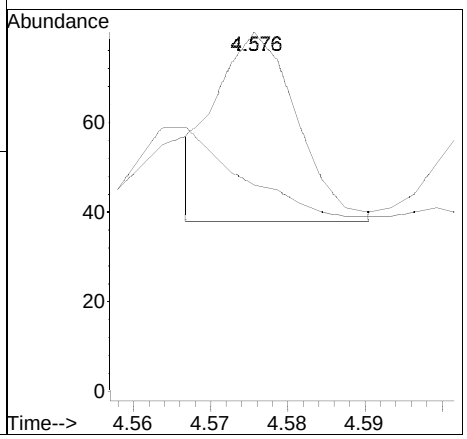


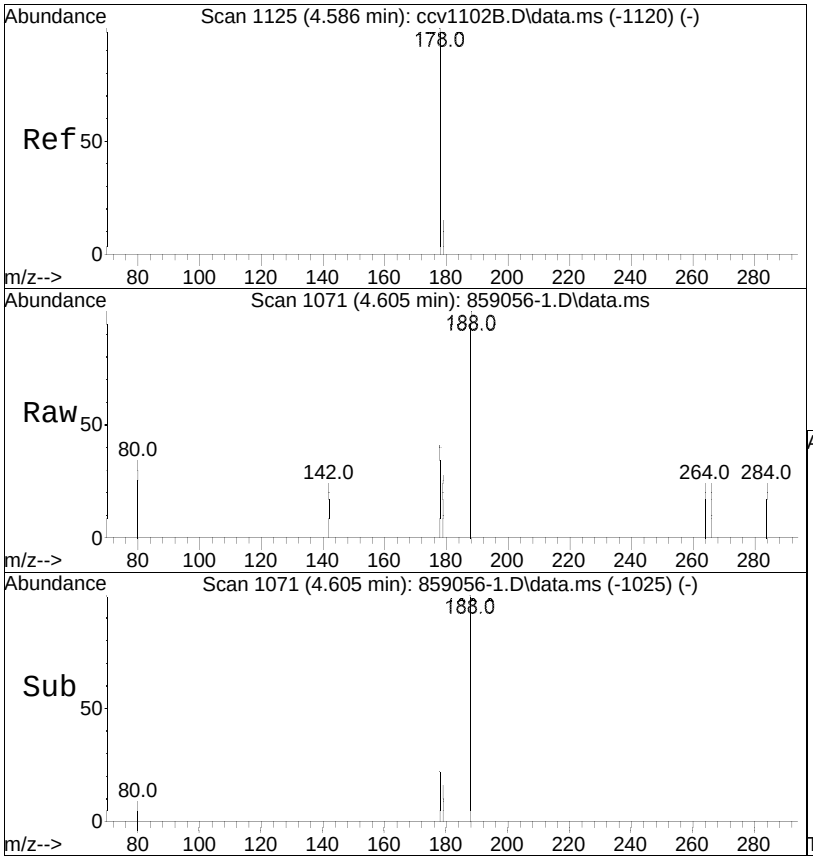


#26
Phenanthrene
Concen: 5.15 ng/ml M6
RT: 4.576 min Scan# 1061
Delta R.T. -0.000 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:178 Resp: 30

Ion	Ratio	Lower	Upper
178	100		
179	10.0	12.4	18.6#

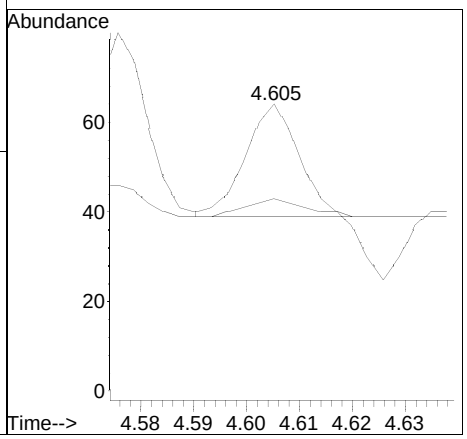


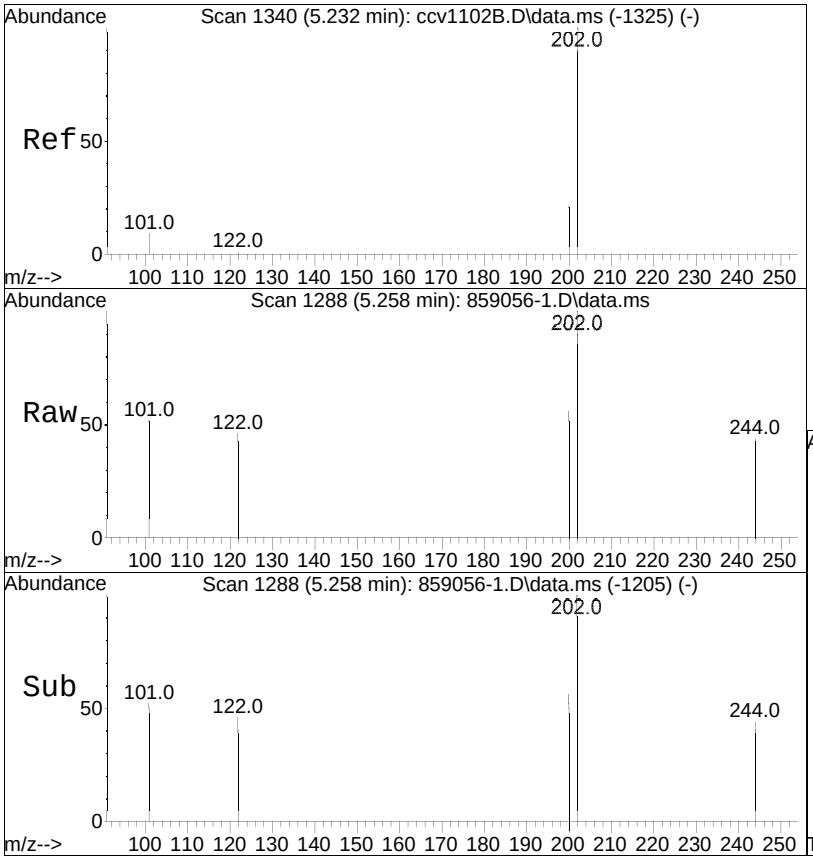


#27
Anthracene
Concen: 3.18 ng/ml M7
RT: 4.605 min Scan# 1071
Delta R.T. -0.000 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:178 Resp: 18

Ion	Ratio	Lower	Upper
178	100		
179	16.7	12.6	19.0

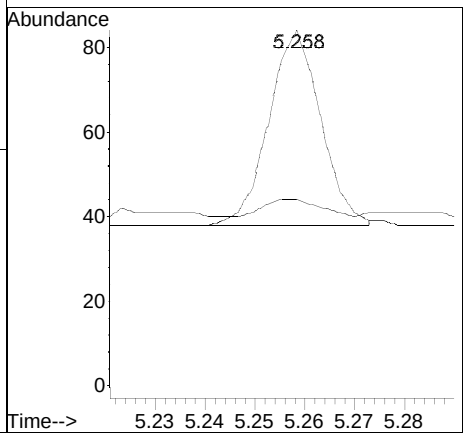


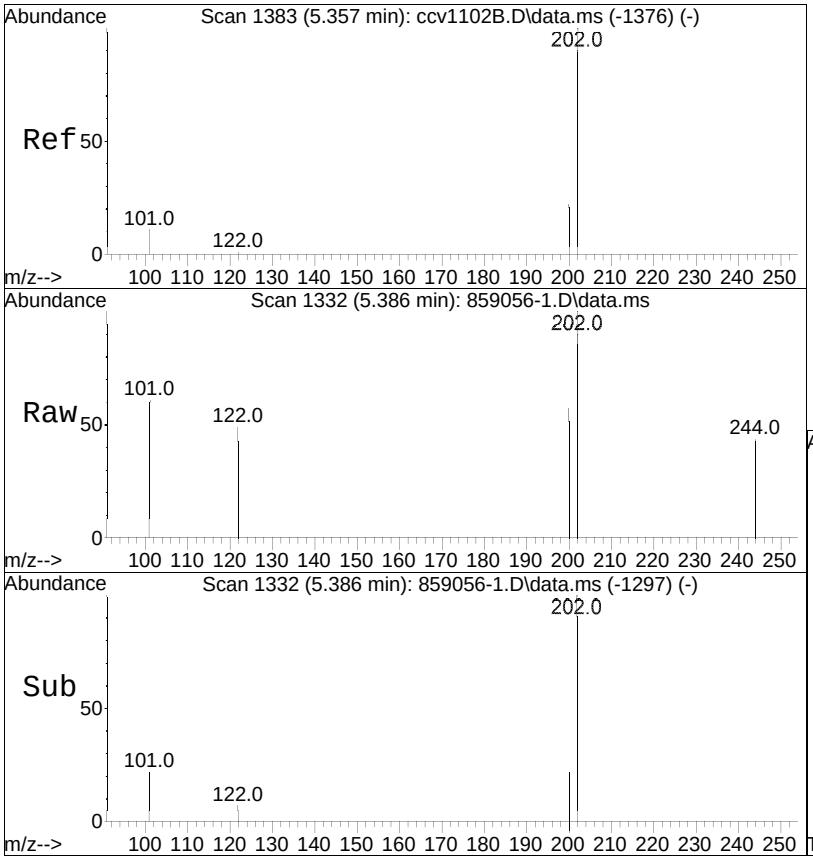


#28
Fluoranthene
Concen: 4.88 ng/ml M4
RT: 5.258 min Scan# 1288
Delta R.T. -0.003 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:202 Resp: 33

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.0	10.6

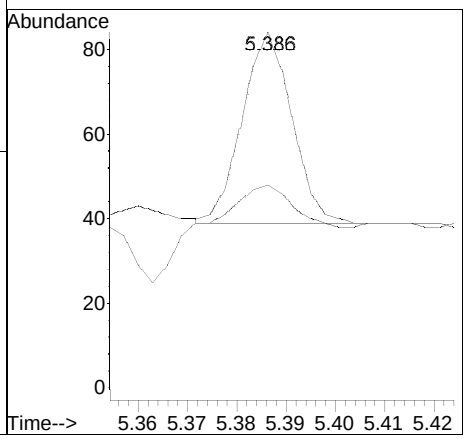


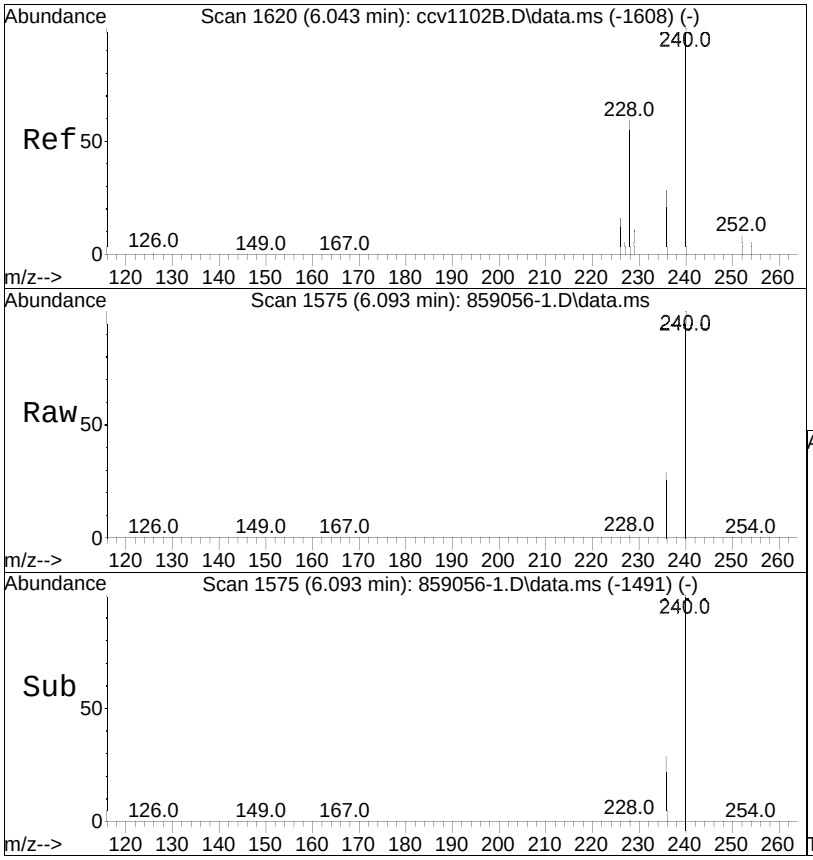


#29
Pyrene
Concen: 4.43 ng/ml M7
RT: 5.386 min Scan# 1332
Delta R.T. -0.003 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:202 Resp: 31

Ion	Ratio	Lower	Upper
202	100		
200	25.8	17.0	25.4#

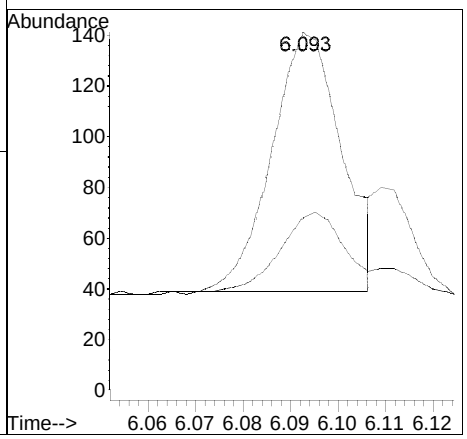


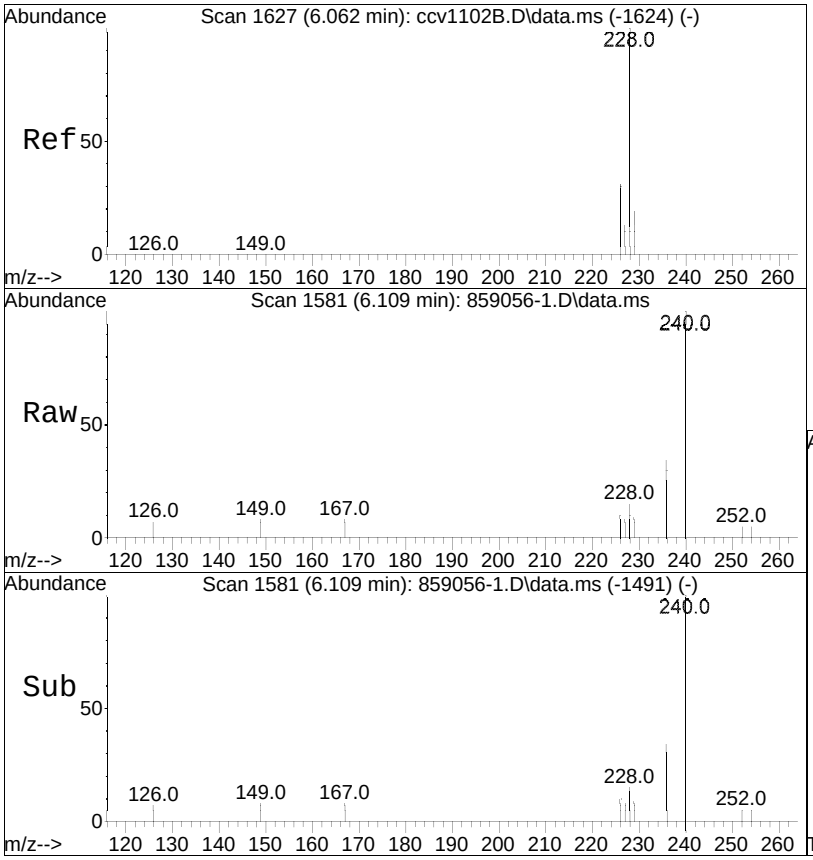


#32
Benzo[a]anthracene
Concen: 11.26 ng/ml M1
RT: 6.093 min Scan# 1575
Delta R.T. -0.000 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:228 Resp: 105

Ion	Ratio	Lower	Upper
228	100		
229	30.5	15.7	23.5#

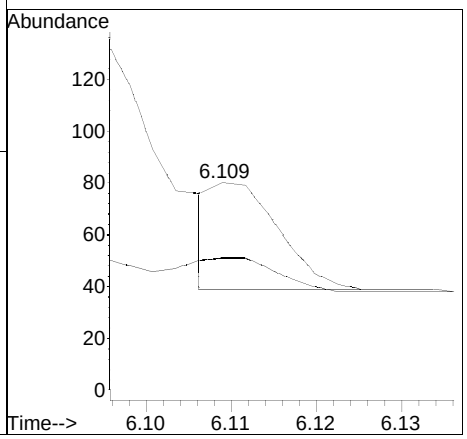


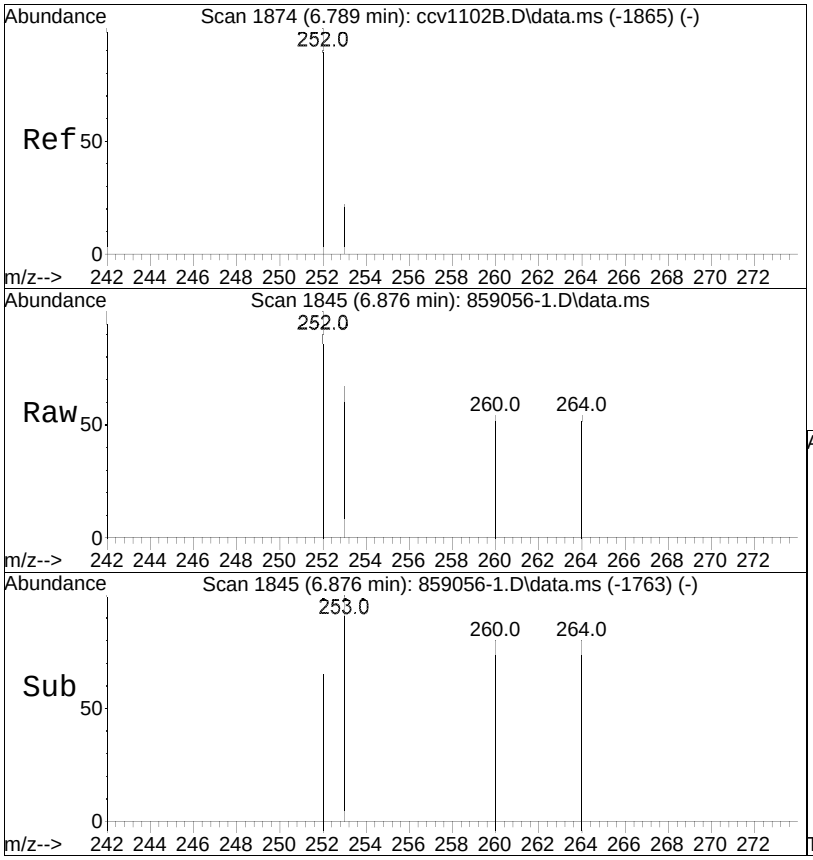


#34
Chrysene
Concen: 4.03 ng/ml M3
RT: 6.109 min Scan# 1581
Delta R.T. -0.005 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:228 Resp: 22

Ion	Ratio	Lower	Upper
228	100		
226	54.5	24.6	37.0#

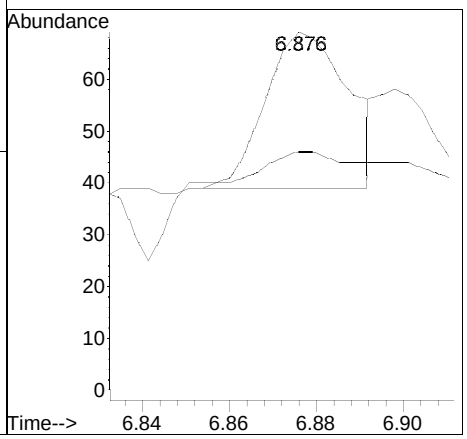


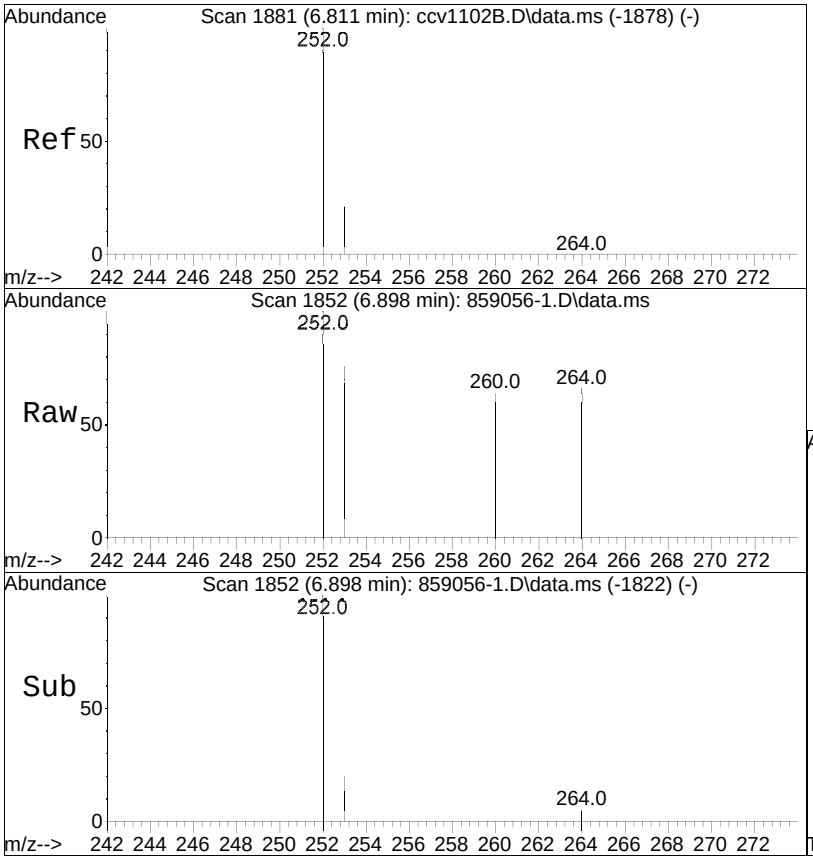


#37
Benzo[b]fluoranthene
Concen: 7.70 ng/ml M1
RT: 6.876 min Scan# 1845
Delta R.T. -0.006 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:252 Resp: 40

Ion	Ratio	Lower	Upper
252	100		
253	17.5	17.4	26.0

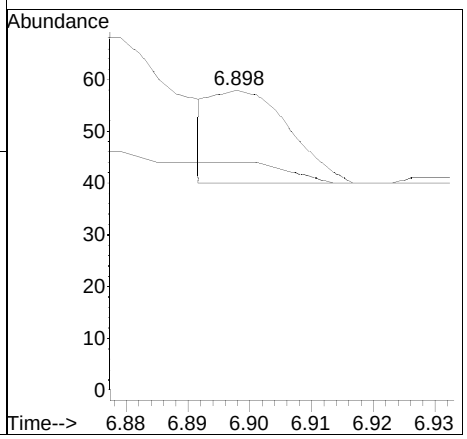


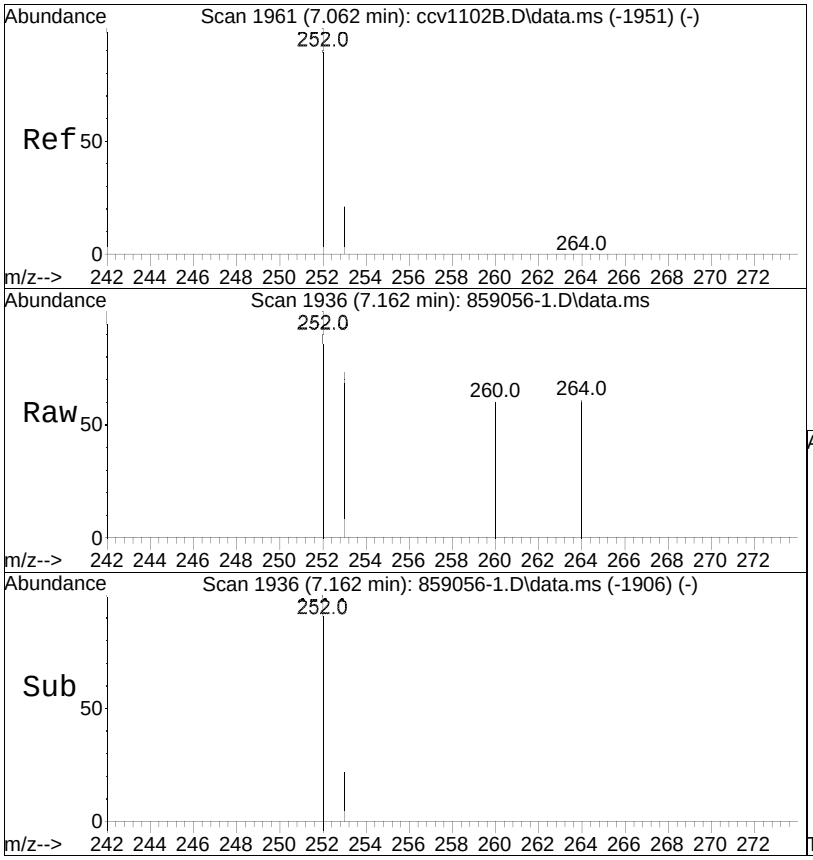


#38
Benzo[k]fluoranthene
Concen: 3.12 ng/ml M3
RT: 6.898 min Scan# 1852
Delta R.T. -0.006 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:252 Resp: 15

Ion	Ratio	Lower	Upper
252	100		
253	26.7	17.4	26.2#

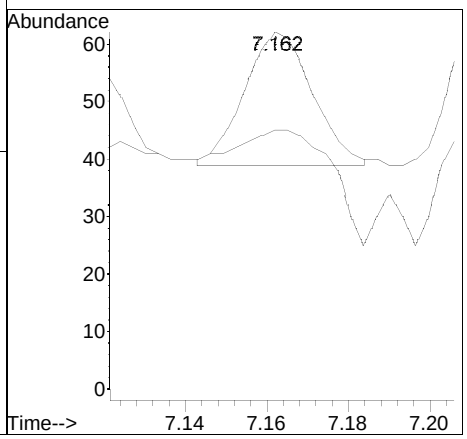


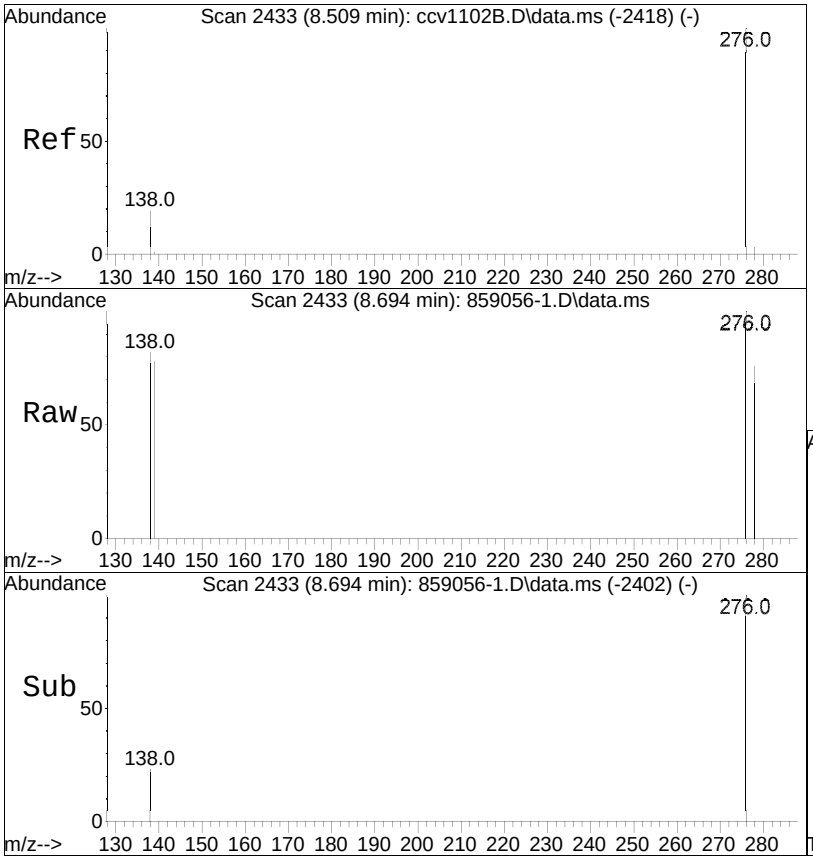


#39
Benzo[a]pyrene
Concen: 6.05 ng/ml M6
RT: 7.162 min Scan# 1936
Delta R.T. -0.006 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:252 Resp: 27

Ion	Ratio	Lower	Upper
252	100		
253	18.5	17.3	25.9

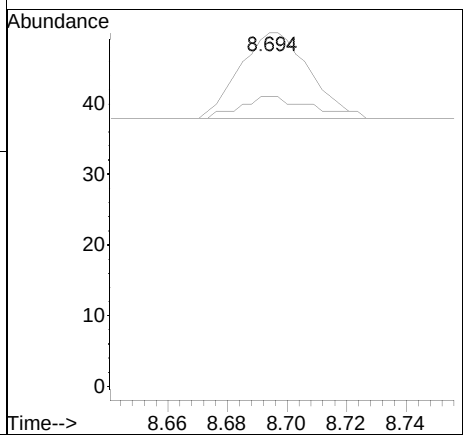




#42
Benzo[g,h,i]perylene
Concen: 4.37 ng/ml M6
RT: 8.694 min Scan# 2433
Delta R.T. -0.009 min
Lab File: 859056-1.D
Acq: 04 Dec 2023 07:49 pm

Tgt Ion:276 Resp: 20

Ion	Ratio	Lower	Upper
276	100		
138	25.0	15.0	22.6#

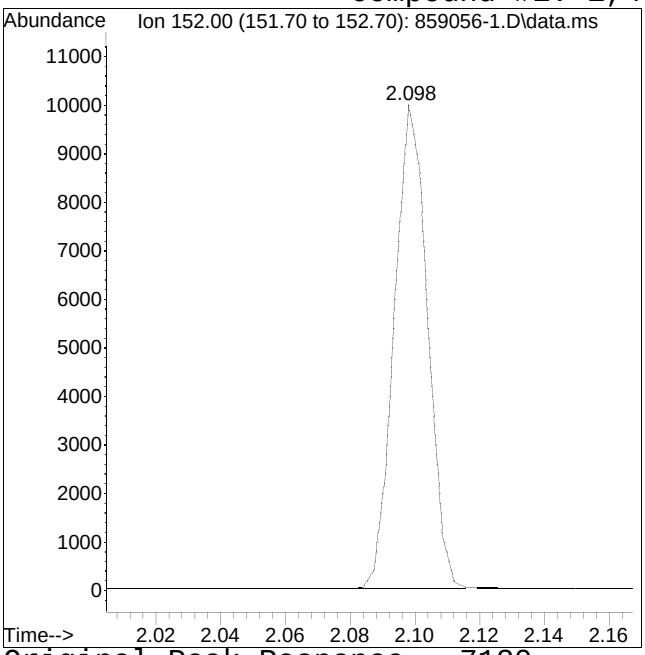


Manual Integration Report

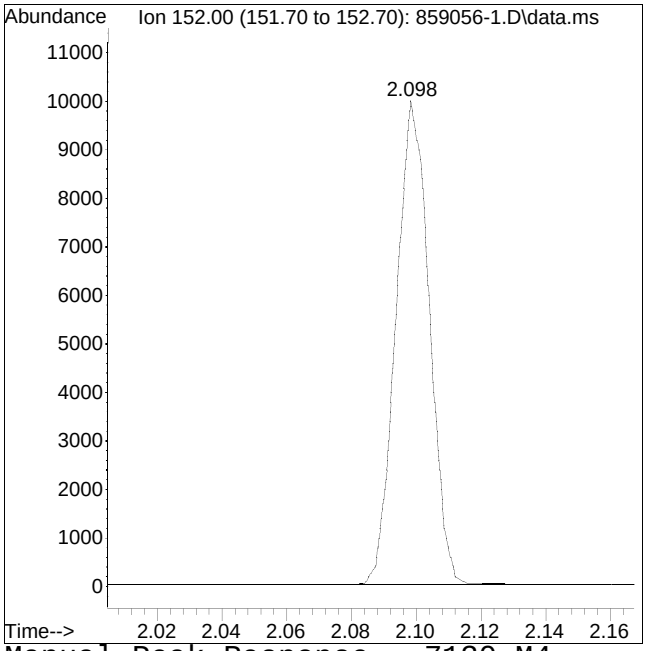
Data Path : I:\8270SIM\SV128\231204\
Data File : 859056-1.D
Date Inj'd : 12/4/2023 7:49 pm
Sample : Wg1859056-1,32,,ah

QMethod : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 12/4/2023 8:03 pm

Compound #1: 1,4-Dichlorobenzene-d4



Original Peak Response = 7120



Manual Peak Response = 7130 M4

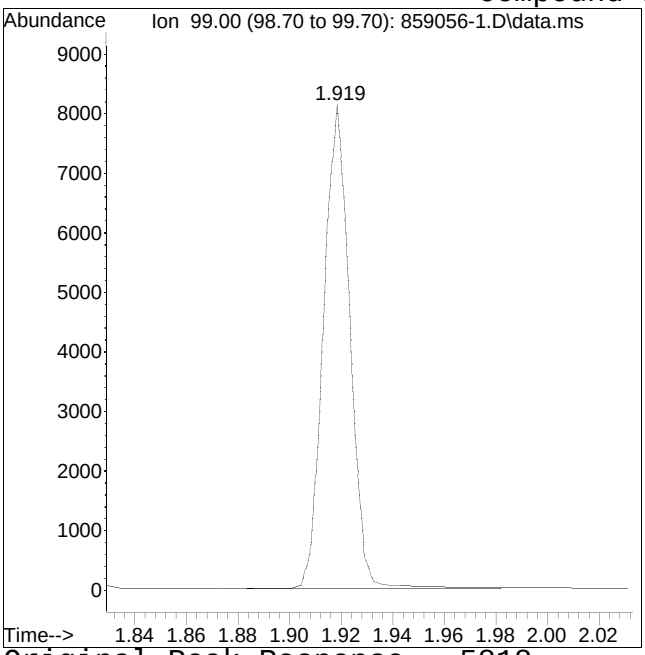
M4 = Poor automated baseline construction.

Manual Integration Report

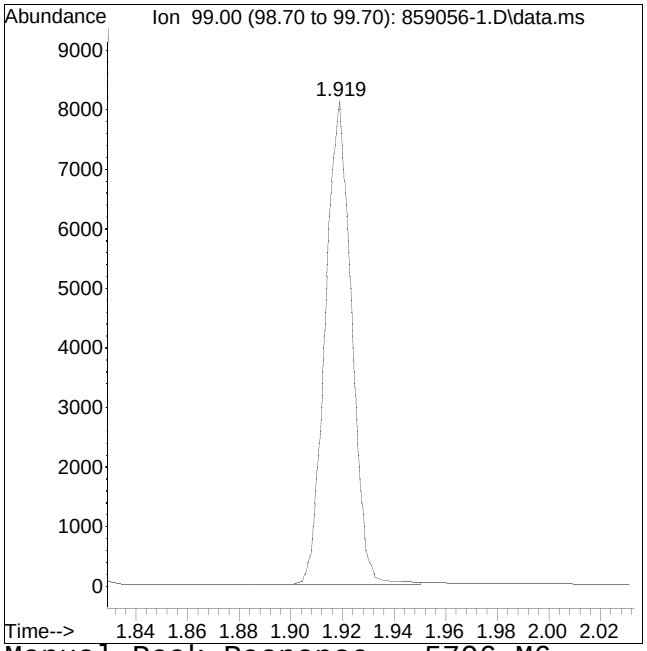
Data Path : I:\8270SIM\SV128\231204\
Data File : 859056-1.D
Date Inj'd : 12/4/2023 7:49 pm
Sample : Wg1859056-1,32,,ah

QMethod : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 12/4/2023 8:03 pm

Compound #3: Phenol-d6



Original Peak Response = 5818



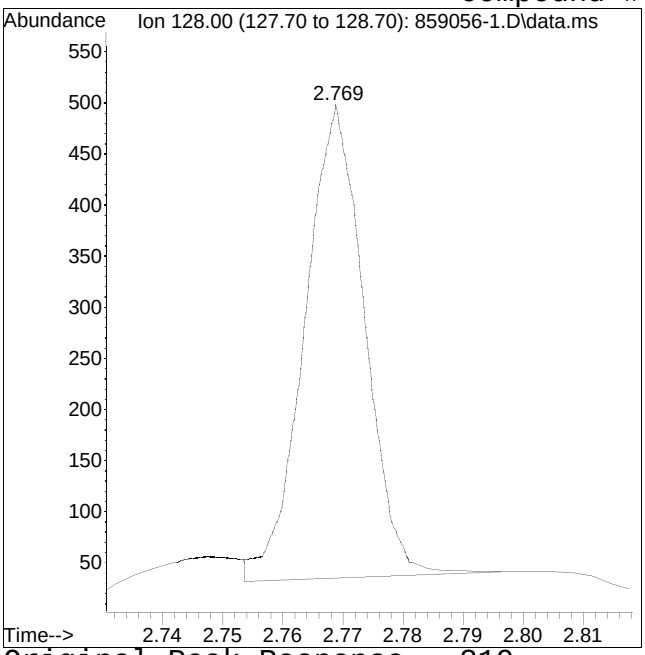
Manual Peak Response = 5706 M6

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

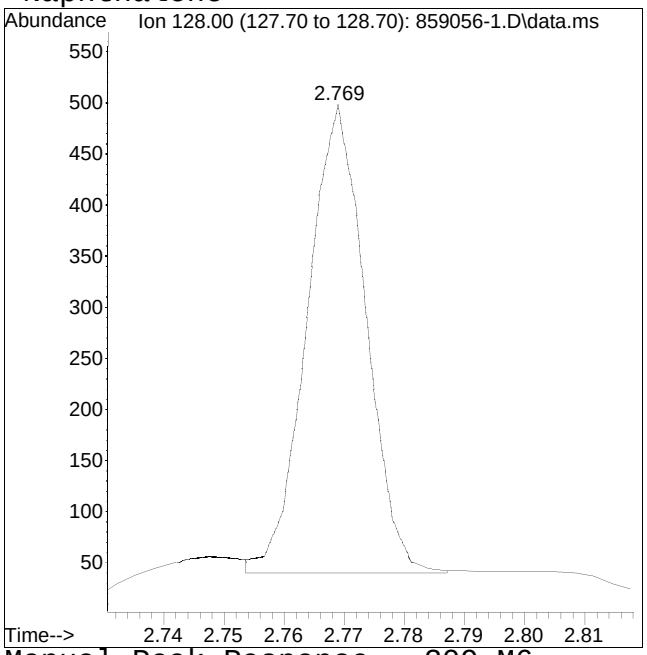
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : 859056-1.D Operator : SV128:ah
Date Inj'd : 12/4/2023 7:49 pm Instrument : SV128
Sample : Wg1859056-1,32,,ah Quant Date : 12/4/2023 8:03 pm

Compound #9: Naphthalene



Original Peak Response = 319



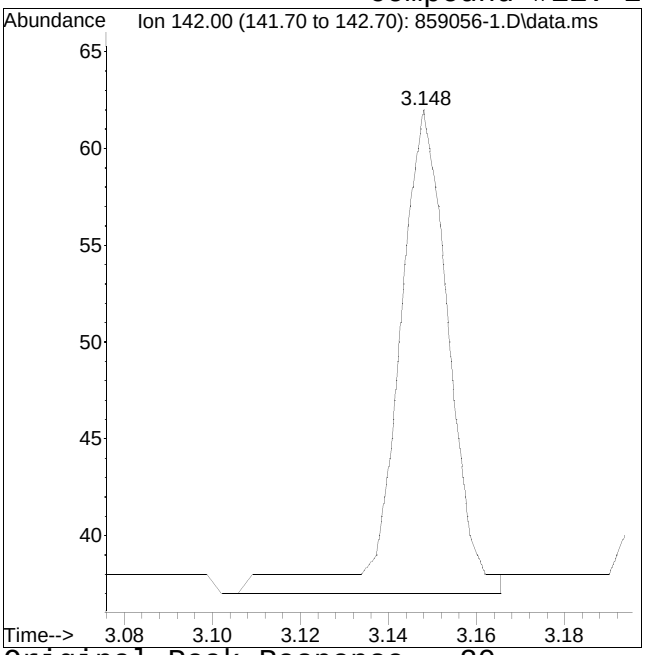
Manual Peak Response = 309 M6

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

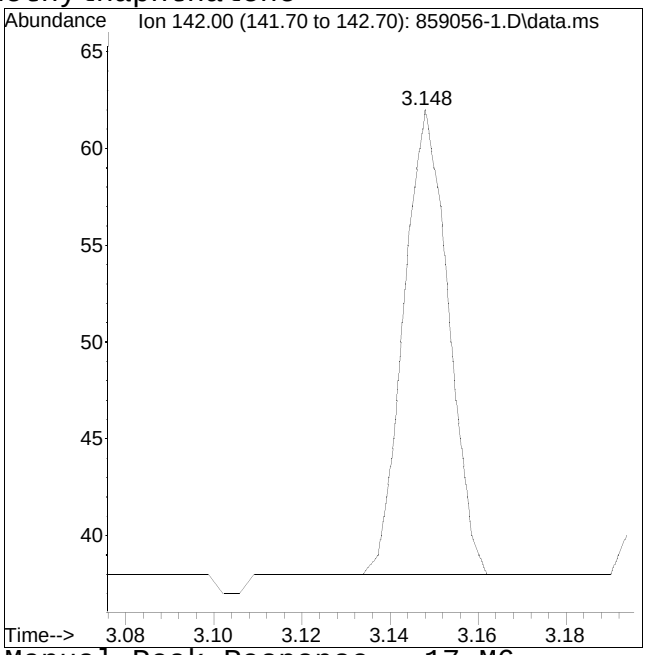
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : 859056-1.D Operator : SV128:ah
Date Inj'd : 12/4/2023 7:49 pm Instrument : SV128
Sample : Wg1859056-1,32,,ah Quant Date : 12/4/2023 8:03 pm

Compound #11: 2-Methylnaphthalene



Original Peak Response = 20



Manual Peak Response = 17 M6

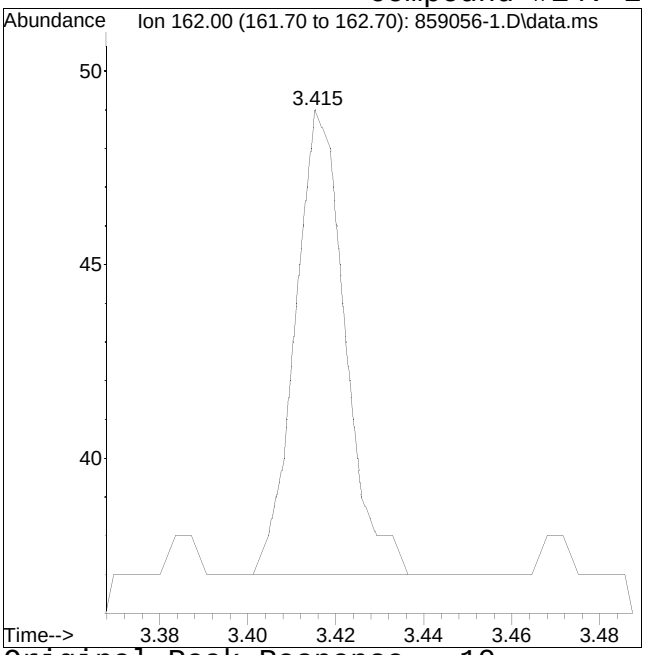
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

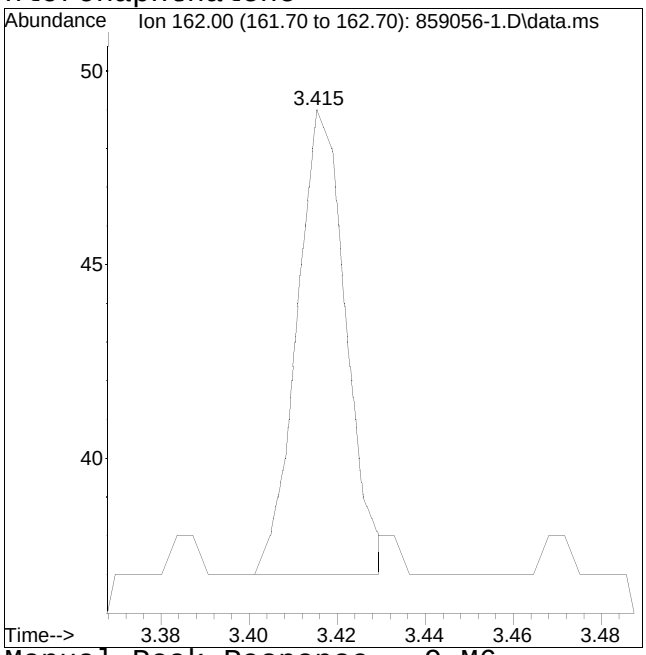
Data Path : I:\8270SIM\SV128\231204\
Data File : 859056-1.D
Date Inj'd : 12/4/2023 7:49 pm
Sample : Wg1859056-1,32,,ah

QMethod : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 12/4/2023 8:03 pm

Compound #14: 2-Chloronaphthalene



Original Peak Response = 10



Manual Peak Response = 9 M6

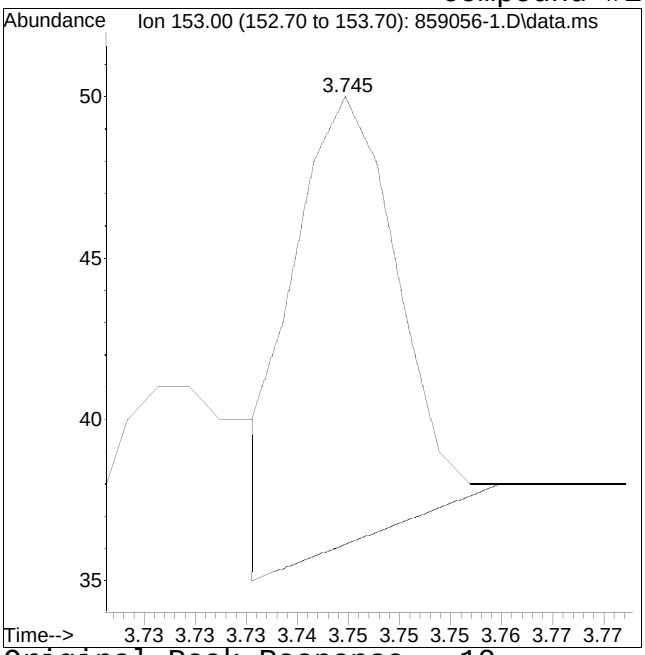
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

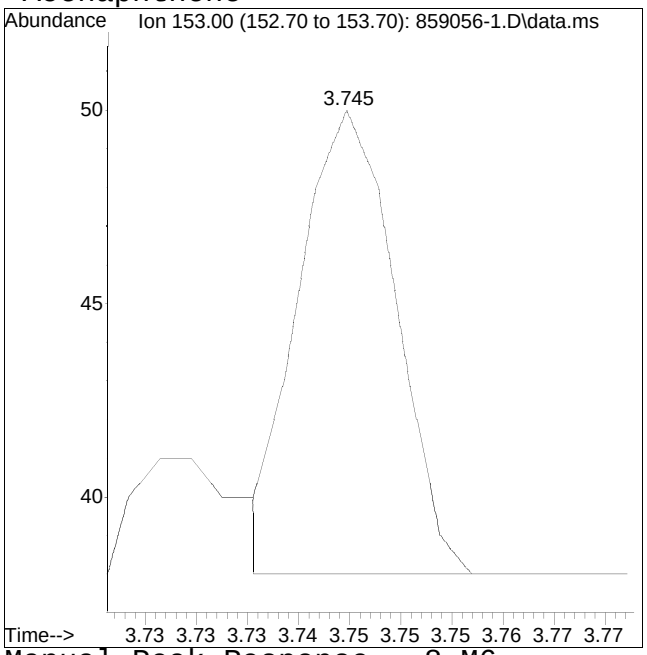
Data Path : I:\8270SIM\SV128\231204\
Data File : 859056-1.D
Date Inj'd : 12/4/2023 7:49 pm
Sample : Wg1859056-1,32,,ah

QMethod : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 12/4/2023 8:03 pm

Compound #18: Acenaphthene



Original Peak Response = 10



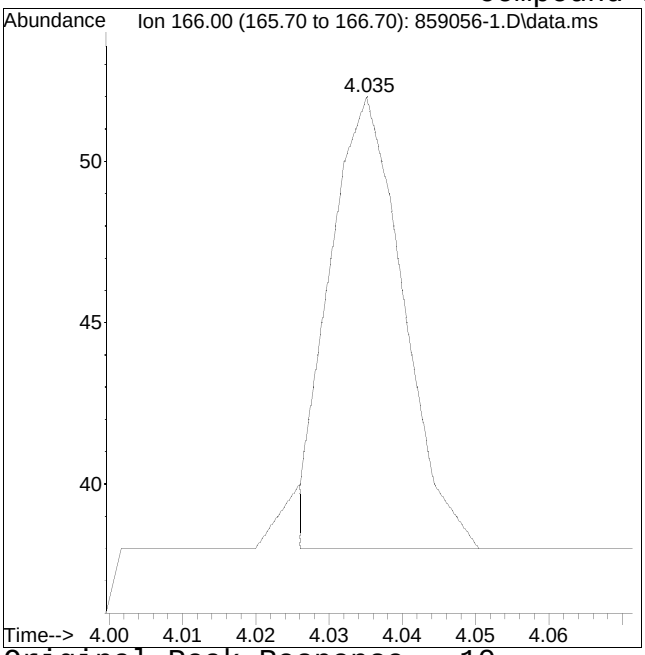
Manual Peak Response = 8 M6

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

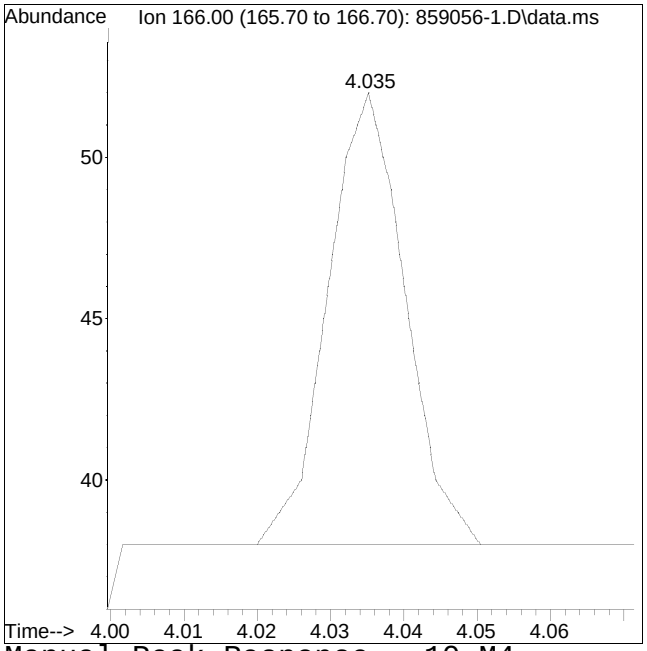
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : 859056-1.D Operator : SV128:ah
Date Inj'd : 12/4/2023 7:49 pm Instrument : SV128
Sample : Wg1859056-1,32,,ah Quant Date : 12/4/2023 8:03 pm

Compound #20: Fluorene



Original Peak Response = 10



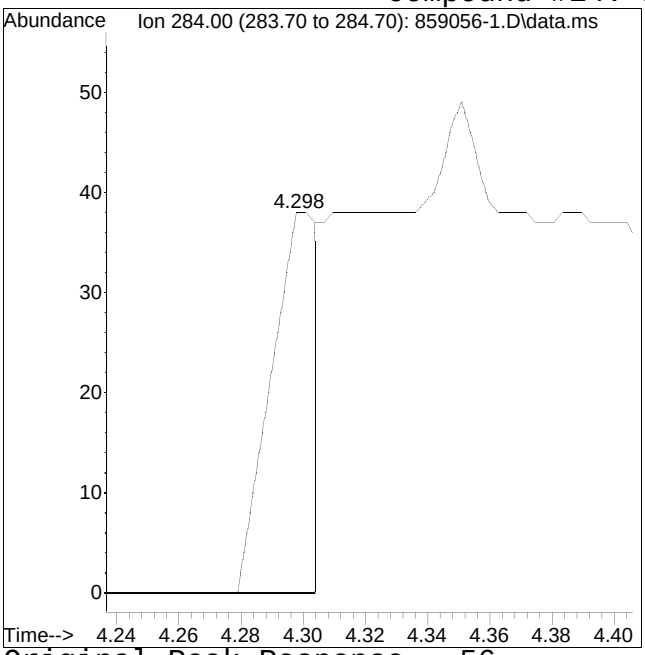
Manual Peak Response = 10 M4

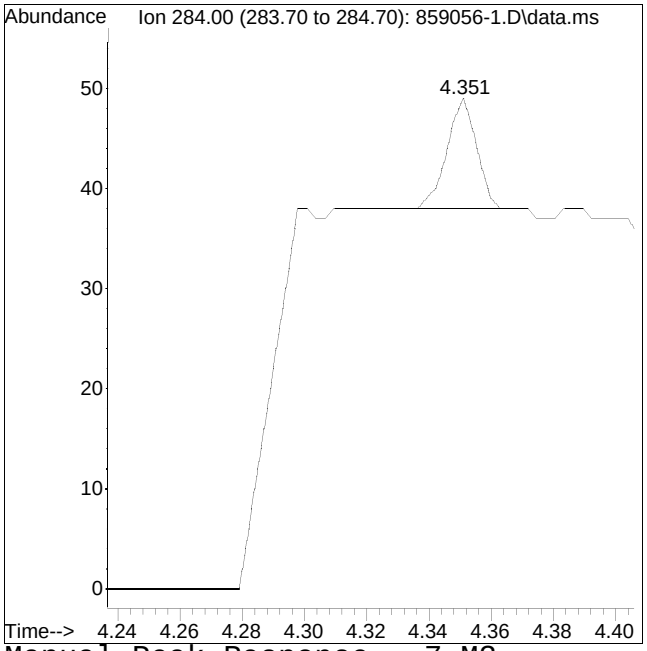
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : 859056-1.D Operator : SV128:ah
Date Inj'd : 12/4/2023 7:49 pm Instrument : SV128
Sample : Wg1859056-1,32,,ah Quant Date : 12/4/2023 8:03 pm

Compound #24: Hexachlorobenzene





Original Peak Response = 56 Manual Peak Response = 7 M3

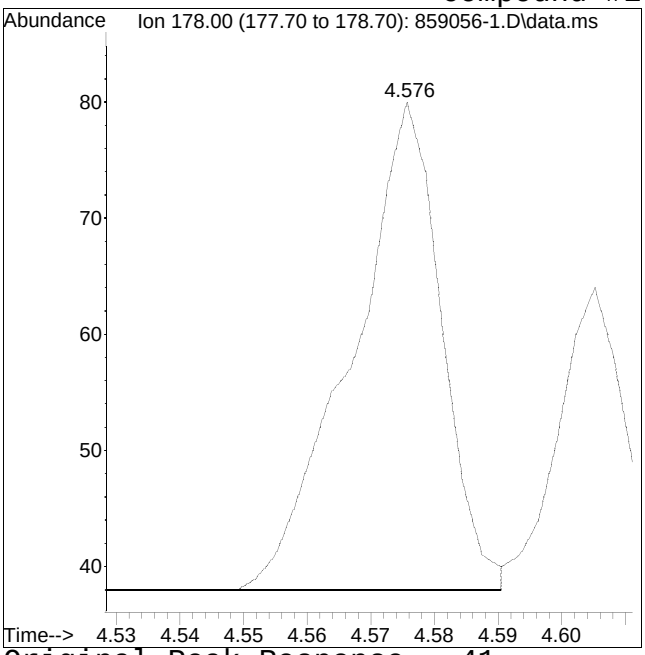
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

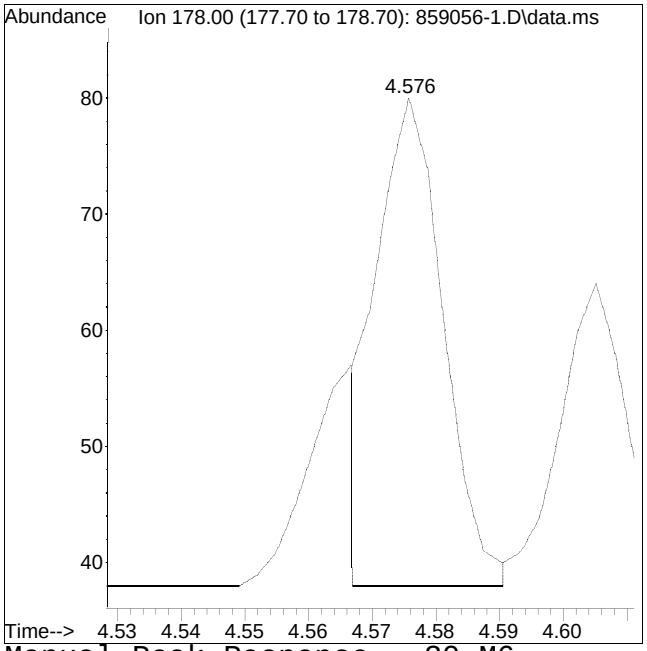
Data Path : I:\8270SIM\SV128\231204\
Data File : 859056-1.D
Date Inj'd : 12/4/2023 7:49 pm
Sample : Wg1859056-1,32,,ah

QMethod : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 12/4/2023 8:03 pm

Compound #26: Phenanthrene



Original Peak Response = 41



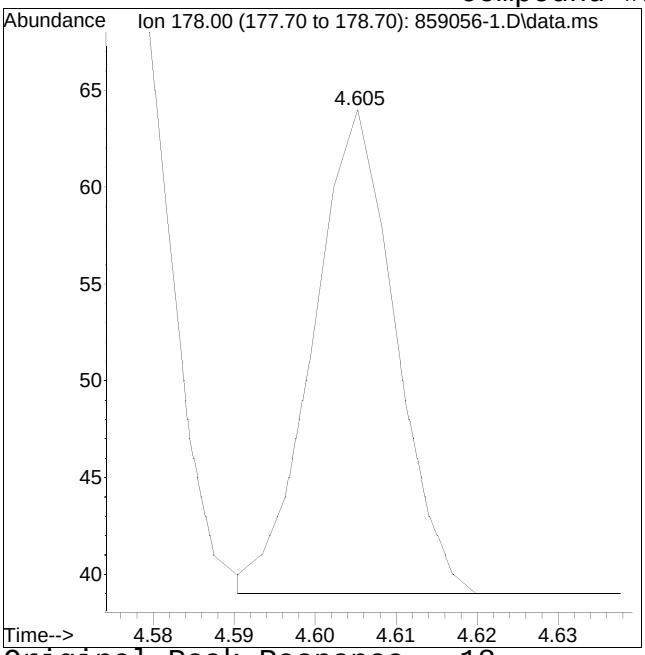
Manual Peak Response = 30 M6

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

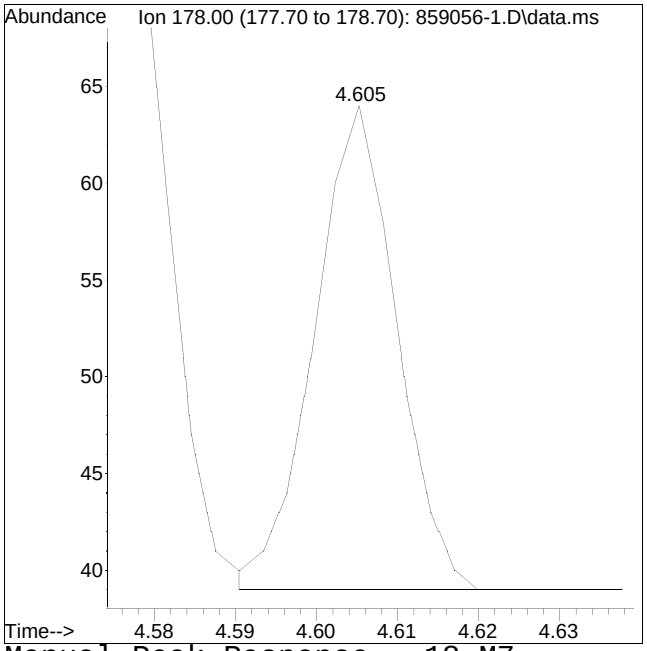
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : 859056-1.D Operator : SV128:ah
Date Inj'd : 12/4/2023 7:49 pm Instrument : SV128
Sample : Wg1859056-1,32,,ah Quant Date : 12/4/2023 8:03 pm

Compound #27: Anthracene



Original Peak Response = 18



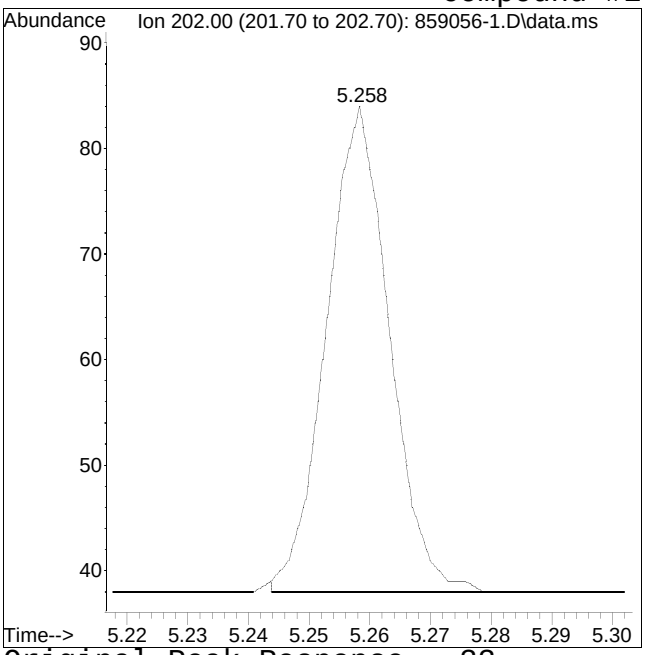
Manual Peak Response = 18 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

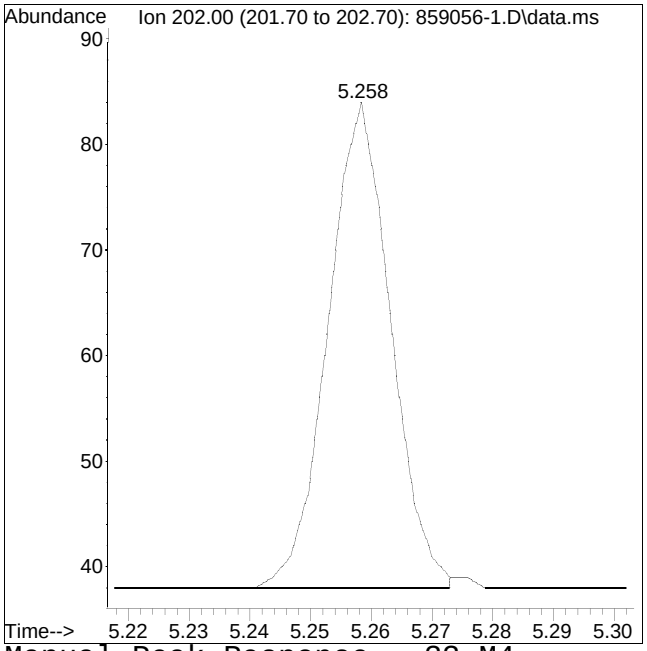
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : 859056-1.D Operator : SV128:ah
Date Inj'd : 12/4/2023 7:49 pm Instrument : SV128
Sample : Wg1859056-1,32,,ah Quant Date : 12/4/2023 8:03 pm

Compound #28: Fluoranthene



Original Peak Response = 33



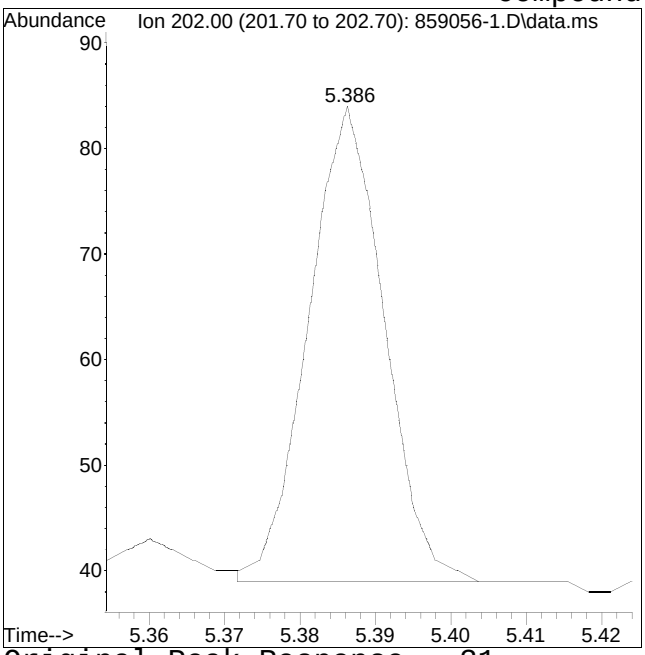
Manual Peak Response = 33 M4

M4 = Poor automated baseline construction.

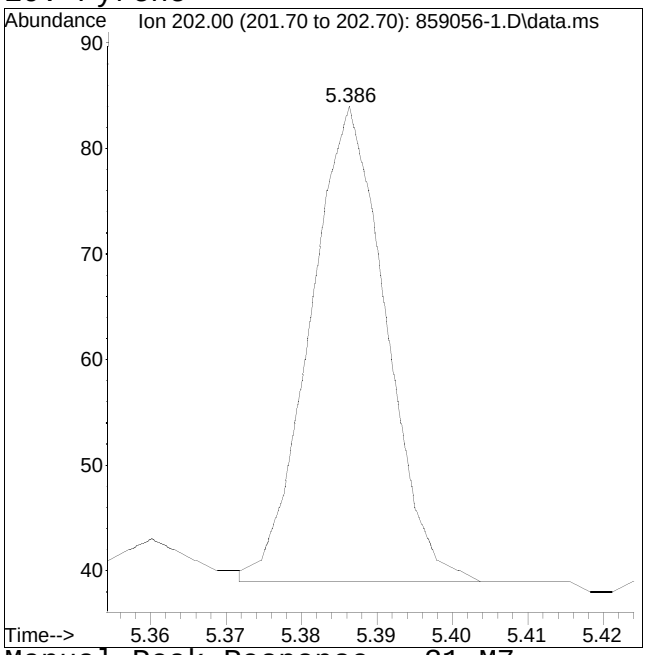
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : 859056-1.D Operator : SV128:ah
Date Inj'd : 12/4/2023 7:49 pm Instrument : SV128
Sample : Wg1859056-1,32,,ah Quant Date : 12/4/2023 8:03 pm

Compound #29: Pyrene



Original Peak Response = 31



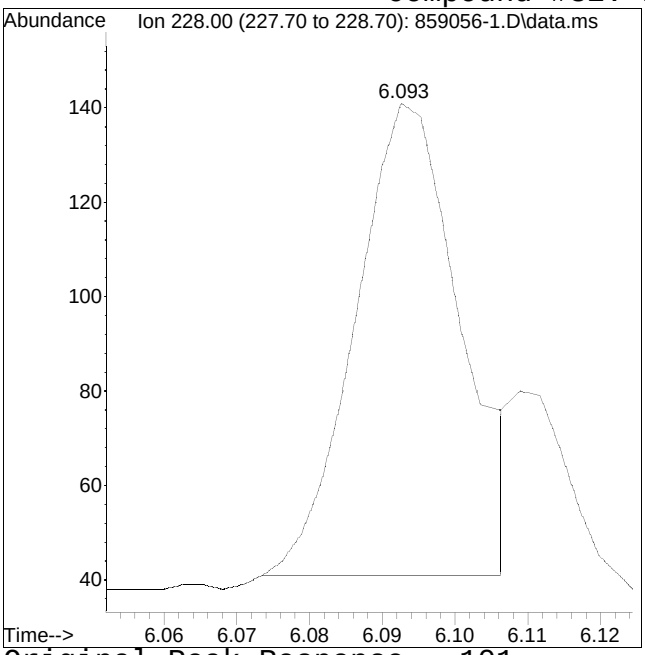
Manual Peak Response = 31 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

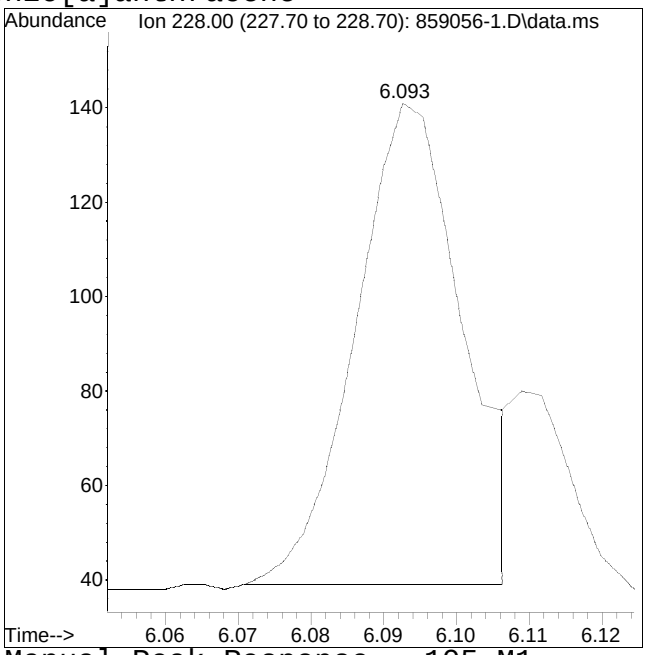
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : 859056-1.D Operator : SV128:ah
Date Inj'd : 12/4/2023 7:49 pm Instrument : SV128
Sample : Wg1859056-1,32,,ah Quant Date : 12/4/2023 8:03 pm

Compound #32: Benzo[a]anthracene



Original Peak Response = 101



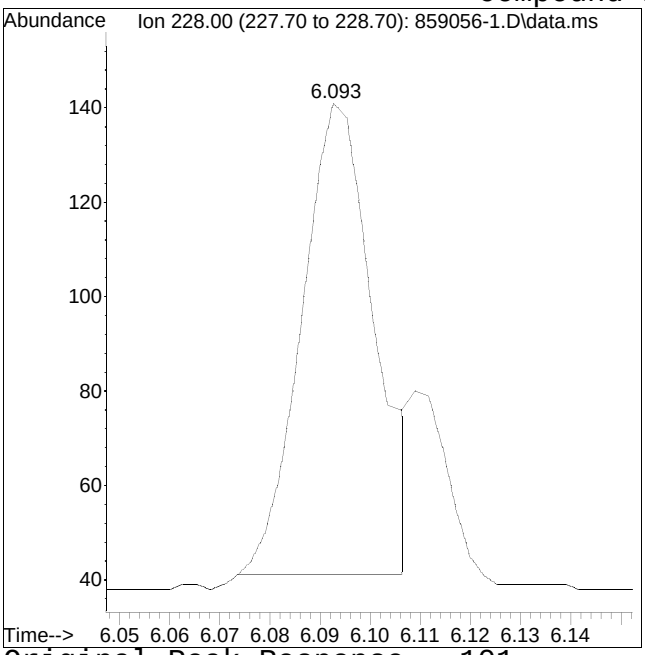
Manual Peak Response = 105 M1

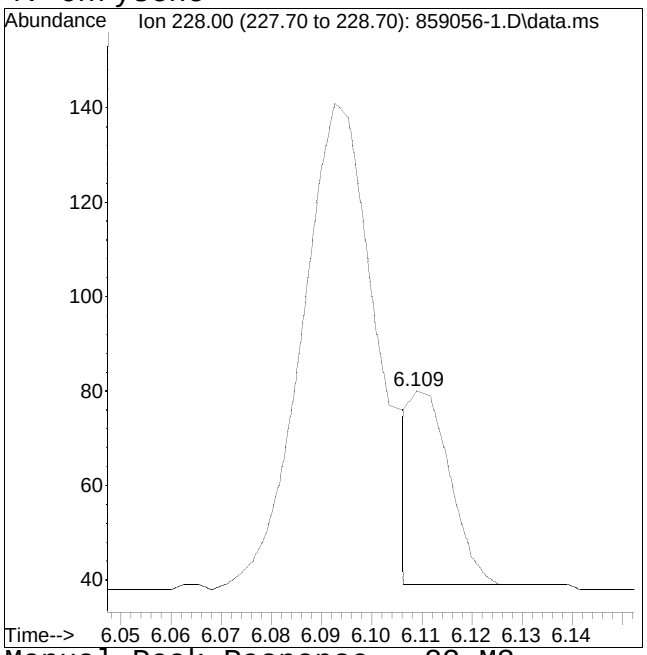
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : 859056-1.D Operator : SV128:ah
Date Inj'd : 12/4/2023 7:49 pm Instrument : SV128
Sample : Wg1859056-1,32,,ah Quant Date : 12/4/2023 8:03 pm

Compound #34: Chrysene





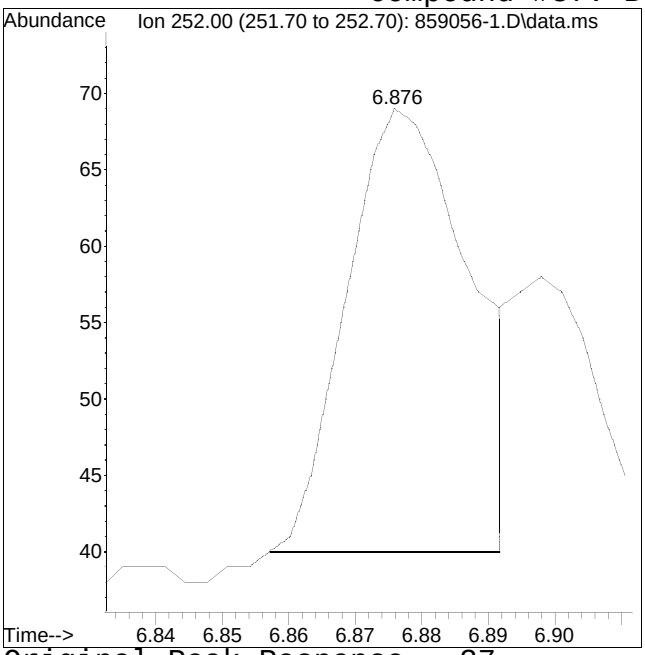
Original Peak Response = 101 Manual Peak Response = 22 M3

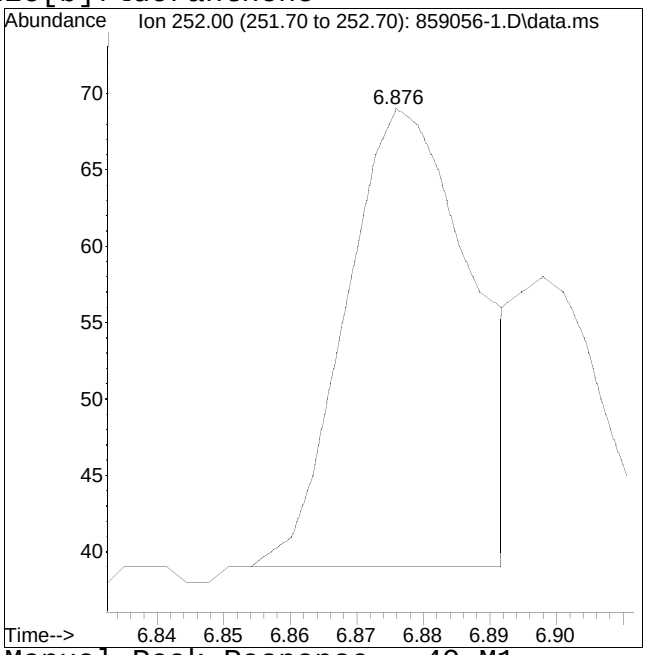
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : 859056-1.D Operator : SV128:ah
Date Inj'd : 12/4/2023 7:49 pm Instrument : SV128
Sample : Wg1859056-1,32,,ah Quant Date : 12/4/2023 8:03 pm

Compound #37: Benzo[b]fluoranthene



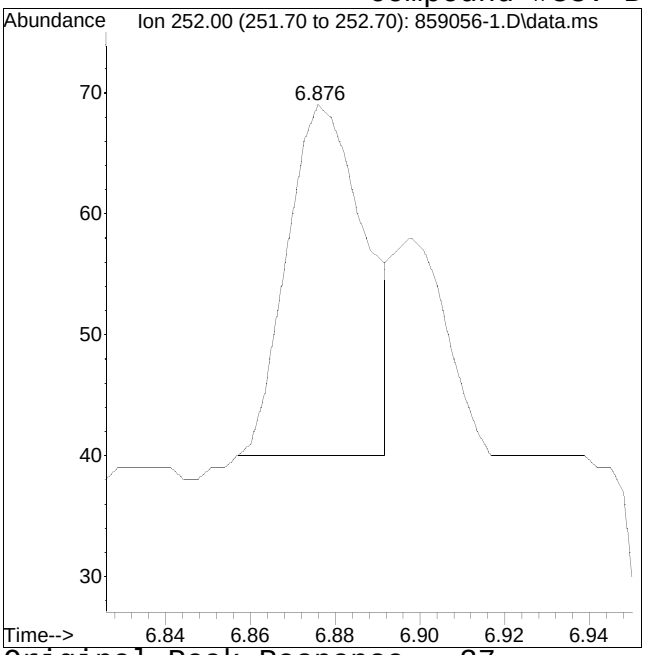


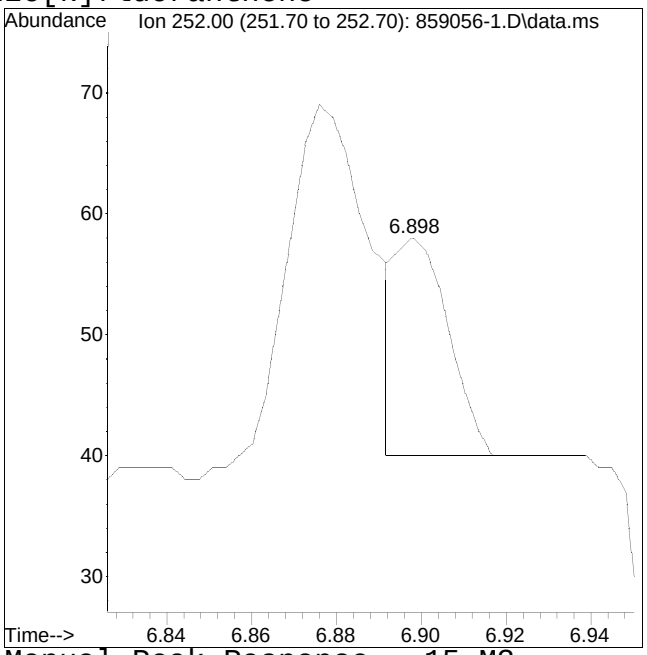
Original Peak Response = 37 Manual Peak Response = 40 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : 859056-1.D Operator : SV128:ah
Date Inj'd : 12/4/2023 7:49 pm Instrument : SV128
Sample : Wg1859056-1,32,,ah Quant Date : 12/4/2023 8:03 pm

Compound #38: Benzo[k]fluoranthene





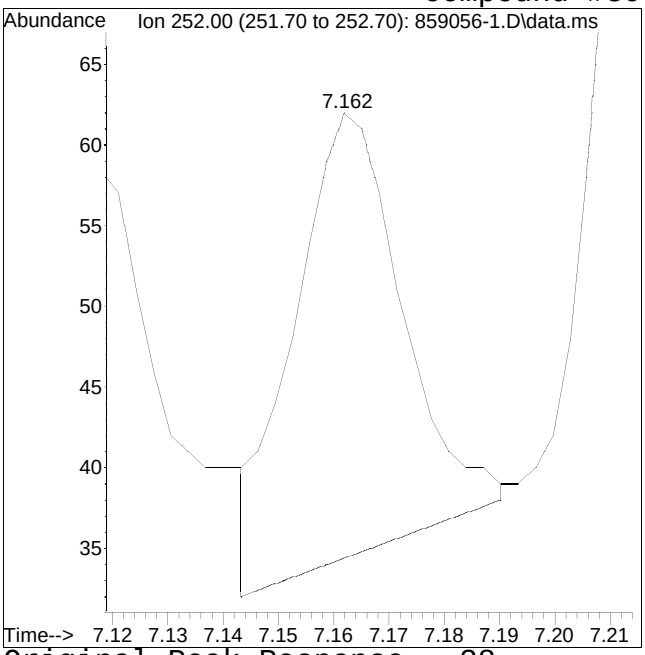
Original Peak Response = 37 Manual Peak Response = 15 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

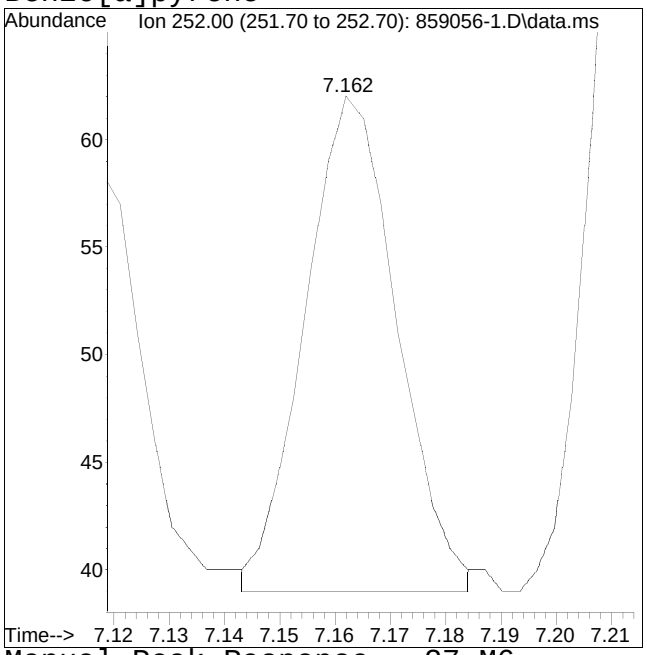
Data Path : I:\8270SIM\SV128\231204\
Data File : 859056-1.D
Date Inj'd : 12/4/2023 7:49 pm
Sample : Wg1859056-1,32,,ah

QMethod : SIM-LVI_230831_sv128.M
Operator : SV128:ah
Instrument : SV128
Quant Date : 12/4/2023 8:03 pm

Compound #39: Benzo[a]pyrene



Original Peak Response = 38



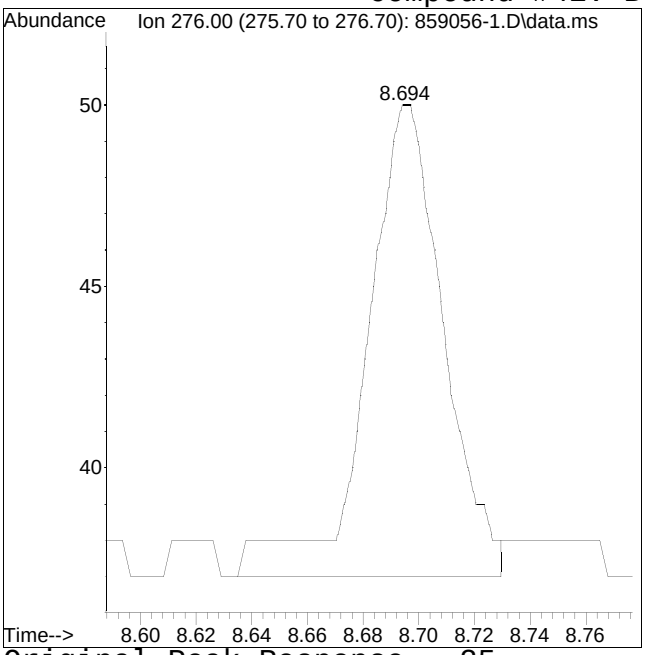
Manual Peak Response = 27 M6

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

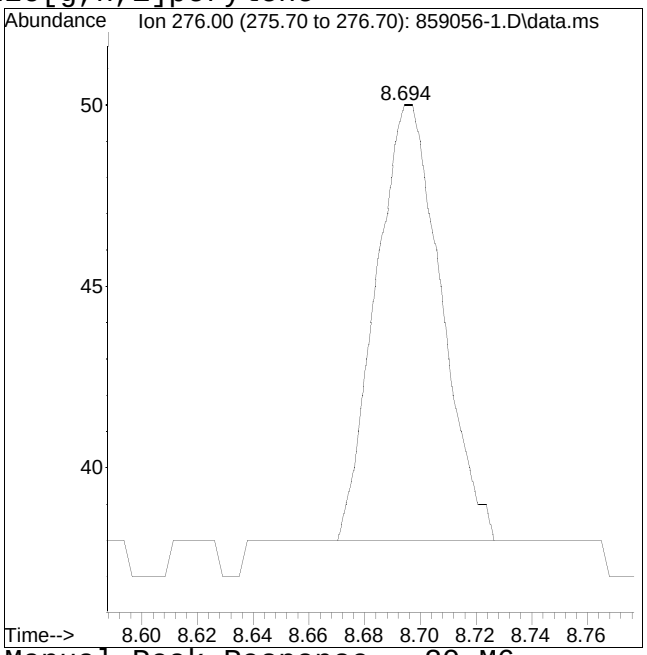
Manual Integration Report

Data Path : I:\8270SIM\SV128\231204\ QMethod : SIM-LVI_230831_sv128.M
Data File : 859056-1.D Operator : SV128:ah
Date Inj'd : 12/4/2023 7:49 pm Instrument : SV128
Sample : Wg1859056-1,32,,ah Quant Date : 12/4/2023 8:03 pm

Compound #42: Benzo[g,h,i]perylene



Original Peak Response = 25



Manual Peak Response = 20 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : 59056-2.D
Acq On : 06 Dec 2023 01:11 pm
Operator : SV125:jjw
Sample : Wg1859056-2,32,,RV,ah
Misc : WG1860343,wg1859056,ical20477
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 06 14:23:57 2023
Quant Method : I:\8270sim\sv125\231206LVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:46:03 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231206LVI\ccv1206.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.966	152	36268	4000.000	ng/ml	0.00
Standard Area 1 = 37043			Recovery = 97.91%			
9) Naphthalene-d8	2.634	136	140610	4000.000	ng/ml	0.00
Standard Area 1 = 139573			Recovery = 100.74%			
18) Acenaphthene-d10	3.612	164	78631	4000.000	ng/ml	0.00
Standard Area 1 = 77260			Recovery = 101.77%			
23) Phenanthrene-d10	4.450	188	166870	4000.000	ng/ml	0.00
Standard Area 1 = 163874			Recovery = 101.83%			
32) Chrysene-d12	5.952	240	171876	4000.000	ng/ml	-0.02
Standard Area 1 = 166022			Recovery = 103.53%			
37) Perylene-d12	6.954	264	210518	4000.000	ng/ml	-0.02
Standard Area 1 = 202112			Recovery = 104.16%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.379	112	29980	3258.982	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 65.18%			
4) Phenol-d6	1.795	99	32054	3011.955	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 60.24%			
8) Nitrobenzene-d5	2.251	82	16773	2027.871	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 81.11%			
14) 2-Fluorobiphenyl	3.241	172	42383	1573.945	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 62.96%			
22) 2,4,6-Tribromophenol	4.061	330	15337	3767.684	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 75.35%			
31) 4-Terphenyl-d14	5.363	244	57676	1807.767	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 72.31%			
Target Compounds						Qvalue
7) Hexachloroethane	2.225	117	12271	2819.917	ng/ml	98
10) Naphthalene	2.643	128	105503	2989.134	ng/ml#	100
11) Hexachlorobutadiene	2.722	225	16442	2583.841	ng/ml	100
12) 2-Methylnaphthalene	3.026	142	70535	3113.124	ng/ml	100
15) 2-Chloronaphthalene	3.301	162	69613	3001.378	ng/ml	89
17) Acenaphthylene	3.533	152	110066	3223.891	ng/ml	99
19) Acenaphthene	3.630	153	77774	3048.069	ng/ml	97
21) Fluorene	3.924	166	85658	3182.969	ng/ml	100
25) Hexachlorobenzene	4.237	284	28686	2979.881	ng/ml	99
26) Pentachlorophenol	4.353	266	7126	1705.164	ng/ml	100

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : 59056-2.D
Acq On : 06 Dec 2023 01:11 pm
Operator : SV125:jjw
Sample : Wg1859056-2,32,,RV,ah
Misc : WG1860343,wg1859056,ical20477
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 06 14:23:57 2023
Quant Method : I:\8270sim\sv125\231206LVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:46:03 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231206LVI\ccv1206.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	4.462	178	138514	3327.044	ng/ml	100
28) Anthracene	4.492	178	138974	3566.289	ng/ml	100
29) Fluoranthene	5.136	202	173434	3788.383	ng/ml	95
30) Pyrene	5.261	202	184023	3836.703	ng/ml	99
33) Benzo[a]anthracene	5.947	228	195569	3611.078	ng/ml	100
35) Chrysene	5.966	228	184781	3342.893	ng/ml	100
38) Benzo[b]fluoranthene	6.649	252	224019	3948.800	ng/ml	100
39) Benzo[k]fluoranthene	6.668	252	201257	3575.698	ng/ml	100
40) Benzo[a]pyrene	6.904	252	181437	3648.442	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	7.976	276	221952	4287.853	ng/ml#	90
42) Dibenzo[a,h]anthracene	8.008	278	202050M6	4035.037	ng/ml	
43) Benzo[g,h,i]perylene	8.263	276	207182	3700.815	ng/ml	92

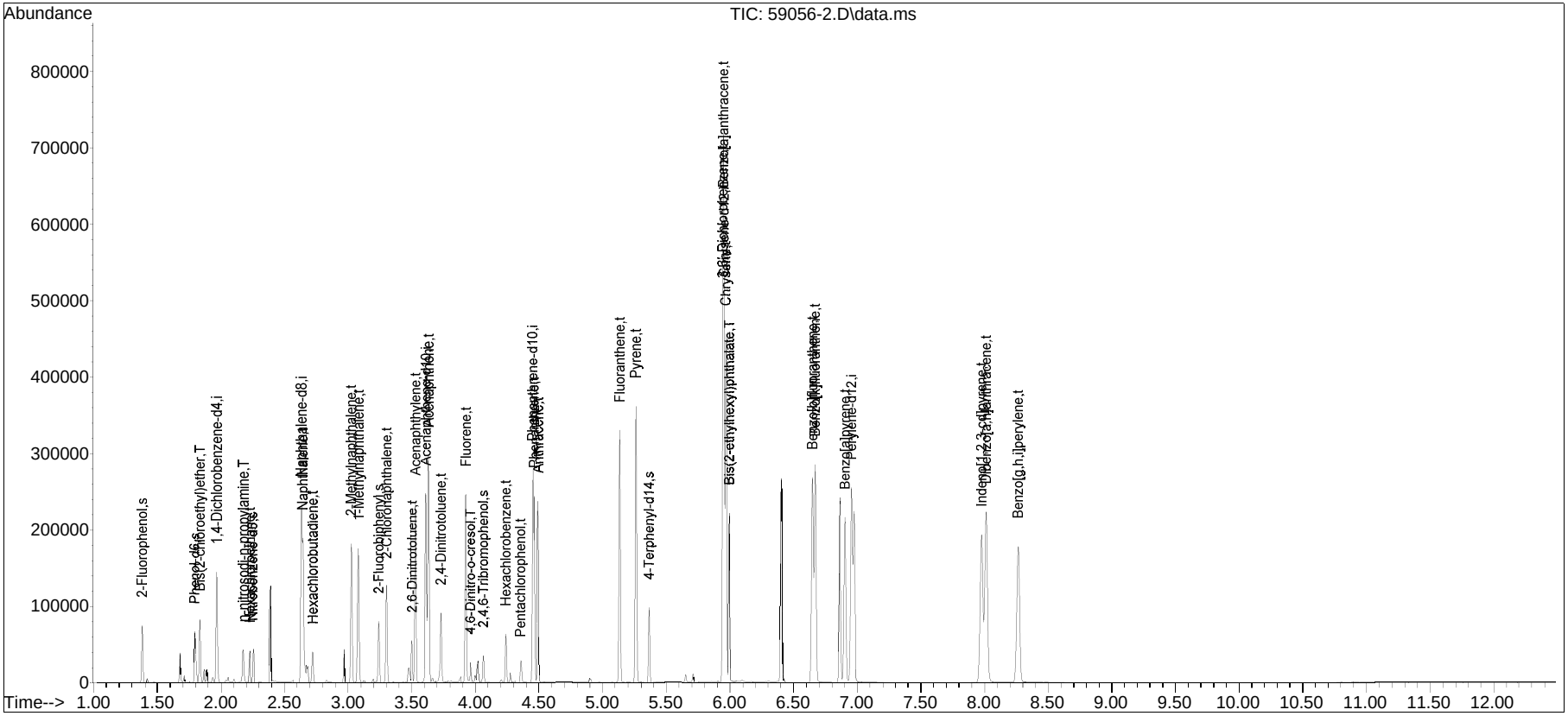
(#) = qualifier out of range (m) = manual integration (+) = signals summed

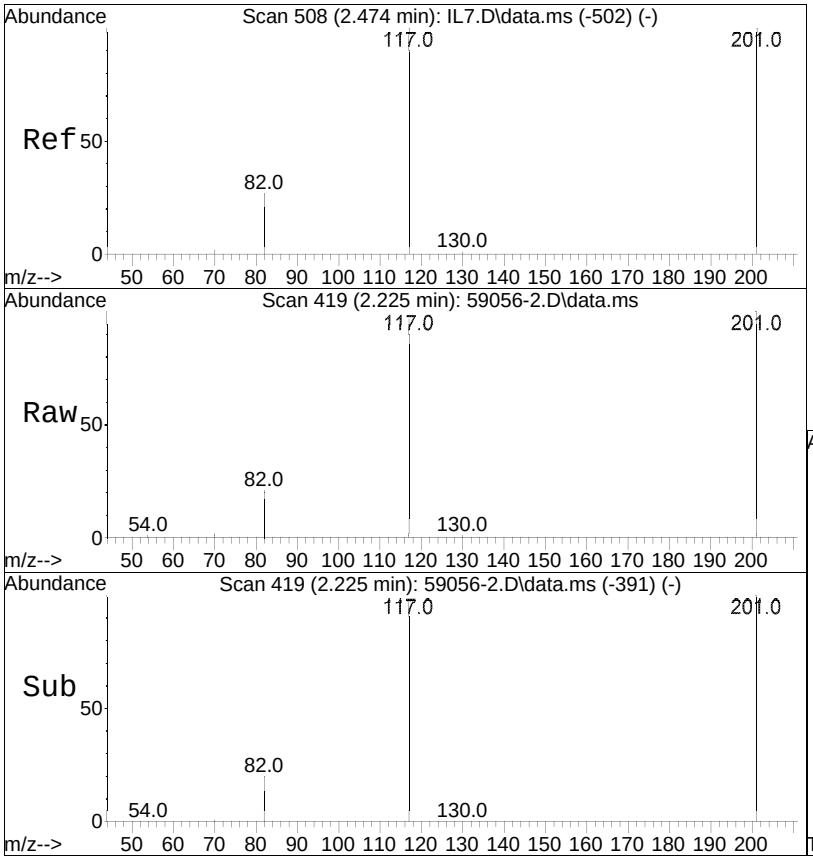
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : 59056-2.D
Acq On : 06 Dec 2023 01:11 pm
Operator : SV125:jjw
Sample : Wg1859056-2,32,,RV,ah
Misc : WG1860343,wg1859056,ical20477
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 06 14:23:57 2023
Quant Method : I:\8270sim\sv125\231206LVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:46:03 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1206.D•

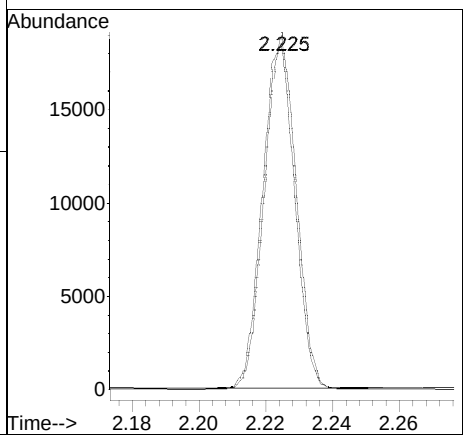


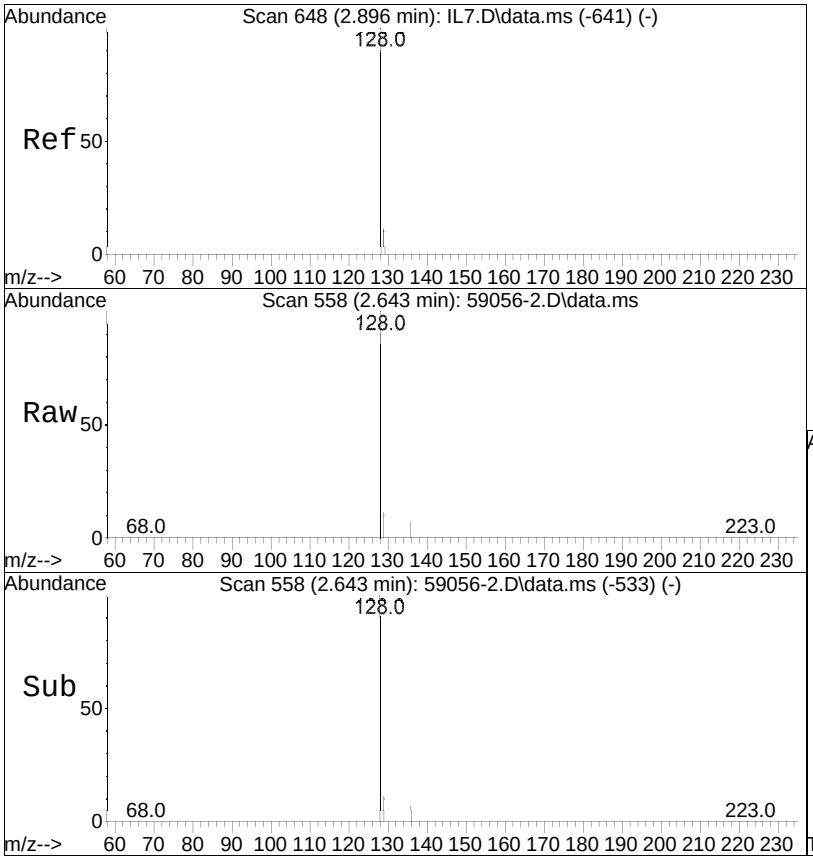


#7
Hexachloroethane
Concen: 2819.92 ng/ml
RT: 2.225 min Scan# 419
Delta R.T. -0.000 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:117 Resp: 12271

Ion	Ratio	Lower	Upper
117	100		
201	100.7	81.9	122.9

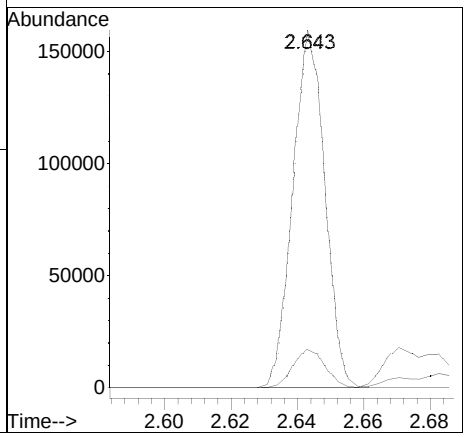


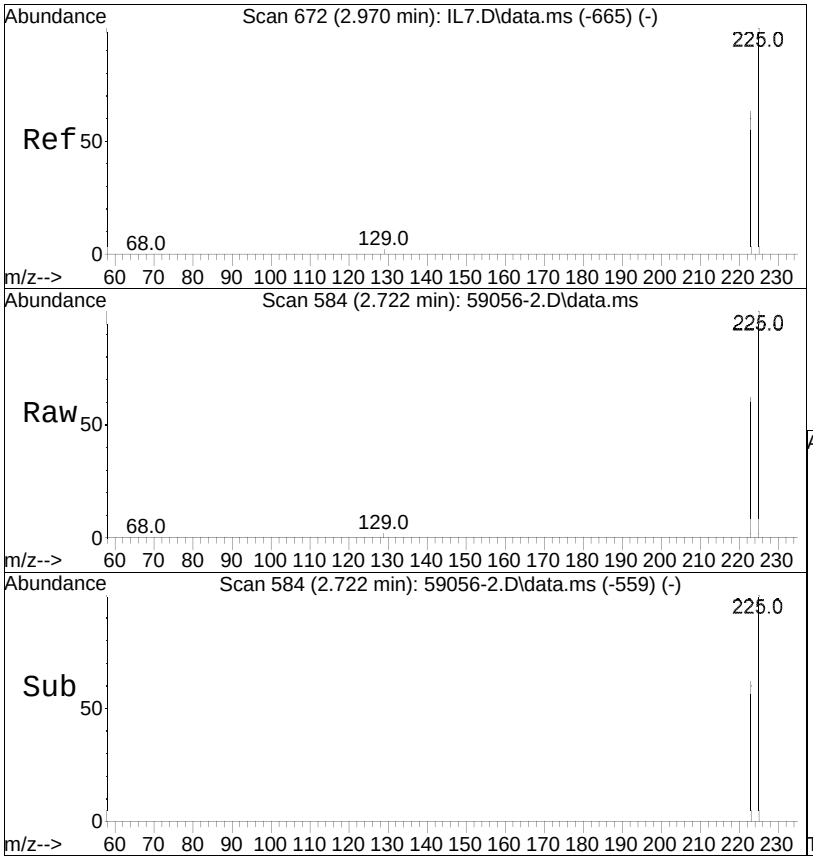


#10
Naphthalene
Concen: 2989.13 ng/ml
RT: 2.643 min Scan# 558
Delta R.T. -0.003 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:128 Resp: 105503

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	0.0	0.0	0.0

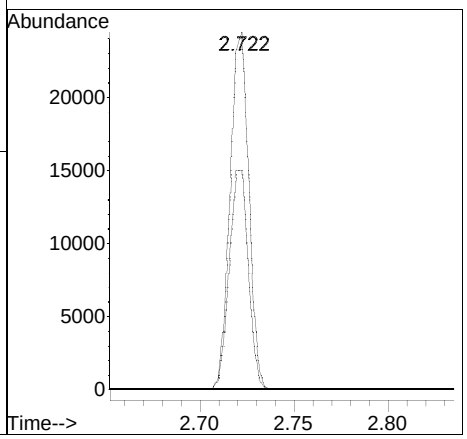


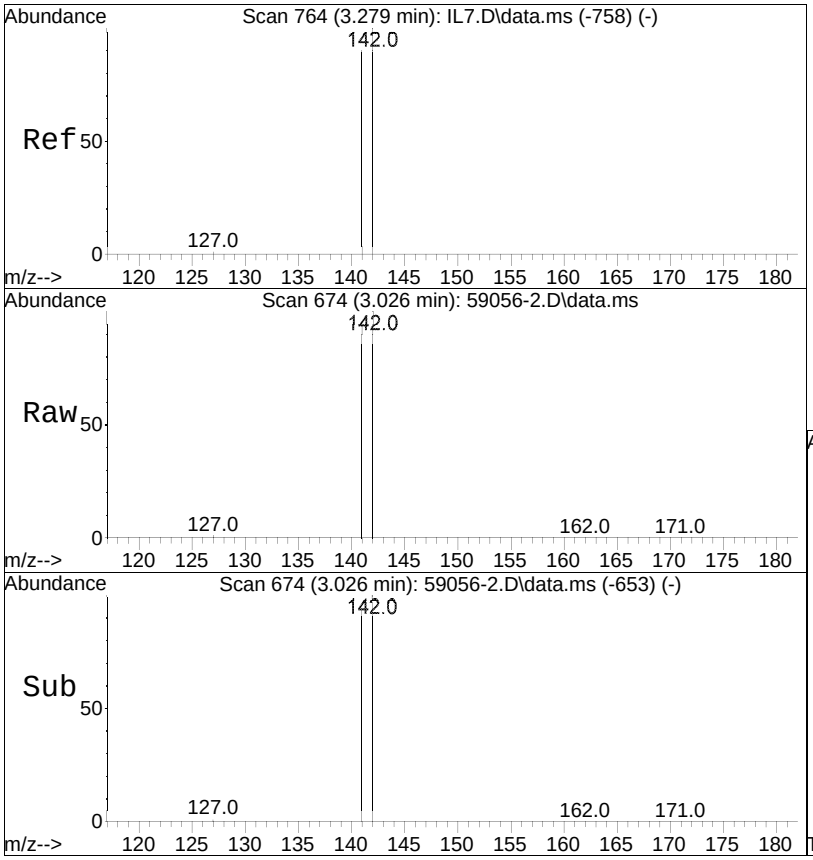


#11
Hexachlorobutadiene
Concen: 2583.84 ng/ml
RT: 2.722 min Scan# 584
Delta R.T. -0.003 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:225 Resp: 16442

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.2

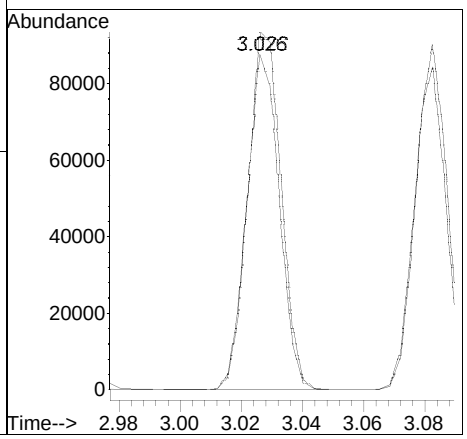


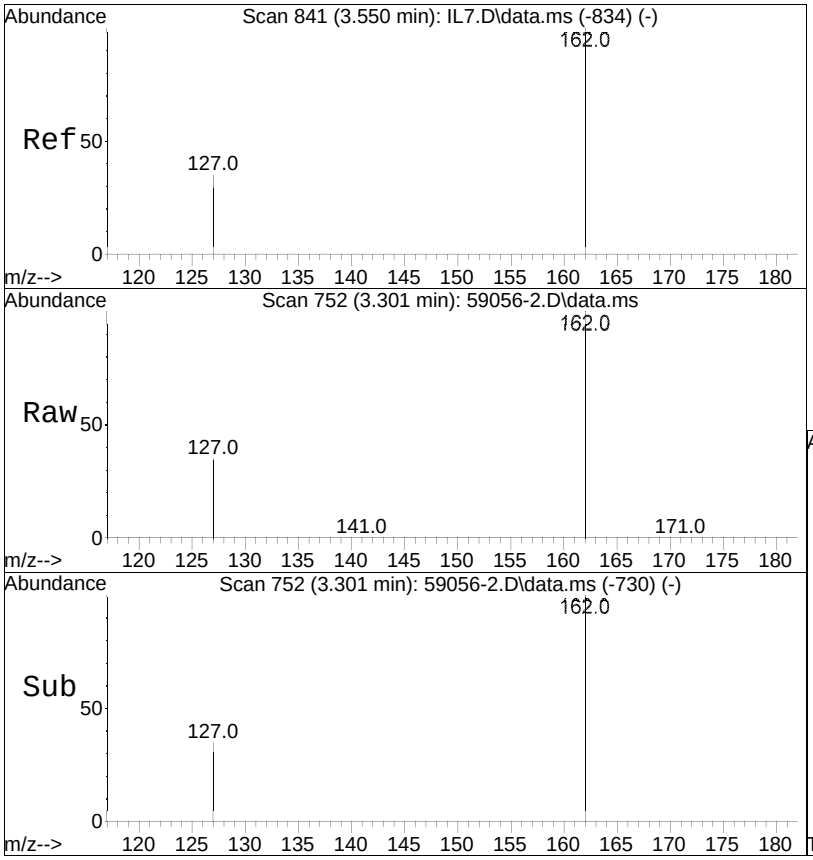


#12
2-Methylnaphthalene
Concen: 3113.12 ng/ml
RT: 3.026 min Scan# 674
Delta R.T. -0.007 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:142 Resp: 70535

Ion	Ratio	Lower	Upper
142	100		
141	91.5	73.6	110.4

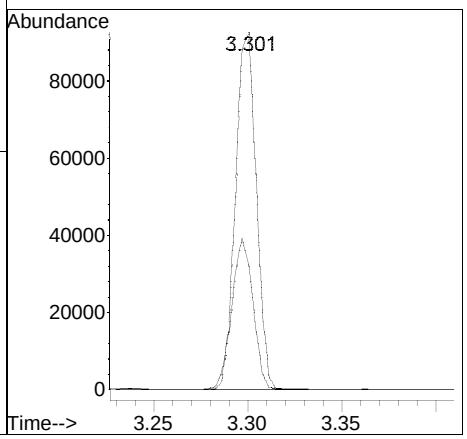


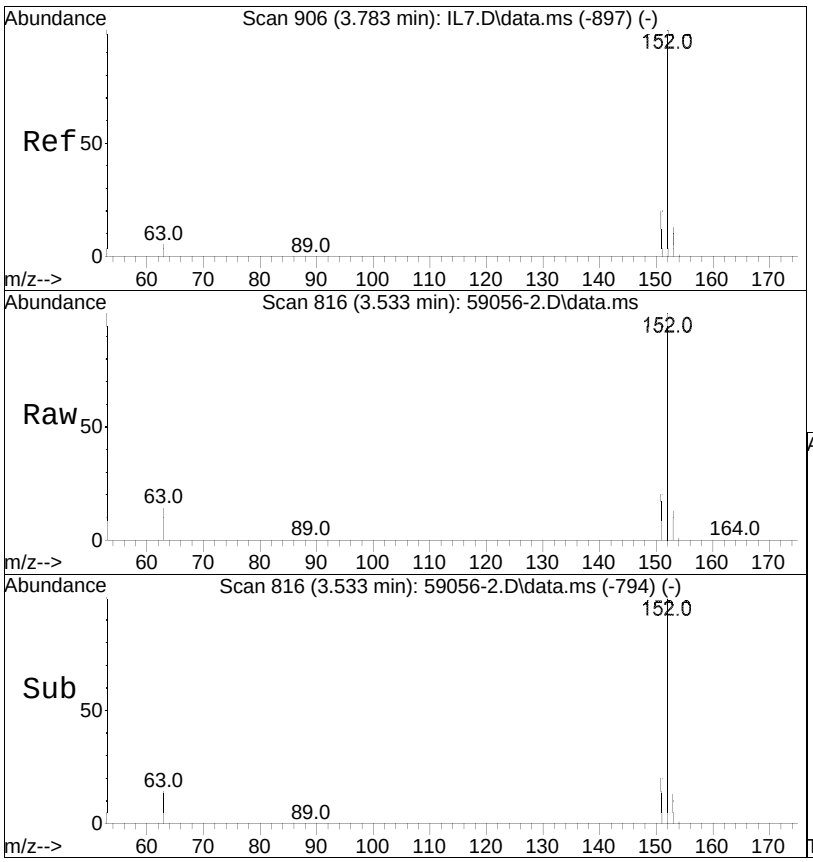


#15
2-Chloronaphthalene
Concen: 3001.38 ng/ml
RT: 3.301 min Scan# 752
Delta R.T. -0.003 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:162 Resp: 69613

Ion	Ratio	Lower	Upper
162	100		
127	43.1	29.1	43.7

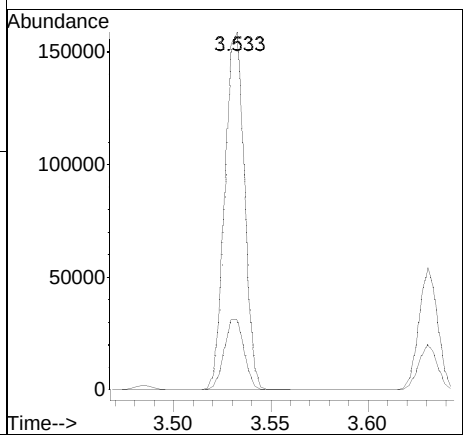


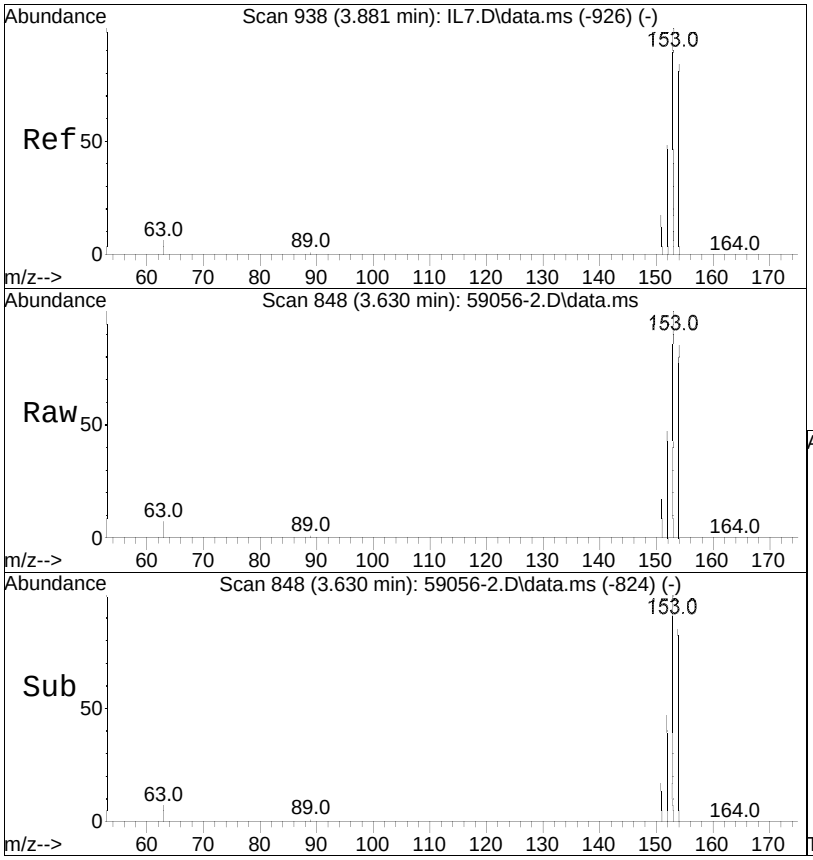


#17
Acenaphthylene
Concen: 3223.89 ng/ml
RT: 3.533 min Scan# 816
Delta R.T. -0.003 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:152 Resp: 110066

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.8

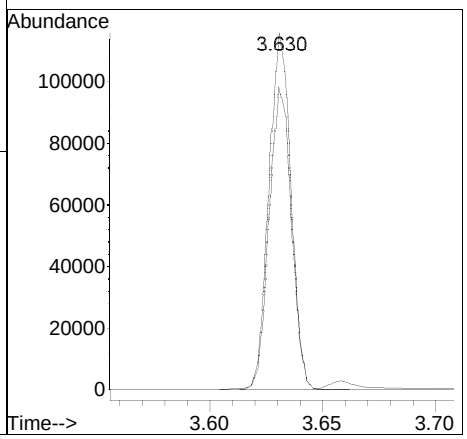


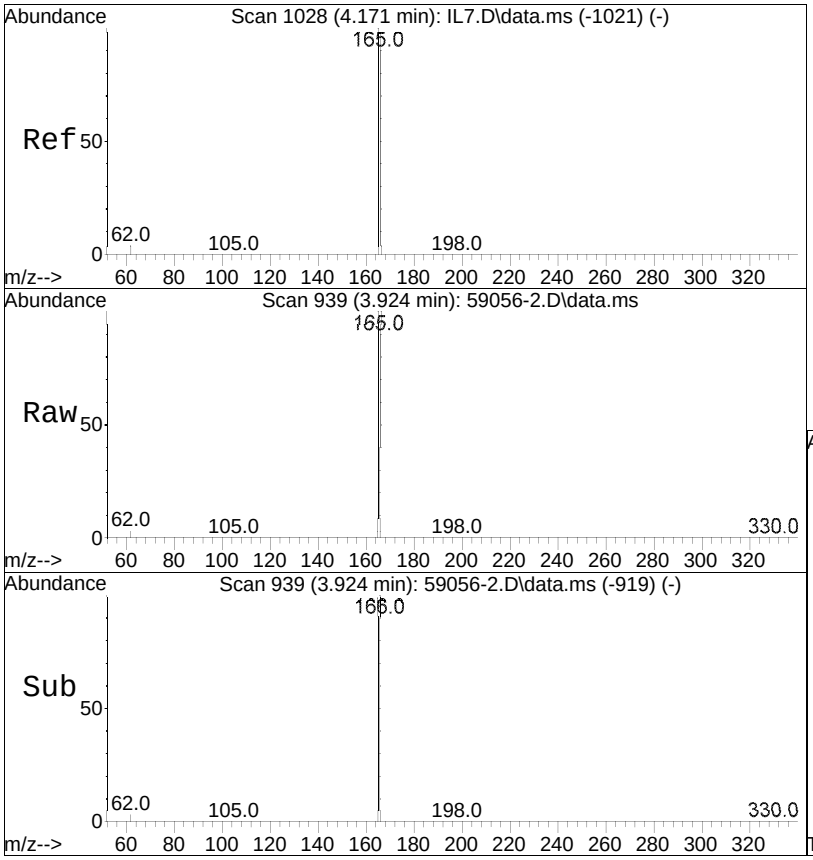


#19
Acenaphthene
Concen: 3048.07 ng/ml
RT: 3.630 min Scan# 848
Delta R.T. -0.006 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:153 Resp: 77774

Ion	Ratio	Lower	Upper
153	100		
154	85.8	70.8	106.2

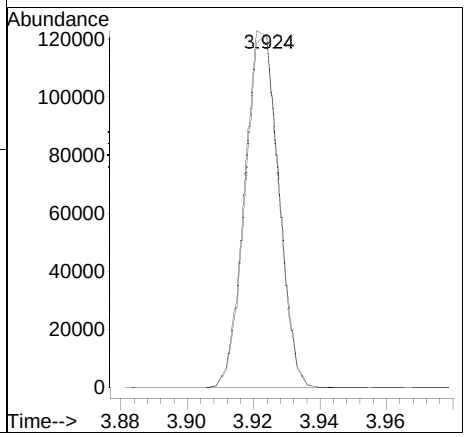


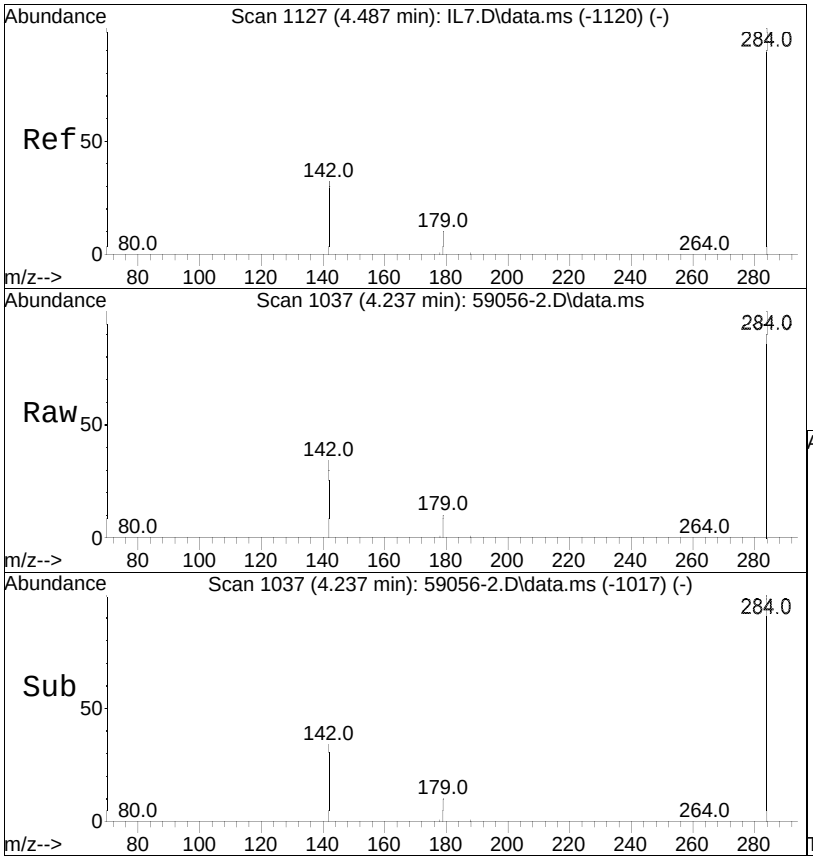


#21
Fluorene
Concen: 3182.97 ng/ml
RT: 3.924 min Scan# 939
Delta R.T. -0.003 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:166 Resp: 85658

Ion	Ratio	Lower	Upper
166	100		
165	101.4	81.0	121.4

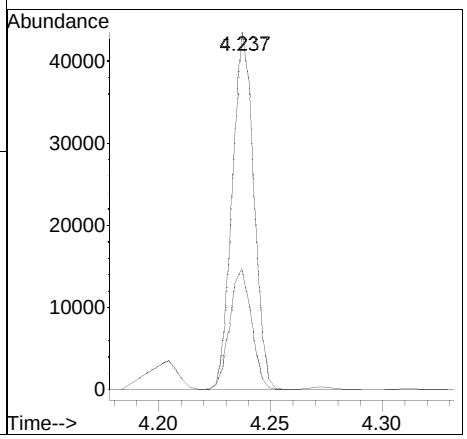


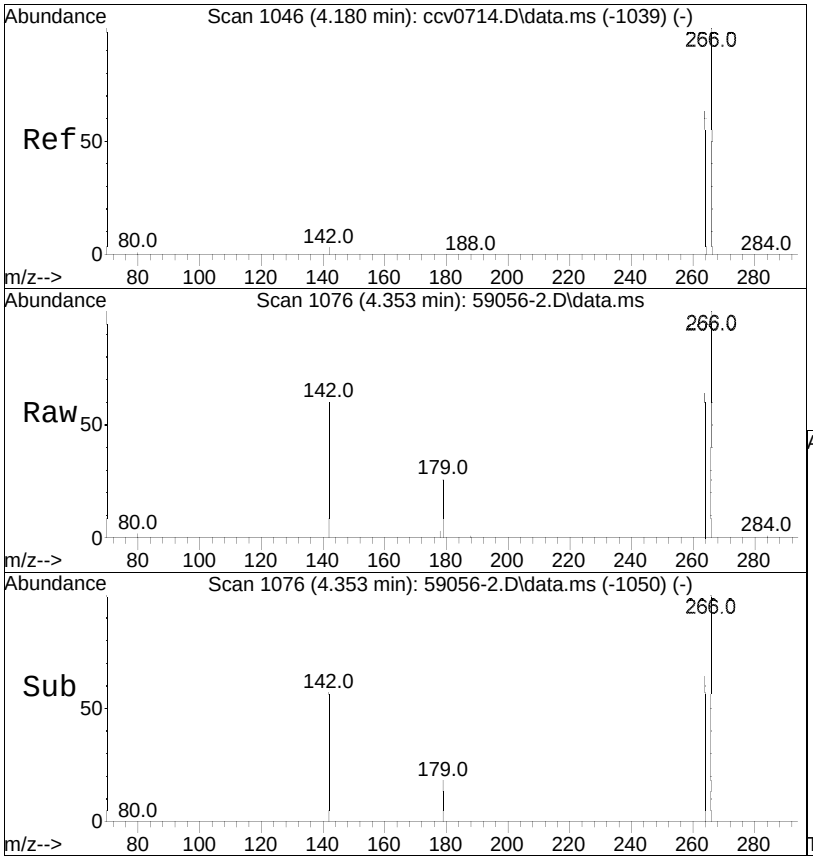


#25
Hexachlorobenzene
Concen: 2979.88 ng/ml
RT: 4.237 min Scan# 1037
Delta R.T. -0.005 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:284 Resp: 28686

Ion	Ratio	Lower	Upper
284	100		
142	34.2	27.7	41.5

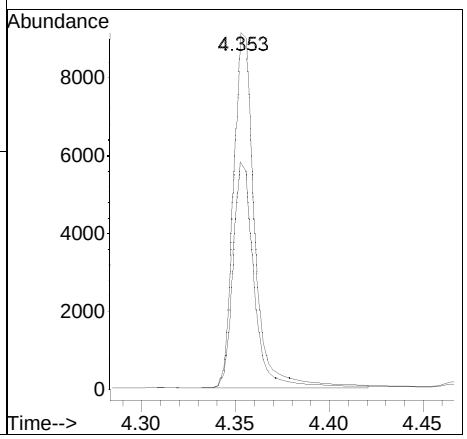


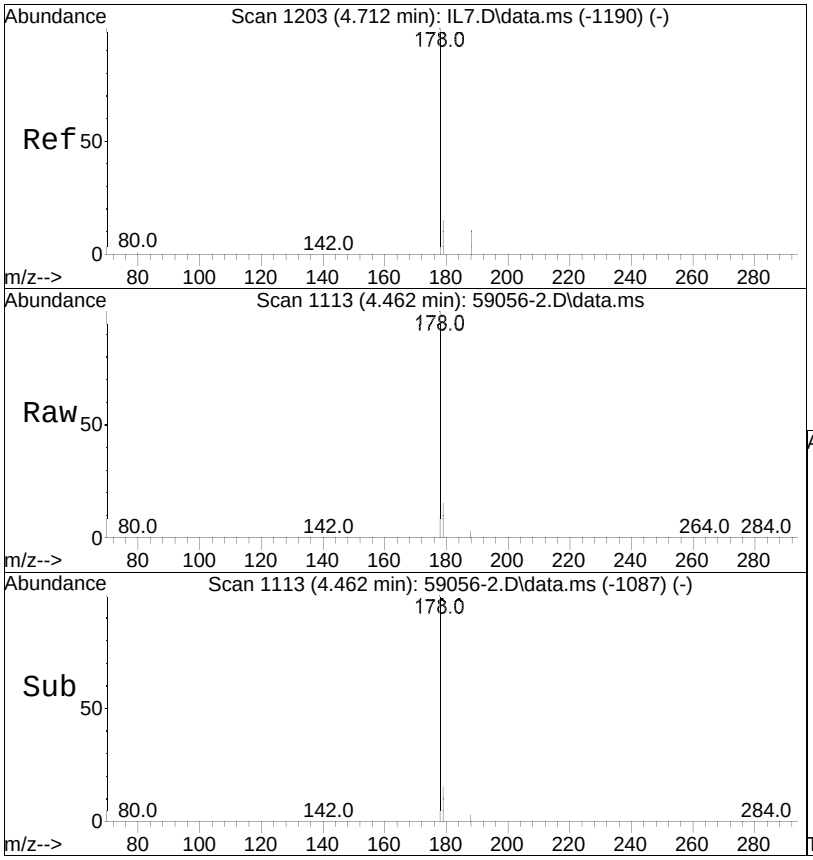


#26
Pentachlorophenol
Concen: 1705.16 ng/ml
RT: 4.353 min Scan# 1076
Delta R.T. -0.002 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:266 Resp: 7126

Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.9	76.3

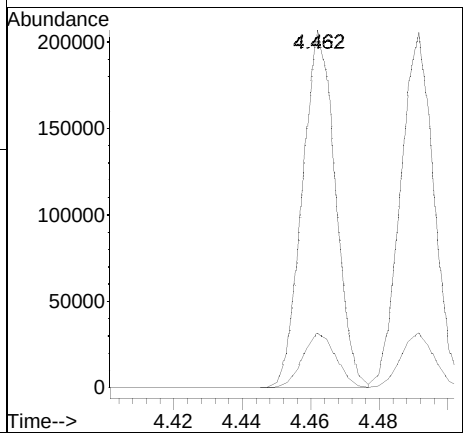


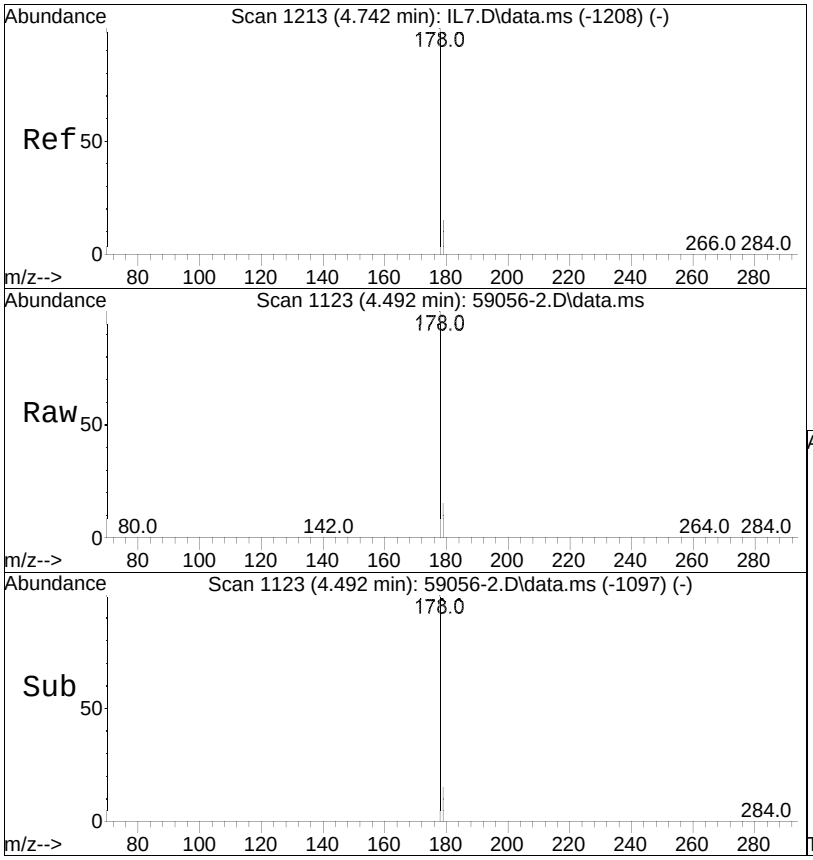


#27
Phenanthrene
Concen: 3327.04 ng/ml
RT: 4.462 min Scan# 1113
Delta R.T. -0.002 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:178 Resp: 138514

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.3	18.5

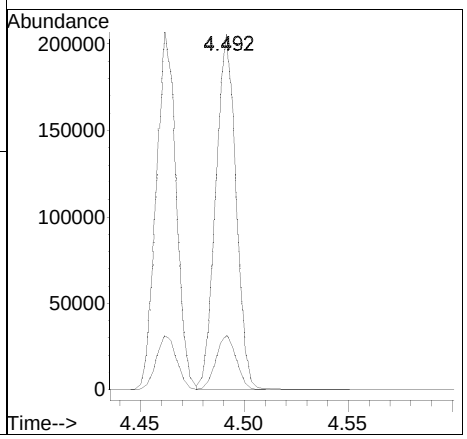


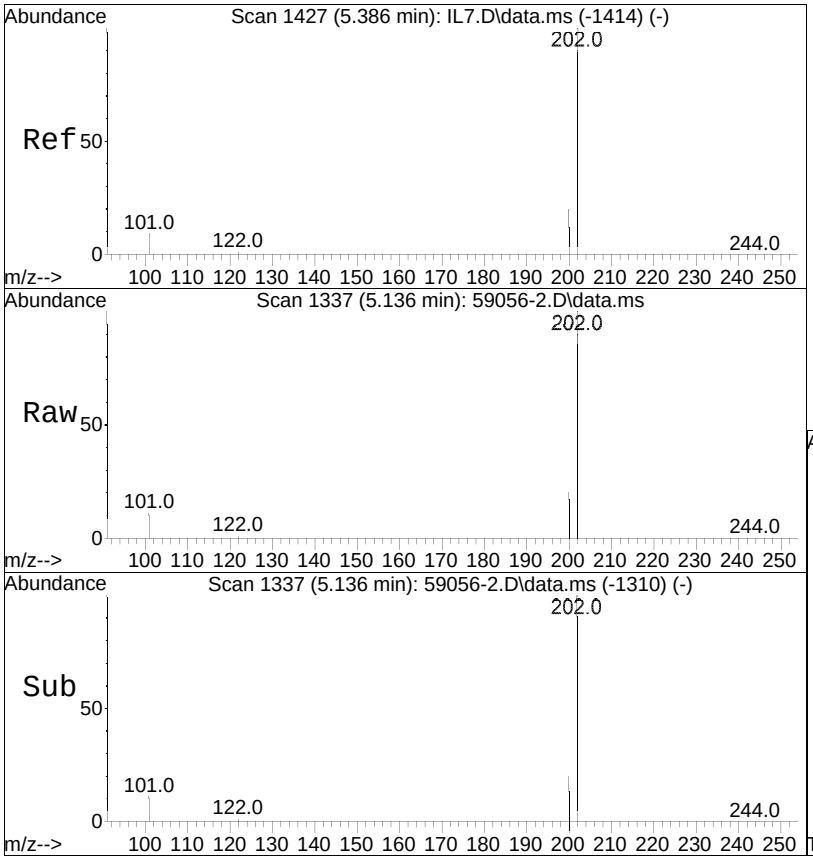


#28
Anthracene
Concen: 3566.29 ng/ml
RT: 4.492 min Scan# 1123
Delta R.T. -0.002 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:178 Resp: 138974

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

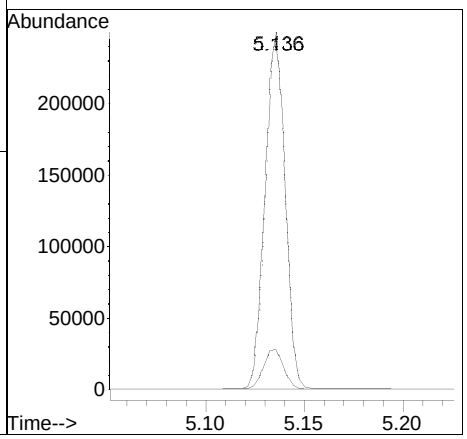


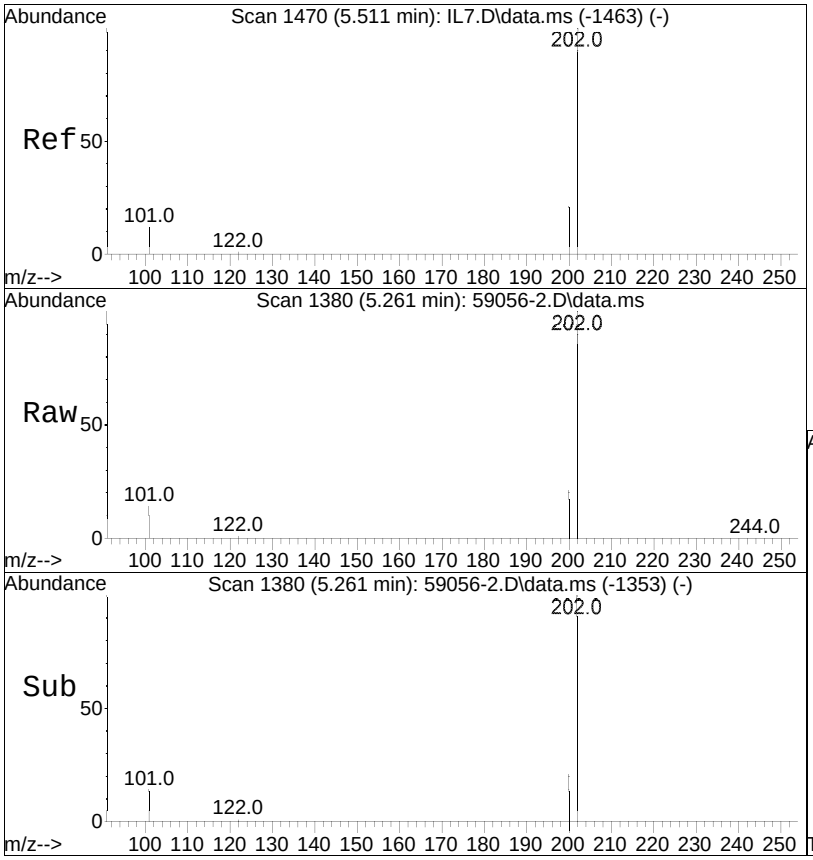


#29
Fluoranthene
Concen: 3788.38 ng/ml
RT: 5.136 min Scan# 1337
Delta R.T. -0.002 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:202 Resp: 173434

Ion	Ratio	Lower	Upper
202	100		
101	11.7	7.8	11.8

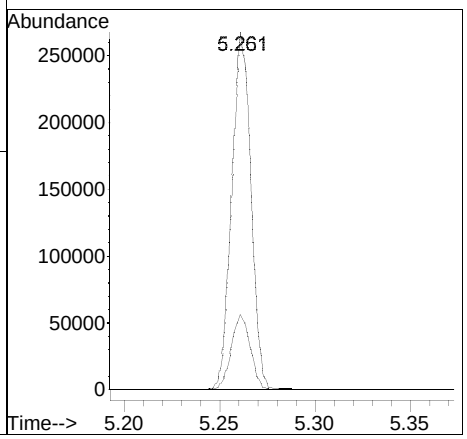


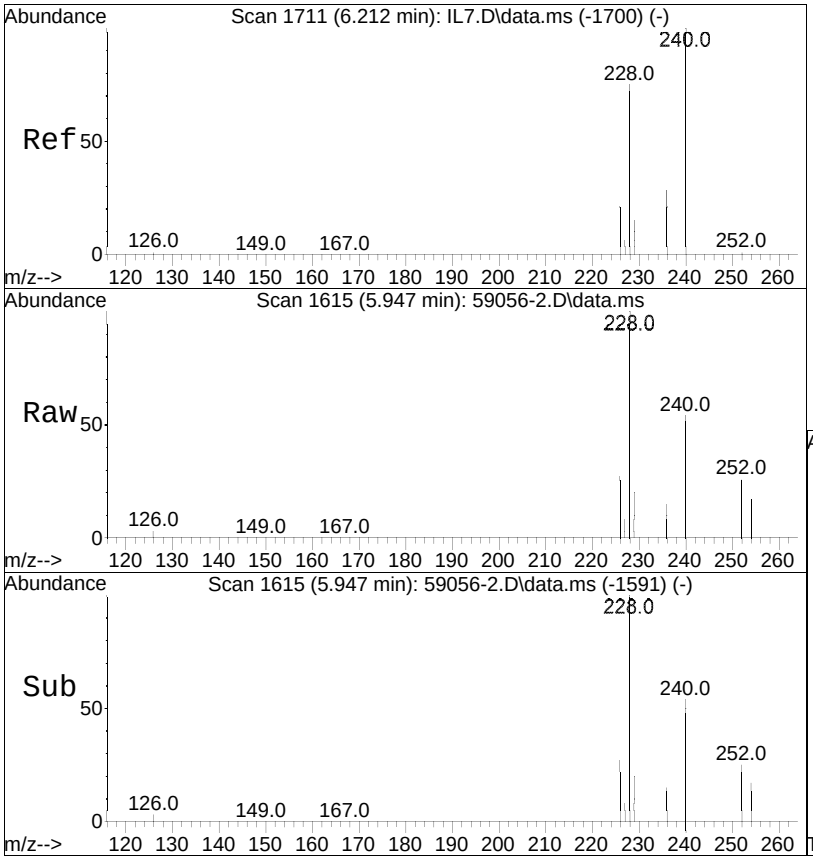


#30
Pyrene
Concen: 3836.70 ng/ml
RT: 5.261 min Scan# 1380
Delta R.T. -0.002 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:202 Resp: 184023

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4

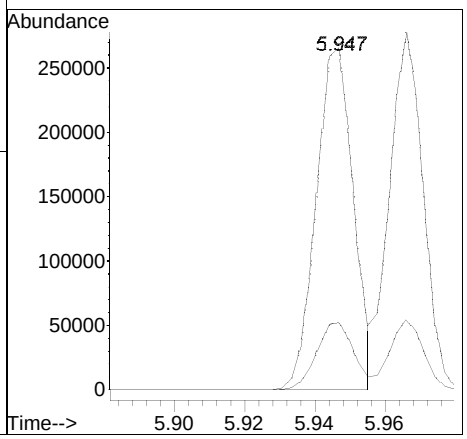


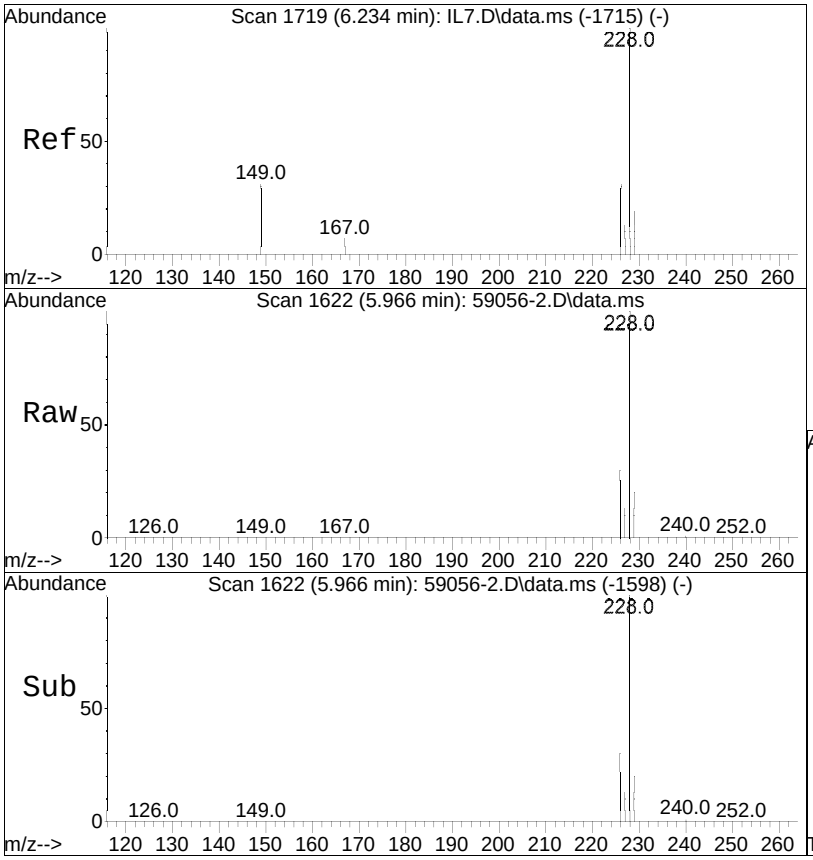


#33
Benzo[a]anthracene
Concen: 3611.08 ng/ml
RT: 5.947 min Scan# 1615
Delta R.T. -0.016 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:228 Resp: 195569

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

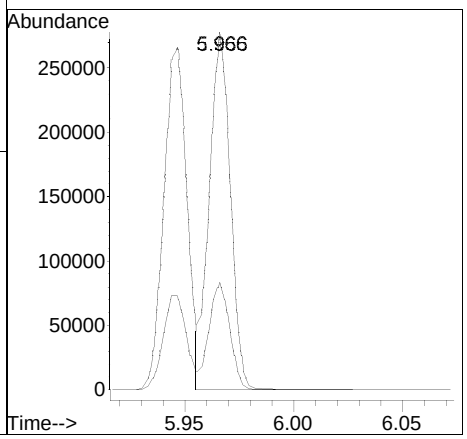


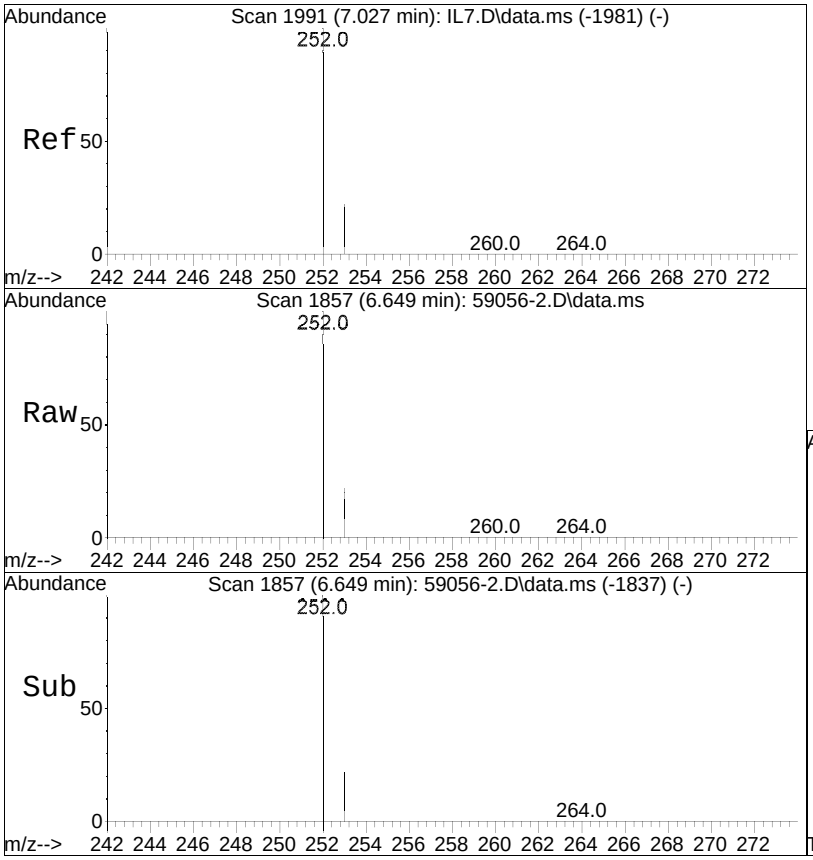


#35
Chrysene
Concen: 3342.89 ng/ml
RT: 5.966 min Scan# 1622
Delta R.T. -0.016 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:228 Resp: 184781

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.2	36.2

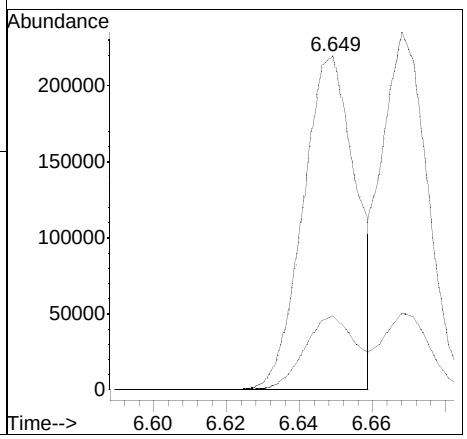


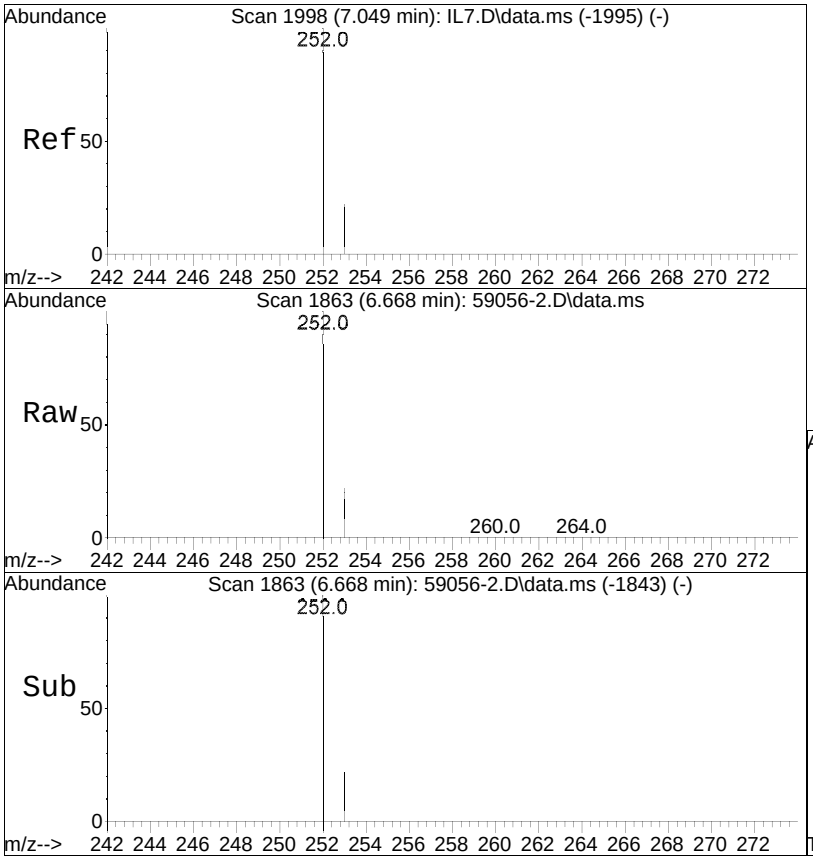


#38
Benzo[b]fluoranthene
Concen: 3948.80 ng/ml
RT: 6.649 min Scan# 1857
Delta R.T. -0.018 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:252 Resp: 224019

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.2	25.8

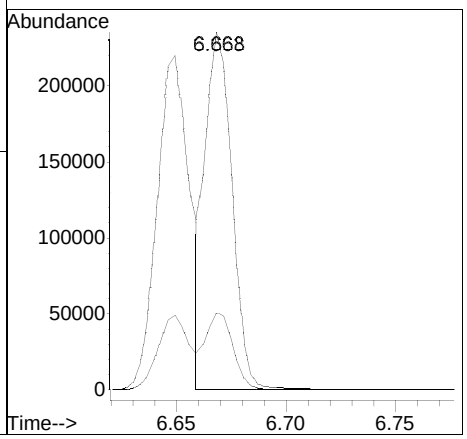


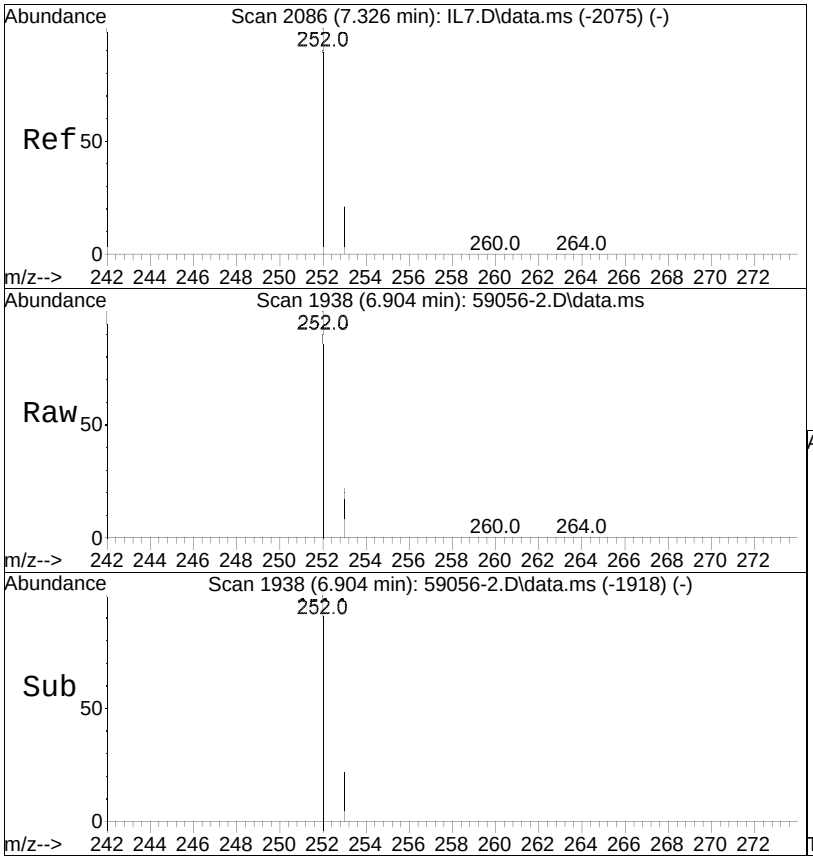


#39
Benzo[k]fluoranthene
Concen: 3575.70 ng/ml
RT: 6.668 min Scan# 1863
Delta R.T. -0.018 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:252 Resp: 201257

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3

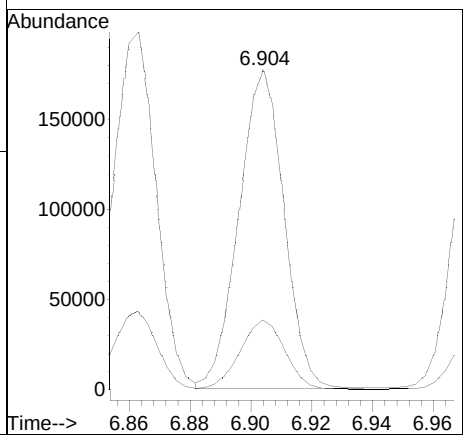


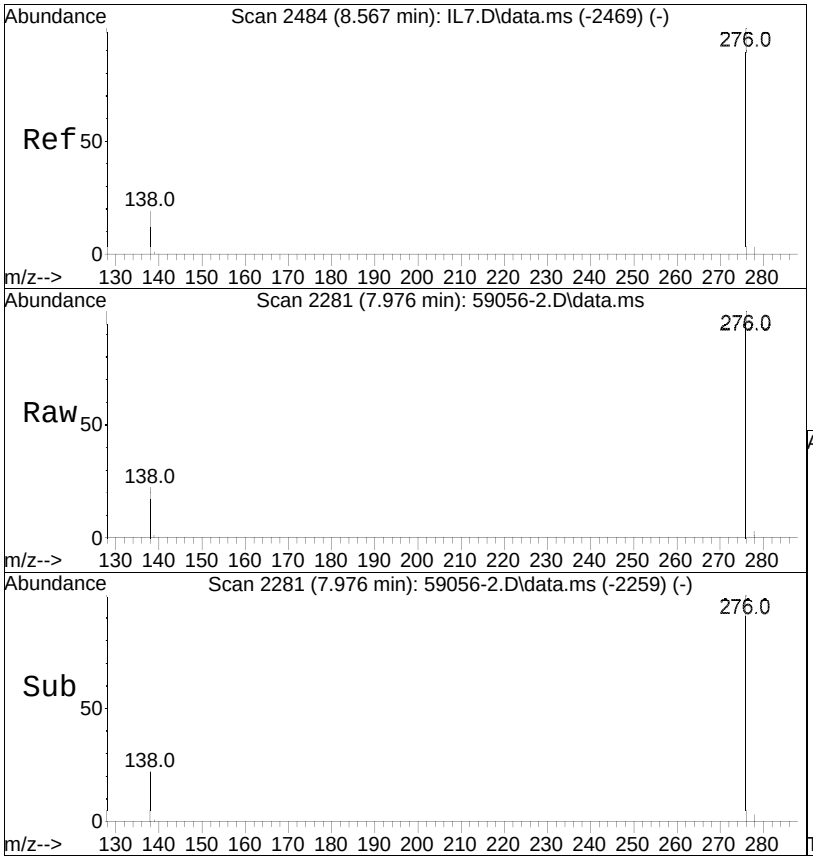


#40
Benzo[a]pyrene
Concen: 3648.44 ng/ml
RT: 6.904 min Scan# 1938
Delta R.T. -0.018 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:252 Resp: 181437

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.2	25.8

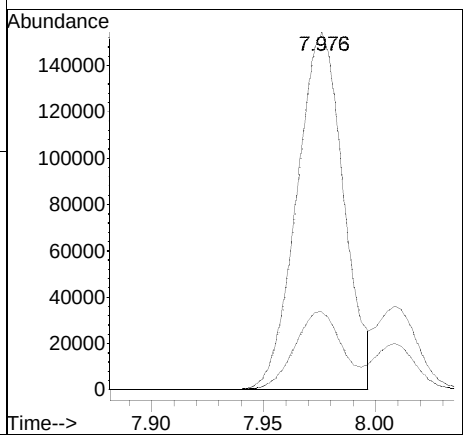


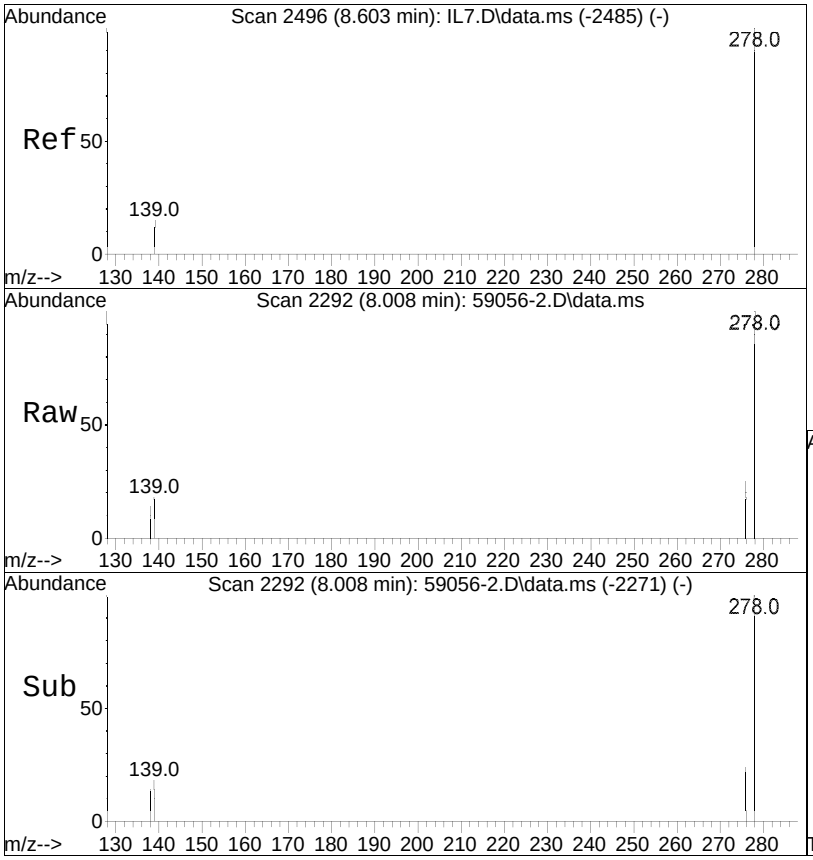


#41
Indeno[1,2,3-cd]pyrene
Concen: 4287.85 ng/ml
RT: 7.976 min Scan# 2281
Delta R.T. -0.014 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:276 Resp: 221952

Ion	Ratio	Lower	Upper
276	100		
138	22.4	14.5	21.7#

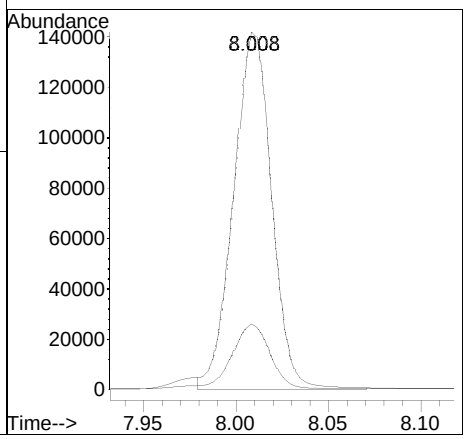


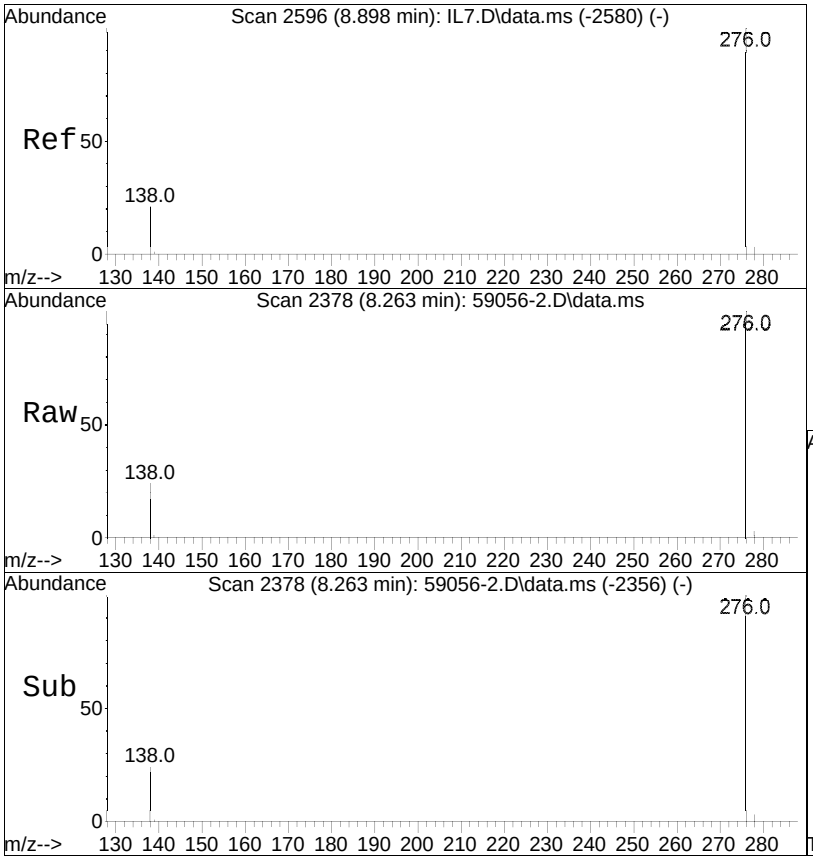


#42
Dibenzo[a,h]anthracene
Concen: 4035.04 ng/ml M6
RT: 8.008 min Scan# 2292
Delta R.T. -0.017 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:278 Resp: 202050

Ion	Ratio	Lower	Upper
278	100		
139	18.7	13.0	19.4

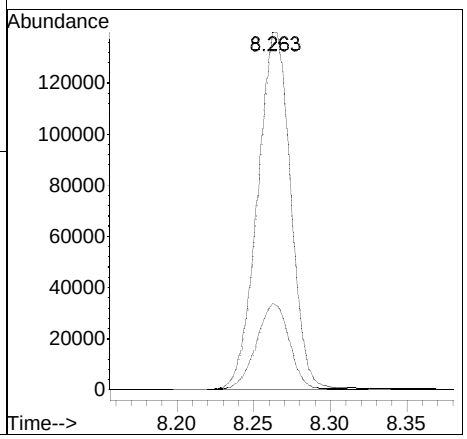




#43
Benzo[g,h,i]perylene
Concen: 3700.81 ng/ml
RT: 8.263 min Scan# 2378
Delta R.T. -0.014 min
Lab File: 59056-2.D
Acq: 06 Dec 2023 01:11 pm

Tgt Ion:276 Resp: 207182

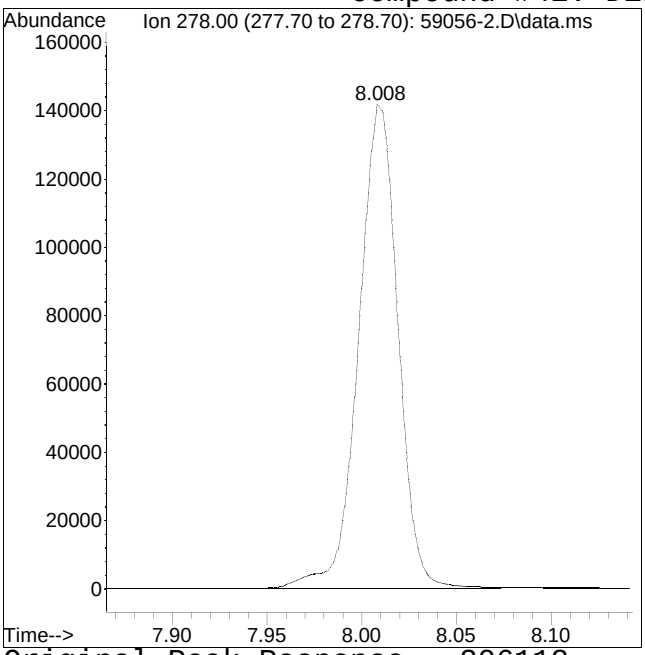
Ion	Ratio	Lower	Upper
276	100		
138	24.2	16.5	24.7



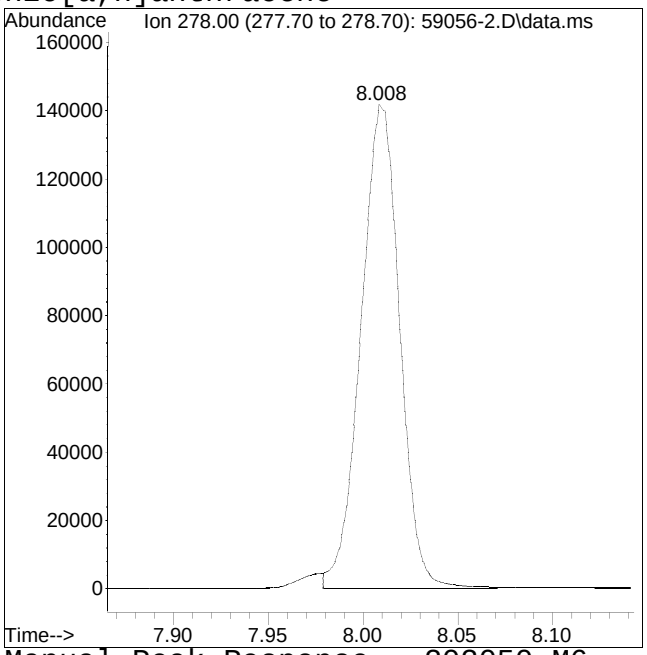
Manual Integration Report

Data Path : I:\8270SIM\SV125\231206LVIQMethod : SIM-LVI_231026_sv125.M
Data File : 59056-2.D Operator : SV125:jjw
Date Inj'd : 12/6/2023 1:11 pm Instrument : SV125
Sample : Wg1859056-2,32,,RV,ah Quant Date : 12/6/2023 1:34 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 206112



Manual Peak Response = 202050 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : 59056-3.D
Acq On : 06 Dec 2023 01:27 pm
Operator : SV125:jjw
Sample : Wg1859056-3,32,,RV,ah
Misc : WG1860343,wg1859056,ical20477
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 14:24:58 2023
Quant Method : I:\8270sim\sv125\231206LVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:46:03 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231206LVI\ccv1206.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	1.966	152	35170	4000.000	ng/ml	0.00
Standard Area 1 = 37043			Recovery = 94.94%			
9) Naphthalene-d8	2.634	136	135522	4000.000	ng/ml	0.00
Standard Area 1 = 139573			Recovery = 97.10%			
18) Acenaphthene-d10	3.612	164	75556	4000.000	ng/ml	0.00
Standard Area 1 = 77260			Recovery = 97.79%			
23) Phenanthrene-d10	4.450	188	157665	4000.000	ng/ml	0.00
Standard Area 1 = 163874			Recovery = 96.21%			
32) Chrysene-d12	5.952	240	151312	4000.000	ng/ml	-0.02
Standard Area 1 = 166022			Recovery = 91.14%			
37) Perylene-d12	6.954	264	185746	4000.000	ng/ml	-0.02
Standard Area 1 = 202112			Recovery = 91.90%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.379	112	29364	3291.674	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 65.83%			
4) Phenol-d6	1.795	99	30636	2968.585	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 59.37%			
8) Nitrobenzene-d5	2.251	82	16319	2034.578	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 81.38%			
14) 2-Fluorobiphenyl	3.241	172	41187	1586.955	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 63.48%			
22) 2,4,6-Tribromophenol	4.061	330	14607	3735.784	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 74.72%			
31) 4-Terphenyl-d14	5.362	244	52619	1745.552	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 69.82%			
Target Compounds						Qvalue
7) Hexachloroethane	2.222	117	12413	2941.605	ng/ml	97
10) Naphthalene	2.643	128	105118	3090.039	ng/ml#	100
11) Hexachlorobutadiene	2.722	225	16387	2671.881	ng/ml	100
12) 2-Methylnaphthalene	3.026	142	69657	3189.796	ng/ml	100
15) 2-Chloronaphthalene	3.301	162	69134	3092.633	ng/ml	89
17) Acenaphthylene	3.530	152	109537	3328.851	ng/ml	99
19) Acenaphthene	3.630	153	77169	3147.445	ng/ml	97
21) Fluorene	3.921	166	84174	3255.122	ng/ml	100
25) Hexachlorobenzene	4.237	284	28321	3113.727	ng/ml	99
26) Pentachlorophenol	4.353	266	6592	1673.623	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : 59056-3.D
Acq On : 06 Dec 2023 01:27 pm
Operator : SV125:jjw
Sample : Wg1859056-3,32,,RV,ah
Misc : WG1860343,wg1859056,ical20477
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 14:24:58 2023
Quant Method : I:\8270sim\sv125\231206LVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:46:03 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231206LVI\ccv1206.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	4.462	178	133454	3392.653	ng/ml	100
28) Anthracene	4.491	178	133781	3633.460	ng/ml	100
29) Fluoranthene	5.136	202	162211	3750.100	ng/ml	95
30) Pyrene	5.261	202	170690	3766.493	ng/ml	99
33) Benzo[a]anthracene	5.947	228	178962	3751.490	ng/ml	100
35) Chrysene	5.966	228	156880	3223.849	ng/ml	98
38) Benzo[b]fluoranthene	6.649	252	199536	3986.312	ng/ml	100
39) Benzo[k]fluoranthene	6.668	252	175664	3537.222	ng/ml	100
40) Benzo[a]pyrene	6.904	252	161204	3673.899	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	7.976	276	204580	4479.337	ng/ml#	92
42) Dibenzo[a,h]anthracene	8.011	278	185535M6	4199.371	ng/ml	
43) Benzo[g,h,i]perylene	8.265	276	190060	3847.741	ng/ml	92

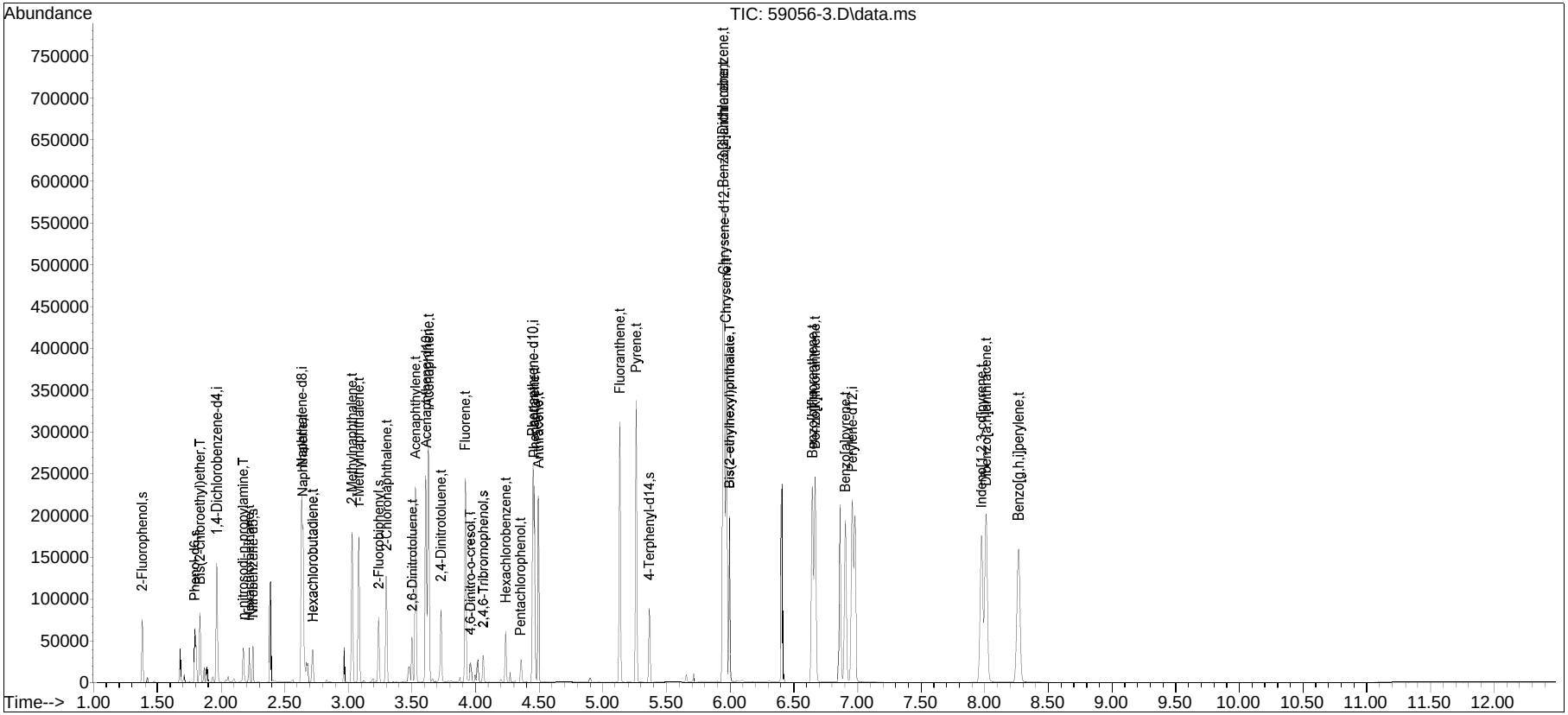
(#) = qualifier out of range (m) = manual integration (+) = signals summed

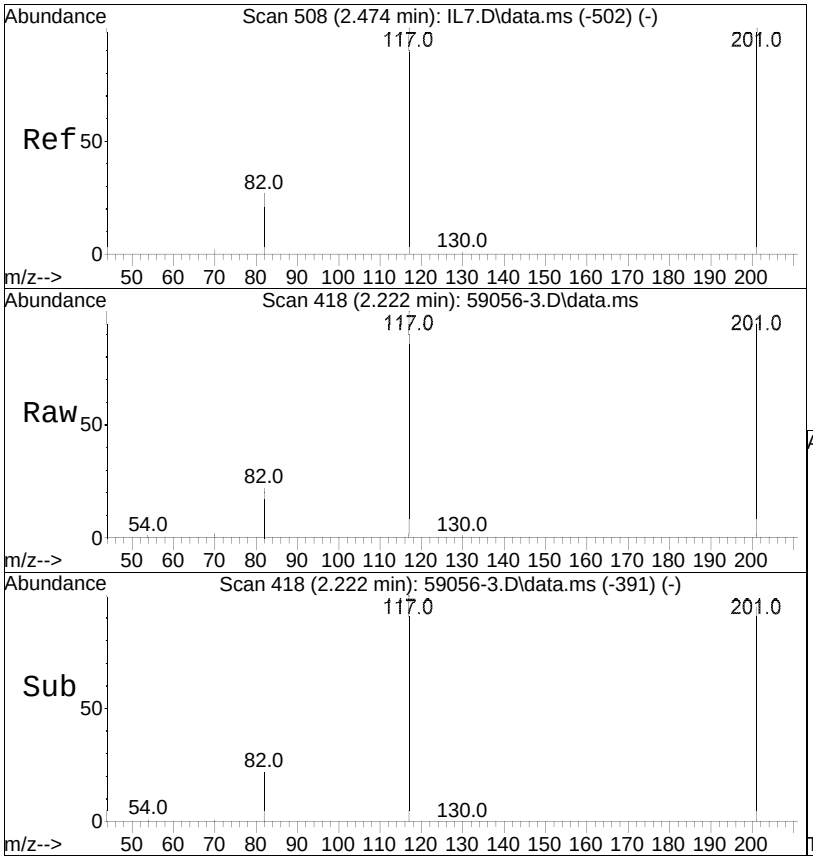
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231206LVI\
Data File : 59056-3.D
Acq On : 06 Dec 2023 01:27 pm
Operator : SV125:jjw
Sample : Wg1859056-3,32,,RV,ah
Misc : WG1860343,wg1859056,ical20477
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 14:24:58 2023
Quant Method : I:\8270sim\sv125\231206LVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 06 07:46:03 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listed\ccv1206.D•

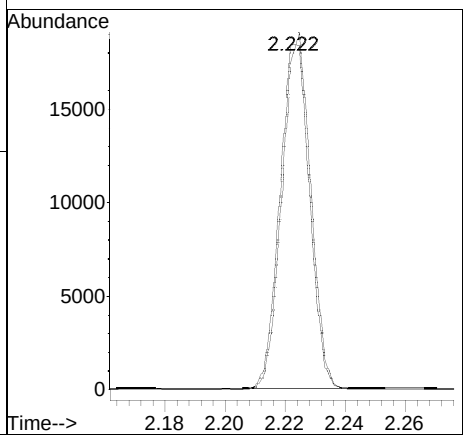


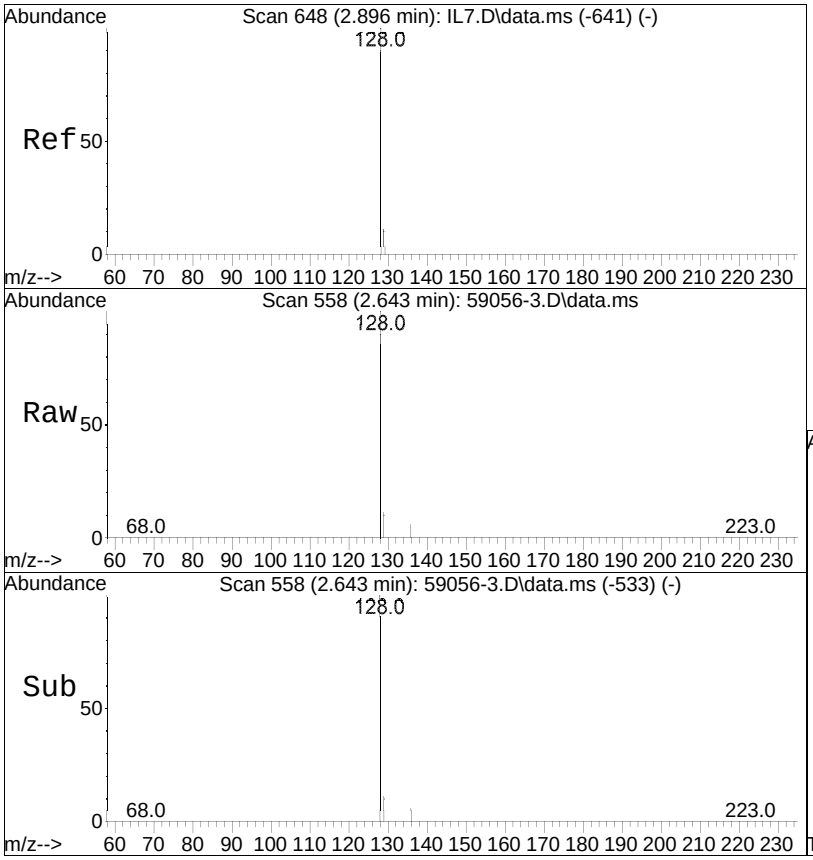


#7
Hexachloroethane
Concen: 2941.61 ng/ml
RT: 2.222 min Scan# 418
Delta R.T. -0.003 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:117 Resp: 12413

Ion	Ratio	Lower	Upper
117	100		
201	99.7	81.9	122.9

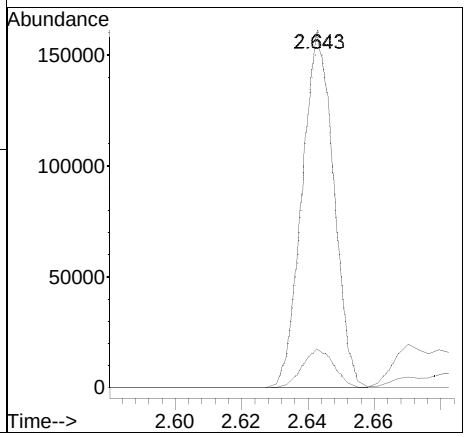


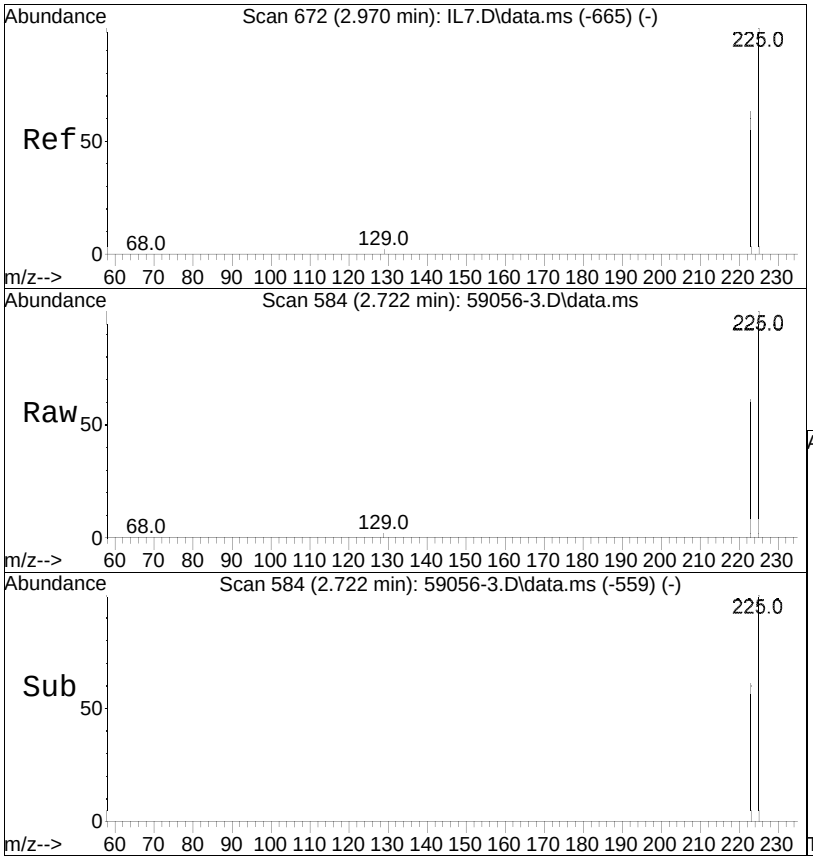


#10
Naphthalene
Concen: 3090.04 ng/ml
RT: 2.643 min Scan# 558
Delta R.T. -0.003 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:128 Resp: 105118

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	0.0	0.0	0.0

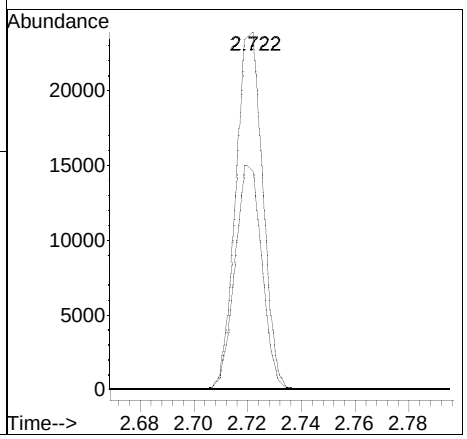


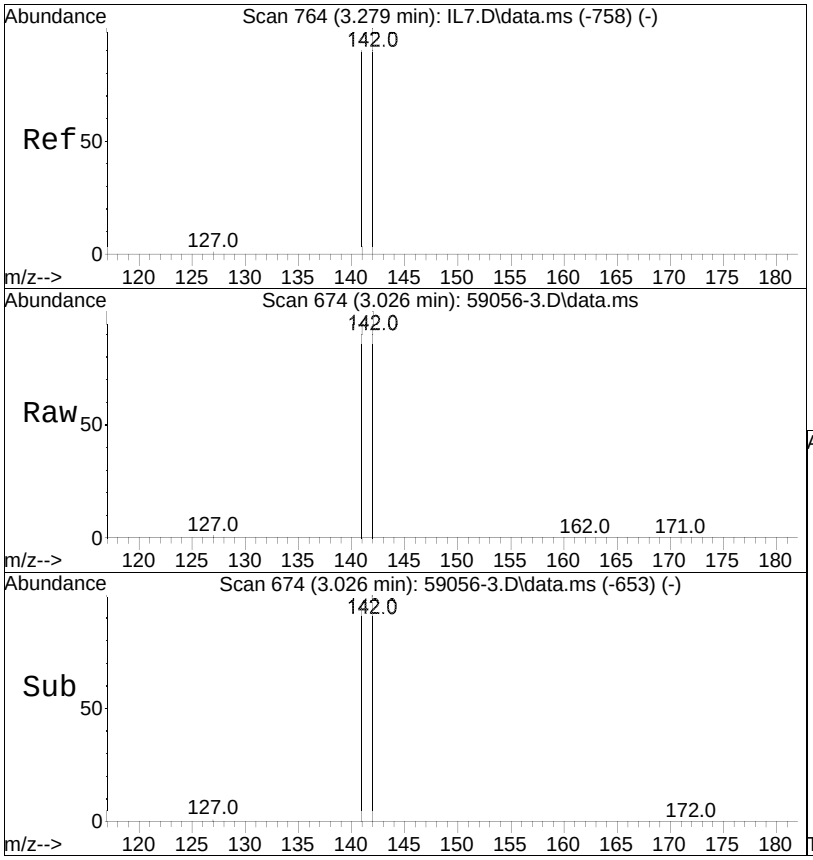


#11
Hexachlorobutadiene
Concen: 2671.88 ng/ml
RT: 2.722 min Scan# 584
Delta R.T. -0.003 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:225 Resp: 16387

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.2

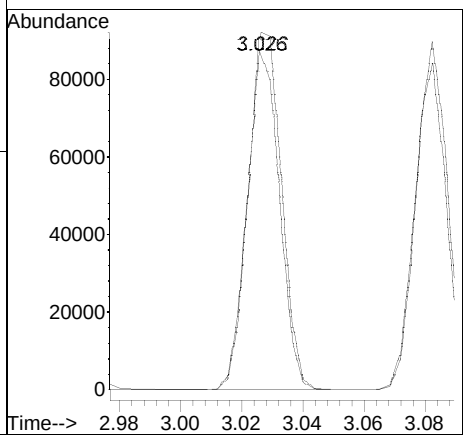


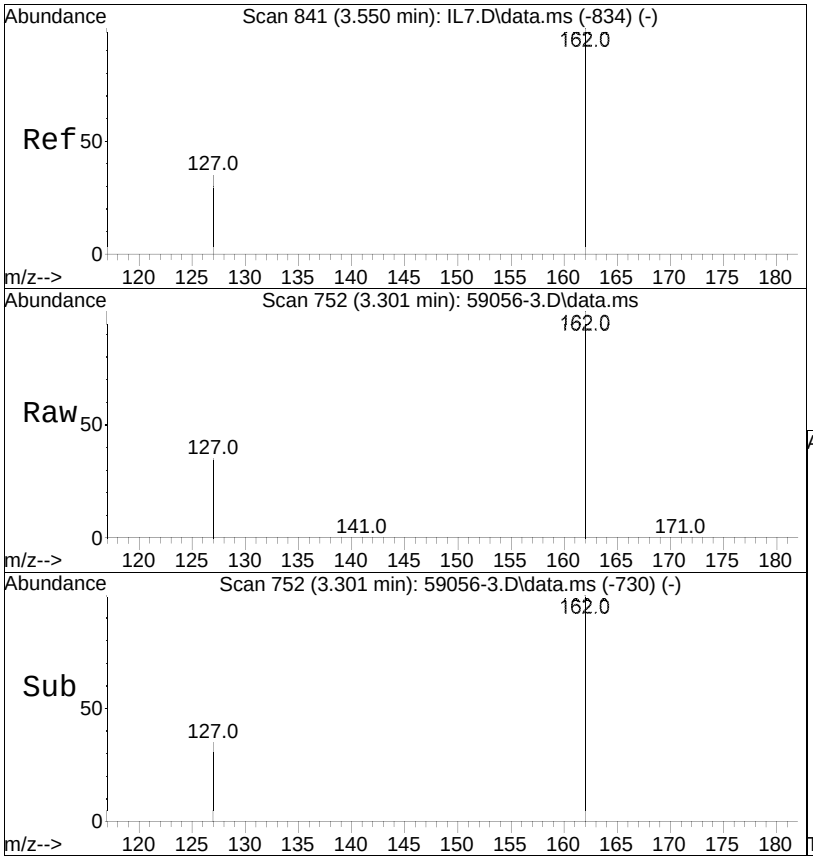


#12
2-Methylnaphthalene
Concen: 3189.80 ng/ml
RT: 3.026 min Scan# 674
Delta R.T. -0.007 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:142 Resp: 69657

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.6	110.4

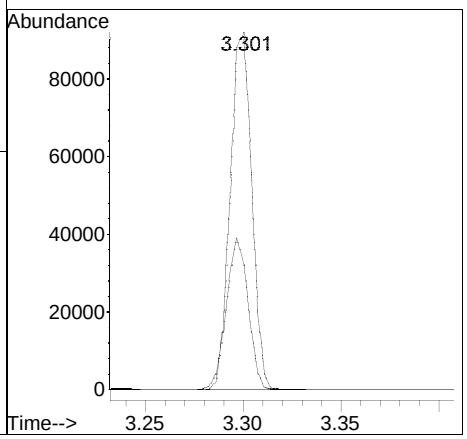


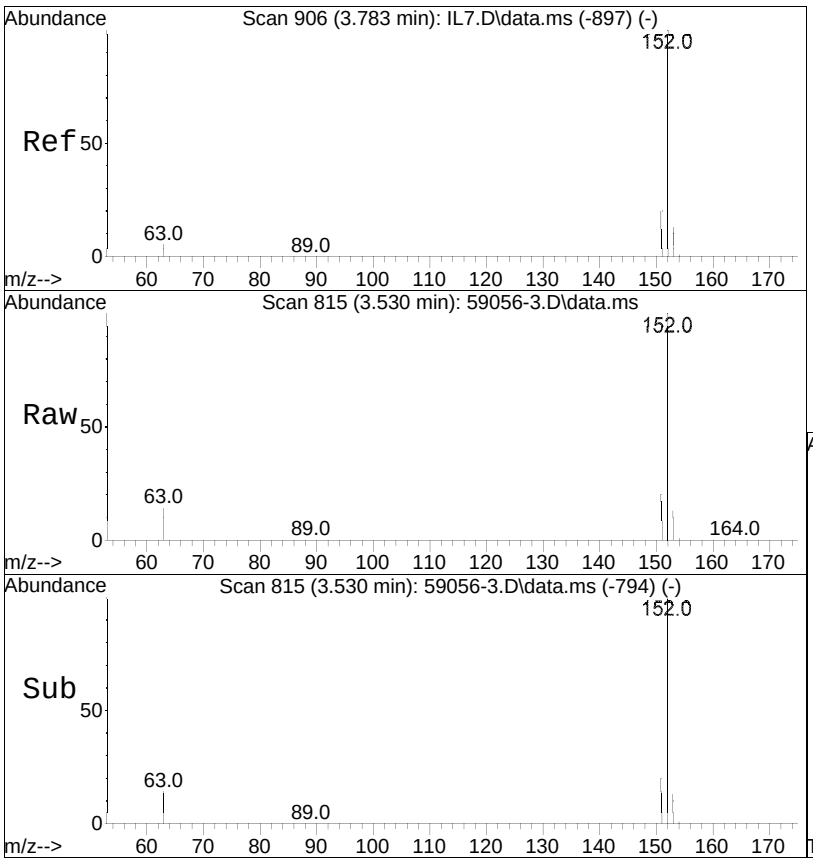


#15
2-Chloronaphthalene
Concen: 3092.63 ng/ml
RT: 3.301 min Scan# 752
Delta R.T. -0.003 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:162 Resp: 69134

Ion	Ratio	Lower	Upper
162	100		
127	42.9	29.1	43.7

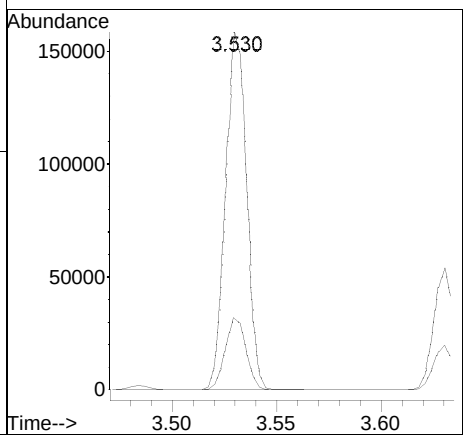


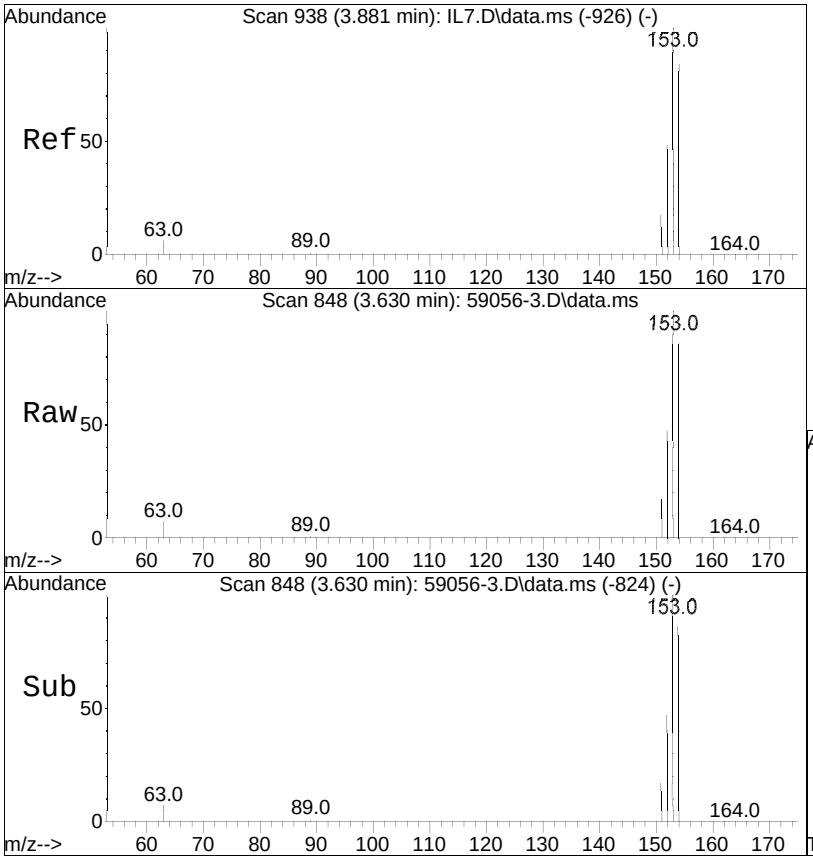


#17
Acenaphthylene
Concen: 3328.85 ng/ml
RT: 3.530 min Scan# 815
Delta R.T. -0.006 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:152 Resp: 109537

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.8

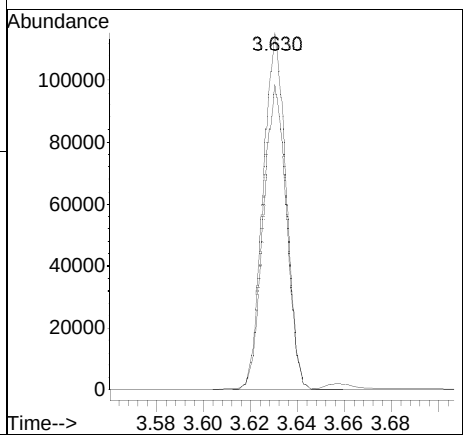


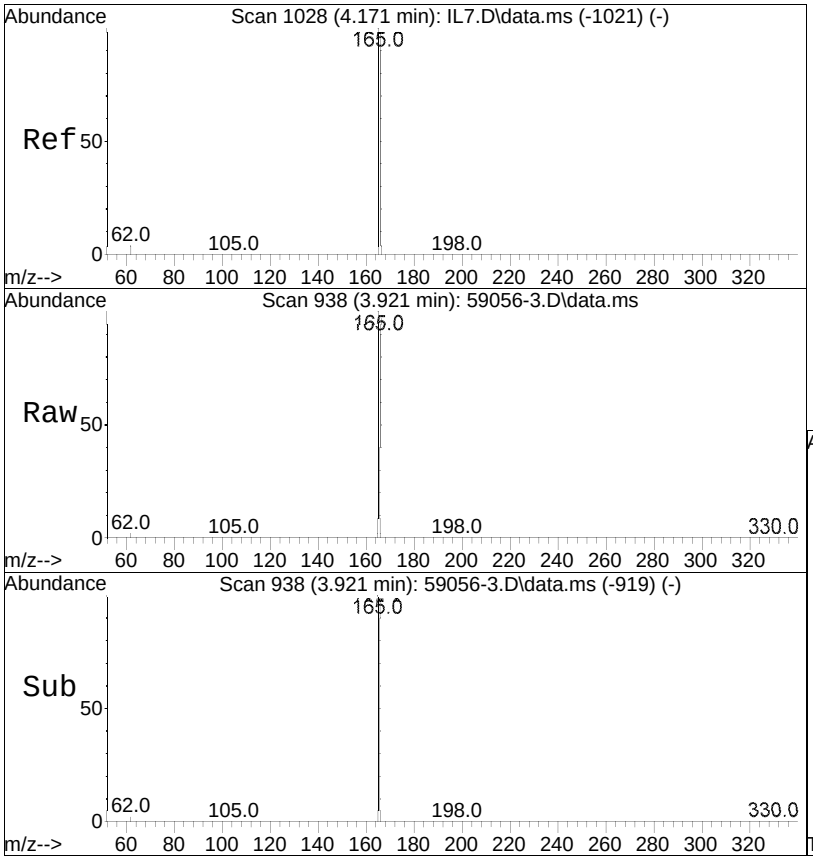


#19
Acenaphthene
Concen: 3147.44 ng/ml
RT: 3.630 min Scan# 848
Delta R.T. -0.006 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:153 Resp: 77169

Ion	Ratio	Lower	Upper
153	100		
154	85.8	70.8	106.2

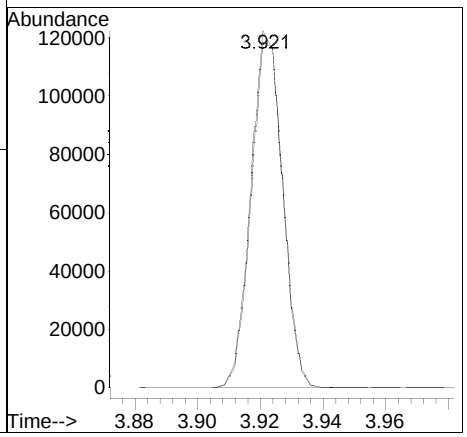


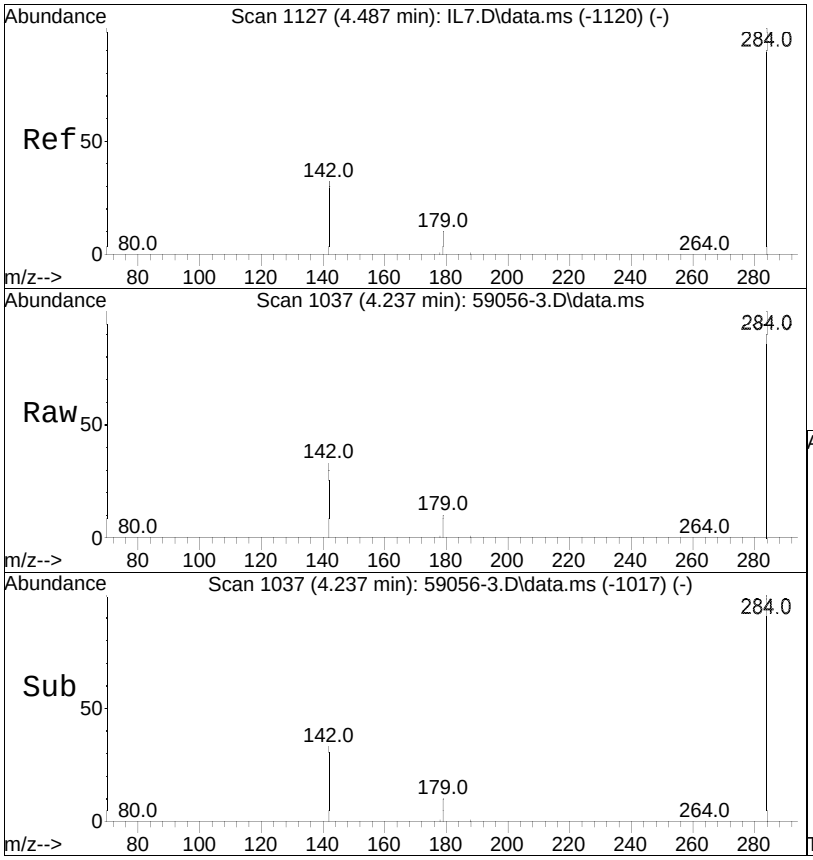


#21
Fluorene
Concen: 3255.12 ng/ml
RT: 3.921 min Scan# 938
Delta R.T. -0.006 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:166 Resp: 84174

Ion	Ratio	Lower	Upper
166	100		
165	101.5	81.0	121.4

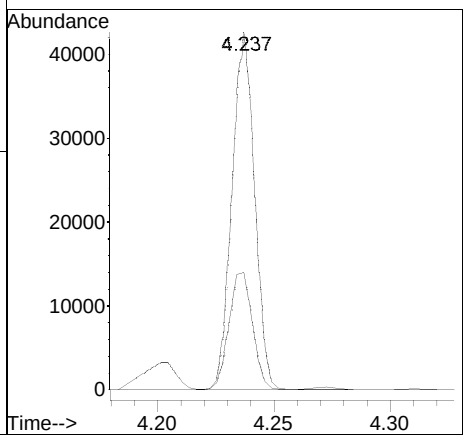


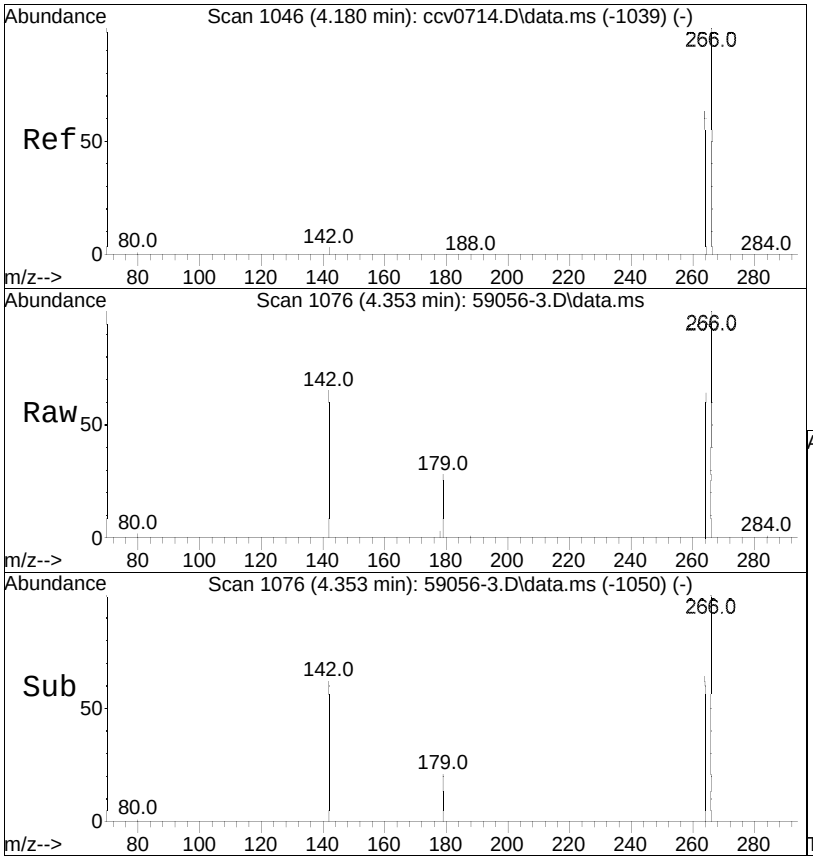


#25
Hexachlorobenzene
Concen: 3113.73 ng/ml
RT: 4.237 min Scan# 1037
Delta R.T. -0.006 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:284 Resp: 28321

Ion	Ratio	Lower	Upper
284	100		
142	34.3	27.7	41.5

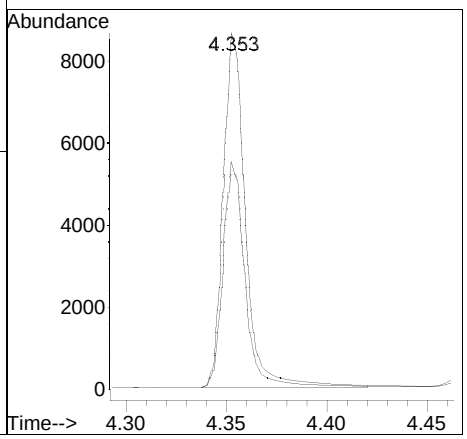


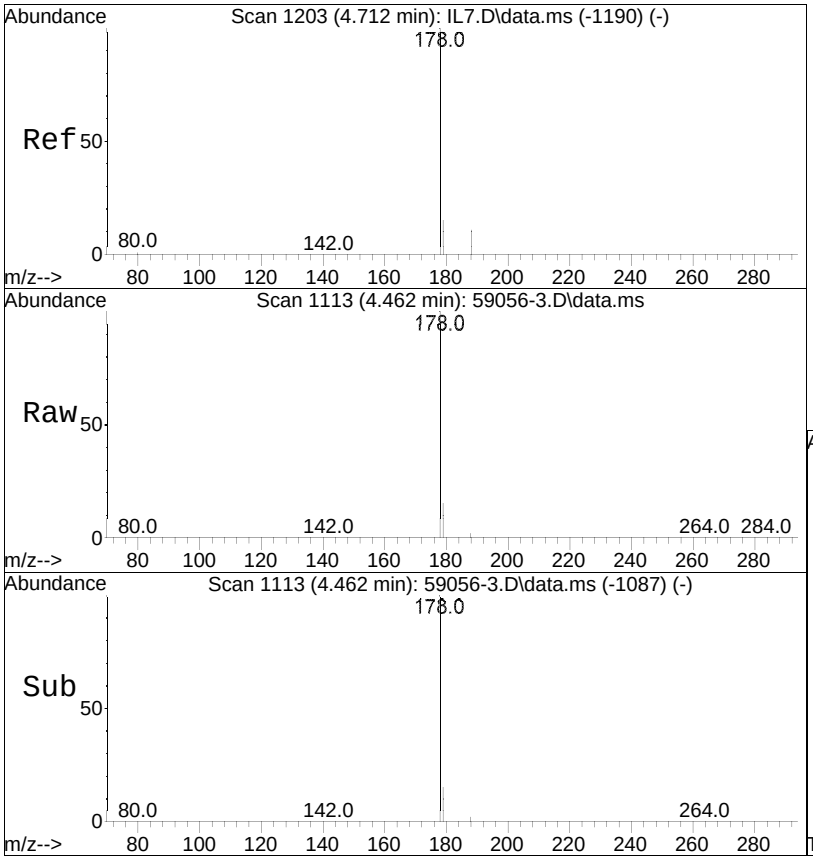


#26
Pentachlorophenol
Concen: 1673.62 ng/ml
RT: 4.353 min Scan# 1076
Delta R.T. -0.003 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:266 Resp: 6592

Ion	Ratio	Lower	Upper
266	100		
264	63.4	50.9	76.3

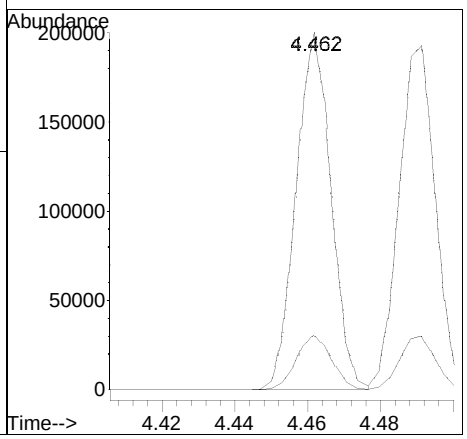


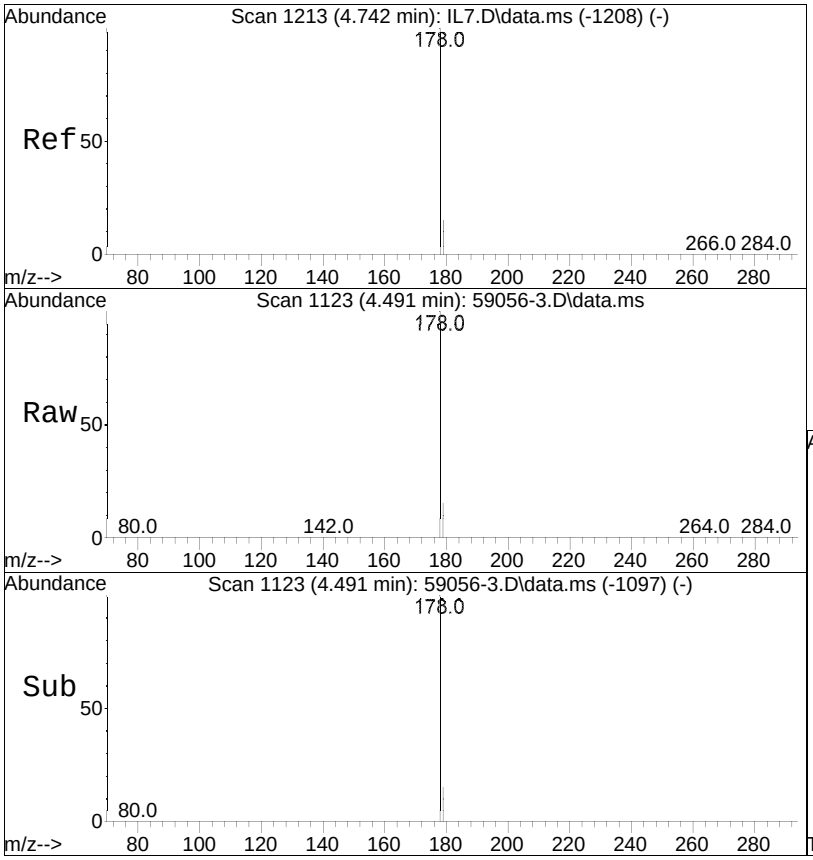


#27
Phenanthrene
Concen: 3392.65 ng/ml
RT: 4.462 min Scan# 1113
Delta R.T. -0.003 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:178 Resp: 133454

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

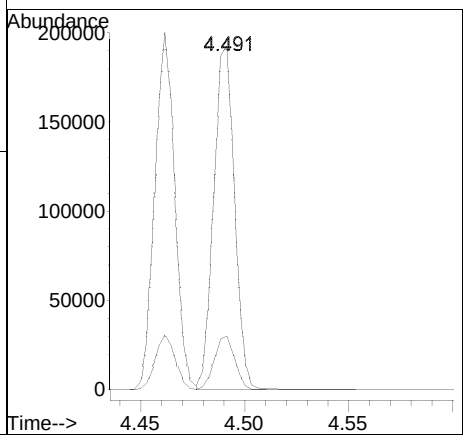


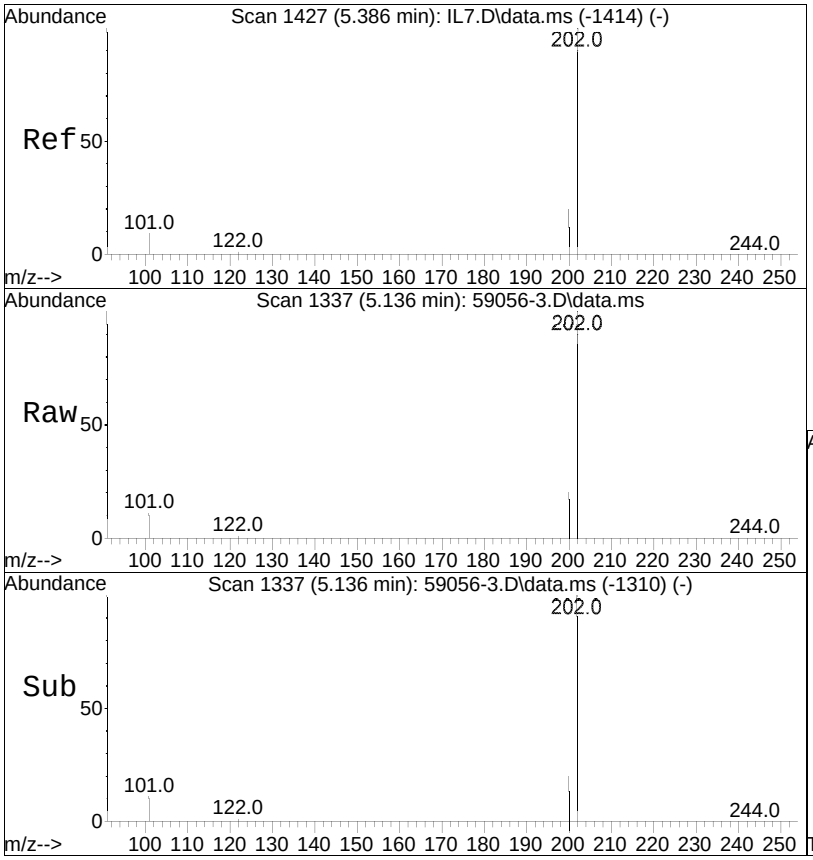


#28
Anthracene
Concen: 3633.46 ng/ml
RT: 4.491 min Scan# 1123
Delta R.T. -0.003 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:178 Resp: 133781

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4

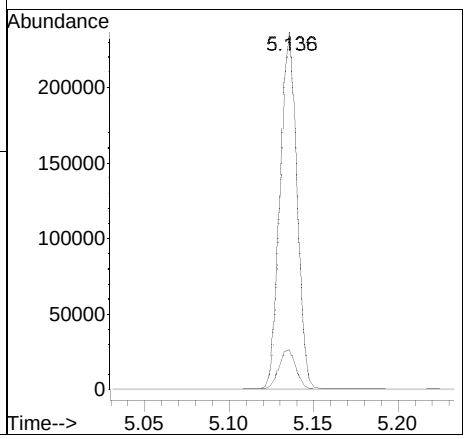


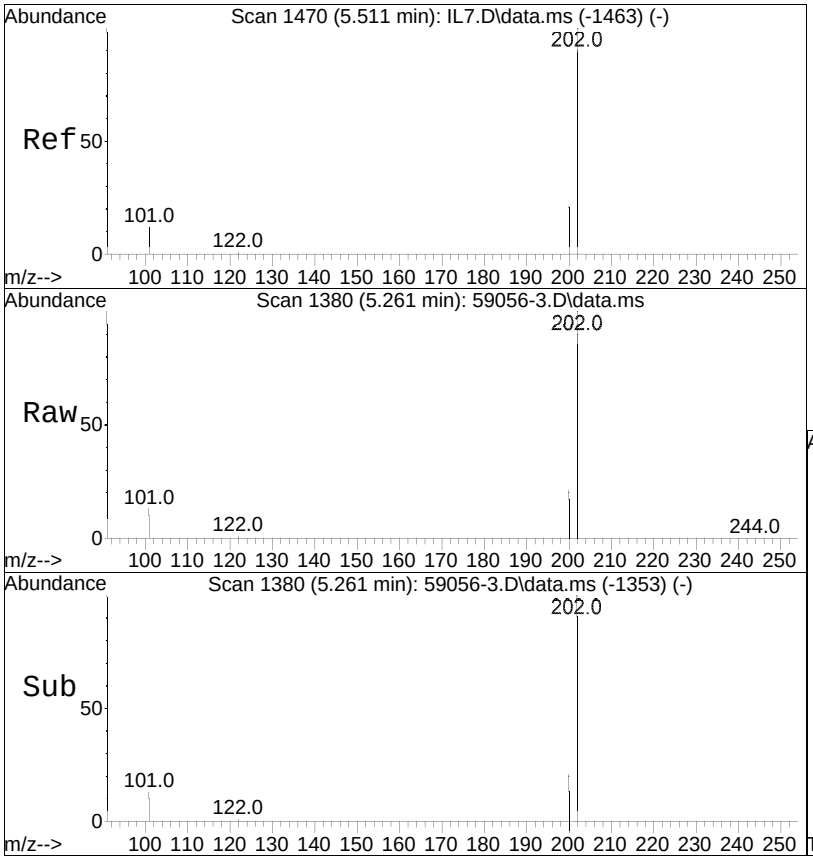


#29
Fluoranthene
Concen: 3750.10 ng/ml
RT: 5.136 min Scan# 1337
Delta R.T. -0.003 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:202 Resp: 162211

Ion	Ratio	Lower	Upper
202	100		
101	11.5	7.8	11.8

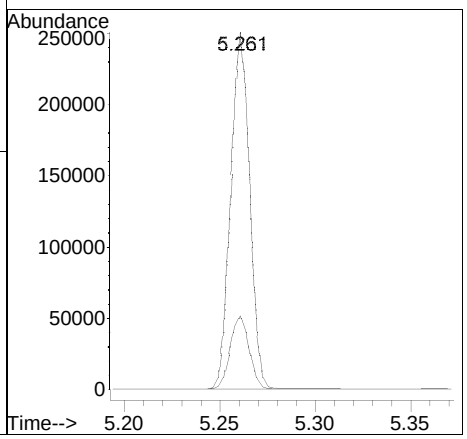


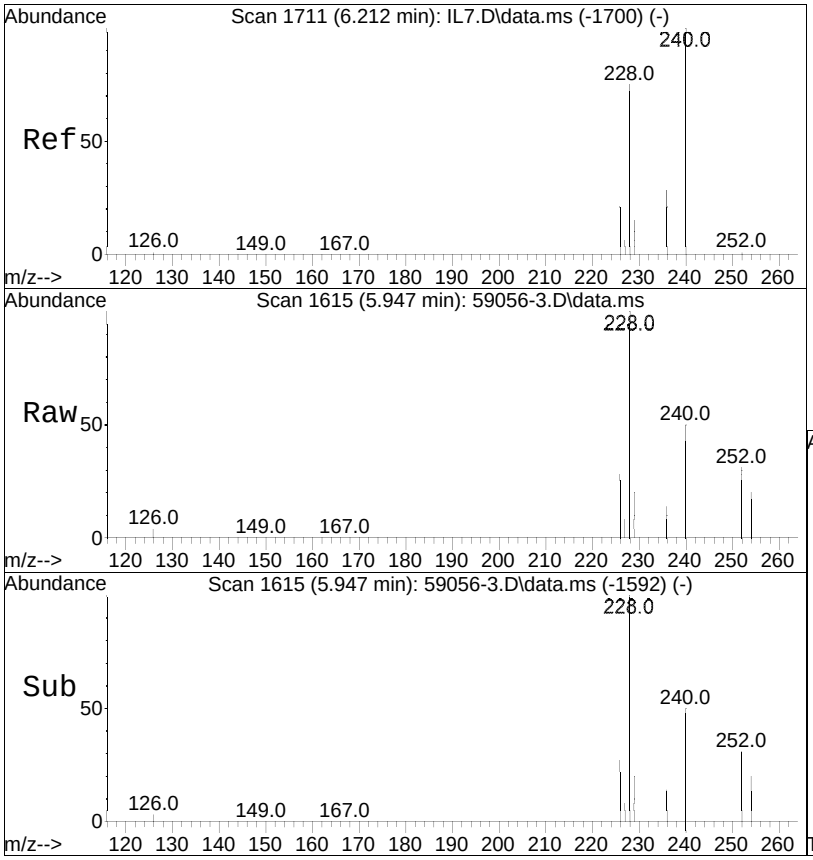


#30
Pyrene
Concen: 3766.49 ng/ml
RT: 5.261 min Scan# 1380
Delta R.T. -0.003 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:202 Resp: 170690

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4

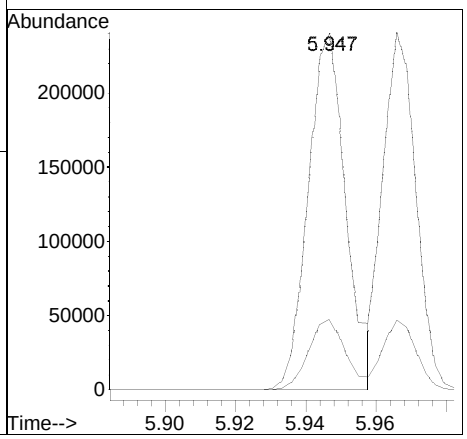


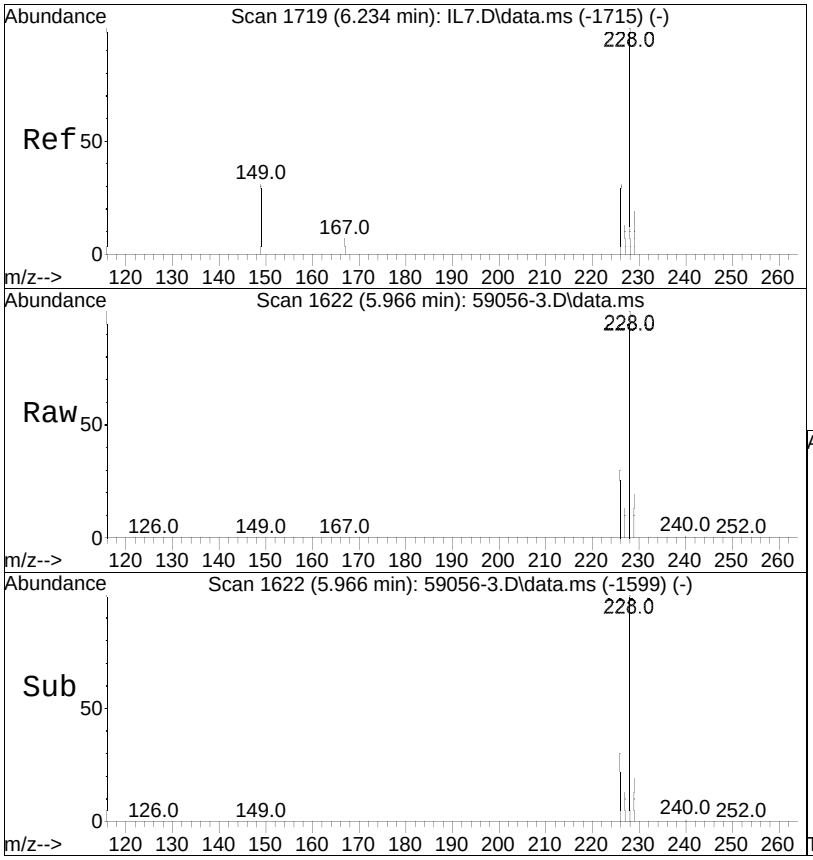


#33
Benzo[a]anthracene
Concen: 3751.49 ng/ml
RT: 5.947 min Scan# 1615
Delta R.T. -0.016 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:228 Resp: 178962

Ion	Ratio	Lower	Upper
228	100		
229	19.6	15.6	23.4

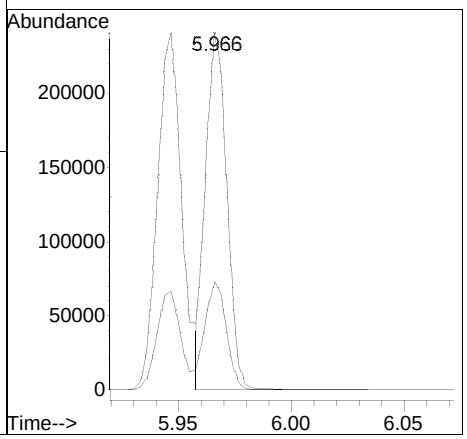


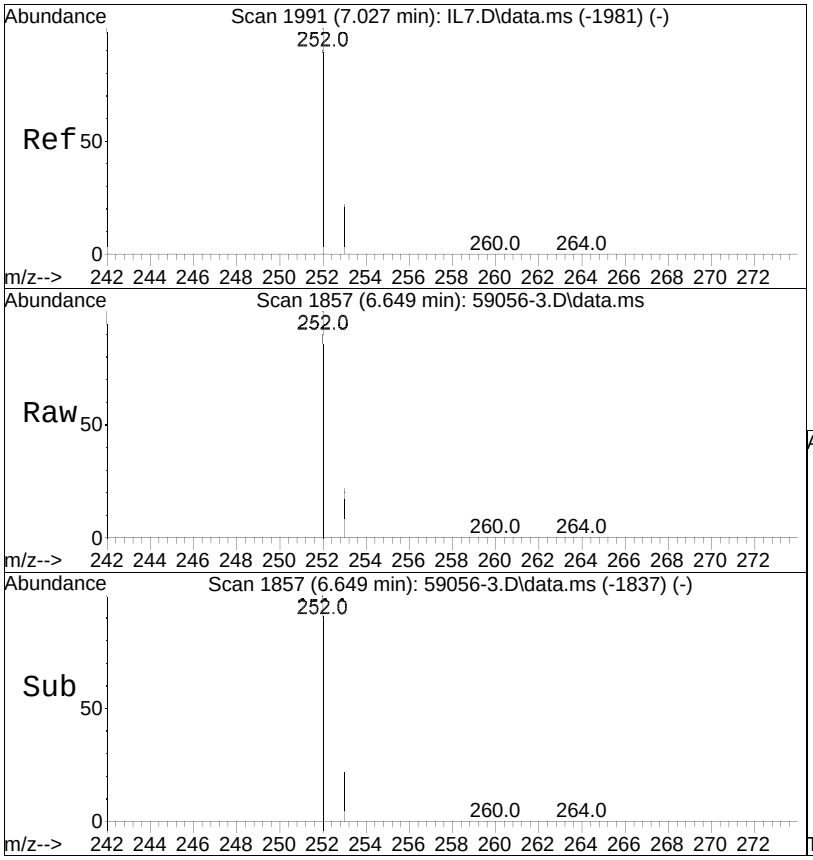


#35
Chrysene
Concen: 3223.85 ng/ml
RT: 5.966 min Scan# 1622
Delta R.T. -0.016 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:228 Resp: 156880

Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.2	36.2

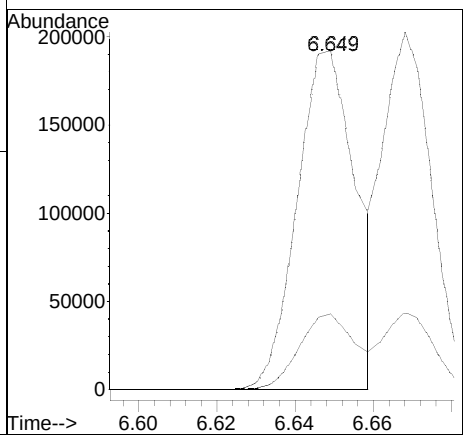


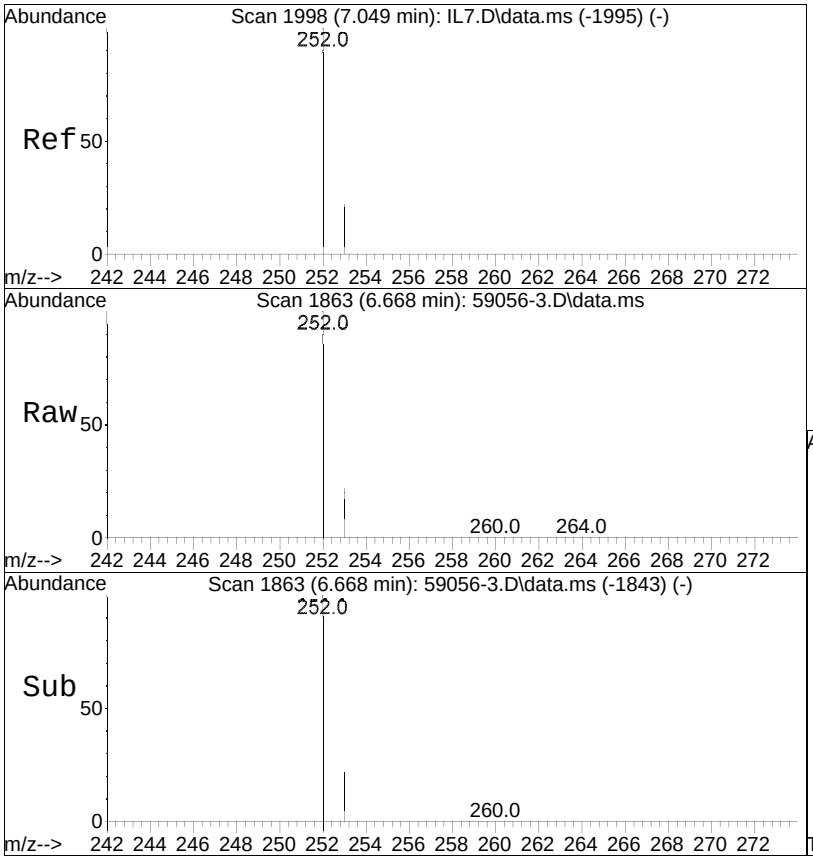


#38
Benzo[b]fluoranthene
Concen: 3986.31 ng/ml
RT: 6.649 min Scan# 1857
Delta R.T. -0.019 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:252 Resp: 199536

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8

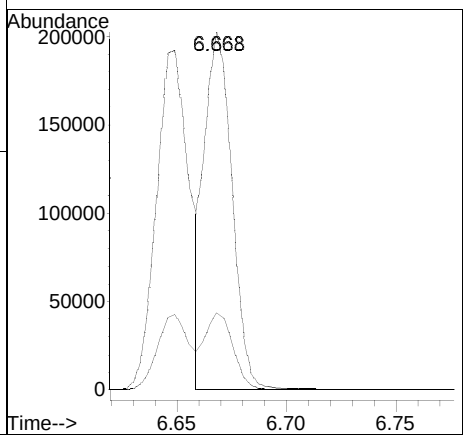


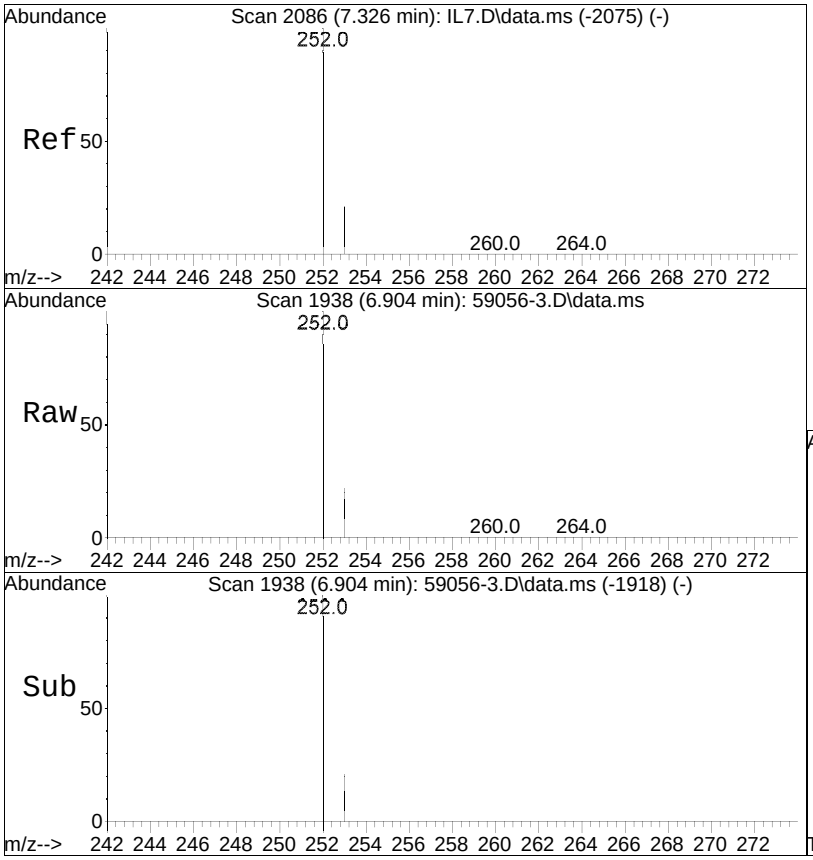


#39
Benzo[k]fluoranthene
Concen: 3537.22 ng/ml
RT: 6.668 min Scan# 1863
Delta R.T. -0.019 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:252 Resp: 175664

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3

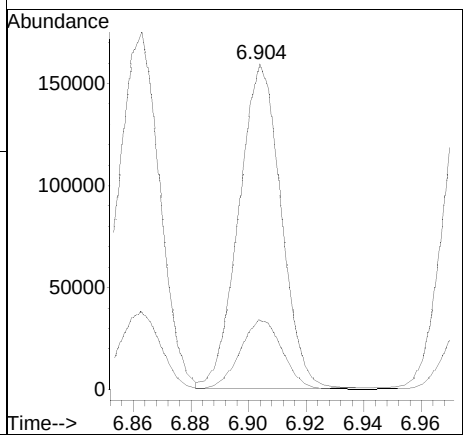


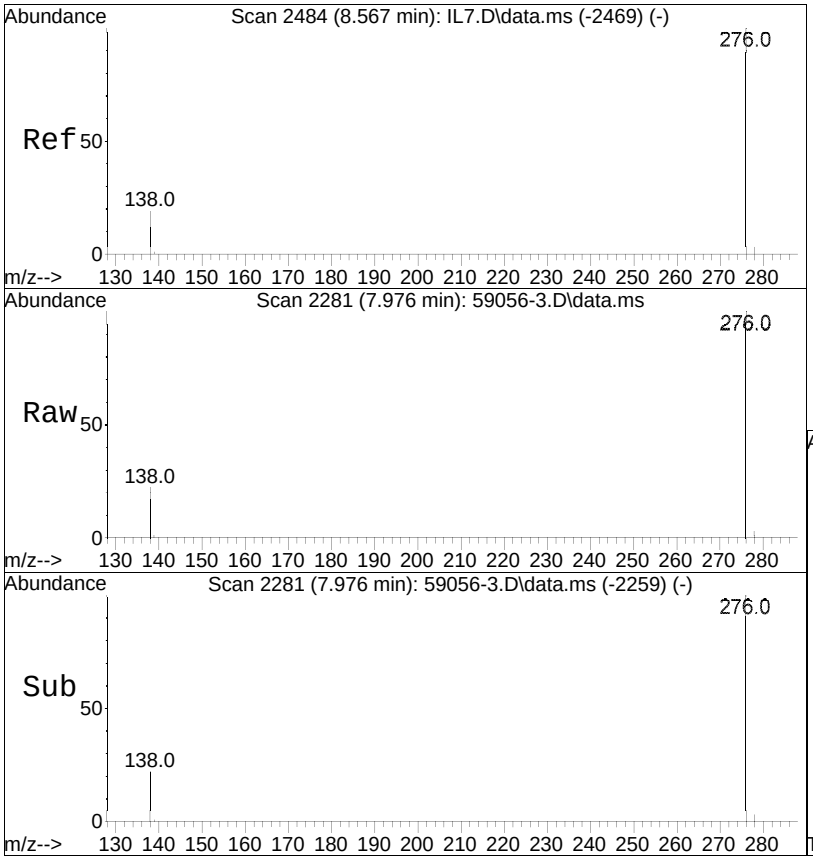


#40
Benzo[a]pyrene
Concen: 3673.90 ng/ml
RT: 6.904 min Scan# 1938
Delta R.T. -0.019 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:252 Resp: 161204

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.2	25.8

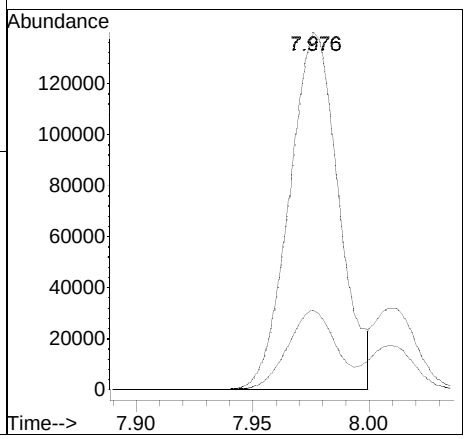


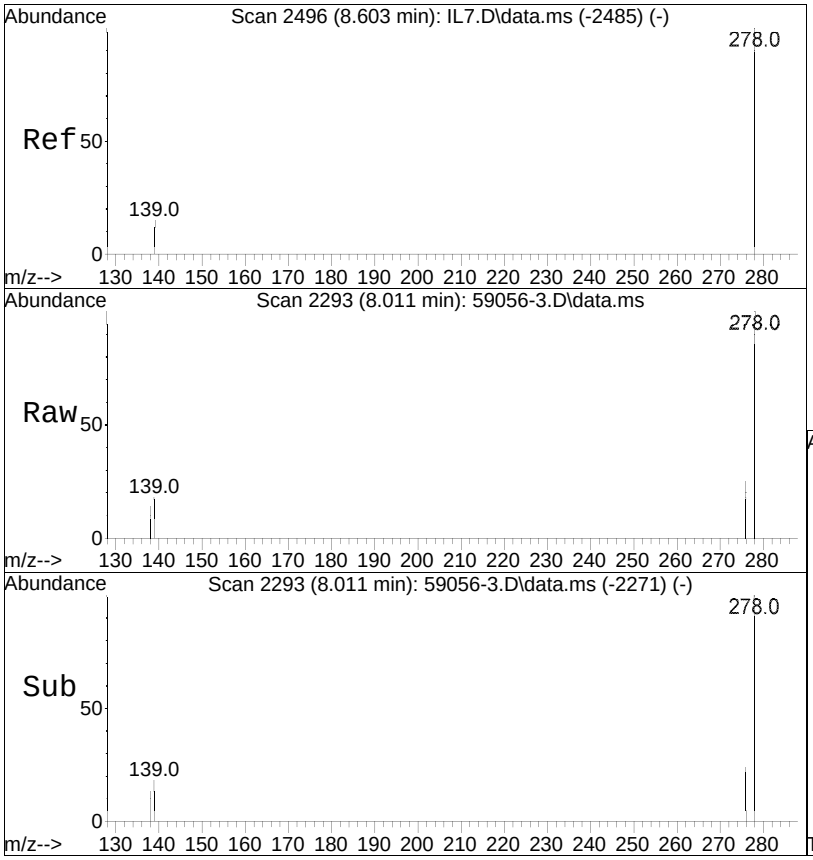


#41
Indeno[1,2,3-cd]pyrene
Concen: 4479.34 ng/ml
RT: 7.976 min Scan# 2281
Delta R.T. -0.015 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:276 Resp: 204580

Ion	Ratio	Lower	Upper
276	100		
138	21.8	14.5	21.7#

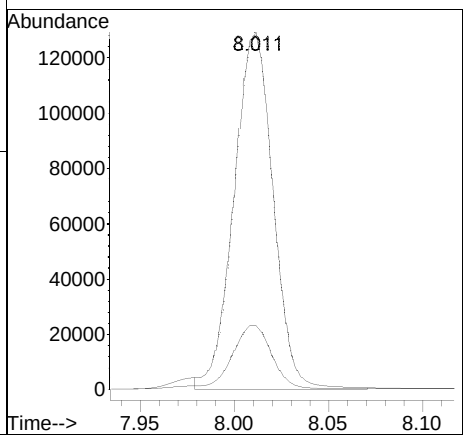


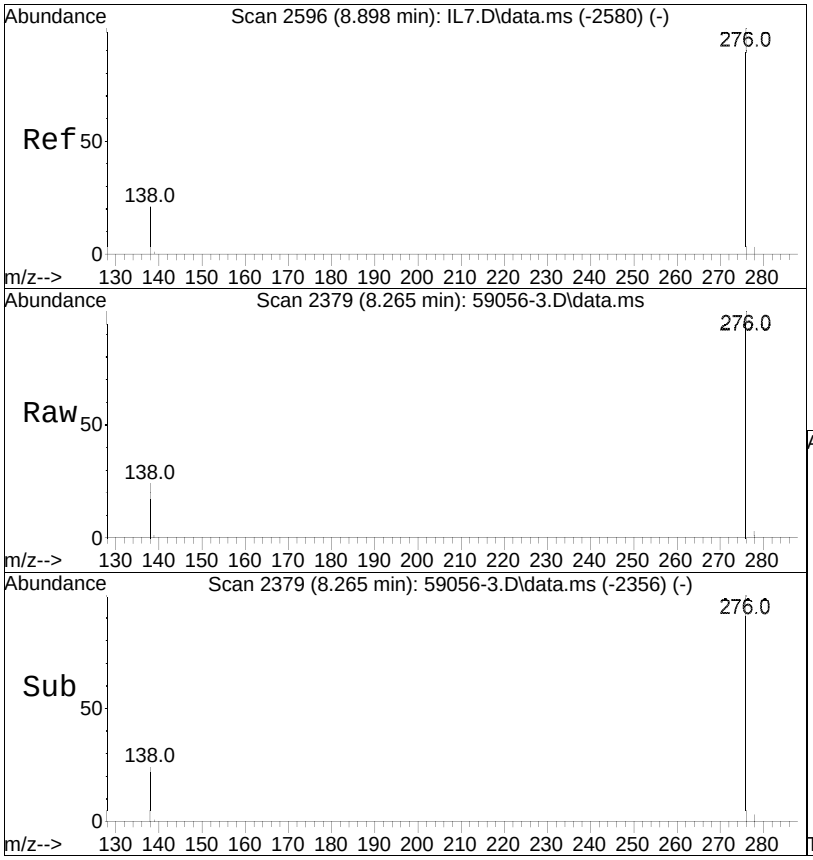


#42
Dibenzo[a,h]anthracene
Concen: 4199.37 ng/ml M6
RT: 8.011 min Scan# 2293
Delta R.T. -0.015 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:278 Resp: 185535

Ion	Ratio	Lower	Upper
278	100		
139	18.6	13.0	19.4

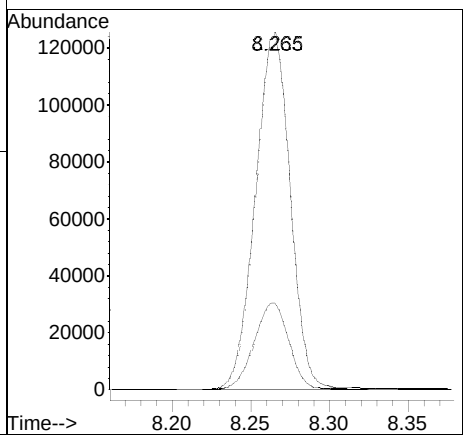




#43
Benzo[g,h,i]perylene
Concen: 3847.74 ng/ml
RT: 8.265 min Scan# 2379
Delta R.T. -0.012 min
Lab File: 59056-3.D
Acq: 06 Dec 2023 01:27 pm

Tgt Ion:276 Resp: 190060

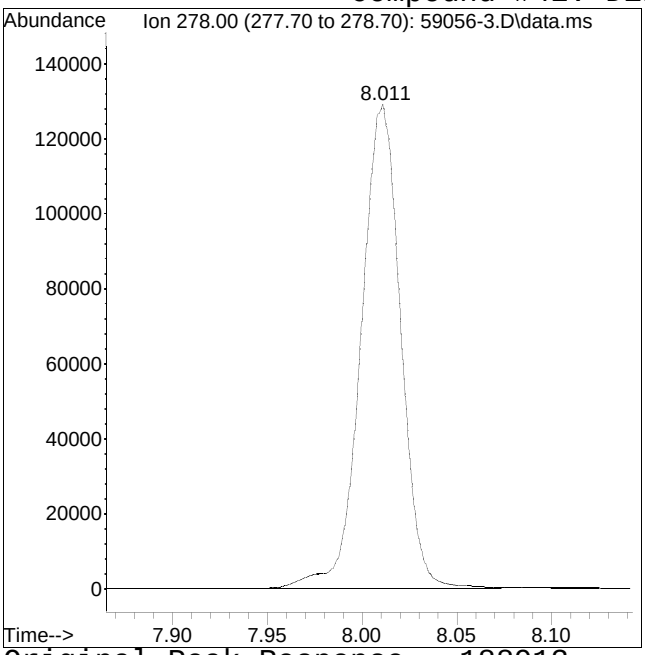
Ion	Ratio	Lower	Upper
276	100		
138	24.3	16.5	24.7



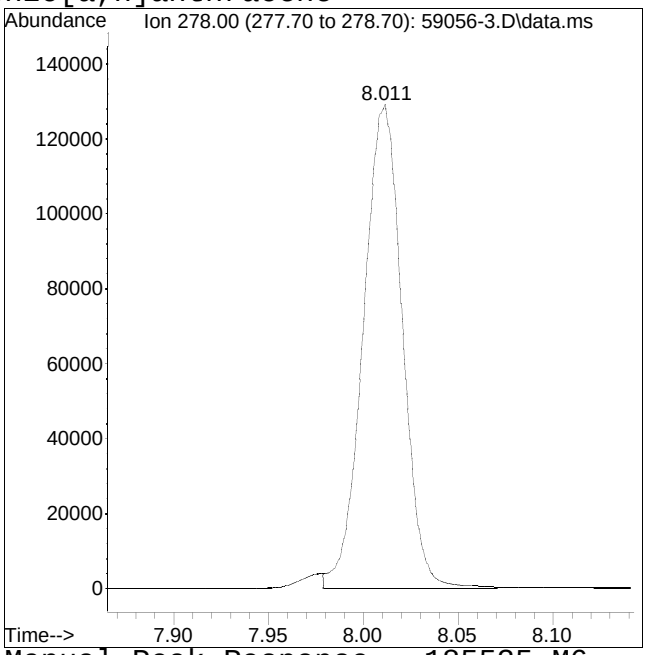
Manual Integration Report

Data Path : I:\8270SIM\SV125\231206LVIQMethod : SIM-LVI_231026_sv125.M
Data File : 59056-3.D Operator : SV125:jjw
Date Inj'd : 12/6/2023 1:27 pm Instrument : SV125
Sample : Wg1859056-3,32,,RV,ah Quant Date : 12/6/2023 1:51 pm

Compound #42: Dibenzo[a,h]anthracene



Original Peak Response = 188913



Manual Peak Response = 185535 M6

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 859056-4.D
Acq On : 07 Dec 2023 08:09 pm
Operator : SV125:dv
Sample : WG1859056-4,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 07 20:31:57 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.187	152	44820	4000.000	ng/ml	0.00
Standard Area 1 = 35016			Recovery = 128.00%			
9) Naphthalene-d8	2.852	136	180062	4000.000	ng/ml	0.00
Standard Area 1 = 133973			Recovery = 134.40%			
18) Acenaphthene-d10	3.820	164	89326	4000.000	ng/ml	0.00
Standard Area 1 = 74318			Recovery = 120.19%			
23) Phenanthrene-d10	4.649	188	174608	4000.000	ng/ml	0.00
Standard Area 1 = 152800			Recovery = 114.27%			
32) Chrysene-d12	6.169	240	152183	4000.000	ng/ml	0.00
Standard Area 1 = 132050			Recovery = 115.25%			
37) Perylene-d12	7.310	264	196518	4000.000	ng/ml	0.00
Standard Area 1 = 149607			Recovery = 131.36%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.592	112	37196	3271.887	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 65.44%			
4) Phenol-d6	2.001	99	39294	2987.750	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 59.76%			
8) Nitrobenzene-d5	2.467	82	20718	2026.886	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 81.08%			
14) 2-Fluorobiphenyl	3.447	172	52428	1520.391	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 60.82%			
22) 2,4,6-Tribromophenol	4.260	330	15744	3418.647	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 68.37%			
31) 4-Terphenyl-d14	5.555	244	55490	1662.173	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 66.49%			
Target Compounds						Qvalue
7) Hexachloroethane	2.447	117	15660	2912.057	ng/ml	96
10) Naphthalene	2.861	128	136429	3018.432	ng/ml#	100
11) Hexachlorobutadiene	2.937	225	20865	2560.494	ng/ml	100
12) 2-Methylnaphthalene	3.240	142	89306	3077.986	ng/ml	100
15) 2-Chloronaphthalene	3.508	162	86828	2923.373	ng/ml	88
17) Acenaphthylene	3.740	152	134671	3080.316	ng/ml	99
19) Acenaphthene	3.838	153	95281	3287.098	ng/ml	96
21) Fluorene	4.125	166	102225	3343.778	ng/ml	100
25) Hexachlorobenzene	4.439	284	36408	3614.431	ng/ml	96
26) Pentachlorophenol	4.548	266	18978	3757.637	ng/ml	99

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 859056-4.D
Acq On : 07 Dec 2023 08:09 pm
Operator : SV125:dv
Sample : WG1859056-4,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 07 20:31:57 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	4.663	178	154300	3541.970	ng/ml	100
28) Anthracene	4.690	178	152862	3748.838	ng/ml	100
29) Fluoranthene	5.334	202	182755	3815.074	ng/ml	96
30) Pyrene	5.462	202	191767	3820.974	ng/ml	100
33) Benzo[a]anthracene	6.161	228	192617	4010.565	ng/ml	100
35) Chrysene	6.185	228	174120	3557.648	ng/ml	99
38) Benzo[b]fluoranthene	6.961	252	221720	4186.702	ng/ml	100
39) Benzo[k]fluoranthene	6.986	252	199656	3799.960	ng/ml	100
40) Benzo[a]pyrene	7.253	252	183310	3948.705	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.460	276	236317	4890.606	ng/ml#	87
42) Dibenzo[a,h]anthracene	8.492	278	214012	4578.399	ng/ml#	92
43) Benzo[g,h,i]perylene	8.782	276	222829	4263.870	ng/ml#	89

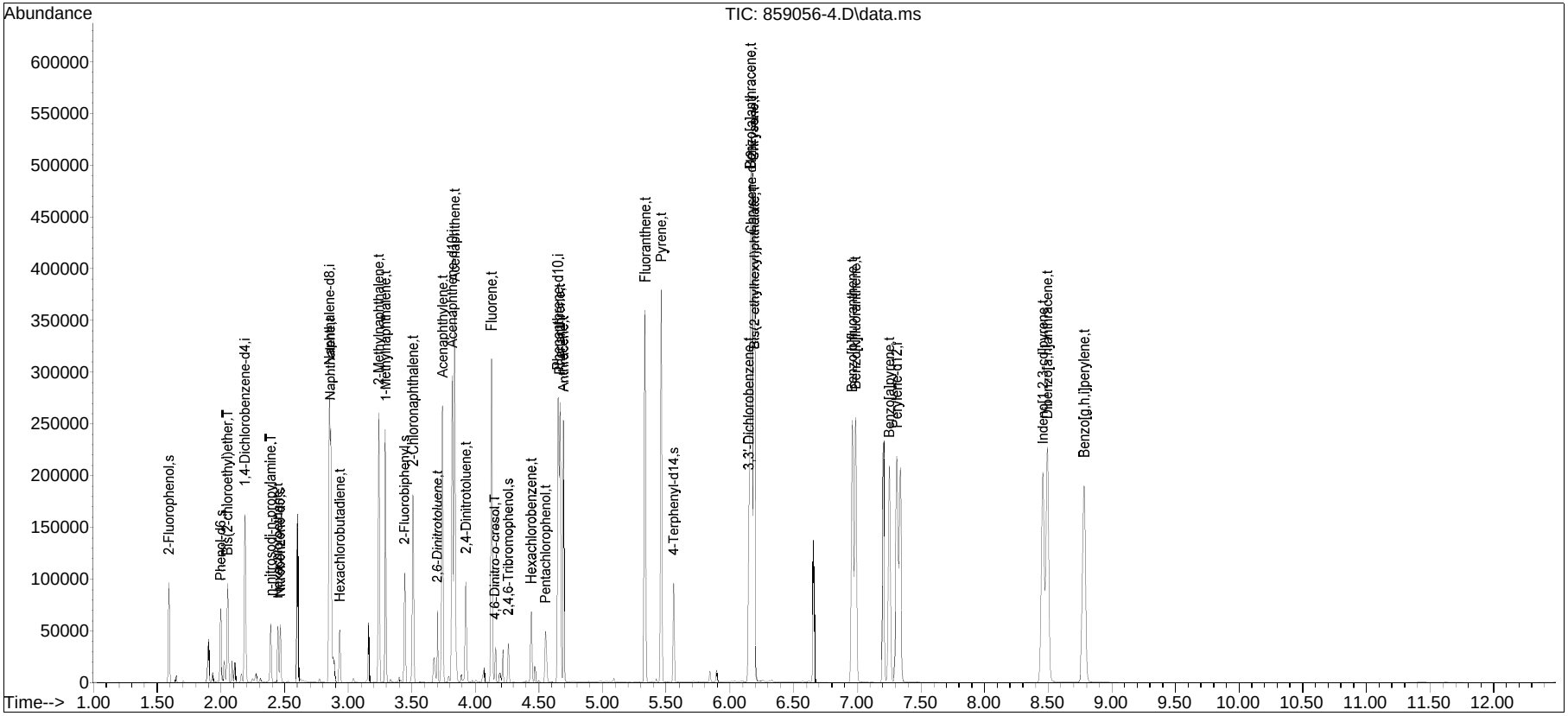
(#) = qualifier out of range (m) = manual integration (+) = signals summed

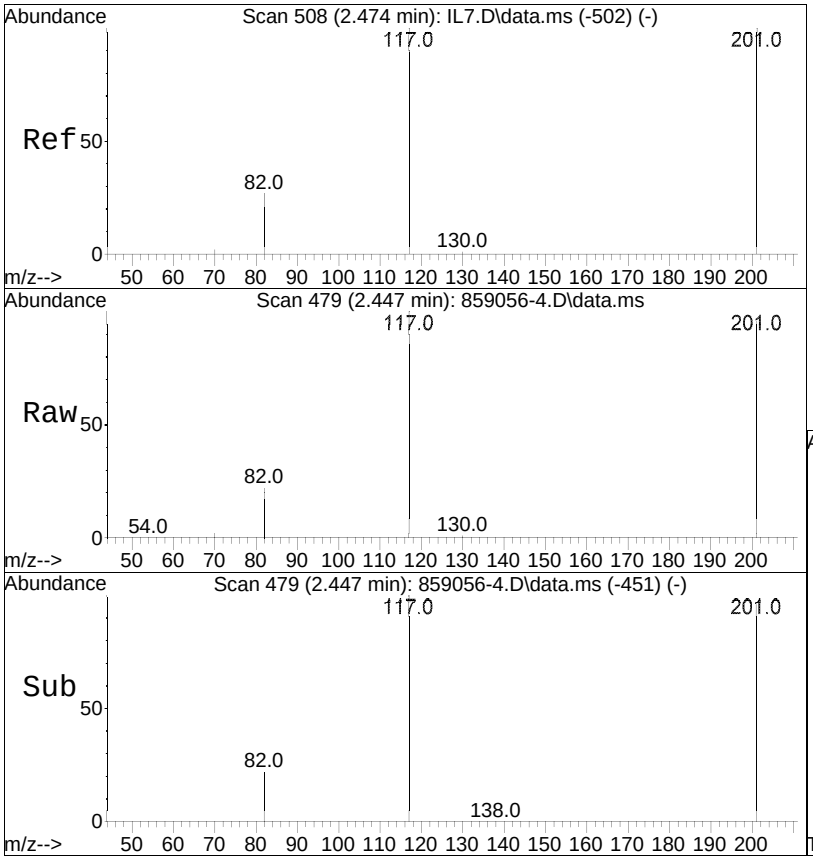
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 859056-4.D
Acq On : 07 Dec 2023 08:09 pm
Operator : SV125:dv
Sample : WG1859056-4,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 07 20:31:57 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedI\ccv1207b.D•

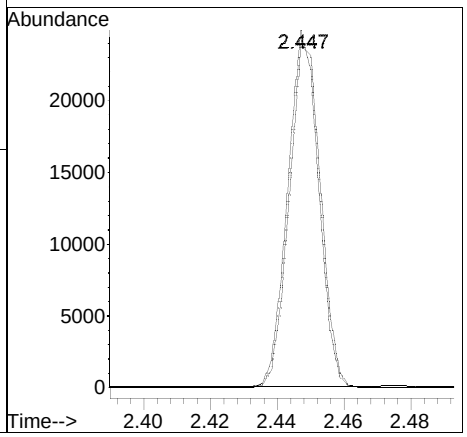


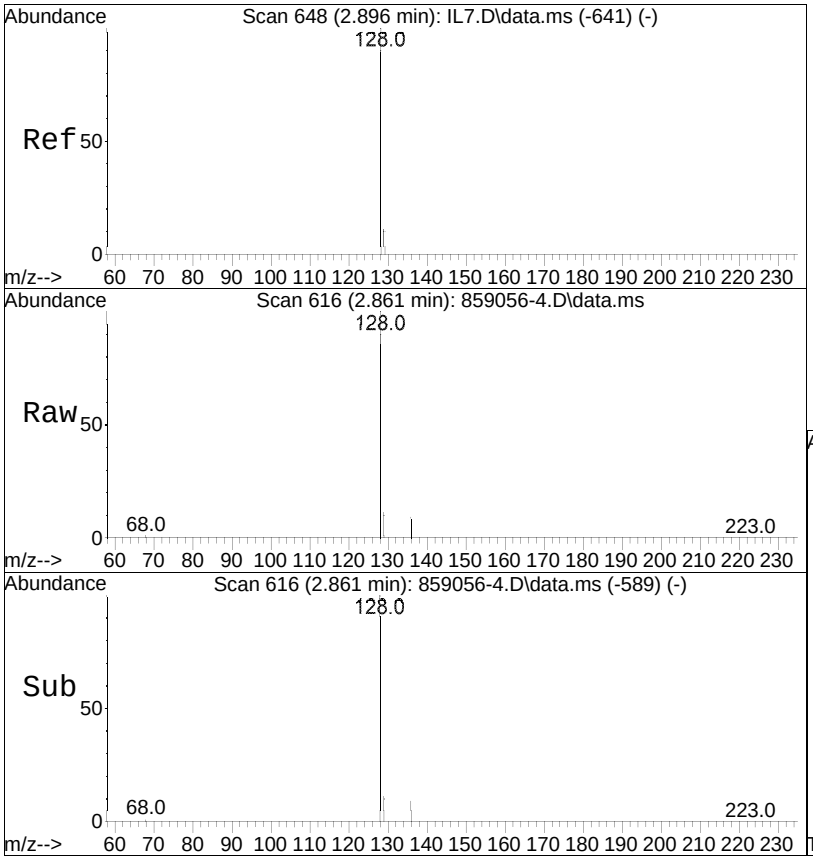


#7
Hexachloroethane
Concen: 2912.06 ng/ml
RT: 2.447 min Scan# 479
Delta R.T. 0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:117 Resp: 15660

Ion	Ratio	Lower	Upper
117	100		
201	98.8	81.9	122.9

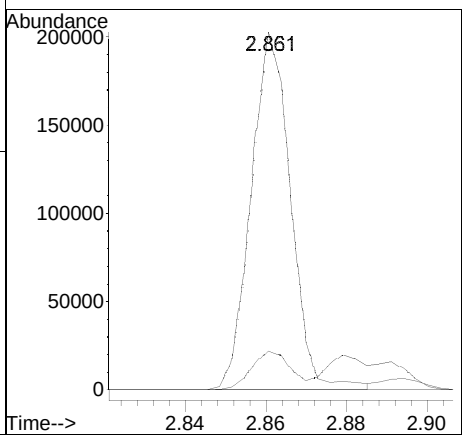


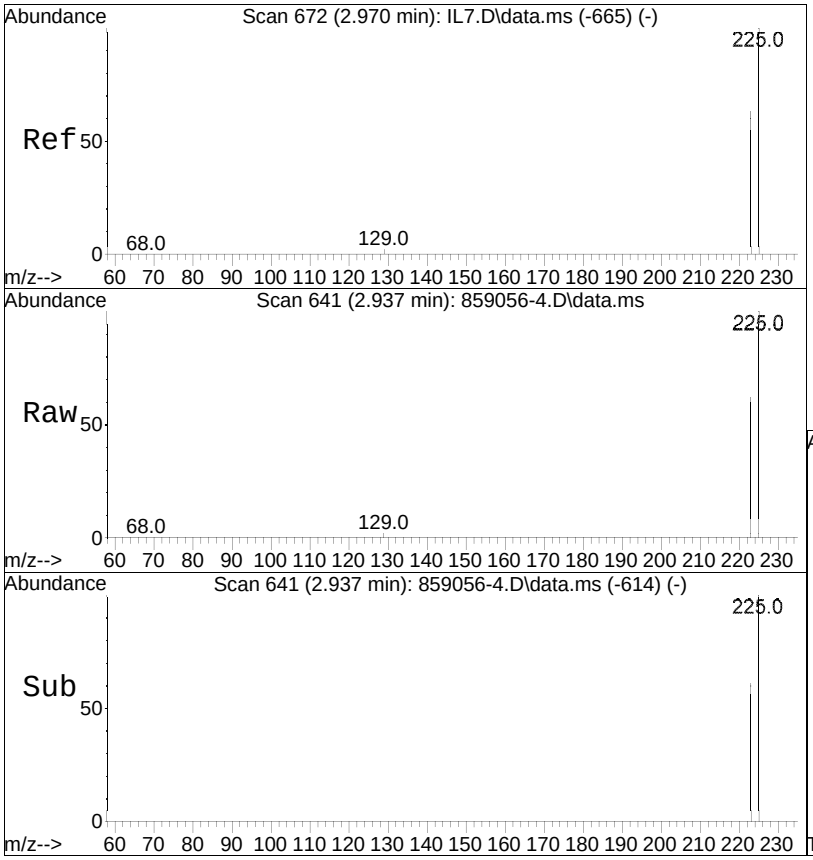


#10
Naphthalene
Concen: 3018.43 ng/ml
RT: 2.861 min Scan# 616
Delta R.T. 0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:128 Resp: 136429

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	0.0	0.0	0.0

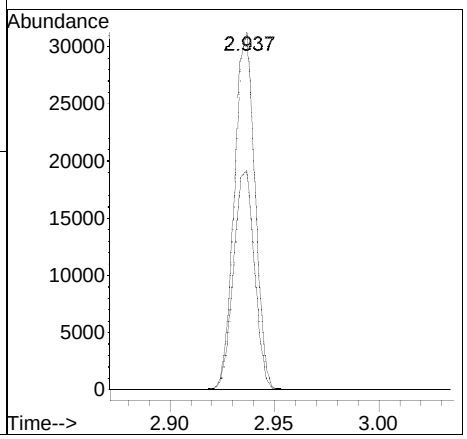


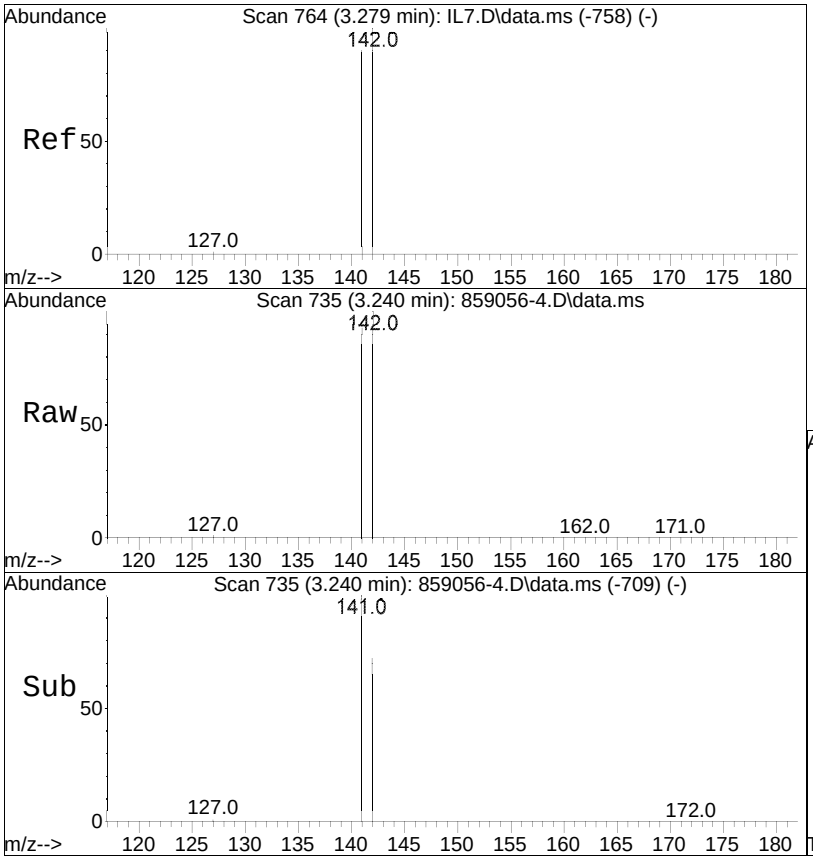


#11
Hexachlorobutadiene
Concen: 2560.49 ng/ml
RT: 2.937 min Scan# 641
Delta R.T. 0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:225 Resp: 20865

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.2	75.2

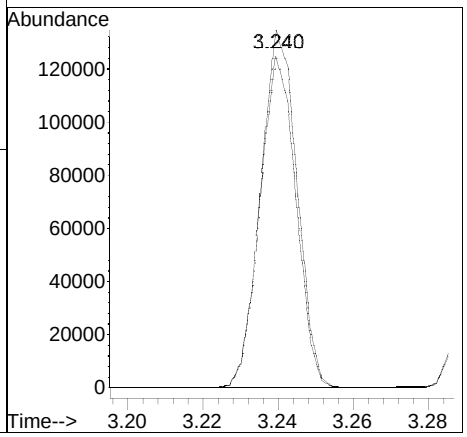


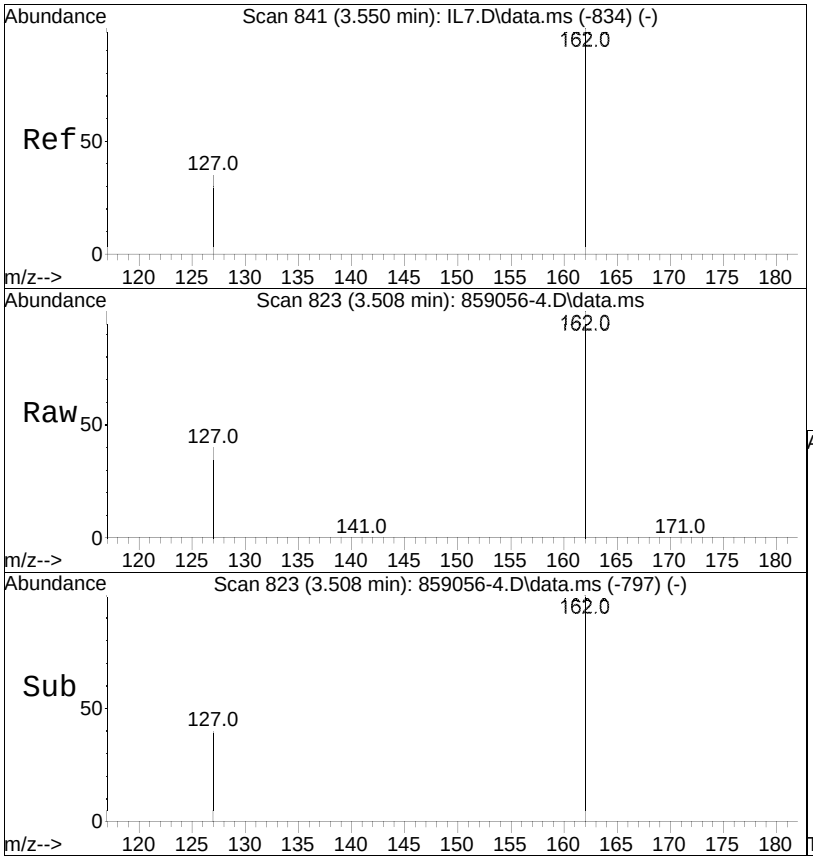


#12
2-Methylnaphthalene
Concen: 3077.99 ng/ml
RT: 3.240 min Scan# 735
Delta R.T. -0.002 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:142 Resp: 89306

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.6	110.4

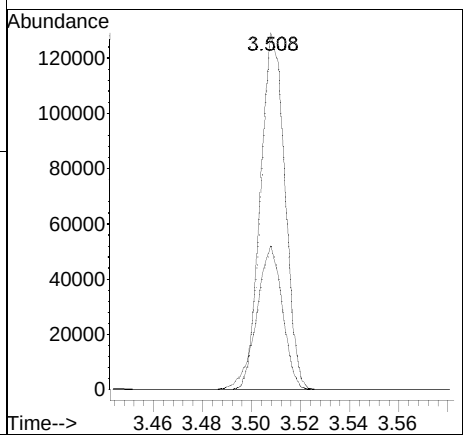


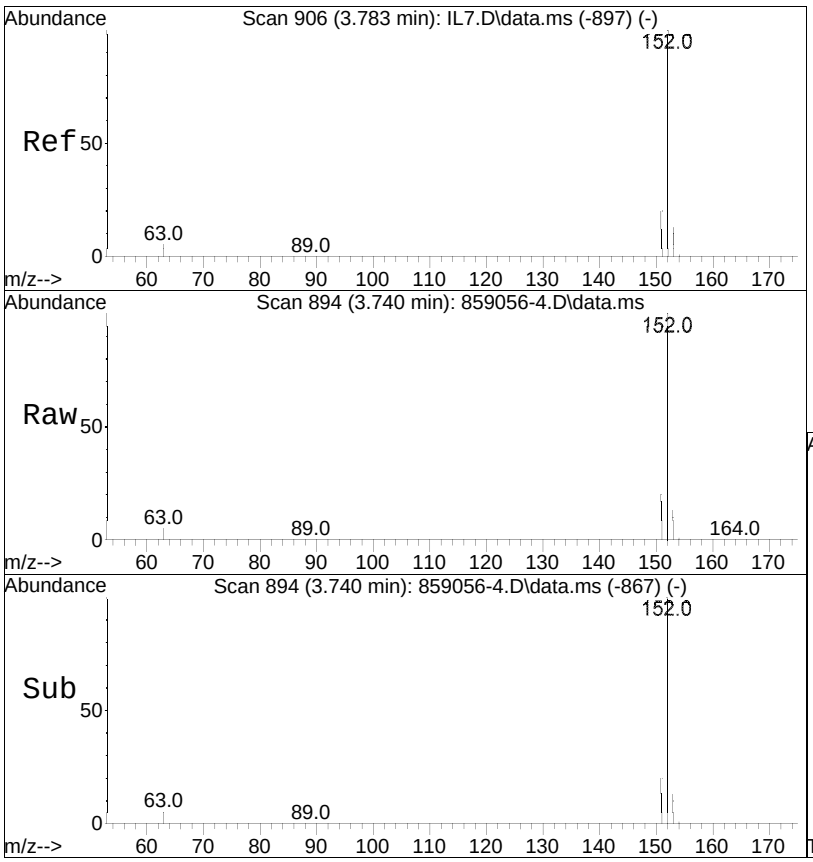


#15
2-Chloronaphthalene
Concen: 2923.37 ng/ml
RT: 3.508 min Scan# 823
Delta R.T. -0.002 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:162 Resp: 86828

Ion	Ratio	Lower	Upper
162	100		
127	43.3	29.1	43.7

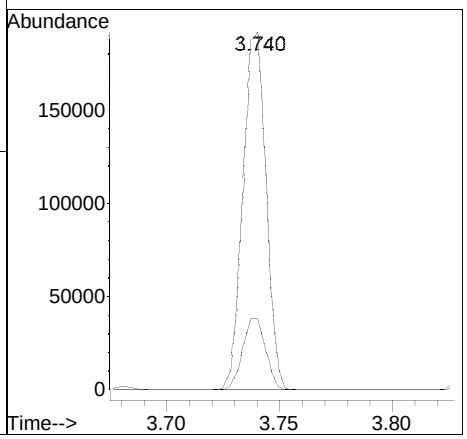


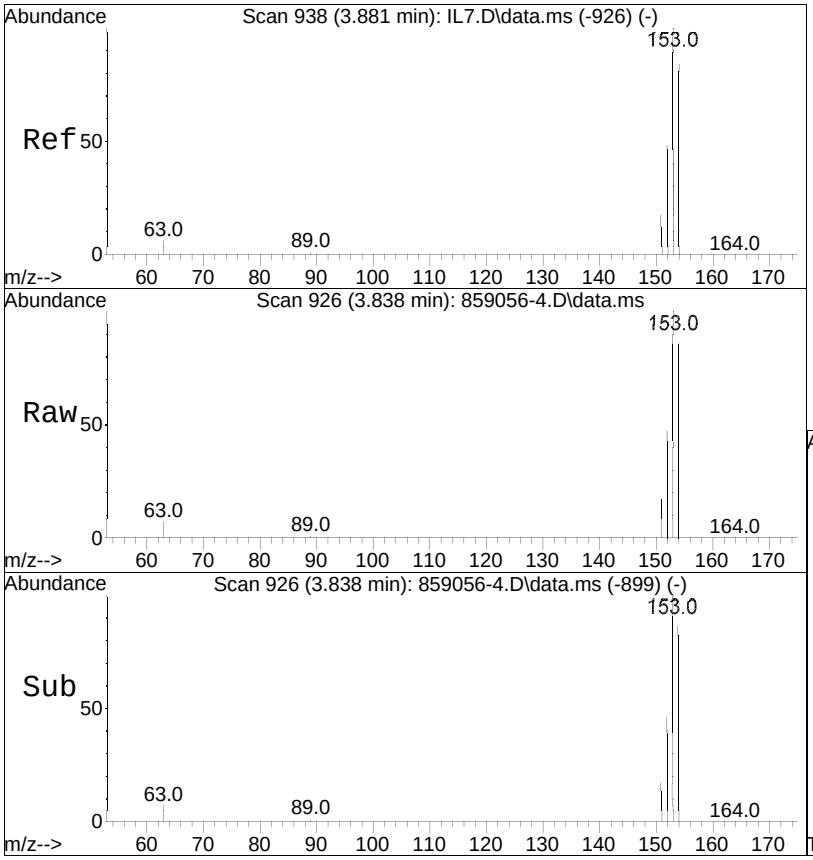


#17
Acenaphthylene
Concen: 3080.32 ng/ml
RT: 3.740 min Scan# 894
Delta R.T. 0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:152 Resp: 134671

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.8

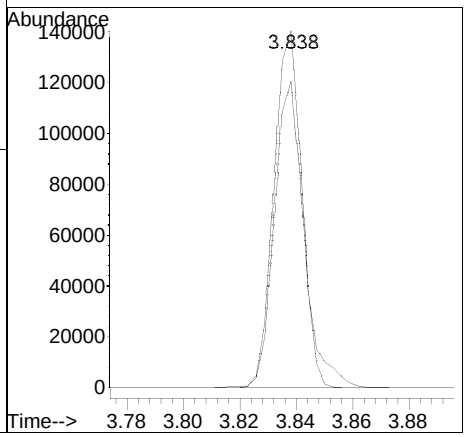


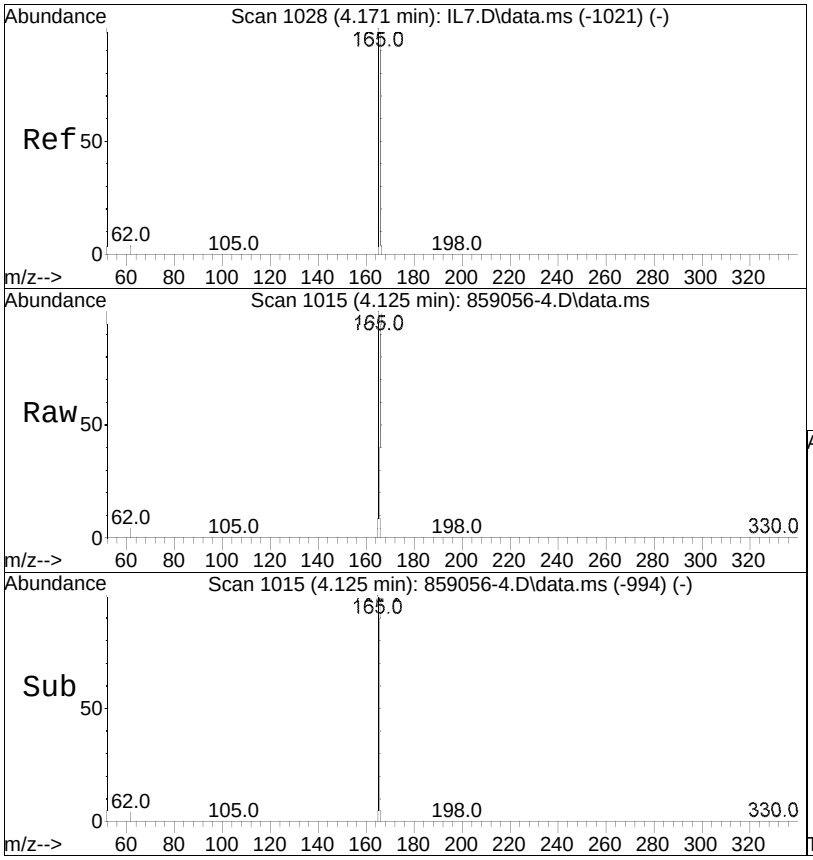


#19
Acenaphthene
Concen: 3287.10 ng/ml
RT: 3.838 min Scan# 926
Delta R.T. 0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:153 Resp: 95281

Ion	Ratio	Lower	Upper
153	100		
154	92.1	70.8	106.2

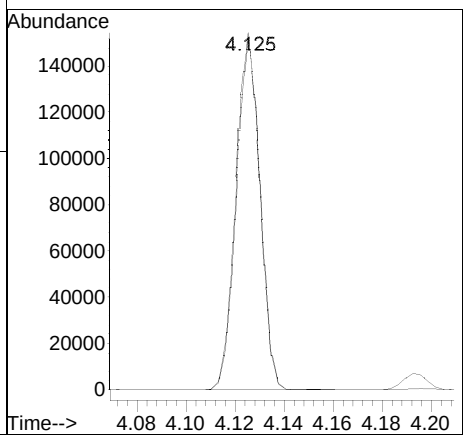


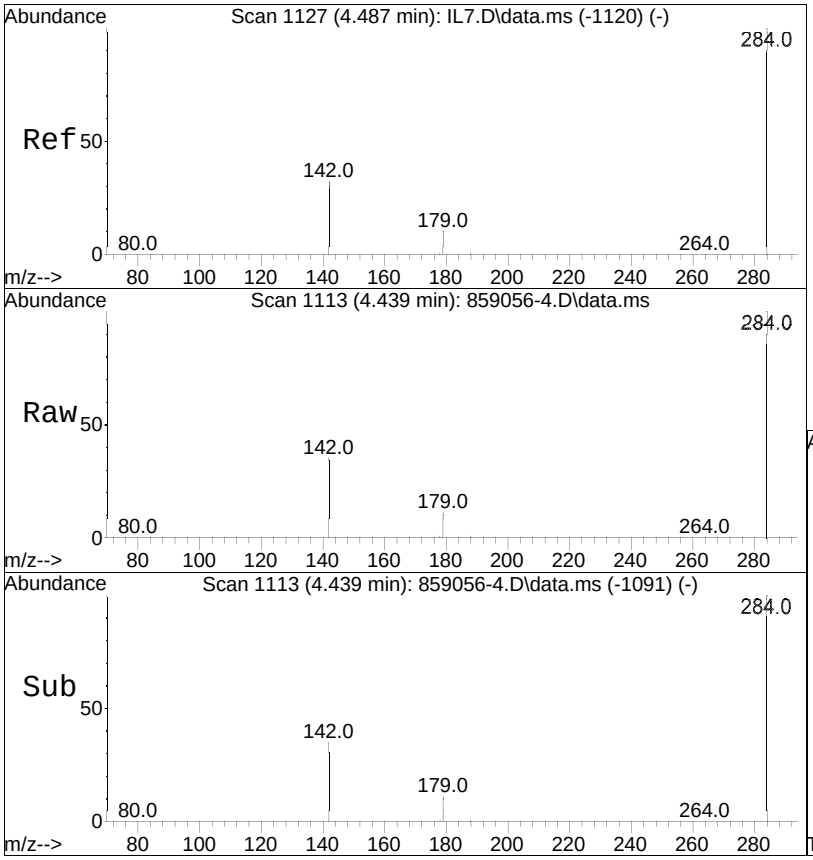


#21
Fluorene
Concen: 3343.78 ng/ml
RT: 4.125 min Scan# 1015
Delta R.T. 0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:166 Resp: 102225

Ion	Ratio	Lower	Upper
166	100		
165	101.5	81.0	121.4

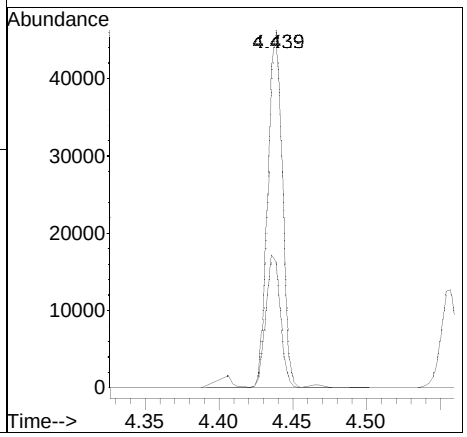


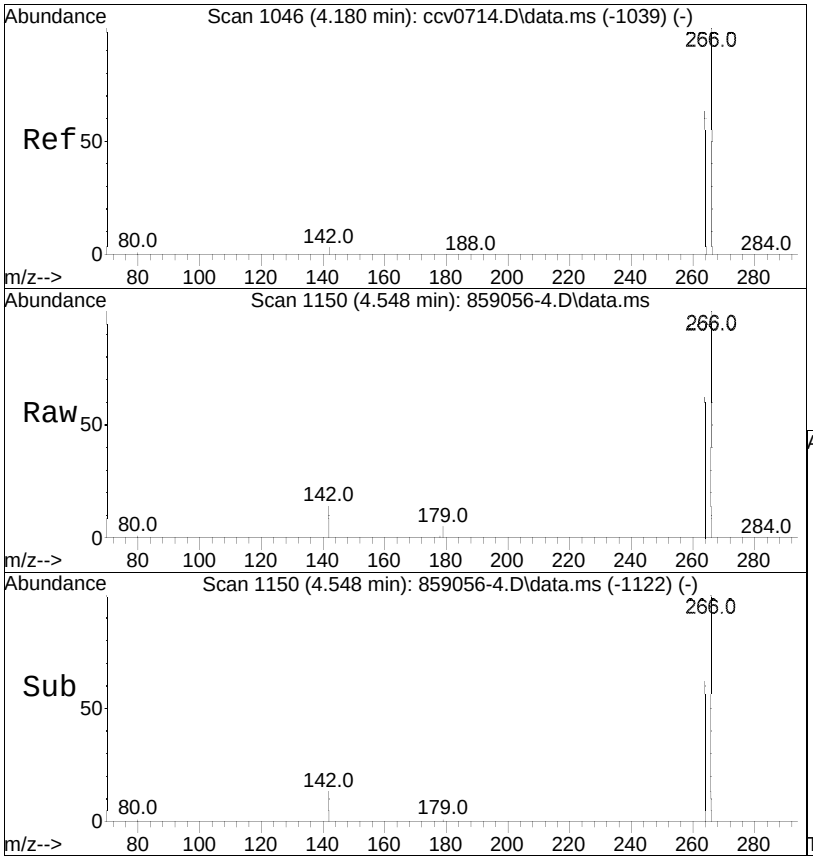


#25
Hexachlorobenzene
Concen: 3614.43 ng/ml
RT: 4.439 min Scan# 1113
Delta R.T. 0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:284 Resp: 36408

Ion	Ratio	Lower	Upper
284	100		
142	32.4	27.7	41.5

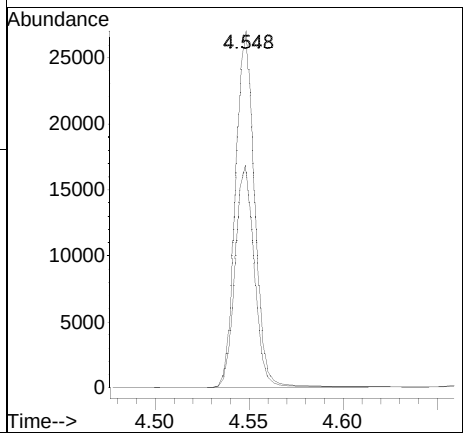


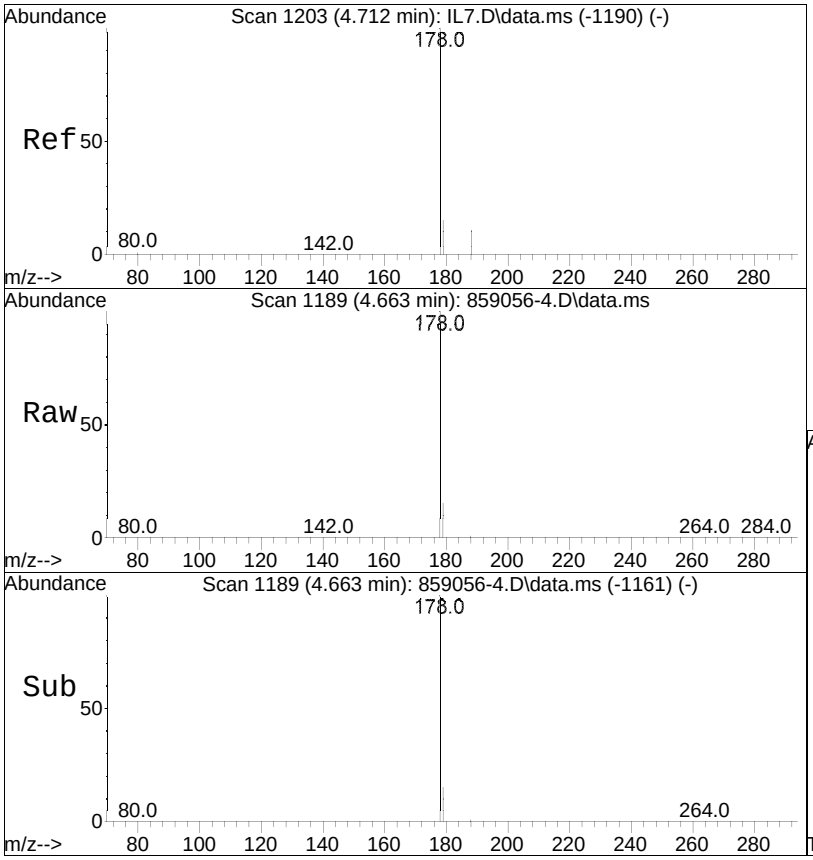


#26
Pentachlorophenol
Concen: 3757.64 ng/ml
RT: 4.548 min Scan# 1150
Delta R.T. 0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:266 Resp: 18978

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.9	76.3

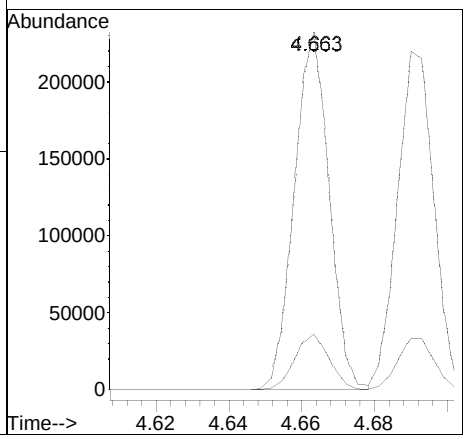


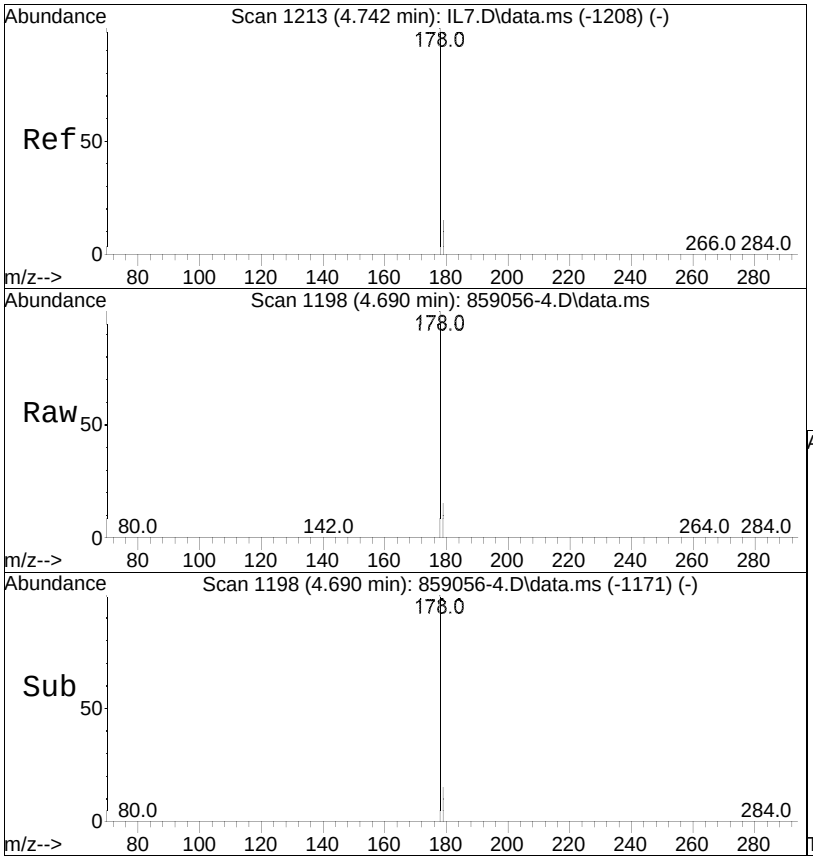


#27
Phenanthrene
Concen: 3541.97 ng/ml
RT: 4.663 min Scan# 1189
Delta R.T. 0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:178 Resp: 154300

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

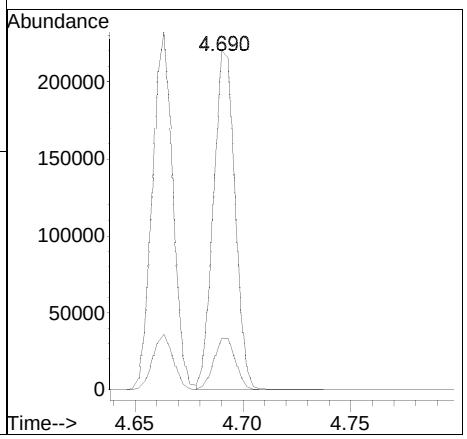


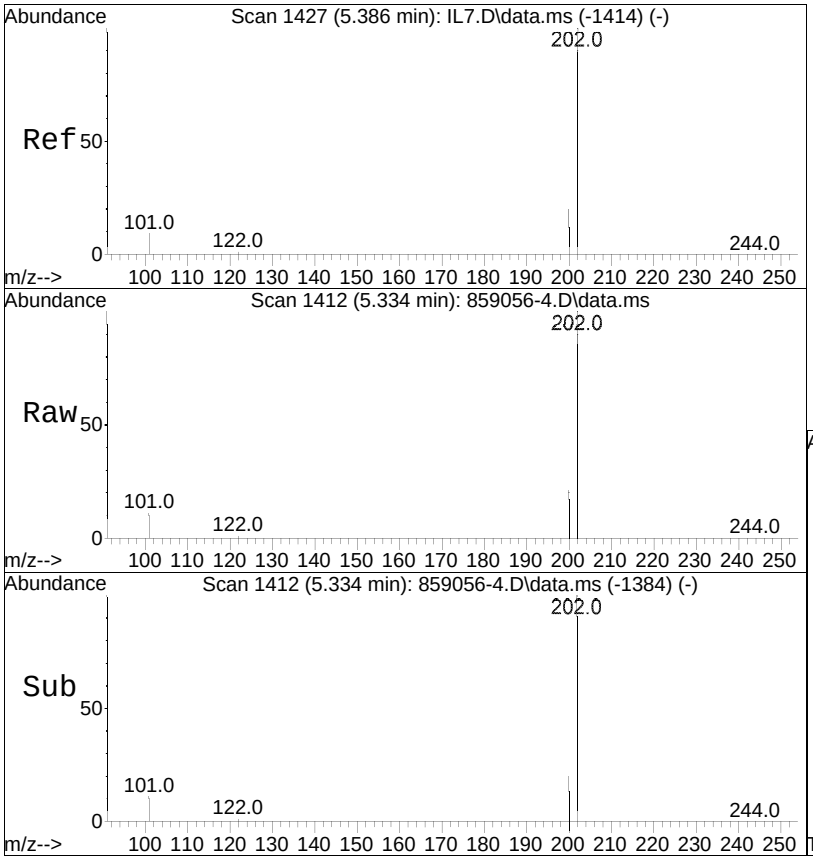


#28
Anthracene
Concen: 3748.84 ng/ml
RT: 4.690 min Scan# 1198
Delta R.T. -0.002 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:178 Resp: 152862

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

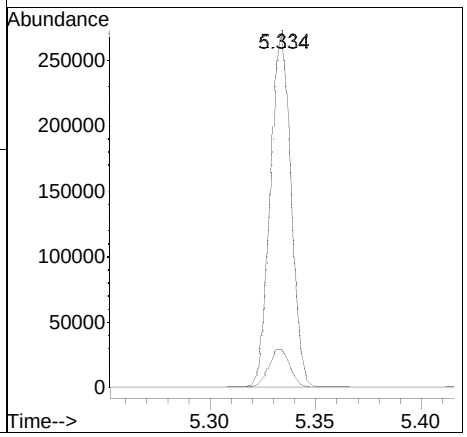


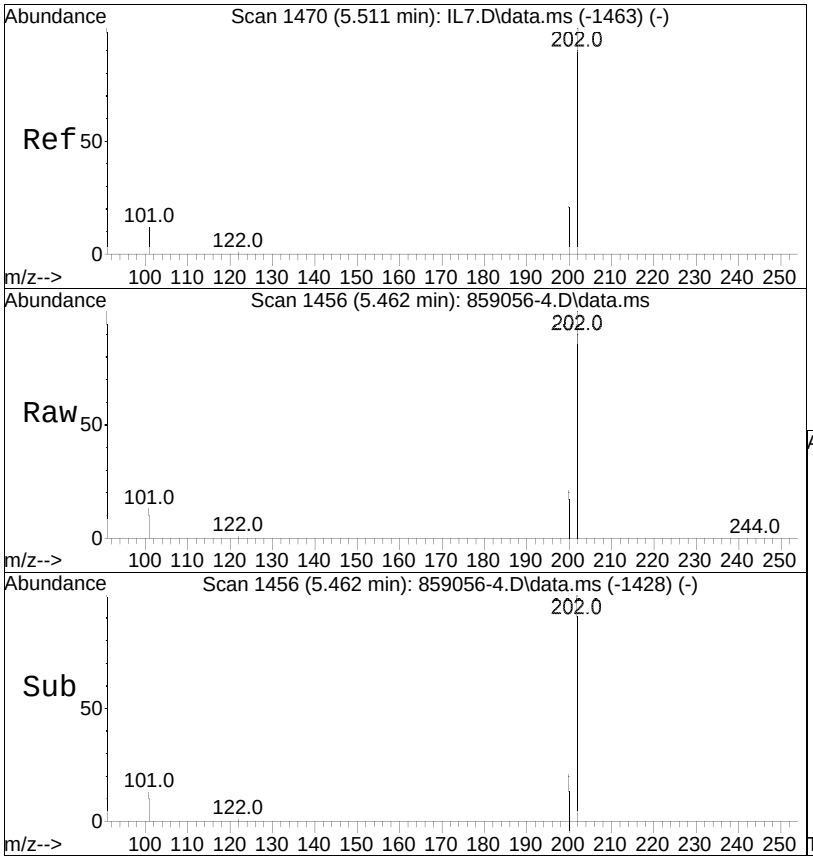


#29
Fluoranthene
Concen: 3815.07 ng/ml
RT: 5.334 min Scan# 1412
Delta R.T. 0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:202 Resp: 182755

Ion	Ratio	Lower	Upper
202	100		
101	11.2	7.8	11.8

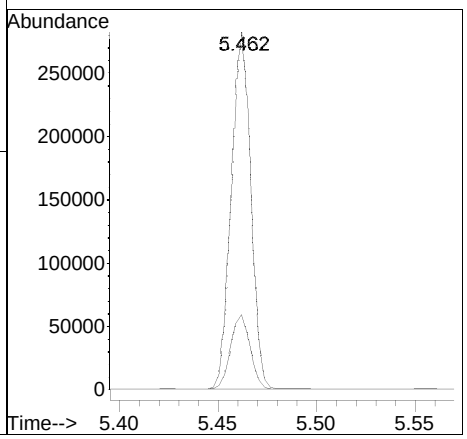


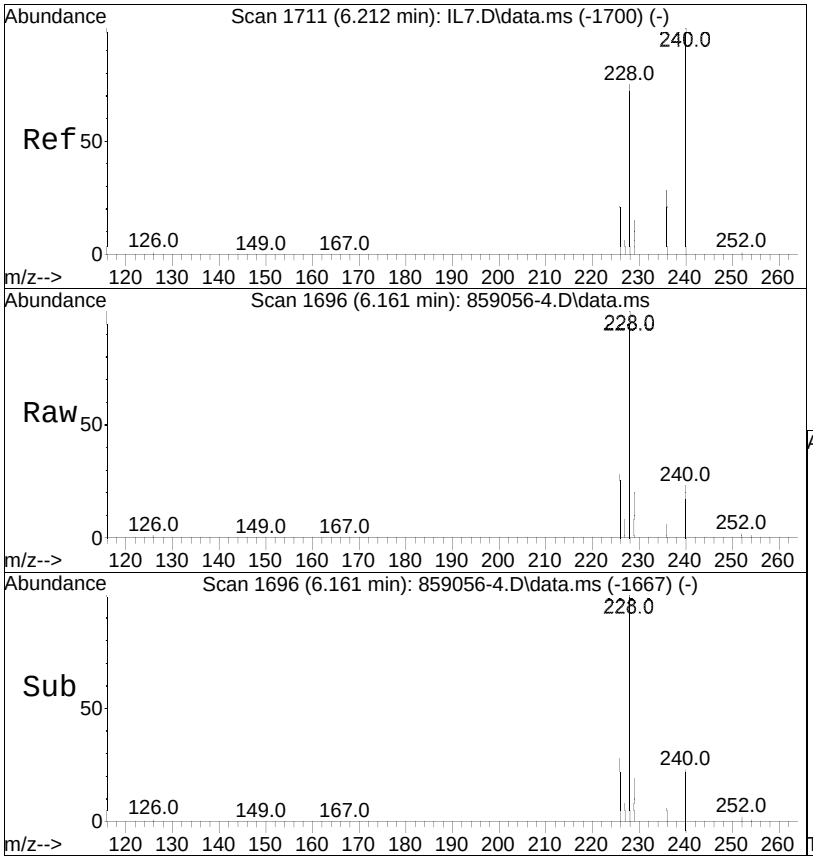


#30
Pyrene
Concen: 3820.97 ng/ml
RT: 5.462 min Scan# 1456
Delta R.T. 0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:202 Resp: 191767

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4

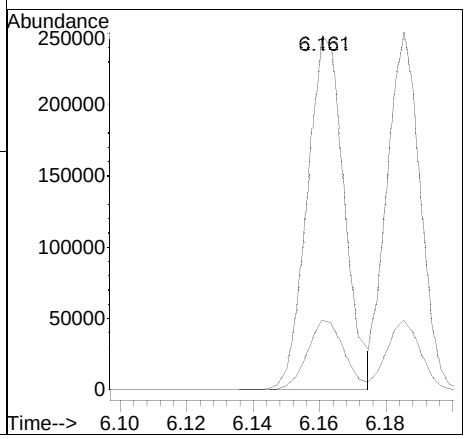


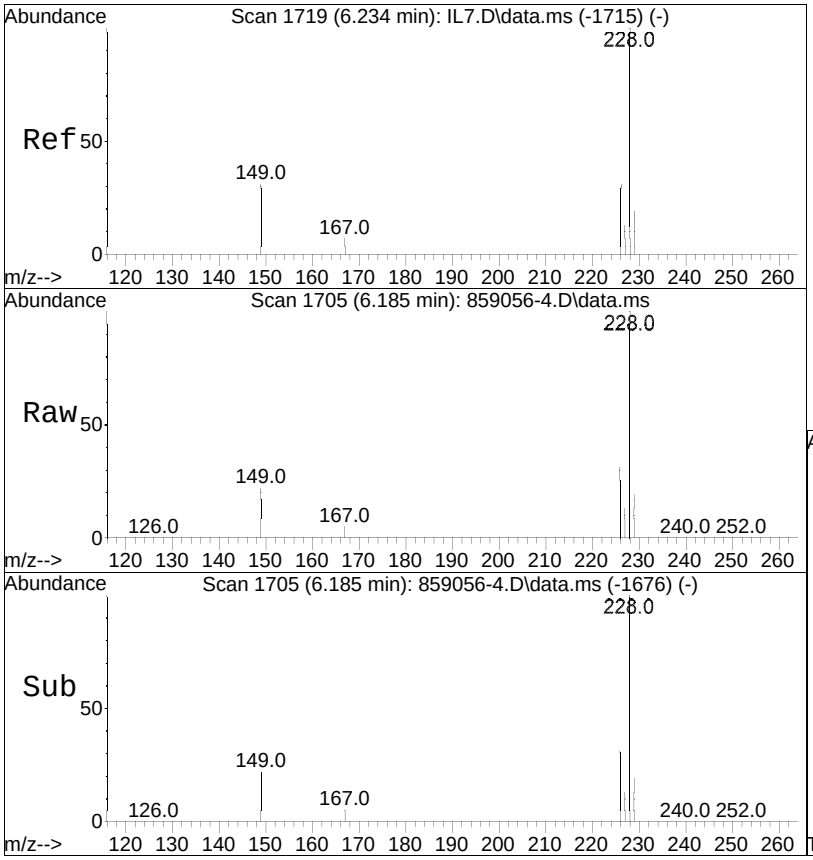


#33
Benzo[a]anthracene
Concen: 4010.57 ng/ml
RT: 6.161 min Scan# 1696
Delta R.T. -0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:228 Resp: 192617

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.6	23.4

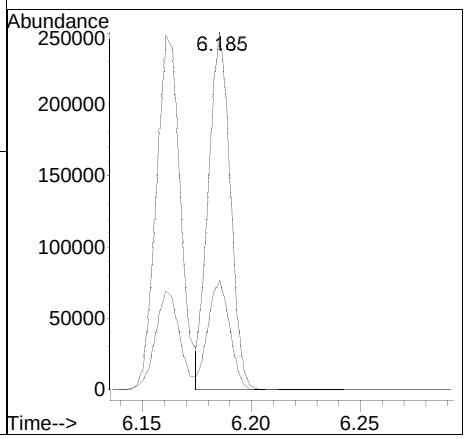


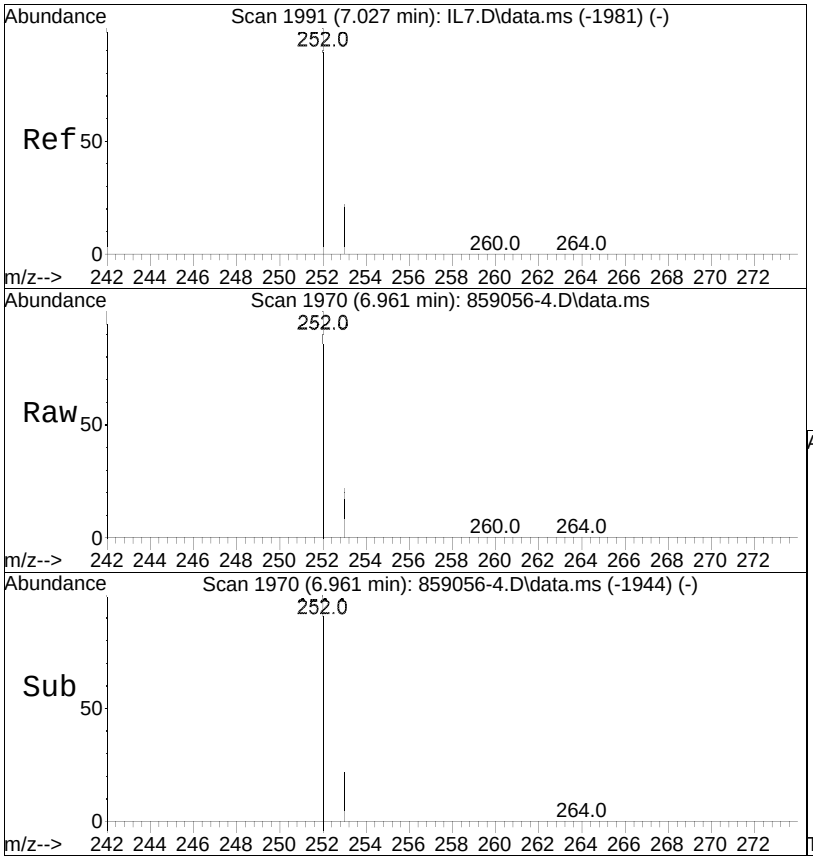


#35
Chrysene
Concen: 3557.65 ng/ml
RT: 6.185 min Scan# 1705
Delta R.T. -0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:228 Resp: 174120

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.2	36.2

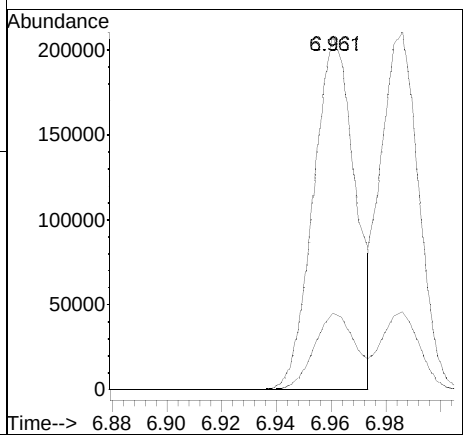


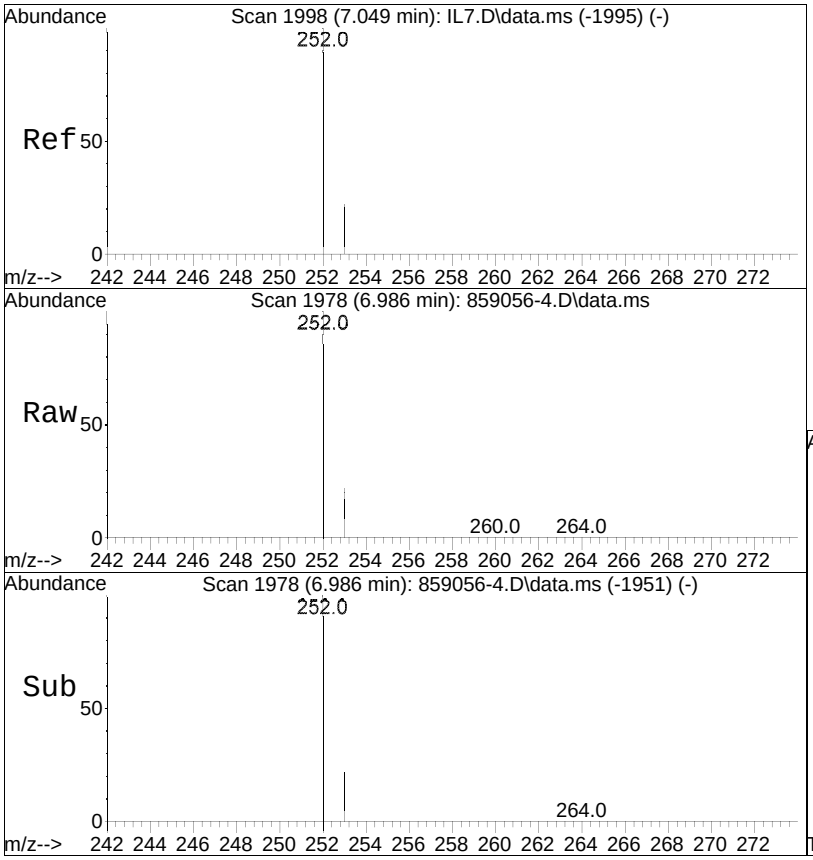


#38
Benzo[b]fluoranthene
Concen: 4186.70 ng/ml
RT: 6.961 min Scan# 1970
Delta R.T. 0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:252 Resp: 221720

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8

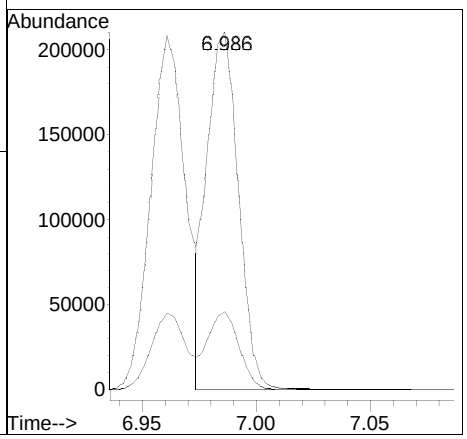


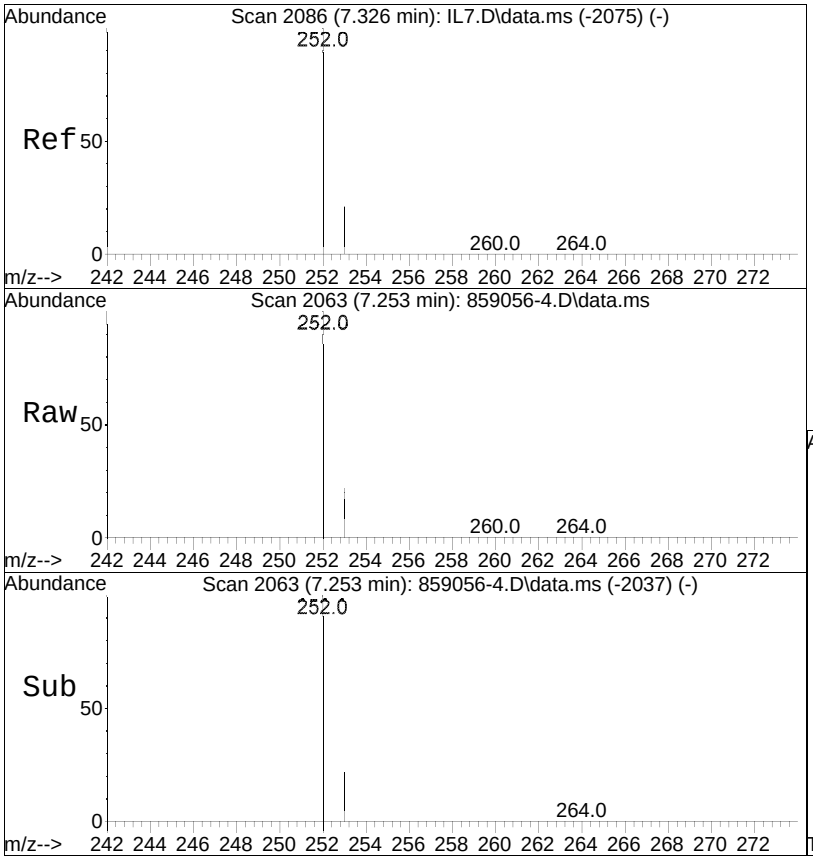


#39
Benzo[k]fluoranthene
Concen: 3799.96 ng/ml
RT: 6.986 min Scan# 1978
Delta R.T. 0.004 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:252 Resp: 199656

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3

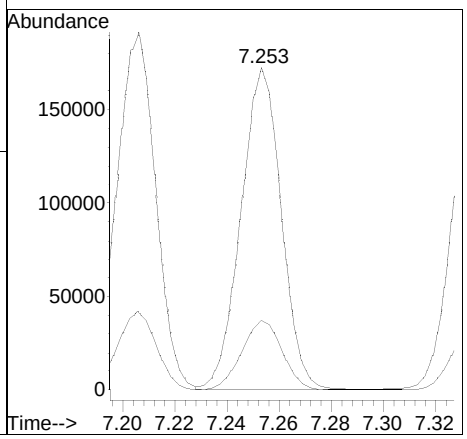


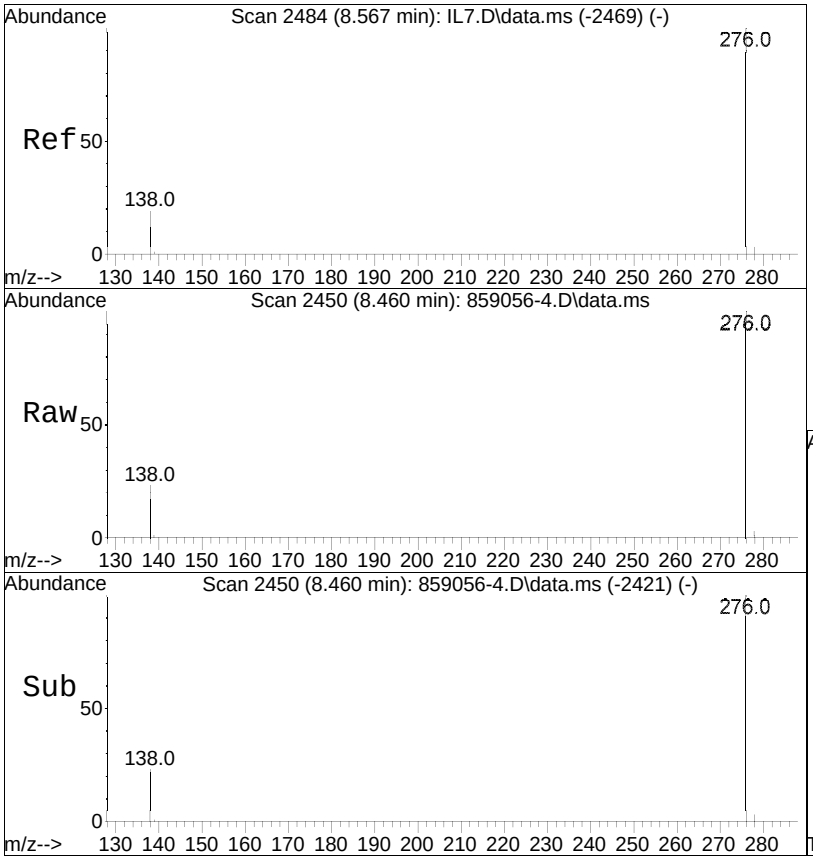


#40
Benzo[a]pyrene
Concen: 3948.70 ng/ml
RT: 7.253 min Scan# 2063
Delta R.T. 0.001 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:252 Resp: 183310

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.2	25.8

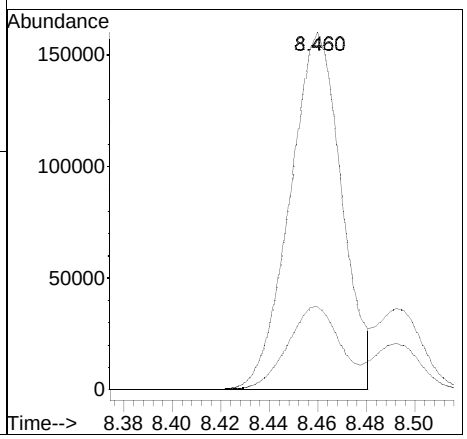


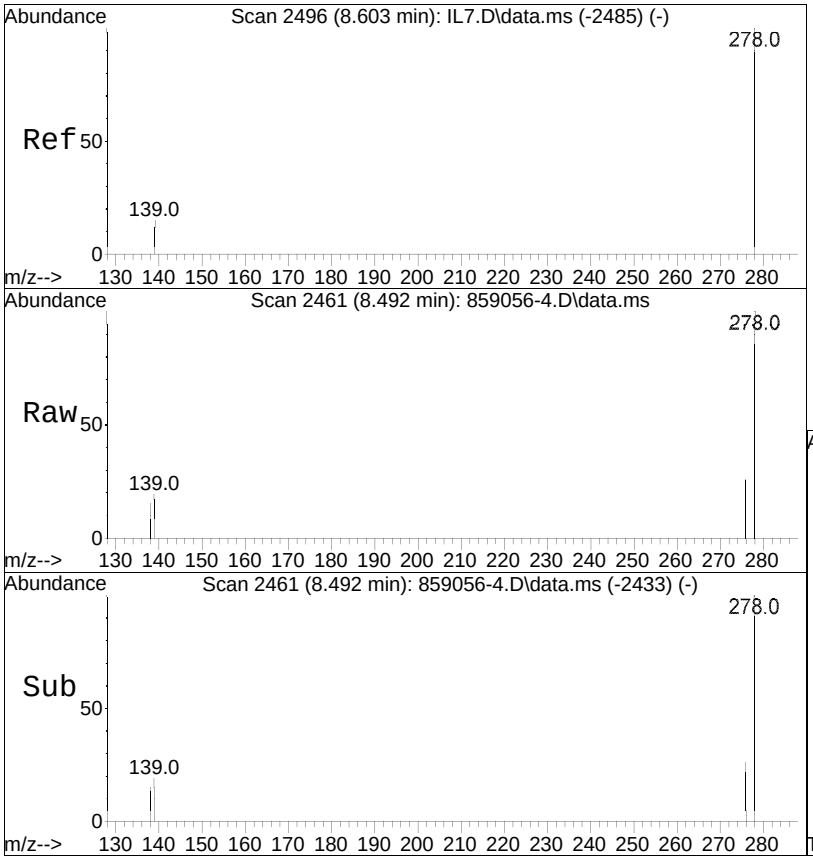


#41
Indeno[1,2,3-cd]pyrene
Concen: 4890.61 ng/ml
RT: 8.460 min Scan# 2450
Delta R.T. 0.007 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:276 Resp: 236317

Ion	Ratio	Lower	Upper
276	100		
138	23.8	14.5	21.7#

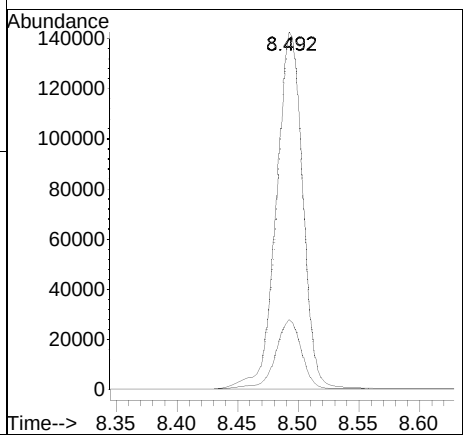


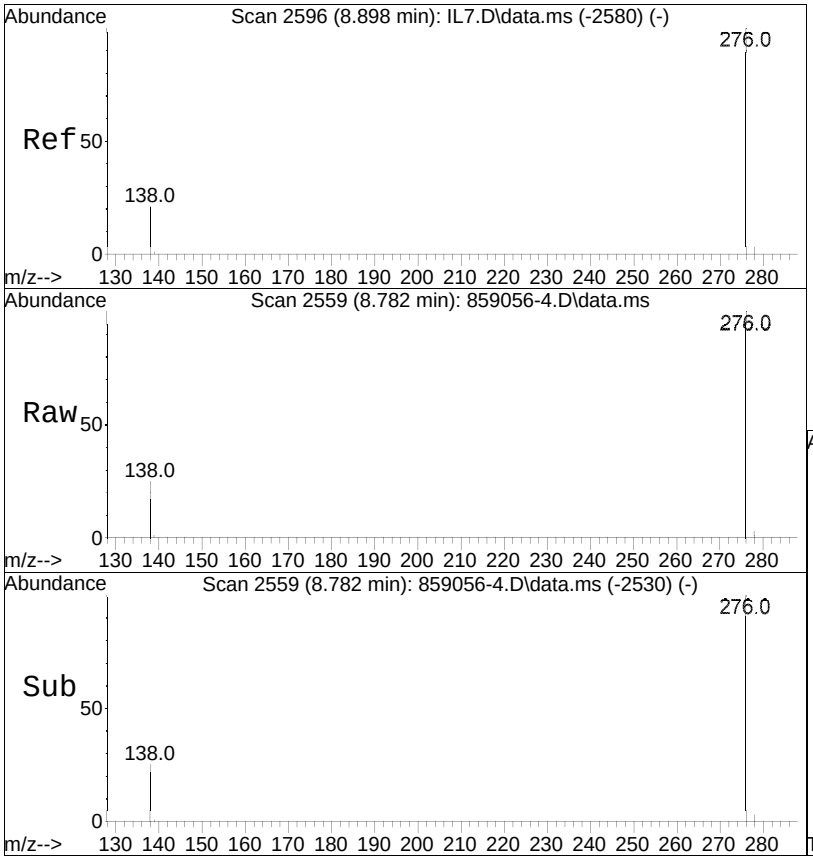


#42
Dibenzo[a,h]anthracene
Concen: 4578.40 ng/ml
RT: 8.492 min Scan# 2461
Delta R.T. 0.004 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:278 Resp: 214012

Ion	Ratio	Lower	Upper
278	100		
139	19.5	13.0	19.4#

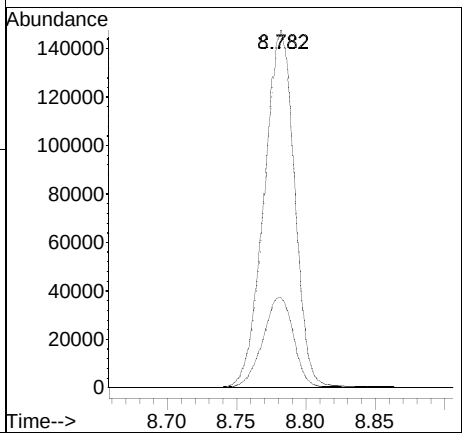




#43
Benzo[g,h,i]perylene
Concen: 4263.87 ng/ml
RT: 8.782 min Scan# 2559
Delta R.T. 0.007 min
Lab File: 859056-4.D
Acq: 07 Dec 2023 08:09 pm

Tgt Ion:276 Resp: 222829

Ion	Ratio	Lower	Upper
276	100		
138	25.6	16.5	24.7#



Manual Integration Report

Data Path	: I:\8270SIM\SV125\231207bLVQ	Method	: SIM-LVI_231026_sv125.M
Data File	: 859056-4.D	Operator	: SV125:dv
Date Inj'd	: 12/7/2023 8:09 pm	Instrument	: SV125
Sample	: WG1859056-4,32,,ah	Quant Date	: 12/7/2023 8:32 pm

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

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 859056-5.D
Acq On : 07 Dec 2023 08:25 pm
Operator : SV125:dv
Sample : WG1859056-5,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 07 20:48:30 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.189	152	39004	4000.000	ng/ml	0.00
Standard Area 1 = 35016			Recovery = 111.39%			
9) Naphthalene-d8	2.849	136	155322	4000.000	ng/ml	0.00
Standard Area 1 = 133973			Recovery = 115.94%			
18) Acenaphthene-d10	3.821	164	79903	4000.000	ng/ml	0.00
Standard Area 1 = 74318			Recovery = 107.52%			
23) Phenanthrene-d10	4.649	188	154274	4000.000	ng/ml	0.00
Standard Area 1 = 152800			Recovery = 100.96%			
32) Chrysene-d12	6.169	240	125926	4000.000	ng/ml	0.00
Standard Area 1 = 132050			Recovery = 95.36%			
37) Perylene-d12	7.311	264	157406	4000.000	ng/ml	0.00
Standard Area 1 = 149607			Recovery = 105.21%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.595	112	46128	4662.613	ng/ml	0.01
Spiked Amount 5000.000	Range 15 - 110		Recovery = 93.25%			
4) Phenol-d6	1.999	99	48747	4259.206	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 85.18%			
8) Nitrobenzene-d5	2.468	82	25740	2893.694	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 115.75%			
14) 2-Fluorobiphenyl	3.445	172	63504	2134.923	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 85.40%			
22) 2,4,6-Tribromophenol	4.260	330	17574	4226.085	ng/ml	0.00
Spiked Amount 5000.000	Range 15 - 110		Recovery = 84.52%			
31) 4-Terphenyl-d14	5.556	244	59912	2031.172	ng/ml	0.00
Spiked Amount 2500.000	Range 30 - 130		Recovery = 81.25%			
Target Compounds						Qvalue
7) Hexachloroethane	2.448	117	19874	4246.744	ng/ml	96
10) Naphthalene	2.862	128	170260	4366.931	ng/ml#	100
11) Hexachlorobutadiene	2.935	225	26059	3707.253	ng/ml	100
12) 2-Methylnaphthalene	3.240	142	110689	4422.619	ng/ml	100
15) 2-Chloronaphthalene	3.509	162	106563	4159.297	ng/ml	88
17) Acenaphthylene	3.738	152	163518	4335.867	ng/ml	99
19) Acenaphthene	3.839	153	115244	4444.669	ng/ml	96
21) Fluorene	4.126	166	120674	4412.745	ng/ml	100
25) Hexachlorobenzene	4.440	284	36625	4115.211	ng/ml	95
26) Pentachlorophenol	4.549	266	22768	4786.858	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 859056-5.D
Acq On : 07 Dec 2023 08:25 pm
Operator : SV125:dv
Sample : WG1859056-5,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 07 20:48:30 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv125\231207bLVI\ccv1207b.D
Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) Phenanthrene	4.664	178	177556	4613.024	ng/ml	100
28) Anthracene	4.691	178	176079	4887.380	ng/ml	100
29) Fluoranthene	5.335	202	200239	4731.009	ng/ml	96
30) Pyrene	5.463	202	209996	4735.684	ng/ml	100
33) Benzo[a]anthracene	6.164	228	200828	5032.885	ng/ml	100
35) Chrysene	6.186	228	186417	4603.102	ng/ml	99
38) Benzo[b]fluoranthene	6.962	252	229997	5422.136	ng/ml	100
39) Benzo[k]fluoranthene	6.987	252	202871	4820.562	ng/ml	100
40) Benzo[a]pyrene	7.255	252	188104	5058.801	ng/ml	100
41) Indeno[1,2,3-cd]pyrene	8.461	276	244363	6313.704	ng/ml#	87
42) Dibenzo[a,h]anthracene	8.493	278	220868	5899.149	ng/ml#	92
43) Benzo[g,h,i]perylene	8.783	276	230437	5505.104	ng/ml#	89

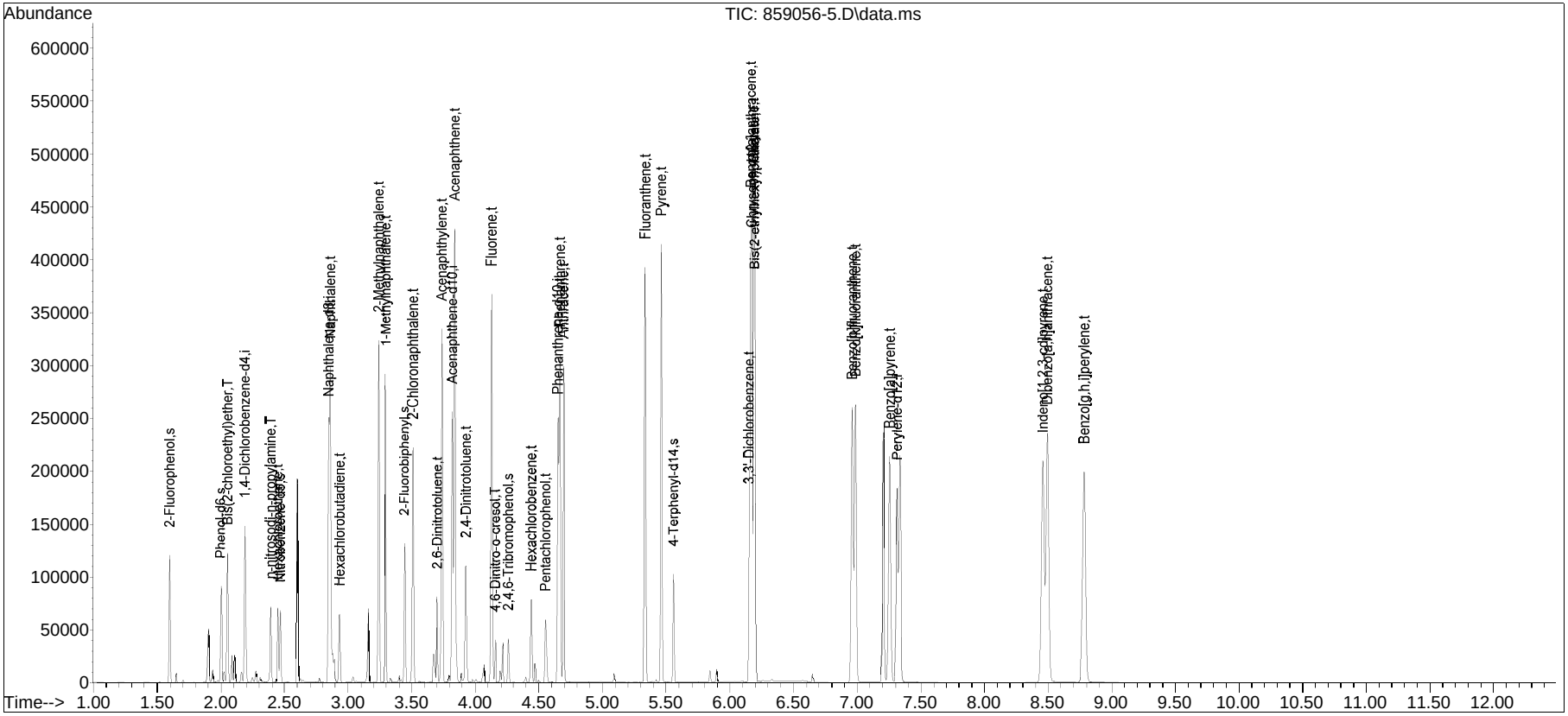
(#) = qualifier out of range (m) = manual integration (+) = signals summed

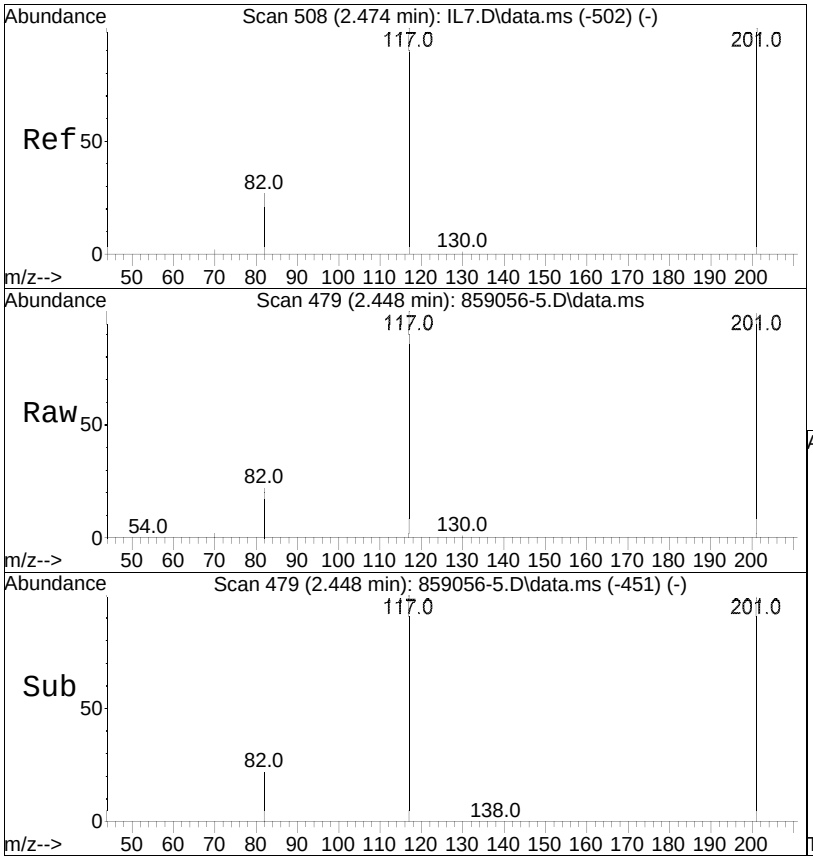
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\SV125\231207bLVI\
Data File : 859056-5.D
Acq On : 07 Dec 2023 08:25 pm
Operator : SV125:dv
Sample : WG1859056-5,32,,ah
Misc : WG1861049,WG1859056,ical20477
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 07 20:48:30 2023
Quant Method : I:\8270sim\sv125\231207bLVI\SIM-LVI_231026_sv125.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 07 12:12:27 2023
Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedI\ccv1207b.D•

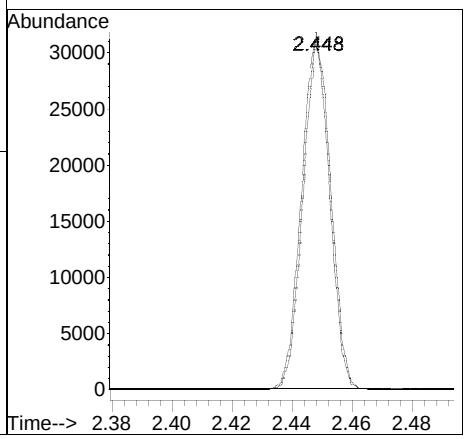


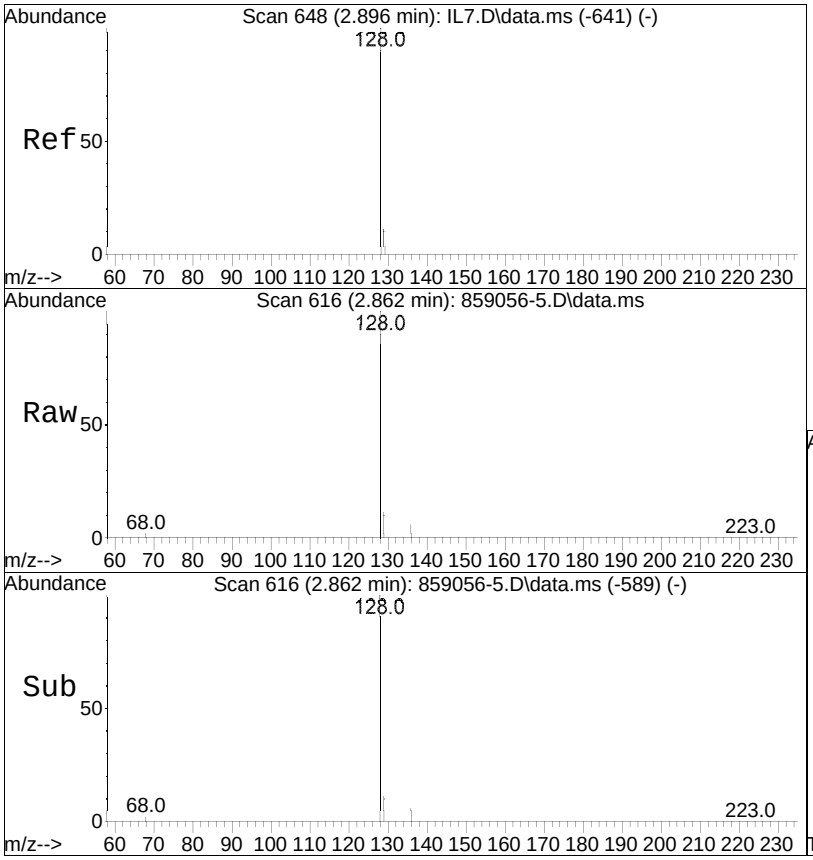


#7
Hexachloroethane
Concen: 4246.74 ng/ml
RT: 2.448 min Scan# 479
Delta R.T. 0.001 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:117 Resp: 19874

Ion	Ratio	Lower	Upper
117	100		
201	98.8	81.9	122.9

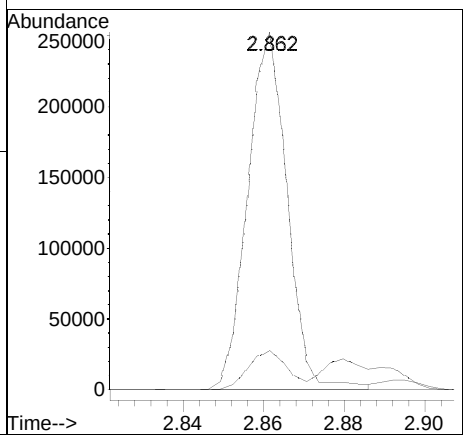


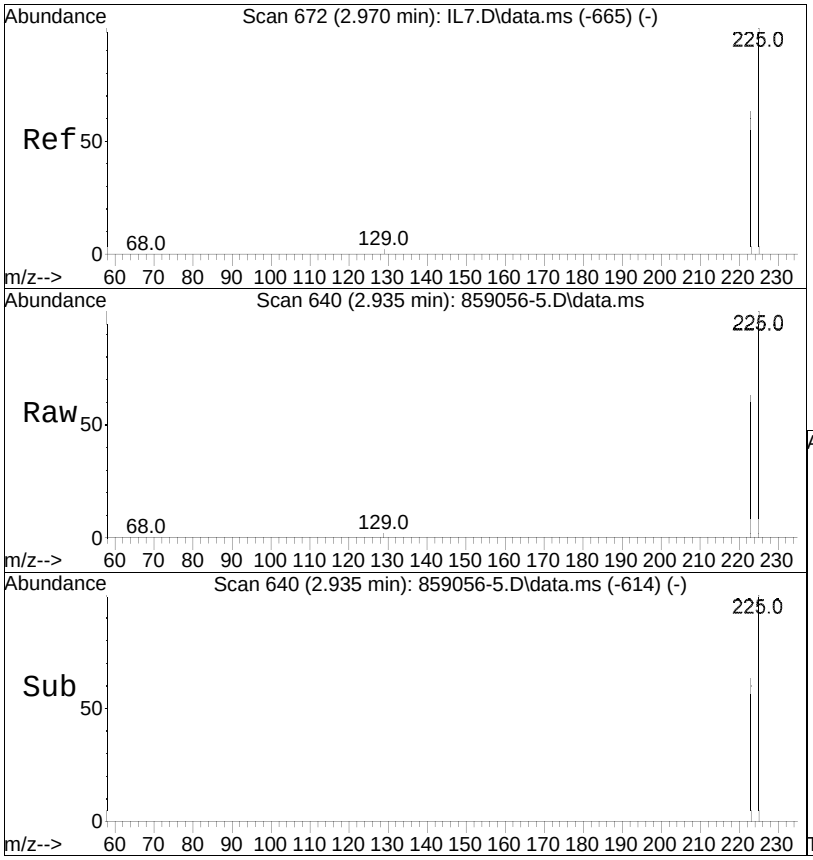


#10
Naphthalene
Concen: 4366.93 ng/ml
RT: 2.862 min Scan# 616
Delta R.T. 0.002 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:128 Resp: 170260

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	0.0	0.0	0.0

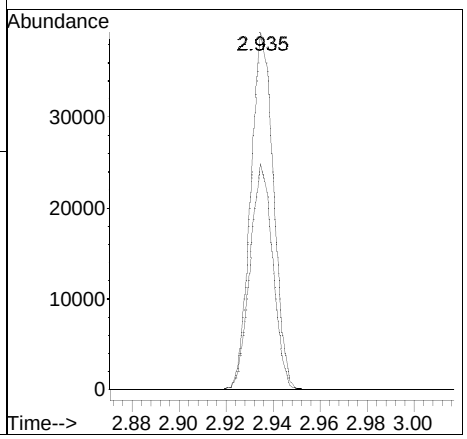


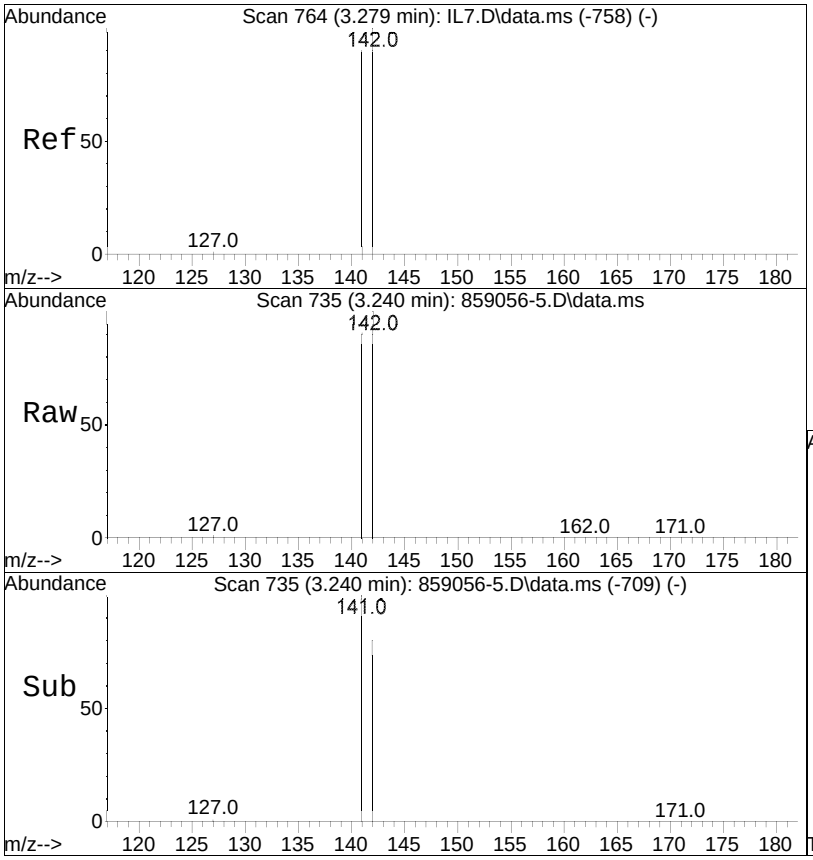


#11
Hexachlorobutadiene
Concen: 3707.25 ng/ml
RT: 2.935 min Scan# 640
Delta R.T. -0.001 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:225 Resp: 26059

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.2

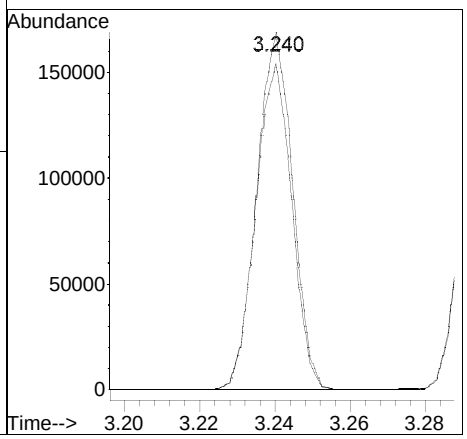


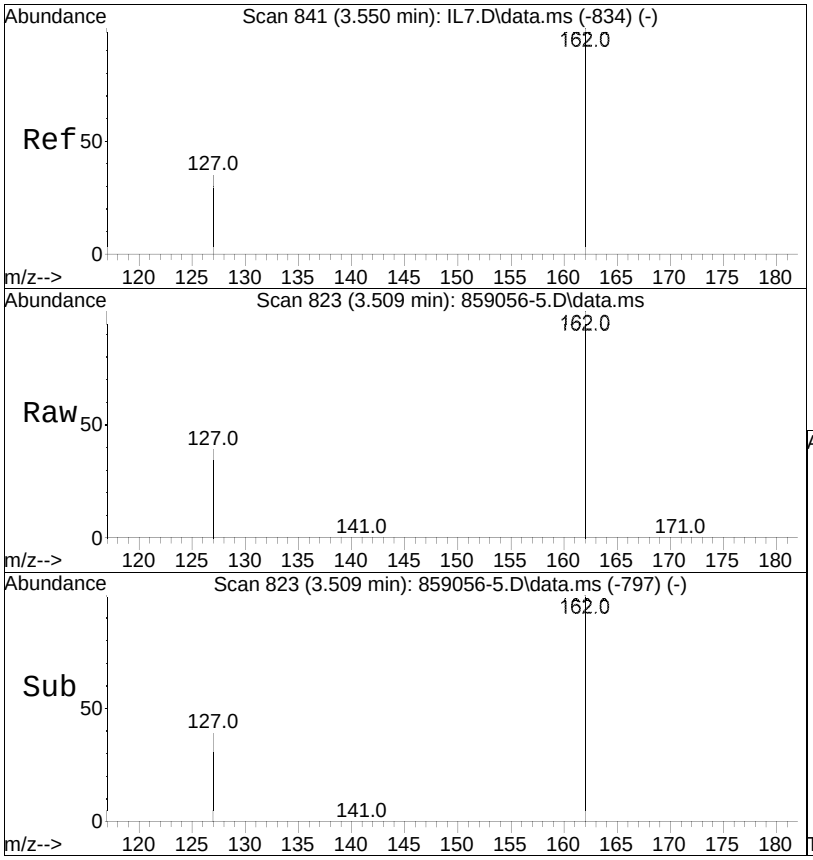


#12
2-Methylnaphthalene
Concen: 4422.62 ng/ml
RT: 3.240 min Scan# 735
Delta R.T. -0.001 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:142 Resp: 110689

Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.6	110.4

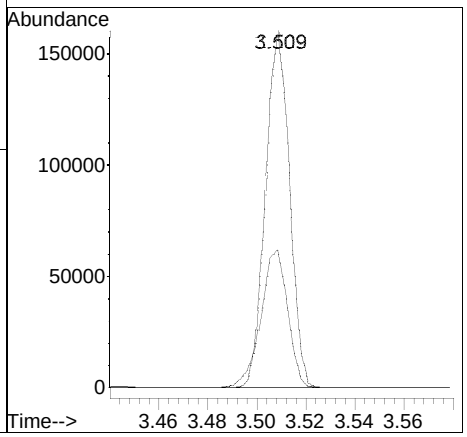


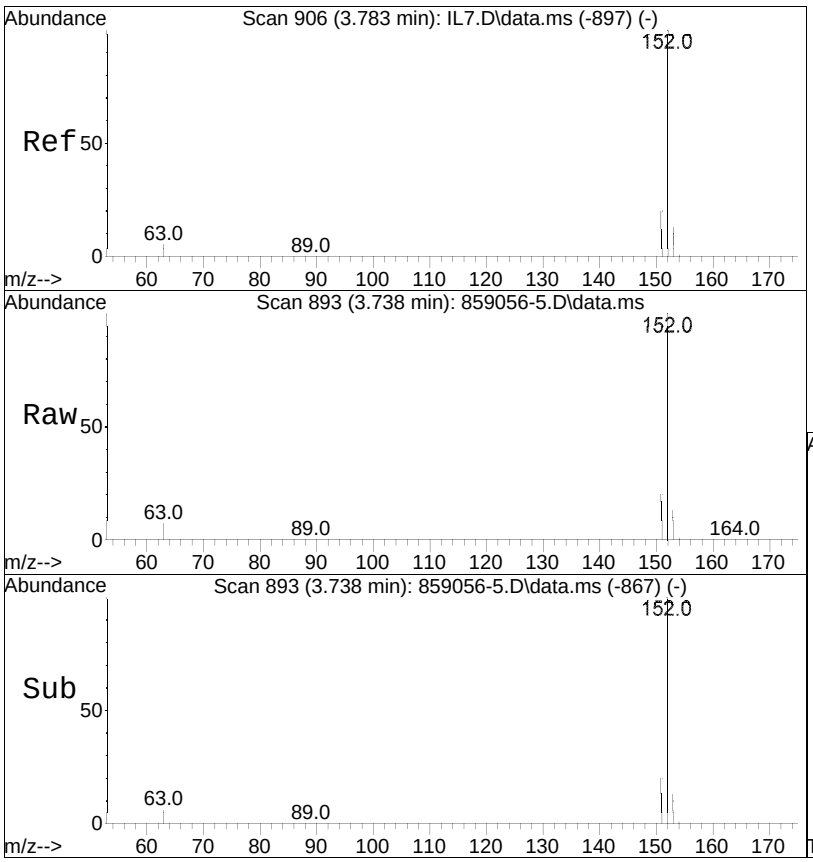


#15
2-Chloronaphthalene
Concen: 4159.30 ng/ml
RT: 3.509 min Scan# 823
Delta R.T. -0.001 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:162 Resp: 106563

Ion	Ratio	Lower	Upper
162	100		
127	43.4	29.1	43.7

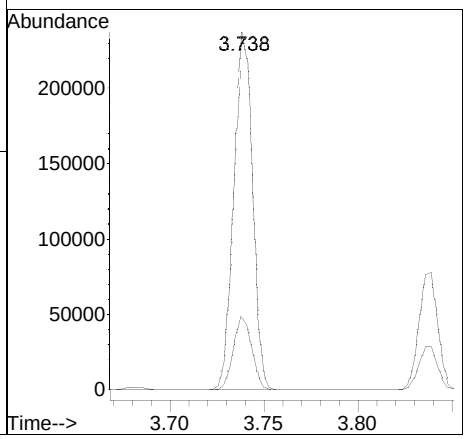


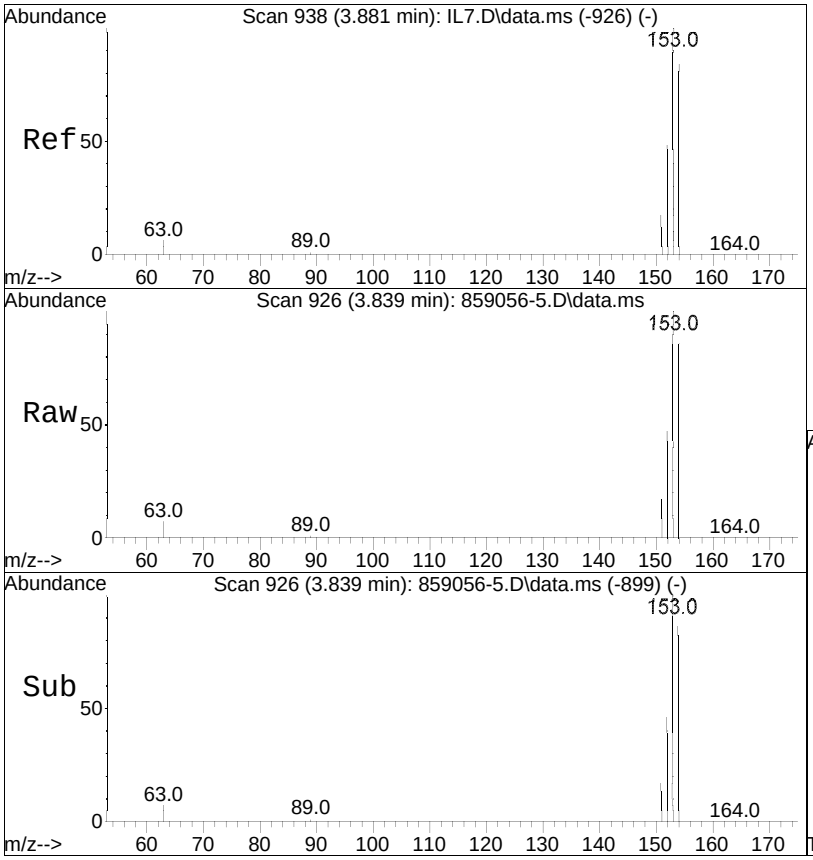


#17
Acenaphthylene
Concen: 4335.87 ng/ml
RT: 3.738 min Scan# 893
Delta R.T. -0.001 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:152 Resp: 163518

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8

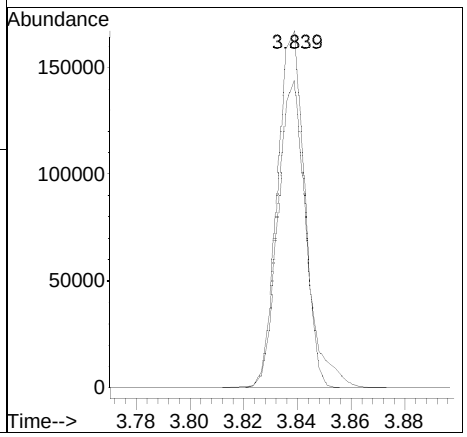


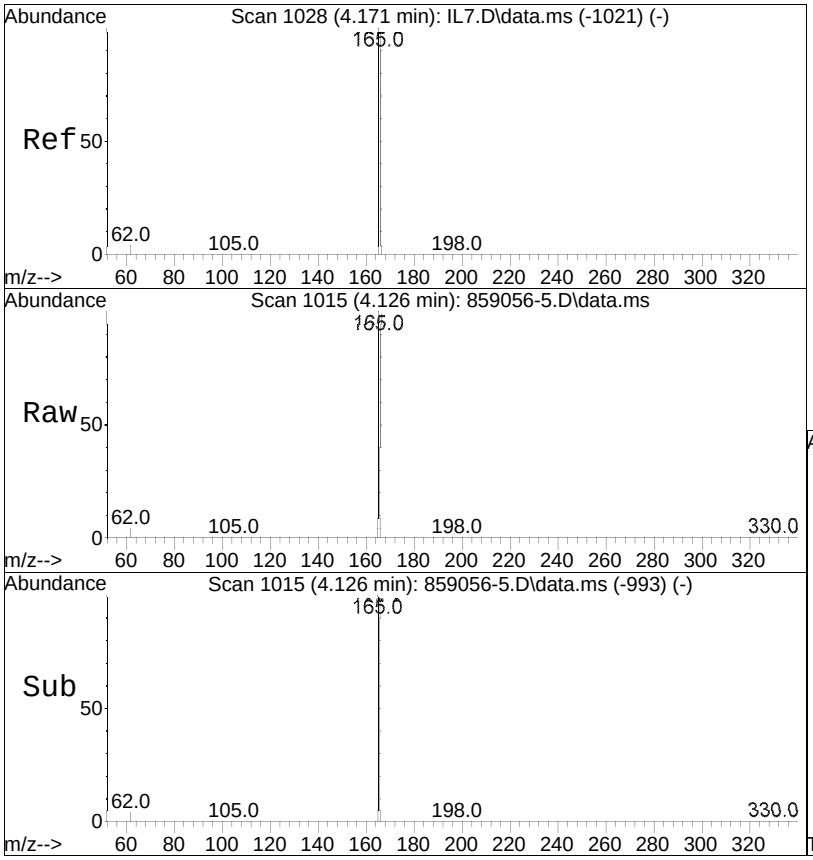


#19
Acenaphthene
Concen: 4444.67 ng/ml
RT: 3.839 min Scan# 926
Delta R.T. 0.002 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:153 Resp: 115244

Ion	Ratio	Lower	Upper
153	100		
154	92.0	70.8	106.2

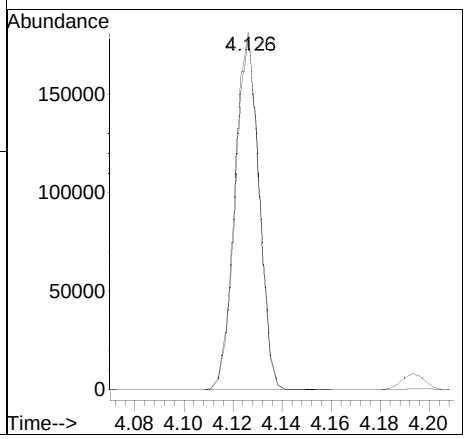


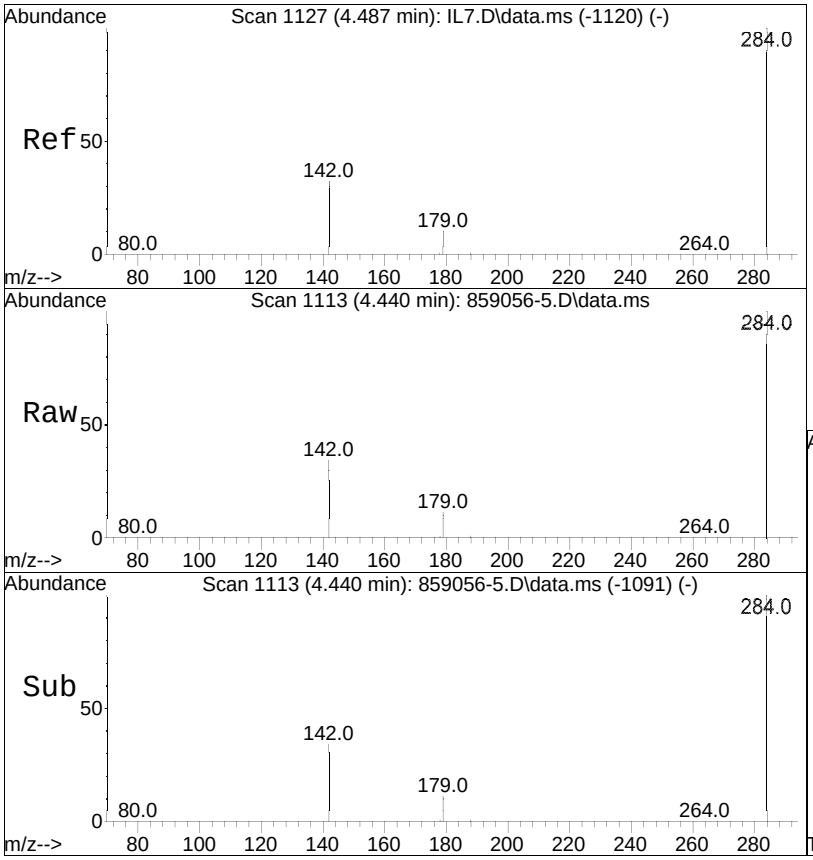


#21
Fluorene
Concen: 4412.75 ng/ml
RT: 4.126 min Scan# 1015
Delta R.T. 0.002 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:166 Resp: 120674

Ion	Ratio	Lower	Upper
166	100		
165	101.7	81.0	121.4

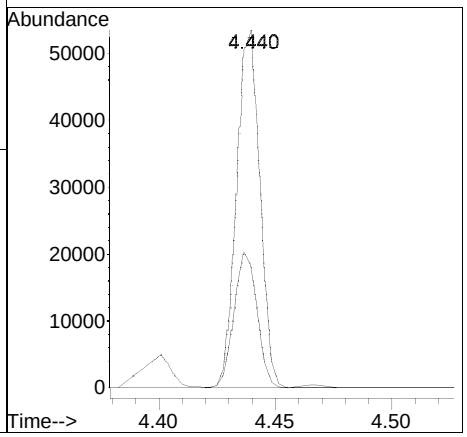


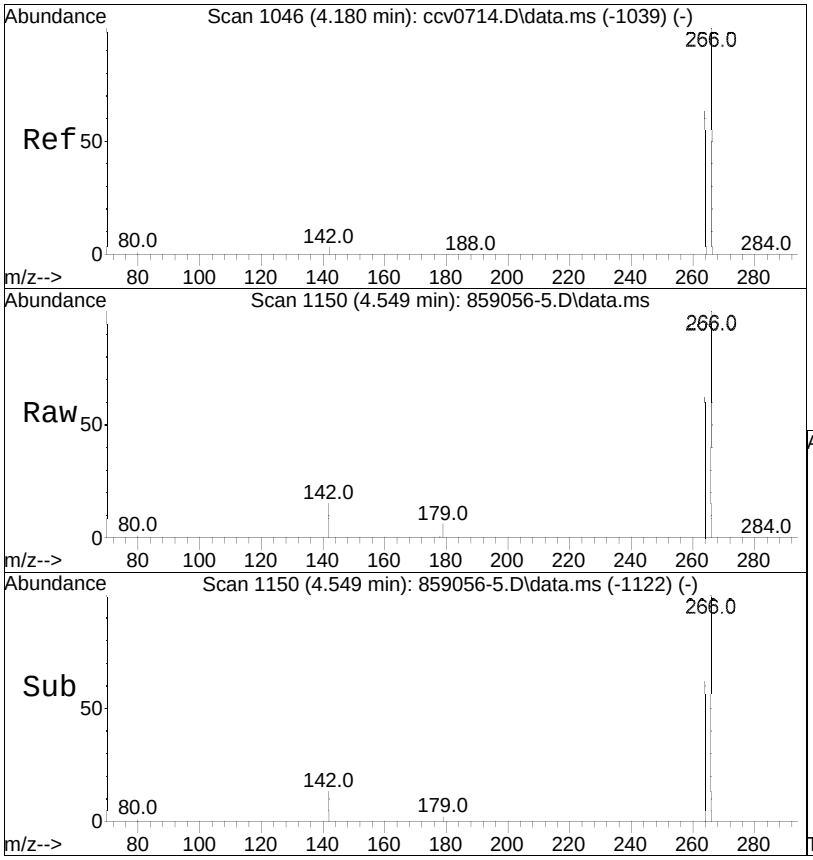


#25
Hexachlorobenzene
Concen: 4115.21 ng/ml
RT: 4.440 min Scan# 1113
Delta R.T. 0.002 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:284 Resp: 36625

Ion	Ratio	Lower	Upper
284	100		
142	37.6	27.7	41.5

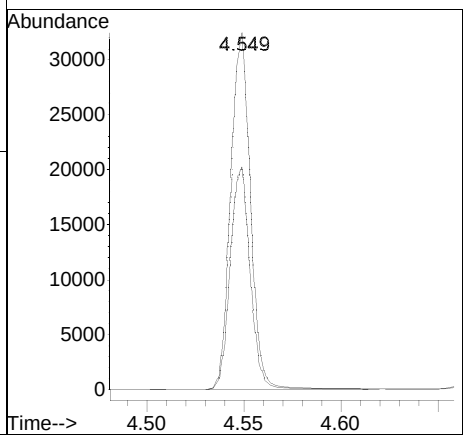


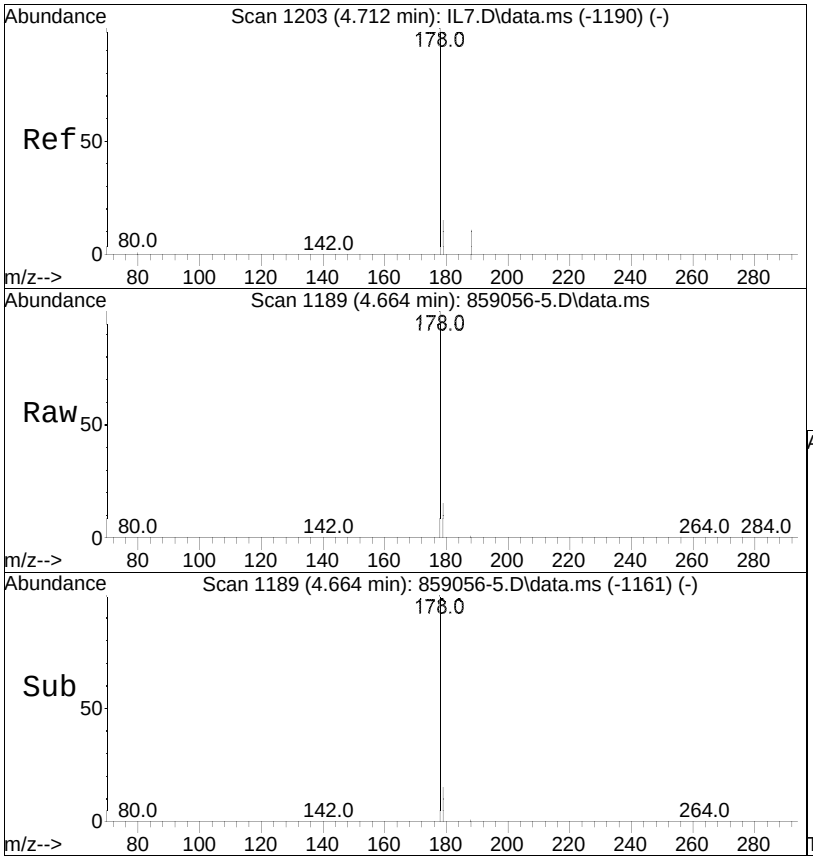


#26
Pentachlorophenol
Concen: 4786.86 ng/ml
RT: 4.549 min Scan# 1150
Delta R.T. 0.002 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:266 Resp: 22768

Ion	Ratio	Lower	Upper
266	100		
264	63.2	50.9	76.3

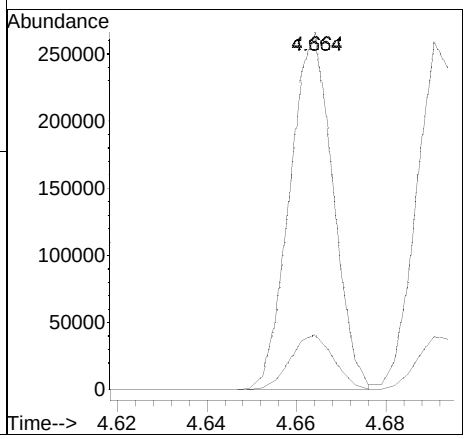


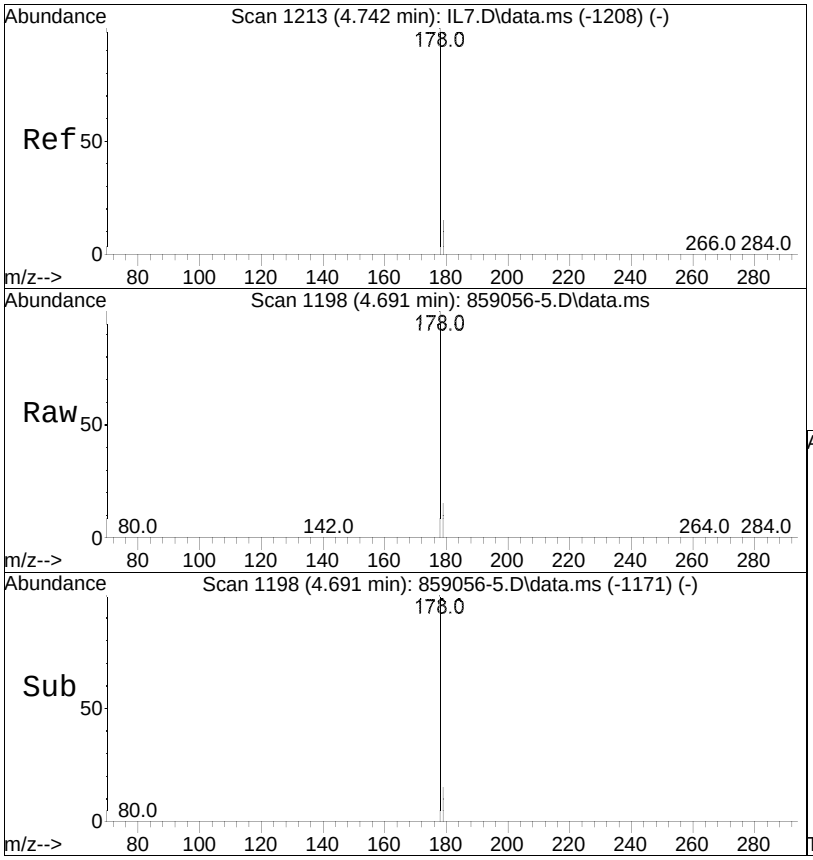


#27
Phenanthrene
Concen: 4613.02 ng/ml
RT: 4.664 min Scan# 1189
Delta R.T. 0.002 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:178 Resp: 177556

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5

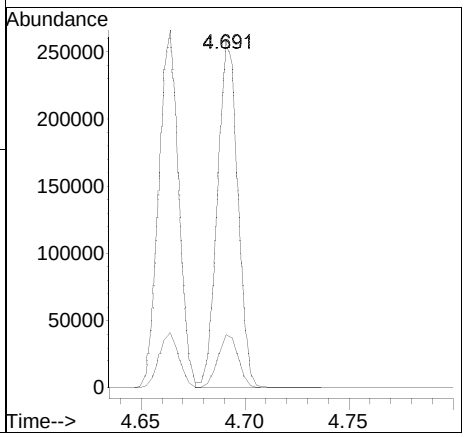


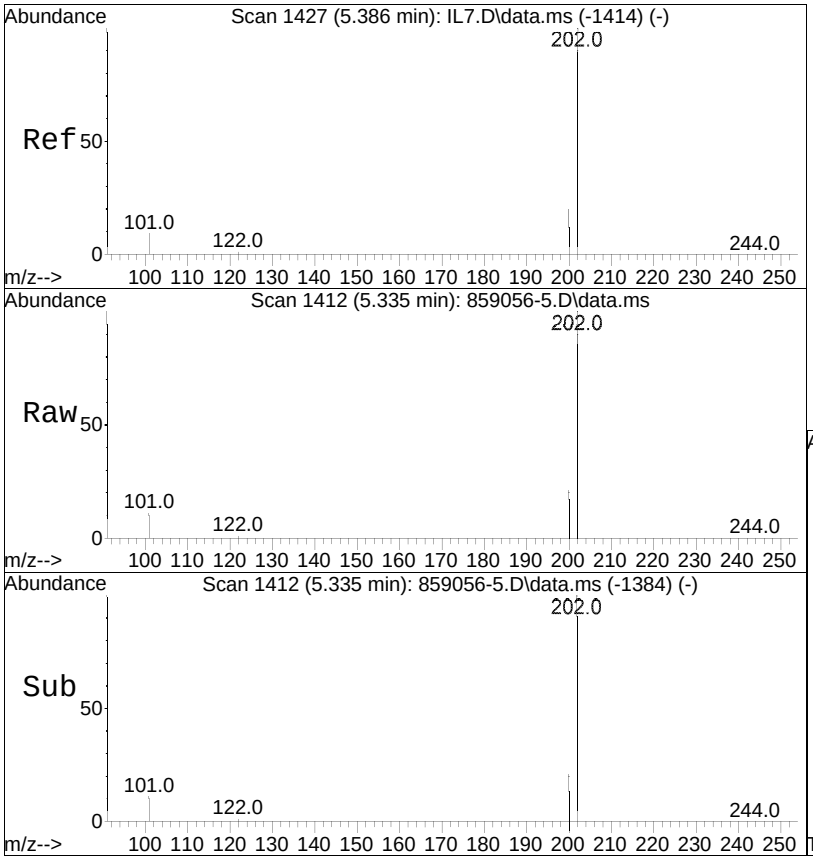


#28
Anthracene
Concen: 4887.38 ng/ml
RT: 4.691 min Scan# 1198
Delta R.T. -0.001 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:178 Resp: 176079

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.4

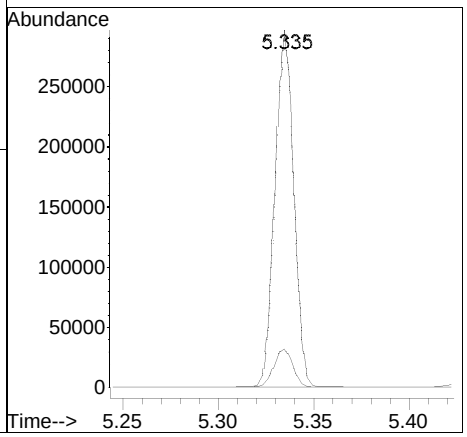


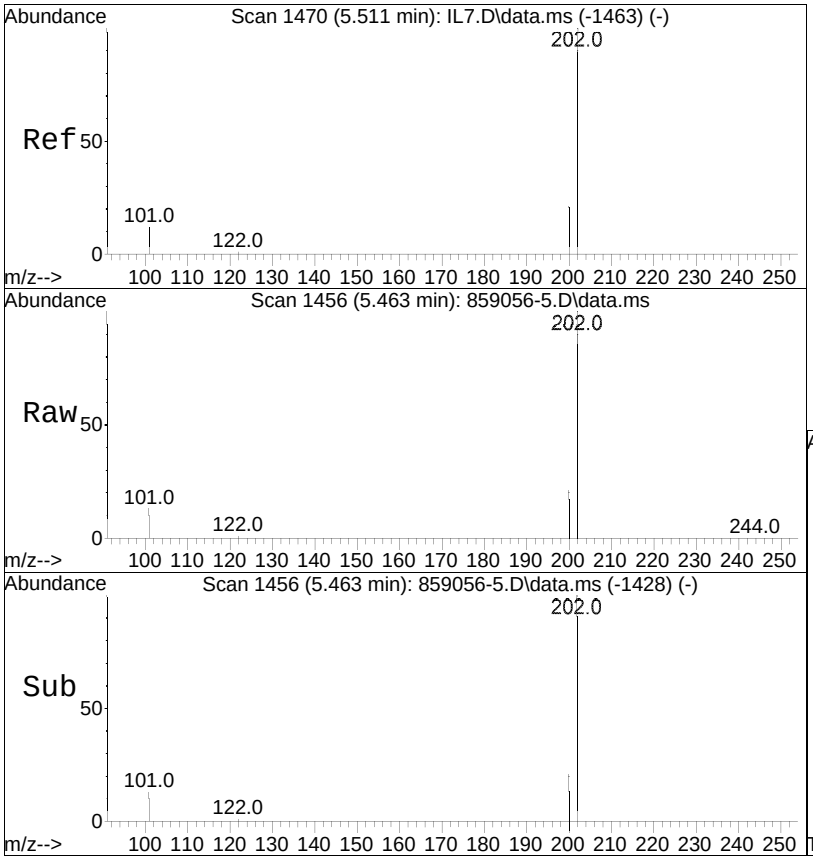


#29
Fluoranthene
Concen: 4731.01 ng/ml
RT: 5.335 min Scan# 1412
Delta R.T. 0.002 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:202 Resp: 200239

Ion	Ratio	Lower	Upper
202	100		
101	11.2	7.8	11.8

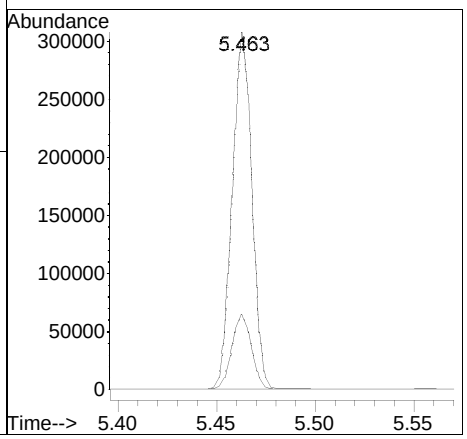


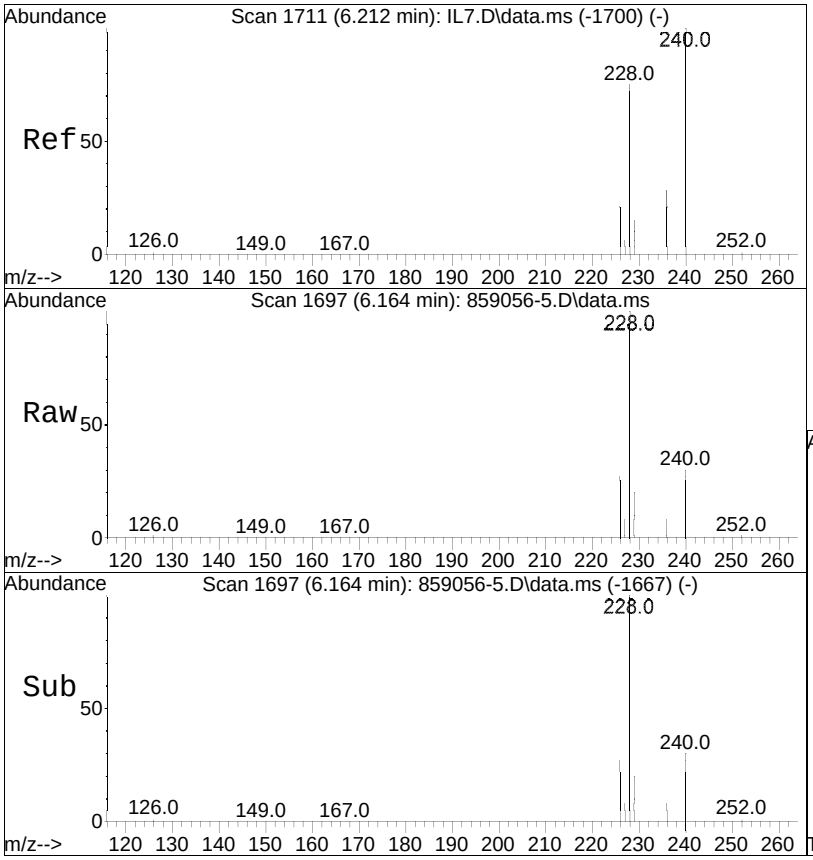


#30
Pyrene
Concen: 4735.68 ng/ml
RT: 5.463 min Scan# 1456
Delta R.T. 0.002 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:202 Resp: 209996

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4

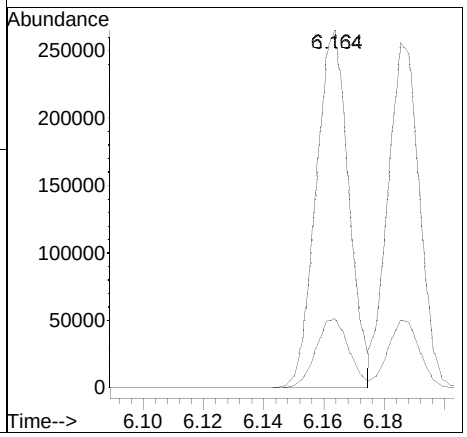


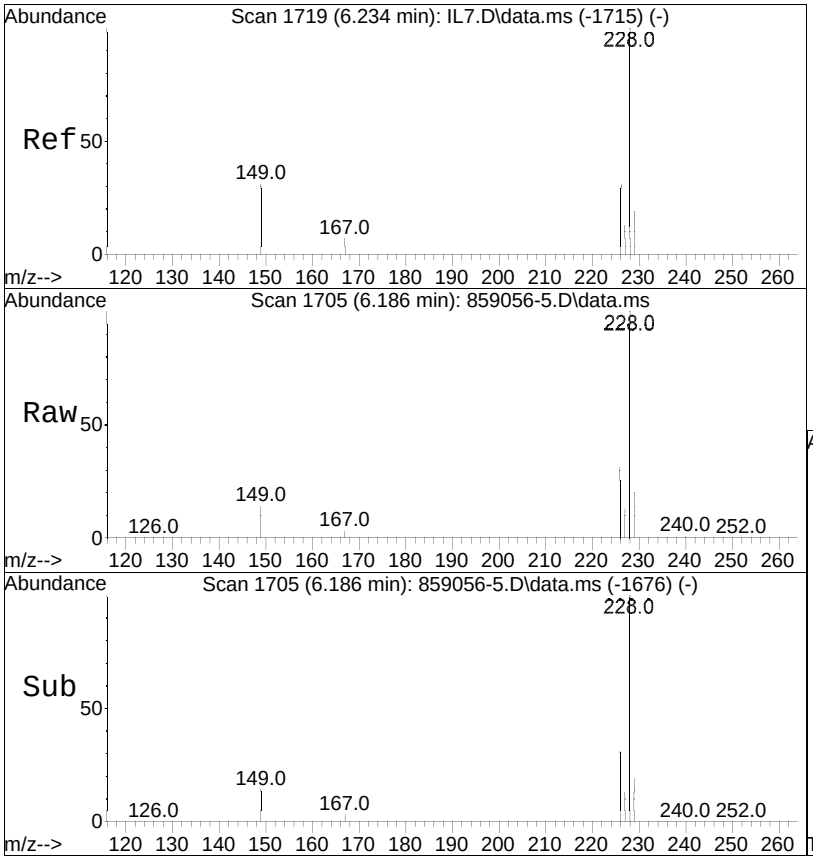


#33
Benzo[a]anthracene
Concen: 5032.88 ng/ml
RT: 6.164 min Scan# 1697
Delta R.T. 0.002 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:228 Resp: 200828

Ion	Ratio	Lower	Upper
228	100		
229	19.5	15.6	23.4

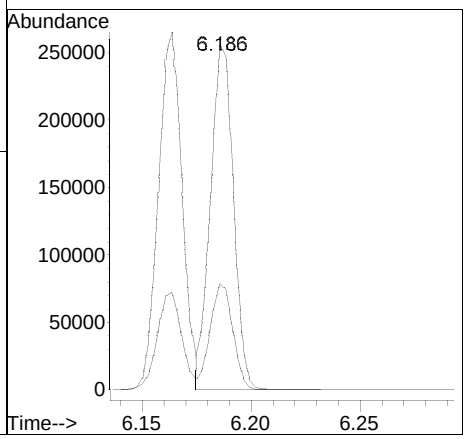


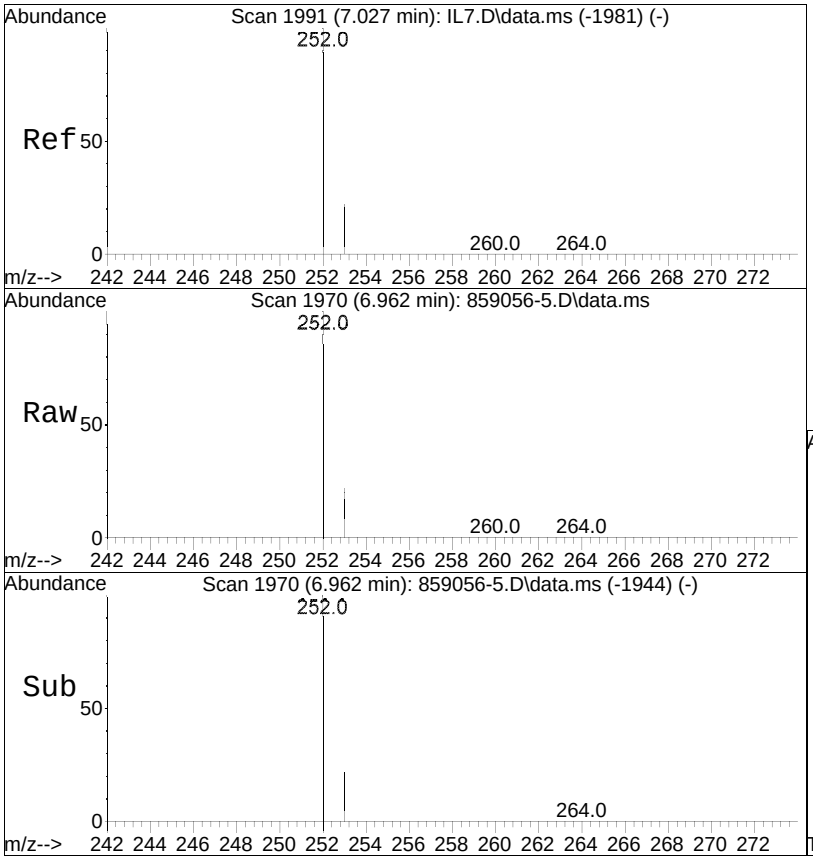


#35
Chrysene
Concen: 4603.10 ng/ml
RT: 6.186 min Scan# 1705
Delta R.T. -0.001 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:228 Resp: 186417

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.2	36.2

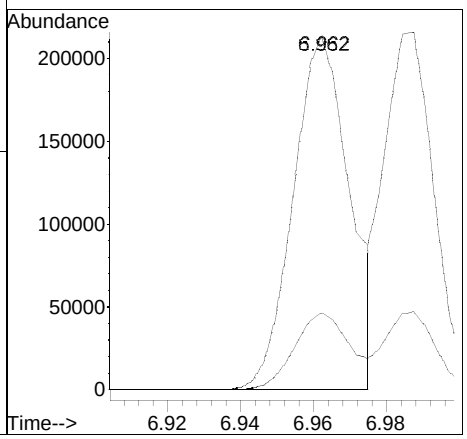


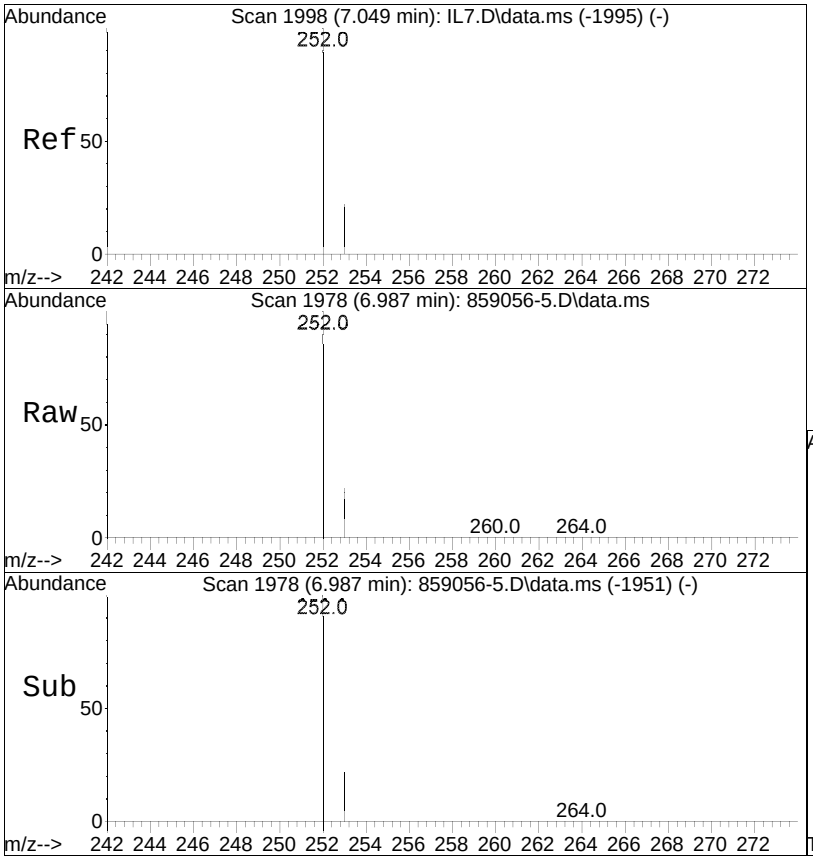


#38
Benzo[b]fluoranthene
Concen: 5422.14 ng/ml
RT: 6.962 min Scan# 1970
Delta R.T. 0.002 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:252 Resp: 229997

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8

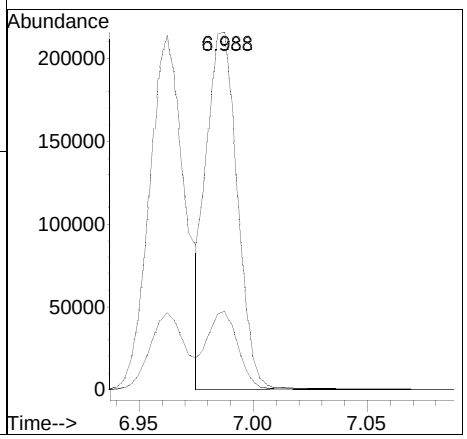


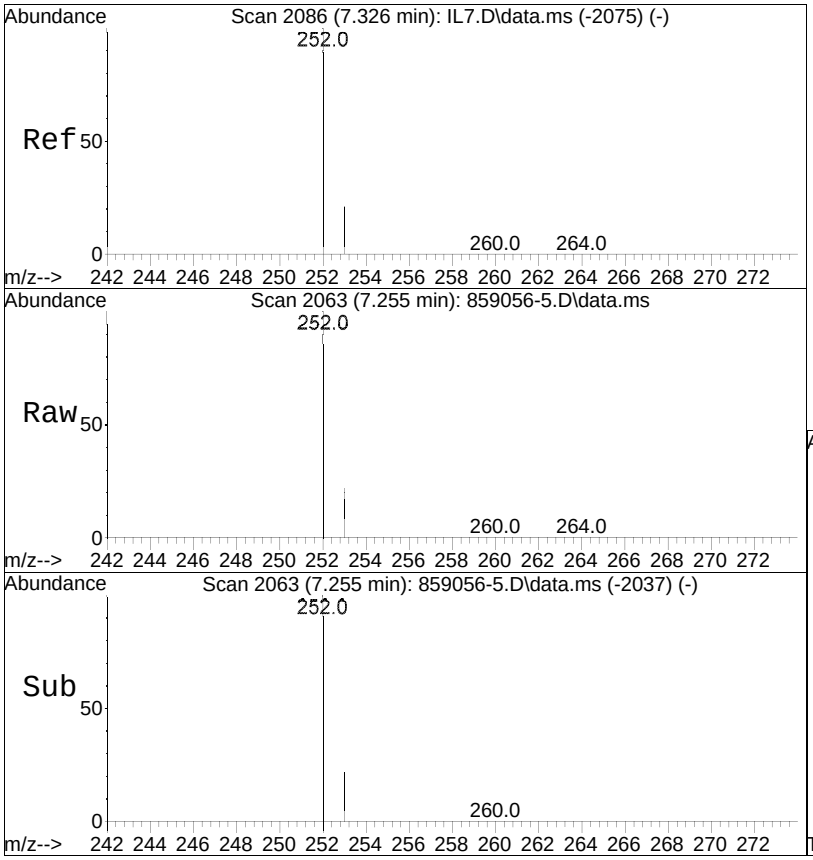


#39
Benzo[k]fluoranthene
Concen: 4820.56 ng/ml
RT: 6.987 min Scan# 1978
Delta R.T. 0.005 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:252 Resp: 202871

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3

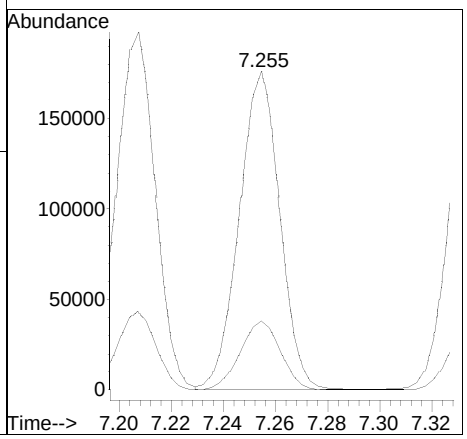


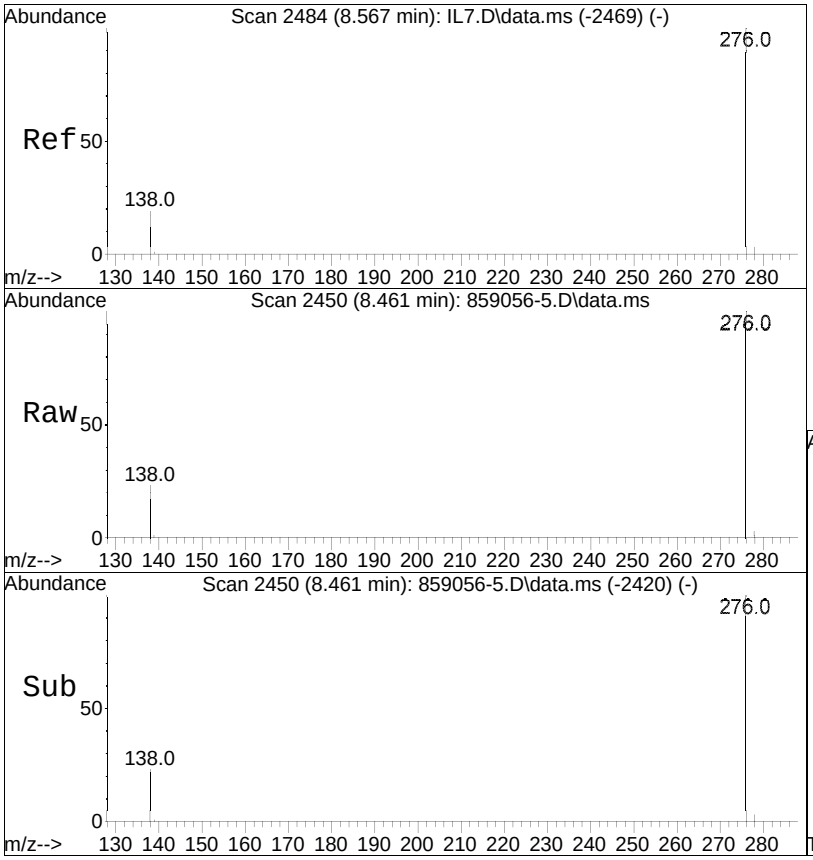


#40
Benzo[a]pyrene
Concen: 5058.80 ng/ml
RT: 7.255 min Scan# 2063
Delta R.T. 0.002 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:252 Resp: 188104

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8

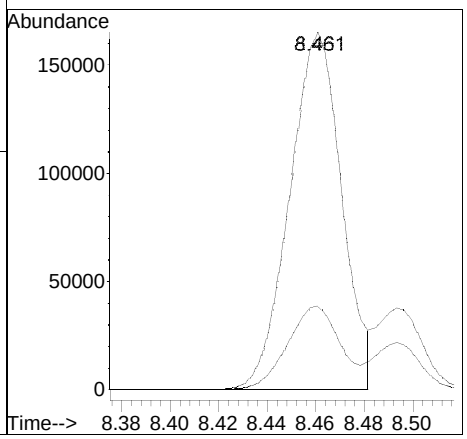


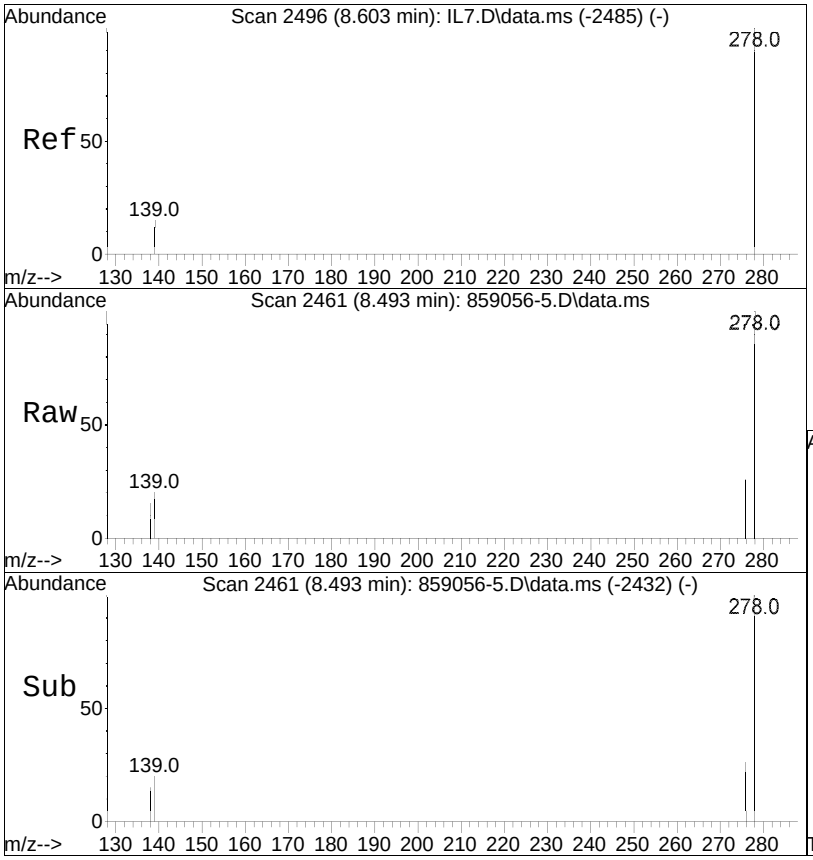


#41
Indeno[1,2,3-cd]pyrene
Concen: 6313.70 ng/ml
RT: 8.461 min Scan# 2450
Delta R.T. 0.008 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:276 Resp: 244363

Ion	Ratio	Lower	Upper
276	100		
138	23.8	14.5	21.7#

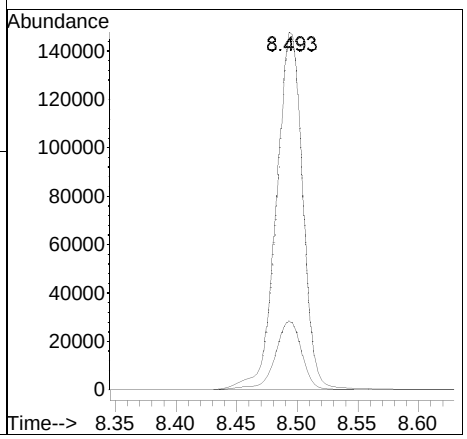


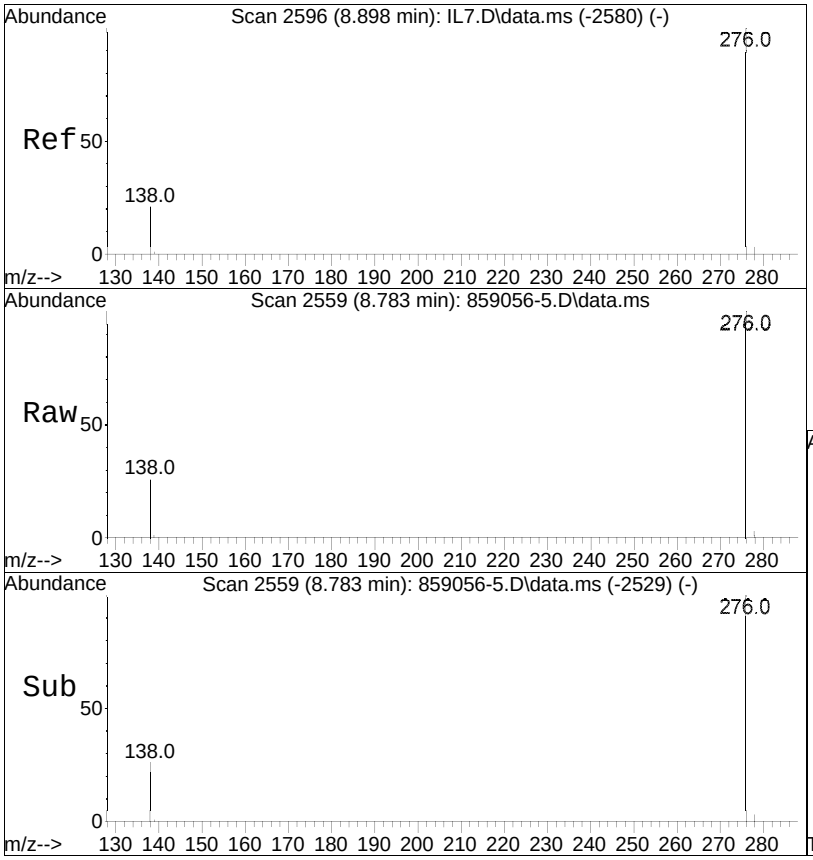


#42
Dibenzo[a,h]anthracene
Concen: 5899.15 ng/ml
RT: 8.493 min Scan# 2461
Delta R.T. 0.005 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:278 Resp: 220868

Ion	Ratio	Lower	Upper
278	100		
139	19.5	13.0	19.4#

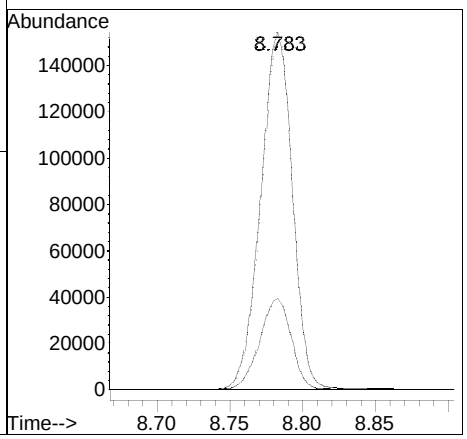




#43
Benzo[g,h,i]perylene
Concen: 5505.10 ng/ml
RT: 8.783 min Scan# 2559
Delta R.T. 0.008 min
Lab File: 859056-5.D
Acq: 07 Dec 2023 08:25 pm

Tgt Ion:276 Resp: 230437

Ion	Ratio	Lower	Upper
276	100		
138	25.6	16.5	24.7#



Manual Integration Report

Data Path	: I:\8270SIM\SV125\231207bLVQ	Method	: SIM-LVI_231026_sv125.M
Data File	: 859056-5.D	Operator	: SV125:dv
Date Inj'd	: 12/7/2023 8:25 pm	Instrument	: SV125
Sample	: WG1859056-5,32,,ah	Quant Date	: 12/7/2023 8:48 pm

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

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 08 2023, 09:46 am

Work Group: WG1859056 for Department: 2 Organic Preparation

Created: 02-DEC-23 Due: Operator: DDG

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2370783-01	MW-1S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-02	MW-2S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-03	MW-3S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-04	MW-4D	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-05	MW-5S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-06	MW-6D	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-07	MW-7S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-08	MW-8S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-09	DUP	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2370783-11	EB	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1207	S0	Amber-A.25
L2371024-04	TW-2	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1207	1207	3D	Amber-A.25
L2371024-05	TW-4	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1207	1207	3D	Amber-A.25
L2371128-07	MW5S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
L2371128-08	MW5I	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
L2371128-11	MW8	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
L2371128-12	MW9S	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
L2371128-13	MW9I	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
L2371128-14	MW10	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
L2371128-15	MW11	C	NYTCL-8270-SIM-LVI	WATER	DONE	U	1206	1208	S0	Amber-A.25
WG1859056-1	Laboratory Method Bl	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1859056-2	Laboratory Control S	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1859056-3	LCS Duplicate	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1859056-4	Matrix Spike	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1859056-5	Matrix Spike Duplica	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1859056-6	Matrix Spike	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				
WG1859056-7	Matrix Spike Duplica	S	NYTCL-8270-SIM-LVI	WATER	DONE	U				

Comments:

WG1859056-3	WG1859056-2
WG1859056-4	L2370783-04
WG1859056-5	L2370783-04
WG1859056-6	L2371128-08
WG1859056-7	L2371128-08

Analysis log File

Total Files Reported in Log : 17
Log Generated From Directory: I:\8270SIM\SV128\230831aLVIical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPPfast.M	TUNE	WG1823727,,ical	8/31/2023 9:28 am
2	IL10.D	fast-SIM-LVI	IL10,32,, 20.0 Lot#1018	WG1823727,,ical	8/31/2023 9:45 am
3	IL9.D	fast-SIM-LVI	IL9,32,, 10.0 Lot#10227	WG1823727,,ical	8/31/2023 10:01 am
4	IL8.D	fast-SIM-LVI	IL8,32,, 5.0 Lot#10228	WG1823727,,ical	8/31/2023 10:17 am
5	IL7.D	fast-SIM-LVI	IL7,32,, 1.0 Lot#10229	WG1823727,,ical	8/31/2023 10:34 am
6	IL6.D	fast-SIM-LVI	IL6,32,, 0.25 Lot#10230	WG1823727,,ical	8/31/2023 10:50 am
7	IL5.D	fast-SIM-LVI	IL5,32,, 0.1 Lot#10231	WG1823727,,ical	8/31/2023 11:06 am
8	IL4.D	fast-SIM-LVI	IL4,32,, 0.05 Lot#10232	WG1823727,,ical	8/31/2023 11:23 am
9	IL3.D	fast-SIM-LVI	ot#10233		8/31/2023 11:39 am
10	IL2.D	fast-SIM-LVI	IL2,32,, 0.01 Lot#10234	WG1823727,,ical	8/31/2023 11:56 am
11	IL1.D	fast-SIM-LVI	IL1,32,, 0.005 Lot#1023	WG1823727,,ical	8/31/2023 12:12 pm
12	ICV.D	fast-SIM-LVI	ot#10193		8/31/2023 12:29 pm
13	insblk.D	fast-SIM-LVI			8/31/2023 12:45 pm
14	TUNEa.D	DFTPPfast.M	TUNEa	WG1823727,,ical	9/5/2023 8:49 am
15	IL3a.D	fast-SIM-LVI	IL3,32,, 0.025 Lot#1023	WG1823727,,ical	9/5/2023 9:24 am
16	ICVa.D	fast-SIM-LVI	CQICV,32,, 1.0 Lot#1019	WG1823727,,ical	9/5/2023 11:08 am
17	insblka.D	fast-SIM-LVI			9/5/2023 11:25 am

Printed: 09/06/23 Page: 1

Analysis log File

Total Files Reported in Log : 13
Log Generated From Directory: I:\8270SIM\SV125\231026aLVIical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPP(2.0).M	tune	WG1845005,,ical	10/26/2023 10:06 am
2	IL10.D	fast-SIM-LVI	IL10,32,, 20.0 Lot#1018	WG1845005,,ical	10/26/2023 1:22 pm
3	IL9.D	fast-SIM-LVI	IL9,32,,10.0 Lot#10227	WG1845005,,ical	10/26/2023 1:38 pm
4	IL8.D	fast-SIM-LVI	IL8,32,,5.0 Lot#10228	WG1845005,,ical	10/26/2023 1:55 pm
5	IL7.D	fast-SIM-LVI	IL7,32,,1.0 Lot#10229	WG1845005,,ical	10/26/2023 2:11 pm
6	IL6.D	fast-SIM-LVI	IL6,32,,0.25 Lot#10230	WG1845005,,ical	10/26/2023 2:27 pm
7	IL5.D	fast-SIM-LVI	IL5,32,,0.1 Lot#10231	WG1845005,,ical	10/26/2023 2:43 pm
8	IL4.D	fast-SIM-LVI	IL4,32,,0.05 Lot#10232	WG1845005,,ical	10/26/2023 2:59 pm
9	IL3.D	fast-SIM-LVI	IL3,32,,0.025 Lot#10233	WG1845005,,ical	10/26/2023 3:15 pm
10	IL2.D	fast-SIM-LVI	IL2,32,,0.01 Lot#10234	WG1845005,,ical	10/26/2023 3:31 pm
11	IL1.D	fast-SIM-LVI	IL1,32,,0.005 Lot#10235	WG1845005,,ical	10/26/2023 3:47 pm
12	ICV.D	fast-SIM-LVI	CQICV,32,,1.0 #10193	WG1845005,,ical	10/26/2023 4:04 pm
13	insblk.D	fast-SIM-LVI			10/26/2023 4:20 pm

	Type	Method File	Vial	Name	Data File	Comment
	Sample	DFTPPfast.M	48	wg-1,32,, dftpp sv128	tunetest1	wg,,ical20340
	Sample	DFTPPfast.M	48	wg-1,32,, dftpp sv128	tunetest2	wg,,ical20340
	Sample	DFTPPfast.M	48	wg-1,32,, dftpp sv128	tunetest3	wg,,ical20340
	Sample	DFTPPfast.M	48	wg-1,32,, dftpp sv128	deg1204	wg,,ical20340
	Sample	fast-SIM-LVI.M	49	wg-3,32,,ICV 10193 (1129)	ccv1204	wg,,ical20340
	Sample	fast-SIM-LVI.M	50	instrument blank	blk1204	wg,,ical20340
	Keyword					
	Sample	fast-SIM-LVI.M	1	WG1859201-1,32,,ah	859201-1	WG1859432,WG1859201,ical20340
	Sample	fast-SIM-LVI.M	2	WG1859201-2,32,,ah	859201-2	WG1859432,WG1859201,ical20340
	Sample	fast-SIM-LVI.M	3	Wg1859204-2,32,,ah	859204-2	WG1859432,wg1859204,ical20340
	Sample	fast-SIM-LVI.M	4	Wg1859204-3,32,,ah	859204-3	WG1859432,wg1859204,ical20340
	Sample	fast-SIM-LVI.M	5	Wg1859204-1,32,,ah	859204-1	WG1859432,wg1859204,ical20340
	Sample	fast-SIM-LVI.M	6	WG1858803-2,32,,ah	858803-2	WG1859432,WG1858803,ical20340
	Sample	fast-SIM-LVI.M	7	WG1858803-3,32,,ah	858803-3	WG1859432,WG1858803,ical20340
	Sample	fast-SIM-LVI.M	8	WG1858803-1,32,,ah	858803-1	WG1859432,WG1858803,ical20340
	Sample	fast-SIM-LVI.M	9	L2369536-01,32,,RV,ah	69536-01	WG1859432,WG1856217,ical20340
	Sample	fast-SIM-LVI.M	10	L2370397-03,32,,ah	70397-03	WG1859432,WG1858849,ical20340
	Sample	fast-SIM-LVI.M	11	L2370397-04,32,,ah	70397-04	WG1859432,wg1858849,ical20340
	Sample	fast-SIM-LVI.M	12	L2370397-06,32,,ah	70397-06	WG1859432,wg1858849,ical20340
	Sample	fast-SIM-LVI.M	13	L2370233-03,32,,ah	70233-03	WG1859432,wg1858413,ical20340
	Sample	fast-SIM-LVI.M	14	L2370402-01,32,,ah	70402-01	WG1859432,wg1858413,ical20340
	Sample	fast-SIM-LVI.M	15	L2370402-02,32,,ah	70402-02	WG1859432,wg1858413,ical20340
	Sample	fast-SIM-LVI.M	16	L2370402-03,32,,ah	70402-03	WG1859432,wg1858413,ical20340
	Sample	fast-SIM-LVI.M	17	L2370402-04,32,,ah	70402-04	WG1859432,wg1858413,ical20340
	Sample	fast-SIM-LVI.M	18	L2370402-05,32,,ah	70402-05	WG1859432,wg1858413,ical20340
	Sample	fast-SIM-LVI.M	19	L2370402-06,32,,ah	70402-06	WG1859432,wg1858413,ical20340
	Sample	fast-SIM-LVI.M	20	L2370402-07,32,,ah	70402-07	WG1859432,wg1858413,ical20340
	Sample	fast-SIM-LVI.M	21	L2370402-08,32,,ah	70402-08	WG1859432,wg1858413,ical20340
	Sample	fast-SIM-LVI.M	22	Wg1859048-2,32,,ah	859048-2	WG1859432,wg1859048,ical20340
	Sample	fast-SIM-LVI.M	23	Wg1859048-3,32,,ah	859048-3	WG1859432,wg1859048,ical20340
	Sample	fast-SIM-LVI.M	24	Wg1859048-1,32,,ah	859048-1	WG1859432,wg1859048,ical20340
	Sample	fast-SIM-LVI.M	25	L2370187-01,32,,ah	70187-01	WG1859432,wg1859048,ical20340
	Sample	fast-SIM-LVI.M	26	L2370187-02,32,,ah	70187-02	WG1859432,wg1859048,ical20340
	Sample	fast-SIM-LVI.M	27	L2370187-04,32,,ah	70187-04	WG1859432,wg1859048,ical20340
	Sample	fast-SIM-LVI.M	28	L2370281-01,32,,ah	70281-01	WG1859432,wg1859048,ical20340
	Sample	fast-SIM-LVI.M	29	L2370481-01,32,,ah	70481-01	WG1859432,wg1858744,ical20340
	Sample	fast-SIM-LVI.M	30	Wg1859056-2,32,,ah	859056-2	WG1859432,wg1859056,ical20340
	Sample	fast-SIM-LVI.M	31	Wg1859056-3,32,,ah	859056-3	WG1859432,wg1859056,ical20340
	Sample	fast-SIM-LVI.M	32	Wg1859056-1,32,,ah	859056-1	WG1859432,wg1859056,ical20340

	Type	Method File	Vial	Name	Data File	Comment
	Sample	fast-SIM-LVI.M	33	L2371024-04,32,,r3d,ah	71024-04	WG1859432,wg1859056,ical20340
	Sample	fast-SIM-LVI.M	34	L2371024-05,32,,r3d,ah	71024-05	WG1859432,wg1859056,ical20340
	Sample	fast-SIM-LVI.M	35	L2371024-06,32,,r3d,ah	71024-06	WG1859432,wg1859056,ical20340
	Sample	fast-SIM-LVI.M	36	L2370781-15,32,,ah	70781-15	WG1859432,wg1858803,ical20340
	Sample	fast-SIM-LVI.M	37	L2370781-16,32,,ah	70781-16	WG1859432,wg1858803,ical20340
	Sample	fast-SIM-LVI.M	38	L2370781-17,32,,ah	70781-17	WG1859432,wg1858803,ical20340
	Sample	fast-SIM-LVI.M	39	L2370781-18,32,,ah	70781-18	WG1859432,wg1858803,ical20340
	Sample	fast-SIM-LVI.M	40	L2370580-01,32,,ah	70580-01	WG1859432,wg1859204,ical20340

	Type	Method File	Vial	Name	Data File	Comment
	Sample	DFTPP(2.0).M	48	wg-1,32,,dftpp sv125	deg1206	wg,,ical20477
	Sample	fast-SIM-LVI.M	49	wg-3,32,,ICV #10193 (1129)	ccv1206	wg,,ical20477
	Sample	fast-SIM-LVI.M	50	instrument blank	blank1206	wg,,ical20477
	Keyword					
	Sample	fast-SIM-LVI.M	1	WG1860164-1,32,,ah	860164-1	WG1860343,WG1860164,ical20477
	Sample	fast-SIM-LVI.M	2	WG1860164-2,32,,ah	860164-2	WG1860343,WG1860164,ical20477
	Sample	fast-SIM-LVI.M	3	WG1860164-3,32,,ah	860164-3	WG1860343,WG1860164,ical20477
	Sample	fast-SIM-LVI.M	4	L2369422-17,32,,ah	69422-17	WG1860343,WG1860164,ical20477
	Sample	fast-SIM-LVI.M	5	L2369422-19,32,,ah	69422-19	WG1860343,WG1860164,ical20477
	Sample	fast-SIM-LVI.M	6	L2369423-14,32,,ah	69423-14	WG1860343,WG1860164,ical20477
	Sample	fast-SIM-LVI.M	7	WG1859738-2,32,,ah	859738-2	WG1860343,WG1859738,ical20477
	Sample	fast-SIM-LVI.M	8	WG1859738-3,32,,ah	859738-3	WG1860343,WG1859738,ical20477
	Sample	fast-SIM-LVI.M	9	WG1859738-1,32,,ah	859738-1	WG1860343,WG1859738,ical20477
	Sample	fast-SIM-LVI.M	10	L2367425-03,32,,RE,jjw	67425-03	WG1860343,WG1859738,ical20477
	Sample	fast-SIM-LVI.M	11	L2367425-03,32,,RE,jjw	67425-03a	WG1860343,WG1859738,ical20477
	Sample	fast-SIM-LVI.M	12	L2367425-01,32,,ah	67425-01	WG1860343,WG1859738,ical20477
	Sample	fast-SIM-LVI.M	13	L2370396-02,32,,RV,ah	70396-02	WG1860343,WG1858849,ical20477
	Sample	fast-SIM-LVI.M	14	L2369423-12,32,,RV,ah	69423-12	WG1860343,wg1857337,ical20477
	Sample	fast-SIM-LVI.M	15	L2370781-18,32,,ah	70781-18	WG1860343,wg1858803,ical20477
	Sample	fast-SIM-LVI.M	16	WG1859056-1,32,,RV,ah	859056-1	WG1860343,WG1859056,ical20477
	Sample	fast-SIM-LVI.M	17	WG1859056-2,32,2,RV,ah	859056-2	WG1860343,WG1859056,ical20477
	Sample	fast-SIM-LVI.M	18	WG1859056-3,32,2,RV,ah	859056-3	WG1860343,WG1859056,ical20477
	Sample	fast-SIM-LVI.M	19	L2370580-01,32,,ah	70580-01	WG1860343,wg1859204,ical20477
	Sample	fast-SIM-LVI.M	20	Wg1859056-2,32,,RV,ah	59056-2	WG1860343,wg1859056,ical20477
	Sample	fast-SIM-LVI.M	21	Wg1859056-3,32,,RV,ah	59056-3	WG1860343,wg1859056,ical20477
	Sample	fast-SIM-LVI.M	22	L2370781-10,32,,ah	70781-10	WG1860343,wg1858803,ical20477
	Sample	fast-SIM-LVI.M	23	L2370387-02,32,,RV(con),jjw	70387-02	WG1860343,WG1859024,ical20477
	Sample	fast-SIM-LVI.M	24	L2370402-03d,32,5,RV,jjw	402-03d1	WG1860343,WG1858413,ical20477
	Sample	fast-SIM-LVI.M	25	WG1860437-2,32,,jjw	860437-2	WG1860343,WG1860437,ical20477
	Sample	fast-SIM-LVI.M	26	WG1860437-3,32,,jjw	860437-3	WG1860343,WG1860437,ical20477
	Sample	fast-SIM-LVI.M	27	WG1860437-1,32,,jjw	860437-1	WG1860343,WG1860437,ical20477
	Sample	fast-SIM-LVI.M	28	L2370387-11,32,,RE,jjw	70387-11	WG1860343,WG1860437,ical20477
	Sample	fast-SIM-LVI.M	29	L2370781-11,32,,ah	70781-11	WG1860343,wg1858803,ical20477
	Sample	fast-SIM-LVI.M	30	L2370781-12,32,,ah	70781-12	WG1860343,wg1858803,ical20477
	Sample	fast-SIM-LVI.M	31	L2370781-13,32,,ah	70781-13	WG1860343,wg1858803,ical20477
	Sample	fast-SIM-LVI.M	32	L2370781-14,32,,ah	70781-14	WG1860343,wg1858803,ical20477
	Sample	fast-SIM-LVI.M	33	Wg1858803-4,32,,ah	858803-4	WG1860343,wg1858803,ical20477
	Sample	fast-SIM-LVI.M	34	Wg1858803-5,32,,ah	858803-5	WG1860343,wg1858803,ical20477
	Sample	fast-SIM-LVI.M	35	L2370781-02,32,,ah	70781-02	WG1860343,wg1858803,ical20477

	Type	Method File	Vial	Name	Data File	Comment
	Sample	fast-SIM-LVI.M	36	L2370781-03,32,,ah	70781-03	WG1860343,wg1858803,ical20477
	Sample	fast-SIM-LVI.M	37	L2370781-04,32,,ah	70781-04	WG1860343,wg1858803,ical20477
	Sample	fast-SIM-LVI.M	38	L2370781-05,32,,ah	70781-05	WG1860343,wg1858803,ical20477
	Sample	fast-SIM-LVI.M	39	L2370781-06,32,,ah	70781-06	WG1860343,wg1858803,ical20477
	Sample	fast-SIM-LVI.M	40	L2370781-07,32,,ah	70781-07	WG1860343,wg1858803,ical20477

Dep.: GCMS
Inst: SV125
Date: **12/07/23**
Run: **B**

Method
GC: 8270 SIMLVI

Seq: WG1861049

Vial	Data File	Sample	CCAL	notes	initials
48	deg1207b	deg1207b			
48	deg1207c	deg1207c			
49	ccv1207b	ccv1207b			
50	blank1207b	blank1207b			
1	860261-1	WG1860261-1,32,,ah			
2	860261-2	WG1860261-2,32,,ah			
3	860261-3	WG1860261-3,32,,ah			
4	71024-06	L2371024-06,32,,R3D,ah			
5	859272-2	WG1859272-2,32,,ah			
6	859272-3	WG1859272-3,32,,ah			
7	859272-1	WG1859272-1,32,,ah			
8	60261-2r	WG1860261-2,32,,RV,DV			
9	70774-03	L2370774-03,32,,ah			
10	860585-2	WG1860585-2,32,,ah			
11	860585-3	WG1860585-3,32,,ah			
12	860585-1	WG1860585-1,32,,ah			
13	70387-02	L2370387-02,32,,ah			
14	67425-03	L2367425-03,32,,ah			
15	67425-09	L2367425-09,32,,ah			
16	67498-06	L2367498-06,32,,ah			
17	860261-8	WG1860261-8,32,,ah			
18	860261-9	WG1860261-9,32,,ah			
19	67498-16	L2367498-16,32,,ah			
20	71040-01	L2371040-01,32,,ah			
21	71040-02	L2371040-02,32,,ah			
22	71040-06	L2371040-06,32,,ah			
23	70781-08	L2370781-08,32,,ah			
24	70781-09	L2370781-09,32,,ah			
25	70781-10	L2370781-10,32,,ah			
26	70783-01	L2370783-01,32,,ah			
27	70783-02	L2370783-02,32,,ah			
28	70783-03	L2370783-03,32,,ah			
29	70783-04	L2370783-04,32,,ah			
30	859056-4	WG1859056-4,32,,ah			
31	859056-5	WG1859056-5,32,,ah			
32	70783-05	L2370783-05,32,,ah			
33	70783-06	L2370783-06,32,,ah			
34	70783-07	L2370783-07,32,,ah			
35	70783-08	L2370783-08,32,,ah			
36	70783-09	L2370783-09,32,,ah			
37	70783-11	L2370783-11,32,,ah			
38	845-02d1	L2370845-02d,32,2,R3E,RV,ah			

Dep.: GCMS
Inst: SV125
Date: **12/07/23**
Run: **B**

Method
GC: 8270 SIMLVI

Seq: WG1861049

Vial	Data File	Sample	CCAL	notes	initials
39	859209-2	Wg1859209-2,32,,ah			
40	859209-3	Wg1859209-3,32,,ah			
41	859209-1	Wg1859209-1,32,,ah			

ORGANIC ELN REPORT

Workgroup: WG1859056

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EH486
Surrogate Type: ABN **Lot #:** 10333-u(05/22/24)
Spike Type: ABN-SIM **Lot #:** 10329T-033124,10334-i(05/2/2
Spike Verify by: SAA
Lims Spikelot: 8270-LVI

Additional Reagents/Stds

H2SO4	A111123
Na2SO4	23F1561004
NaOH	10NNaOH112523

Conc.Method: Buchi
Solvent Type: DCM
Lot #: eh486

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2370783-01 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:16	Mark Gillespie	1	H
L2370783-02 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:16	Mark Gillespie	1	H
L2370783-03 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:17	Mark Gillespie	1	H
L2370783-04 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:17	Mark Gillespie	1	H
L2370783-05 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:18	Mark Gillespie	1	H
L2370783-06 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:17	Mark Gillespie	1	H
L2370783-07 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:18	Mark Gillespie	1	H

Reported: 08-DEC-23 09:46 AM

ORGANIC ELN REPORT

Workgroup: WG1859056

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2370783-08 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:17	Mark Gillespie	1	H
L2370783-09 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 12:35	Mark Gillespie	1	H
L2370783-11 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 12:35	Mark Gillespie	1	H
L2371024-04 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 09:34	Mark Gillespie	1	H
L2371024-05 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 09:34	Mark Gillespie	1	H
L2371024-06	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 09:34	Mark Gillespie	1	H
L2371128-07 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:17	Mark Gillespie	1	H
L2371128-08 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 09:34	Mark Gillespie	1	H
L2371128-11 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 12:35	Mark Gillespie	1	H
L2371128-12 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:16	Mark Gillespie	1	H

Reported: 08-DEC-23 09:46 AM

ORGANIC ELN REPORT

Workgroup: WG1859056

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2371128-13 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:17	Mark Gillespie	1	H
L2371128-14 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 09:34	Mark Gillespie	1	H
L2371128-15 WATER	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1		12/03/23 11:17	Mark Gillespie	1	H
WG1859056-1 BLANK	12/02/23 19:56 **WG1859049**	Daniel Gyedu	275	<2,>12	1		12/03/23 09:33	Mark Gillespie	1	H
WG1859056-2 LCS	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1	1	12/03/23 09:33	Mark Gillespie	1	H
WG1859056-3 LCSD	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1	1	12/03/23 09:33	Mark Gillespie	1	H
WG1859056-4 MS	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1	1	12/03/23 09:33	Mark Gillespie	1	H
WG1859056-5 MSD	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1	1	12/03/23 09:33	Mark Gillespie	1	H
WG1859056-6 MS	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1	1	12/03/23 09:33	Mark Gillespie	1	H
WG1859056-7 MSD	12/02/23 19:56	Daniel Gyedu	275	<2,>12	1	1	12/03/23 09:33	Mark Gillespie	1	H

GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor QC Summary

Surrogate Recovery Summary
Form 2
PCBs

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIX

Lab Number: L2370783
Project Number: 20116
Matrix: Water

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-1S (L2370783-01)	62	66	69	69			0
MW-2S (L2370783-02)	68	71	74	76			0
MW-3S (L2370783-03)	67	72	71	73			0
MW-4D (L2370783-04)	69	75	74	76			0
MW-5S (L2370783-05)	68	73	72	79			0
MW-6D (L2370783-06)	64	71	68	69			0
MW-7S (L2370783-07)	58	62	67	68			0
MW-8S (L2370783-08)	64	76	63	71			0
DUP (L2370783-09)	61	63	67	70			0
EB (L2370783-11)	61	66	64	65			0
WG1859857-1BLANK	54	65	63	73			0
WG1859857-2LCS	58	63	67	71			0
WG1859857-3LCSD	59	65	70	73			0
MW-4DMS	69	70	74	77			0
MW-4DMSD	59	66	61	65			0
WG1860227-1BLANK	65	77	66	74			0
WG1860227-2LCS	62	73	68	73			0
WG1860227-3LCSD	68	70	69	73			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1859857-2 **Analysis Date** : 12/06/23 12:16	**File ID**	: P2231206a-08
LCSD Sample ID	: WG1859857-3 **Analysis Date** : 12/06/23 12:26	**File ID**	: P2231206a-09

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	1.78	1.13	63	1.78	1.24	69	9	40-140	50
Aroclor 1260	1.78	1.15	64	1.78	1.22	68	6	40-140	50

Laboratory Control Sample Summary
Form 3
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1860227-2 **Analysis Date** : 12/06/23 14:28	**File ID**	: P2231206a-22
LCSD Sample ID	: WG1860227-3 **Analysis Date** : 12/06/23 14:37	**File ID**	: P2231206a-23

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	1.78	1.12	63	1.78	1.18	66	5	40-140	50
Aroclor 1260	1.78	1.09	61	1.78	1.08	61	1	40-140	50

Matrix Spike Sample Summary
Form 3
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2370783-04	**Analysis Date**	: 12/06/23 13:03
Matrix Spike	: WG1859857-4	**MS Analysis Date**	: 12/06/23 13:13
Matrix Spike Dup	: WG1859857-5	**MSD Analysis Date**	: 12/06/23 13:22

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	ND	1.78	1.21	68	1.78	1.11	62	9	40-140	50
Aroclor 1260	ND	1.78	1.15	64	1.78	1.05	59	9	40-140	50

Method Blank Summary
Form 4
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1859857-1	**Lab File ID**	: P2231206a-07
Matrix	: WATER	**Extraction Date**	: 12/05/23
Sulfur Cleanup	: Y		
Analysis Date (1)	: 12/06/23 12:07	**Analysis Date (2)**	: 12/06/23 12:07
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1859857-2LCS	WG1859857-2	12/06/23 12:16	12/06/23 12:16
WG1859857-3LCSD	WG1859857-3	12/06/23 12:26	12/06/23 12:26
MW-1S	L2370783-01	12/06/23 12:35	12/06/23 12:35
MW-2S	L2370783-02	12/06/23 12:45	12/06/23 12:45
MW-3S	L2370783-03	12/06/23 12:54	12/06/23 12:54
MW-4D	L2370783-04	12/06/23 13:03	12/06/23 13:03
MW-4DMS	WG1859857-4	12/06/23 13:13	12/06/23 13:13
MW-4DMSD	WG1859857-5	12/06/23 13:22	12/06/23 13:22
MW-5S	L2370783-05	12/06/23 13:32	12/06/23 13:32
MW-6D	L2370783-06	12/06/23 13:41	12/06/23 13:41
MW-7S	L2370783-07	12/06/23 13:50	12/06/23 13:50
DUP	L2370783-09	12/06/23 14:00	12/06/23 14:00
EB	L2370783-11	12/06/23 14:09	12/06/23 14:09

Method Blank Summary
Form 4
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1860227-1	**Lab File ID**	: P2231206a-21
Matrix	: WATER	**Extraction Date**	: 12/06/23
Sulfur Cleanup	: Y		
Analysis Date (1)	: 12/06/23 14:19	**Analysis Date (2)**	: 12/06/23 14:19
Instrument ID (1)	: PEST2	**Instrument ID (2)**	: PEST2

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1860227-2LCS	WG1860227-2	12/06/23 14:28	12/06/23 14:28
WG1860227-3LCSD	WG1860227-3	12/06/23 14:37	12/06/23 14:37
MW-8S	L2370783-08	12/06/23 14:47	12/06/23 14:47

Analytical Sequence
Form 8b
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST2	**Initial Calib. Date(s)**	: 11/09/23 11/09/23

Client ID	Lab ID	Date/Time Analyzed
1242/1268 L4 (250ug/L)	R1762204-1	11/09/23 13:05
1232/1262 L4 (250ug/L)	R1762204-2	11/09/23 13:14
1248 L4 (250ug/L)	R1762204-8	11/09/23 13:23
1221/1254 L4 (250ug/L)	R1762204-3	11/09/23 13:32
1016/1260 L1 (10ug/L)	R1762204-4	11/09/23 13:41
1016/1260 L2 (50ug/L)	R1762204-5	11/09/23 13:50
1016/1260 L3 (100ug/L)	R1762204-6	11/09/23 13:58
1016/1260 L4 (250ug/L)	R1762204-7	11/09/23 14:07
1016/1260 L5 (500ug/L)	R1762204-15	11/09/23 14:15
1016/1260 L6 (1000ug/L)	R1762204-9	11/09/23 14:24
R1762204-10 ICV	R1762204-10	11/09/23 14:33
R1762204-11 ICV	R1762204-11	11/09/23 14:42
R1762204-12 ICV	R1762204-12	11/09/23 14:51
R1762204-13 ICV	R1762204-13	11/09/23 15:00
R1762204-14 ICV	R1762204-14	11/09/23 15:09
WG1860406-1 CCAL	WG1860406-1	12/06/23 09:27
WG1859857-1 BLANK	WG1859857-1	12/06/23 12:07
WG1859857-2 LCS	WG1859857-2	12/06/23 12:16
WG1859857-3 LCSD	WG1859857-3	12/06/23 12:26
MW-1S	L2370783-01	12/06/23 12:35
MW-2S	L2370783-02	12/06/23 12:45
MW-3S	L2370783-03	12/06/23 12:54
MW-4D	L2370783-04	12/06/23 13:03
MW-4D MS	WG1859857-4	12/06/23 13:13
MW-4D MSD	WG1859857-5	12/06/23 13:22
MW-5S	L2370783-05	12/06/23 13:32
MW-6D	L2370783-06	12/06/23 13:41
MW-7S	L2370783-07	12/06/23 13:50
DUP	L2370783-09	12/06/23 14:00
EB	L2370783-11	12/06/23 14:09
WG1860227-1 BLANK	WG1860227-1	12/06/23 14:19
WG1860227-2 LCS	WG1860227-2	12/06/23 14:28
WG1860227-3 LCSD	WG1860227-3	12/06/23 14:37
MW-8S	L2370783-08	12/06/23 14:47

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14021-1
Page: 1

PCB - EPA 8082A (WATER)

Holding Time: 365 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.25	0.0156	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.25	0.0221	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.25	0.046	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.25	0.0362	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.25	0.0455	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.25	0.0168	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.25	0.0344	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.25	0.033	ug/l	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	0.25	0.0317	ug/l	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

PCB - EPA 8082A (SOIL)

Holding Time: 365 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	50	4.44	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	50	5.01	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	50	10.6	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	50	6.74	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	50	7.5	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	50	5.47	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	50	9.24	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	50	6.35	ug/kg	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	50	5.18	ug/kg	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	50	4.44	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Aroclor Sample Data

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 12:35
Sample Matrix	: WATER	**Date Extracted**	: 12/05/23
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2231206a-10	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 12:45
Sample Matrix	: WATER	**Date Extracted**	: 12/05/23
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2231206a-11	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 12:54
Sample Matrix	: WATER	**Date Extracted**	: 12/05/23
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2231206a-12	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:03
Sample Matrix	: WATER	**Date Extracted**	: 12/05/23
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2231206a-13	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:32
Sample Matrix	: WATER	**Date Extracted**	: 12/05/23
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2231206a-16	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:32
Sample Matrix	: WATER	**Date Extracted**	: 12/05/23
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2231206a-16	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:41
Sample Matrix	: WATER	**Date Extracted**	: 12/05/23
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2231206a-17	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:50
Sample Matrix	: WATER	**Date Extracted**	: 12/05/23
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2231206a-18	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:47
Sample Matrix	: WATER	**Date Extracted**	: 12/06/23
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2231206a-24	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-09	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:00
Sample Matrix	: WATER	**Date Extracted**	: 12/05/23
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2231206a-19	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-11	**Date Collected**	: 11/29/23 08:45
Client ID	: EB	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:09
Sample Matrix	: WATER	**Date Extracted**	: 12/05/23
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2231206a-20	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859857-1	**Date Collected**	: NA
Client ID	: WG1859857-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/06/23 12:07
Sample Matrix	: WATER	**Date Extracted**	: 12/05/23
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2231206a-07	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Results Summary
Form 1
Polychlorinated Biphenyls by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1860227-1	**Date Collected**	: NA
Client ID	: WG1860227-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/06/23 14:19
Sample Matrix	: WATER	**Date Extracted**	: 12/06/23
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P2231206a-21	**Analyst**	: MEO
Sample Amount	: 140 ml	**Instrument ID**	: PEST2
Extraction Method	: EPA 3510C	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	0.071	0.061	U
11104-28-2	Aroclor 1221	ND	0.071	0.061	U
11141-16-5	Aroclor 1232	ND	0.071	0.061	U
53469-21-9	Aroclor 1242	ND	0.071	0.061	U
12672-29-6	Aroclor 1248	ND	0.071	0.061	U
11097-69-1	Aroclor 1254	ND	0.071	0.061	U
11096-82-5	Aroclor 1260	ND	0.071	0.061	U
37324-23-5	Aroclor 1262	ND	0.071	0.061	U
11100-14-4	Aroclor 1268	ND	0.071	0.061	U
1336-36-3	PCBs, Total	ND	0.071	0.061	U

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:35 pm
Operator : pest2:meo
Sample : L2370783-01,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:46:14 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.182	1.250	206.7E6	300.8E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 206843320				Recovery =	99.94%	
	Standard Area 1 : #2 = 303600275				Recovery =	99.07%	
14) i	2154_1br2nb	1.182	1.250	206.7E6	300.8E6	25.000M4	25.000M4
23) i	4268_1br2nb	1.182	1.250	206.7E6	300.8E6	25.000M4	25.000M4
34) i	1248_1br2nb	1.182	1.250	206.7E6	300.8E6	25.000M4	25.000M4
40) i	3262_1br2nb	1.182	1.250	206.7E6	300.8E6	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.463	1.621	156.5E6	265.4E6	12.422M4	13.293
	Spiked Amount 20.000	Range 30 - 150			Recovery =	62.11%	66.47%
3) s	Decachlorobi	4.026	4.547	157.0E6	189.0E6	13.836	13.745
	Spiked Amount 20.000	Range 30 - 150			Recovery =	69.18%	68.72%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:35 pm
Operator : pest2:meo
Sample : L2370783-01,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:46:14 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:35 pm
Operator : pest2:meo
Sample : L2370783-01,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:46:14 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

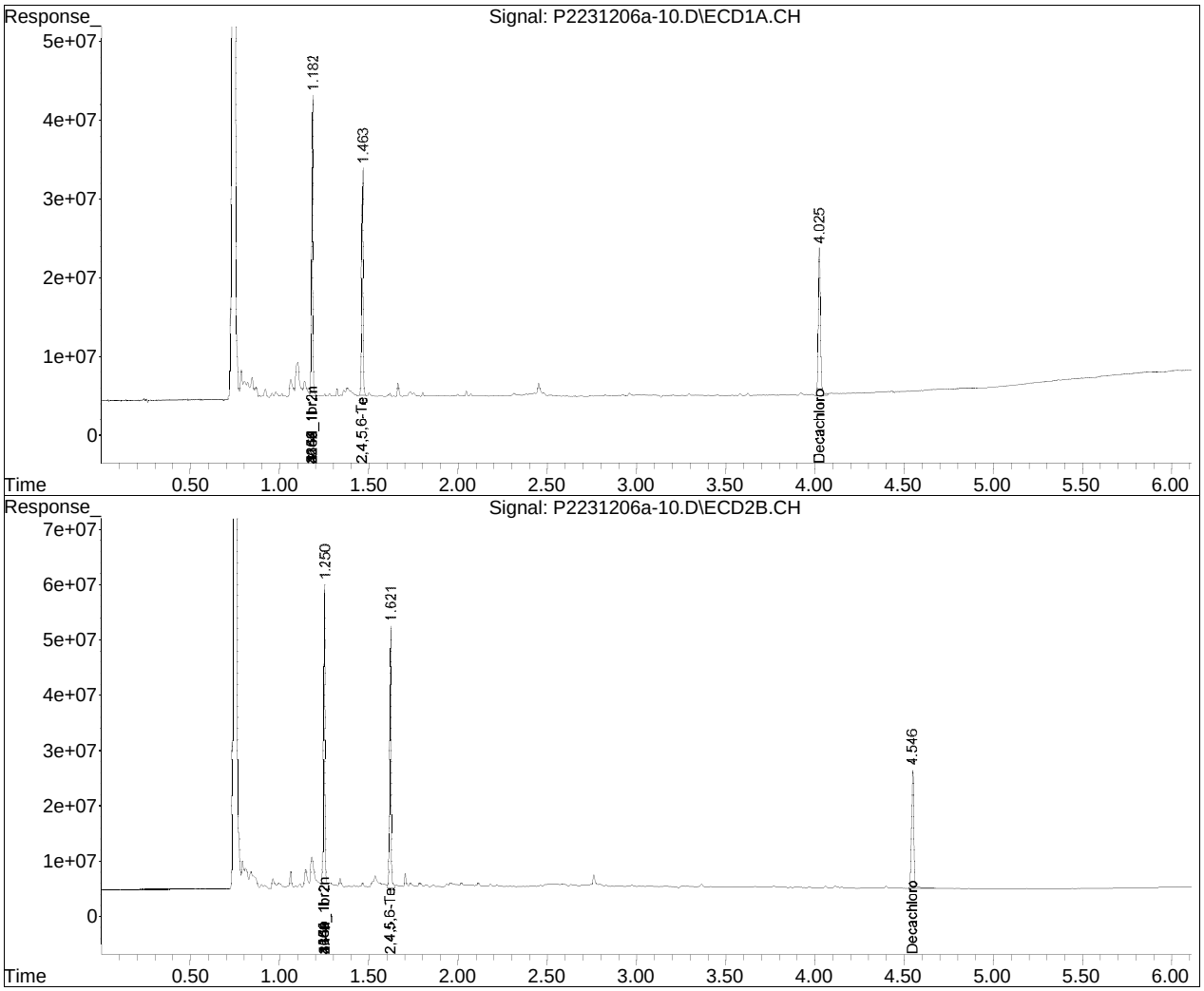
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:35 pm
Operator : pest2:meo
Sample : L2370783-01,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:46:14 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

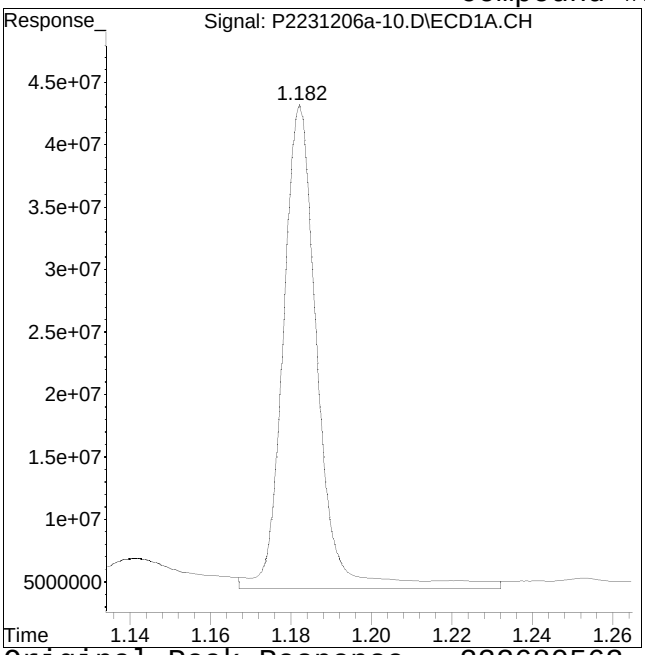
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



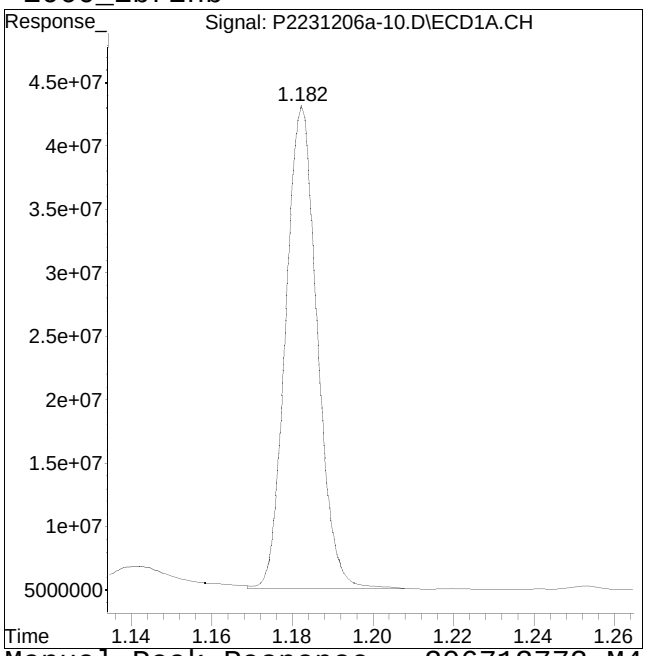
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-10.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:35 pm Instrument : Pest 2
Sample : L2370783-01,42,, Quant Date : 12/6/2023 3:42 pm

Compound #1: 1660_1br2nb



Original Peak Response = 232680563

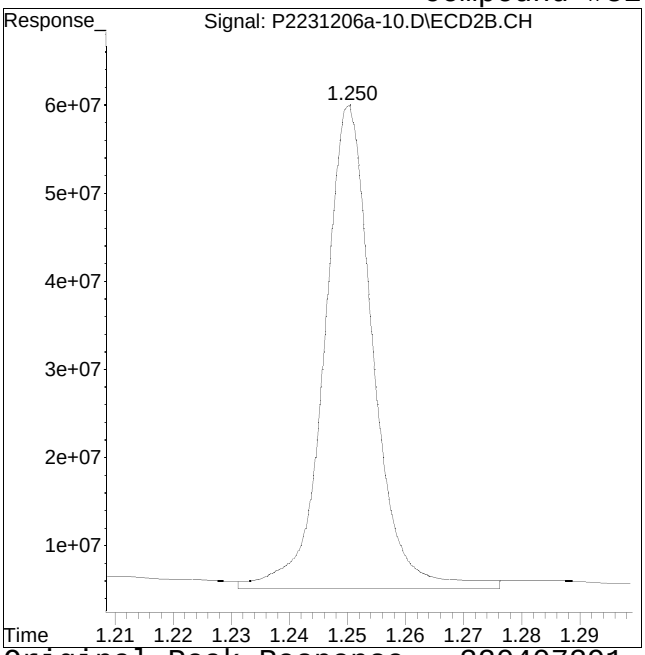


Manual Peak Response = 206713772 M4
M4 = Poor automated baseline construction.

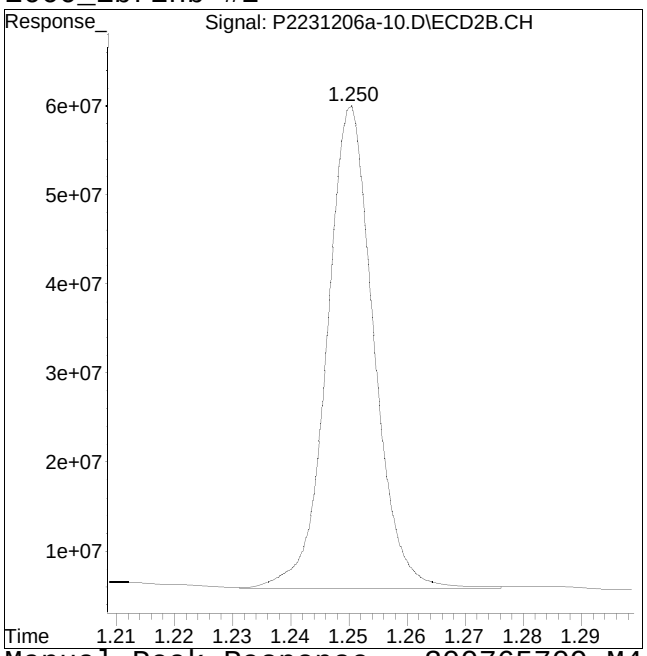
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-10.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:35 pm Instrument : Pest 2
Sample : L2370783-01,42,, Quant Date : 12/6/2023 3:42 pm

Compound #52: 1660_1br2nb #2



Original Peak Response = 320407391



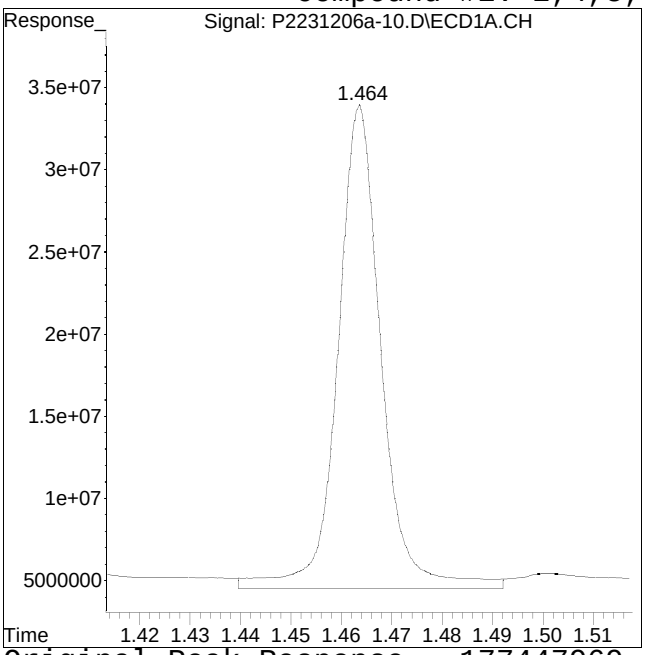
Manual Peak Response = 300765709 M4

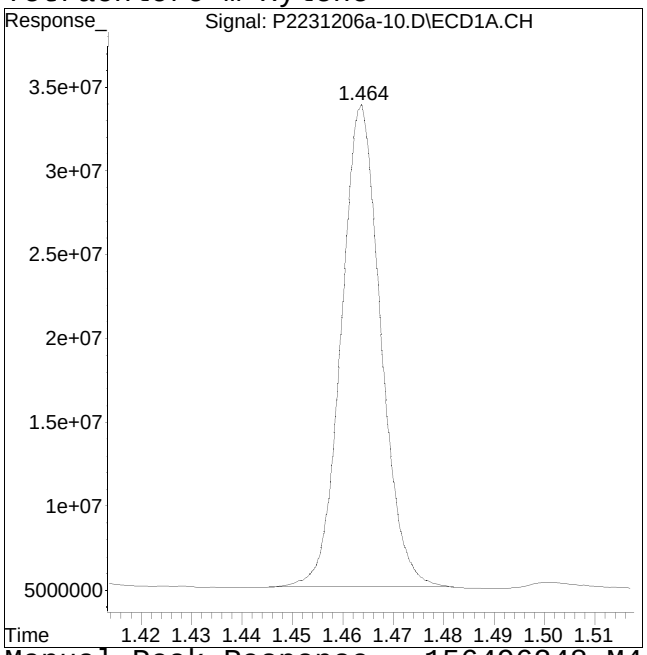
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-10.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:35 pm Instrument : Pest 2
Sample : L2370783-01,42,, Quant Date : 12/6/2023 3:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





Original Peak Response = 177447969 Manual Peak Response = 156496248 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:45 pm
Operator : pest2:meo
Sample : L2370783-02,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:47:55 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.183	1.251	196.8E6	266.7E6	25.000M4	25.000
Standard Area 1 : #1 = 206843320				Recovery =	95.13%	
Standard Area 1 : #2 = 303600275				Recovery =	87.86%	
14) i 2154_1br2nb	1.183	1.251	196.8E6	266.7E6	25.000M4	25.000
23) i 4268_1br2nb	1.183	1.251	196.8E6	266.7E6	25.000M4	25.000
34) i 1248_1br2nb	1.183	1.251	196.8E6	266.7E6	25.000M4	25.000
40) i 3262_1br2nb	1.183	1.251	196.8E6	266.7E6	25.000M4	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.465	1.622	162.3E6	249.9E6	13.530	14.109
Spiked Amount	20.000	Range 30 - 150		Recovery =	67.65%	70.55%
3) s Decachlorobi	4.026	4.547	158.9E6	186.3E6	14.711	15.281
Spiked Amount	20.000	Range 30 - 150		Recovery =	73.56%	76.41%
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:45 pm
Operator : pest2:meo
Sample : L2370783-02,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:47:55 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	2.659	0	1916822	N.D. d	2.893M4
19) l4 1254-2	0.000	2.746	0	3062807	N.D. d	3.983M4
20) l4 1254-3	2.610	2.974	2444358	3867124	3.135M4	3.363M4
21) l4 1254-4	2.741	3.086	2710695	2709802	4.716M4	3.670M4
22) l4 1254-5	2.961	3.364	3628828	5679892	4.336M4	5.483M4
Sum 1254-1			8783881	17236447	12.187	19.392 D
Average 1254-1					4.062	3.878
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:45 pm
Operator : pest2:meo
Sample : L2370783-02,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:47:55 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

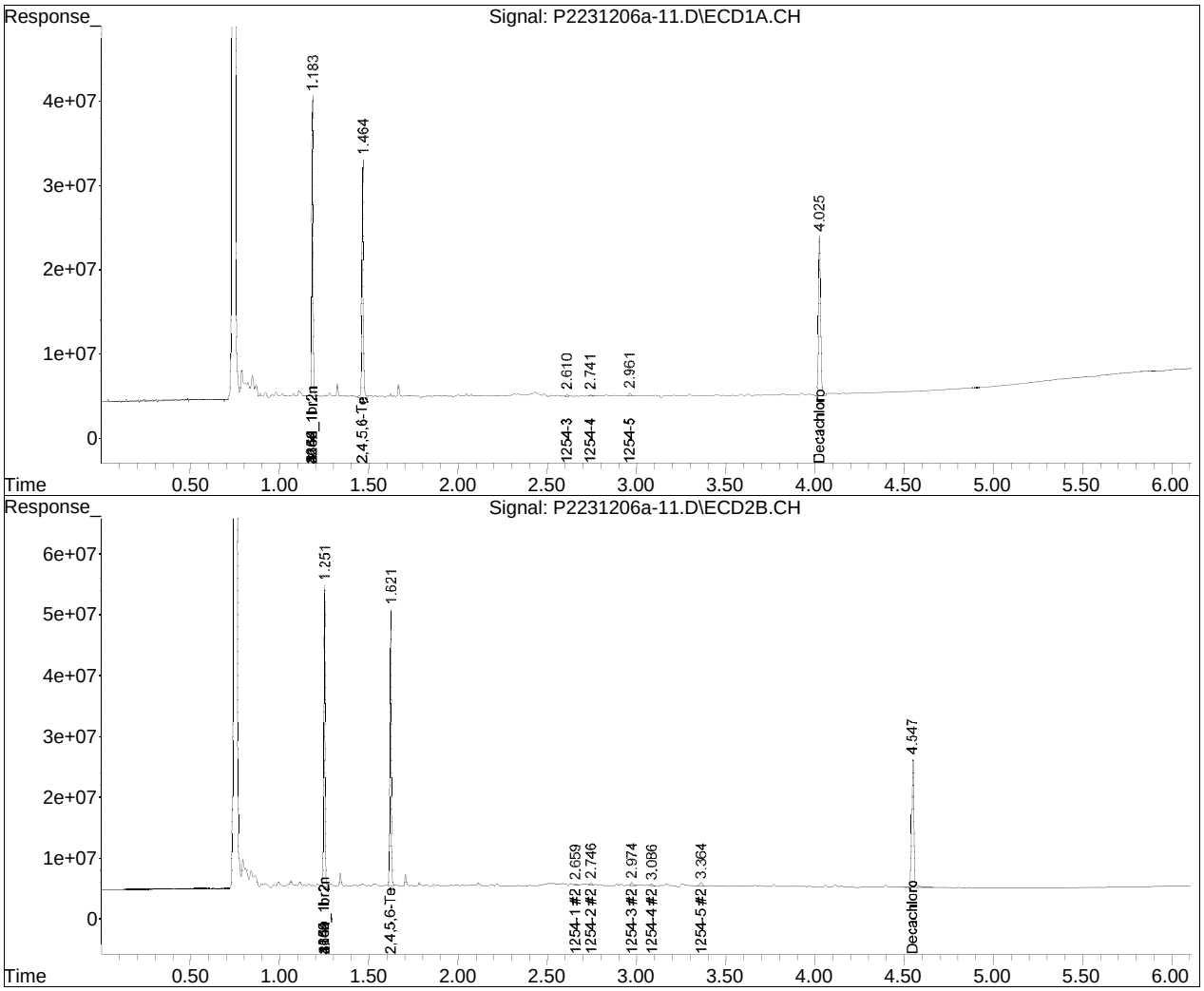
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:45 pm
Operator : pest2:meo
Sample : L2370783-02,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:47:55 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

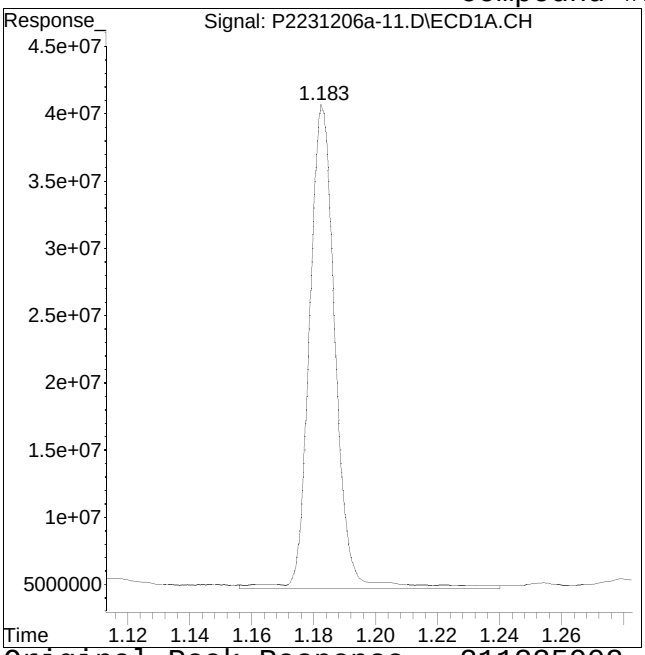
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

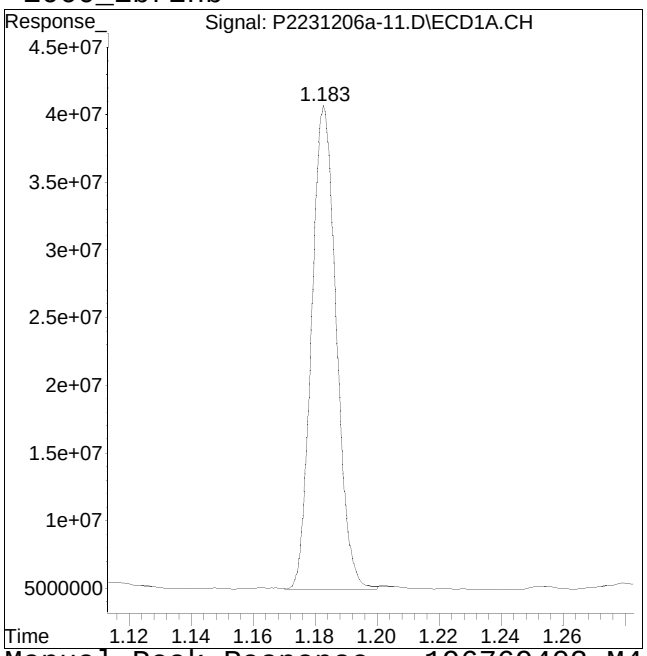


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-11.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:45 pm Instrument : Pest 2
Sample : L2370783-02,42,, Quant Date : 12/6/2023 3:42 pm

Compound #1: 1660_1br2nb



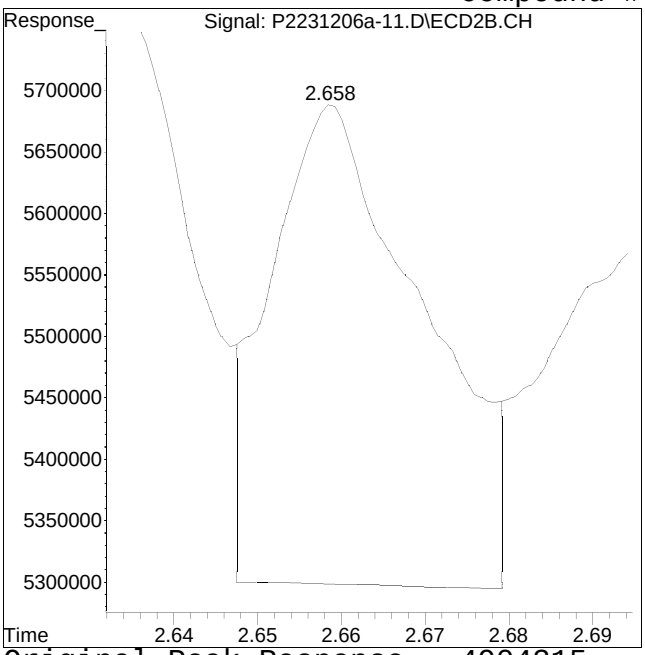


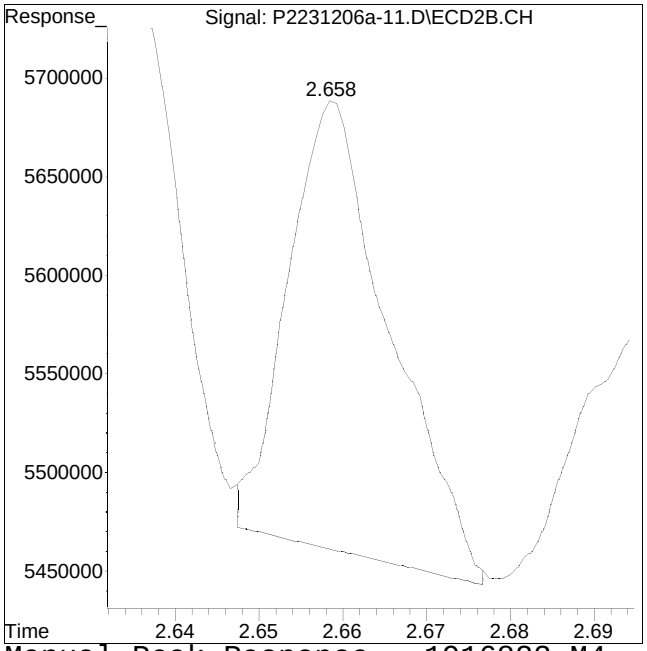
Original Peak Response = 211335902 Manual Peak Response = 196769402 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-11.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:45 pm Instrument : Pest 2
Sample : L2370783-02,42,, Quant Date : 12/6/2023 3:42 pm

Compound #69: 1254-1 #2



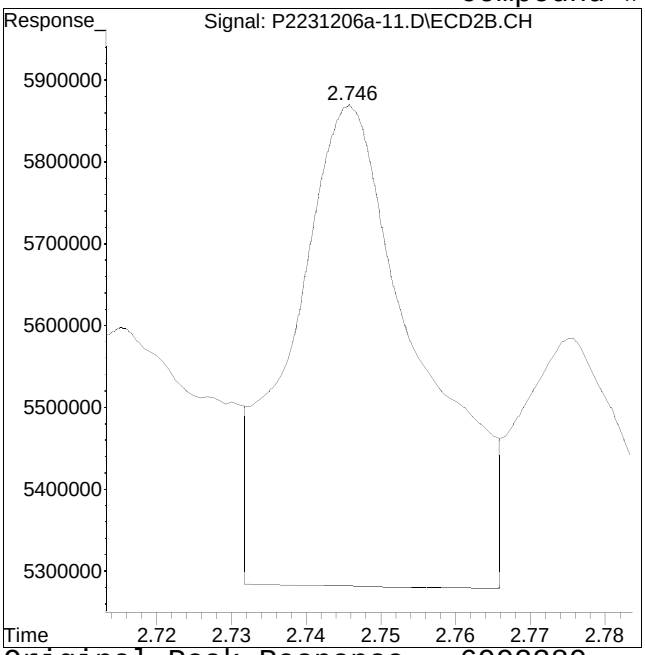


Original Peak Response = 4904315 Manual Peak Response = 1916822 M4
M4 = Poor automated baseline construction.

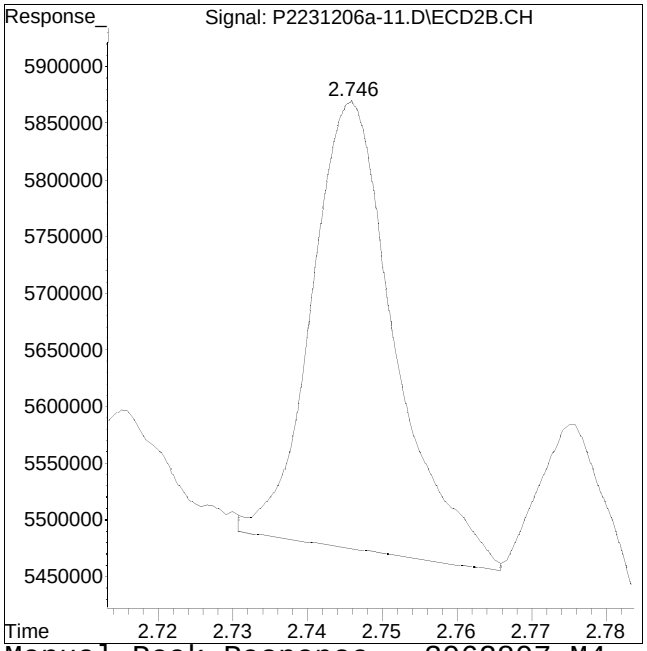
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-11.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:45 pm Instrument : Pest 2
Sample : L2370783-02,42,, Quant Date : 12/6/2023 3:42 pm

Compound #70: 1254-2 #2



Original Peak Response = 6992389



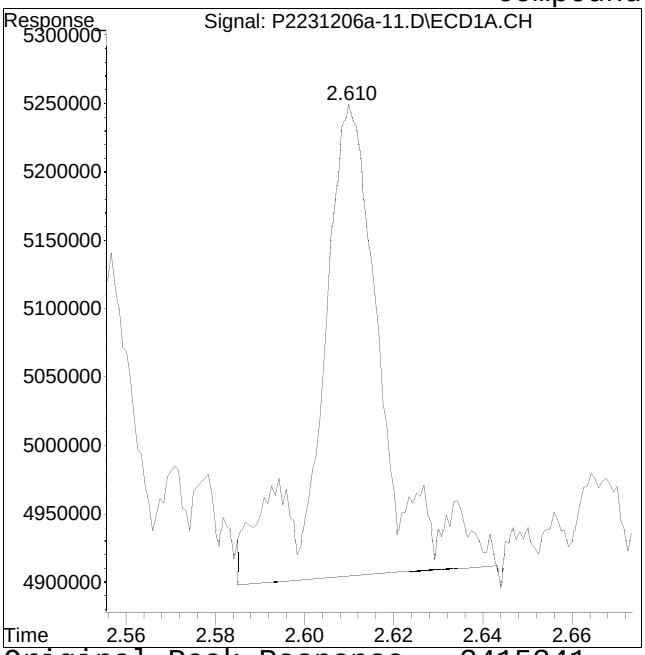
Manual Peak Response = 3062807 M4

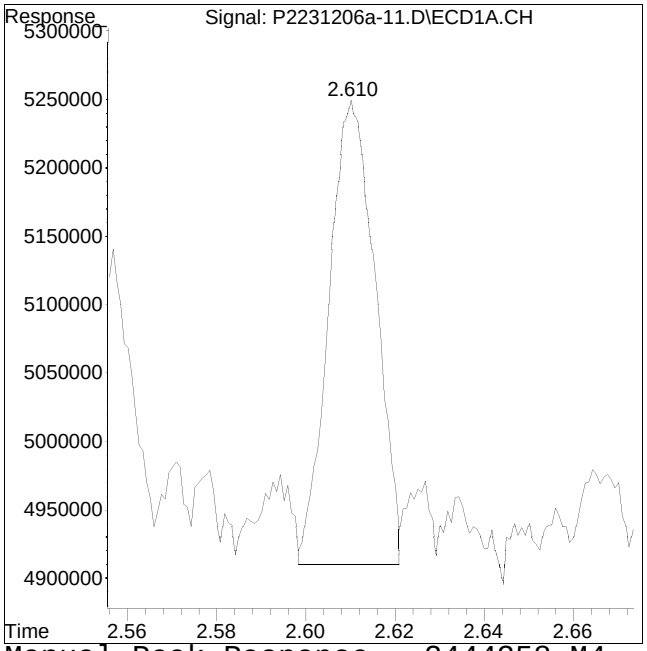
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-11.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:45 pm Instrument : Pest 2
Sample : L2370783-02,42,, Quant Date : 12/6/2023 3:42 pm

Compound #20: 1254-3



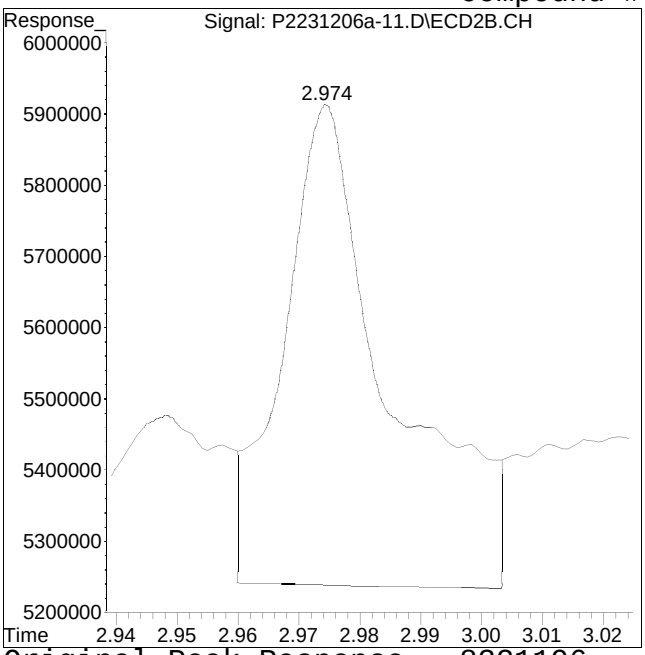


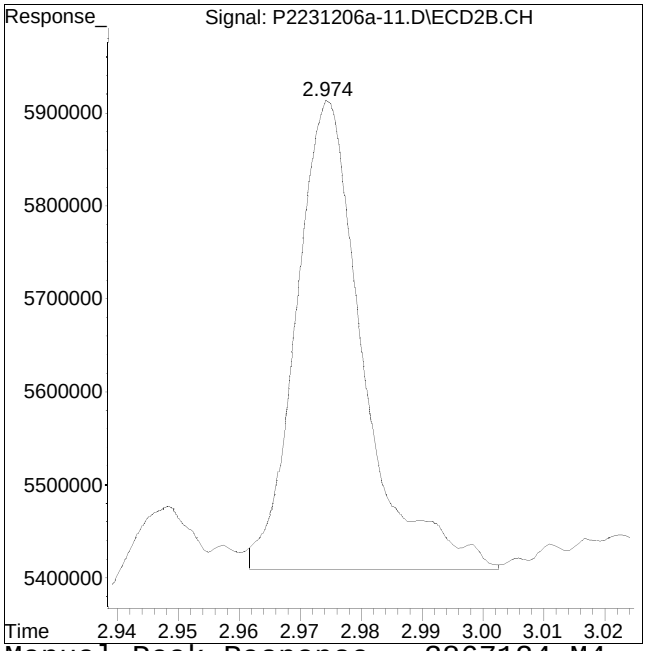
Original Peak Response = 3415341 Manual Peak Response = 2444358 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-11.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:45 pm Instrument : Pest 2
Sample : L2370783-02,42,, Quant Date : 12/6/2023 3:42 pm

Compound #71: 1254-3 #2



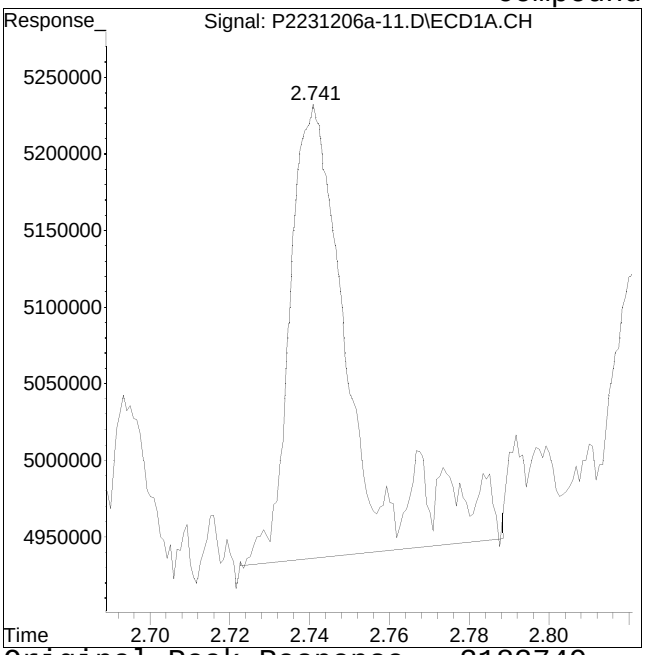


Original Peak Response = 8321196 Manual Peak Response = 3867124 M4
M4 = Poor automated baseline construction.

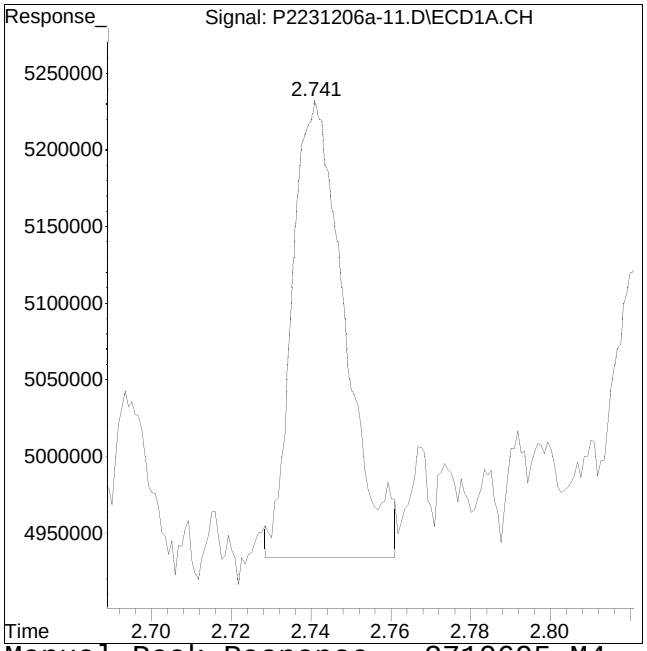
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-11.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:45 pm Instrument : Pest 2
Sample : L2370783-02,42,, Quant Date : 12/6/2023 3:42 pm

Compound #21: 1254-4



Original Peak Response = 3183749



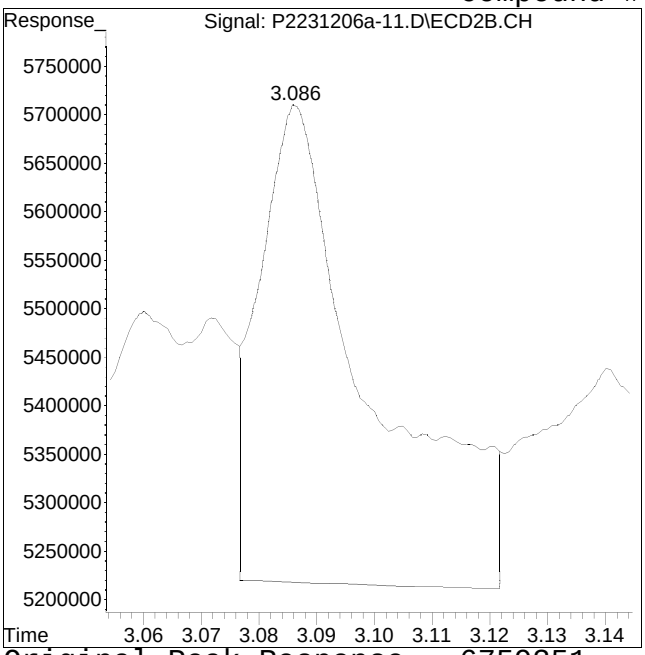
Manual Peak Response = 2710695 M4

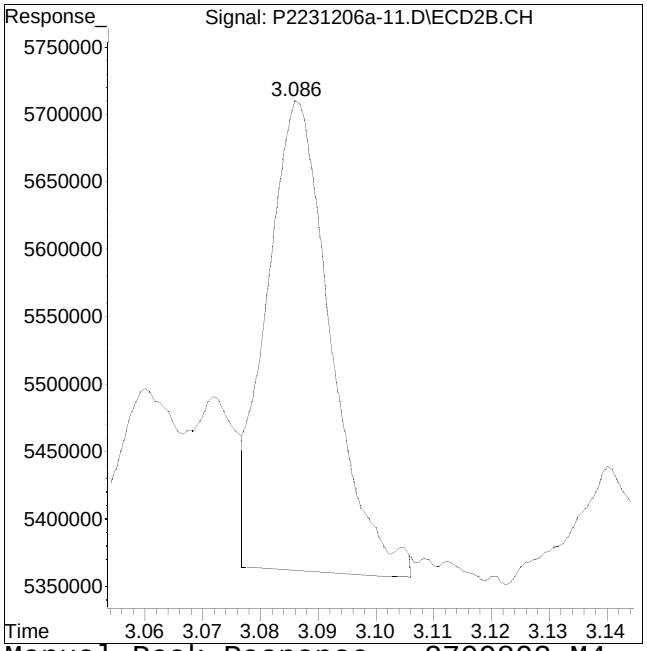
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-11.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:45 pm Instrument : Pest 2
Sample : L2370783-02,42,, Quant Date : 12/6/2023 3:42 pm

Compound #72: 1254-4 #2



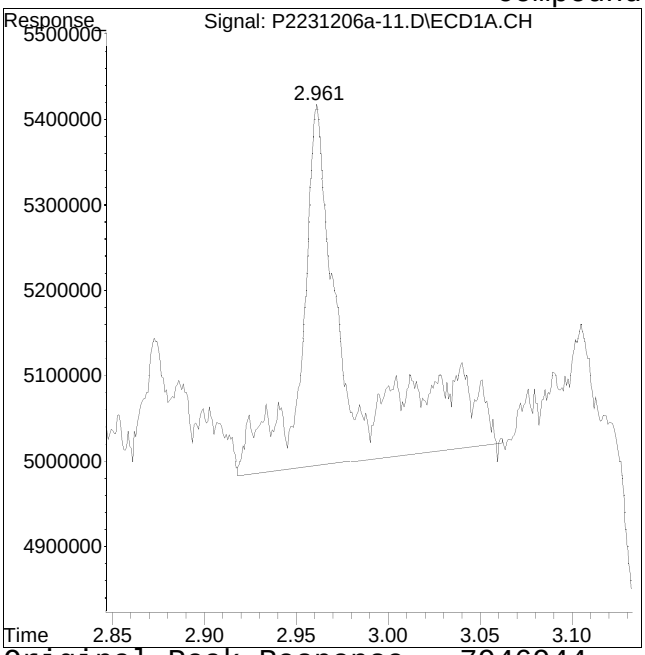


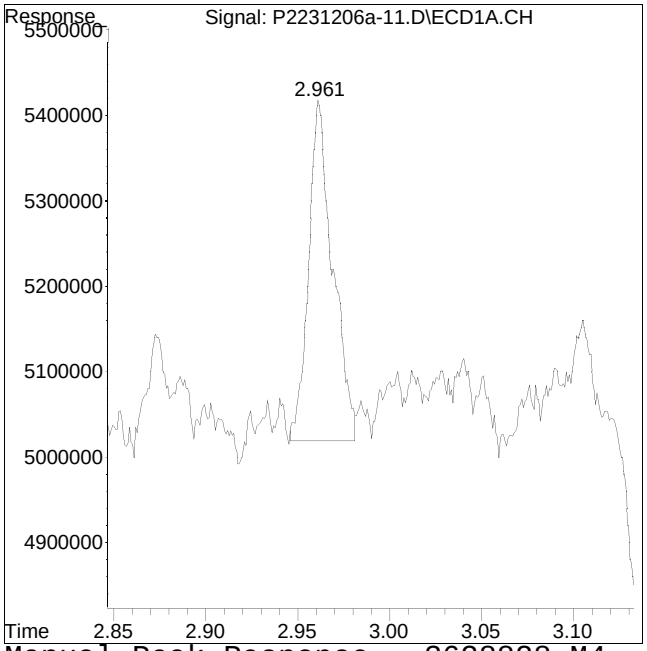
Original Peak Response = 6759351 Manual Peak Response = 2709802 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-11.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:45 pm Instrument : Pest 2
Sample : L2370783-02,42,, Quant Date : 12/6/2023 3:42 pm

Compound #22: 1254-5



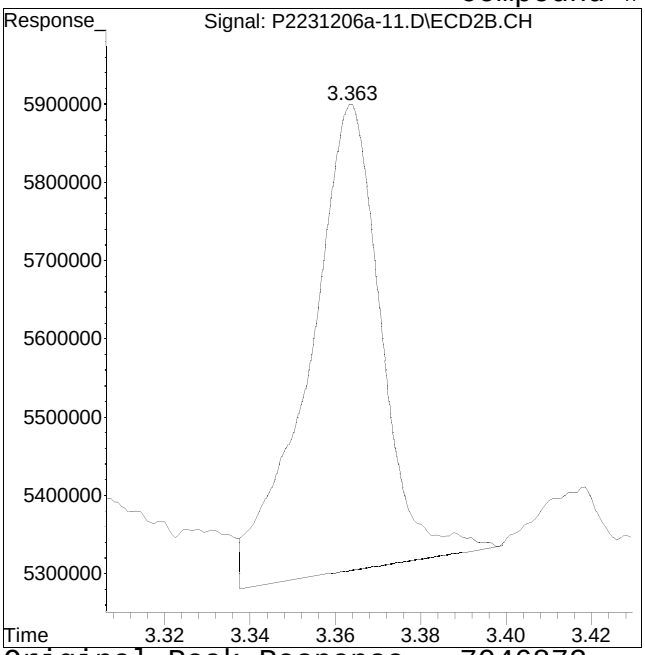


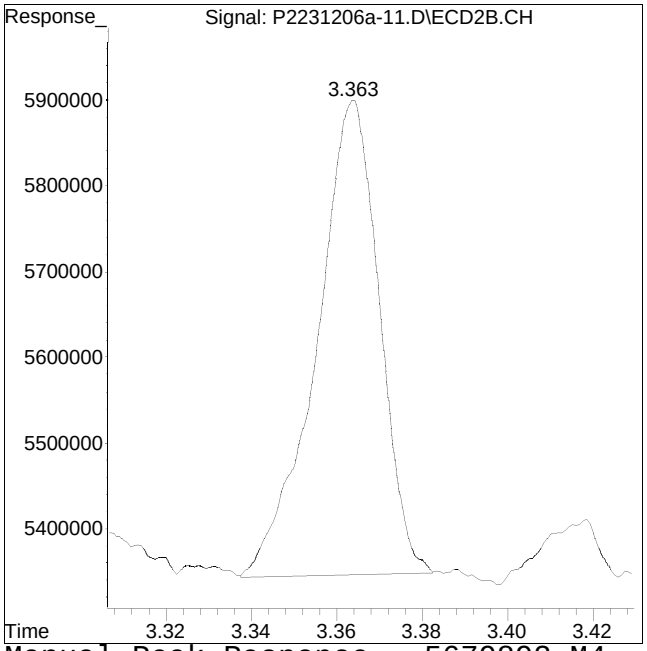
Original Peak Response = 7946944 Manual Peak Response = 3628828 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-11.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:45 pm Instrument : Pest 2
Sample : L2370783-02,42,, Quant Date : 12/6/2023 3:42 pm

Compound #73: 1254-5 #2





Original Peak Response = 7046873 Manual Peak Response = 5679892 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:54 pm
Operator : pest2:meo
Sample : L2370783-03,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:48:35 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.183	1.251	195.8E6	266.6E6	25.000M4	25.000
Standard Area 1 : #1 = 206843320				Recovery =	94.67%	
Standard Area 1 : #2 = 303600275				Recovery =	87.81%	
14) i 2154_1br2nb	1.183	1.251	195.8E6	266.6E6	25.000M4	25.000
23) i 4268_1br2nb	1.183	1.251	195.8E6	266.6E6	25.000M4	25.000
34) i 1248_1br2nb	1.183	1.251	195.8E6	266.6E6	25.000M4	25.000
40) i 3262_1br2nb	1.183	1.251	195.8E6	266.6E6	25.000M4	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.464	1.622	160.5E6	254.9E6	13.445M4	14.404
Spiked Amount	20.000	Range 30 - 150		Recovery =	67.22%	72.02%
3) s Decachlorobi	4.026	4.548	153.4E6	178.2E6	14.275	14.622
Spiked Amount	20.000	Range 30 - 150		Recovery =	71.38%	73.11%
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:54 pm
Operator : pest2:meo
Sample : L2370783-03,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:48:35 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:54 pm
Operator : pest2:meo
Sample : L2370783-03,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:48:35 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

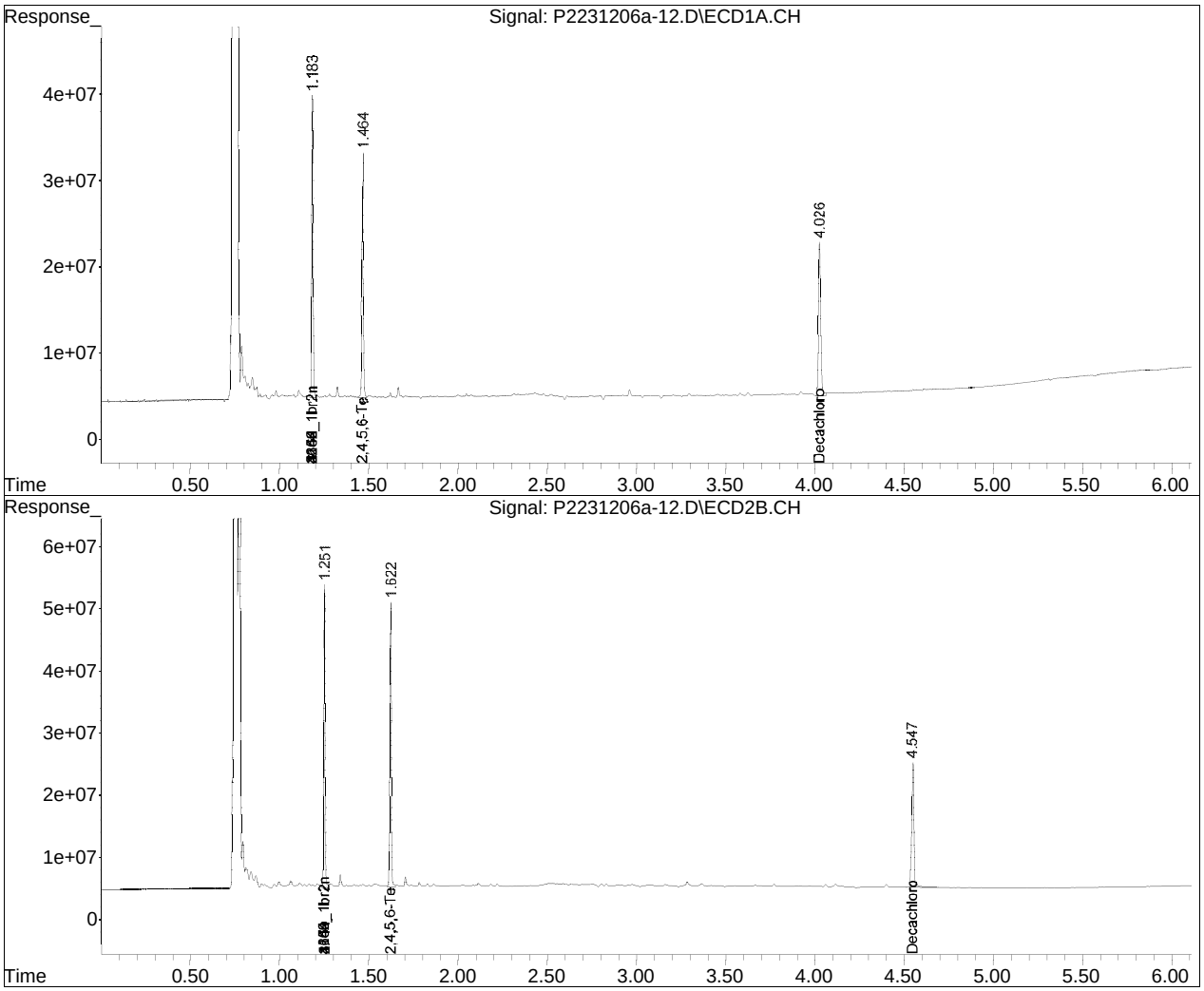
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:54 pm
Operator : pest2:meo
Sample : L2370783-03,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:48:35 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

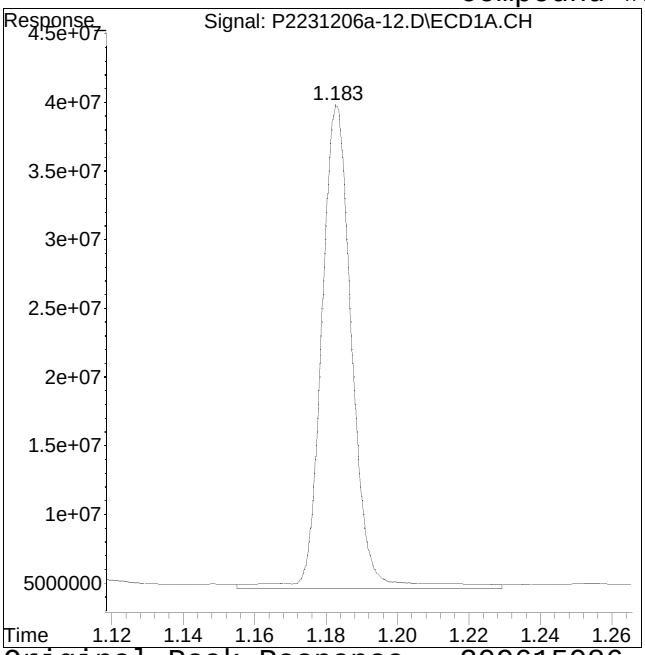
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

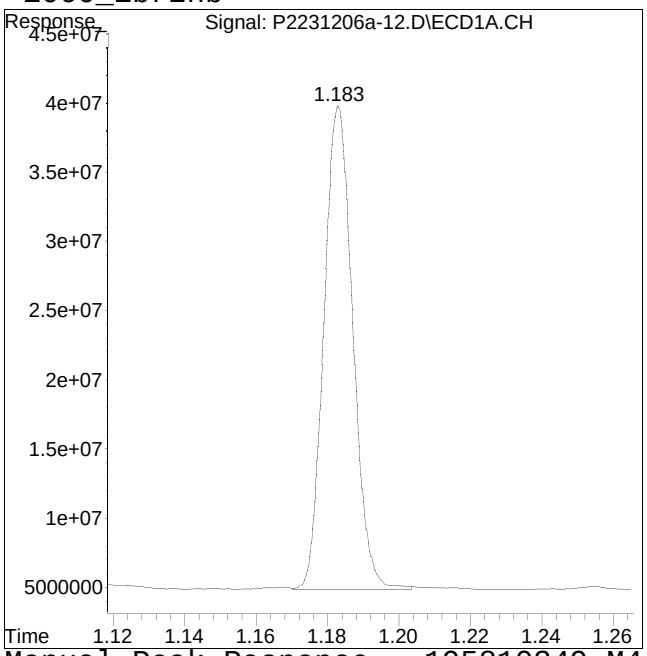


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-12.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:54 pm Instrument : Pest 2
Sample : L2370783-03,42,, Quant Date : 12/6/2023 3:42 pm

Compound #1: 1660_1br2nb



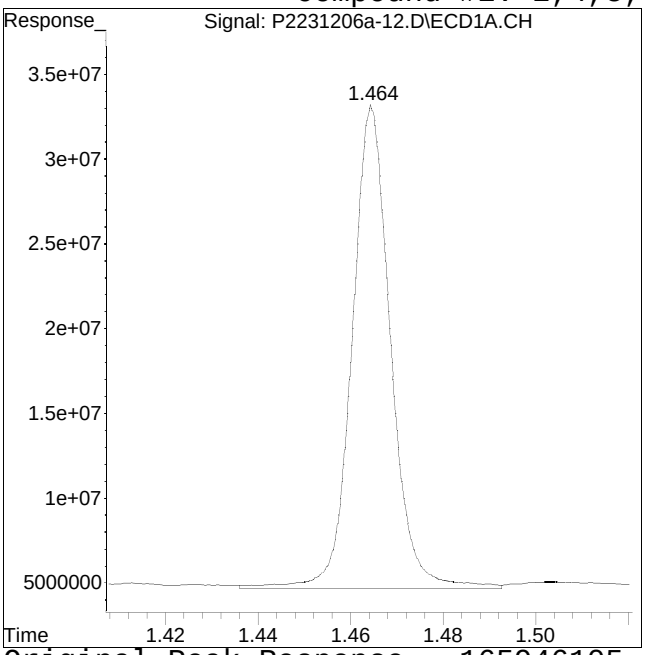


Original Peak Response = 209615986 Manual Peak Response = 195810349 M4
M4 = Poor automated baseline construction.

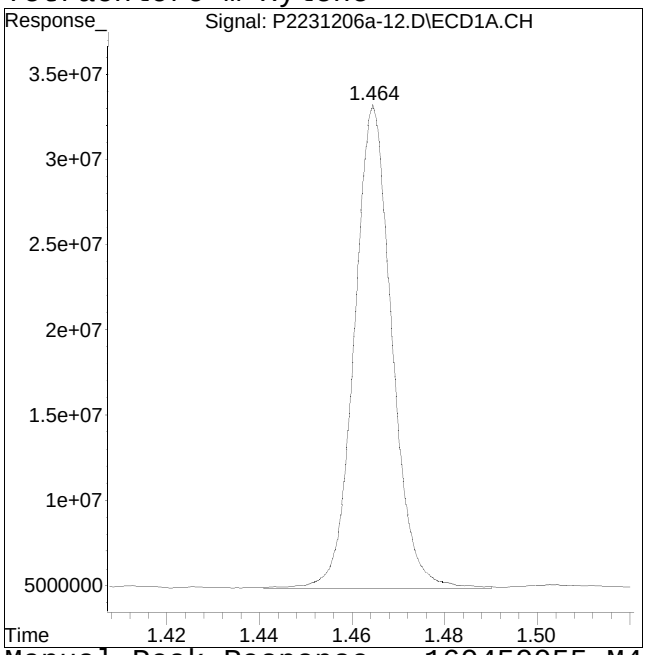
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-12.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:54 pm Instrument : Pest 2
Sample : L2370783-03,42,, Quant Date : 12/6/2023 3:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 165946105



Manual Peak Response = 160450055 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:03 pm
Operator : pest2:meo
Sample : L2370783-04,42,, p
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:50:02 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.183	1.252	193.6E6	265.3E6	25.000M4	25.000
	Standard Area 1 : #1 = 206843320				Recovery =	93.61%	
	Standard Area 1 : #2 = 303600275				Recovery =	87.39%	
14) i	2154_1br2nb	1.183	1.252	193.6E6	265.3E6	25.000M4	25.000
23) i	4268_1br2nb	1.183	1.252	193.6E6	265.3E6	25.000M4	25.000
34) i	1248_1br2nb	1.183	1.252	193.6E6	265.3E6	25.000M4	25.000
40) i	3262_1br2nb	1.183	1.252	193.6E6	265.3E6	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.622	163.4E6	265.2E6	13.851M4	15.055
	Spiked Amount 20.000	Range 30 - 150			Recovery =	69.25%	75.28%
3) s	Decachlorobi	4.026	4.547	156.7E6	183.5E6	14.745	15.130
	Spiked Amount 20.000	Range 30 - 150			Recovery =	73.72%	75.65%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:03 pm
Operator : pest2:meo
Sample : L2370783-04,42,, p
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:50:02 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:03 pm
Operator : pest2:meo
Sample : L2370783-04,42,, p
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:50:02 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

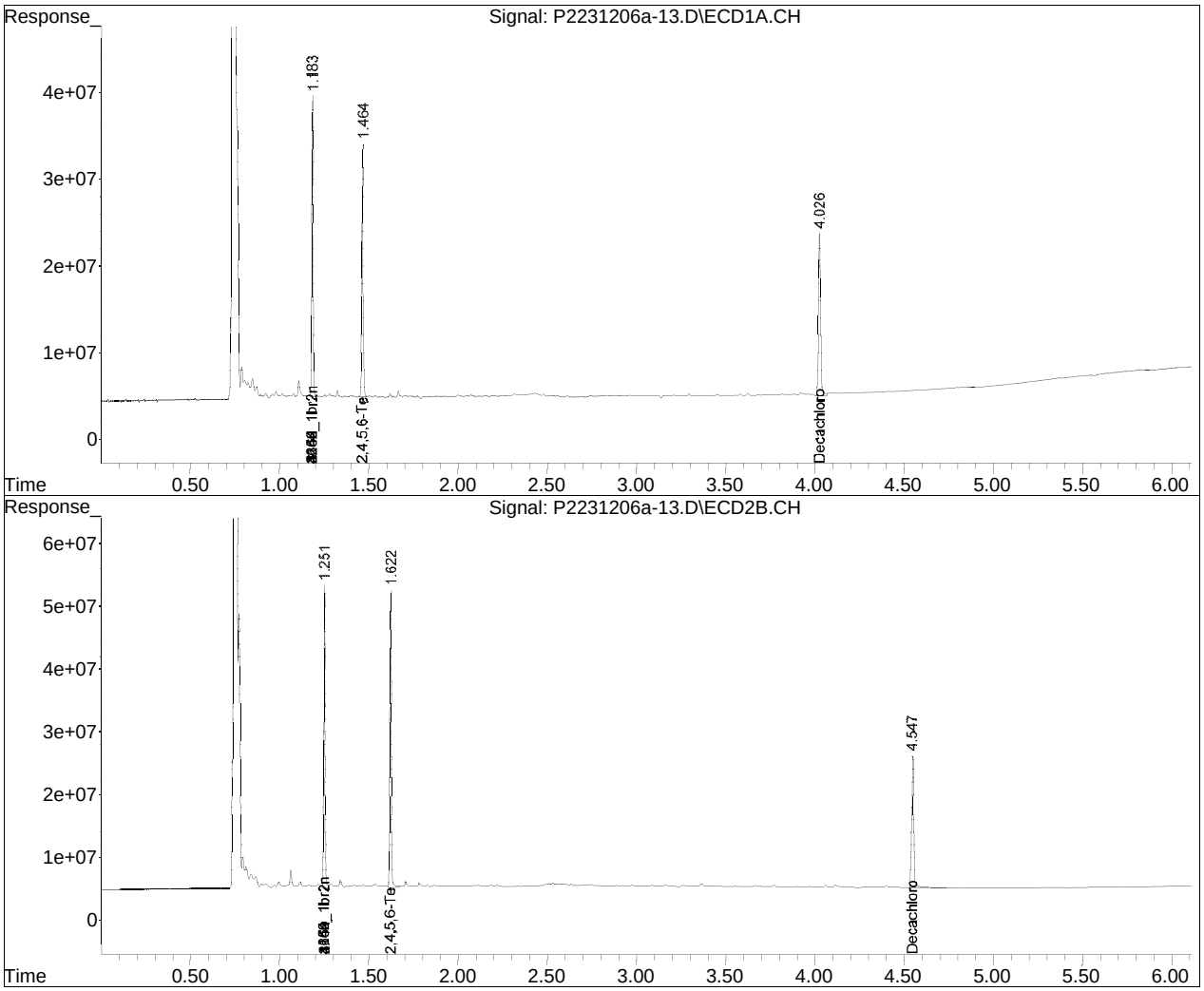
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:03 pm
Operator : pest2:meo
Sample : L2370783-04,42,, p
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:50:02 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

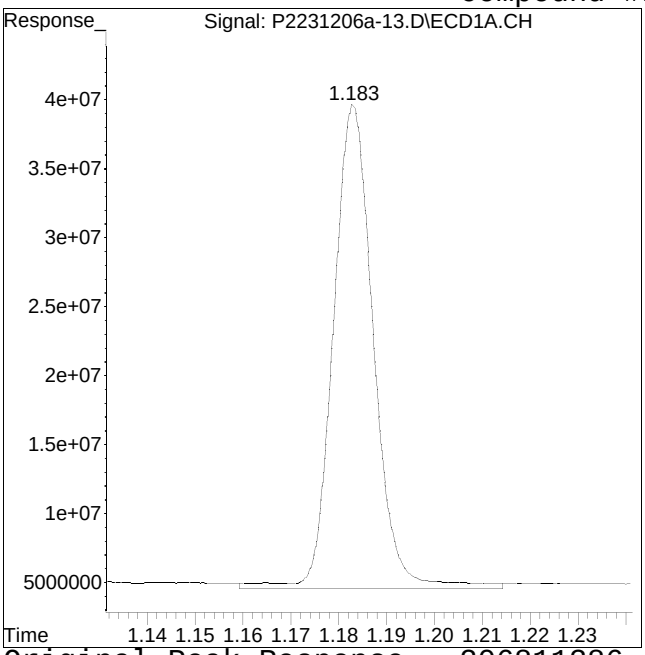
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

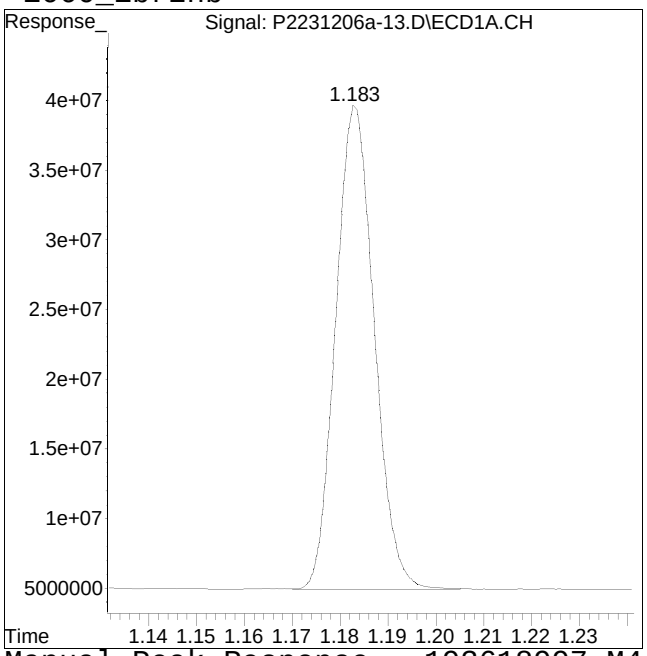


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-13.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:03 pm Instrument : Pest 2
Sample : L2370783-04,42,, p Quant Date : 12/6/2023 3:42 pm

Compound #1: 1660_1br2nb



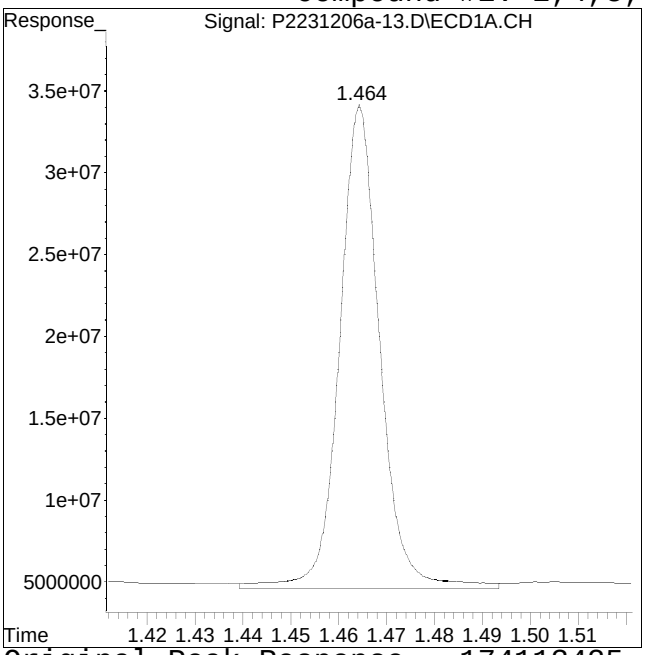


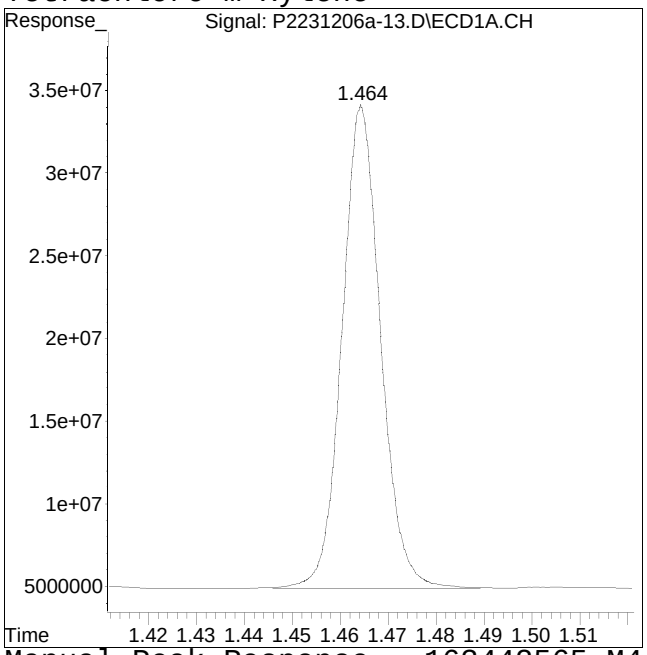
Original Peak Response = 206811386 Manual Peak Response = 193618997 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-13.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:03 pm Instrument : Pest 2
Sample : L2370783-04,42,, p Quant Date : 12/6/2023 3:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





Original Peak Response = 174113425 Manual Peak Response = 163442565 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:32 pm
Operator : pest2:meo
Sample : L2370783-05,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:59:13 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.183	1.252	209.9E6	276.1E6	25.000	25.000
Standard Area 1 : #1 = 206843320				Recovery =	101.48%	
Standard Area 1 : #2 = 303600275				Recovery =	90.95%	
14) i 2154_1br2nb	1.183	1.252	209.9E6	276.1E6	25.000	25.000
23) i 4268_1br2nb	1.183	1.252	209.9E6	276.1E6	25.000	25.000
34) i 1248_1br2nb	1.183	1.252	209.9E6	276.1E6	25.000	25.000
40) i 3262_1br2nb	1.183	1.252	209.9E6	276.1E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.465	1.622	174.2E6	267.2E6	13.619	14.578
Spiked Amount 20.000	Range 30 - 150		Recovery =	68.09%	72.89%	
3) s Decachlorobi	4.027	4.548	166.2E6	199.8E6	14.427	15.829
Spiked Amount 20.000	Range 30 - 150		Recovery =	72.13%	79.14%	
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:32 pm
Operator : pest2:meo
Sample : L2370783-05,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:59:13 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	2.315	2.659	1269386	1632006	2.907M4	2.379M4
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	2.612	2.975	2104982	3086924	2.531M4	2.593M4
21) l4 1254-4	2.742	3.087	2456751	2361398	4.006M4	3.090M4
22) l4 1254-5	2.962	3.365	2676343	5264325	2.998M4	4.910M4
Sum 1254-1			8507462	12344654	12.442	12.972
Average 1254-1					3.110	3.243
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:32 pm
Operator : pest2:meo
Sample : L2370783-05,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:59:13 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

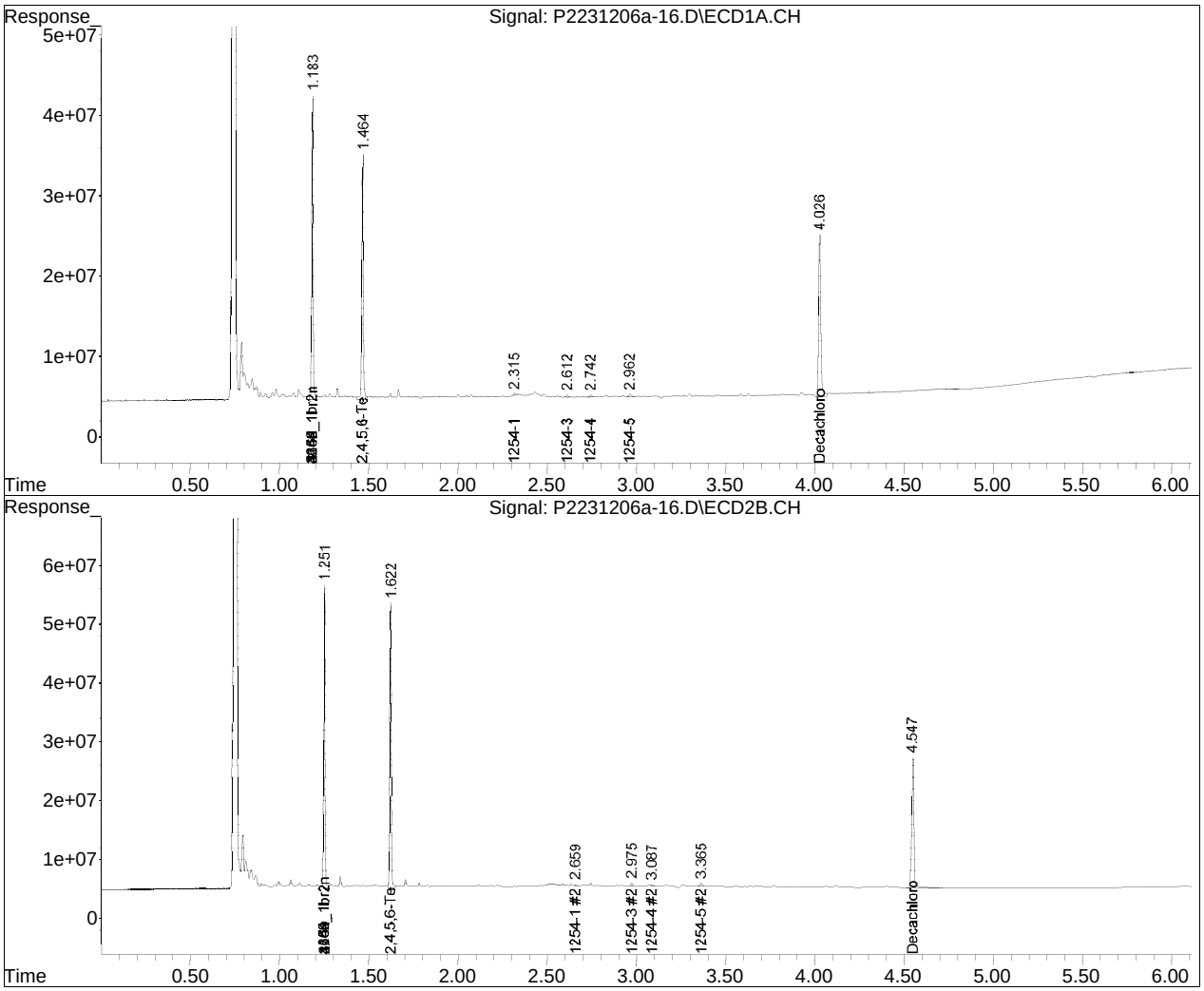
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:32 pm
Operator : pest2:meo
Sample : L2370783-05,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:59:13 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

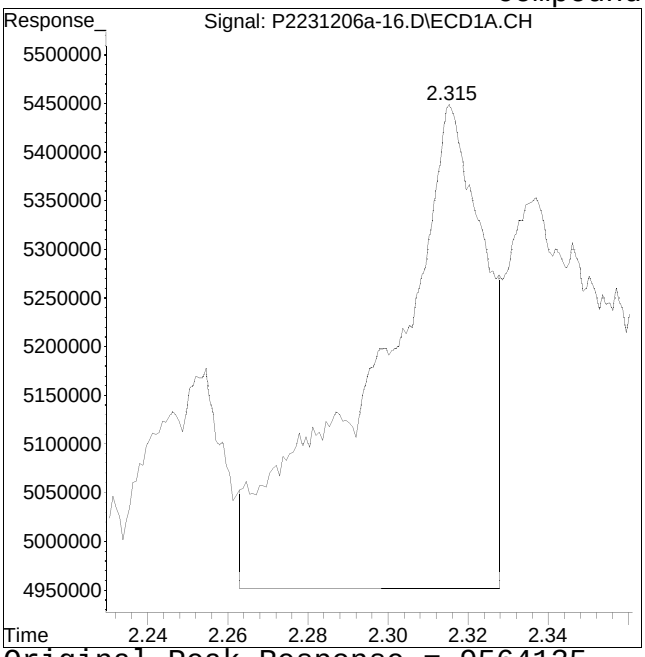
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

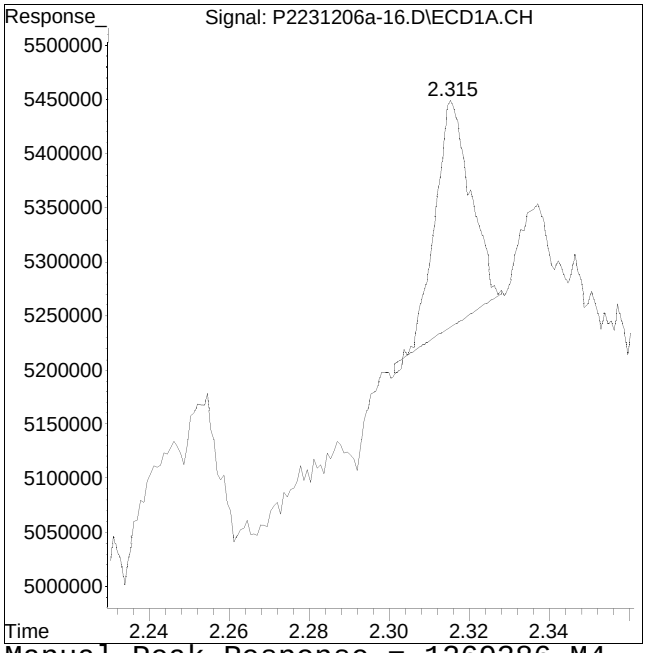


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-16.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:32 pm Instrument : Pest 2
Sample : L2370783-05,42,, Quant Date : 12/6/2023 3:42 pm

Compound #18: 1254-1



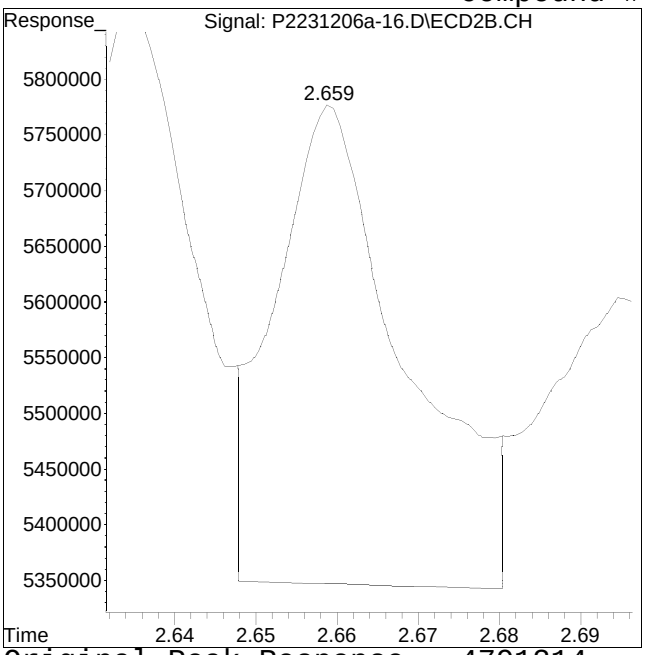


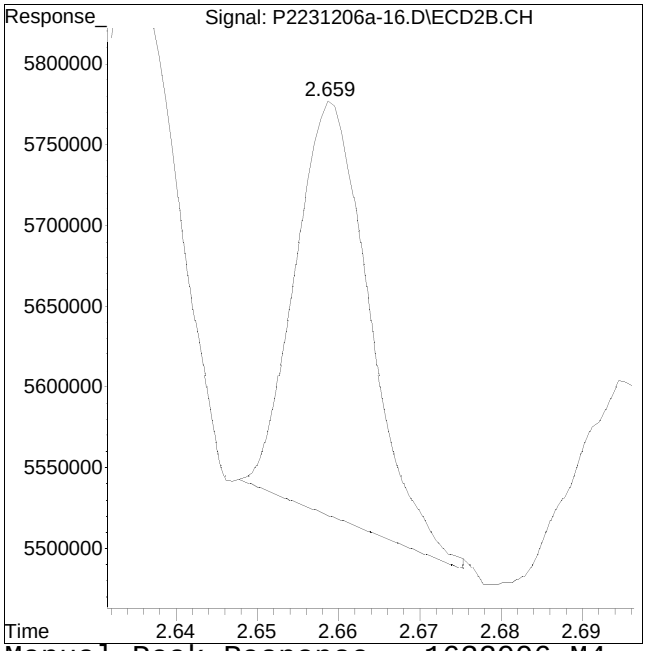
Original Peak Response = 9564135 Manual Peak Response = 1269386 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-16.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:32 pm Instrument : Pest 2
Sample : L2370783-05,42,, Quant Date : 12/6/2023 3:42 pm

Compound #69: 1254-1 #2



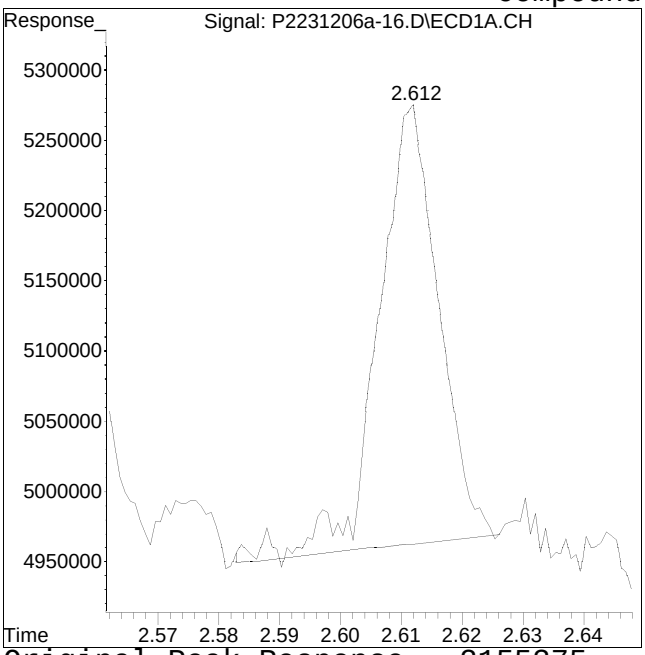


Original Peak Response = 4791214 Manual Peak Response = 1632006 M4
M4 = Poor automated baseline construction.

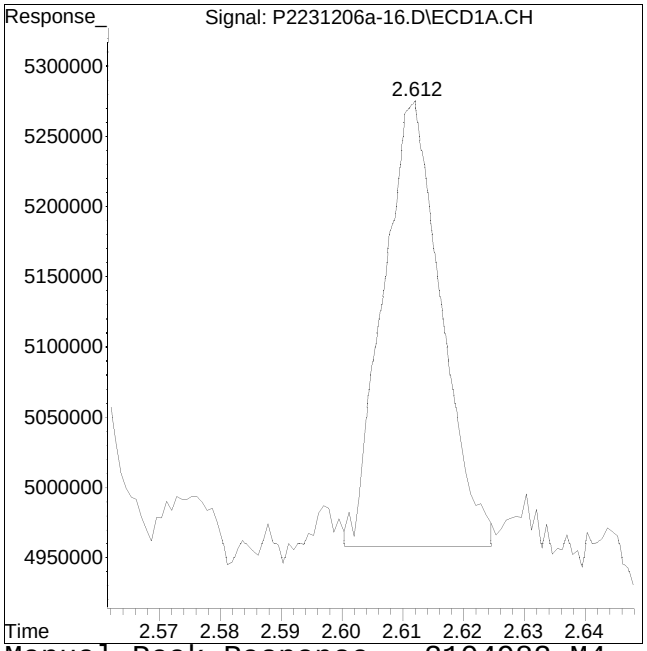
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-16.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:32 pm Instrument : Pest 2
Sample : L2370783-05,42,, Quant Date : 12/6/2023 3:42 pm

Compound #20: 1254-3



Original Peak Response = 2155375



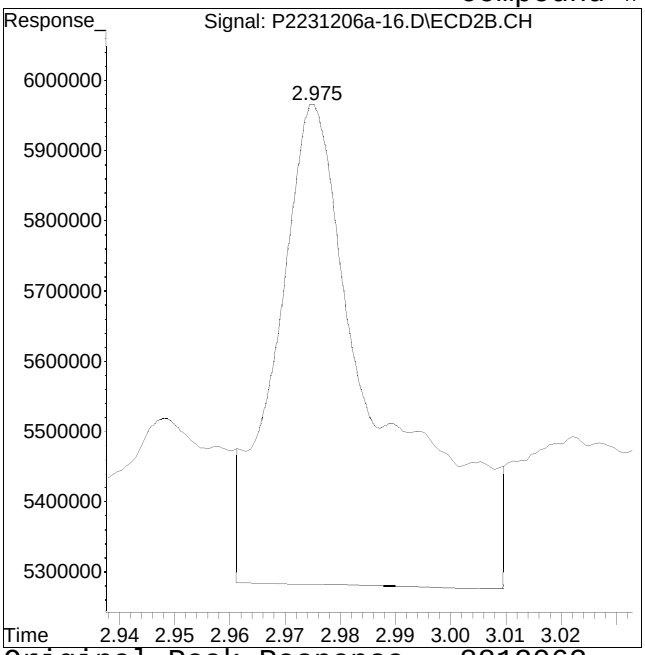
Manual Peak Response = 2104982 M4

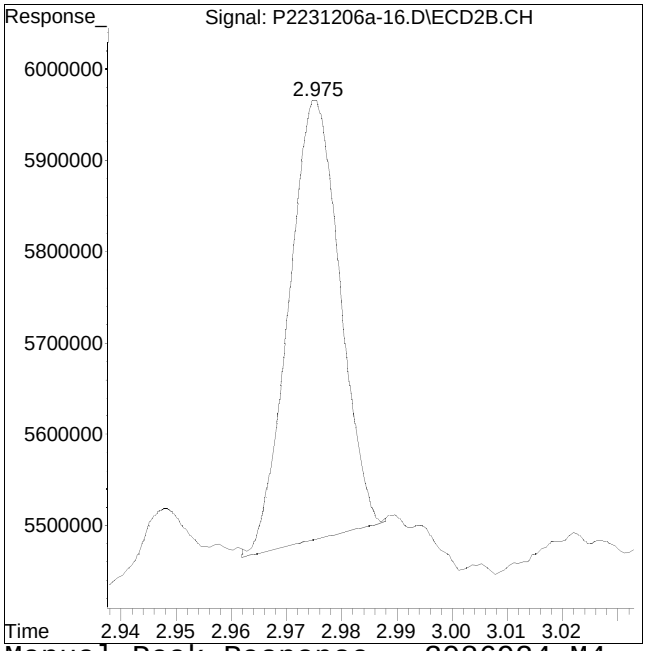
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-16.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:32 pm Instrument : Pest 2
Sample : L2370783-05,42,, Quant Date : 12/6/2023 3:42 pm

Compound #71: 1254-3 #2



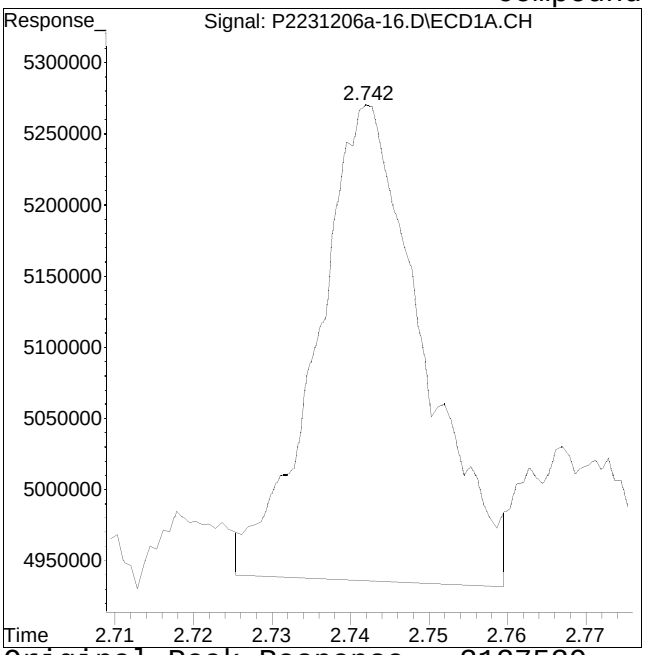


Original Peak Response = 8812063 Manual Peak Response = 3086924 M4
M4 = Poor automated baseline construction.

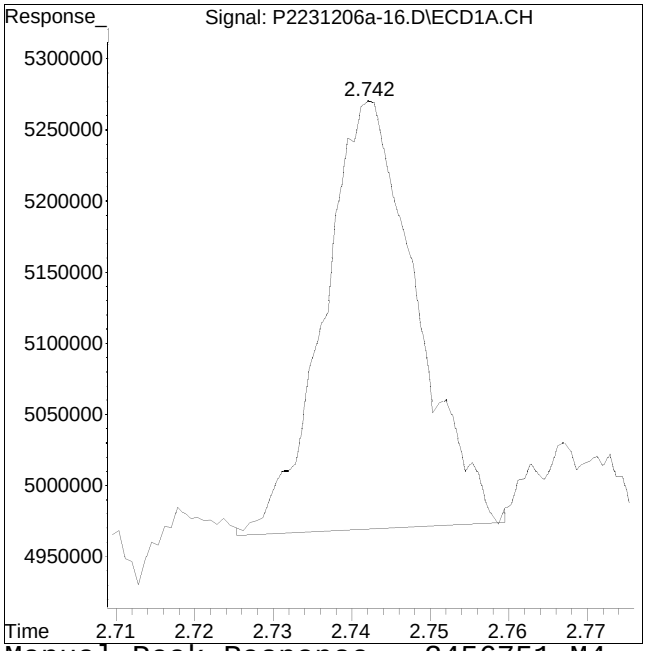
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-16.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:32 pm Instrument : Pest 2
Sample : L2370783-05,42,, Quant Date : 12/6/2023 3:42 pm

Compound #21: 1254-4



Original Peak Response = 3127539



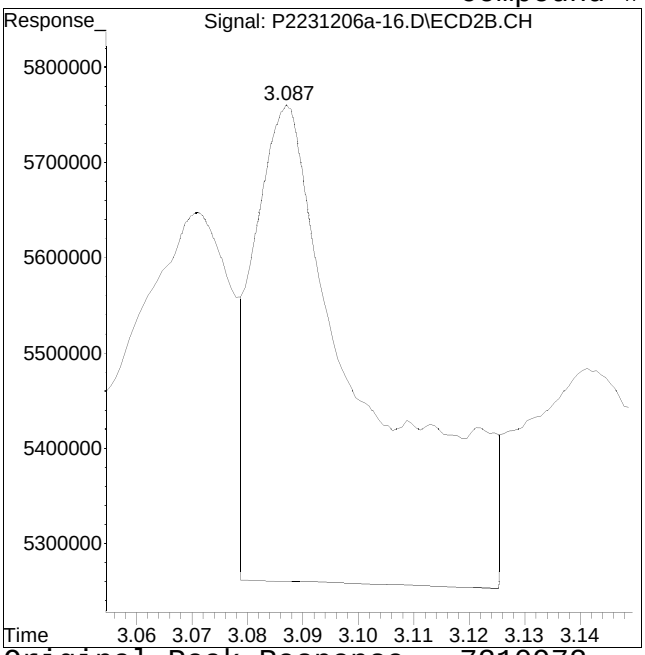
Manual Peak Response = 2456751 M4

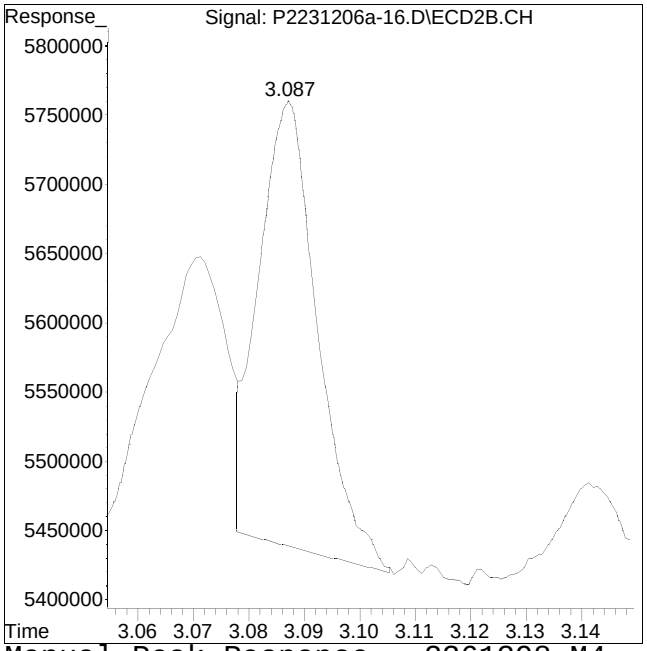
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-16.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:32 pm Instrument : Pest 2
Sample : L2370783-05,42,, Quant Date : 12/6/2023 3:42 pm

Compound #72: 1254-4 #2



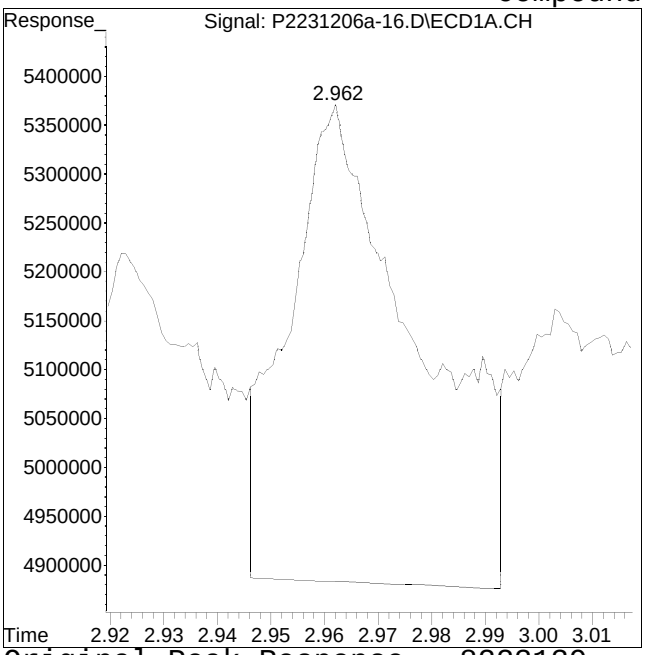


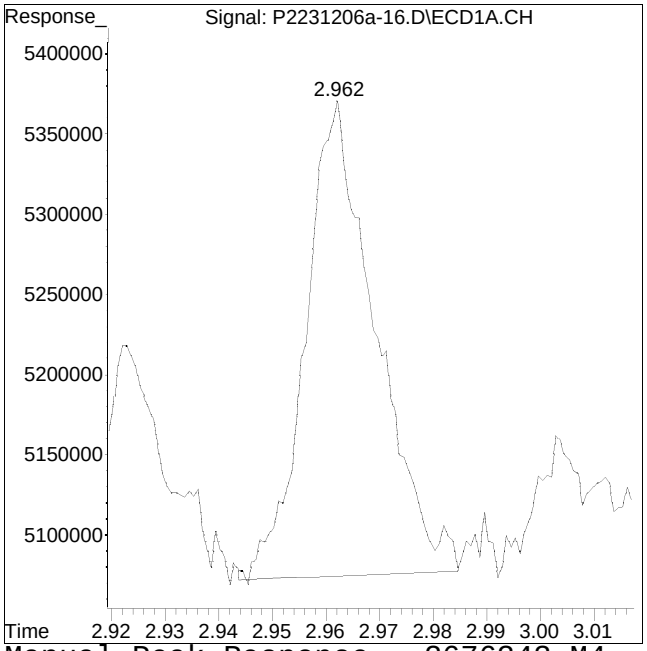
Original Peak Response = 7210972 Manual Peak Response = 2361398 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-16.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:32 pm Instrument : Pest 2
Sample : L2370783-05,42,, Quant Date : 12/6/2023 3:42 pm

Compound #22: 1254-5



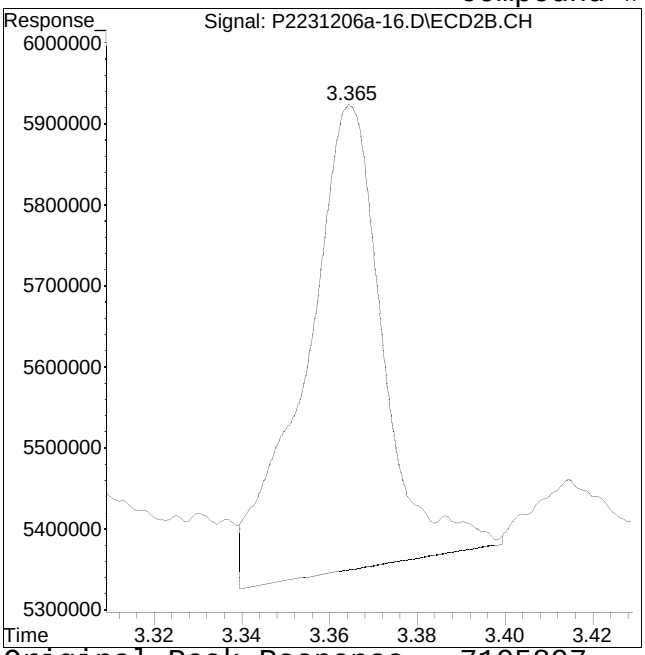


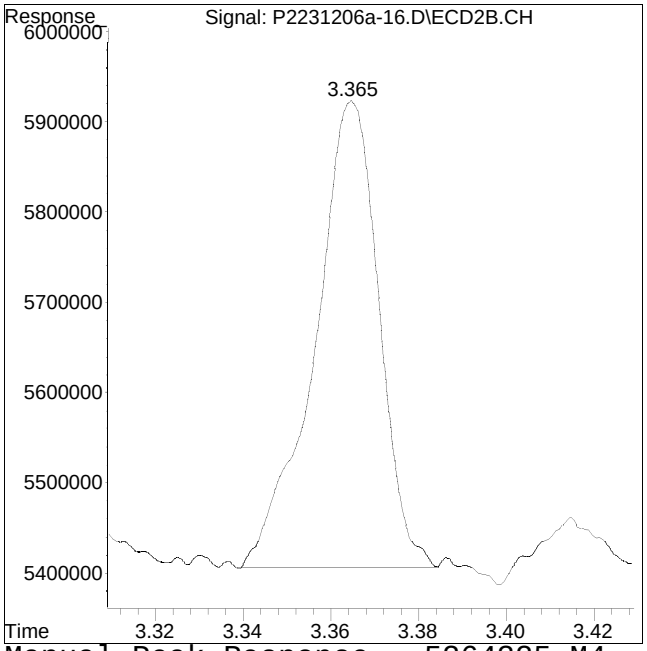
Original Peak Response = 8223139 Manual Peak Response = 2676343 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-16.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:32 pm Instrument : Pest 2
Sample : L2370783-05,42,, Quant Date : 12/6/2023 3:42 pm

Compound #73: 1254-5 #2





Original Peak Response = 7105897 Manual Peak Response = 5264325 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:41 pm
Operator : pest2:meo
Sample : L2370783-06,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:02:29 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.183	1.252	207.3E6	278.8E6	25.000M4	25.000
	Standard Area 1 : #1 = 206843320				Recovery = 100.22%		
	Standard Area 1 : #2 = 303600275				Recovery = 91.82%		
14) i	2154_1br2nb	1.183	1.252	207.3E6	278.8E6	25.000M4	25.000
23) i	4268_1br2nb	1.183	1.252	207.3E6	278.8E6	25.000M4	25.000
34) i	1248_1br2nb	1.183	1.252	207.3E6	278.8E6	25.000M4	25.000
40) i	3262_1br2nb	1.183	1.252	207.3E6	278.8E6	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.464	1.622	162.1E6	262.5E6	12.830M4	14.183
	Spiked Amount 20.000	Range 30 - 150		Recovery = 64.15%		70.91%	
3) s	Decachlorobi	4.027	4.548	153.9E6	175.8E6	13.528	13.795
	Spiked Amount 20.000	Range 30 - 150		Recovery = 67.64%		68.97%	
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:41 pm
Operator : pest2:meo
Sample : L2370783-06,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:02:29 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:41 pm
Operator : pest2:meo
Sample : L2370783-06,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:02:29 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

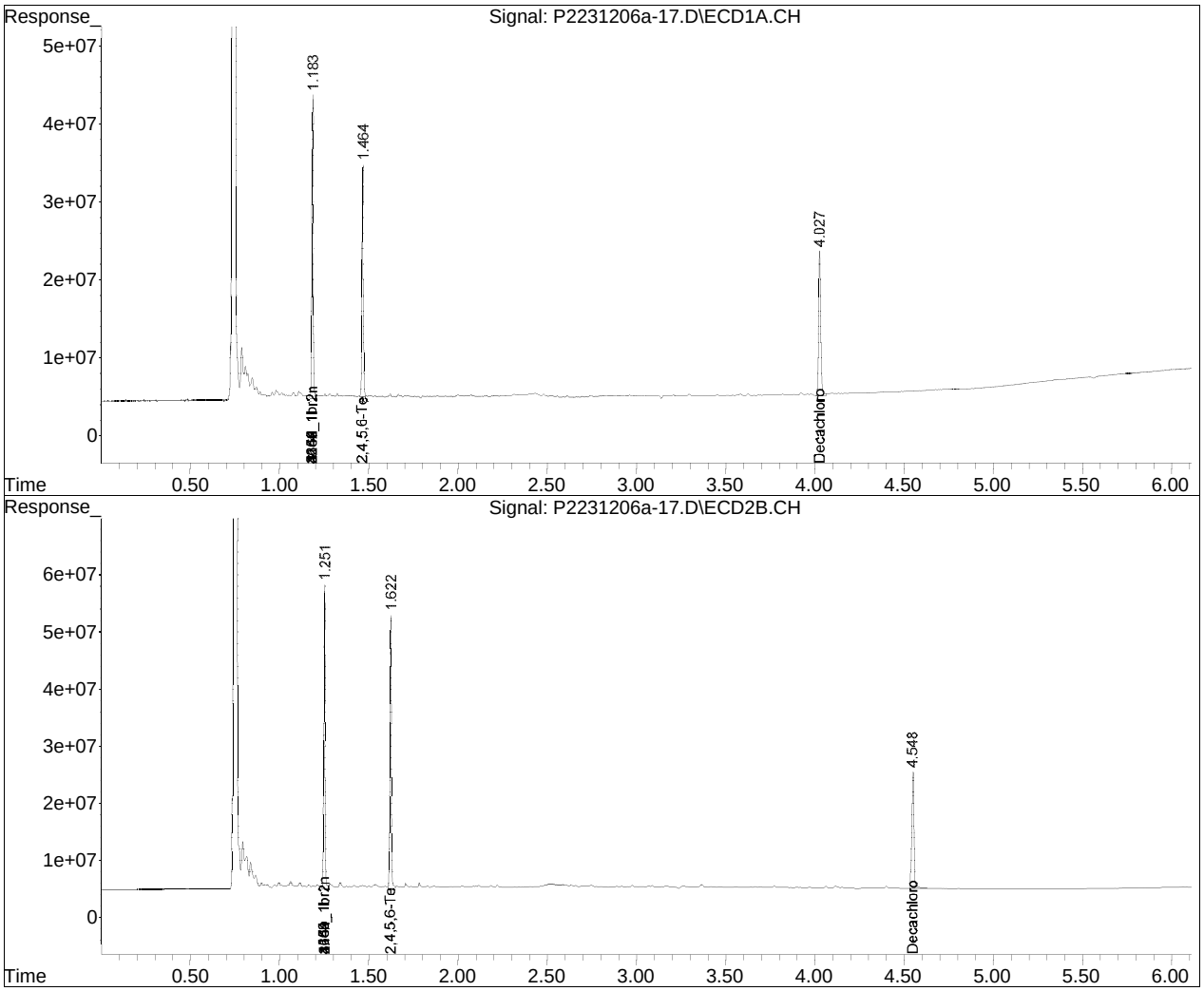
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:41 pm
Operator : pest2:meo
Sample : L2370783-06,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:02:29 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

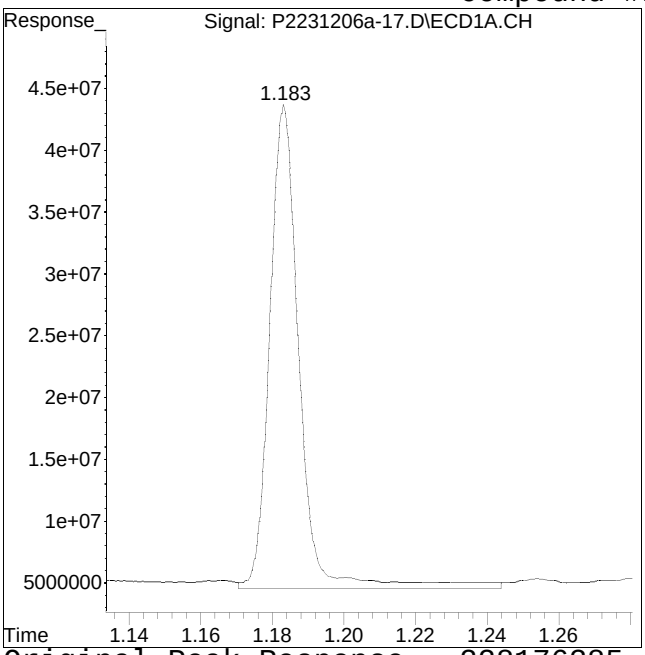
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

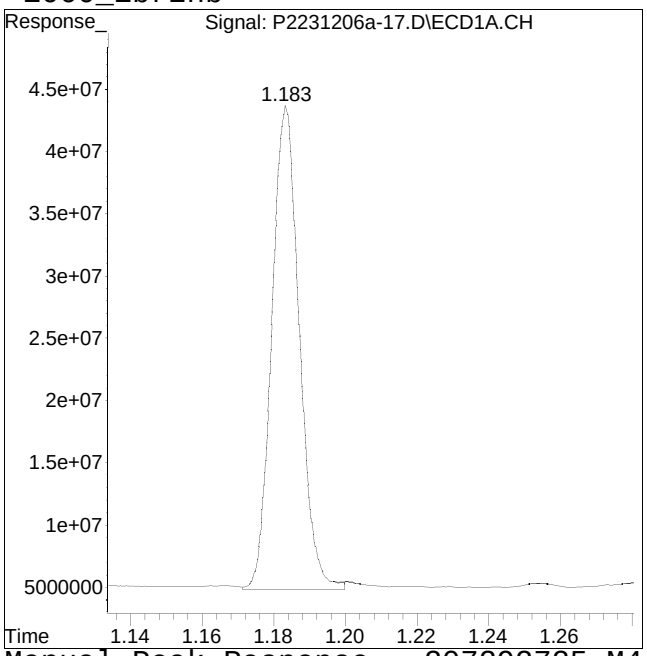


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-17.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:41 pm Instrument : Pest 2
Sample : L2370783-06,42,, Quant Date : 12/6/2023 3:42 pm

Compound #1: 1660_1br2nb



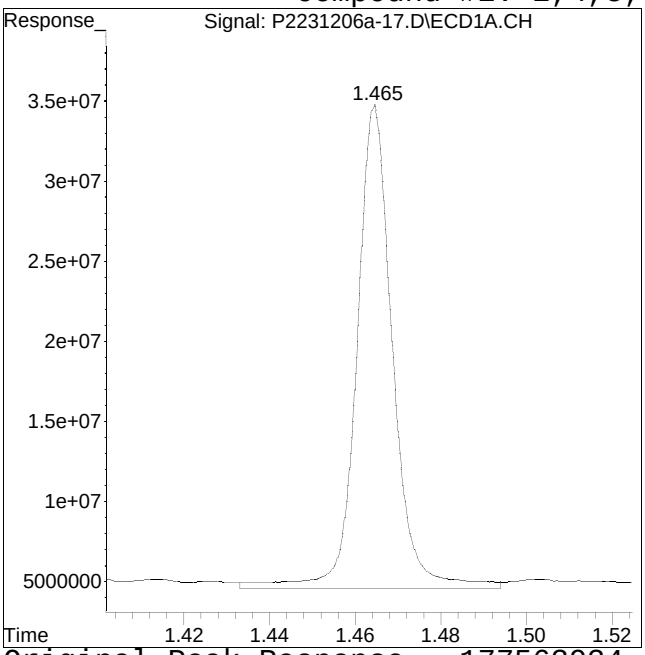


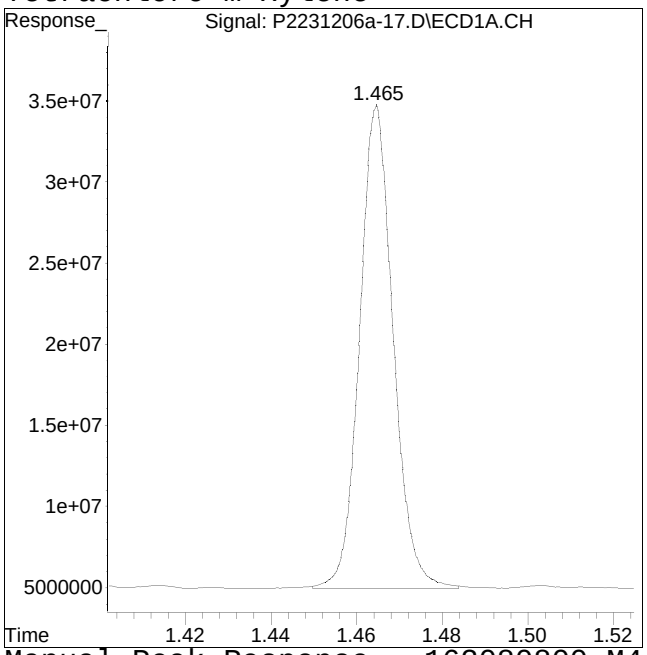
Original Peak Response = 228176385 Manual Peak Response = 207292725 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-17.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:41 pm Instrument : Pest 2
Sample : L2370783-06,42,, Quant Date : 12/6/2023 3:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





Original Peak Response = 177563934 Manual Peak Response = 162080800 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:50 pm
Operator : pest2:meo
Sample : L2370783-07,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:03:50 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.184	1.252	201.7E6	276.7E6	25.000M4	25.000
	Standard Area 1 : #1 = 206843320				Recovery =	97.50%	
	Standard Area 1 : #2 = 303600275				Recovery =	91.13%	
14) i	2154_1br2nb	1.184	1.252	201.7E6	276.7E6	25.000M4	25.000
23) i	4268_1br2nb	1.184	1.252	201.7E6	276.7E6	25.000M4	25.000
34) i	1248_1br2nb	1.184	1.252	201.7E6	276.7E6	25.000M4	25.000
40) i	3262_1br2nb	1.184	1.252	201.7E6	276.7E6	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.465	1.623	142.9E6	229.6E6	11.626M4	12.497
	Spiked Amount 20.000	Range 30 - 150			Recovery =	58.13%	62.48%
3) s	Decachlorobi	4.028	4.549	148.5E6	170.9E6	13.415	13.514
	Spiked Amount 20.000	Range 30 - 150			Recovery =	67.07%	67.57%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:50 pm
Operator : pest2:meo
Sample : L2370783-07,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:03:50 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:50 pm
Operator : pest2:meo
Sample : L2370783-07,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:03:50 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

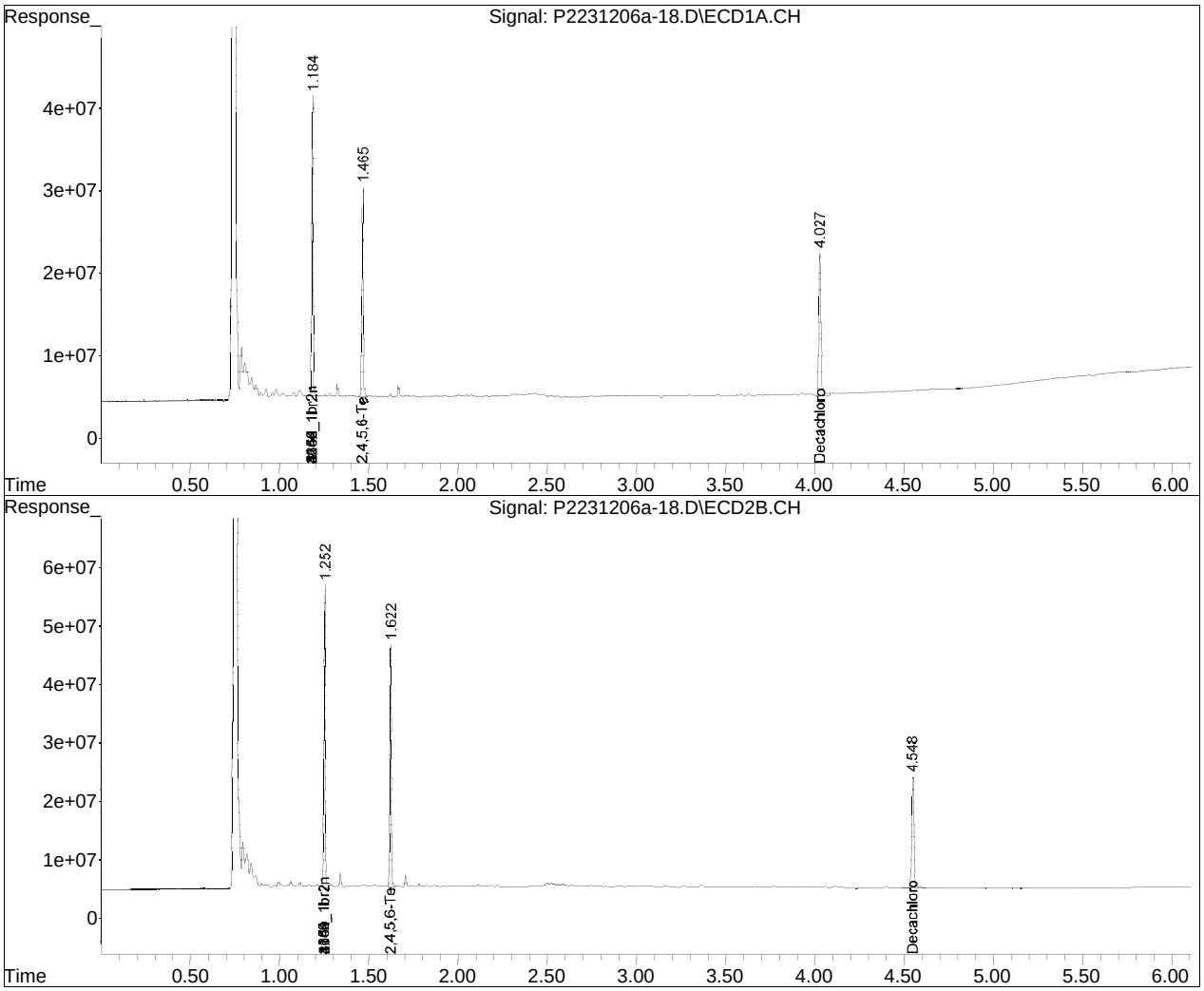
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-18.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:50 pm
Operator : pest2:meo
Sample : L2370783-07,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:03:50 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

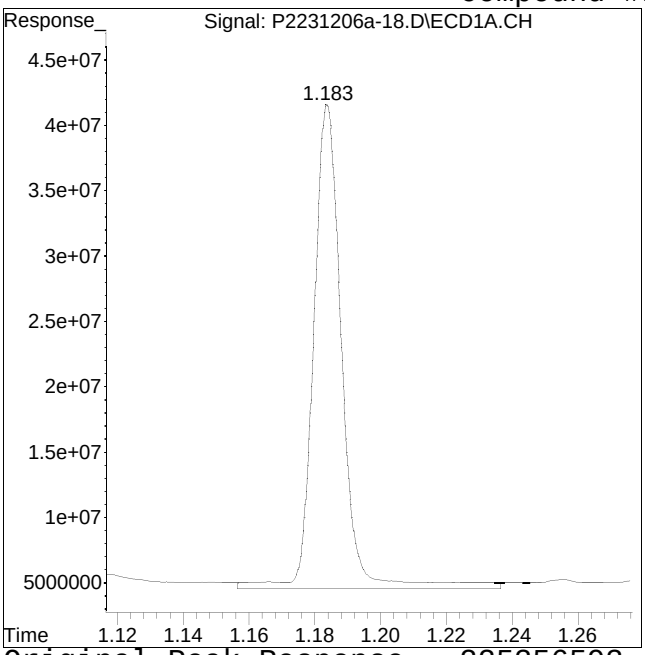
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

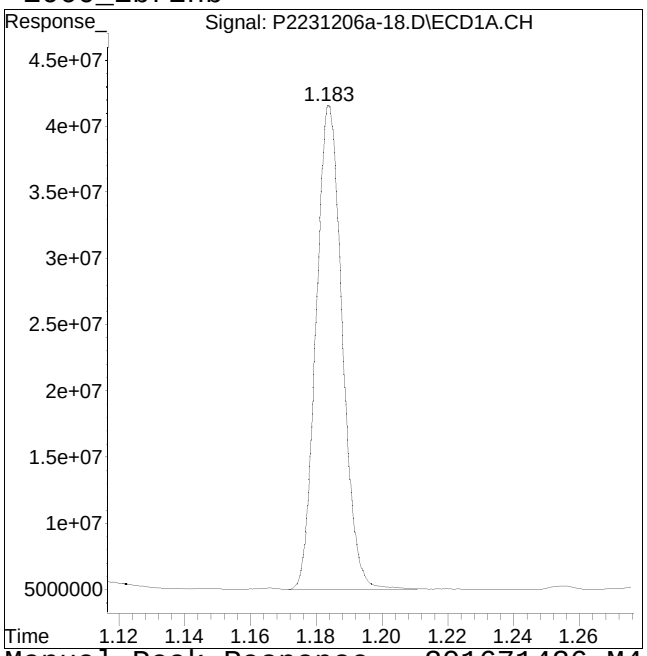


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-18.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:50 pm Instrument : Pest 2
Sample : L2370783-07,42,, Quant Date : 12/6/2023 3:42 pm

Compound #1: 1660_1br2nb



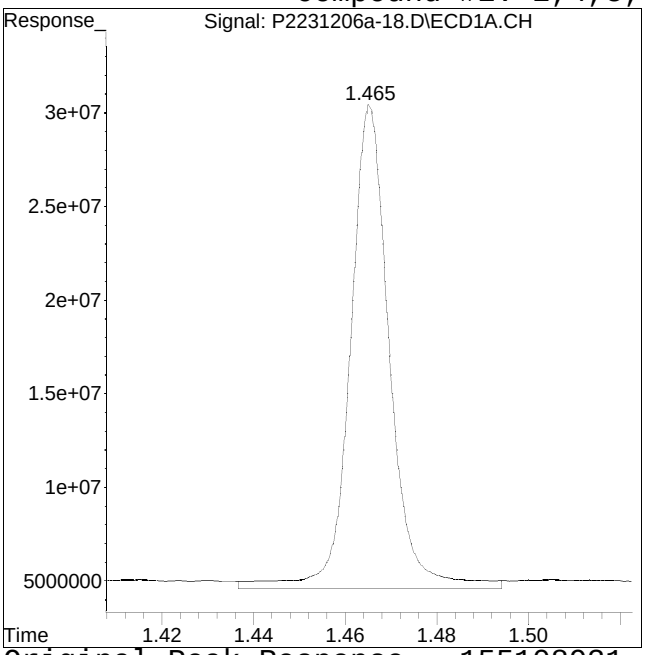


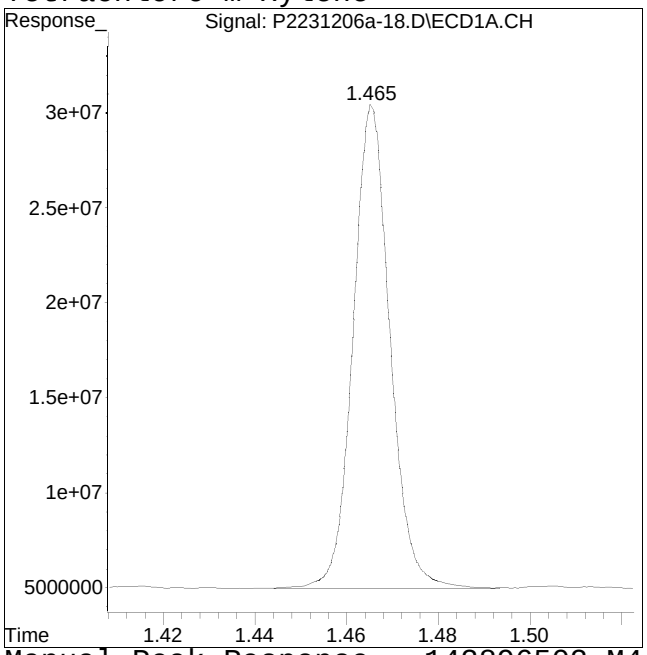
Original Peak Response = 225356593 Manual Peak Response = 201671426 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-18.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:50 pm Instrument : Pest 2
Sample : L2370783-07,42,, Quant Date : 12/6/2023 3:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





Original Peak Response = 155108931 Manual Peak Response = 142896502 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:00 pm
Operator : pest2:meo
Sample : L2370783-09,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:05:30 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.183	1.252	204.4E6	276.4E6	25.000M4	25.000
	Standard Area 1 : #1 = 206843320				Recovery =	98.83%	
	Standard Area 1 : #2 = 303600275				Recovery =	91.04%	
14) i	2154_1br2nb	1.183	1.252	204.4E6	276.4E6	25.000M4	25.000
23) i	4268_1br2nb	1.183	1.252	204.4E6	276.4E6	25.000M4	25.000
34) i	1248_1br2nb	1.183	1.252	204.4E6	276.4E6	25.000M4	25.000
40) i	3262_1br2nb	1.183	1.252	204.4E6	276.4E6	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.465	1.623	152.9E6	232.2E6	12.274	12.655
	Spiked Amount 20.000	Range 30 - 150			Recovery =	61.37%	63.27%
3) s	Decachlorobi	4.027	4.548	149.6E6	175.7E6	13.337	13.907
	Spiked Amount 20.000	Range 30 - 150			Recovery =	66.68%	69.53%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:00 pm
Operator : pest2:meo
Sample : L2370783-09,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:05:30 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:00 pm
Operator : pest2:meo
Sample : L2370783-09,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:05:30 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D.	N.D.
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

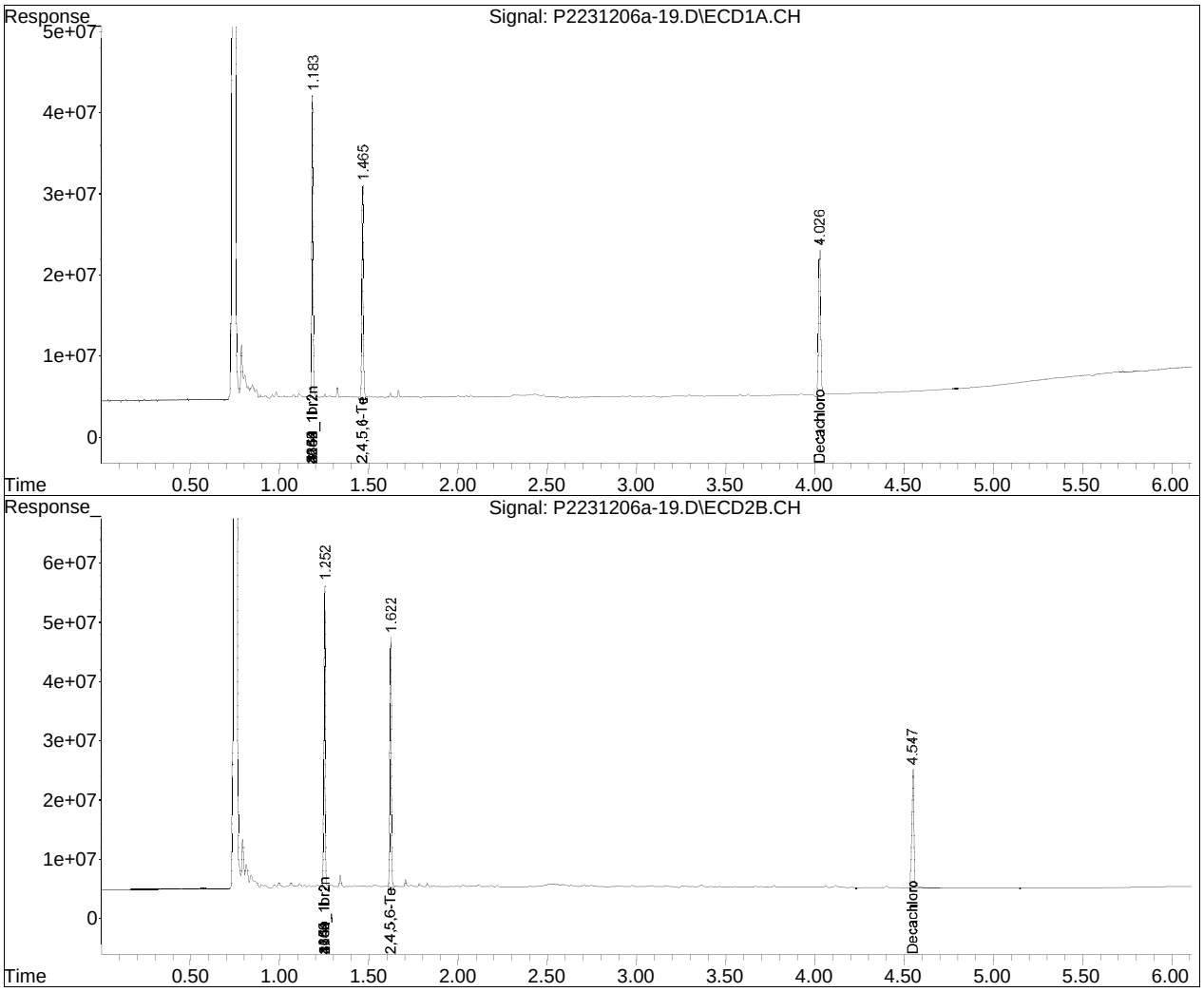
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-19.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:00 pm
Operator : pest2:meo
Sample : L2370783-09,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:05:30 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

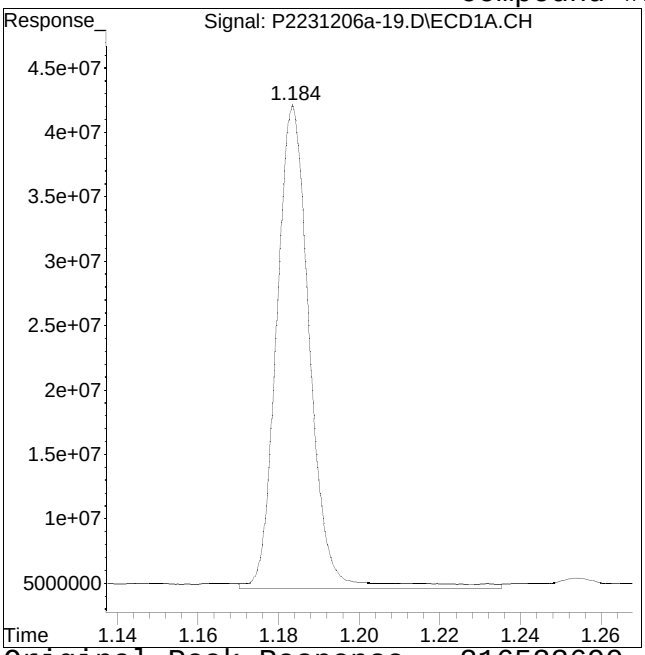
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

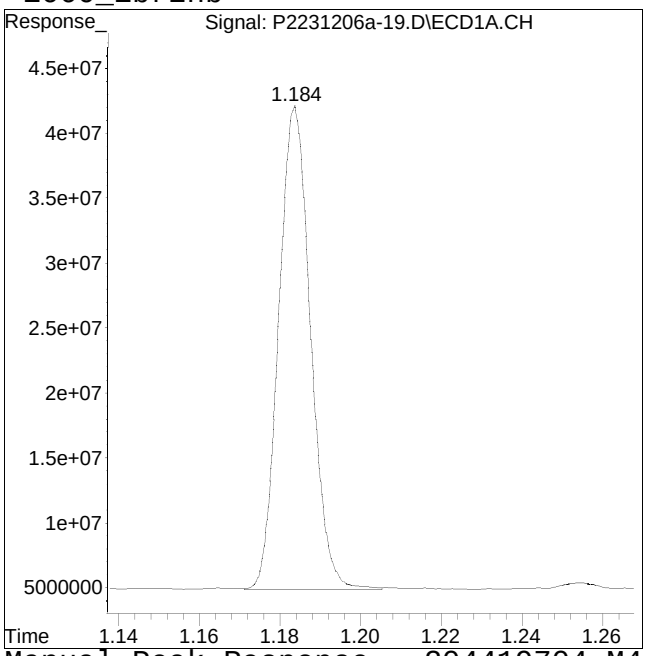


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-19.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:00 pm Instrument : Pest 2
Sample : L2370783-09,42,, Quant Date : 12/6/2023 3:42 pm

Compound #1: 1660_1br2nb





Original Peak Response = 216523690 Manual Peak Response = 204419704 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:09 pm
Operator : pest2:meo
Sample : L2370783-11,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:06:18 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.183	1.252	211.6E6	285.2E6	25.000M4	25.000
	Standard Area 1 : #1 = 206843320				Recovery = 102.28%		
	Standard Area 1 : #2 = 303600275				Recovery = 93.93%		
14) i	2154_1br2nb	1.183	1.252	211.6E6	285.2E6	25.000M4	25.000
23) i	4268_1br2nb	1.183	1.252	211.6E6	285.2E6	25.000M4	25.000
34) i	1248_1br2nb	1.183	1.252	211.6E6	285.2E6	25.000M4	25.000
40) i	3262_1br2nb	1.183	1.252	211.6E6	285.2E6	25.000M4	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.465	1.622	156.8E6	250.6E6	12.157M4	13.236M4
	Spiked Amount 20.000	Range 30 - 150			Recovery = 60.78%		66.18%
3) s	Decachlorobi	4.027	4.548	148.0E6	170.2E6	12.747	13.056
	Spiked Amount 20.000	Range 30 - 150			Recovery = 63.73%		65.28%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1						0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1						0.000	0.000

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:09 pm
Operator : pest2:meo
Sample : L2370783-11,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:06:18 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D.	N.D.
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:09 pm
Operator : pest2:meo
Sample : L2370783-11,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:06:18 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

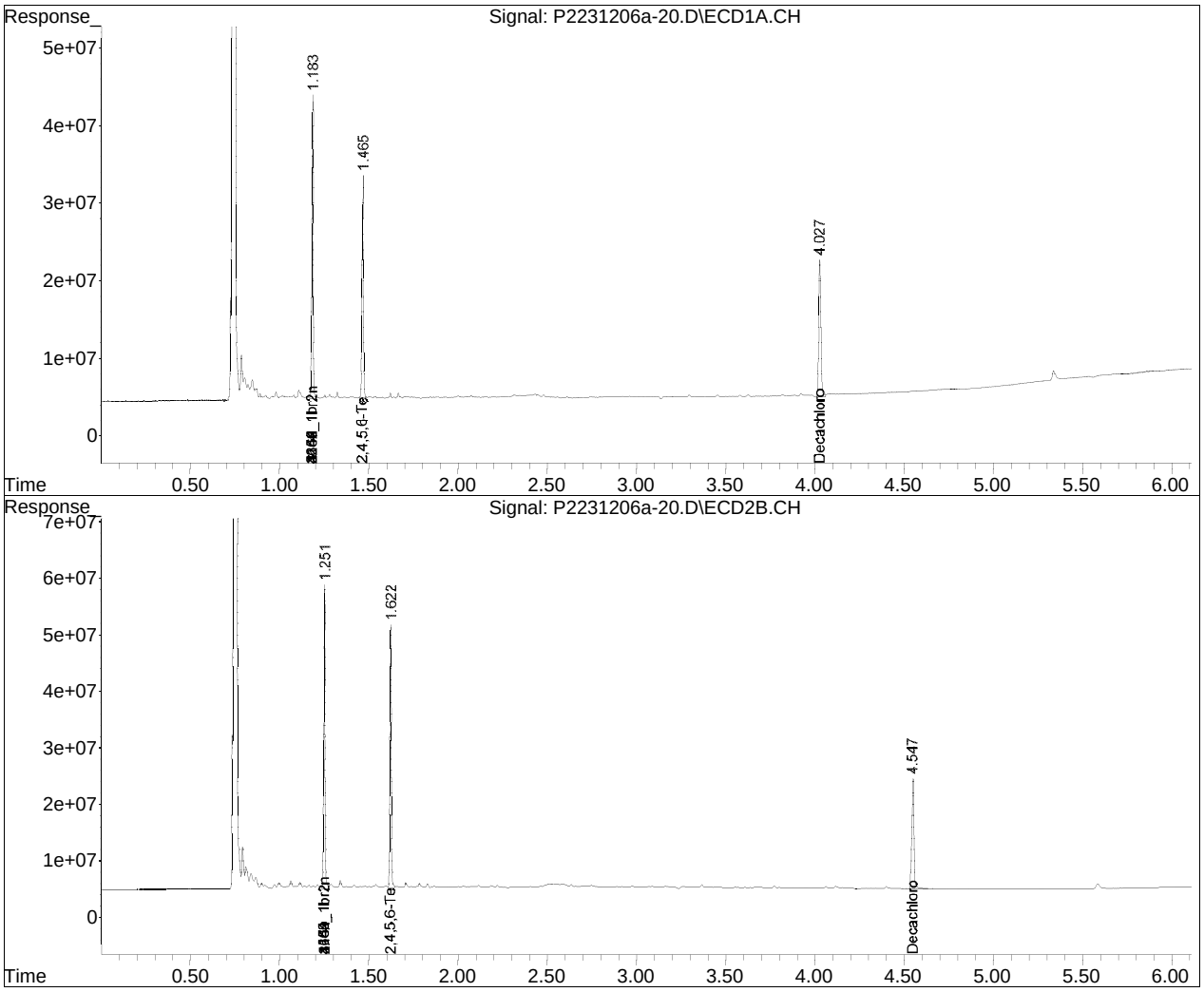
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedP2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-20.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:09 pm
Operator : pest2:meo
Sample : L2370783-11,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:06:18 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

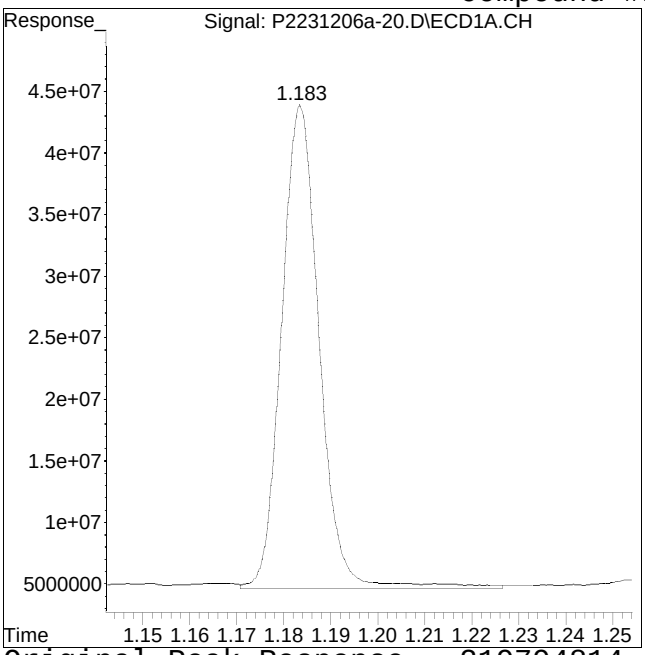
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

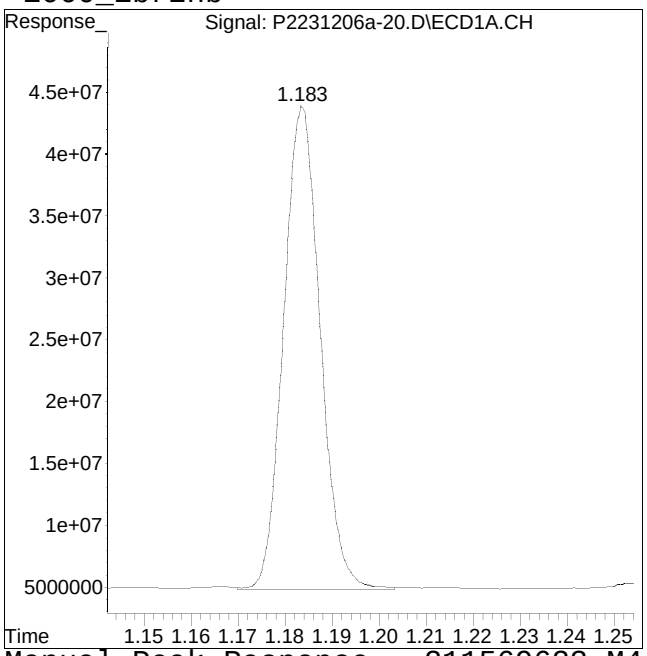


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-20.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:09 pm Instrument : Pest 2
Sample : L2370783-11,42,, Quant Date : 12/6/2023 3:42 pm

Compound #1: 1660_1br2nb



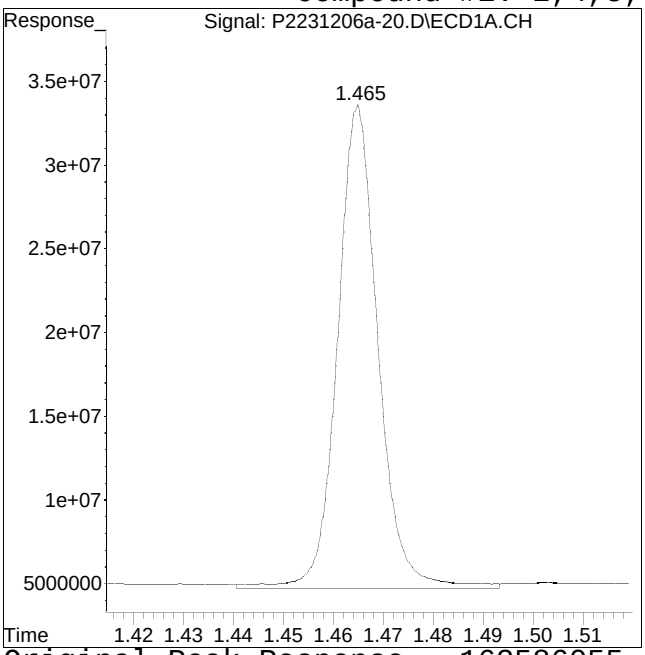


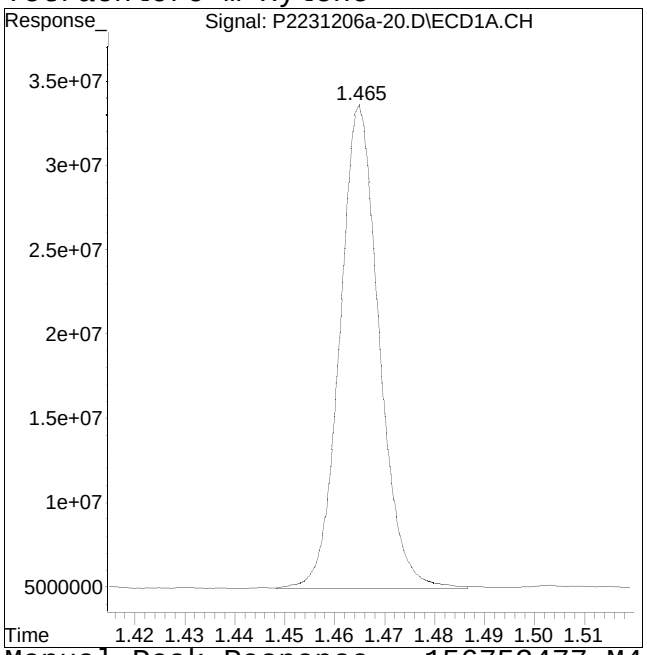
Original Peak Response = 219794814 Manual Peak Response = 211569623 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-20.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:09 pm Instrument : Pest 2
Sample : L2370783-11,42,, Quant Date : 12/6/2023 3:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



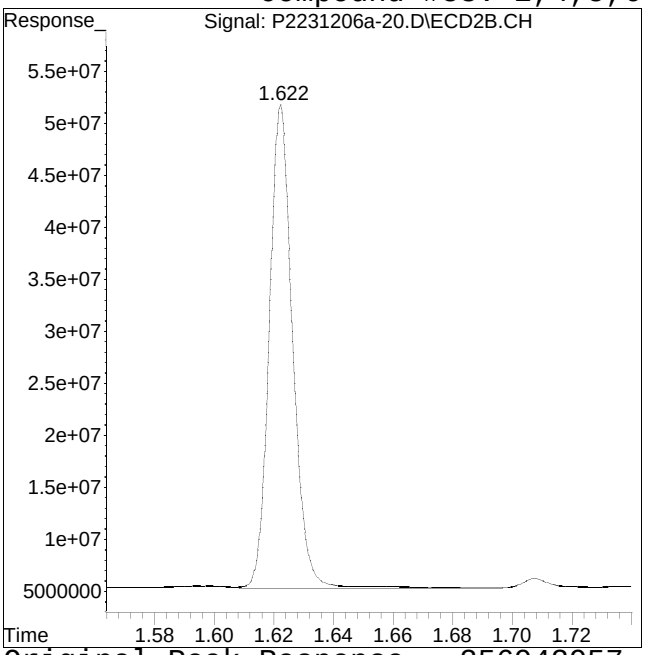


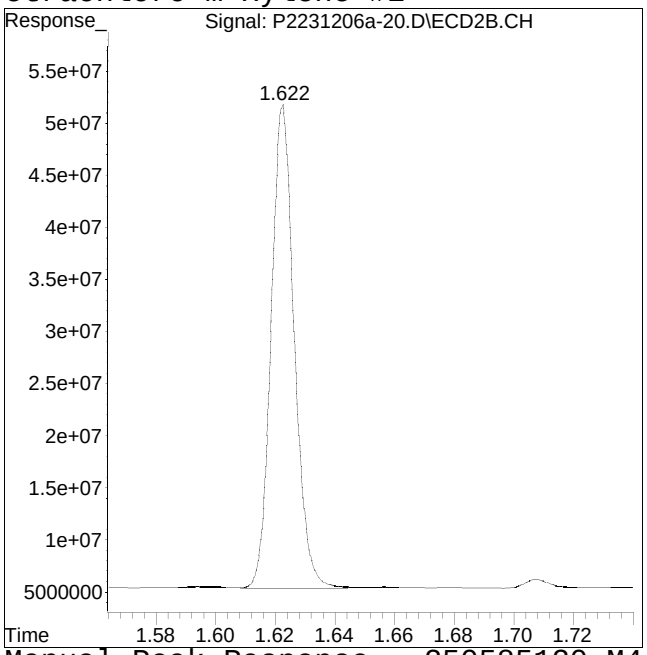
Original Peak Response = 163586055 Manual Peak Response = 156753477 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-20.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:09 pm Instrument : Pest 2
Sample : L2370783-11,42,, Quant Date : 12/6/2023 3:42 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2





Original Peak Response = 256942957 Manual Peak Response = 250585120 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:47 pm
Operator : pest2:meo
Sample : L2370783-08,42,,
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:08:22 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.184	1.252	240.3E6	288.7E6	25.000	25.000
Standard Area 1 : #1 = 206843320				Recovery =	116.17%	
Standard Area 1 : #2 = 303600275				Recovery =	95.09%	
14) i 2154_1br2nb	1.184	1.252	240.3E6	288.7E6	25.000	25.000
23) i 4268_1br2nb	1.184	1.252	240.3E6	288.7E6	25.000	25.000
34) i 1248_1br2nb	1.184	1.252	240.3E6	288.7E6	25.000	25.000
40) i 3262_1br2nb	1.184	1.252	240.3E6	288.7E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.465	1.623	188.1E6	291.6E6	12.843M4	15.213
Spiked Amount 20.000	Range 30 - 150		Recovery =	64.22%	76.06%	
3) s Decachlorobi	4.028	4.548	165.4E6	188.6E6	12.542	14.292
Spiked Amount 20.000	Range 30 - 150		Recovery =	62.71%	71.46%	
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:47 pm
Operator : pest2:meo
Sample : L2370783-08,42,,
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:08:22 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:47 pm
Operator : pest2:meo
Sample : L2370783-08,42,,
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:08:22 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

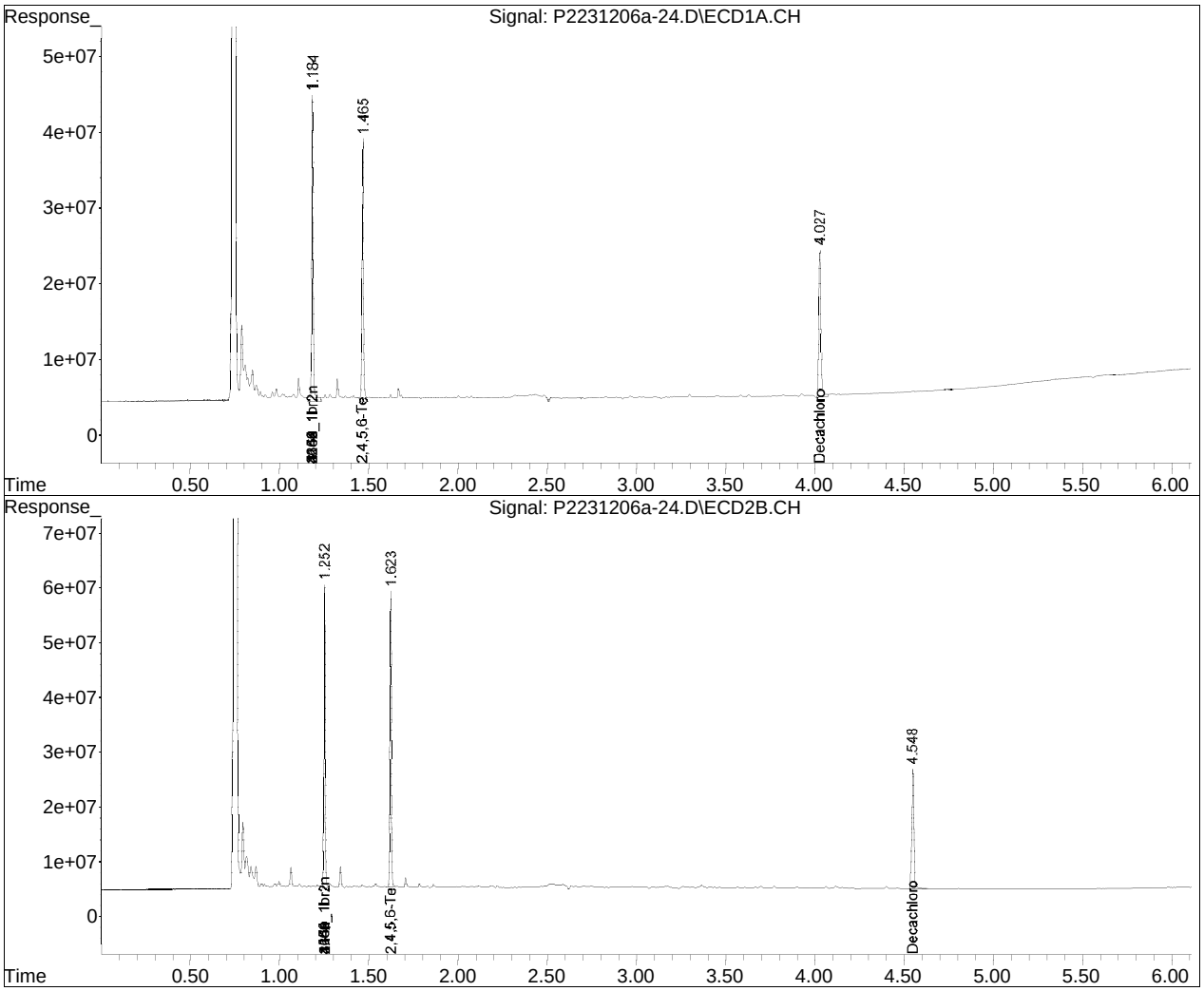
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-24.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:47 pm
Operator : pest2:meo
Sample : L2370783-08,42,,
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:08:22 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

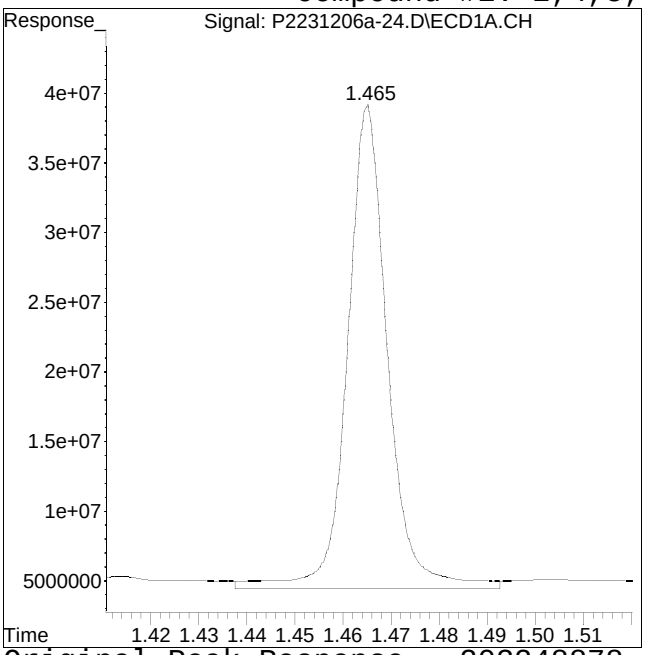
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

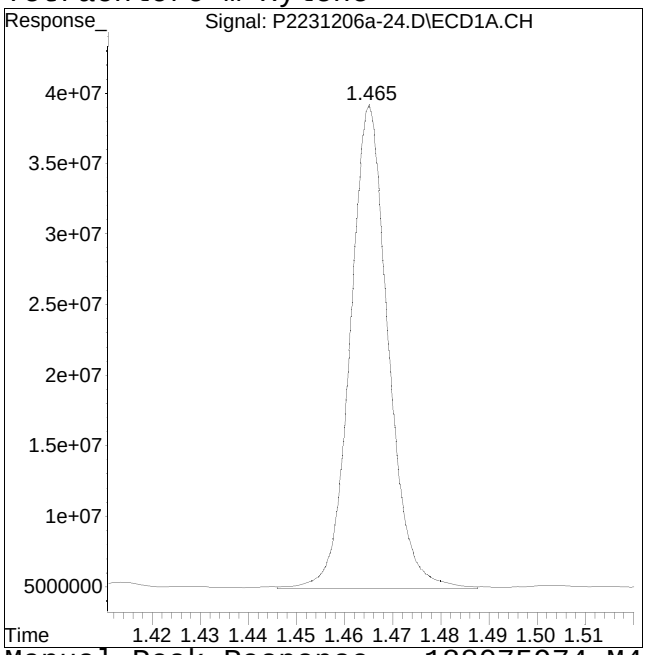


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-24.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:47 pm Instrument : Pest 2
Sample : L2370783-08,42,, Quant Date : 12/6/2023 3:43 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





Original Peak Response = 203248878 Manual Peak Response = 188075974 M4
M4 = Poor automated baseline construction.

Aroclor Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL20537**
Calibration dates	**: 11/09/23 13:05 11/09/23 14:24**		

Calibration Files
1 =P2231109i-07.D 2 =P2231109i-08.D 3 =P2231109i-09.D 4 =P2231109i-10.D 5 =P2231109i-11.D
6 =P2231109i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	ISTD							
2)	s	2,4,5,6-Tetra	1.558	1.455	1.471	1.530	1.592	1.536	1.524	3.42
3)	s	Decachlorobip	1.488	1.380	1.359	1.376	1.353	1.276	1.372	4.98
4)	l1	1016-1	0.030	0.028	0.027	0.026	0.026	0.024	0.027	7.23
5)	l1	1016-2	0.058	0.056	0.055	0.052	0.051	0.048	0.053	7.00
6)	l1	1016-3	0.124	0.117	0.115	0.117	0.121	0.115	0.118	3.10
7)	l1	1016-4	0.057	0.051	0.049	0.050	0.050	0.048	0.051	6.48
8)	l1	1016-5	0.058	0.053	0.051	0.050	0.051	0.049	0.052	6.07
9)	l2	1260-1	0.081	0.077	0.075	0.076	0.075	0.071	0.076	4.02
10)	l2	1260-2	0.123	0.118	0.115	0.114	0.116	0.110	0.116	3.67
11)	l2	1260-3	0.083	0.078	0.077	0.075	0.076	0.075	0.077	4.04
12)	l2	1260-4	0.162	0.159	0.162	0.162	0.166	0.163	0.162	1.36
13)	l2	1260-5	0.123	0.121	0.117	0.118	0.122	0.118	0.120	2.09
14)	i	2154_1br2nb	ISTD							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.010			0.010	0.00
17)	l3	1221-4				0.038			0.038	0.00
18)	l4	1254-1				0.052			0.052	0.00
19)	l4	1254-2				0.095			0.095	0.00
20)	l4	1254-3				0.099			0.099	0.00
21)	l4	1254-4				0.073			0.073	0.00
22)	l4	1254-5				0.106			0.106	0.00
23)	i	4268_1br2nb	ISTD							
24)	l6	1242-1				0.021			0.021	0.00
25)	l6	1242-2				0.042			0.042	0.00
26)	l6	1242-3				0.094			0.094	0.00
27)	l6	1242-4				0.040			0.040	0.00
28)	l6	1242-5				0.031			0.031	0.00
29)	l9	1268-1				0.219			0.219	0.00
30)	l9	1268-2				0.206			0.206	0.00
31)	l9	1268-3				0.167			0.167	0.00
32)	l9	1268-4				0.074			0.074	0.00
33)	l9	1268-5				0.491			0.491	0.00
34)	i	1248_1br2nb	ISTD							
35)	l7	1248-1				0.055			0.055	0.00
36)	l7	1248-2				0.068			0.068	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL20537**
Calibration dates	**: 11/09/23 13:05 11/09/23 14:24**		

Calibration Files
1 =P2231109i-07.D 2 =P2231109i-08.D 3 =P2231109i-09.D 4 =P2231109i-10.D 5 =P2231109i-11.D
6 =P2231109i-12.D

Compound	1	2	3	4	5	6	Avg	%RSD
37) l7 1248-3				0.063			0.063	0.00
38) l7 1248-4				0.056			0.056	0.00
39) l7 1248-5				0.052			0.052	0.00
40) i 3262_1br2nb				----------ISTD----------				
41) l5 1232-1				0.028			0.028	0.00
42) l5 1232-2				0.024			0.024	0.00
43) l5 1232-3				0.052			0.052	0.00
44) l5 1232-4				0.022			0.022	0.00
45) l5 1232-5				0.015			0.015	0.00
46) l8 1262-1				0.074			0.074	0.00
47) l8 1262-2				0.094			0.094	0.00
48) l8 1262-3				0.085			0.085	0.00
49) l8 1262-4				0.174			0.174	0.00
50) l8 1262-5				0.058			0.058	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL20537**
Calibration dates	**: 11/09/23 13:05 11/09/23 14:24**		

Signal #2 Calibration Files

1 =P2231109i-07.D 2 =P2231109i-08.D 3 =P2231109i-09.D 4 =P2231109i-10.D 5 =P2231109i-11.D

6 =P2231109i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.834	1.648	1.637	1.583	1.644	1.612	1.660	5.36
3)	s	Decachlorobip	1.346	1.209	1.160	1.056	1.059	1.027	1.143	10.65
4)	l1	1016-1	0.034	0.031	0.030	0.027	0.027	0.025	0.029	11.56
5)	l1	1016-2	0.077	0.070	0.067	0.061	0.059	0.055	0.065	12.40
6)	l1	1016-3	0.147	0.130	0.132	0.120	0.122	0.115	0.128	8.85
7)	l1	1016-4	0.063	0.055	0.057	0.050	0.050	0.046	0.053	11.83
8)	l1	1016-5	0.052	0.043	0.042	0.039	0.040	0.037	0.042	12.30
9)	l2	1260-1	0.087	0.082	0.080	0.074	0.073	0.073	0.078	7.80
10)	l2	1260-2	0.100	0.094	0.094	0.086	0.086	0.086	0.091	6.40
11)	l2	1260-3	0.090	0.081	0.076	0.071	0.071	0.069	0.076	10.52
12)	l2	1260-4	0.164	0.154	0.151	0.143	0.145	0.144	0.150	5.35
13)	l2	1260-5	0.120	0.107	0.104	0.098	0.097	0.095	0.104	8.88
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.019			0.019	0.00
16)	l3	1221-3				0.011			0.011	0.00
17)	l3	1221-4				0.040			0.040	0.00
18)	l4	1254-1				0.062			0.062	0.00
19)	l4	1254-2				0.072			0.072	0.00
20)	l4	1254-3				0.108			0.108	0.00
21)	l4	1254-4				0.069			0.069	0.00
22)	l4	1254-5				0.097			0.097	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.023			0.023	0.00
25)	l6	1242-2				0.049			0.049	0.00
26)	l6	1242-3				0.096			0.096	0.00
27)	l6	1242-4				0.041			0.041	0.00
28)	l6	1242-5				0.031			0.031	0.00
29)	l9	1268-1				0.183			0.183	0.00
30)	l9	1268-2				0.167			0.167	0.00
31)	l9	1268-3				0.123			0.123	0.00
32)	l9	1268-4				0.059			0.059	0.00
33)	l9	1268-5				0.405			0.405	0.00
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.062			0.062	0.00
36)	l7	1248-2				0.041			0.041	0.00

Initial Calibration Summary
Form 6
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST2**	**Ical Ref**	**: ICAL20537**
Calibration dates	**: 11/09/23 13:05 11/09/23 14:24**		

Signal #2 Calibration Files

1 =P2231109i-07.D 2 =P2231109i-08.D 3 =P2231109i-09.D 4 =P2231109i-10.D 5 =P2231109i-11.D

6 =P2231109i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
37) l7	1248-3				0.052			0.052	0.00
38) l7	1248-4				0.056			0.056	0.00
39) l7	1248-5				0.063			0.063	0.00
40) i	3262_1br2nb				----------ISTD----------				
41) l5	1232-1				0.031			0.031	0.00
42) l5	1232-2				0.031			0.031	0.00
43) l5	1232-3				0.057			0.057	0.00
44) l5	1232-4				0.024			0.024	0.00
45) l5	1232-5				0.017			0.017	0.00
46) l8	1262-1				0.066			0.066	0.00
47) l8	1262-2				0.087			0.087	0.00
48) l8	1262-3				0.083			0.083	0.00
49) l8	1262-4				0.154			0.154	0.00
50) l8	1262-5				0.053			0.053	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2023\231109I\
Method File : P2_pcb_11_09_23_LVI_ugL_ICAL.m
Title : pcb
Last Update : Thu Nov 09 16:07:24 2023
Response Via : Initial Calibration

Calibration Files
1 =P2231109i-07.D 2 =P2231109i-08.D 3 =P2231109i-09.D 4 =P2231109i-10.D 5 =P2231109i-11.D
6 =P2231109i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.558	1.455	1.471	1.530	1.592	1.536	1.524	3.42
3)	s	Decachlorobip...	1.488	1.380	1.359	1.376	1.353	1.276	1.372	4.98
4)	l1	1016-1	0.030	0.028	0.027	0.026	0.026	0.024	0.027	7.23
5)	l1	1016-2	0.058	0.056	0.055	0.052	0.051	0.048	0.053	7.00
6)	l1	1016-3	0.124	0.117	0.115	0.117	0.121	0.115	0.118	3.10
7)	l1	1016-4	0.057	0.051	0.049	0.050	0.050	0.048	0.051	6.48
8)	l1	1016-5	0.058	0.053	0.051	0.050	0.051	0.049	0.052	6.07
9)	l2	1260-1	0.081	0.077	0.075	0.076	0.075	0.071	0.076	4.02
10)	l2	1260-2	0.123	0.118	0.115	0.114	0.116	0.110	0.116	3.67
11)	l2	1260-3	0.083	0.078	0.077	0.075	0.076	0.075	0.077	4.04
12)	l2	1260-4	0.162	0.159	0.162	0.162	0.166	0.163	0.162	1.36
13)	l2	1260-5	0.123	0.121	0.117	0.118	0.122	0.118	0.120	2.09
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.015			0.015	0.00
16)	l3	1221-3				0.010			0.010	0.00
17)	l3	1221-4				0.038			0.038	0.00
18)	l4	1254-1				0.052			0.052	0.00
19)	l4	1254-2				0.095			0.095	0.00
20)	l4	1254-3				0.099			0.099	0.00
21)	l4	1254-4				0.073			0.073	0.00
22)	l4	1254-5				0.106			0.106	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.021			0.021	0.00
25)	l6	1242-2				0.042			0.042	0.00
26)	l6	1242-3				0.094			0.094	0.00
27)	l6	1242-4				0.040			0.040	0.00
28)	l6	1242-5				0.031			0.031	0.00
29)	l9	1268-1				0.219			0.219	0.00

Method Path : I:\PCB\Pest2\2023\231109I\
Method File : P2_pcb_11_09_23_LVI_ugL_ICAL.m
Title : pcb
Last Update : Thu Nov 09 16:07:24 2023
Response Via : Initial Calibration

Calibration Files
1 =P2231109i-07.D 2 =P2231109i-08.D 3 =P2231109i-09.D 4 =P2231109i-10.D 5 =P2231109i-11.D
6 =P2231109i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
30) l9	1268-2				0.206			0.206	0.00
31) l9	1268-3				0.167			0.167	0.00
32) l9	1268-4				0.074			0.074	0.00
33) l9	1268-5				0.491			0.491	0.00
34) i	1248_1br2nb	----------ISTD----------							
35) l7	1248-1				0.055			0.055	0.00
36) l7	1248-2				0.068			0.068	0.00
37) l7	1248-3				0.063			0.063	0.00
38) l7	1248-4				0.056			0.056	0.00
39) l7	1248-5				0.052			0.052	0.00
40) i	3262_1br2nb	----------ISTD----------							
41) l5	1232-1				0.028			0.028	0.00
42) l5	1232-2				0.024			0.024	0.00
43) l5	1232-3				0.052			0.052	0.00
44) l5	1232-4				0.022			0.022	0.00
45) l5	1232-5				0.015			0.015	0.00
46) l8	1262-1				0.074			0.074	0.00
47) l8	1262-2				0.094			0.094	0.00
48) l8	1262-3				0.085			0.085	0.00
49) l8	1262-4				0.174			0.174	0.00
50) l8	1262-5				0.058			0.058	0.00

Signal #2 Calibration Files
1 =P2231109i-07.D 2 =P2231109i-08.D 3 =P2231109i-09.D 4 =P2231109i-10.D 5 =P2231109i-11.D
6 =P2231109i-12.D

	Compound	1	2	3	4	5	6	Avg	%RSD
1) i	1660_1br2nb	----------ISTD----------							
2) s	2,4,5,6-Tetra...	1.834	1.648	1.637	1.583	1.644	1.612	1.660	5.36

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2023\231109I\
Method File : P2_pcb_11_09_23_LVI_ugL_ICAL.m
Title : pcb
Last Update : Thu Nov 09 16:07:24 2023
Response Via : Initial Calibration

Calibration Files
1 =P2231109i-07.D 2 =P2231109i-08.D 3 =P2231109i-09.D 4 =P2231109i-10.D 5 =P2231109i-11.D
6 =P2231109i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
3)	s	Decachlorobip...	1.346	1.209	1.160	1.056	1.059	1.027	1.143	10.65
4)	l1	1016-1	0.034	0.031	0.030	0.027	0.027	0.025	0.029	11.56
5)	l1	1016-2	0.077	0.070	0.067	0.061	0.059	0.055	0.065	12.40
6)	l1	1016-3	0.147	0.130	0.132	0.120	0.122	0.115	0.128	8.85
7)	l1	1016-4	0.063	0.055	0.057	0.050	0.050	0.046	0.053	11.83
8)	l1	1016-5	0.052	0.043	0.042	0.039	0.040	0.037	0.042	12.30
9)	l2	1260-1	0.087	0.082	0.080	0.074	0.073	0.073	0.078	7.80
10)	l2	1260-2	0.100	0.094	0.094	0.086	0.086	0.086	0.091	6.40
11)	l2	1260-3	0.090	0.081	0.076	0.071	0.071	0.069	0.076	10.52
12)	l2	1260-4	0.164	0.154	0.151	0.143	0.145	0.144	0.150	5.35
13)	l2	1260-5	0.120	0.107	0.104	0.098	0.097	0.095	0.104	8.88
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2				0.019			0.019	0.00
16)	l3	1221-3				0.011			0.011	0.00
17)	l3	1221-4				0.040			0.040	0.00
18)	l4	1254-1				0.062			0.062	0.00
19)	l4	1254-2				0.072			0.072	0.00
20)	l4	1254-3				0.108			0.108	0.00
21)	l4	1254-4				0.069			0.069	0.00
22)	l4	1254-5				0.097			0.097	0.00
23)	i	4268_1br2nb	----------ISTD----------							
24)	l6	1242-1				0.023			0.023	0.00
25)	l6	1242-2				0.049			0.049	0.00
26)	l6	1242-3				0.096			0.096	0.00
27)	l6	1242-4				0.041			0.041	0.00
28)	l6	1242-5				0.031			0.031	0.00
29)	l9	1268-1				0.183			0.183	0.00
30)	l9	1268-2				0.167			0.167	0.00
31)	l9	1268-3				0.123			0.123	0.00
32)	l9	1268-4				0.059			0.059	0.00
33)	l9	1268-5				0.405			0.405	0.00

Response Factor Report Pest 2

Method Path : I:\PCB\Pest2\2023\231109I\
Method File : P2_pcb_11_09_23_LVI_ugL_ICAL.m
Title : pcb
Last Update : Thu Nov 09 16:07:24 2023
Response Via : Initial Calibration

Calibration Files
1 =P2231109i-07.D 2 =P2231109i-08.D 3 =P2231109i-09.D 4 =P2231109i-10.D 5 =P2231109i-11.D
6 =P2231109i-12.D

		Compound	1	2	3	4	5	6	Avg	%RSD
34)	i	1248_1br2nb	----------ISTD----------							
35)	l7	1248-1				0.062			0.062	0.00
36)	l7	1248-2				0.041			0.041	0.00
37)	l7	1248-3				0.052			0.052	0.00
38)	l7	1248-4				0.056			0.056	0.00
39)	l7	1248-5				0.063			0.063	0.00
40)	i	3262_1br2nb	----------ISTD----------							
41)	l5	1232-1				0.031			0.031	0.00
42)	l5	1232-2				0.031			0.031	0.00
43)	l5	1232-3				0.057			0.057	0.00
44)	l5	1232-4				0.024			0.024	0.00
45)	l5	1232-5				0.017			0.017	0.00
46)	l8	1262-1				0.066			0.066	0.00
47)	l8	1262-2				0.087			0.087	0.00
48)	l8	1262-3				0.083			0.083	0.00
49)	l8	1262-4				0.154			0.154	0.00
50)	l8	1262-5				0.053			0.053	0.00

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:05 pm
Operator : pest2:rmp/kb
Sample : il44268,42,, 11343
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:01:22 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:16:34 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	1.182	1.252	216.5E6	274.3E6	25.000M4	25.000M2
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:05 pm
Operator : pest2:rmp/kb
Sample : il44268,42,, 11343
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:01:22 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:16:34 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.601	1.821	45082006	62322188	250.237	257.438M2
25) l6	1242-2	1.740	1.991	90257842	135.4E6	248.299M3	250.119M2
26) l6	1242-3	1.928	2.193	203.1E6	264.7E6	252.761	251.841M2
27) l6	1242-4	1.983	2.252	86788641	111.8E6	250.953	257.928M2
28) l6	1242-5	2.333	2.638	66409352	83953328	252.045	248.628M2
Sum	1242-1			491.6E6	658.2E6	1254.295	1265.953
Average	1242-1					250.859	253.191
29) l9	1268-1	3.459	3.894	474.2E6	501.7E6	250.087	252.680M2
30) l9	1268-2	3.480	3.920	447.1E6	457.0E6	249.246	238.785M2
31) l9	1268-3	3.582	4.061	360.8E6	336.1E6	247.359	241.248M2
32) l9	1268-4	3.769	4.215	161.0E6	162.2E6	254.377M4	239.034M2
33) l9	1268-5	3.923	4.401	1063.6E6	1110.4E6	248.212M4	247.302M2
Sum	1268-1			2506.7E6	2567.3E6	NoCal	NoCal D
Average	1268-1					249.856	243.810
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:05 pm
Operator : pest2:rmp/kb
Sample : il44268,42,, 11343
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:01:22 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:16:34 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

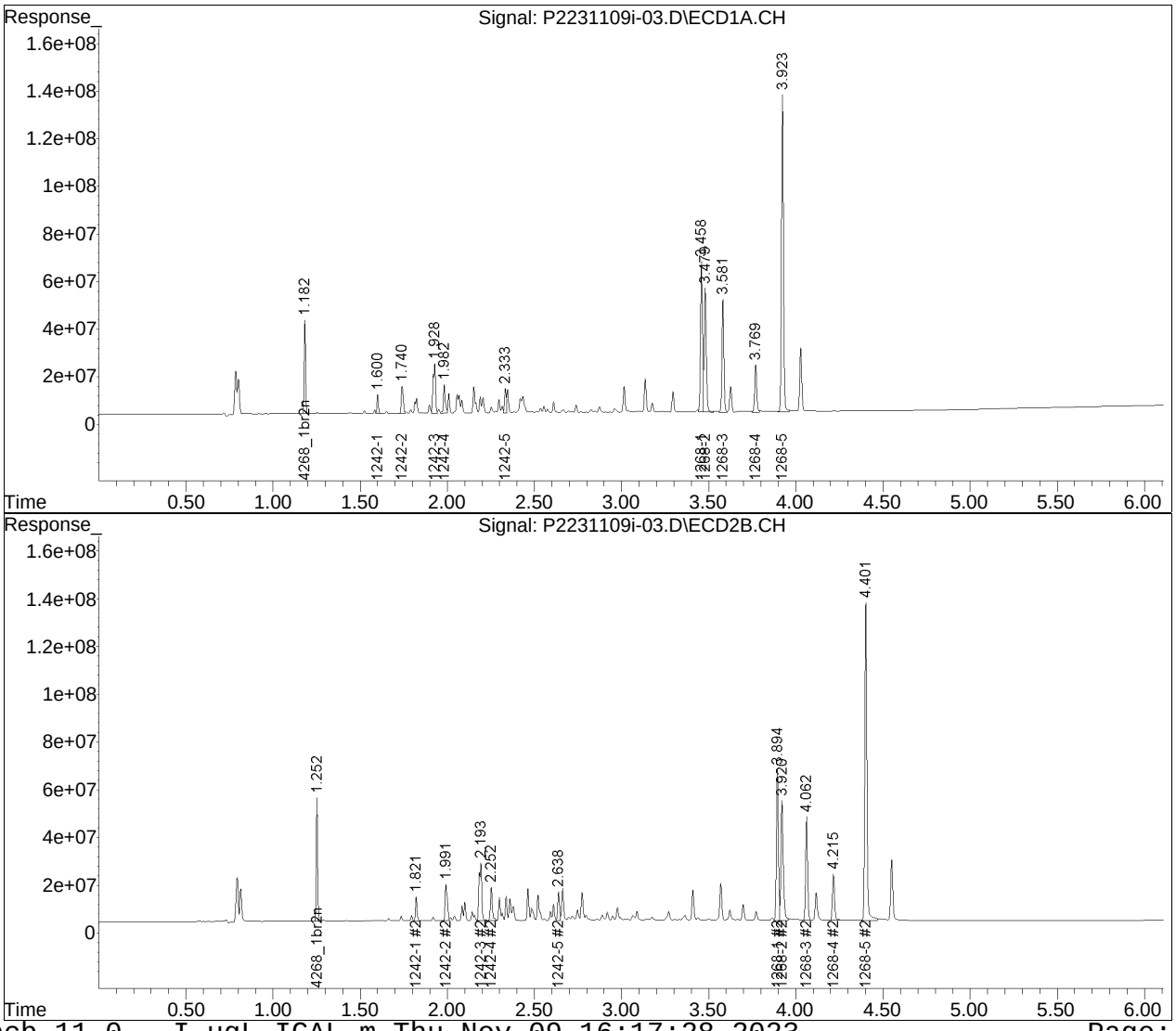
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:05 pm
Operator : pest2:rmp/kb
Sample : il44268,42,, 11343
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:01:22 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:16:34 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

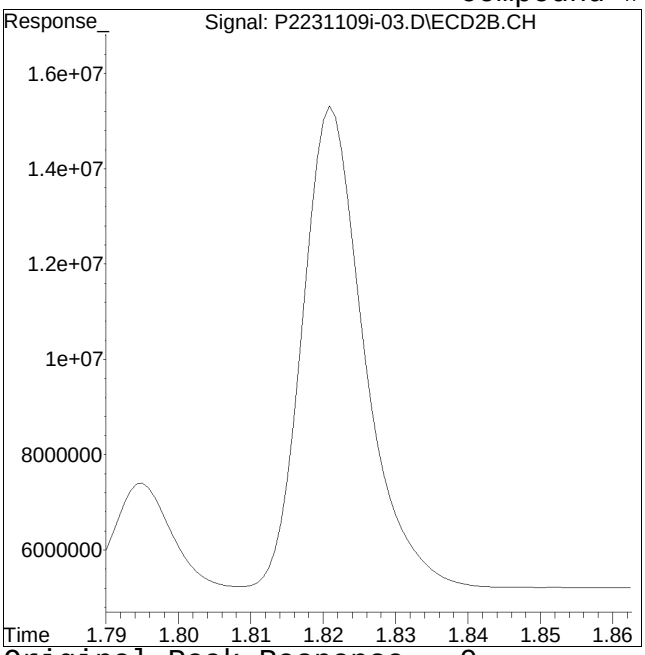
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

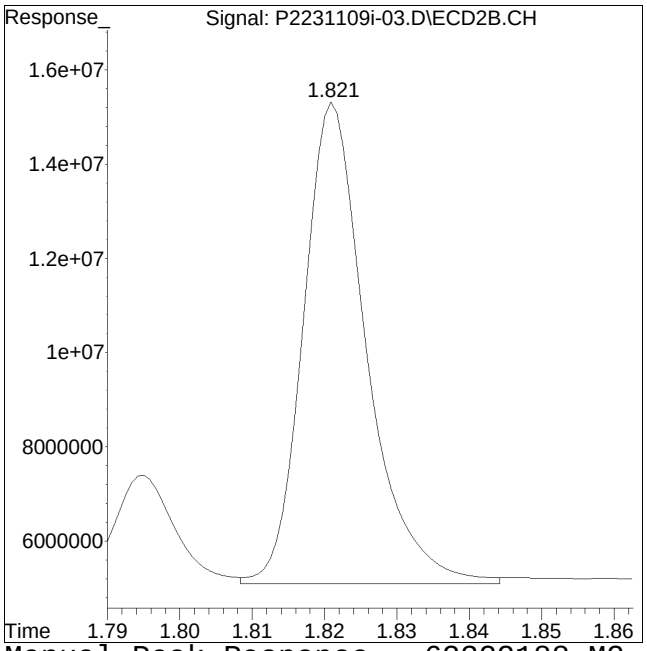


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-03.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:05 pm Instrument : Pest 2
Sample : il44268,42,, 11343 Quant Date : 11/9/2023 3:16 pm

Compound #75: 1242-1 #2



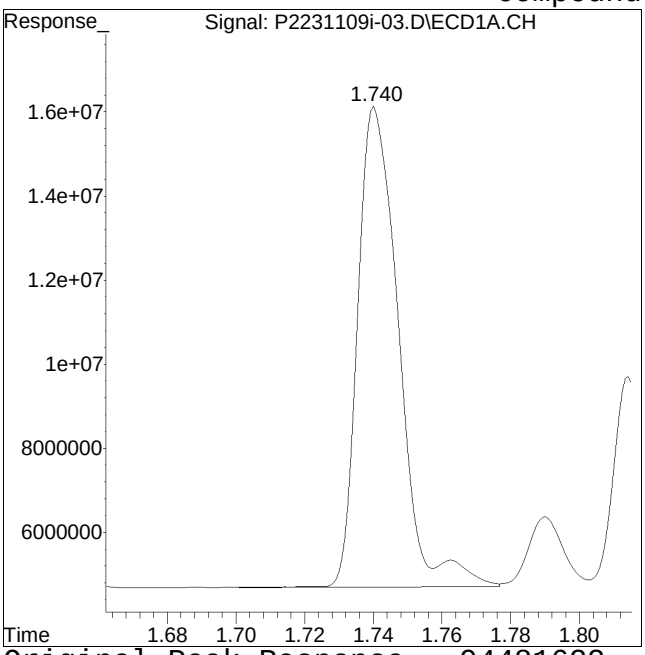


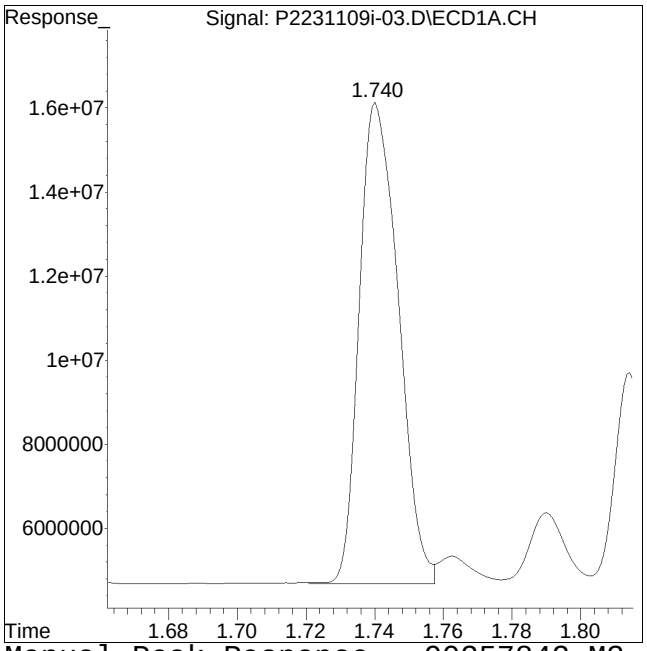
Original Peak Response = 0 Manual Peak Response = 62322188 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-03.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:05 pm Instrument : Pest 2
Sample : il44268,42,, 11343 Quant Date : 11/9/2023 3:16 pm

Compound #25: 1242-2



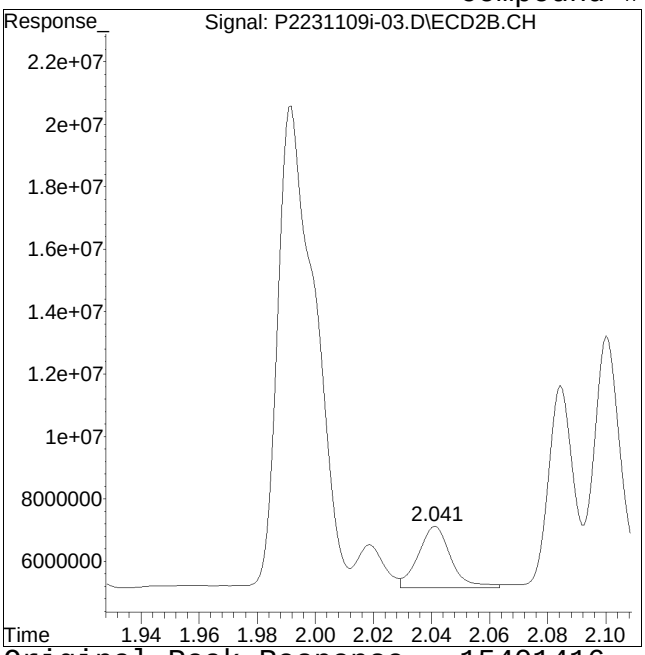


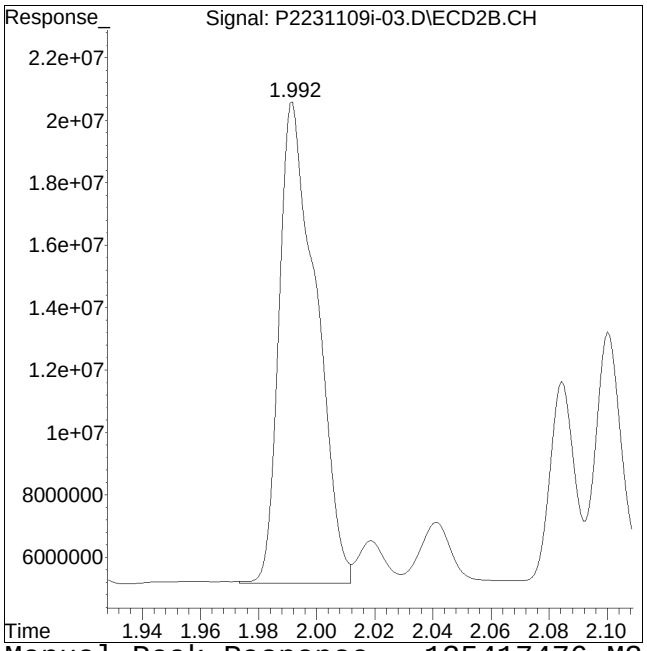
Original Peak Response = 94481622 Manual Peak Response = 90257842 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-03.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:05 pm Instrument : Pest 2
Sample : il44268,42,, 11343 Quant Date : 11/9/2023 3:16 pm

Compound #76: 1242-2 #2



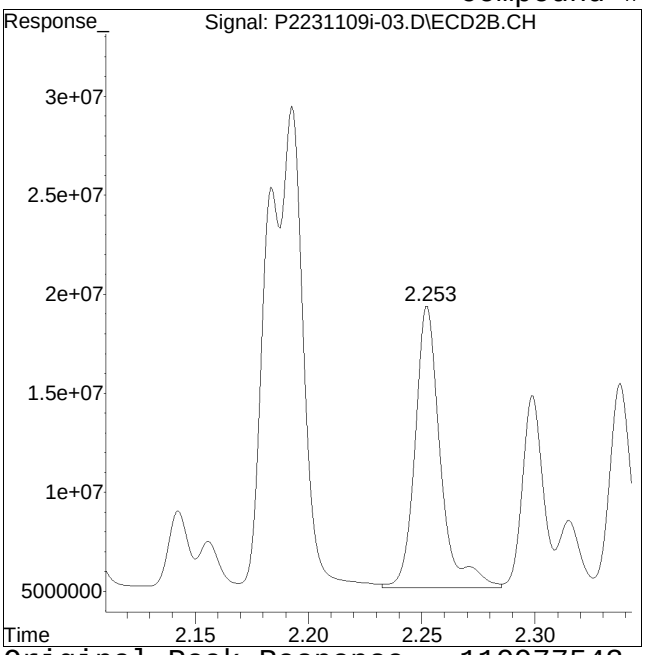


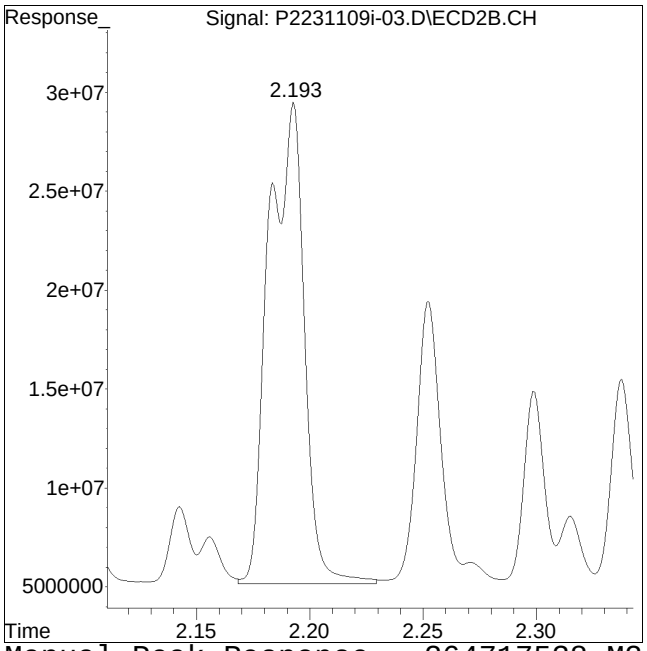
Original Peak Response = 15401416 Manual Peak Response = 135417476 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-03.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:05 pm Instrument : Pest 2
Sample : il44268,42,, 11343 Quant Date : 11/9/2023 3:16 pm

Compound #77: 1242-3 #2



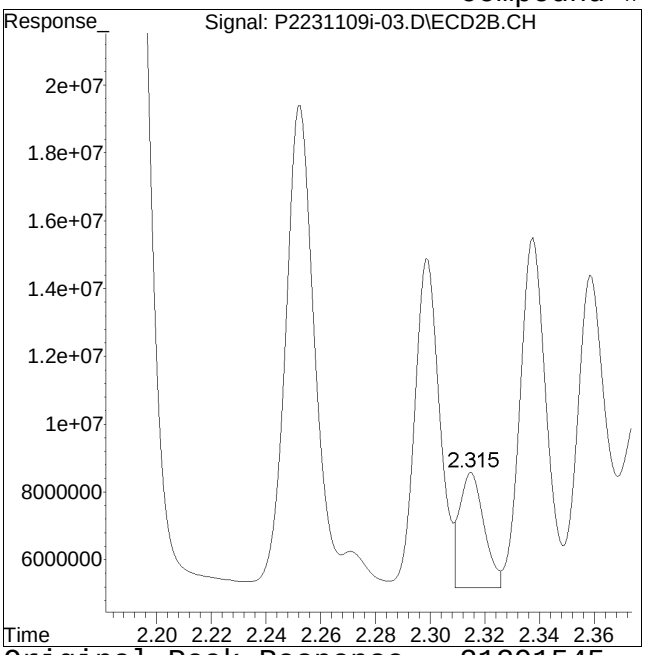


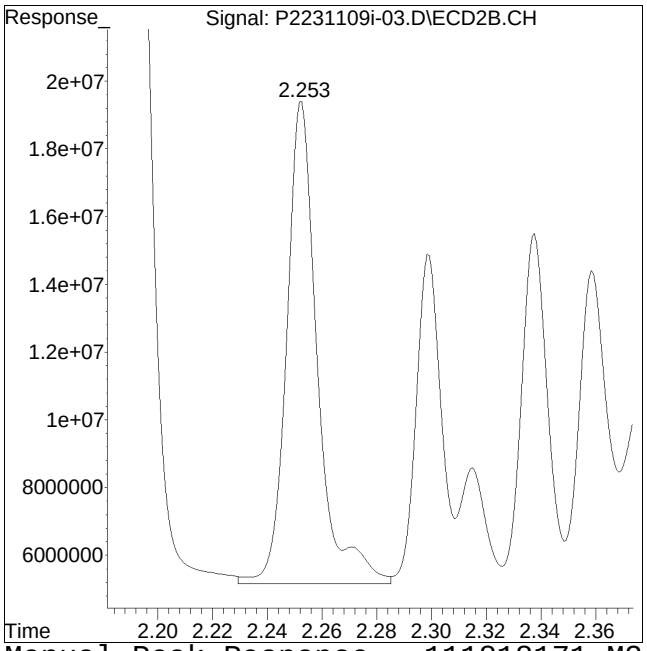
Original Peak Response = 110977543 Manual Peak Response = 264717538 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-03.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:05 pm Instrument : Pest 2
Sample : il44268,42,, 11343 Quant Date : 11/9/2023 3:16 pm

Compound #78: 1242-4 #2



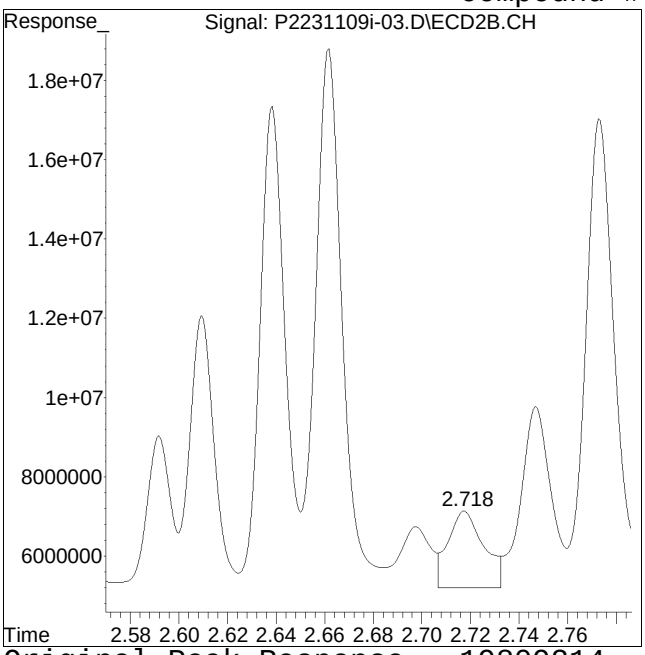


Original Peak Response = 21291545 Manual Peak Response = 111818171 M2
M2 = Peak not found by automatic integration algorithm.

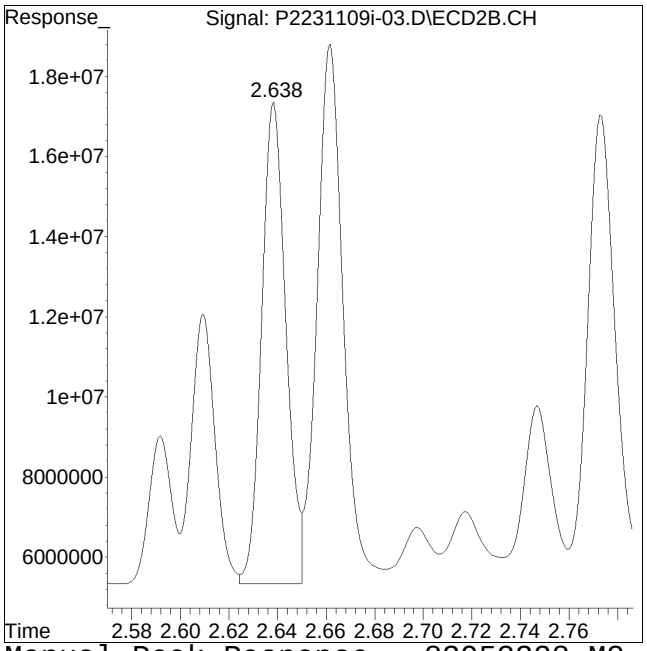
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-03.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:05 pm Instrument : Pest 2
Sample : il44268,42,, 11343 Quant Date : 11/9/2023 3:16 pm

Compound #79: 1242-5 #2



Original Peak Response = 19809214



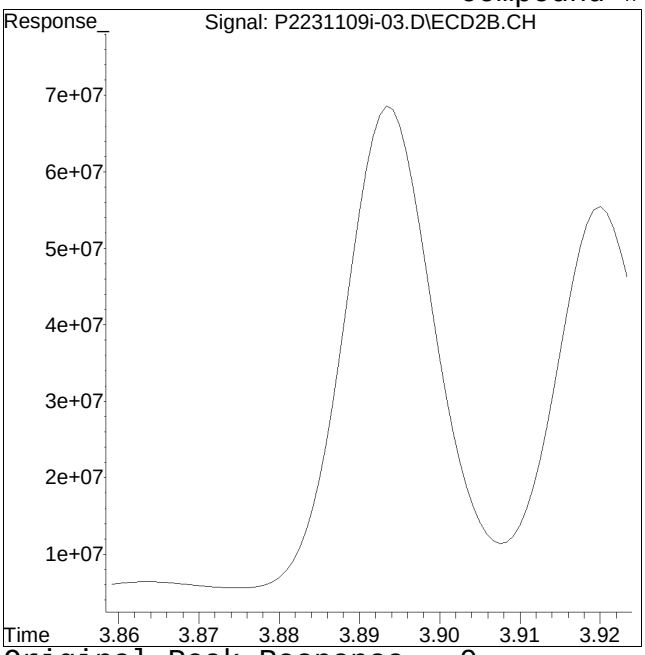
Manual Peak Response = 83953328 M2

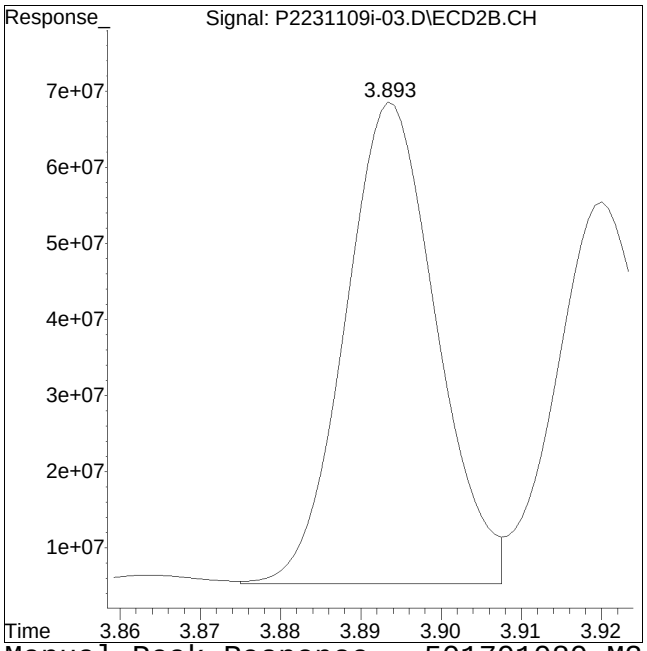
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-03.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:05 pm Instrument : Pest 2
Sample : il44268,42,, 11343 Quant Date : 11/9/2023 3:16 pm

Compound #80: 1268-1 #2



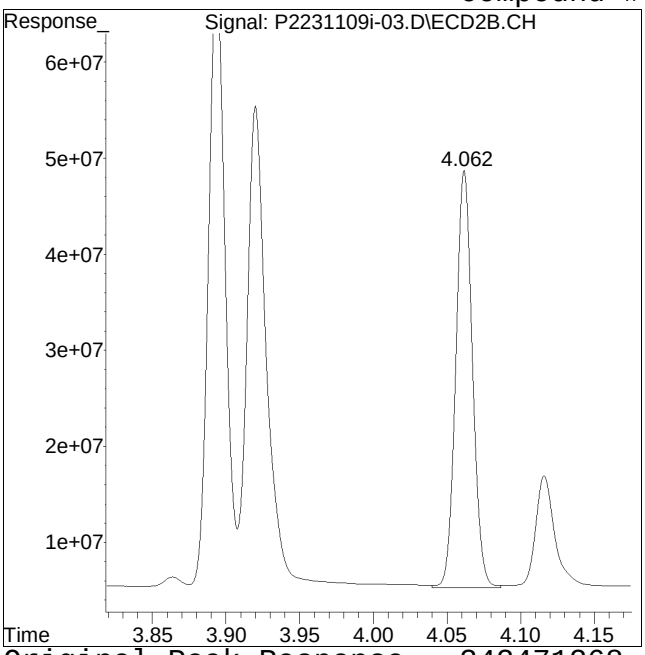


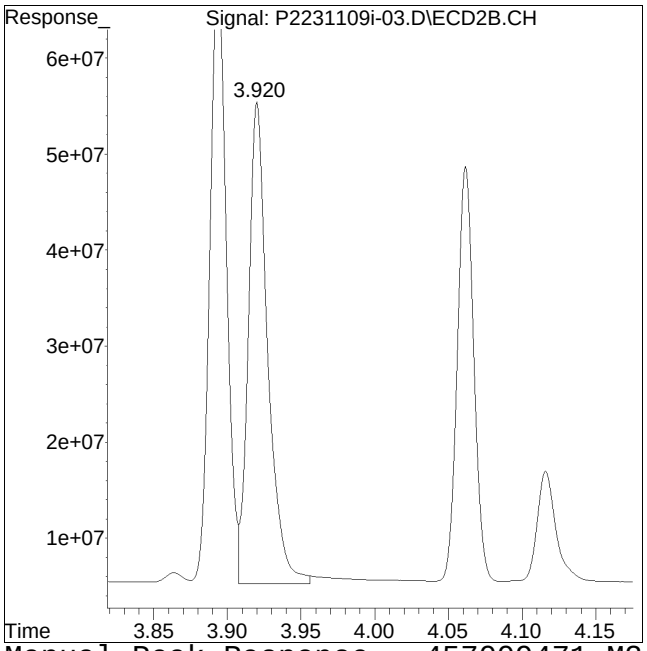
Original Peak Response = 0 Manual Peak Response = 501701080 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-03.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:05 pm Instrument : Pest 2
Sample : il44268,42,, 11343 Quant Date : 11/9/2023 3:16 pm

Compound #81: 1268-2 #2



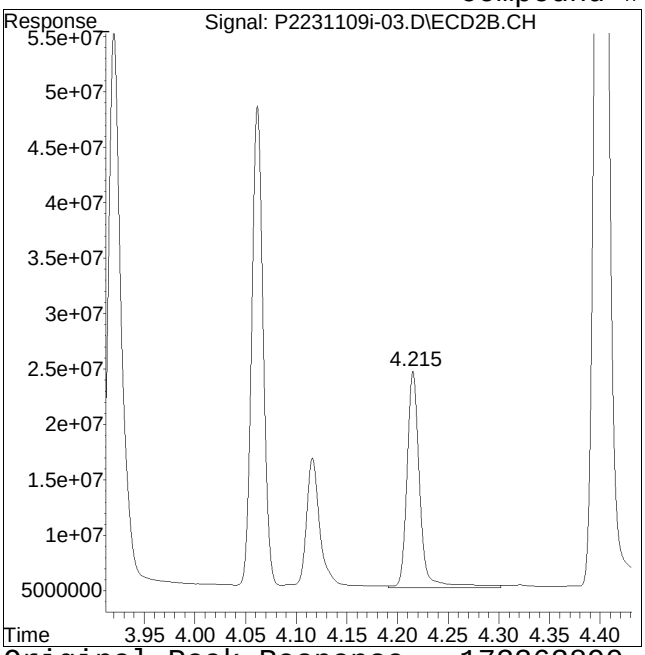


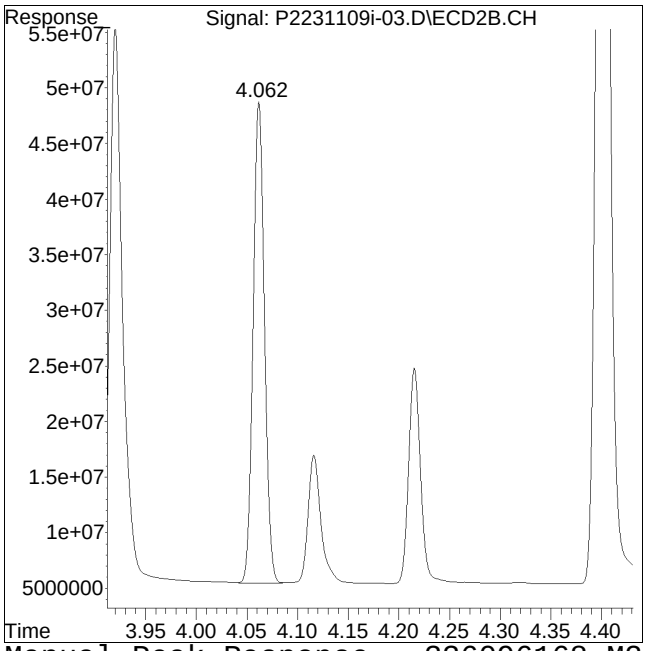
Original Peak Response = 342471268 Manual Peak Response = 457009471 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-03.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:05 pm Instrument : Pest 2
Sample : il44268,42,, 11343 Quant Date : 11/9/2023 3:16 pm

Compound #82: 1268-3 #2



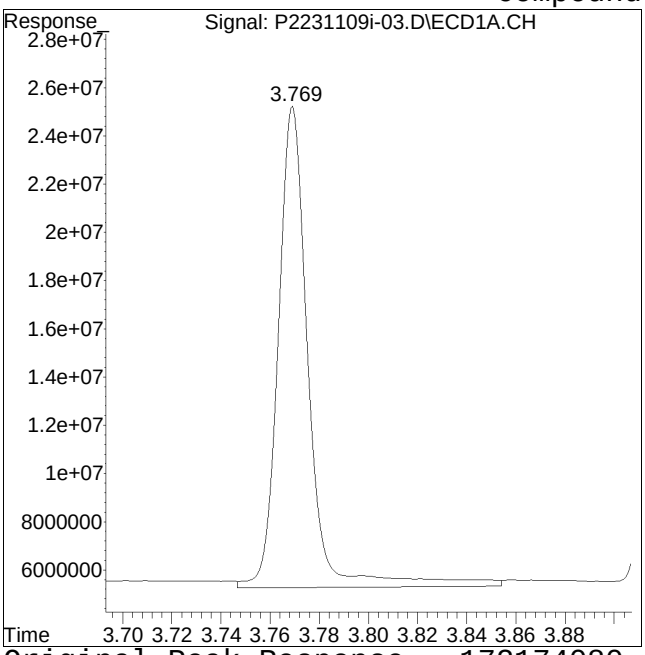


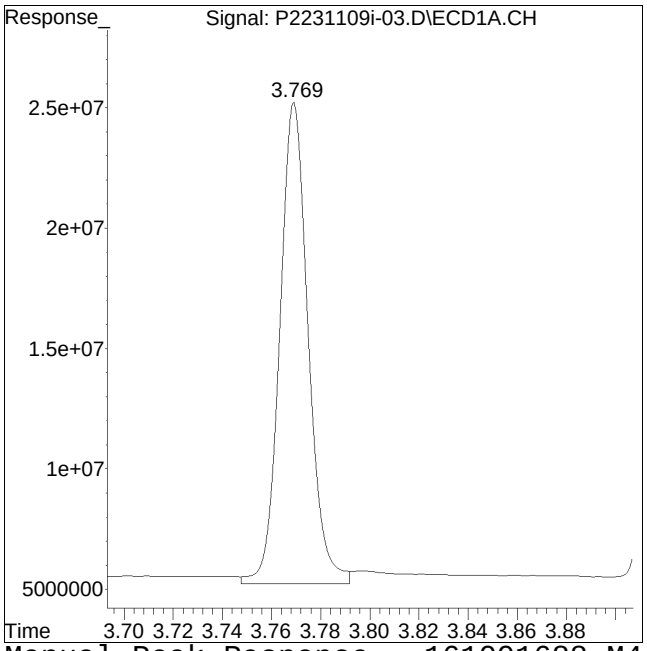
Original Peak Response = 173363890 Manual Peak Response = 336096168 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-03.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:05 pm Instrument : Pest 2
Sample : il44268,42,, 11343 Quant Date : 11/9/2023 3:16 pm

Compound #32: 1268-4



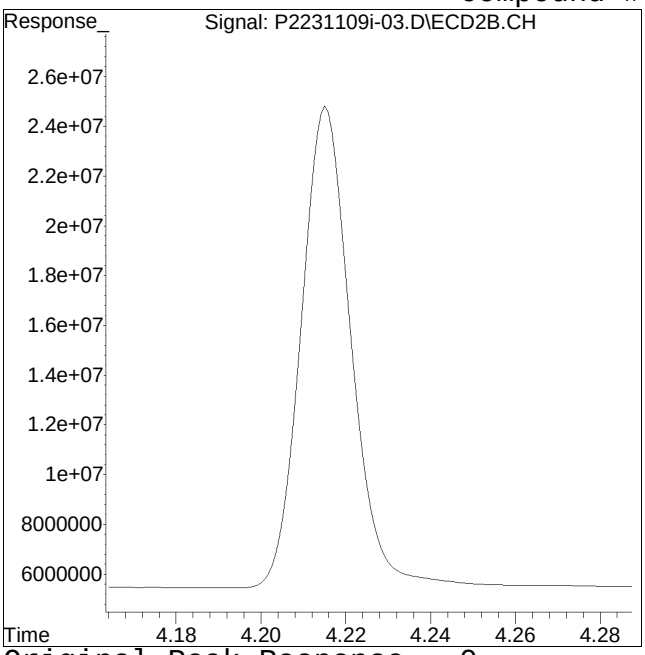


Original Peak Response = 172174080 Manual Peak Response = 161001688 M4
M4 = Poor automated baseline construction.

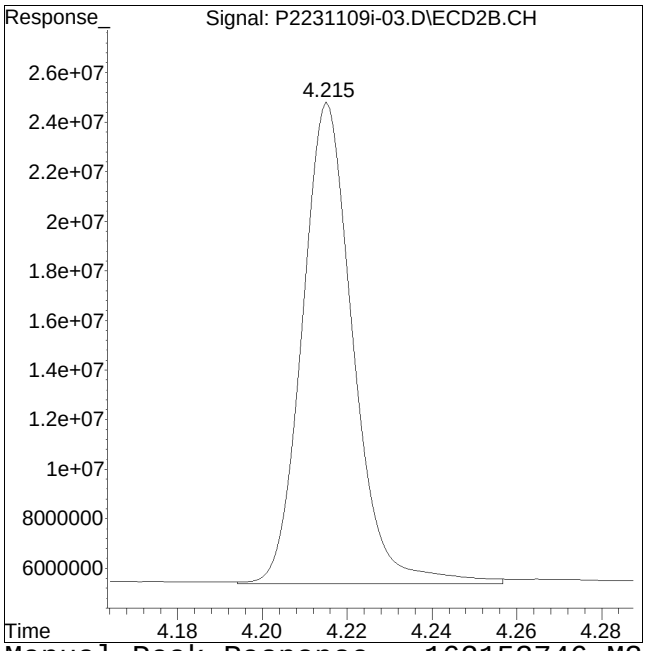
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-03.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:05 pm Instrument : Pest 2
Sample : il44268,42,, 11343 Quant Date : 11/9/2023 3:16 pm

Compound #83: 1268-4 #2



Original Peak Response = 0



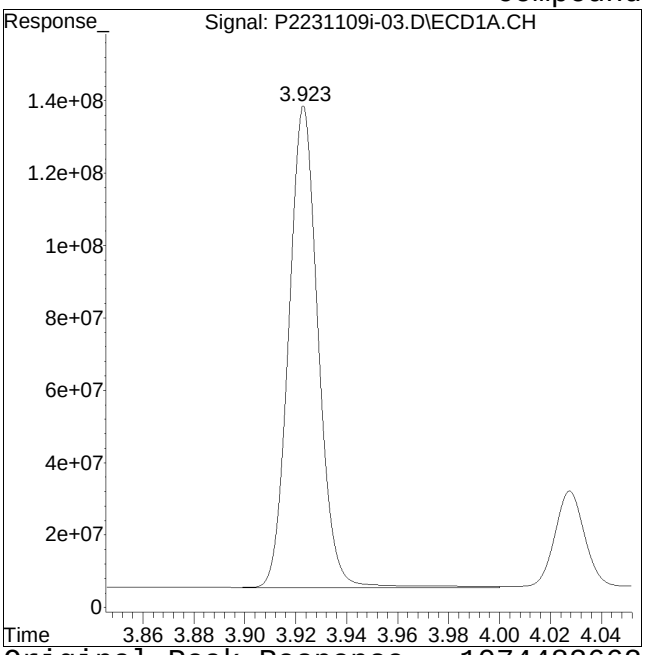
Manual Peak Response = 162153746 M2

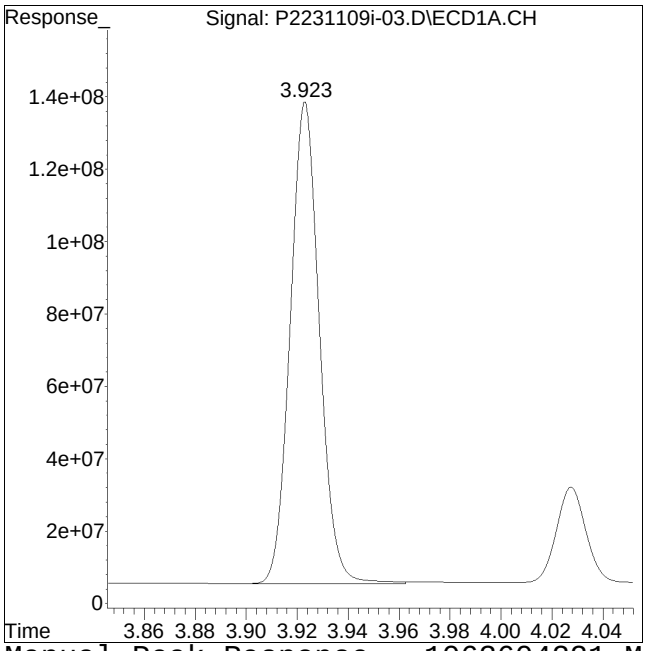
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-03.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:05 pm Instrument : Pest 2
Sample : il44268,42,, 11343 Quant Date : 11/9/2023 3:16 pm

Compound #33: 1268-5



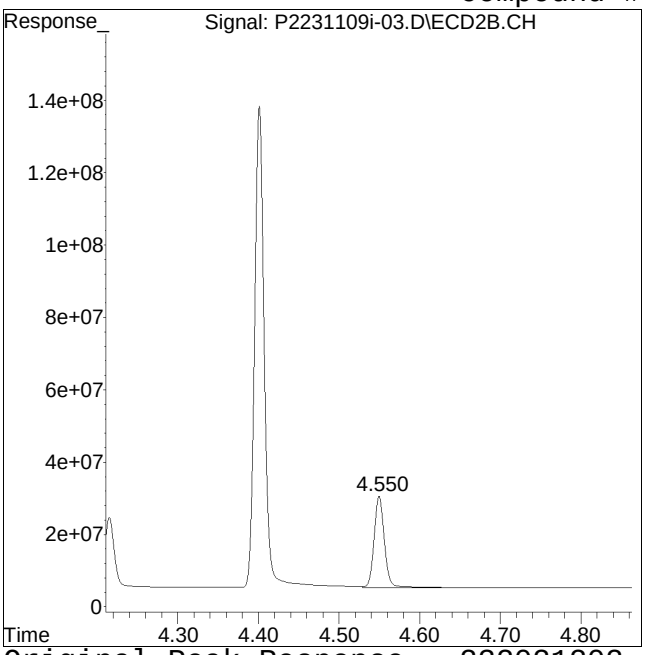


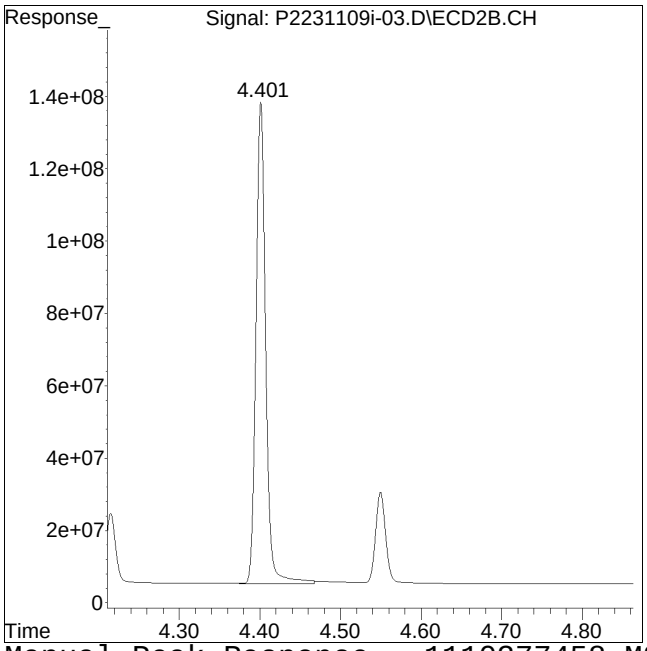
Original Peak Response = 1074483662 Manual Peak Response = 1063604221 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-03.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:05 pm Instrument : Pest 2
Sample : il44268,42,, 11343 Quant Date : 11/9/2023 3:16 pm

Compound #84: 1268-5 #2





Original Peak Response = 232021202 Manual Peak Response = 1110377458 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:14 pm
Operator : pest2:rmp/kb
Sample : il43262,42,, 11347
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:28:31 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:25:39 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	1.183	1.252	235.4E6	278.6E6	25.000	25.000M2
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:14 pm
Operator : pest2:rmp/kb
Sample : il43262,42,, 11347
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:28:31 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:25:39 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:14 pm
Operator : pest2:rmp/kb
Sample : il43262,42,, 11347
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:28:31 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:25:39 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.601	1.821	65232800	86059580	250.000	250.731M2
42) l5	1232-2	1.741	1.991	57314605	85810462	250.000	249.069M2
43) l5	1232-3	1.928	2.193	121.9E6	159.6E6	250.000	252.817M2
44) l5	1232-4	1.983	2.253	51476783	66519322	250.000	246.052M2
45) l5	1232-5	2.333	2.638	35660041	45983565	250.000	238.572M2
Sum	1232-1			331.5E6	444.0E6	1250.000	1237.242
Average	1232-1					250.000	247.448
46) l8	1262-1	2.823	3.175	173.7E6	184.4E6	250.000	256.198M2
47) l8	1262-2	3.014	3.408	222.0E6	241.6E6	250.000	233.339M2
48) l8	1262-3	3.138	3.567	200.7E6	229.9E6	250.000	244.299M2
49) l8	1262-4	3.294	3.697	408.5E6	429.7E6	250.386	246.318M2
50) l8	1262-5	3.768	4.215	136.5E6	149.0E6	247.547M4	245.332M2
Sum	1262-1			1141.4E6	1234.6E6	1247.933	1225.486
Average	1262-1					249.587	245.097

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1141.4E6	1234.6E6	1247.933	1225.486
Average	1262-1					249.587	245.097

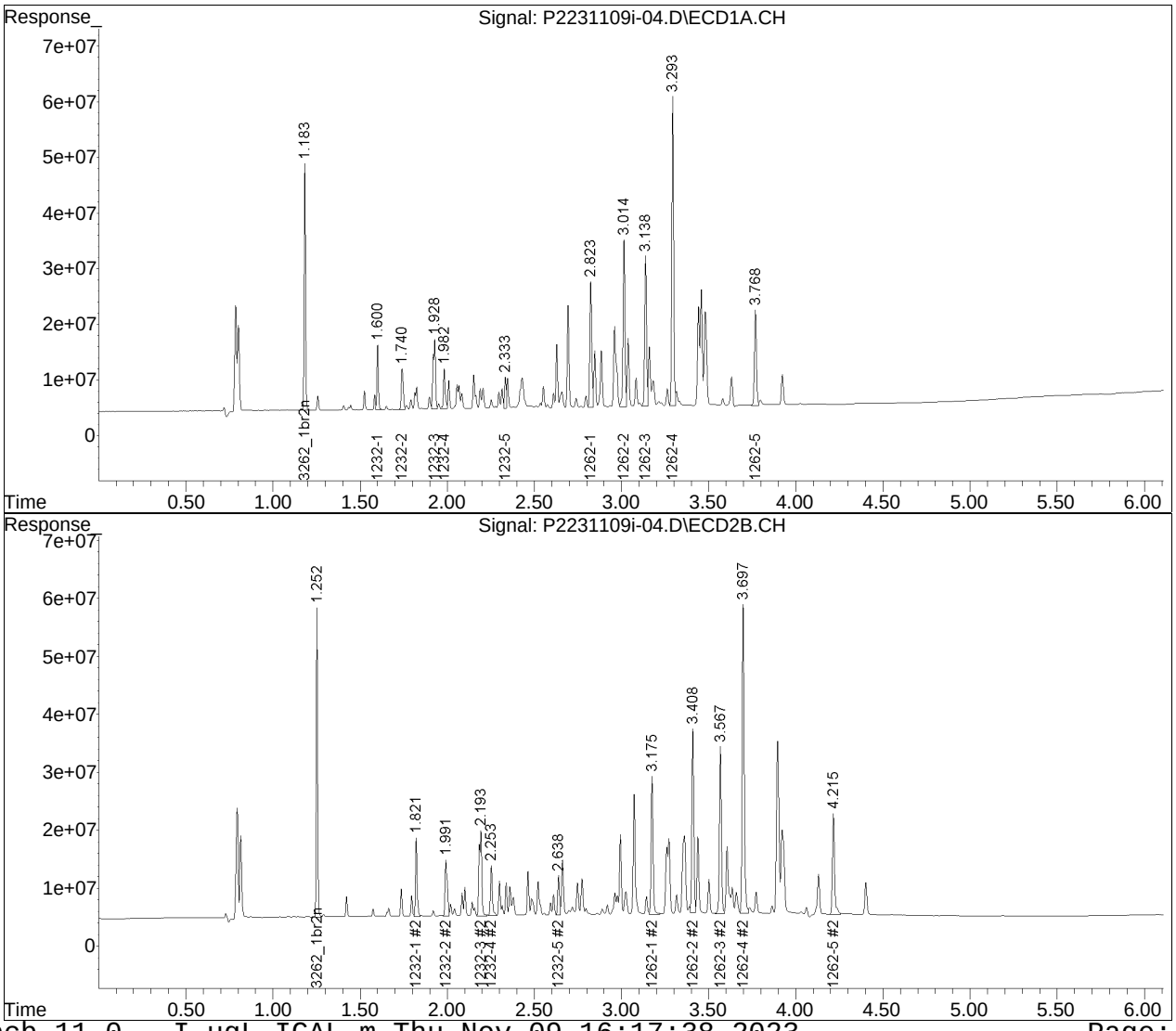
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:14 pm
Operator : pest2:rmp/kb
Sample : il43262,42,, 11347
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:28:31 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:25:39 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

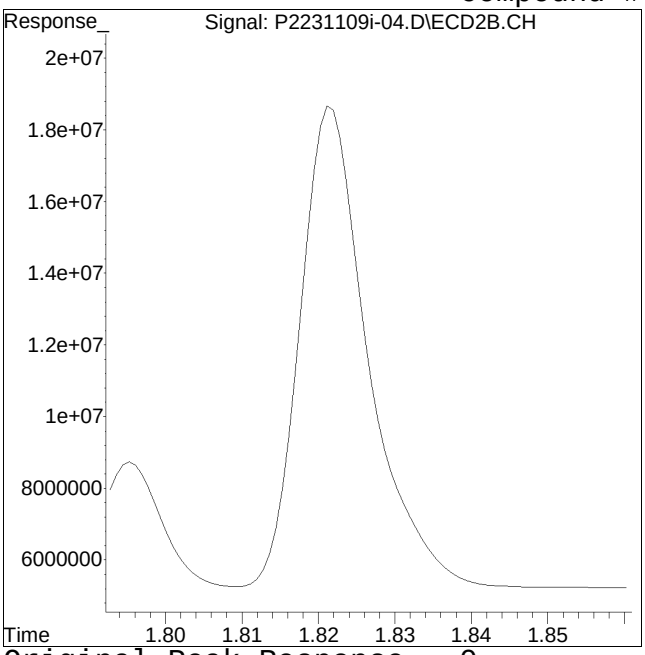
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

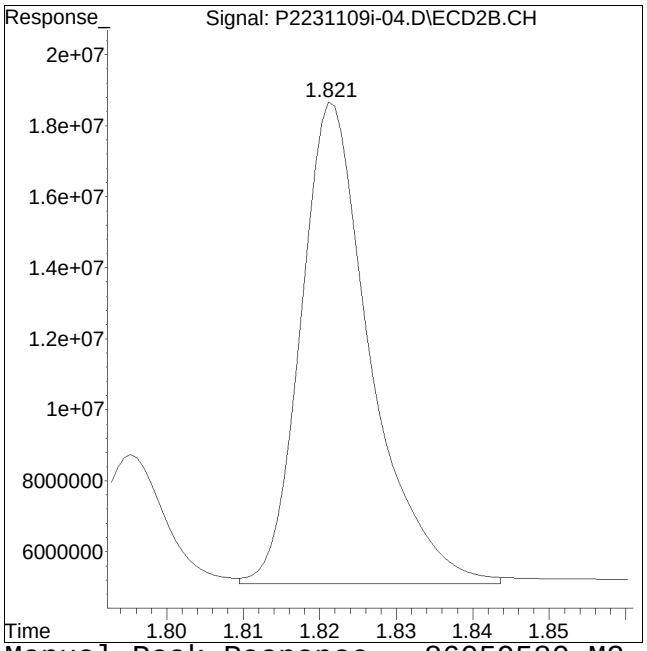


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-04.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:14 pm Instrument : Pest 2
Sample : il43262,42,, 11347 Quant Date : 11/9/2023 3:25 pm

Compound #92: 1232-1 #2



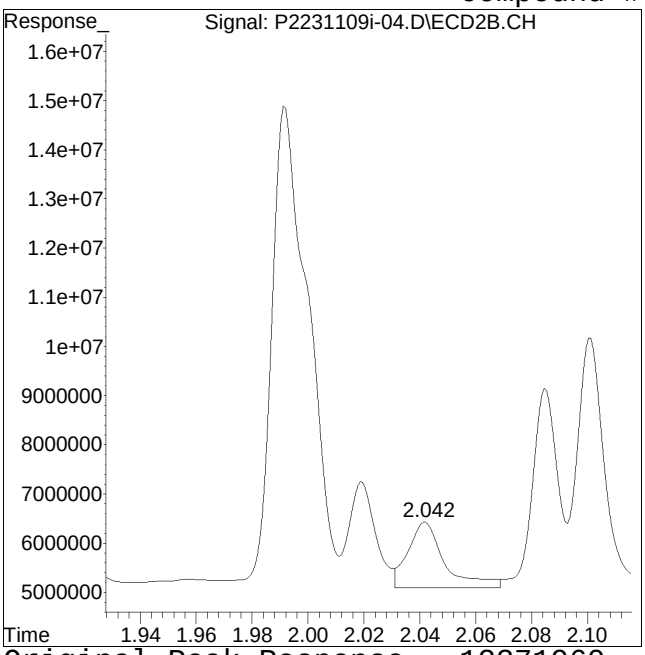


Original Peak Response = 0 Manual Peak Response = 86059580 M2
M2 = Peak not found by automatic integration algorithm.

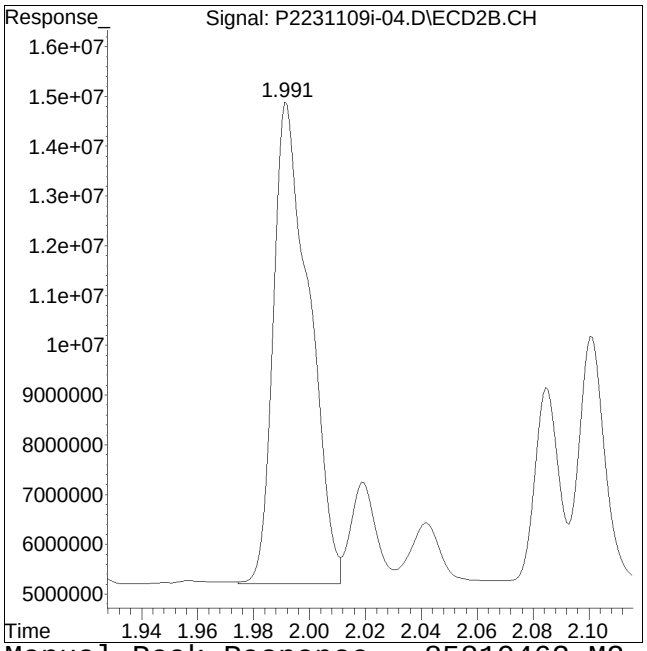
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-04.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:14 pm Instrument : Pest 2
Sample : il43262,42,, 11347 Quant Date : 11/9/2023 3:25 pm

Compound #93: 1232-2 #2



Original Peak Response = 12371960



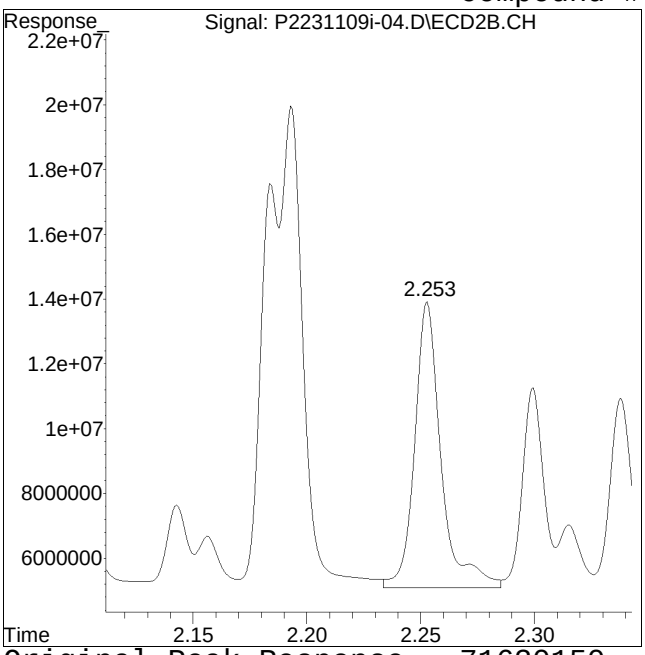
Manual Peak Response = 85810462 M2

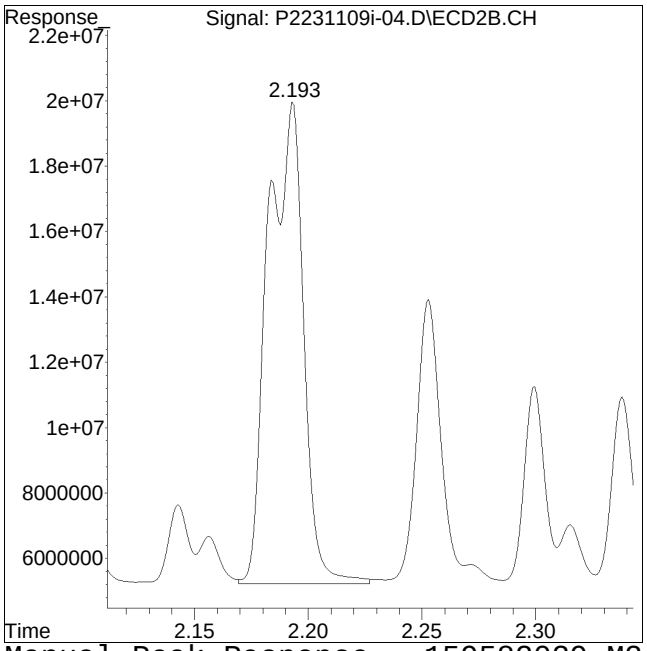
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-04.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:14 pm Instrument : Pest 2
Sample : il43262,42,, 11347 Quant Date : 11/9/2023 3:25 pm

Compound #94: 1232-3 #2



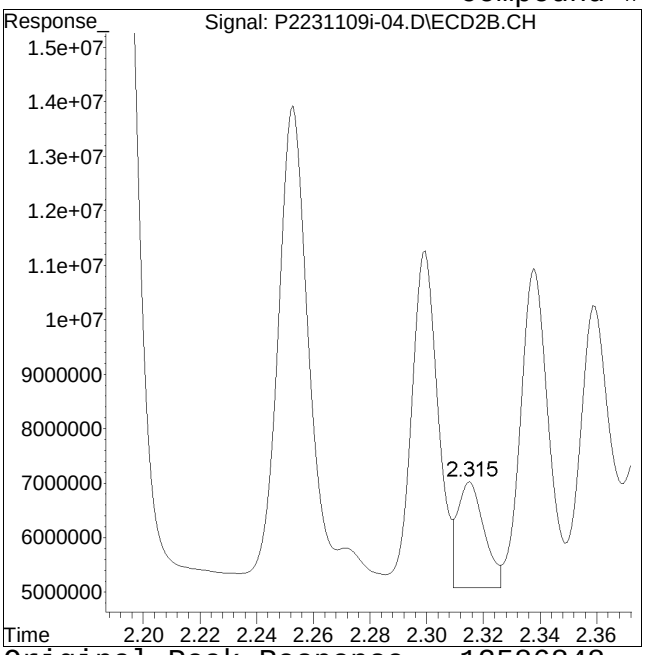


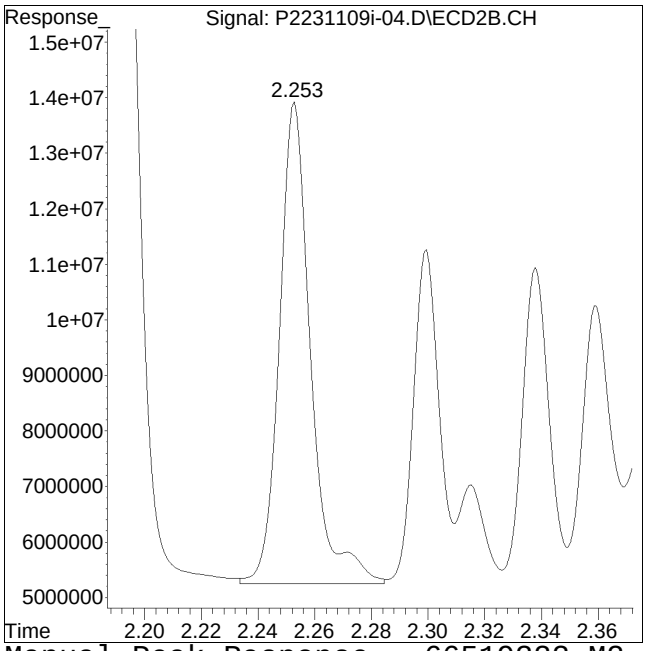
Original Peak Response = 71630150 Manual Peak Response = 159582029 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-04.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:14 pm Instrument : Pest 2
Sample : il43262,42,, 11347 Quant Date : 11/9/2023 3:25 pm

Compound #95: 1232-4 #2



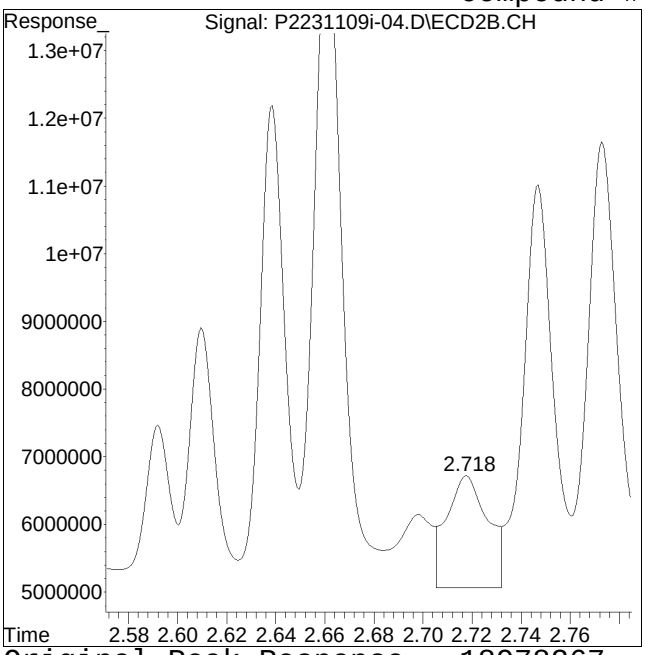


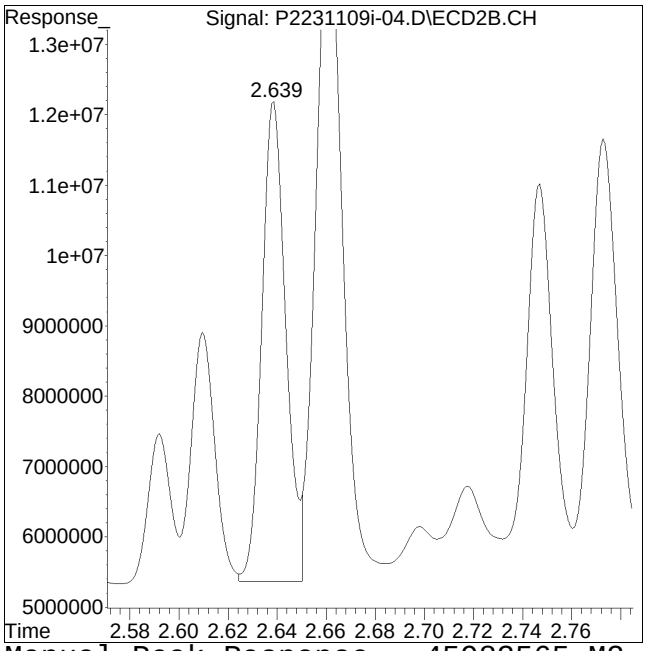
Original Peak Response = 12586848 Manual Peak Response = 66519322 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-04.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:14 pm Instrument : Pest 2
Sample : il43262,42,, 11347 Quant Date : 11/9/2023 3:25 pm

Compound #96: 1232-5 #2



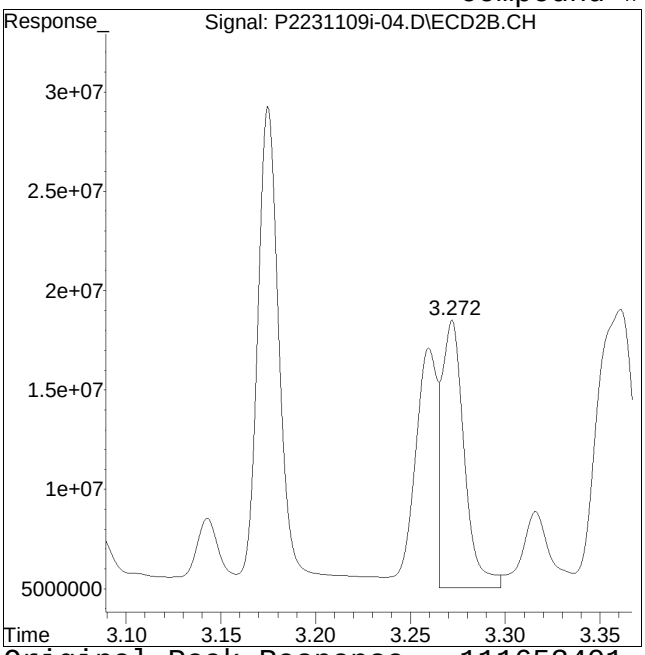


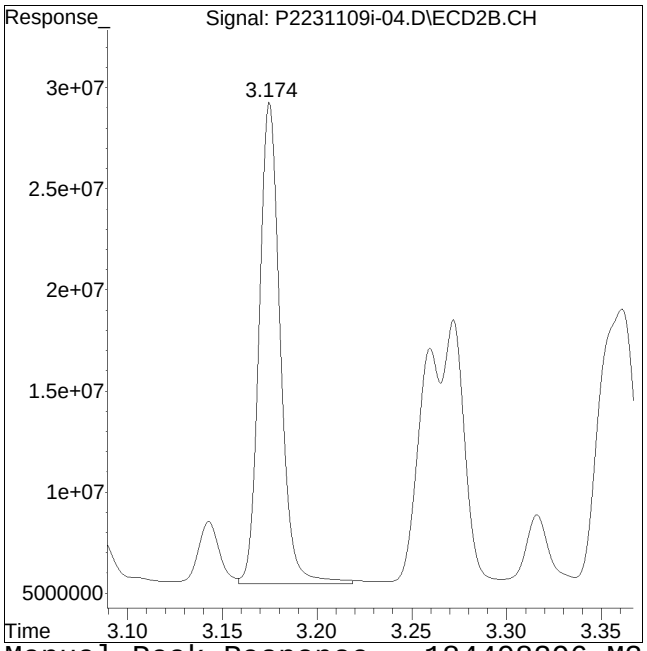
Original Peak Response = 18978267 Manual Peak Response = 45983565 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-04.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:14 pm Instrument : Pest 2
Sample : il43262,42,, 11347 Quant Date : 11/9/2023 3:25 pm

Compound #97: 1262-1 #2



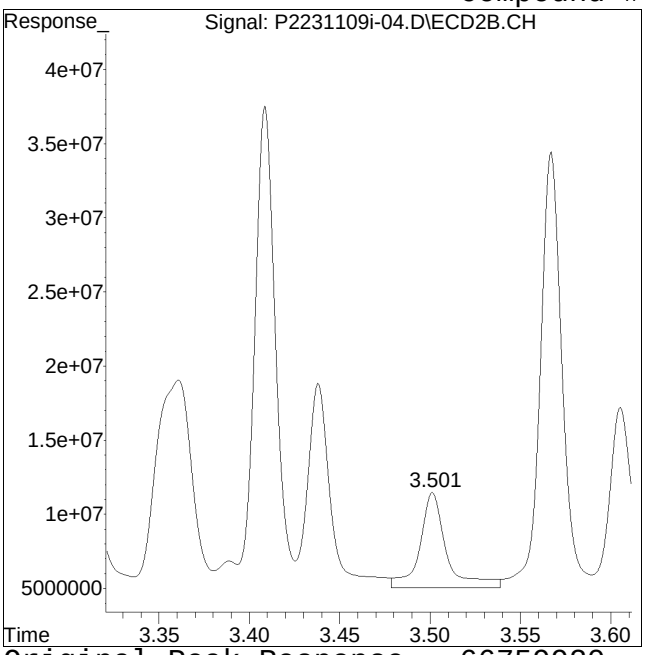


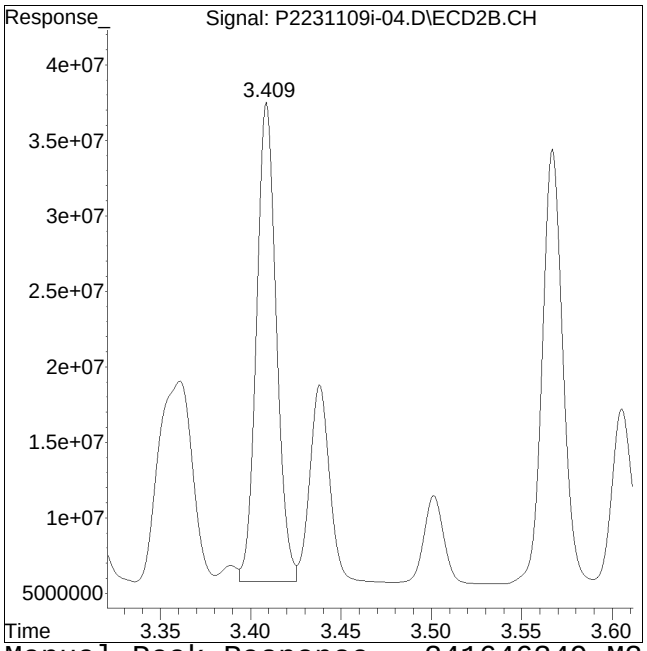
Original Peak Response = 111653401 Manual Peak Response = 184408296 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-04.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:14 pm Instrument : Pest 2
Sample : il43262,42,, 11347 Quant Date : 11/9/2023 3:25 pm

Compound #98: 1262-2 #2



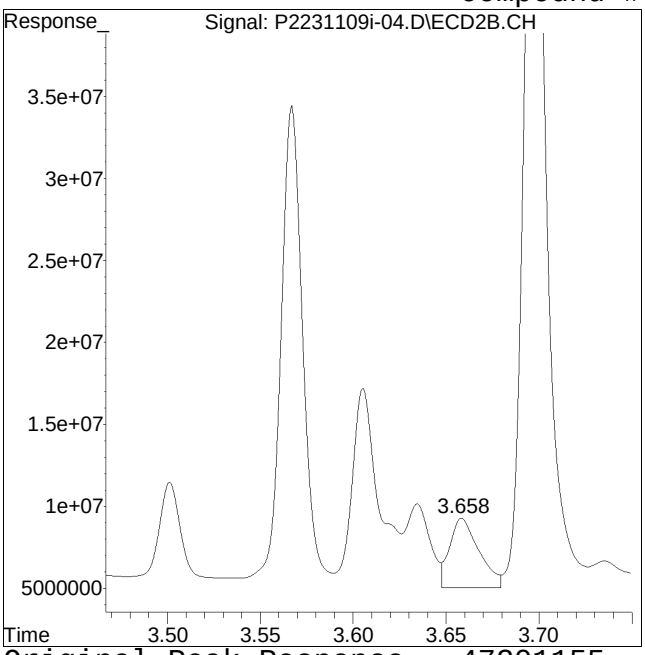


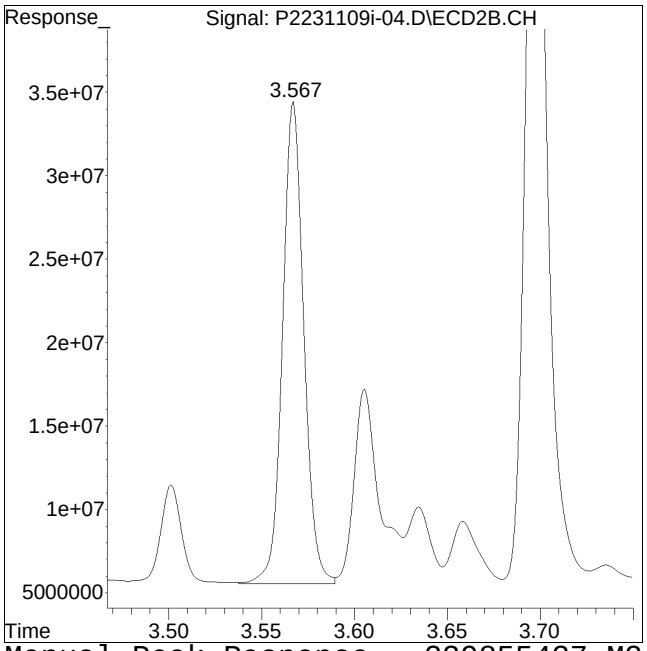
Original Peak Response = 66759920 Manual Peak Response = 241646349 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-04.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:14 pm Instrument : Pest 2
Sample : il43262,42,, 11347 Quant Date : 11/9/2023 3:25 pm

Compound #99: 1262-3 #2



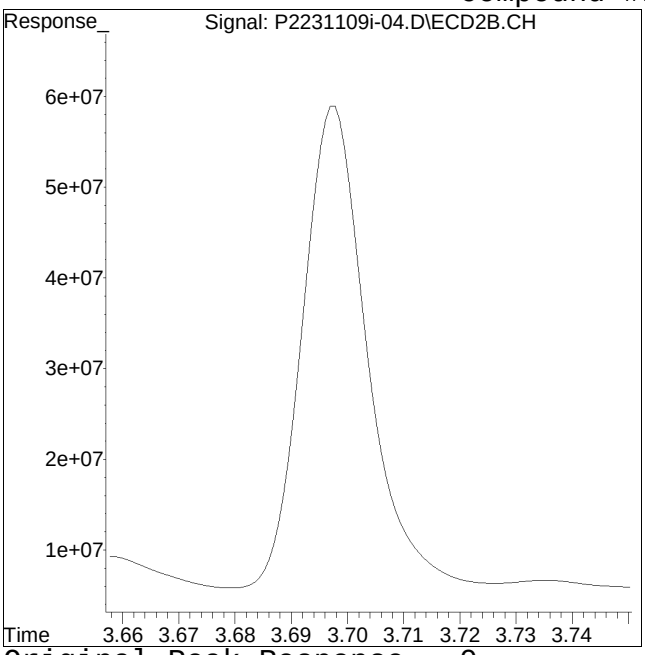


Original Peak Response = 47201155 Manual Peak Response = 229855437 M2
M2 = Peak not found by automatic integration algorithm.

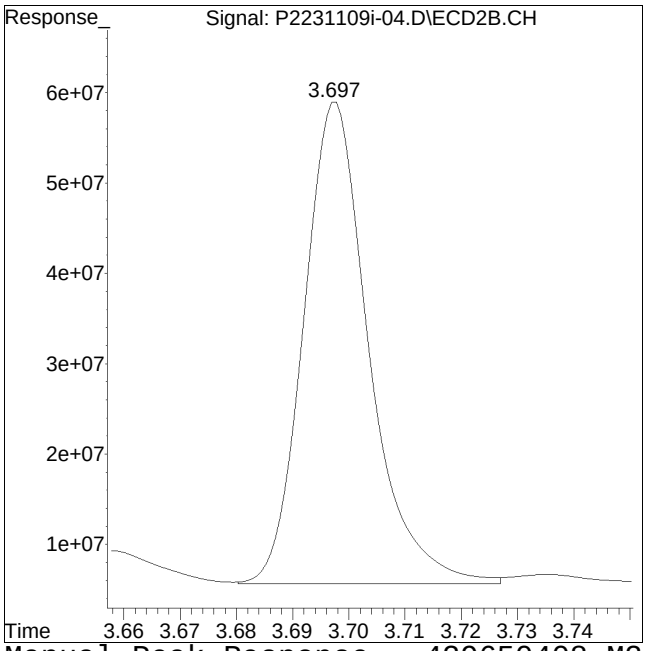
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-04.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:14 pm Instrument : Pest 2
Sample : il43262,42,, 11347 Quant Date : 11/9/2023 3:25 pm

Compound #100: 1262-4 #2



Original Peak Response = 0



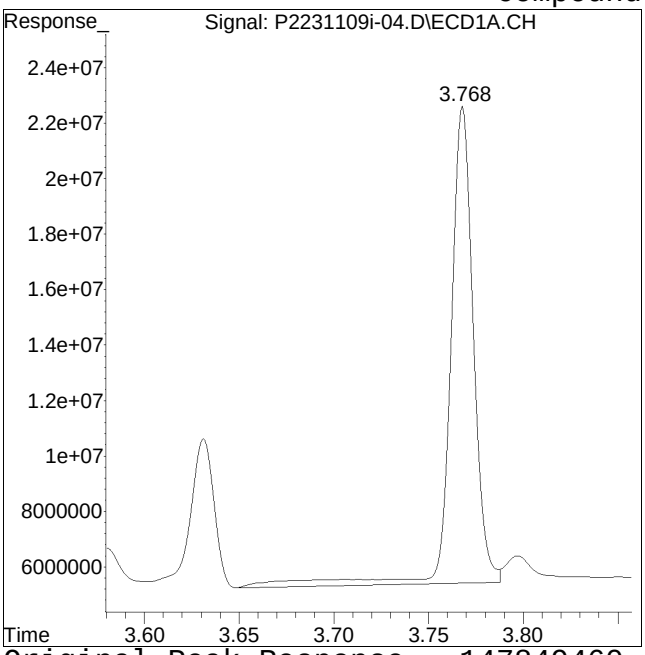
Manual Peak Response = 429650408 M2

M2 = Peak not found by automatic integration algorithm.

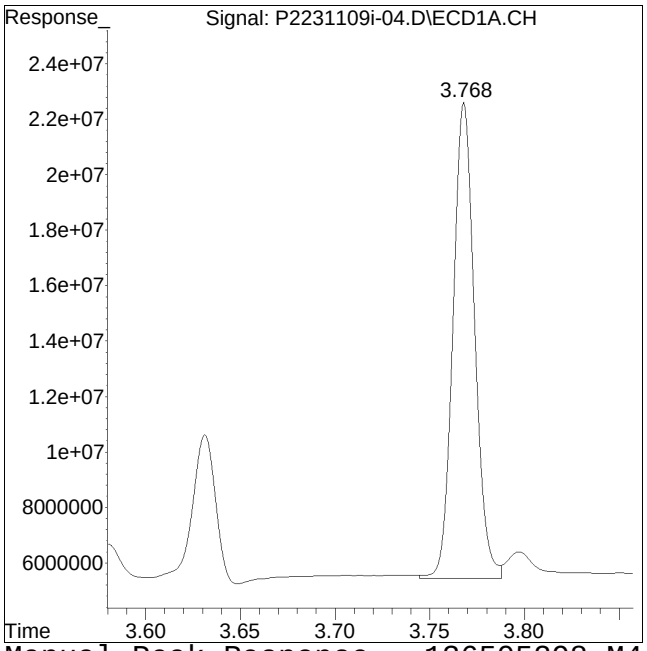
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-04.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:14 pm Instrument : Pest 2
Sample : il43262,42,, 11347 Quant Date : 11/9/2023 3:25 pm

Compound #50: 1262-5



Original Peak Response = 147849460



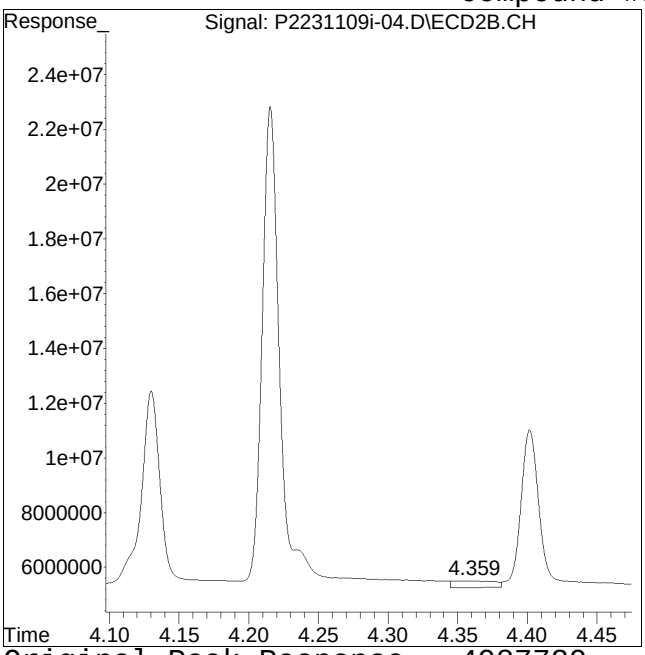
Manual Peak Response = 136505298 M4

M4 = Poor automated baseline construction.

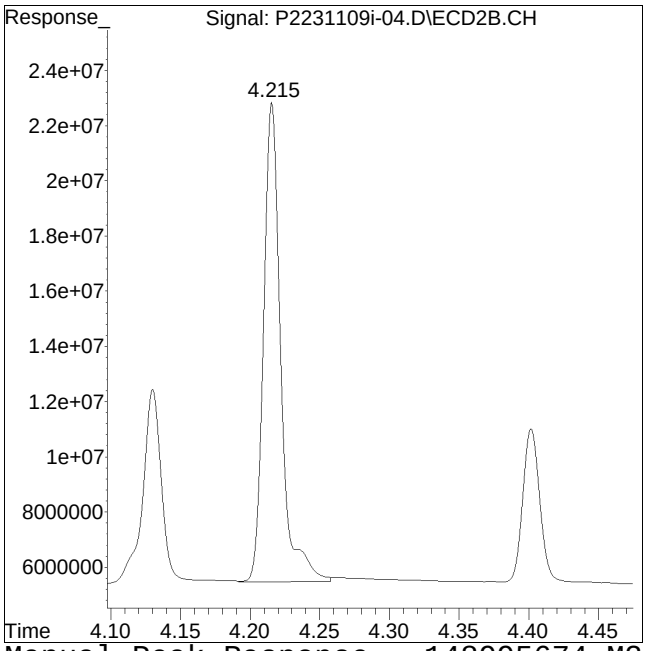
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-04.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:14 pm Instrument : Pest 2
Sample : il43262,42,, 11347 Quant Date : 11/9/2023 3:25 pm

Compound #101: 1262-5 #2



Original Peak Response = 4987729



Manual Peak Response = 148995674 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:23 pm
Operator : pest2:rmp/kb
Sample : il41248,42,, 11345
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:39:10 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:31:13 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	1.184	1.253	232.6E6	276.6E6	25.000	25.000M2
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:23 pm
Operator : pest2:rmp/kb
Sample : il41248,42,, 11345
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:39:10 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:31:13 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.928	2.185	127.2E6	170.9E6	252.410	248.711M2
36) l7	1248-2	2.057	2.338	159.1E6	114.5E6	249.368M1	238.951M2
37) l7	1248-3	2.152	2.464	146.7E6	144.4E6	251.606	246.749M2
38) l7	1248-4	2.334	2.639	130.5E6	155.3E6	243.669	240.928M2
39) l7	1248-5	2.347	2.662	120.1E6	174.7E6	259.957	243.192M2

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:23 pm
Operator : pest2:rmp/kb
Sample : il41248,42,, 11345
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:39:10 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:31:13 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			683.7E6	759.8E6	N.D.	N.D. D
Average	1248-1					251.402	243.706
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

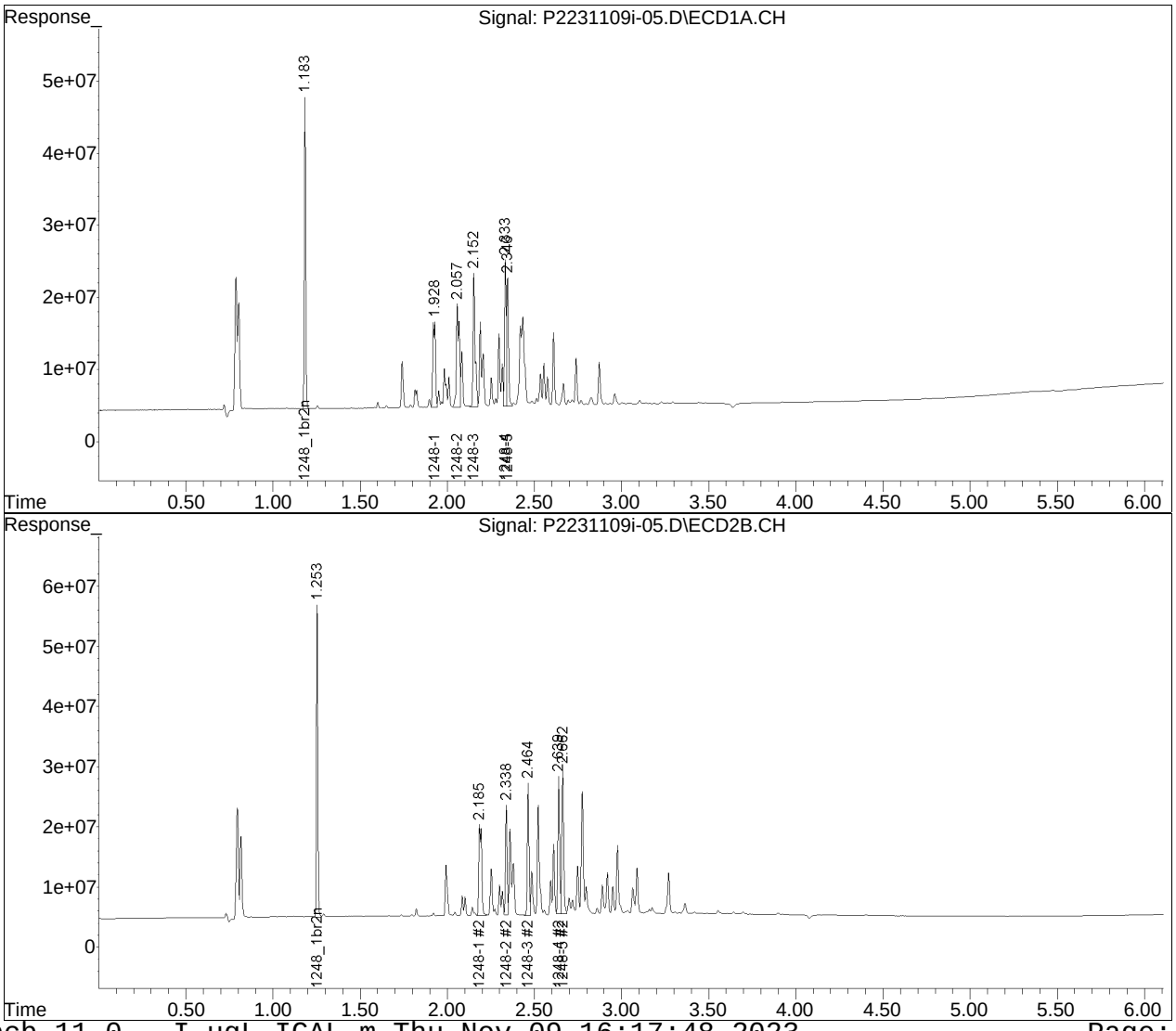
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:23 pm
Operator : pest2:rmp/kb
Sample : il41248,42,, 11345
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:39:10 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:31:13 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

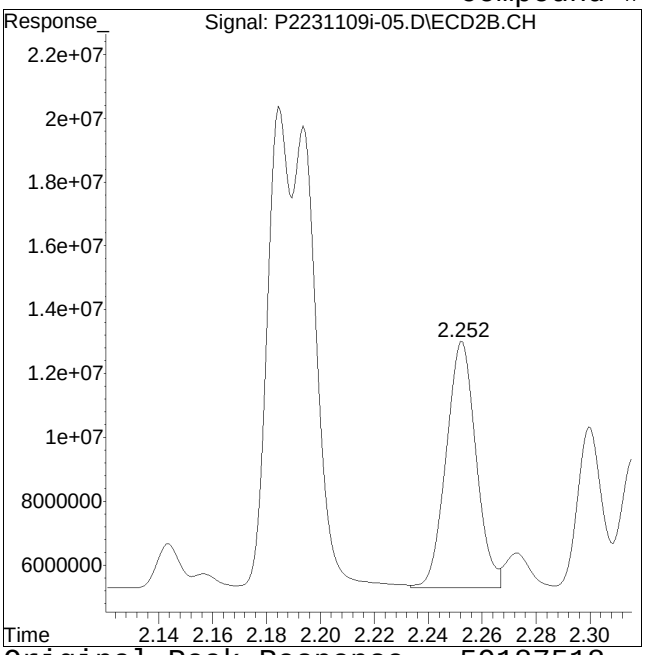
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

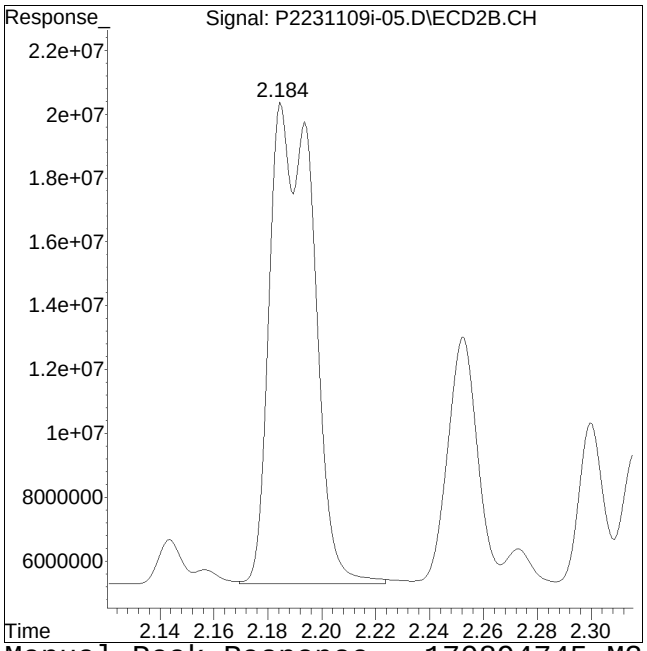


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-05.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:23 pm Instrument : Pest 2
Sample : il41248,42,, 11345 Quant Date : 11/9/2023 3:31 pm

Compound #86: 1248-1 #2



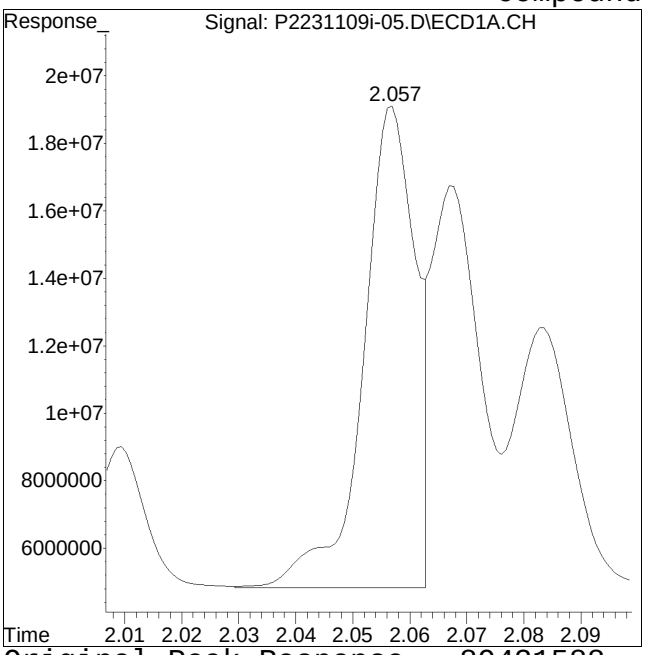


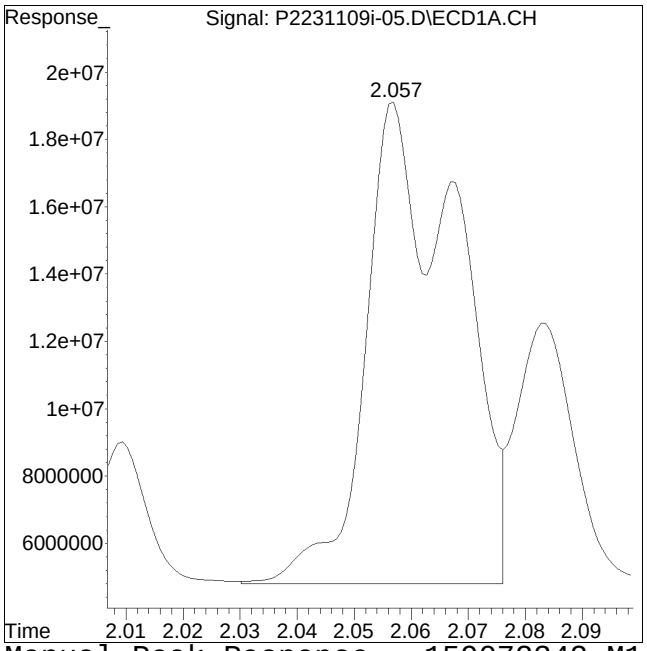
Original Peak Response = 59187518 Manual Peak Response = 170894745 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-05.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:23 pm Instrument : Pest 2
Sample : il41248,42,, 11345 Quant Date : 11/9/2023 3:31 pm

Compound #36: 1248-2



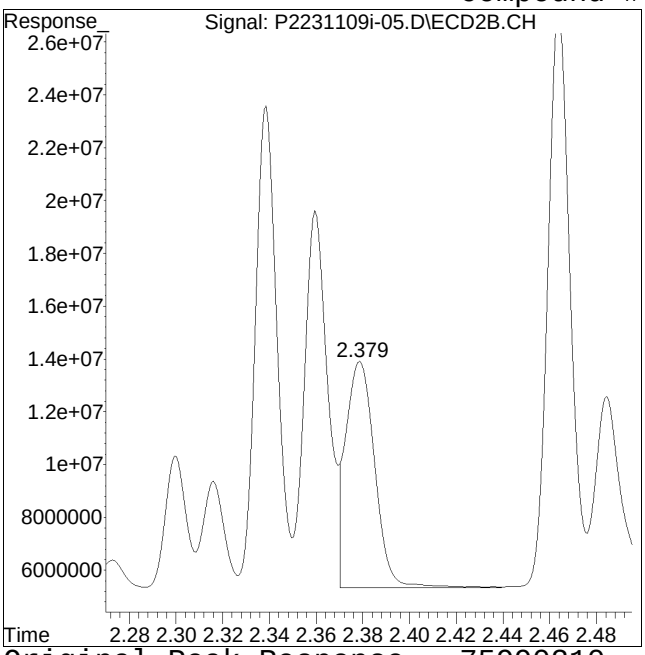


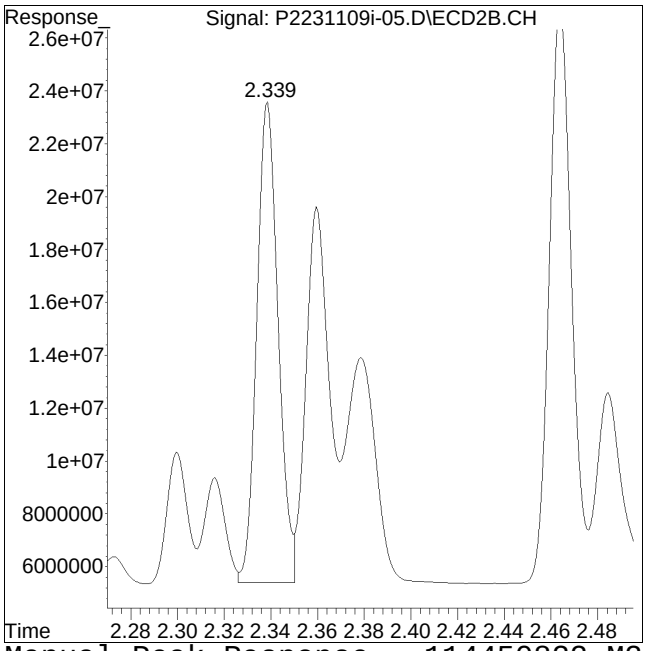
Original Peak Response = 89431588 Manual Peak Response = 159072342 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-05.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:23 pm Instrument : Pest 2
Sample : il41248,42,, 11345 Quant Date : 11/9/2023 3:31 pm

Compound #87: 1248-2 #2



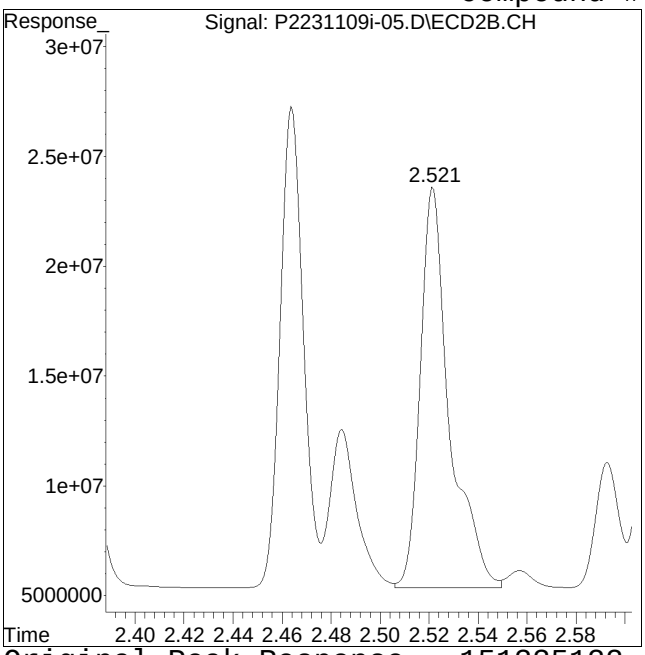


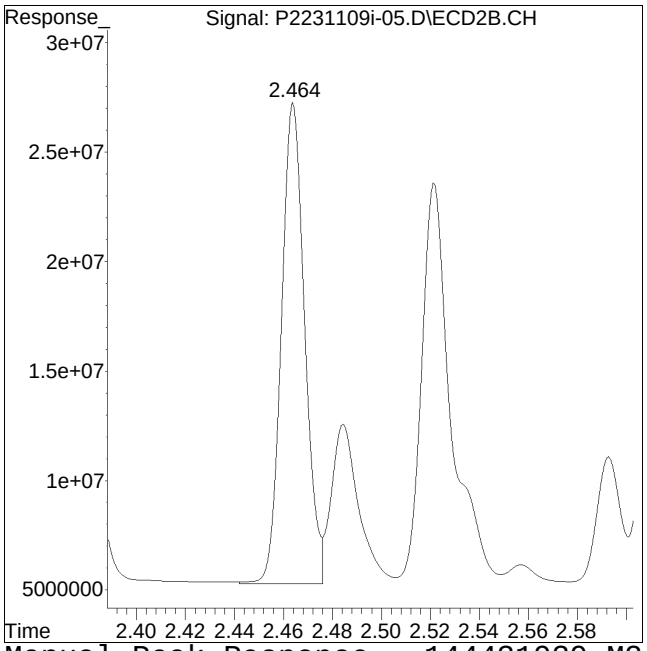
Original Peak Response = 75990210 Manual Peak Response = 114450822 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-05.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:23 pm Instrument : Pest 2
Sample : il41248,42,, 11345 Quant Date : 11/9/2023 3:31 pm

Compound #88: 1248-3 #2



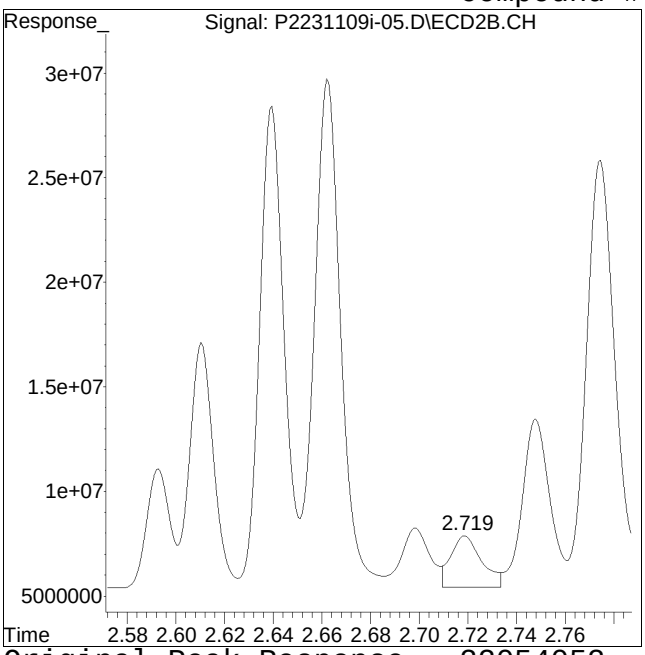


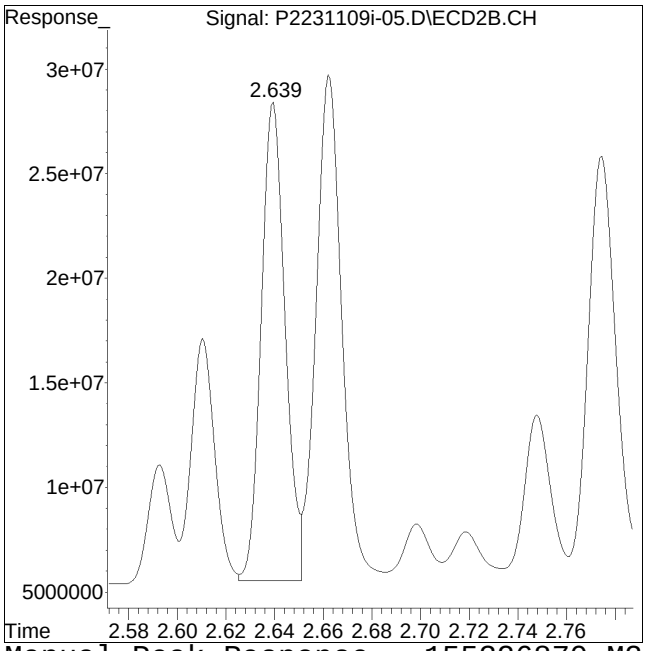
Original Peak Response = 151335122 Manual Peak Response = 144431939 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-05.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:23 pm Instrument : Pest 2
Sample : il41248,42,, 11345 Quant Date : 11/9/2023 3:31 pm

Compound #89: 1248-4 #2



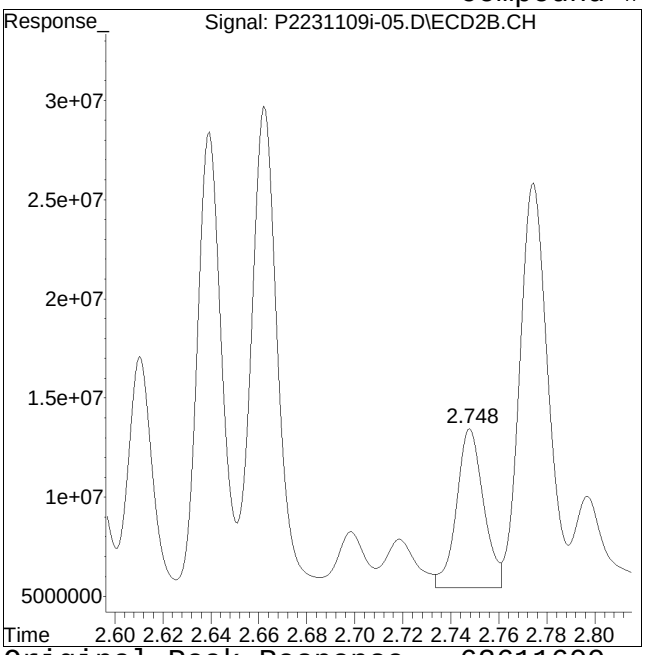


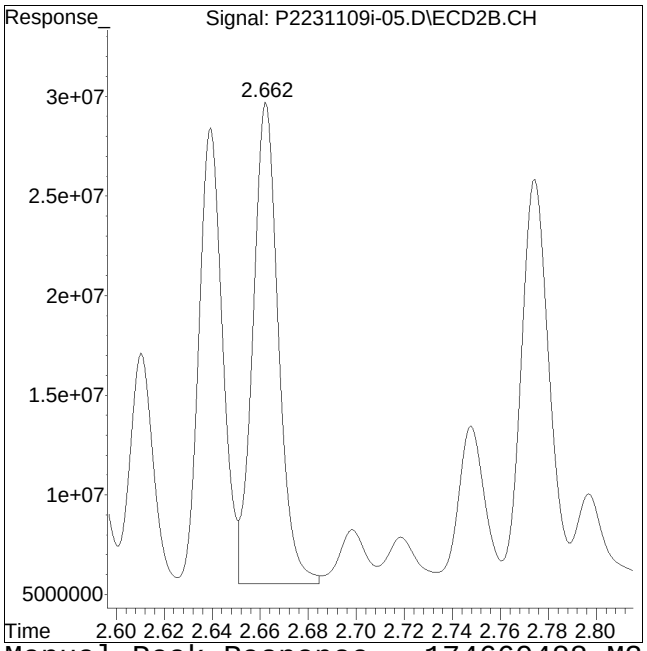
Original Peak Response = 22054052 Manual Peak Response = 155326870 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-05.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:23 pm Instrument : Pest 2
Sample : il41248,42,, 11345 Quant Date : 11/9/2023 3:31 pm

Compound #90: 1248-5 #2





Original Peak Response = 62611600 Manual Peak Response = 174660488 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:32 pm
Operator : pest2:rmp/kb
Sample : il42154,42,, 11341
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:42:51 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:41:51 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	1.184	1.253	219.3E6	274.9E6	25.000	25.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	20.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	1.526	1.738	32221692	51143426	250.000	249.181
16) l3	1221-3	1.585	1.797	21080597	30761568	248.521	249.181
17) l3	1221-4	1.602	1.823	83881272	110.2E6	250.000	249.181

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:32 pm
Operator : pest2:rmp/kb
Sample : il42154,42,, 11341
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:42:51 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:41:51 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1221-2			137.2E6	192.1E6	748.521	747.542
	Average 1221-2					249.507	249.181
18)	l4 1254-1	2.316	2.662	114.0E6	170.7E6	254.366	249.181
19)	l4 1254-2	2.428	2.749	209.1E6	198.1E6	242.949	249.181
20)	l4 1254-3	2.611	2.978	217.2E6	296.3E6	245.857	249.181
21)	l4 1254-4	2.740	3.090	160.1E6	190.2E6	256.440	249.181
22)	l4 1254-5	2.962	3.365	233.1E6	266.9E6	251.307	243.477M4
	Sum 1254-1			933.6E6	1122.4E6	N.D.	N.D. D
	Average 1254-1					250.184	248.040
24)	l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25)	l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26)	l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27)	l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28)	l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
	Average 1242-1					0.000	0.000
29)	l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31)	l9 1268-3	0.000	0.000	0	0	N.D.	N.D.
32)	l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33)	l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.
	Average 1268-1					0.000	0.000
35)	l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36)	l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37)	l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248-1			0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:32 pm
Operator : pest2:rmp/kb
Sample : il42154,42,, 11341
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:42:51 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:41:51 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

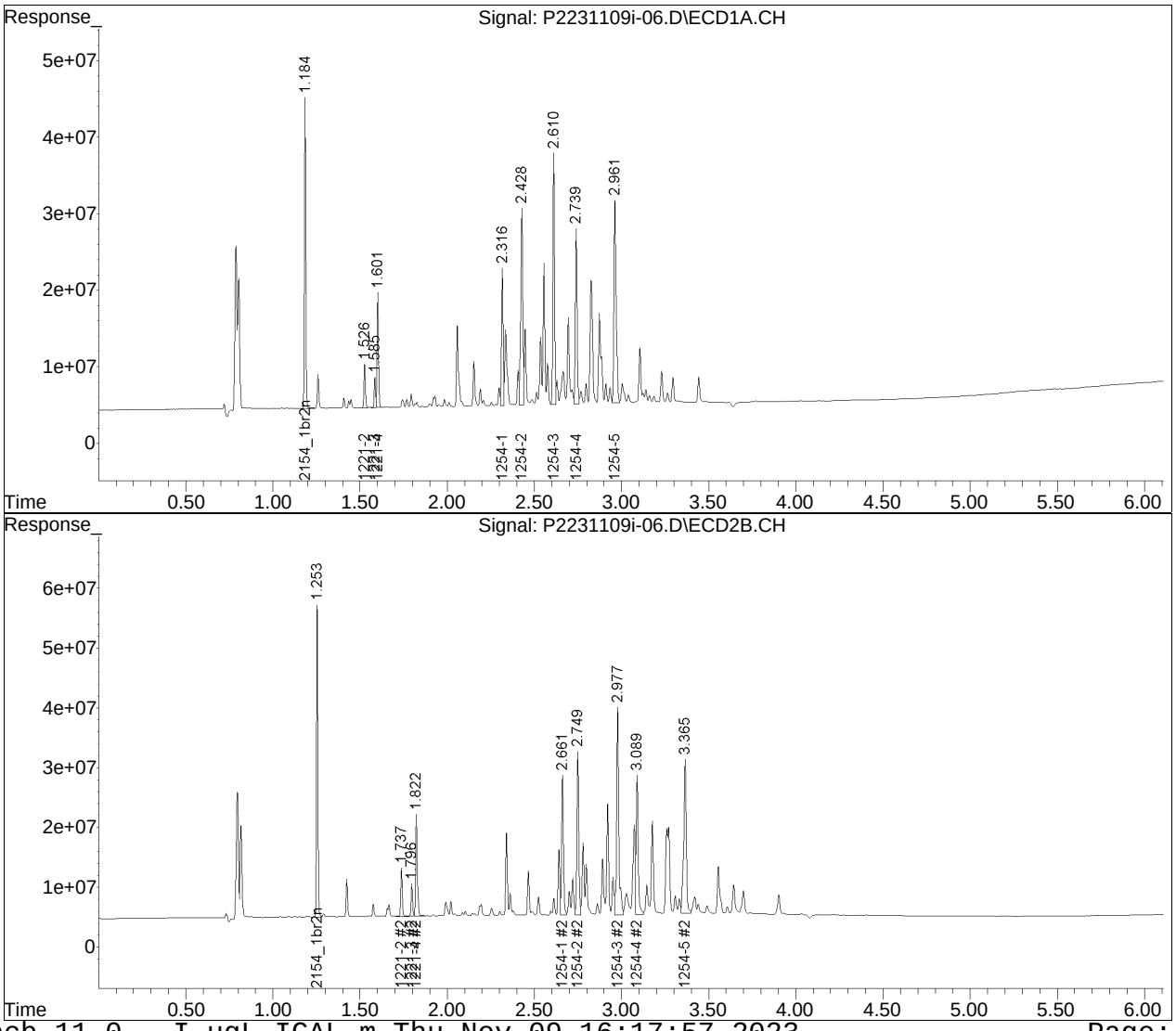
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:32 pm
Operator : pest2:rmp/kb
Sample : il42154,42,, 11341
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:42:51 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 15:41:51 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

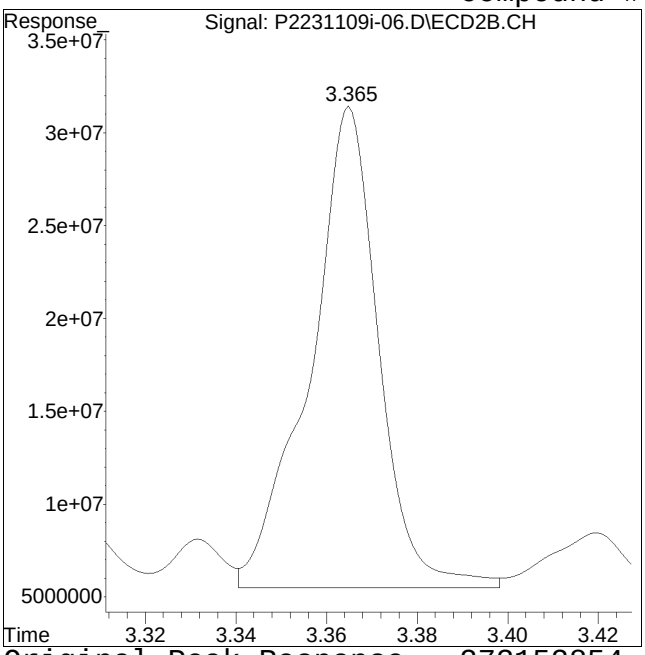
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

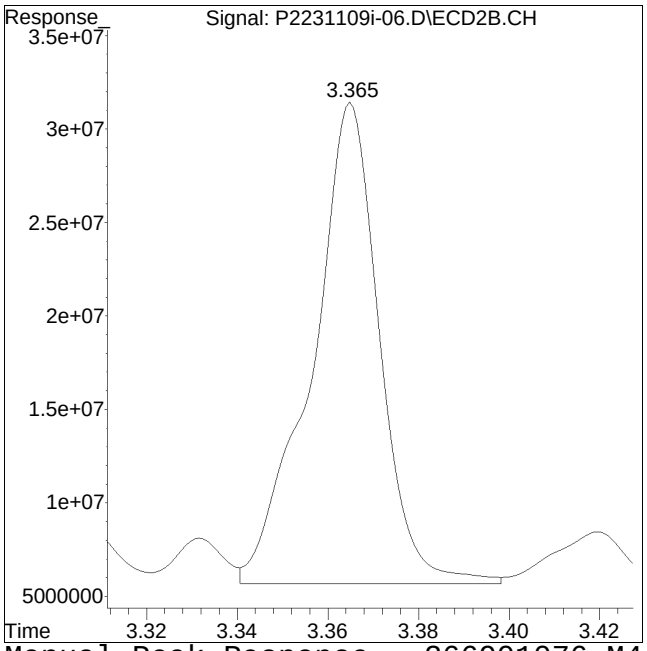


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-06.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:32 pm Instrument : Pest 2
Sample : il42154,42,, 11341 Quant Date : 11/9/2023 3:41 pm

Compound #73: 1254-5 #2





Original Peak Response = 273152854 Manual Peak Response = 266901076 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:41 pm
Operator : pest2:rmp/kb
Sample : il11660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:07:33 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:48:27 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.254	215.9E6	276.8E6	25.000M4	25.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.464	1.624	8609408	12999667	0.652M4	0.731M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	3.26%#	3.65%#
3) s	Decachlorobi	4.026	4.550	16198274	18786874	1.363M3	1.528M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	6.82%#	7.64%#
	Target Compounds						
4) l1	1016-1	1.601	1.822	2593267	3812746	11.457M4	11.131M4
5) l1	1016-2	1.741	1.993	5032737	8522373	11.172M4	12.206M4
6) l1	1016-3	1.928	2.194	10725422	16227899	10.575M4	11.825M4
7) l1	1016-4	1.983	2.255	4938416	6995086	11.395M4	11.999
8) l1	1016-5	2.152	2.464	5001492	5733567	10.941M4	12.185M4
	Sum 1016-1			28291333	41291671	55.539	59.345
	Average 1016-1					11.108	11.869
9) l2	1260-1	2.693	3.074	6965996	9683020	10.670M4	11.077M4
10) l2	1260-2	2.823	3.176	10618487	11054421	10.657M3	10.358M4

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:41 pm
Operator : pest2:rmp/kb
Sample : il11660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:07:33 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:48:27 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2	1260-3	3.138	3.568	7175398	9964661	10.653M4	11.499
12) l2	1260-4	3.294	3.699	14010933	18195506	9.793M4	10.969
13) l2	1260-5	3.442	3.900	10627063	13278048	13.780M4	11.750M4
Sum	1260-1			49397878	62175656	NoCal	NoCal D
Average	1260-1					11.111	11.131
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:41 pm
Operator : pest2:rmp/kb
Sample : il11660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:07:33 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:48:27 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33)	l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35)	l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36)	l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37)	l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45)	l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49)	l8 1262-4	0.000	0.000	0	0	N.D.	N.D.
50)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:41 pm
Operator : pest2:rmp/kb
Sample : il11660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:07:33 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:48:27 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

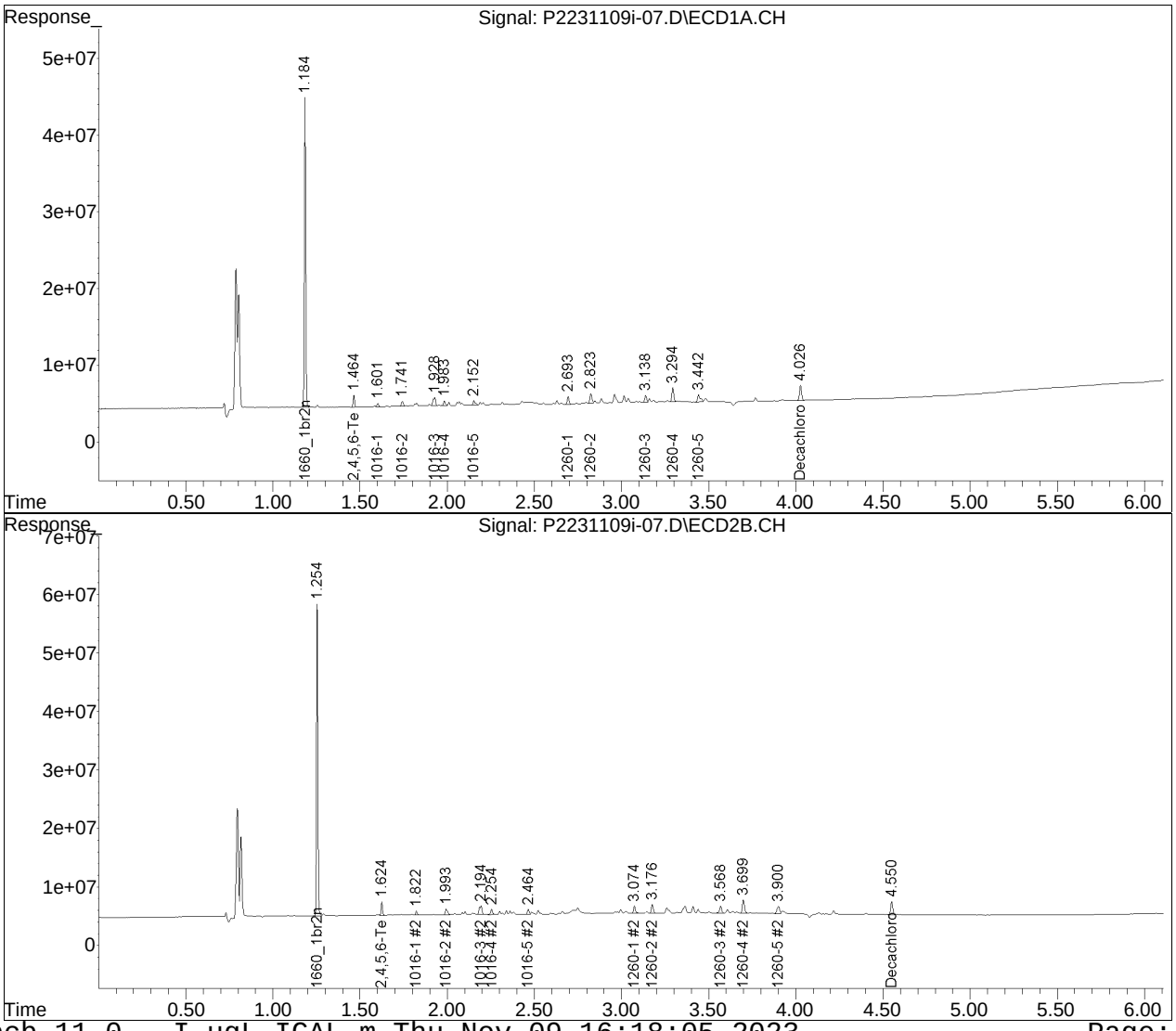
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:41 pm
Operator : pest2:rmp/kb
Sample : il11660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:07:33 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:48:27 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

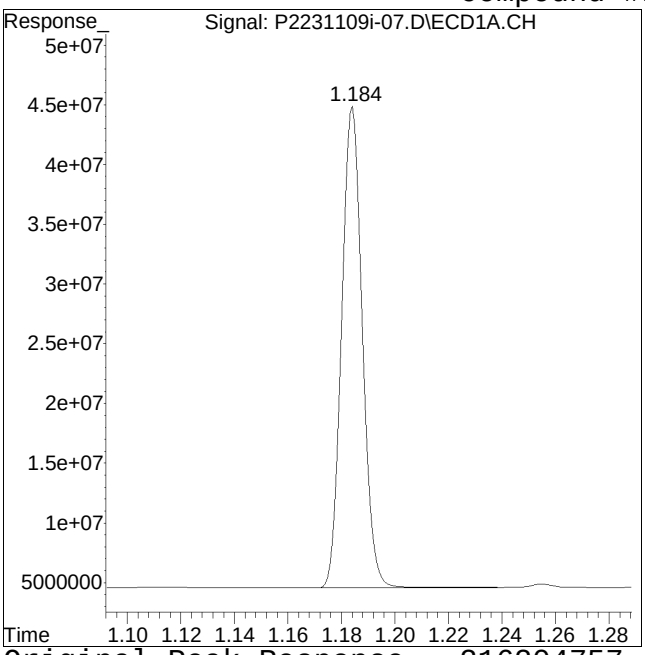
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

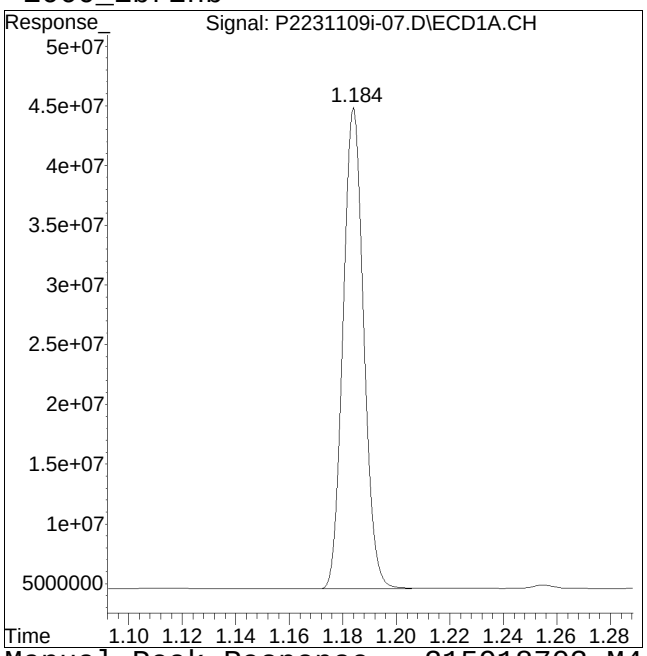


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #1: 1660_1br2nb



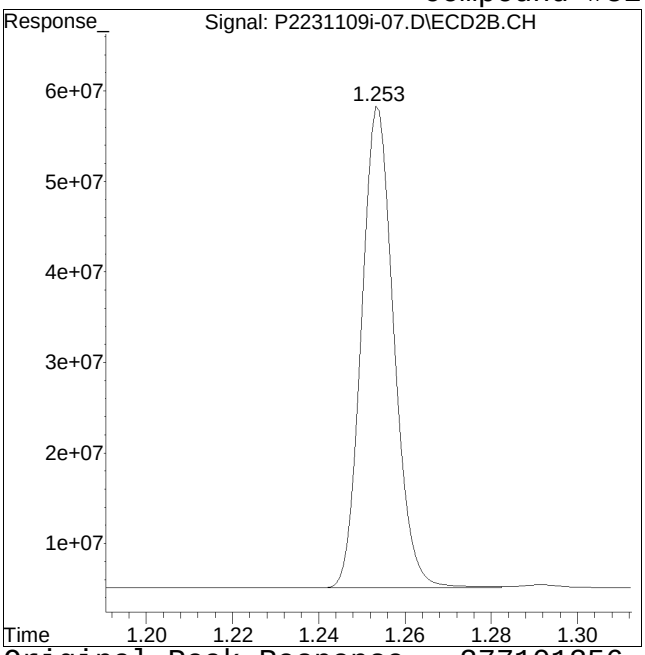


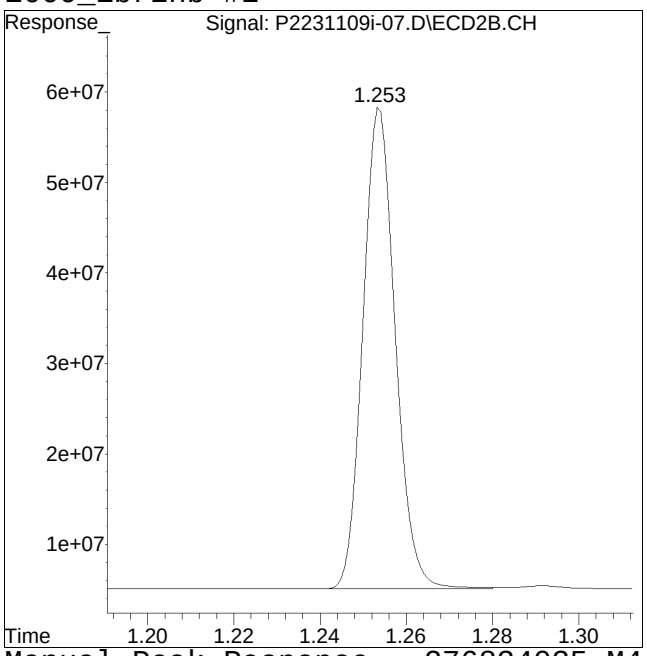
Original Peak Response = 216204757 Manual Peak Response = 215918703 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #52: 1660_1br2nb #2



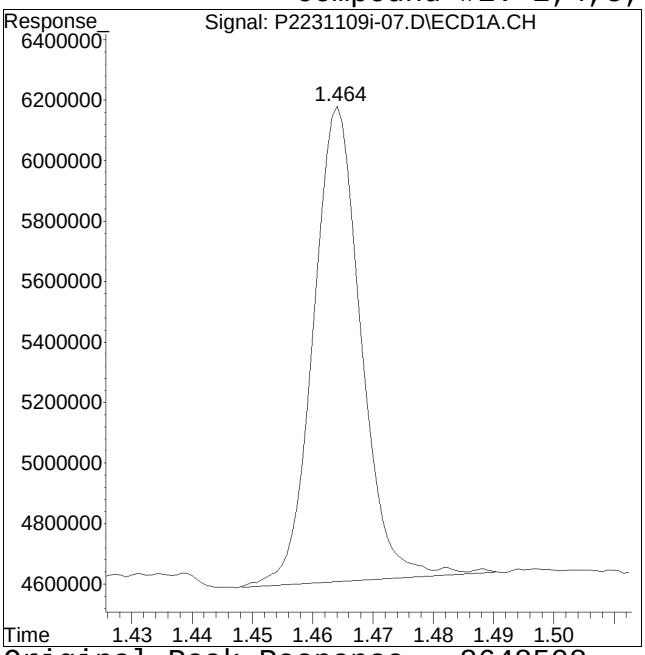


Original Peak Response = 277101356 Manual Peak Response = 276834035 M4
M4 = Poor automated baseline construction.

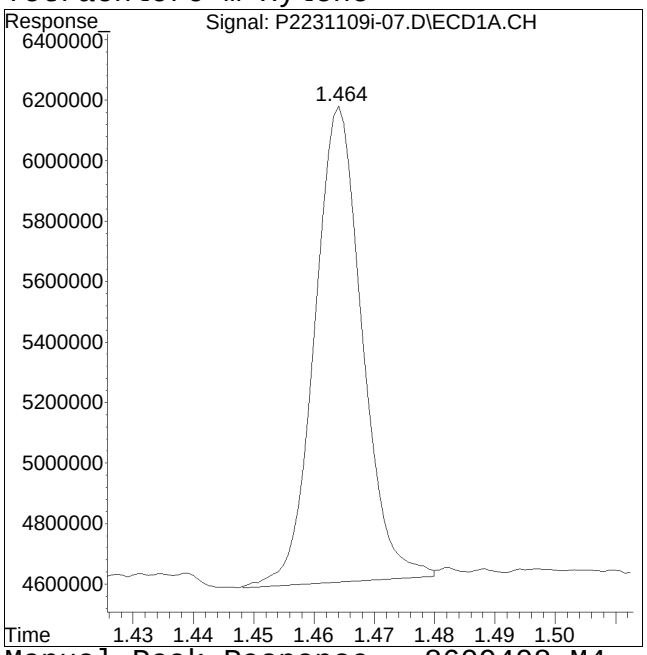
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 8648508



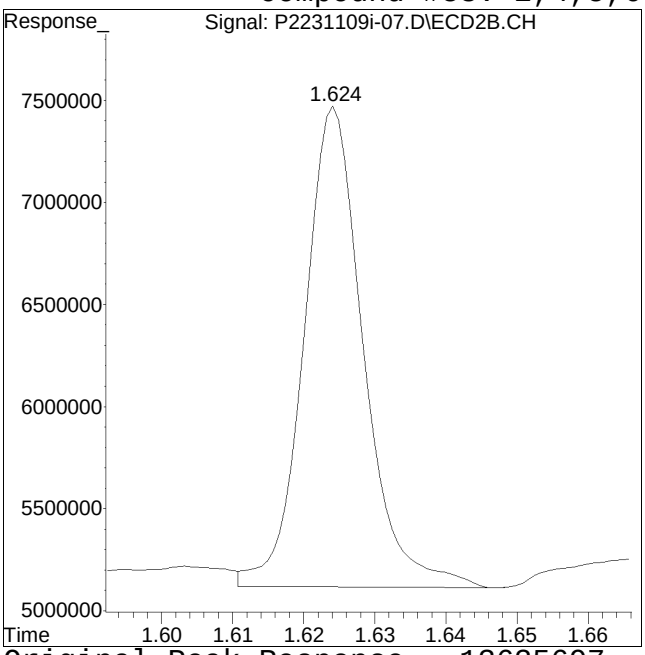
Manual Peak Response = 8609408 M4

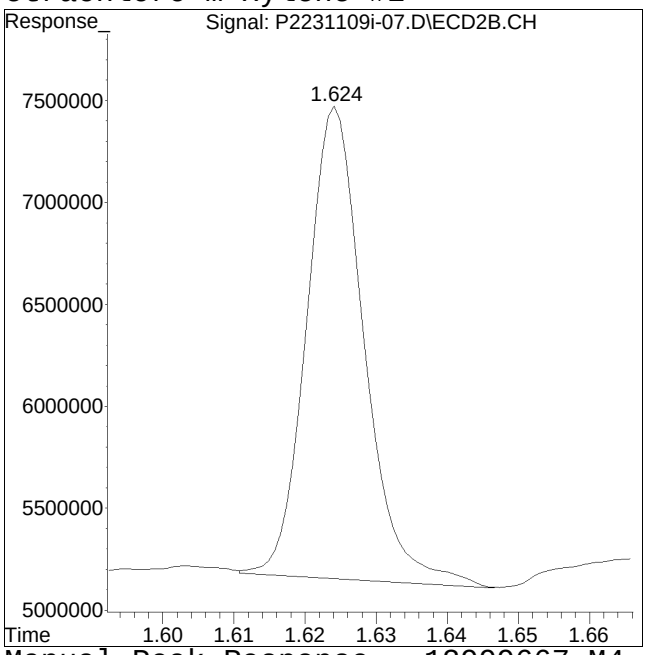
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



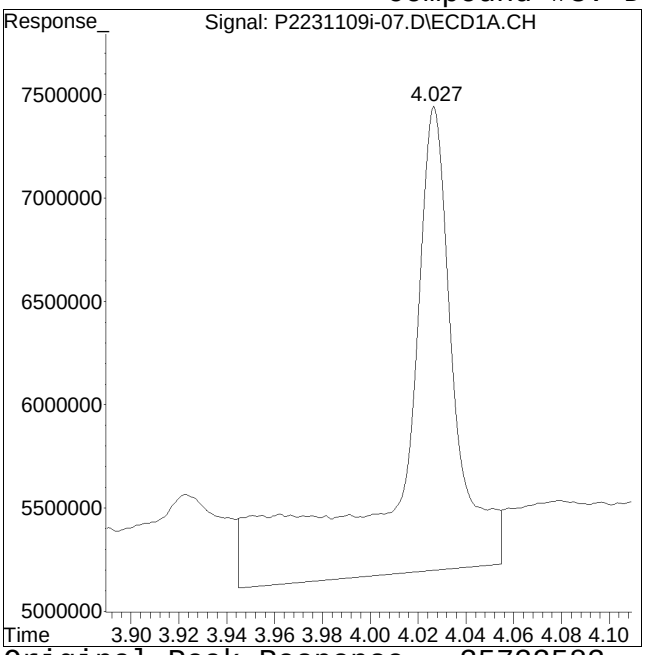


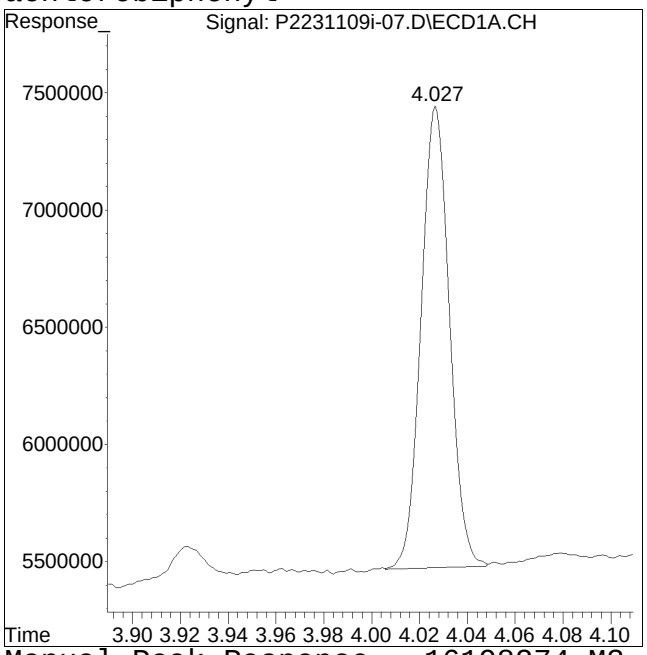
Original Peak Response = 13635697 Manual Peak Response = 12999667 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #3: Decachlorobiphenyl



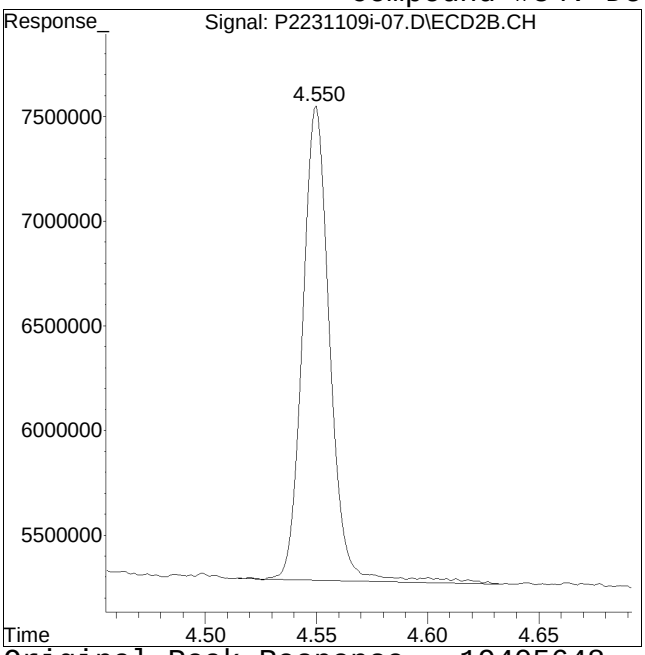


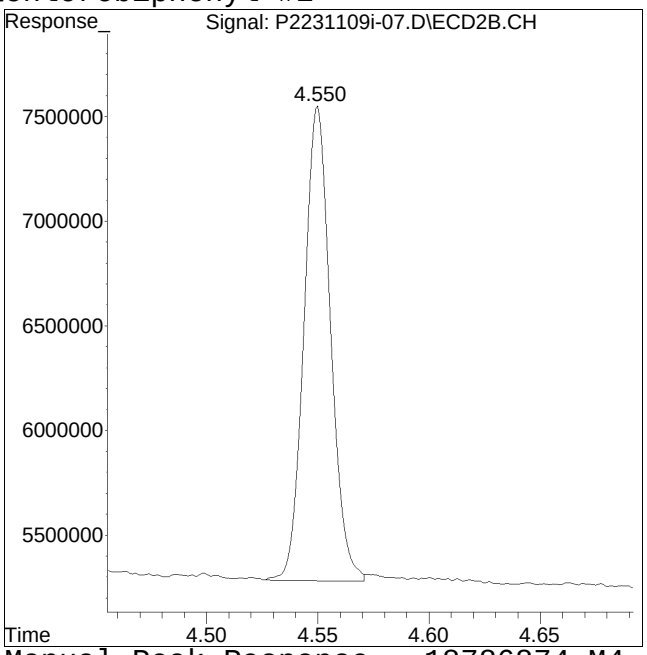
Original Peak Response = 35733583 Manual Peak Response = 16198274 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #54: Decachlorobiphenyl #2



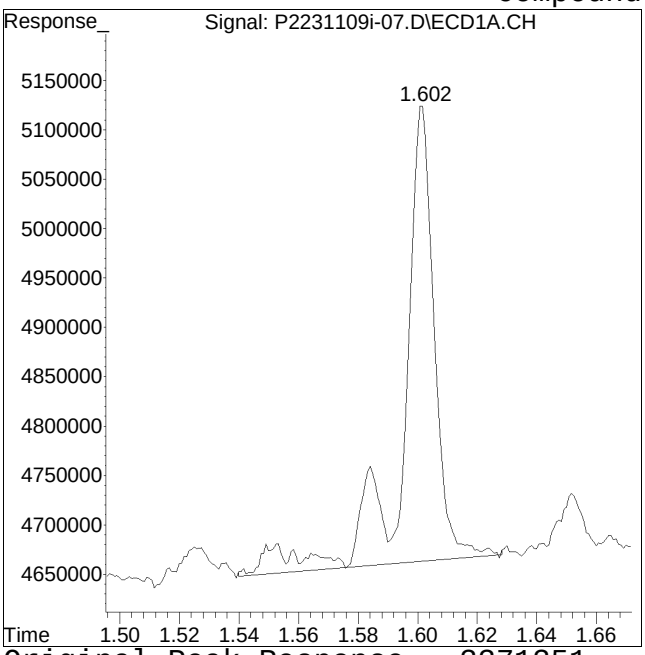


Original Peak Response = 19405648 Manual Peak Response = 18786874 M4
M4 = Poor automated baseline construction.

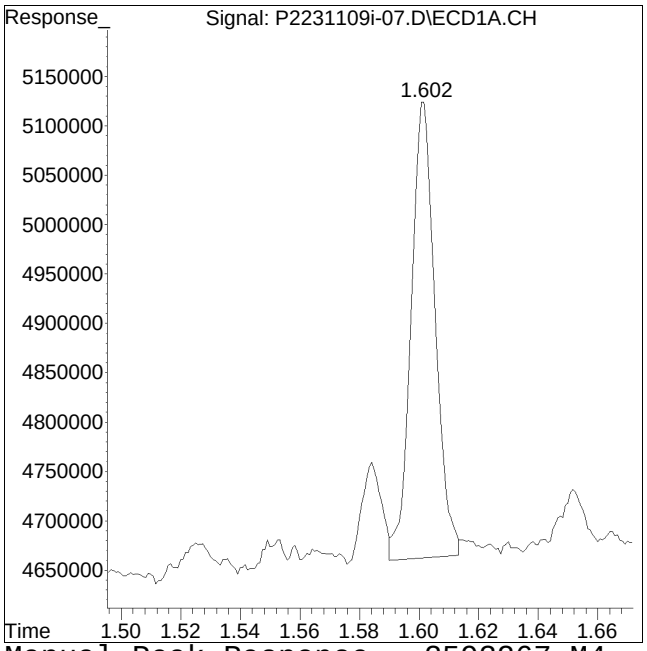
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #4: 1016-1



Original Peak Response = 3371351



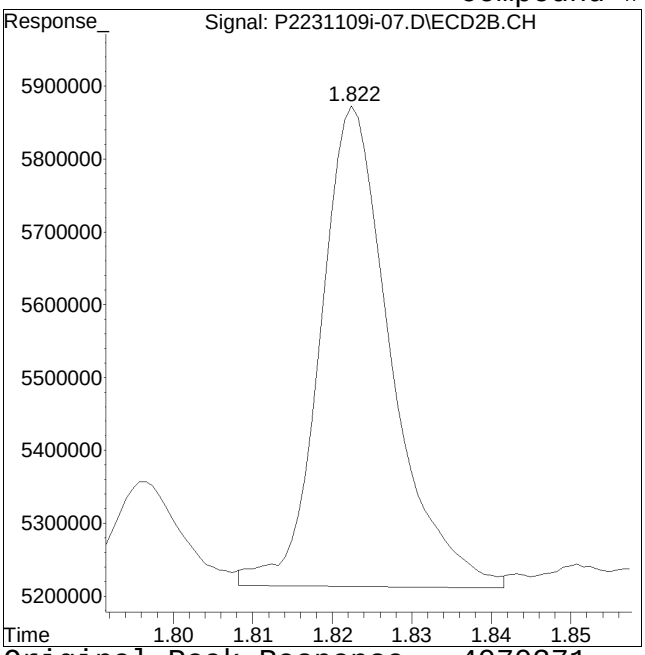
Manual Peak Response = 2593267 M4

M4 = Poor automated baseline construction.

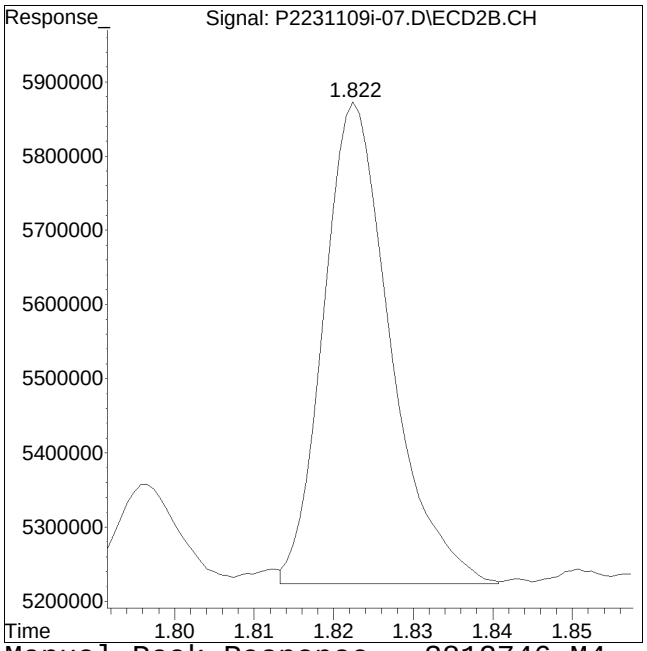
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #55: 1016-1 #2



Original Peak Response = 4070371



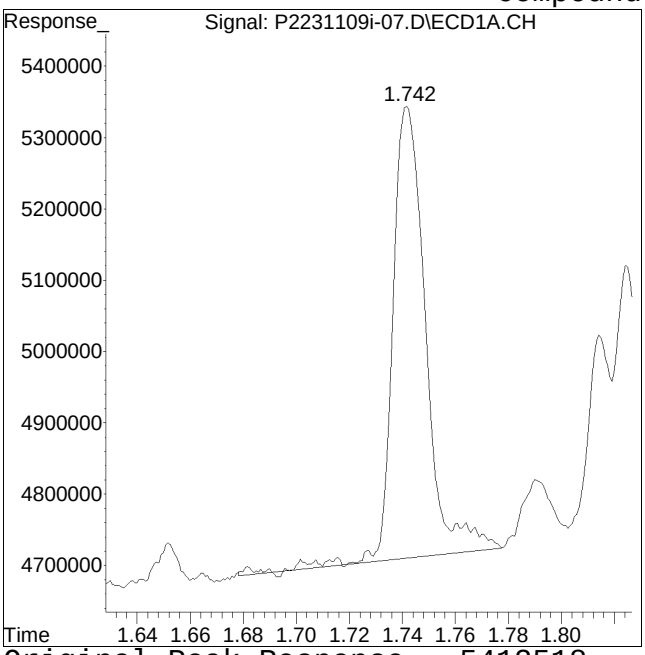
Manual Peak Response = 3812746 M4

M4 = Poor automated baseline construction.

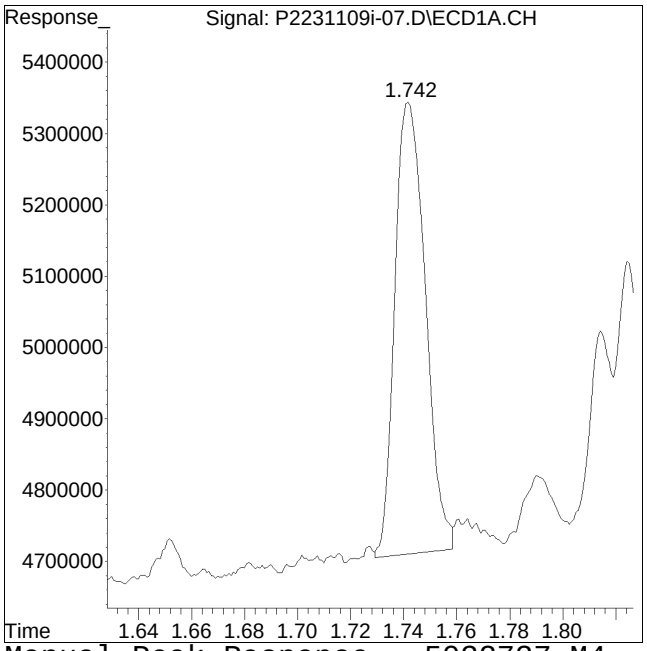
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #5: 1016-2



Original Peak Response = 5412518



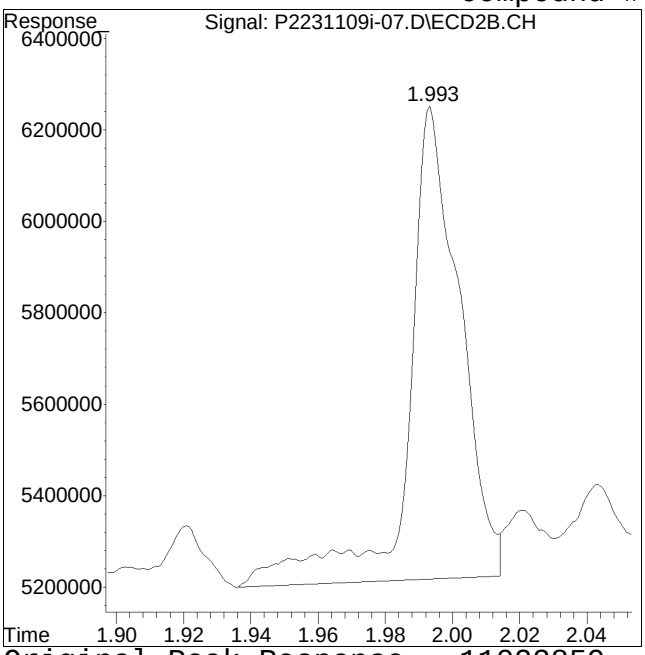
Manual Peak Response = 5032737 M4

M4 = Poor automated baseline construction.

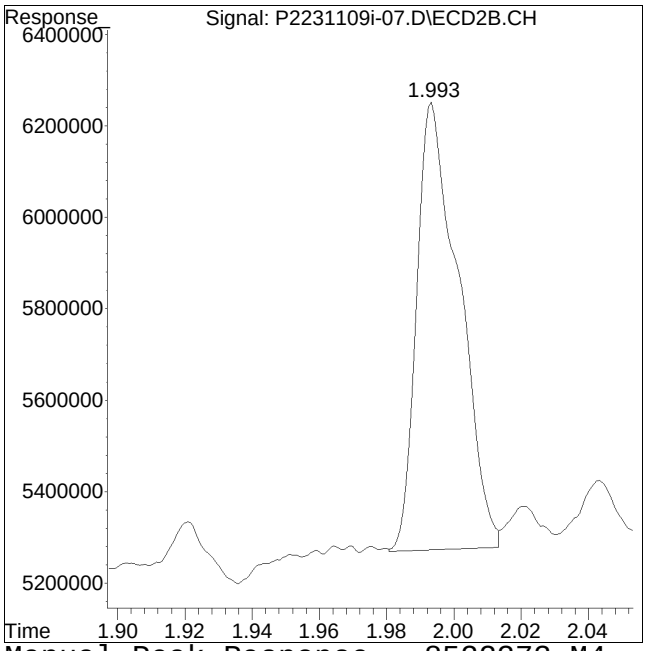
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #56: 1016-2 #2



Original Peak Response = 11022859



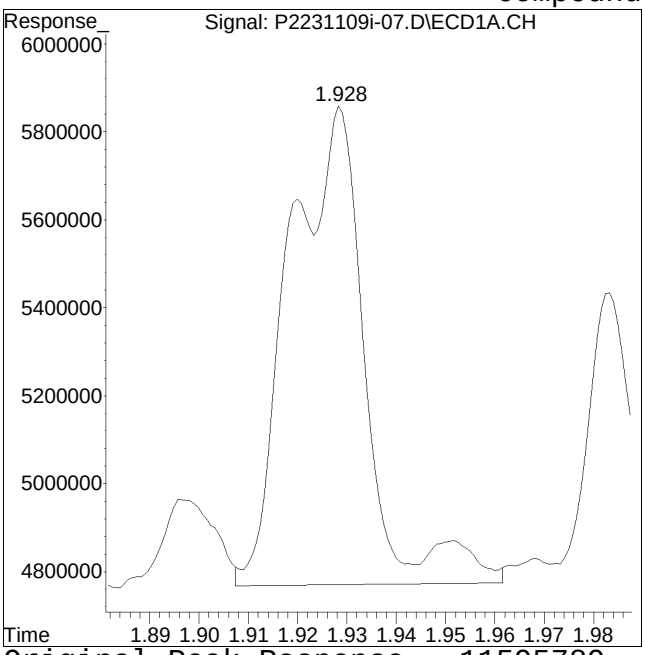
Manual Peak Response = 8522373 M4

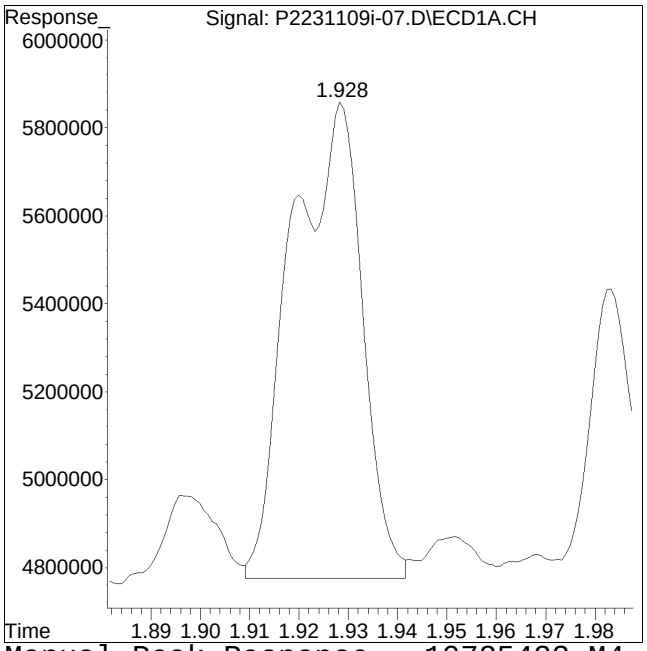
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #6: 1016-3



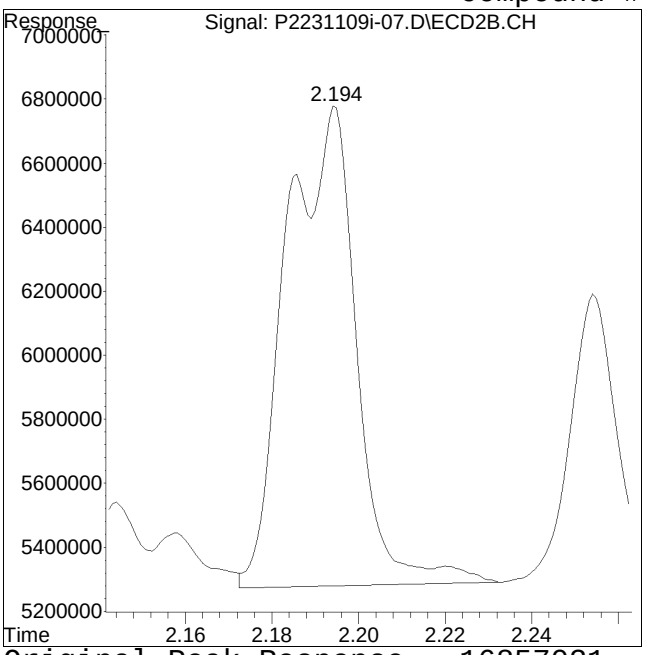


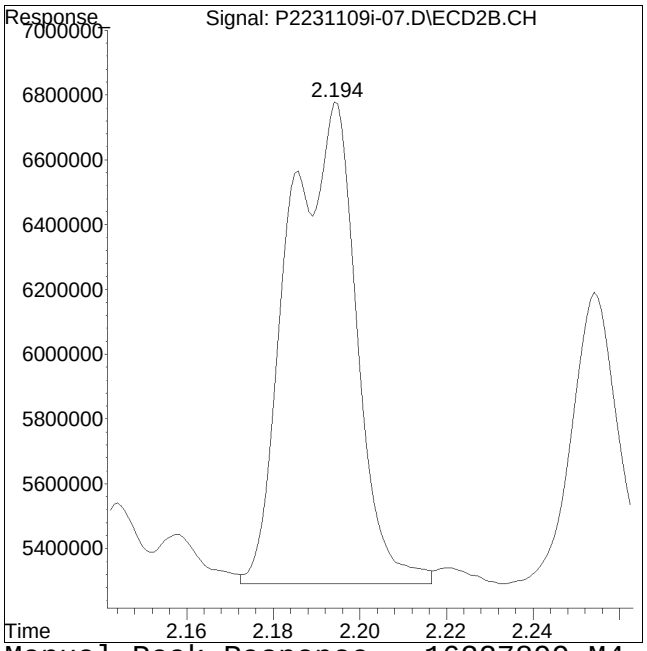
Original Peak Response = 11595789 Manual Peak Response = 10725422 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #57: 1016-3 #2



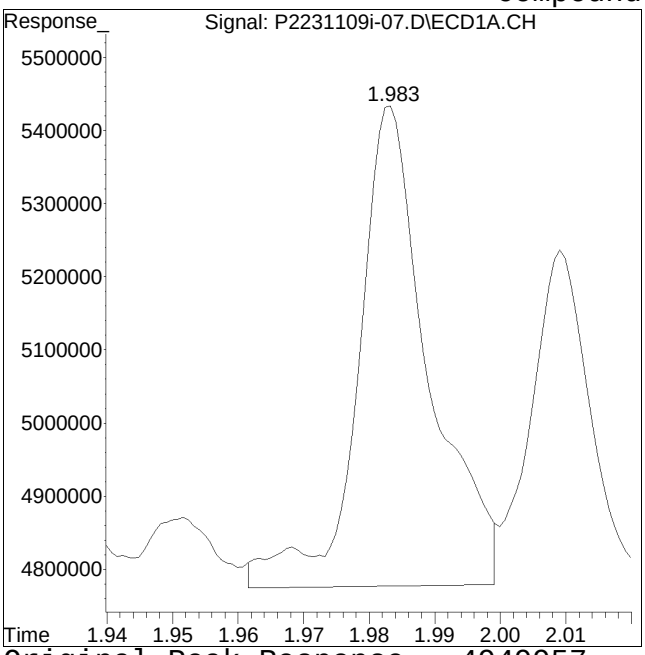


Original Peak Response = 16857031 Manual Peak Response = 16227899 M4
M4 = Poor automated baseline construction.

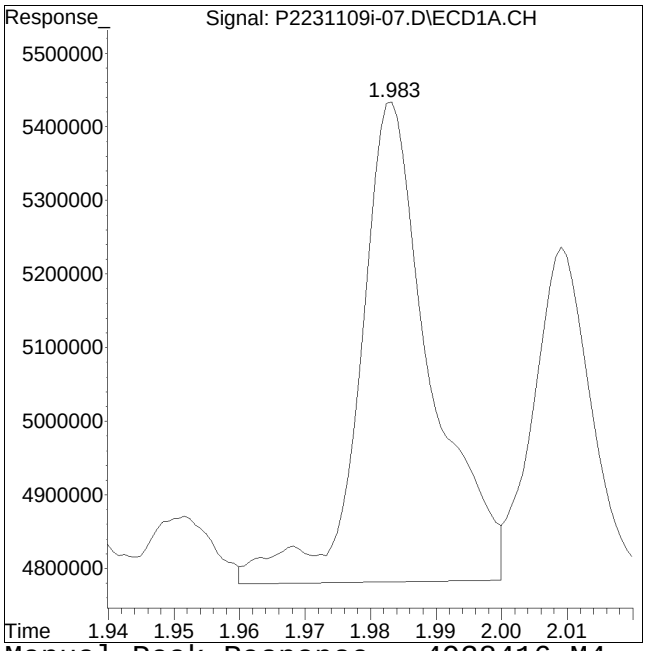
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #7: 1016-4



Original Peak Response = 4949957



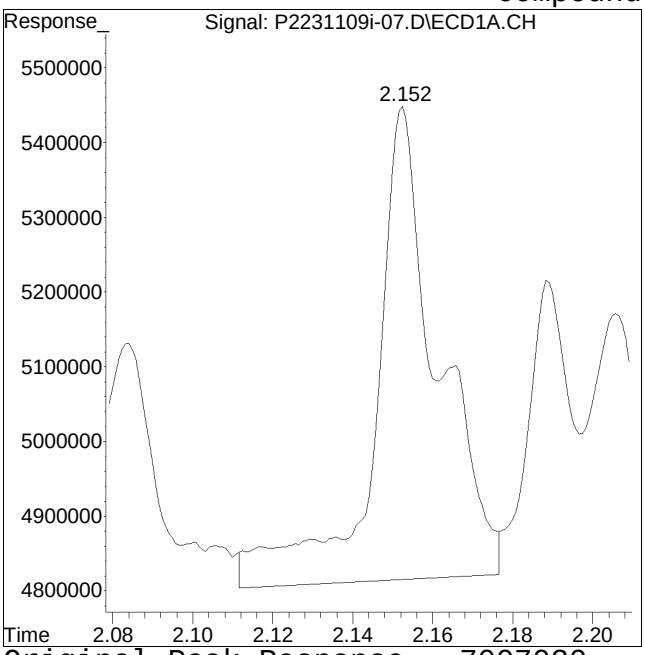
Manual Peak Response = 4938416 M4

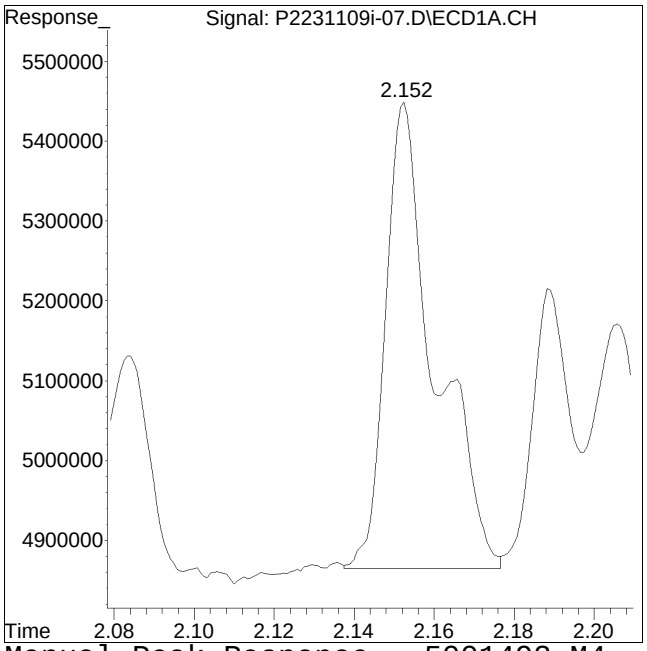
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #8: 1016-5



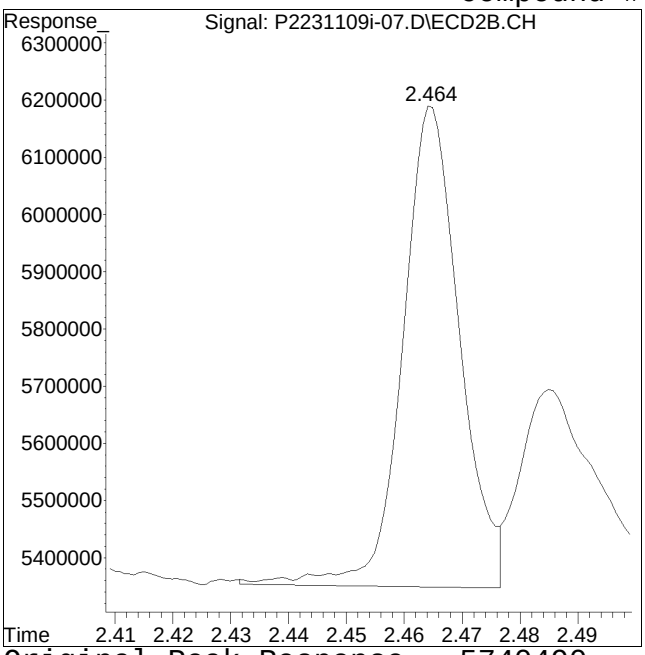


Original Peak Response = 7007020 Manual Peak Response = 5001492 M4
M4 = Poor automated baseline construction.

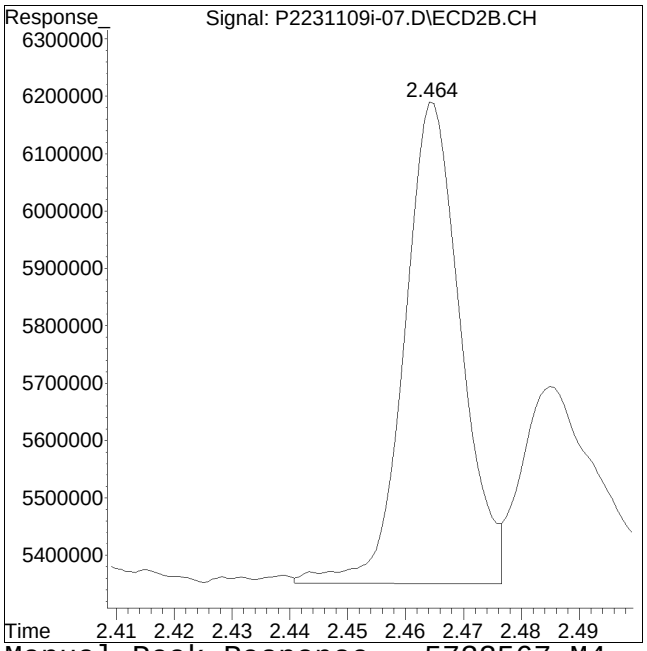
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #59: 1016-5 #2



Original Peak Response = 5740490



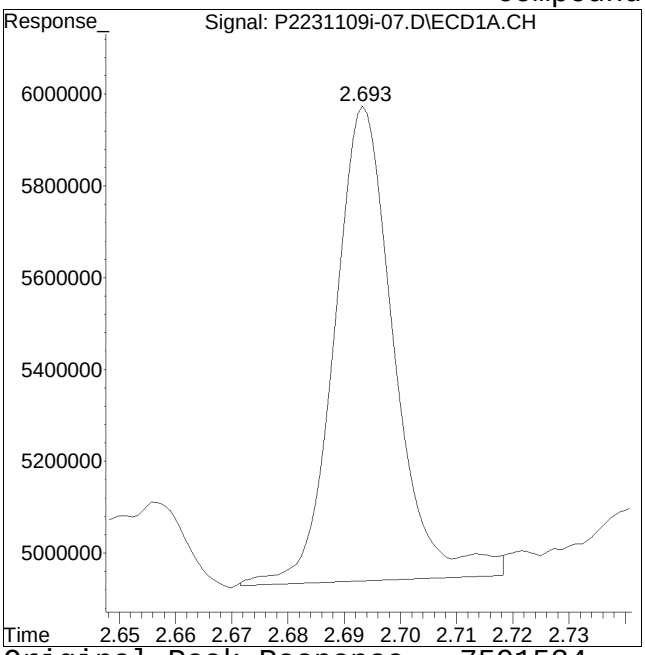
Manual Peak Response = 5733567 M4

M4 = Poor automated baseline construction.

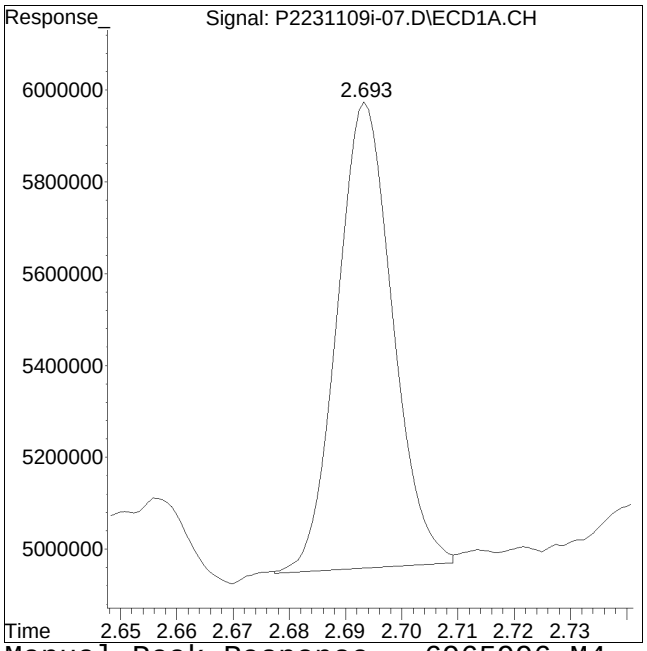
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #9: 1260-1



Original Peak Response = 7591534



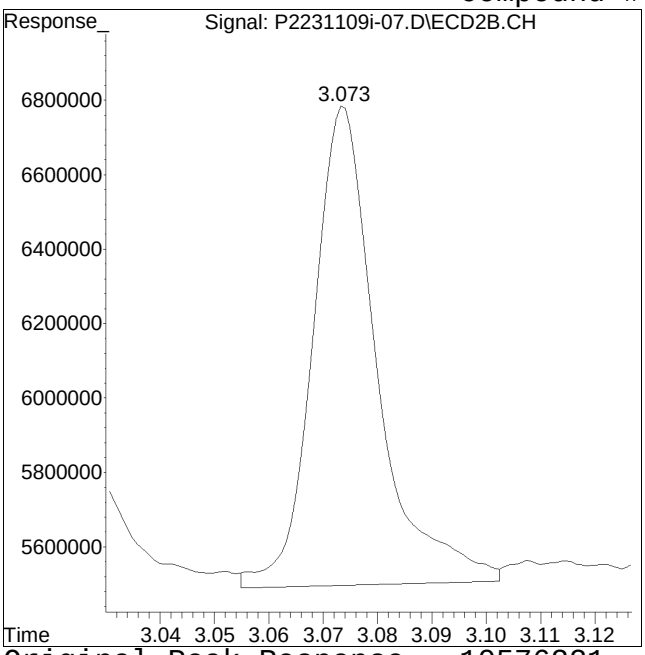
Manual Peak Response = 6965996 M4

M4 = Poor automated baseline construction.

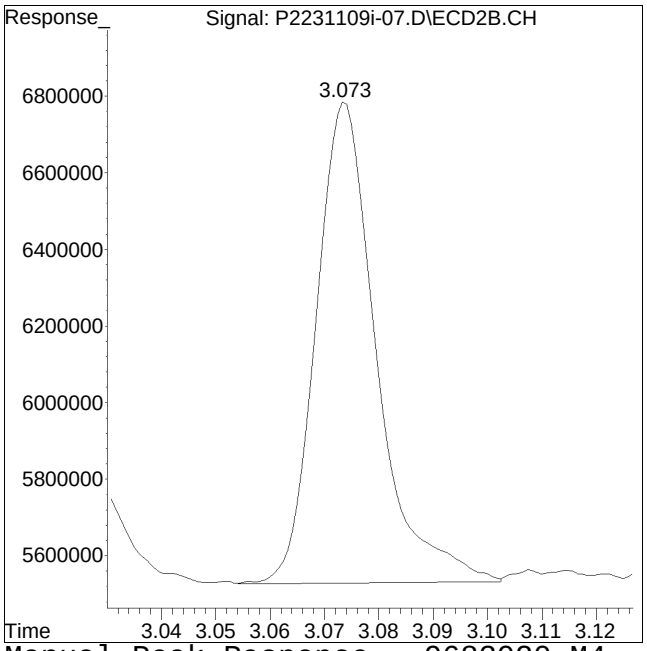
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #60: 1260-1 #2



Original Peak Response = 10576221



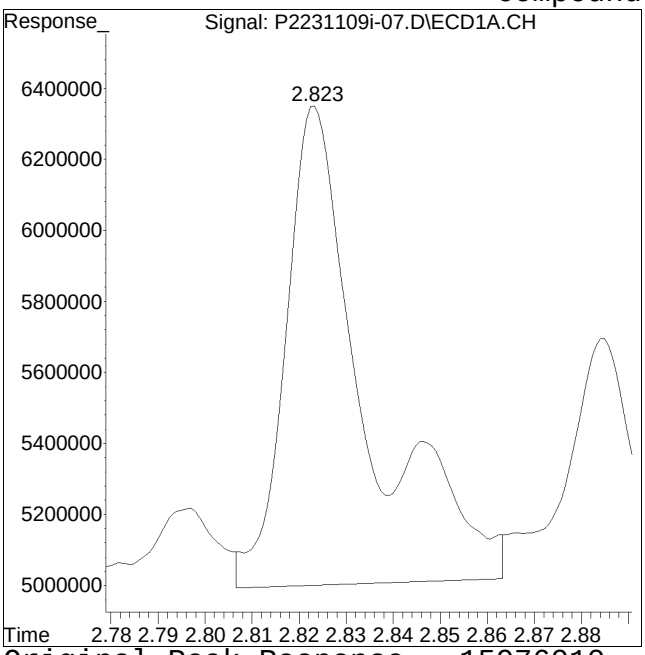
Manual Peak Response = 9683020 M4

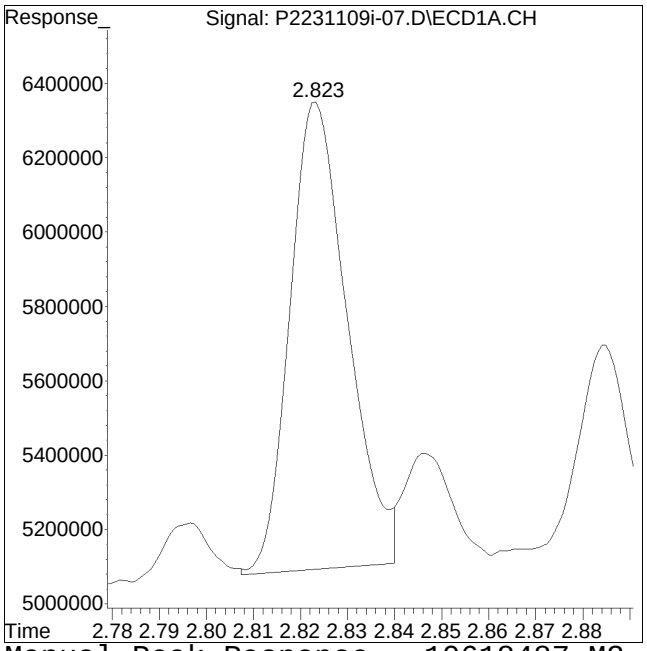
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #10: 1260-2



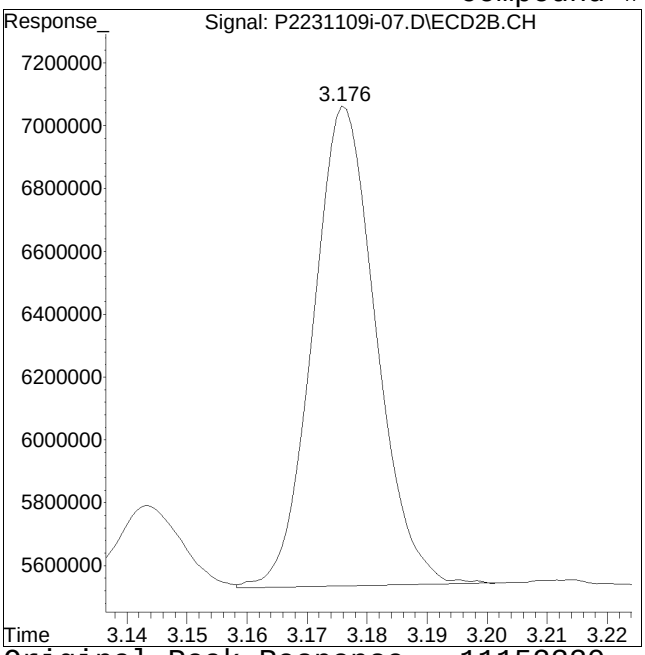


Original Peak Response = 15976010 Manual Peak Response = 10618487 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

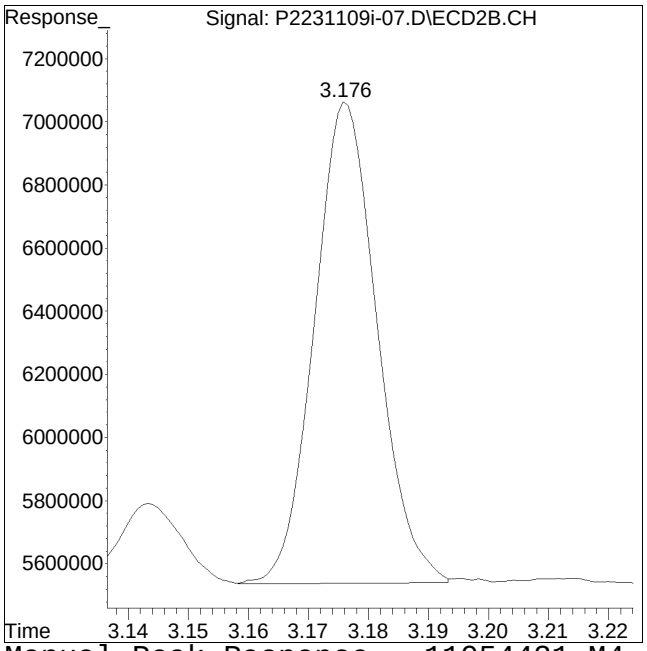
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #61: 1260-2 #2



Original Peak Response = 11152330



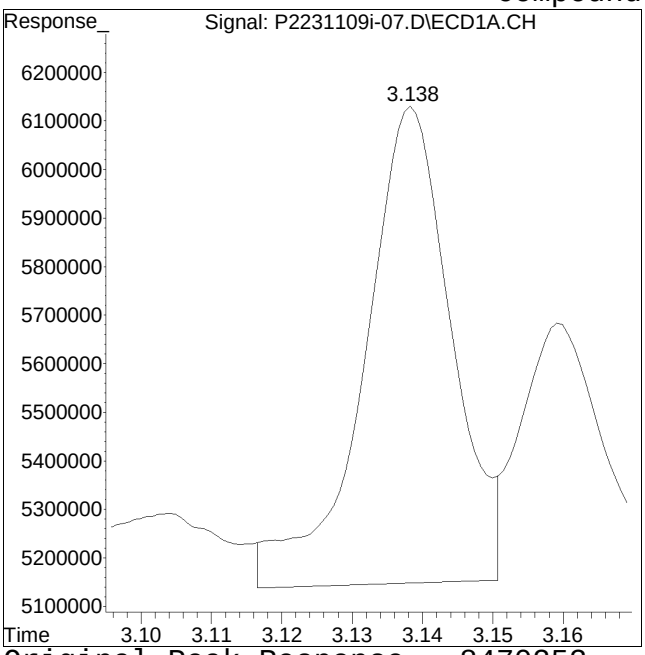
Manual Peak Response = 11054421 M4

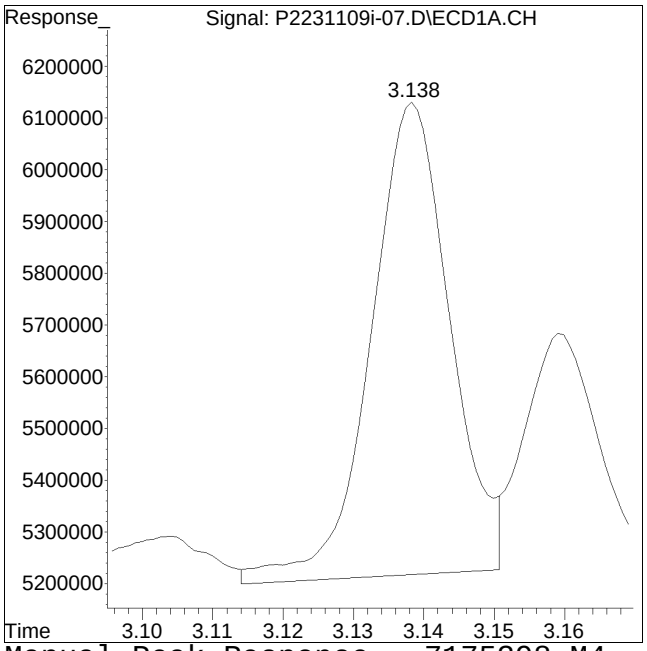
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #11: 1260-3



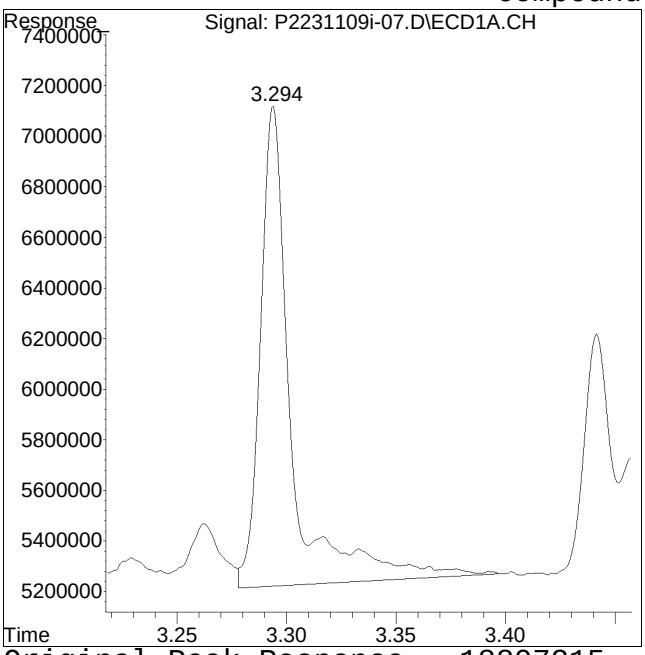


Original Peak Response = 8470253 Manual Peak Response = 7175398 M4
M4 = Poor automated baseline construction.

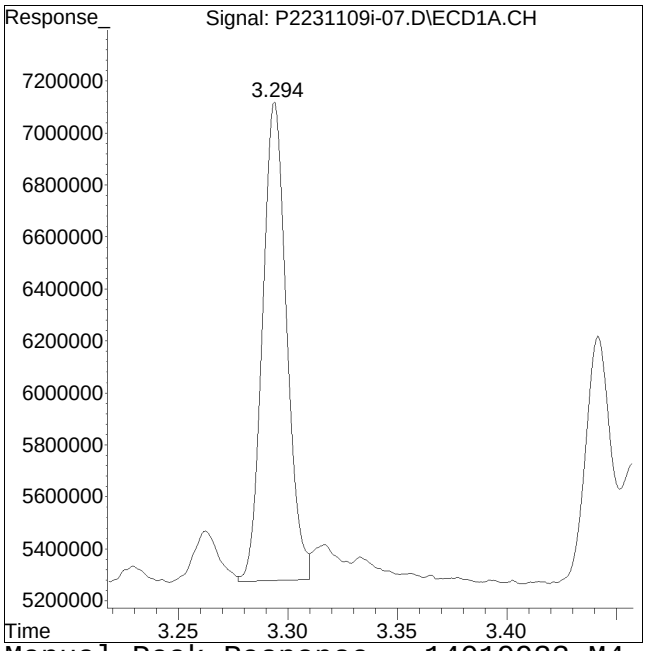
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #12: 1260-4



Original Peak Response = 18807215



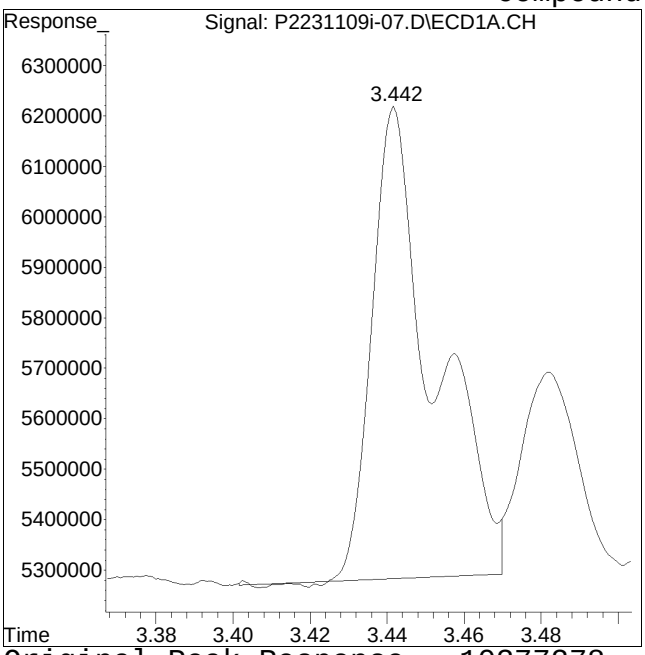
Manual Peak Response = 14010933 M4

M4 = Poor automated baseline construction.

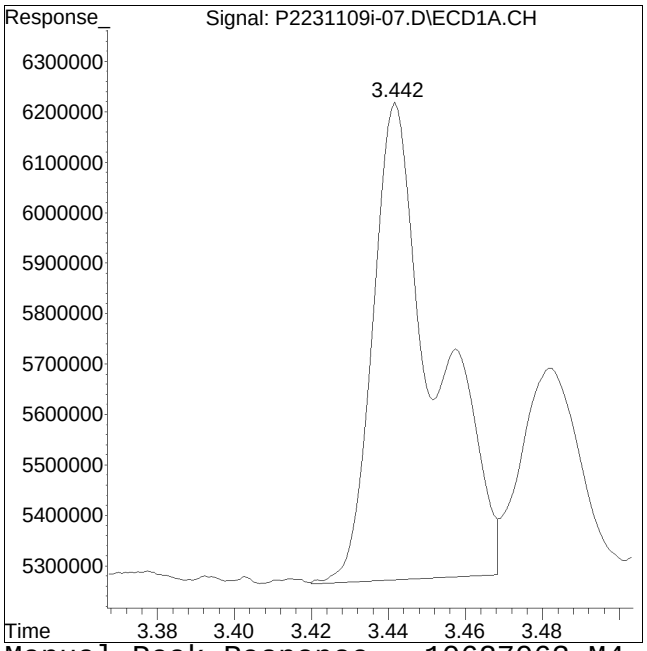
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #13: 1260-5



Original Peak Response = 10377278



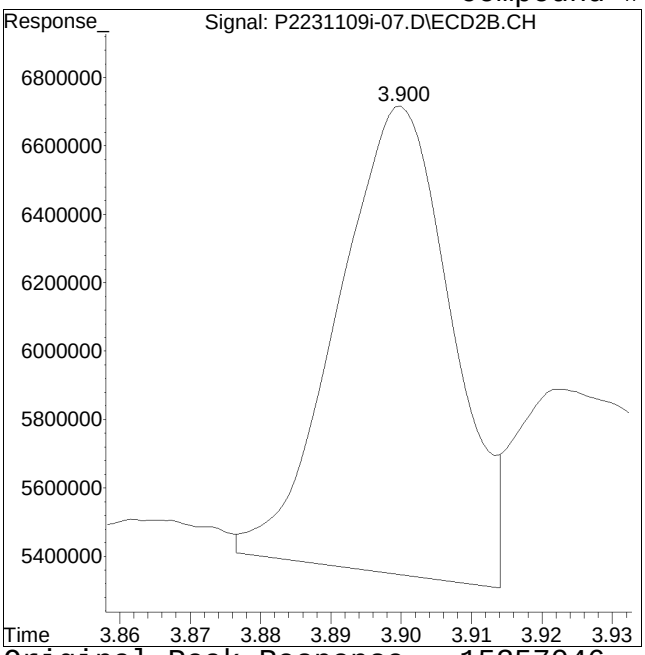
Manual Peak Response = 10627063 M4

M4 = Poor automated baseline construction.

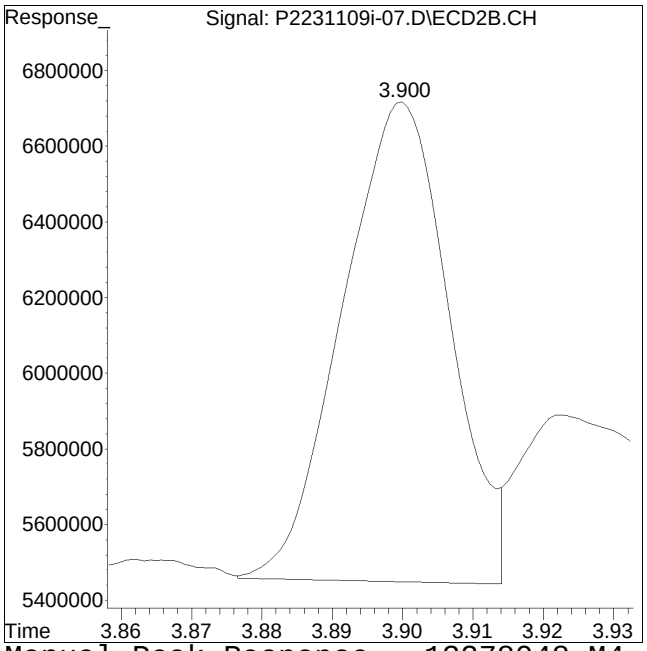
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-07.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:41 pm Instrument : Pest 2
Sample : il11660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #64: 1260-5 #2



Original Peak Response = 15357046



Manual Peak Response = 13278048 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:50 pm
Operator : pest2:rmp/kb
Sample : il21660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:02:43 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:48:56 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.254	214.6E6	271.9E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.625	39963296	57367695	3.010M4	2.990M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		15.05%#	14.95%#
3) s	Decachlorobi	4.028	4.551	75825520	84136707	3.794M4	6.188M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		18.97%#	30.94%
	Target Compounds						
4) l1	1016-1	1.603	1.823	11913677	16963143	42.574	46.097M4
5) l1	1016-2	1.742	1.994	23967676	37803568	48.661M3	42.772M4
6) l1	1016-3	1.930	2.195	50062550	70947668	46.370	47.259M4
7) l1	1016-4	1.985	2.255	22000714	30104987	47.715	47.816M4
8) l1	1016-5	2.154	2.465	22639335	23172920	39.373	45.188M4
	Sum 1016-1			130.6E6	179.0E6	224.693	229.132
	Average 1016-1					44.939	45.826
9) l2	1260-1	2.695	3.075	32971065	44733958	47.016	47.171M4
10) l2	1260-2	2.825	3.177	50541633	50965246	39.234	47.566M4
11) l2	1260-3	3.141	3.569	33409152	44238292	44.241	48.369
12) l2	1260-4	3.296	3.700	68308286	83614580	41.536	48.966
13) l2	1260-5	3.443	3.901	51916349	58141533	57.790M1	44.429M4
	Sum 1260-1			237.1E6	281.7E6	NoCal	NoCal D
	Average 1260-1					45.963	47.300

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:50 pm
Operator : pest2:rmp/kb
Sample : il21660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:02:43 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:48:56 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:50 pm
Operator : pest2:rmp/kb
Sample : il21660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:02:43 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:48:56 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

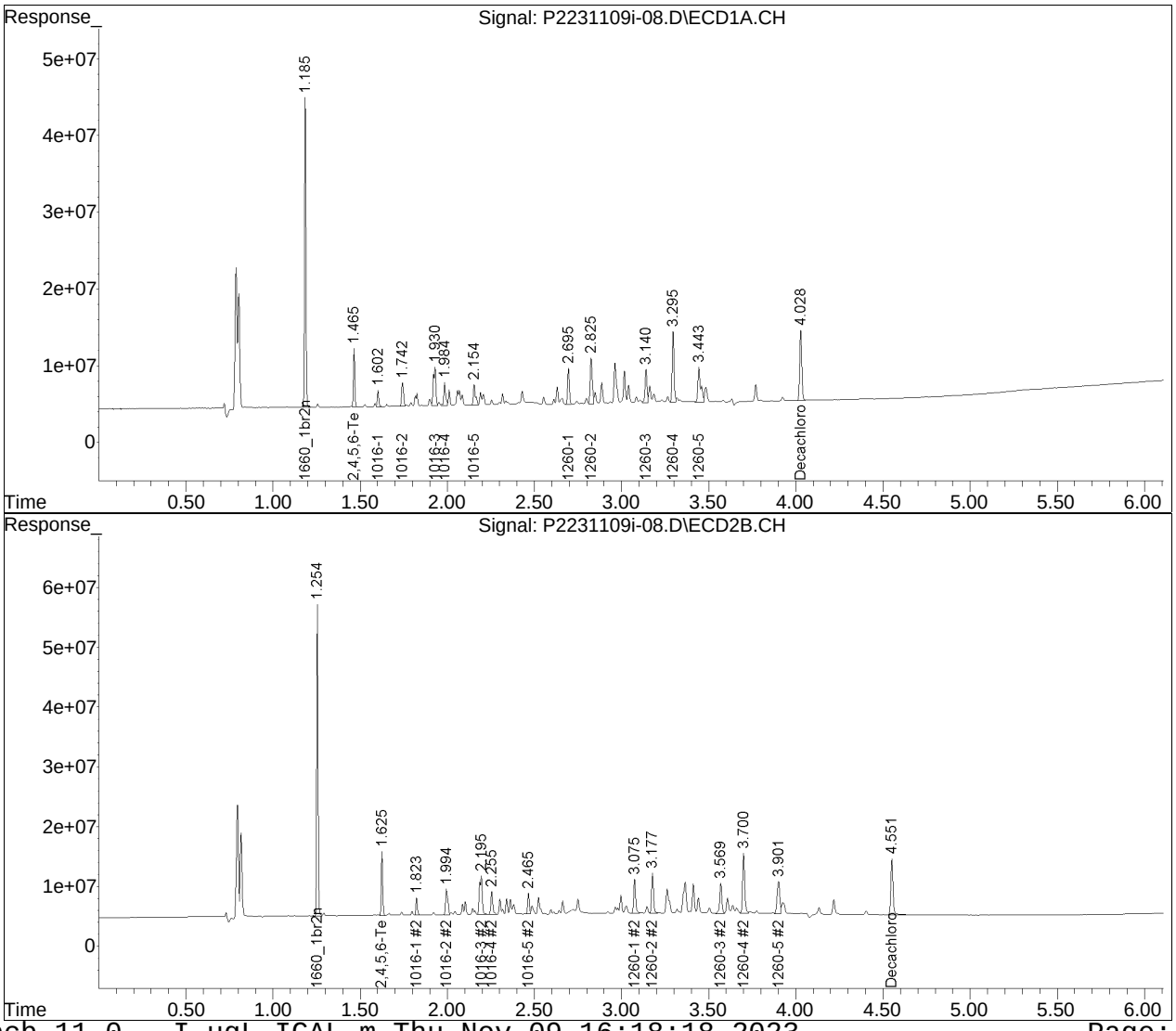
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:50 pm
Operator : pest2:rmp/kb
Sample : il21660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:02:43 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:48:56 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

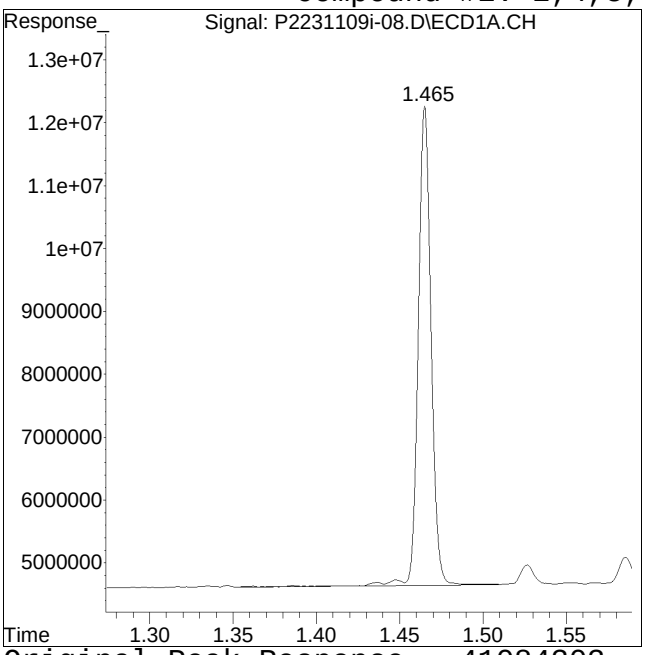
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

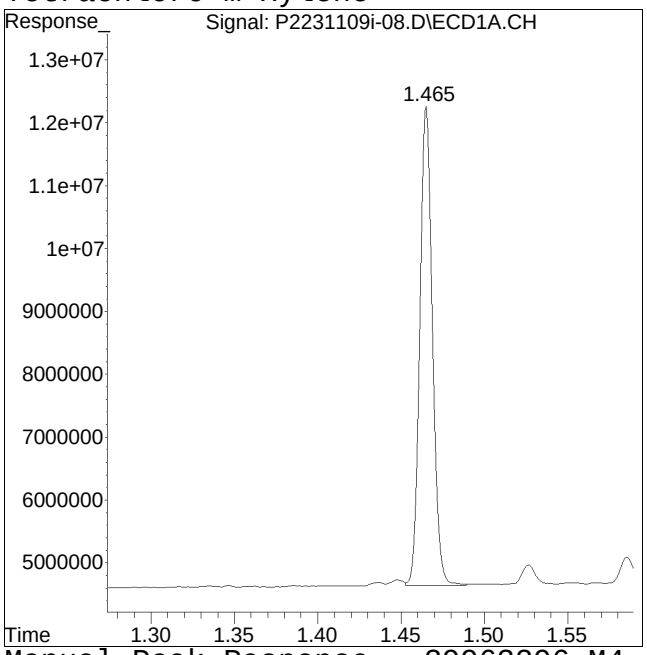


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



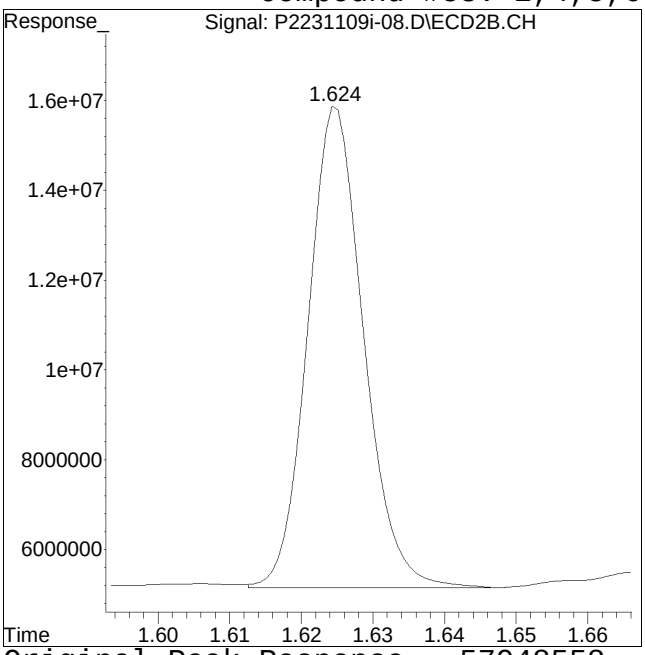


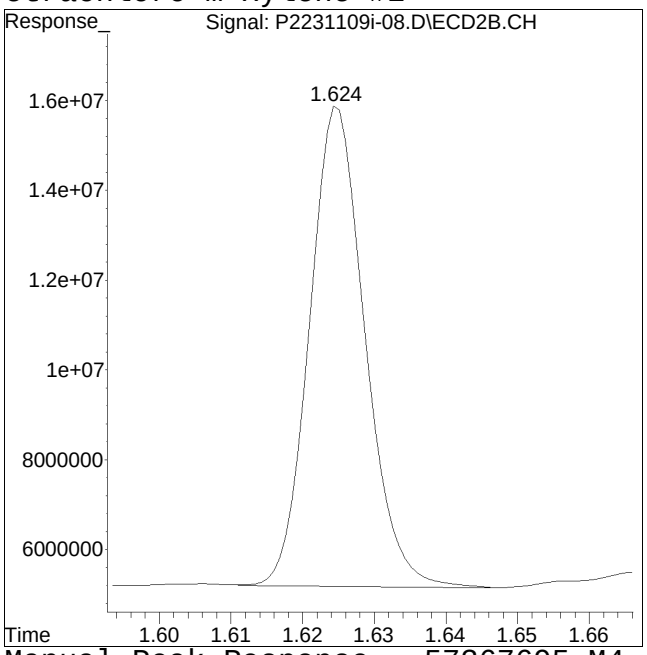
Original Peak Response = 41084303 Manual Peak Response = 39963296 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



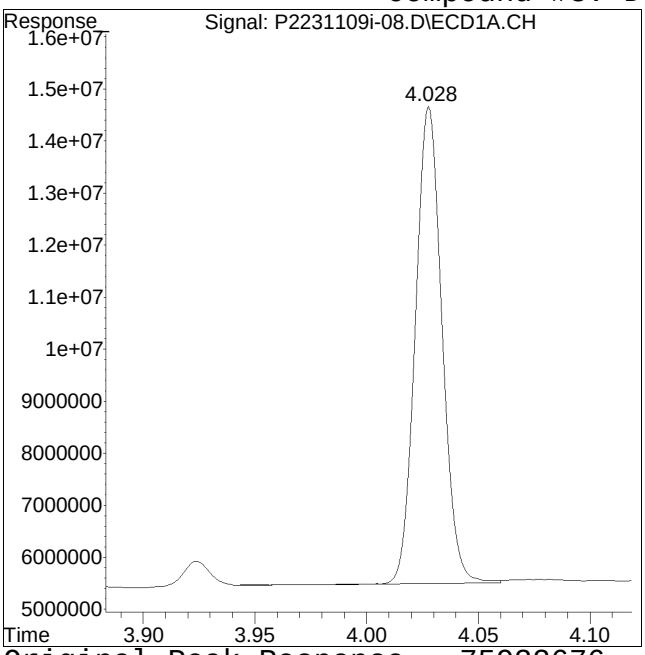


Original Peak Response = 57948558 Manual Peak Response = 57367695 M4
M4 = Poor automated baseline construction.

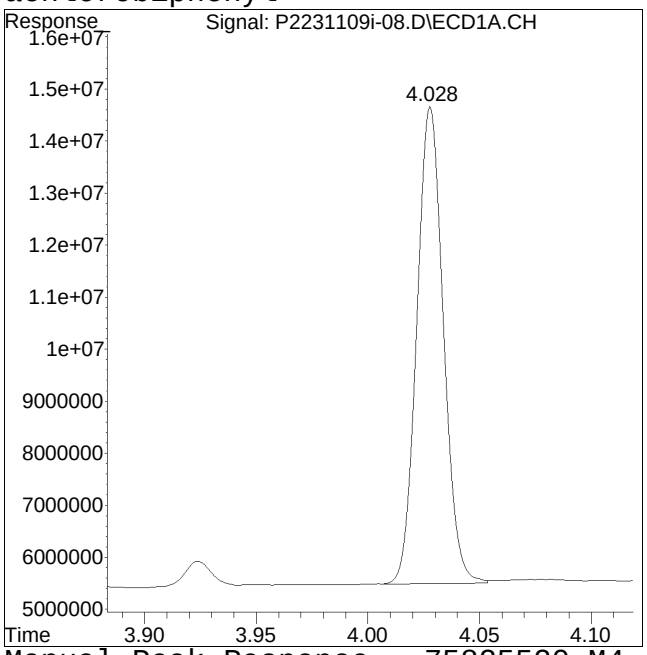
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 75932676



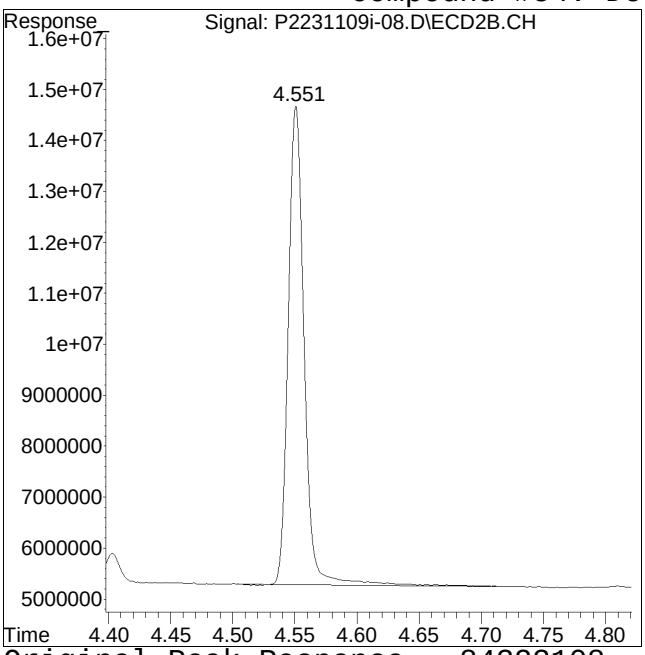
Manual Peak Response = 75825520 M4

M4 = Poor automated baseline construction.

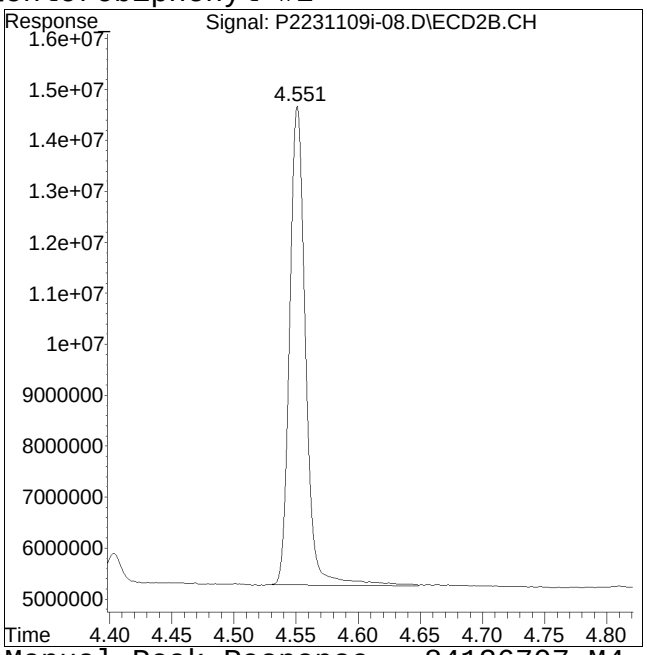
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 84323108



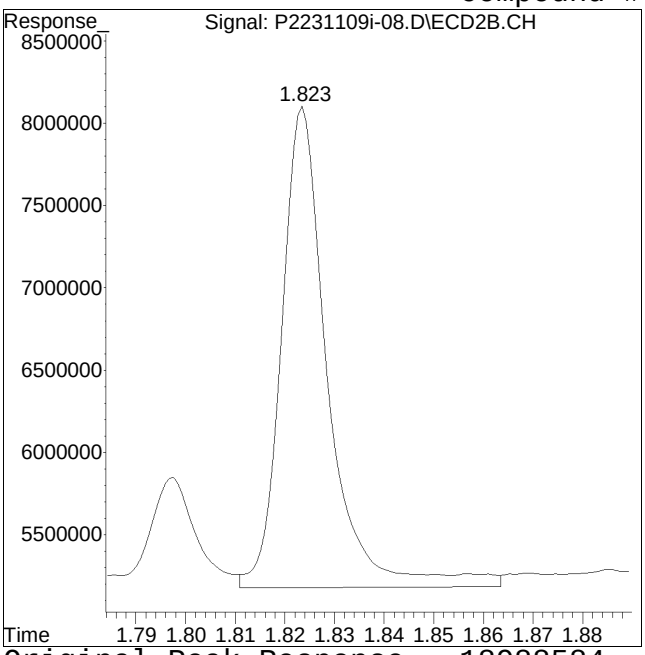
Manual Peak Response = 84136707 M4

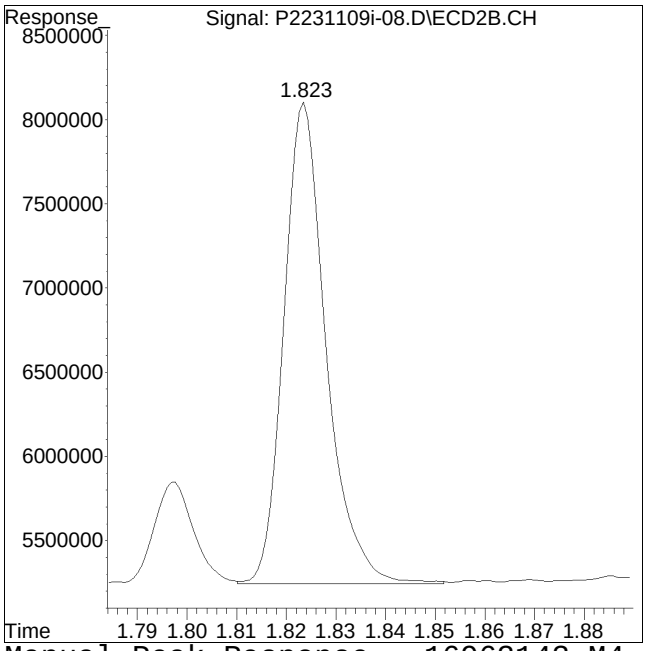
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #55: 1016-1 #2



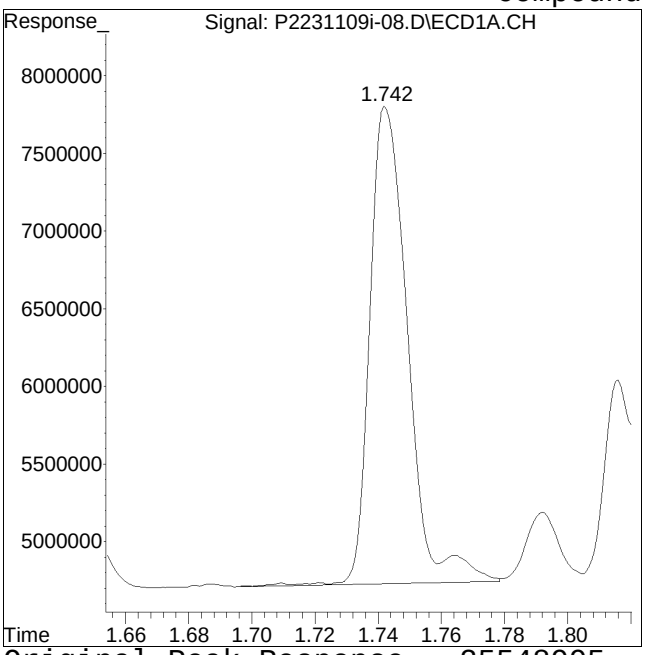


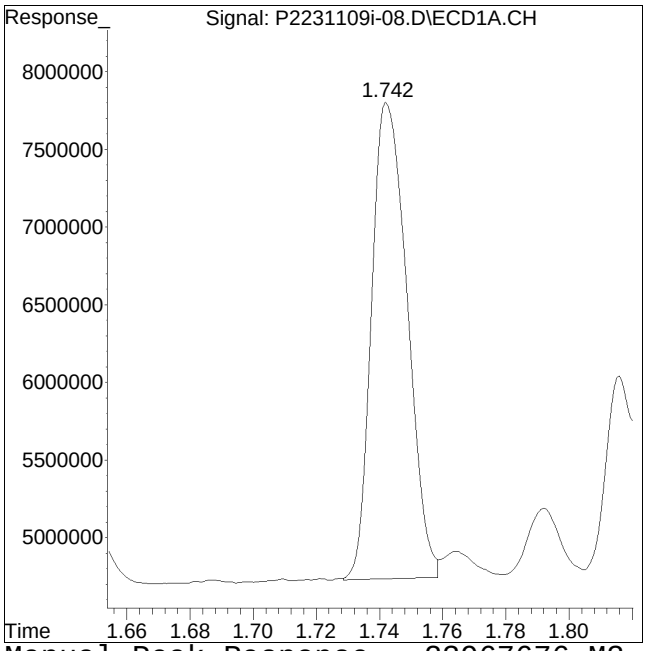
Original Peak Response = 18988584 Manual Peak Response = 16963143 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #5: 1016-2



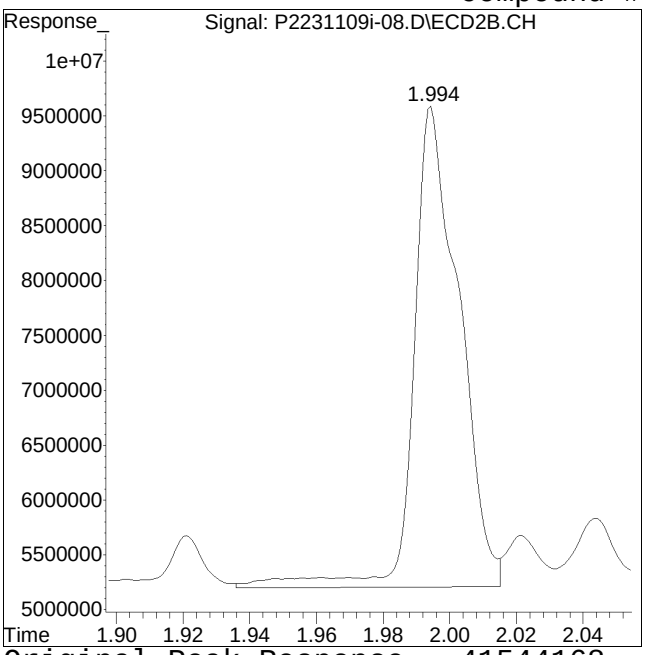


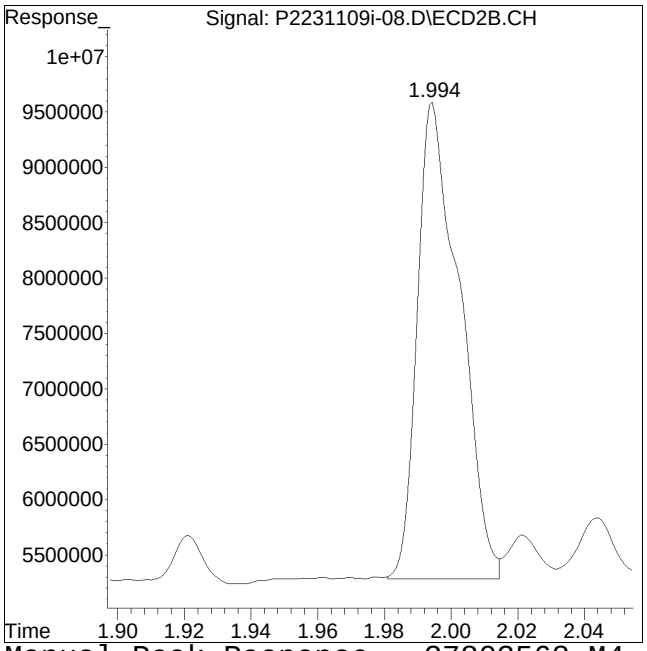
Original Peak Response = 25548995 Manual Peak Response = 23967676 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #56: 1016-2 #2



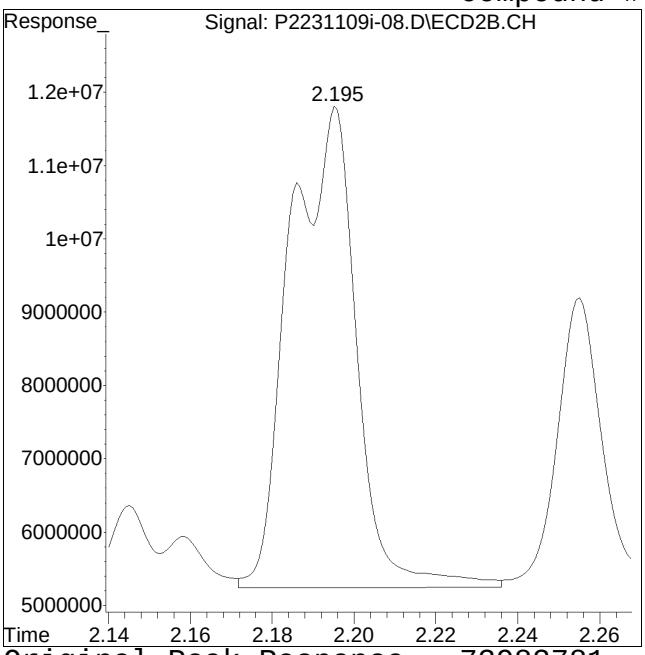


Original Peak Response = 41544168 Manual Peak Response = 37803568 M4
M4 = Poor automated baseline construction.

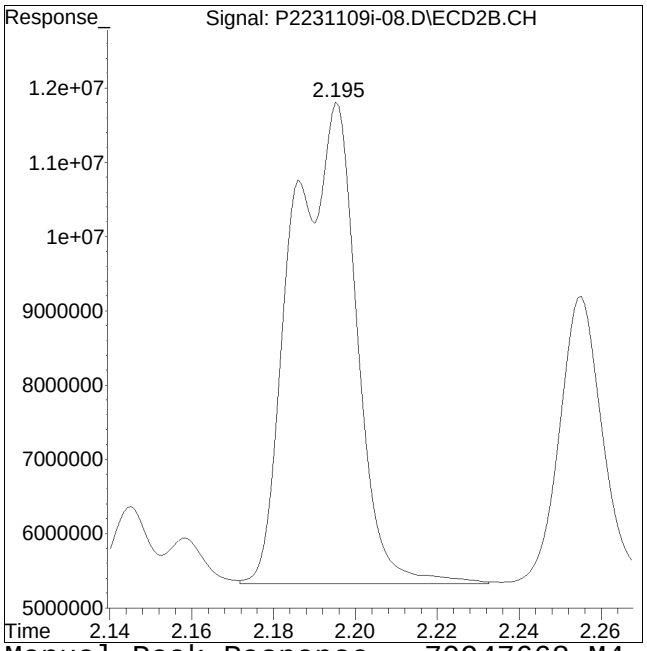
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #57: 1016-3 #2



Original Peak Response = 73983781



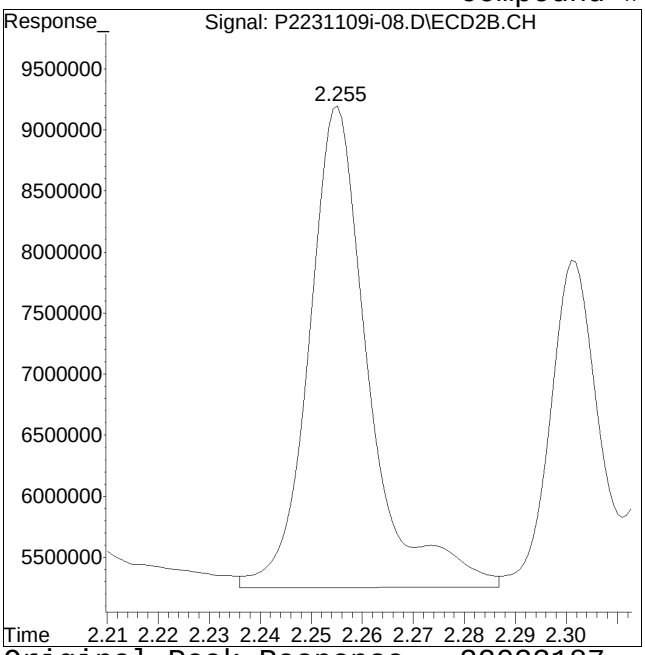
Manual Peak Response = 70947668 M4

M4 = Poor automated baseline construction.

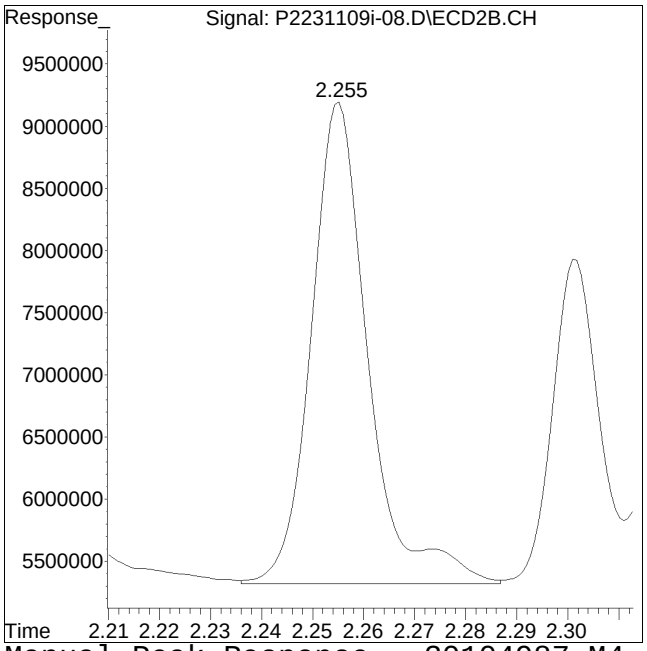
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #58: 1016-4 #2



Original Peak Response = 32033187



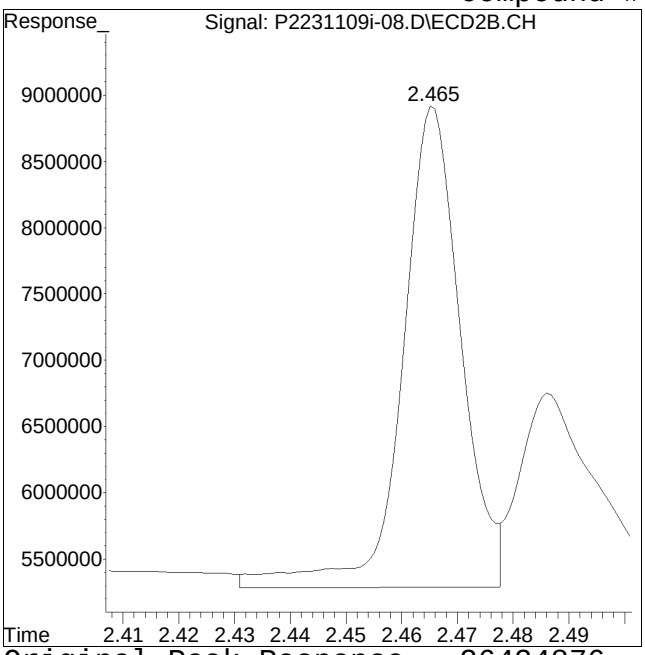
Manual Peak Response = 30104987 M4

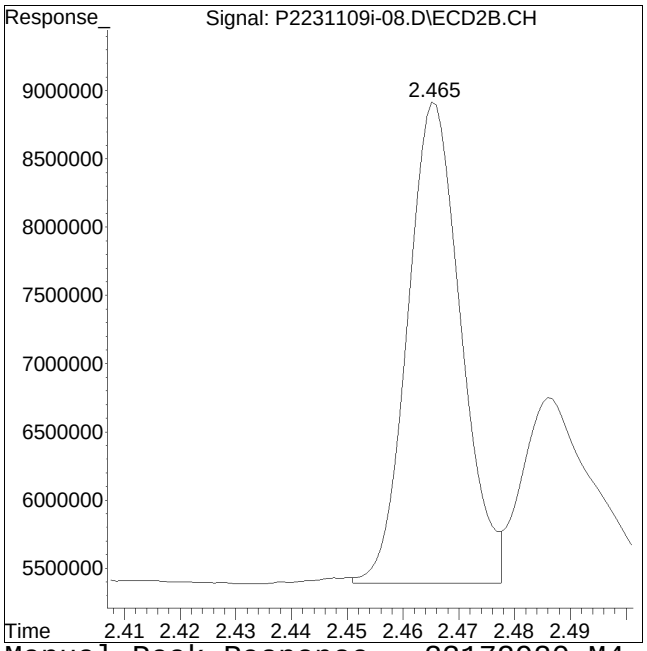
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #59: 1016-5 #2



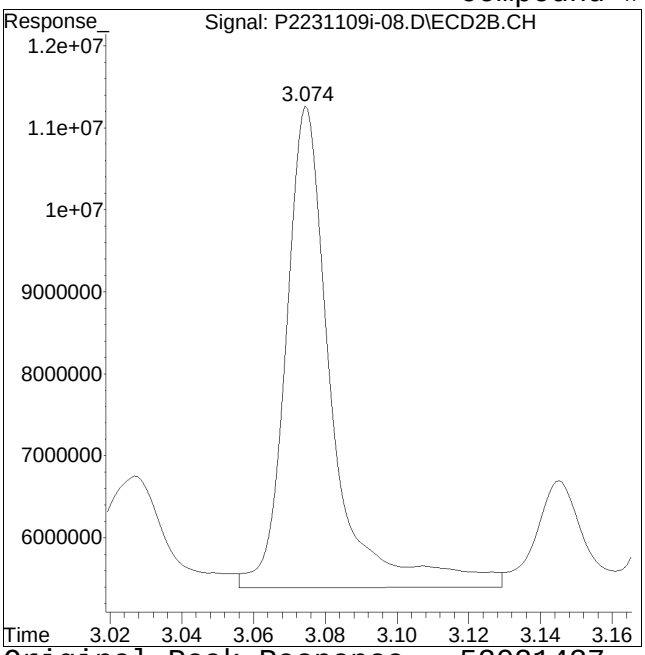


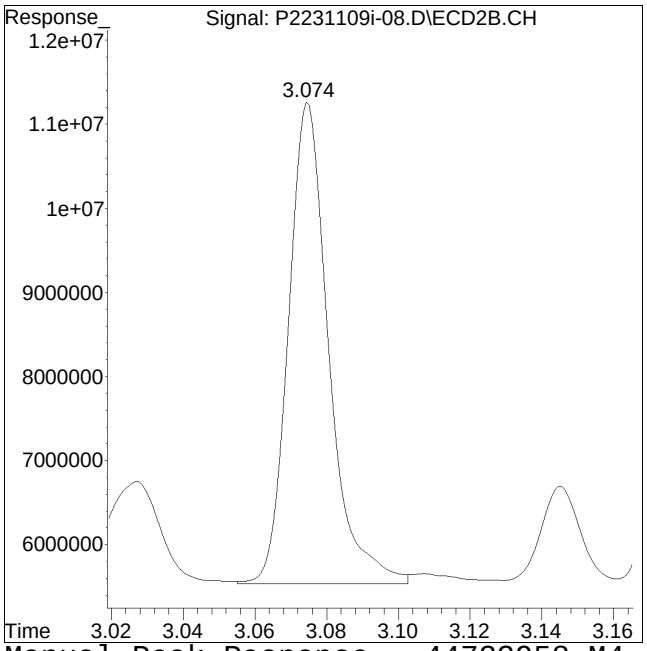
Original Peak Response = 26424876 Manual Peak Response = 23172920 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #60: 1260-1 #2



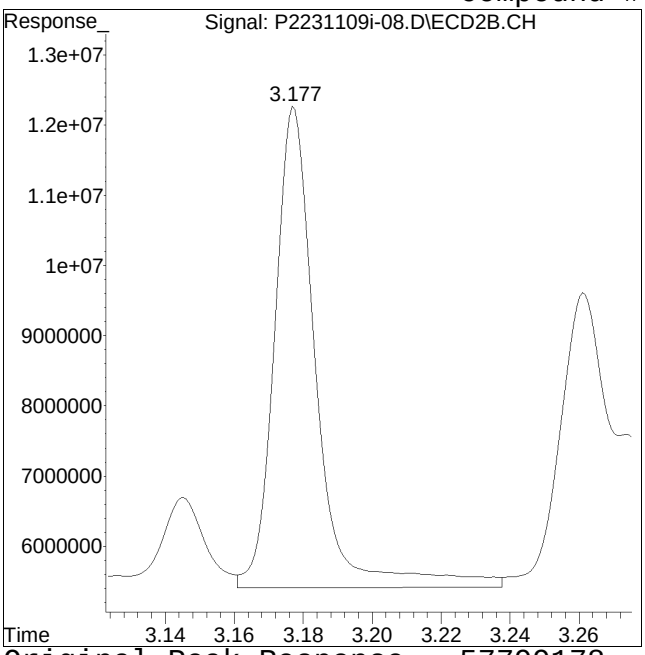


Original Peak Response = 52021437 Manual Peak Response = 44733958 M4
M4 = Poor automated baseline construction.

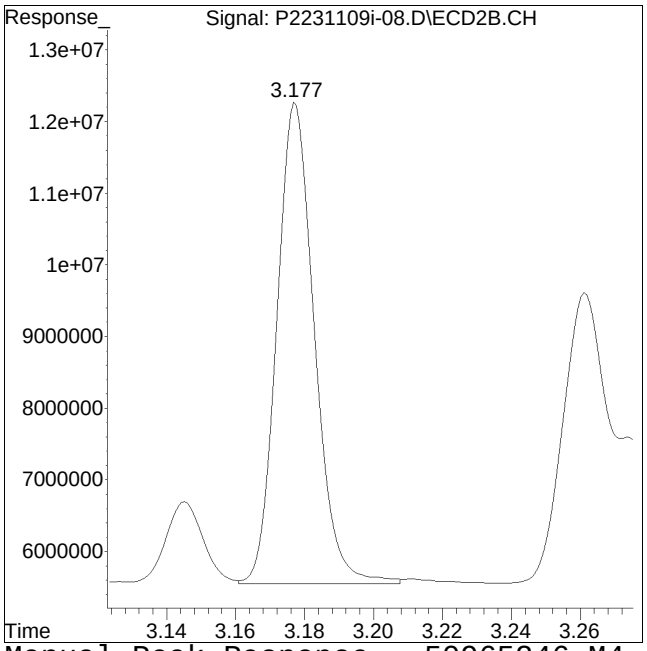
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #61: 1260-2 #2



Original Peak Response = 57799178



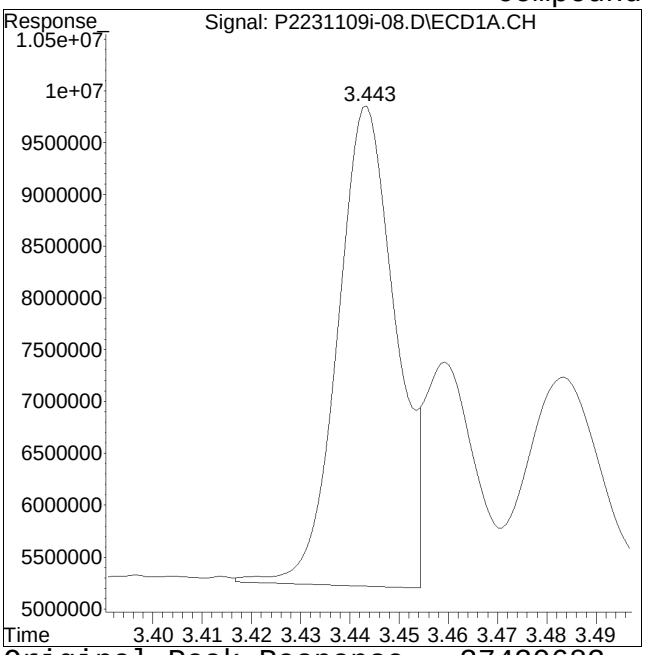
Manual Peak Response = 50965246 M4

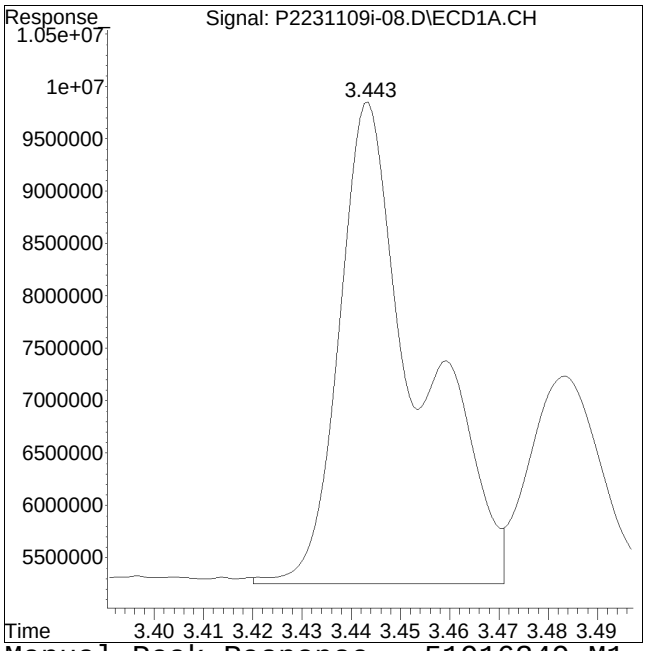
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #13: 1260-5



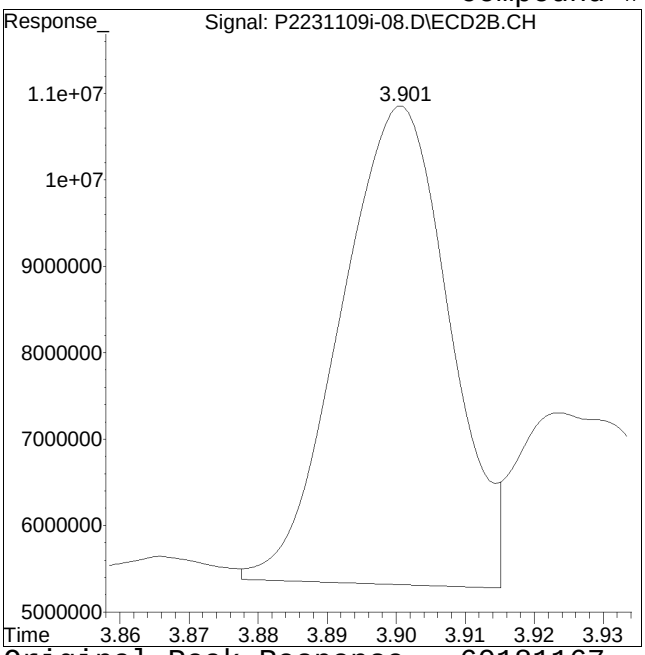


Original Peak Response = 37430683 Manual Peak Response = 51916349 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

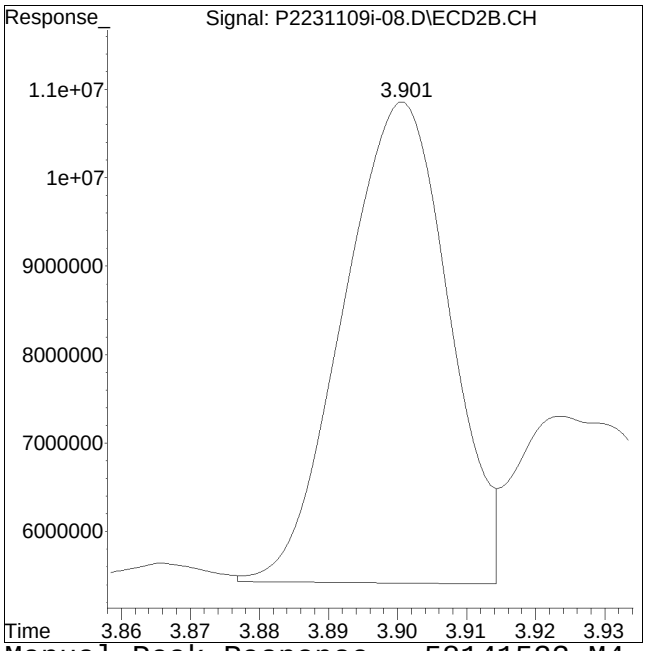
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-08.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:50 pm Instrument : Pest 2
Sample : il21660,42,, 11381 Quant Date : 11/9/2023 2:48 pm

Compound #64: 1260-5 #2



Original Peak Response = 60181167



Manual Peak Response = 58141533 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:58 pm
Operator : pest2:rmp/kb
Sample : il31660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 14:59:53 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:49:13 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.184	1.254	218.2E6	271.6E6	25.000M4	25.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.464	1.625	82170181	113.8E6	6.156M4	6.051M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		30.78%	30.25%
3) s	Decachlorobi	4.026	4.550	151.9E6	161.4E6	8.646M4	12.008
	Spiked Amount 20.000	Range 30 - 150		Recovery =		43.23%	60.04%
	Target Compounds						
4) l1	1016-1	1.601	1.824	23689447	32836411	87.600M4	88.404
5) l1	1016-2	1.741	1.994	47793849	73142563	94.264M4	84.551M4
6) l1	1016-3	1.929	2.194	100.4E6	143.9E6	93.753M4	96.417
7) l1	1016-4	1.984	2.255	42904718	62028117	92.938	98.072
8) l1	1016-5	2.153	2.465	44671166	45848037	82.238	88.617M4
	Sum 1016-1			259.5E6	357.7E6	450.793	456.061
	Average 1016-1					90.159	91.212
9) l2	1260-1	2.694	3.074	65291822	86851615	93.433	88.826M4
10) l2	1260-2	2.823	3.176	100.3E6	101.8E6	82.480M3	92.661M4
11) l2	1260-3	3.138	3.568	66955456	82789460	90.687	91.633M4
12) l2	1260-4	3.294	3.699	141.2E6	164.2E6	89.506M3	96.948M4
13) l2	1260-5	3.442	3.900	101.9E6	113.3E6	118.100	89.058M4
	Sum 1260-1			475.6E6	548.9E6	NoCal	NoCal D

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:58 pm
Operator : pest2:rmp/kb
Sample : il31660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 14:59:53 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:49:13 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-1					94.841	91.825
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D.	N.D.
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:58 pm
Operator : pest2:rmp/kb
Sample : il31660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 14:59:53 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:49:13 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

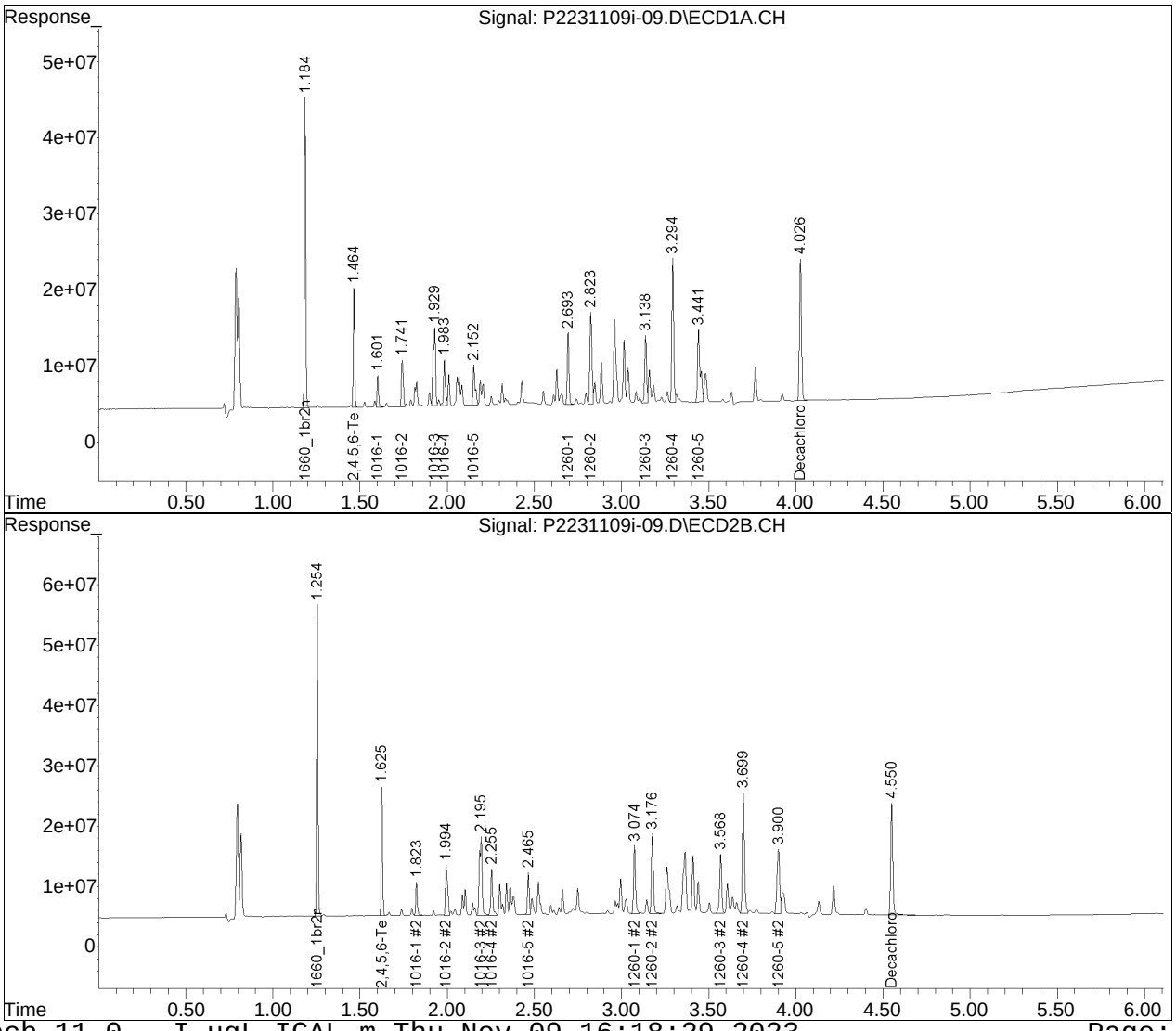
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 1:58 pm
Operator : pest2:rmp/kb
Sample : il31660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 14:59:53 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:49:13 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

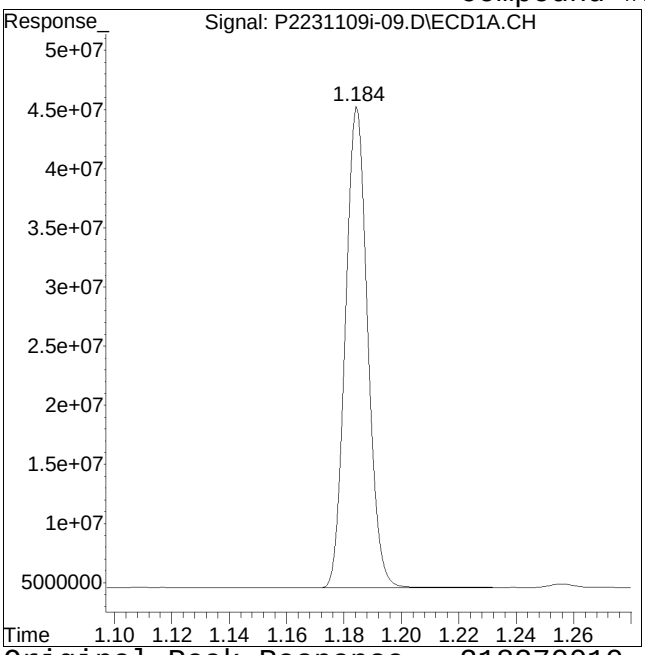
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



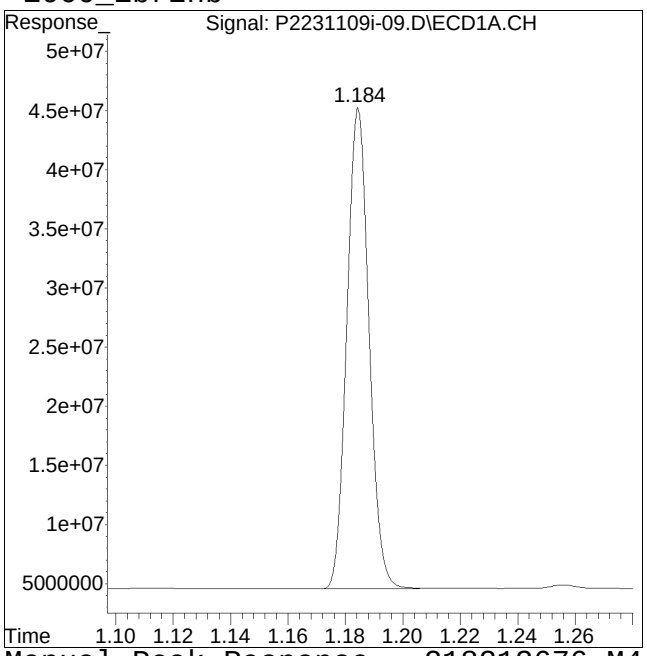
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #1: 1660_1br2nb



Original Peak Response = 218270010



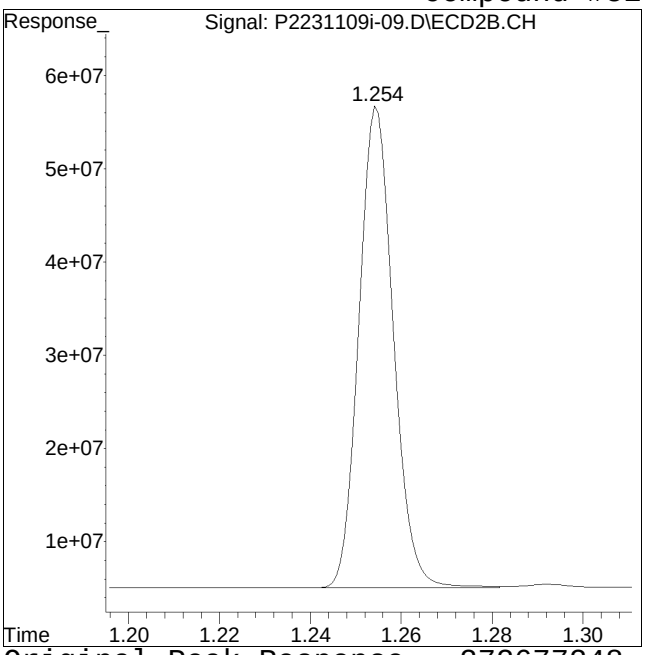
Manual Peak Response = 218213676 M4

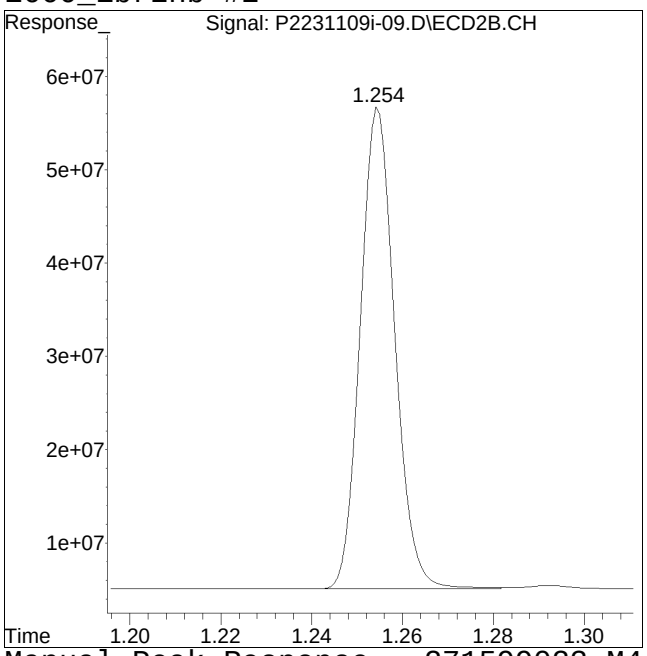
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #52: 1660_1br2nb #2



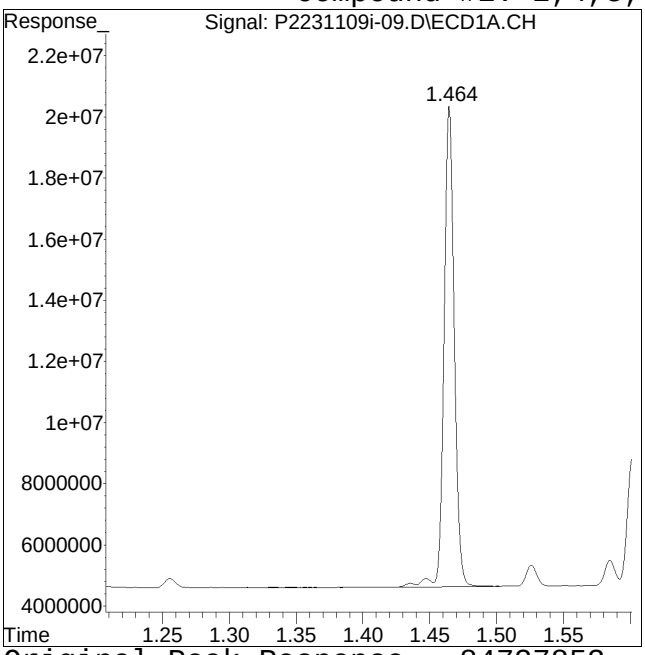


Original Peak Response = 272677248 Manual Peak Response = 271599023 M4
M4 = Poor automated baseline construction.

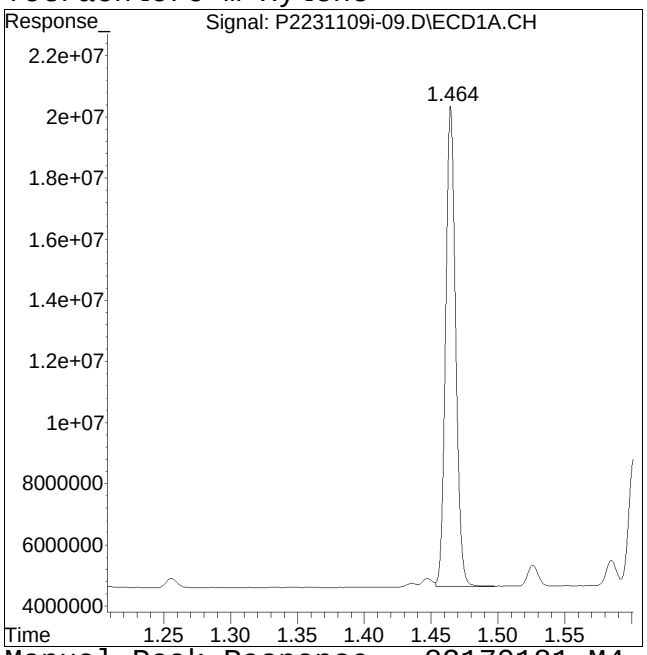
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 84737853



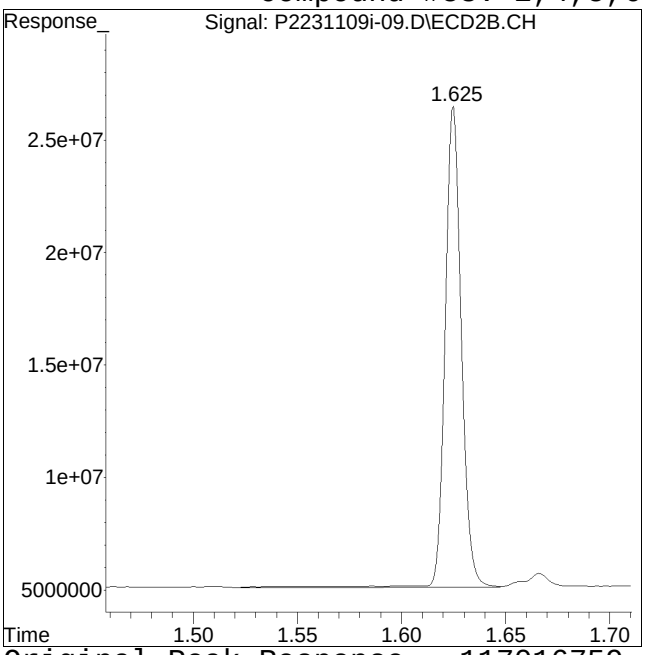
Manual Peak Response = 82170181 M4

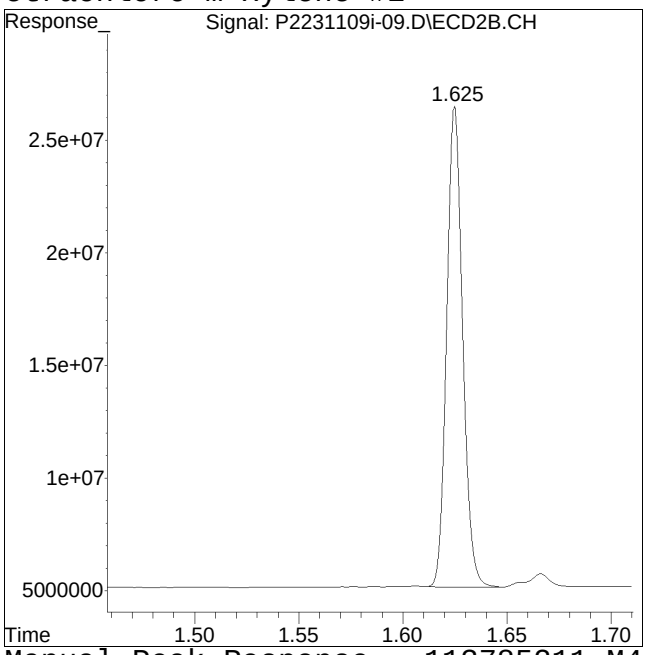
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



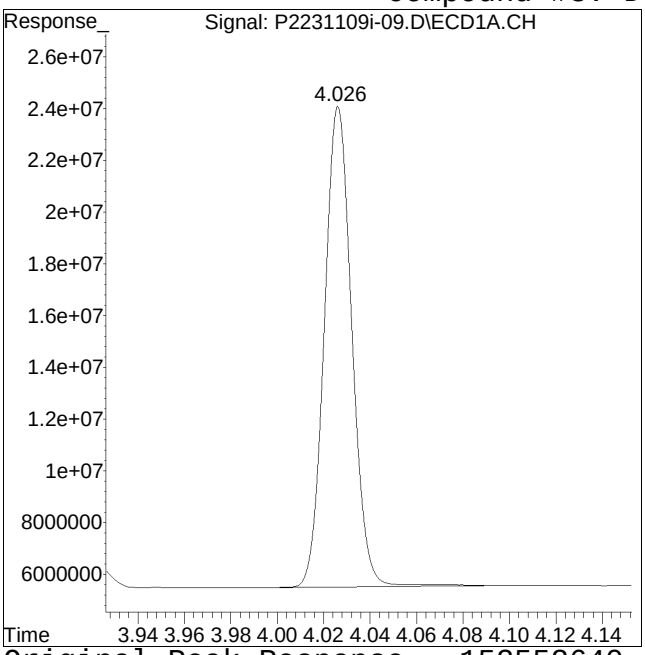


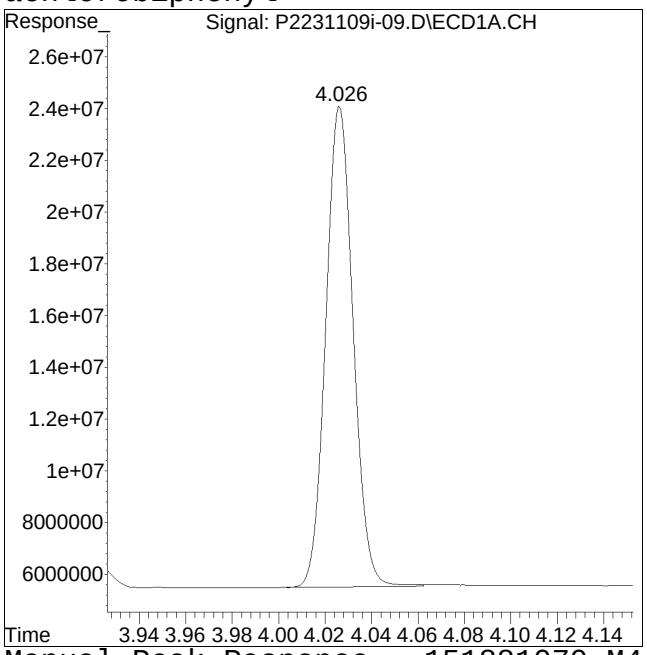
Original Peak Response = 117016759 Manual Peak Response = 113785211 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #3: Decachlorobiphenyl



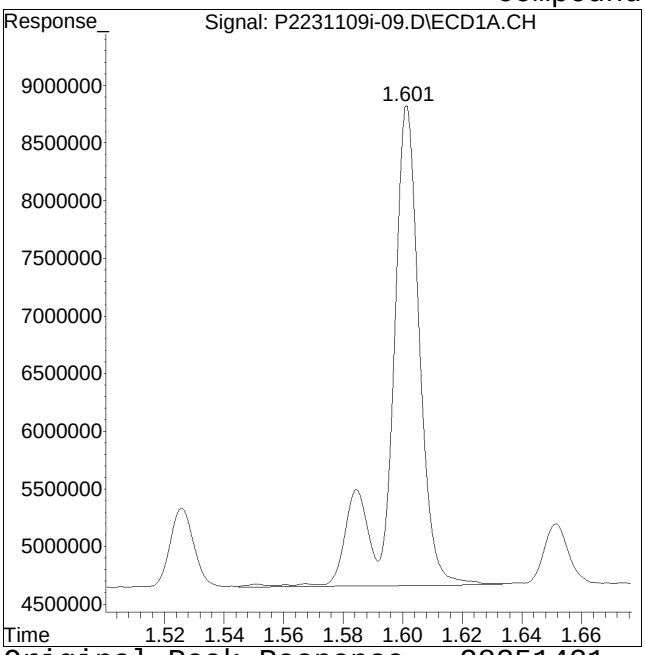


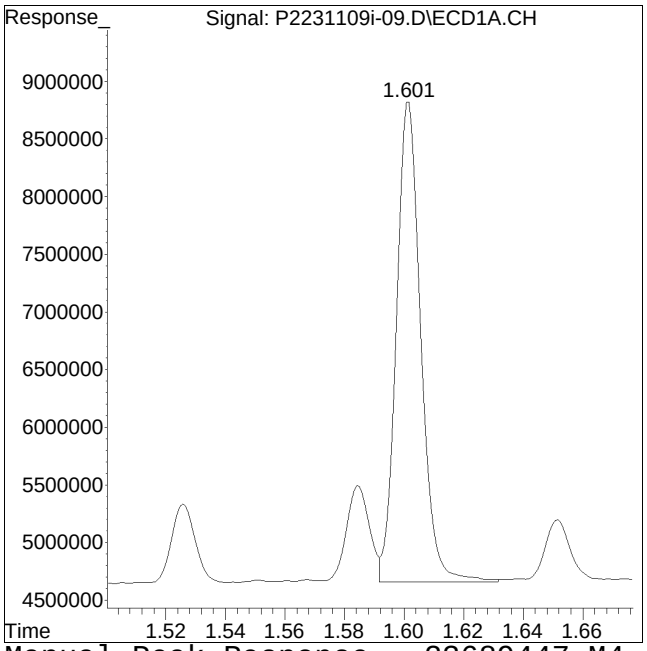
Original Peak Response = 152552640 Manual Peak Response = 151881070 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #4: 1016-1



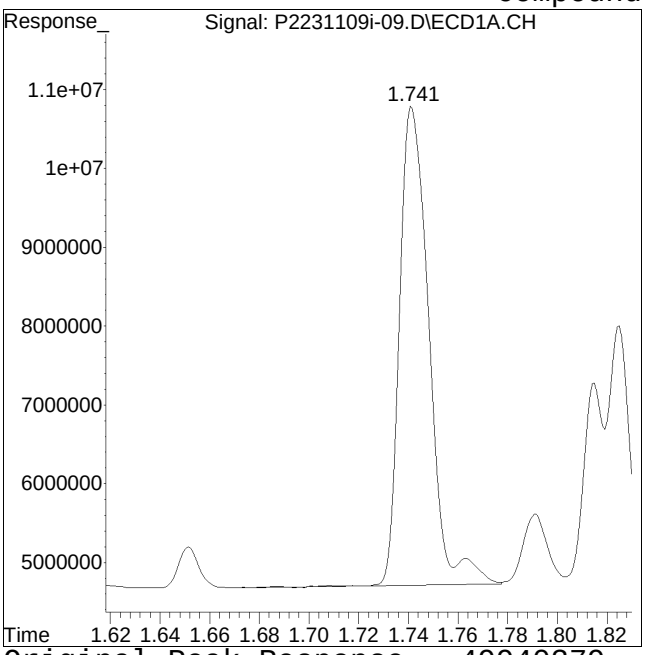


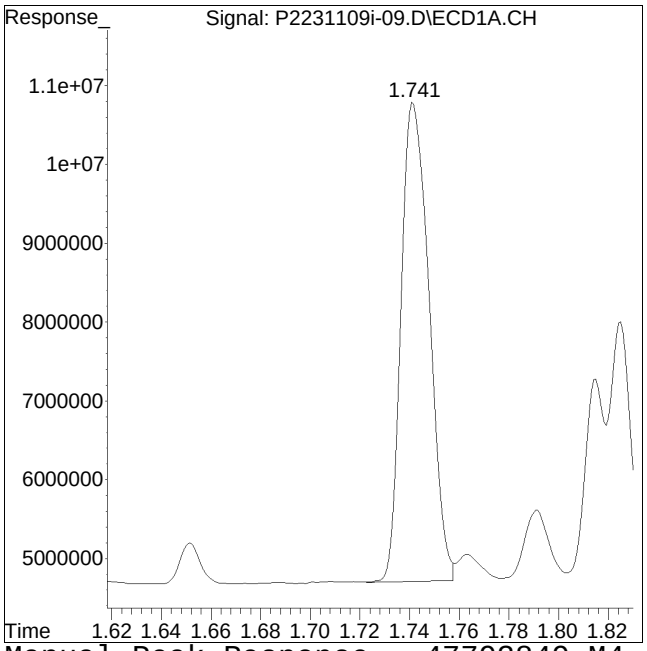
Original Peak Response = 28351421 Manual Peak Response = 23689447 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #5: 1016-2



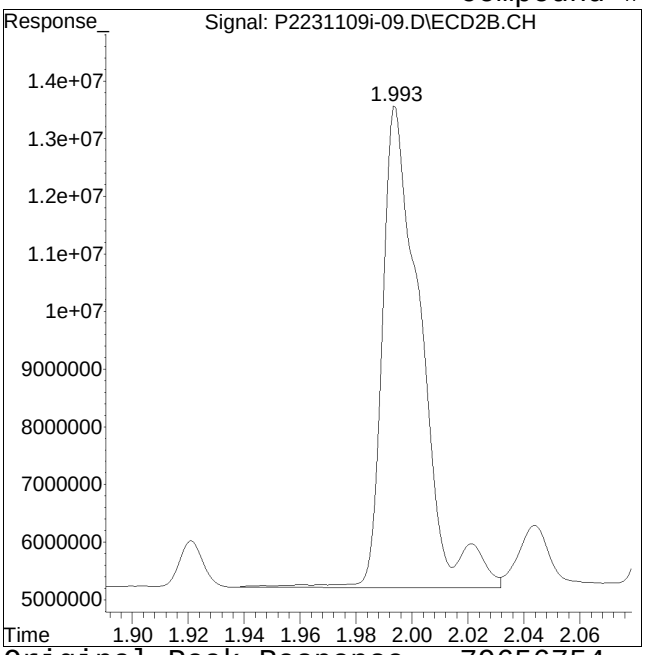


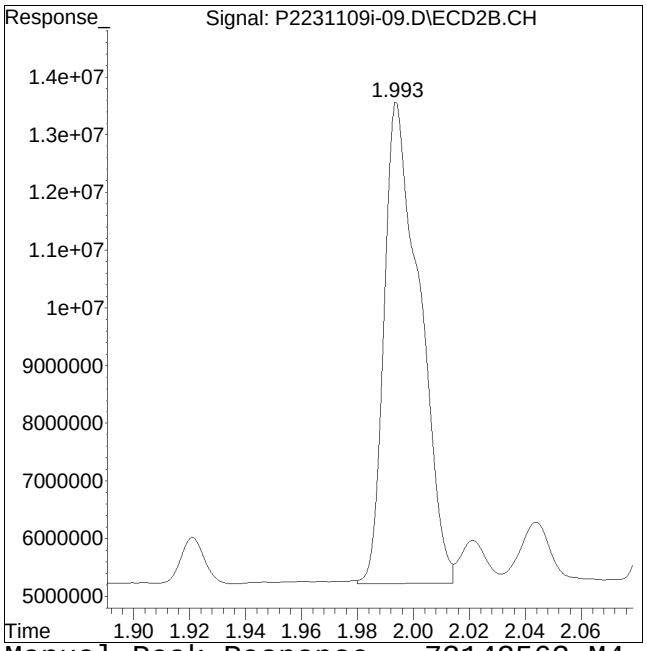
Original Peak Response = 49940379 Manual Peak Response = 47793849 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #56: 1016-2 #2



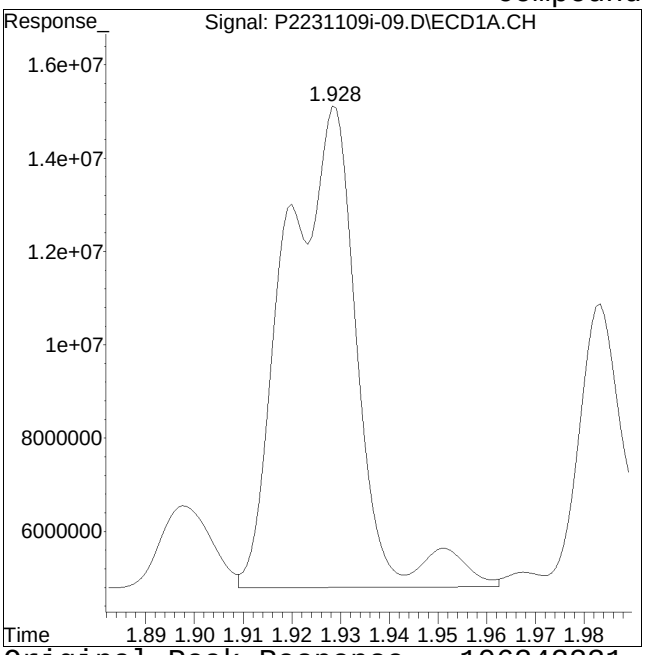


Original Peak Response = 79656754 Manual Peak Response = 73142563 M4
M4 = Poor automated baseline construction.

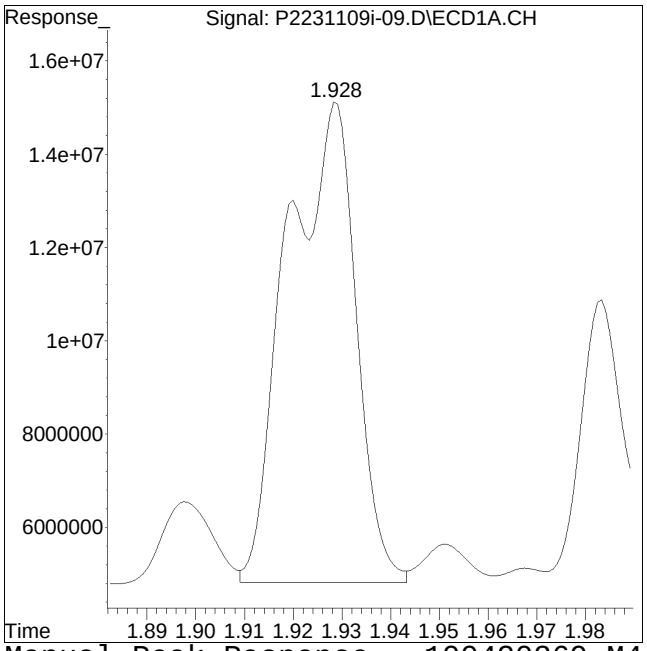
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #6: 1016-3



Original Peak Response = 106342331



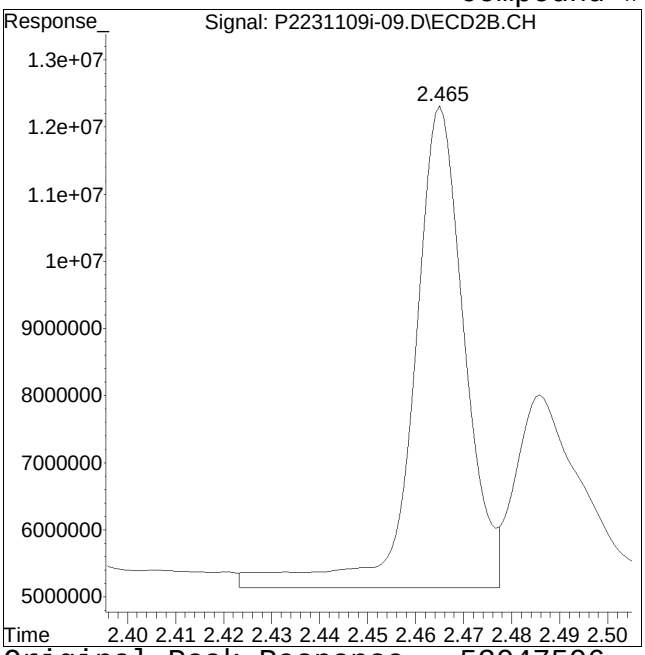
Manual Peak Response = 100420269 M4

M4 = Poor automated baseline construction.

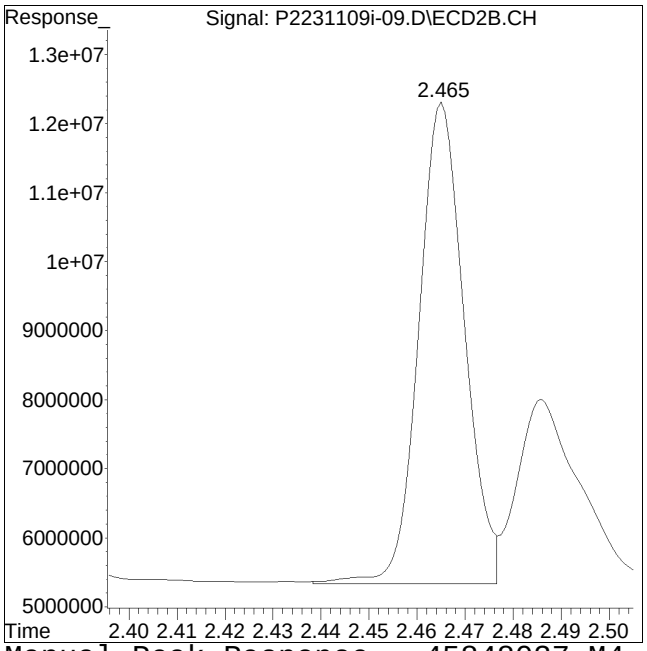
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #59: 1016-5 #2



Original Peak Response = 53047596



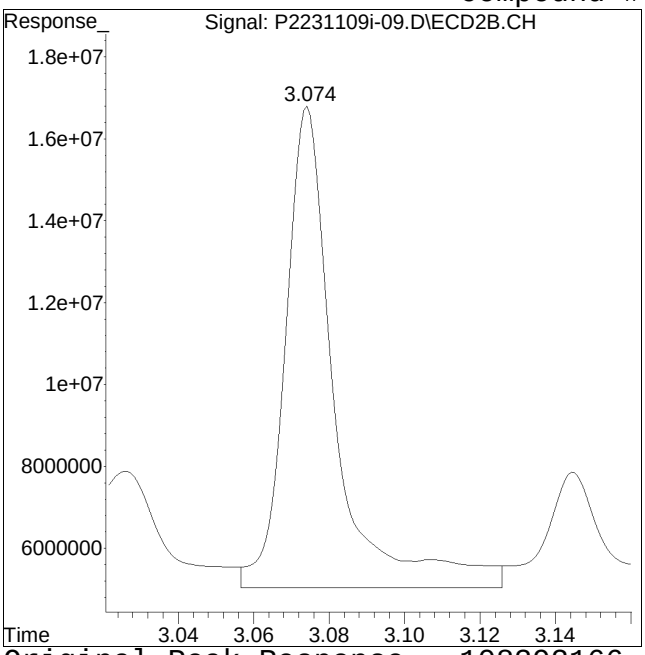
Manual Peak Response = 45848037 M4

M4 = Poor automated baseline construction.

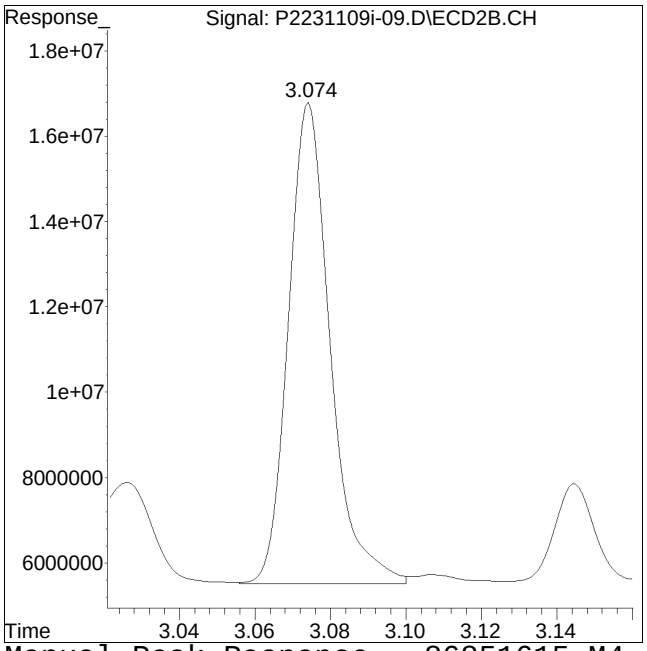
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #60: 1260-1 #2



Original Peak Response = 108392166

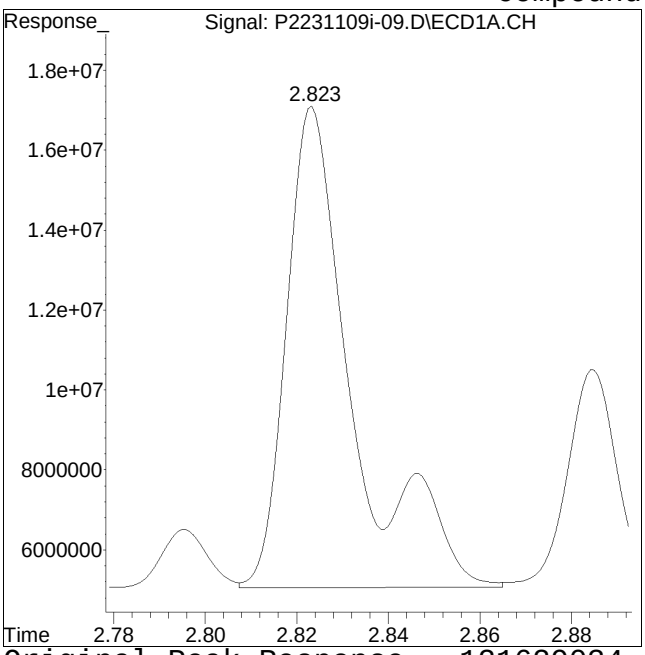


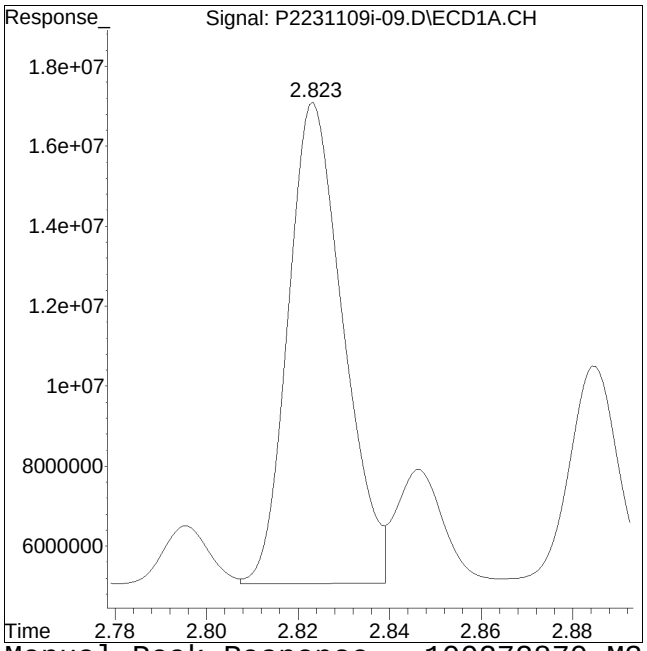
Manual Peak Response = 86851615 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #10: 1260-2



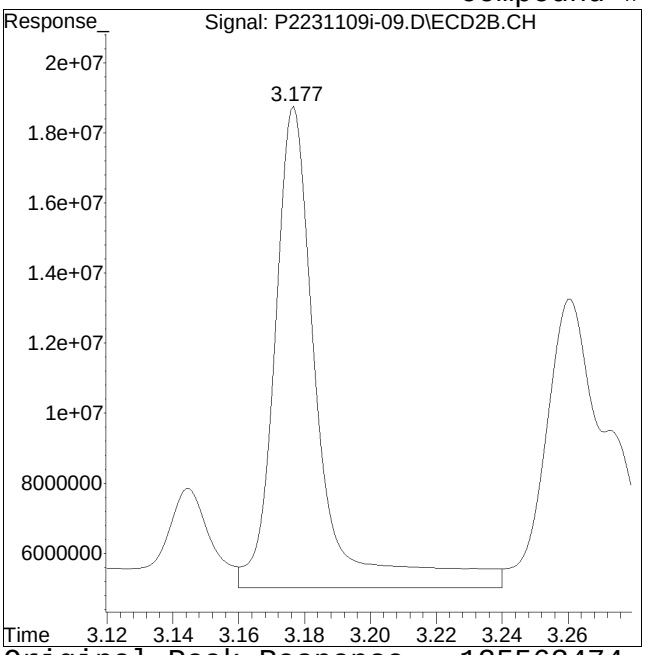


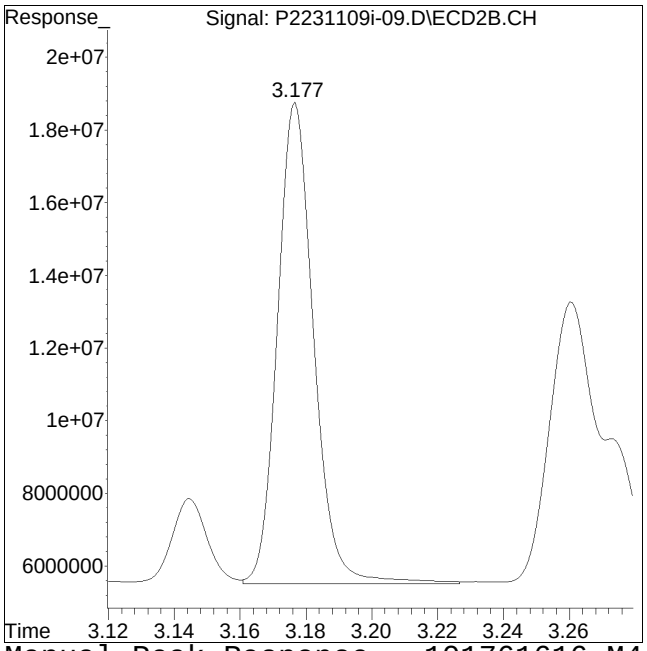
Original Peak Response = 121629034 Manual Peak Response = 100272870 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #61: 1260-2 #2



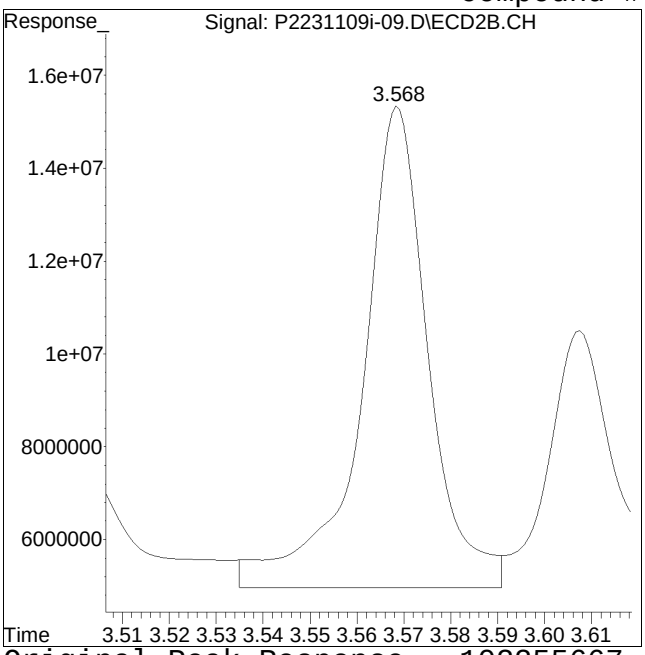


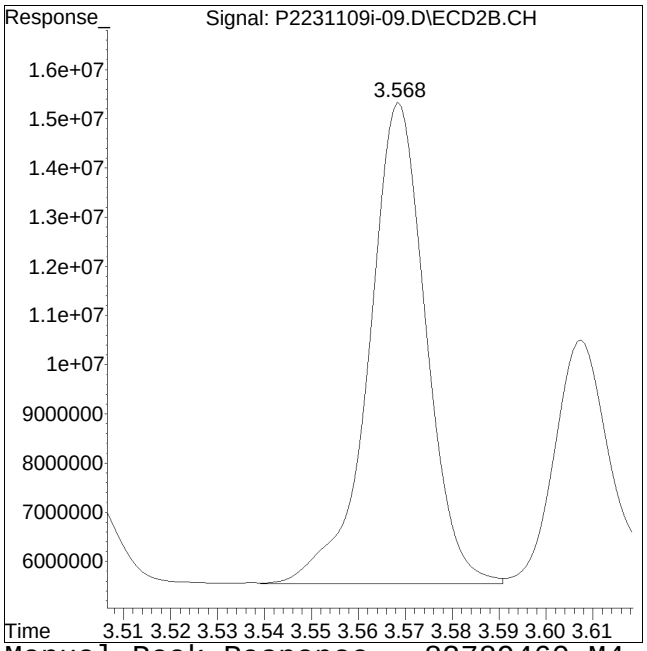
Original Peak Response = 125563474 Manual Peak Response = 101761616 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #62: 1260-3 #2



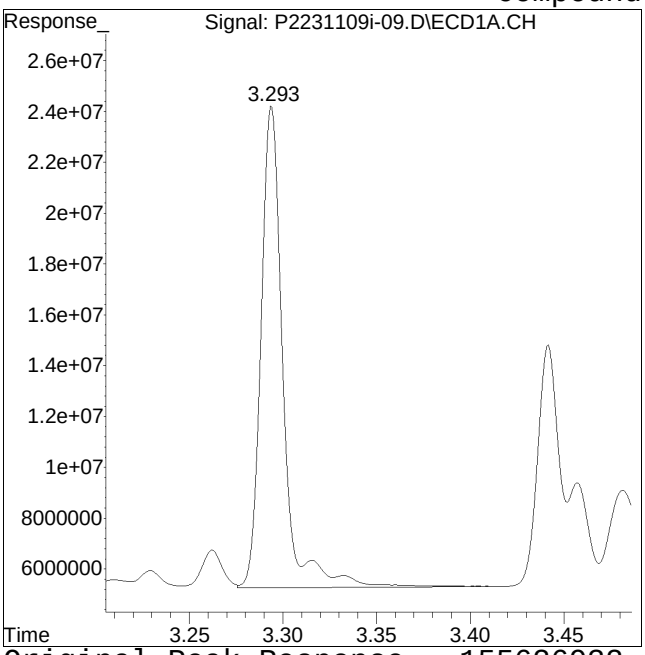


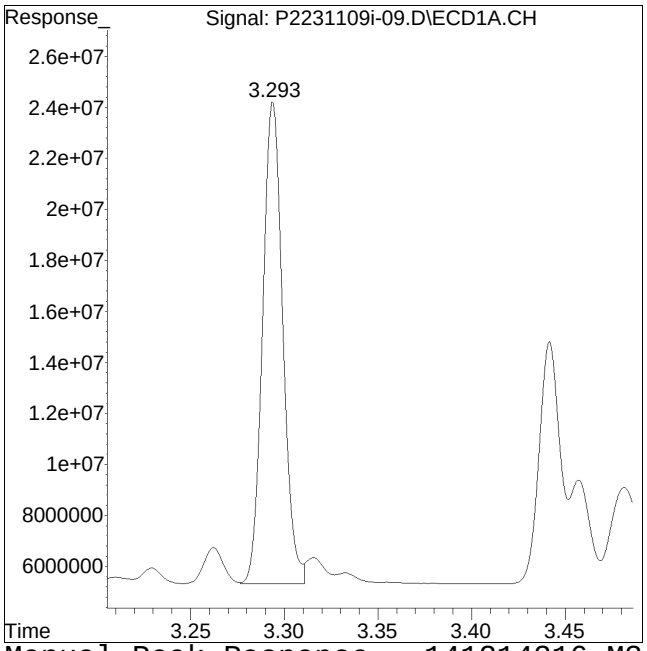
Original Peak Response = 102255667 Manual Peak Response = 82789460 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #12: 1260-4



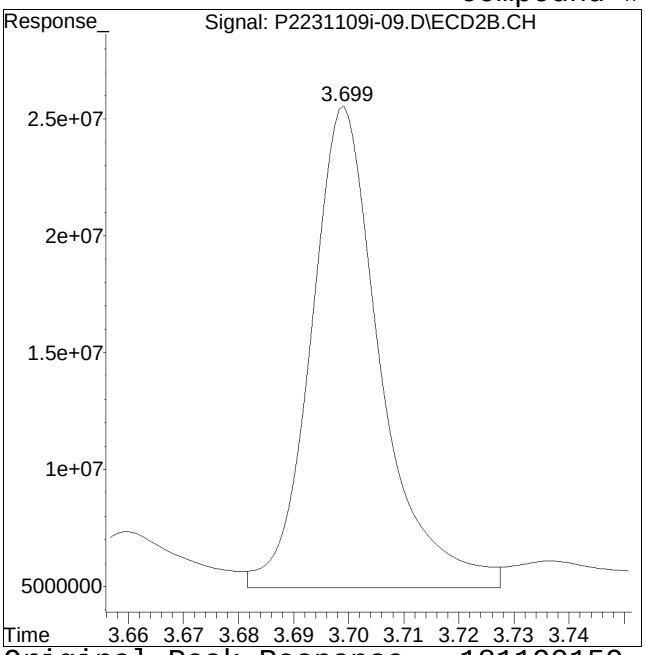


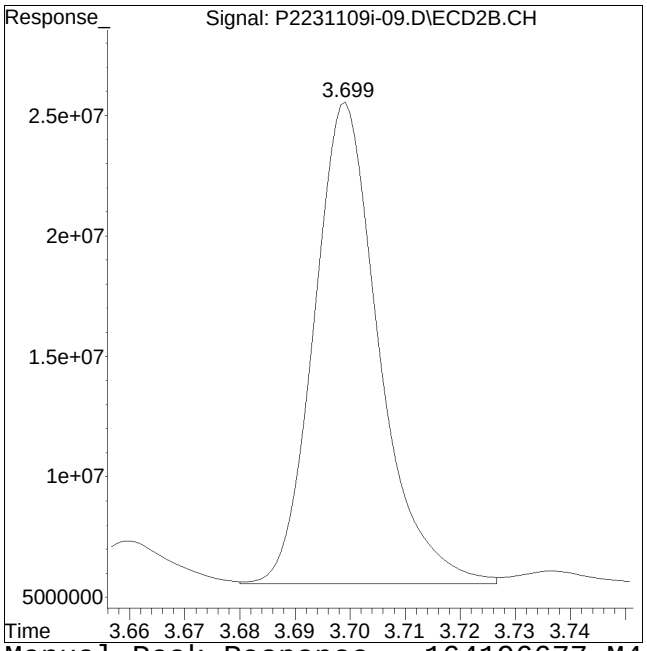
Original Peak Response = 155626932 Manual Peak Response = 141214216 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #63: 1260-4 #2



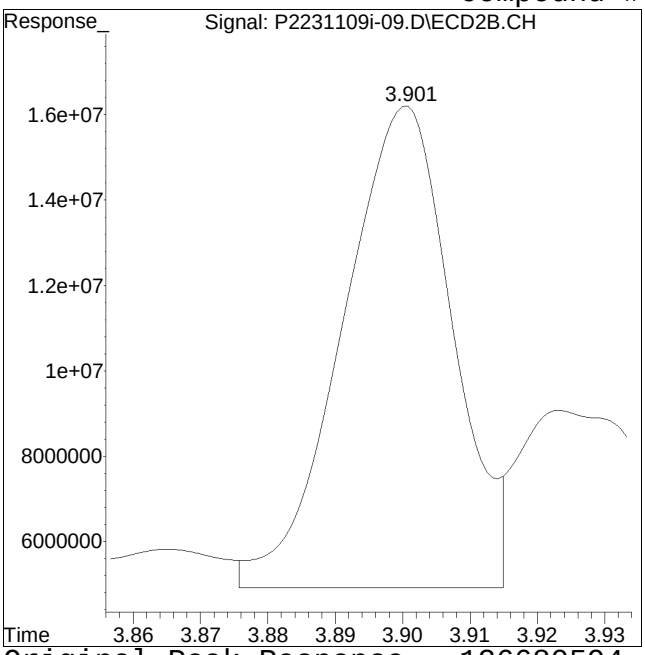


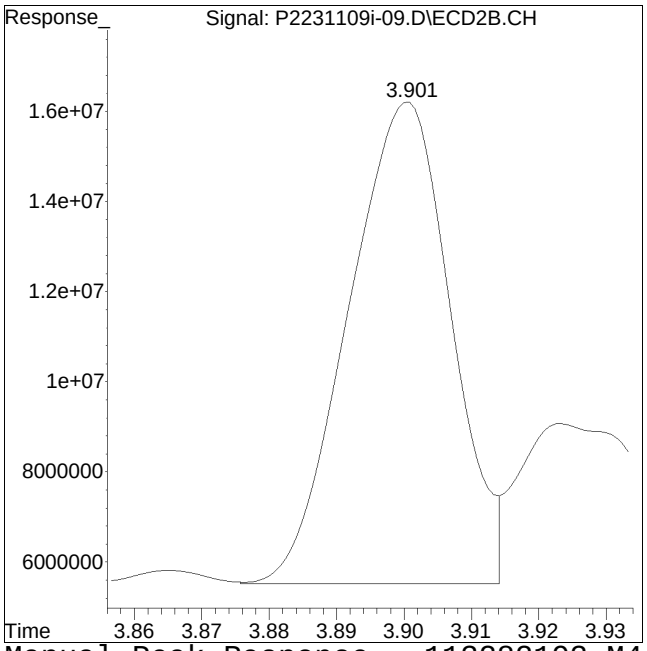
Original Peak Response = 181199159 Manual Peak Response = 164196677 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-09.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 1:58 pm Instrument : Pest 2
Sample : il31660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #64: 1260-5 #2





Original Peak Response = 126680594 Manual Peak Response = 113282193 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:07 pm
Operator : pest2:rmp/kb
Sample : il41660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 14:56:08 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:49:32 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.255	209.8E6	269.6E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.625	205.4E6	273.2E6	16.041	14.753M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		80.20%	73.77%
3) s	Decachlorobi	4.027	4.550	369.6E6	364.5E6	23.796	27.777M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		118.98%	138.89%
	Target Compounds						
4) l1	1016-1	1.602	1.823	54984959	73753502	208.966	206.190M4
5) l1	1016-2	1.742	1.994	109.4E6	165.2E6	225.342	196.471M4
6) l1	1016-3	1.929	2.195	246.4E6	324.6E6	239.686	221.367M4
7) l1	1016-4	1.984	2.255	105.3E6	134.4E6	241.461	215.388M4
8) l1	1016-5	2.153	2.465	105.6E6	105.8E6	211.530M4	204.945M4
	Sum 1016-1			621.6E6	803.9E6	1126.985	1044.362
	Average 1016-1					225.397	208.872
9) l2	1260-1	2.694	3.074	158.6E6	198.6E6	239.990	199.442M4
10) l2	1260-2	2.823	3.177	239.8E6	233.1E6	205.109M4	206.679M4
11) l2	1260-3	3.138	3.568	157.0E6	191.3E6	226.514M4	206.768M4
12) l2	1260-4	3.294	3.699	339.7E6	386.4E6	224.739M4	226.140M4
13) l2	1260-5	3.442	3.900	247.1E6	263.0E6	285.077M1	208.675M4
	Sum 1260-1			1142.2E6	1272.5E6	NoCal	NoCal D

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:07 pm
Operator : pest2:rmp/kb
Sample : il41660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 14:56:08 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:49:32 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-1					236.286	209.541
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D.	N.D.
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:07 pm
Operator : pest2:rmp/kb
Sample : il41660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 14:56:08 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:49:32 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

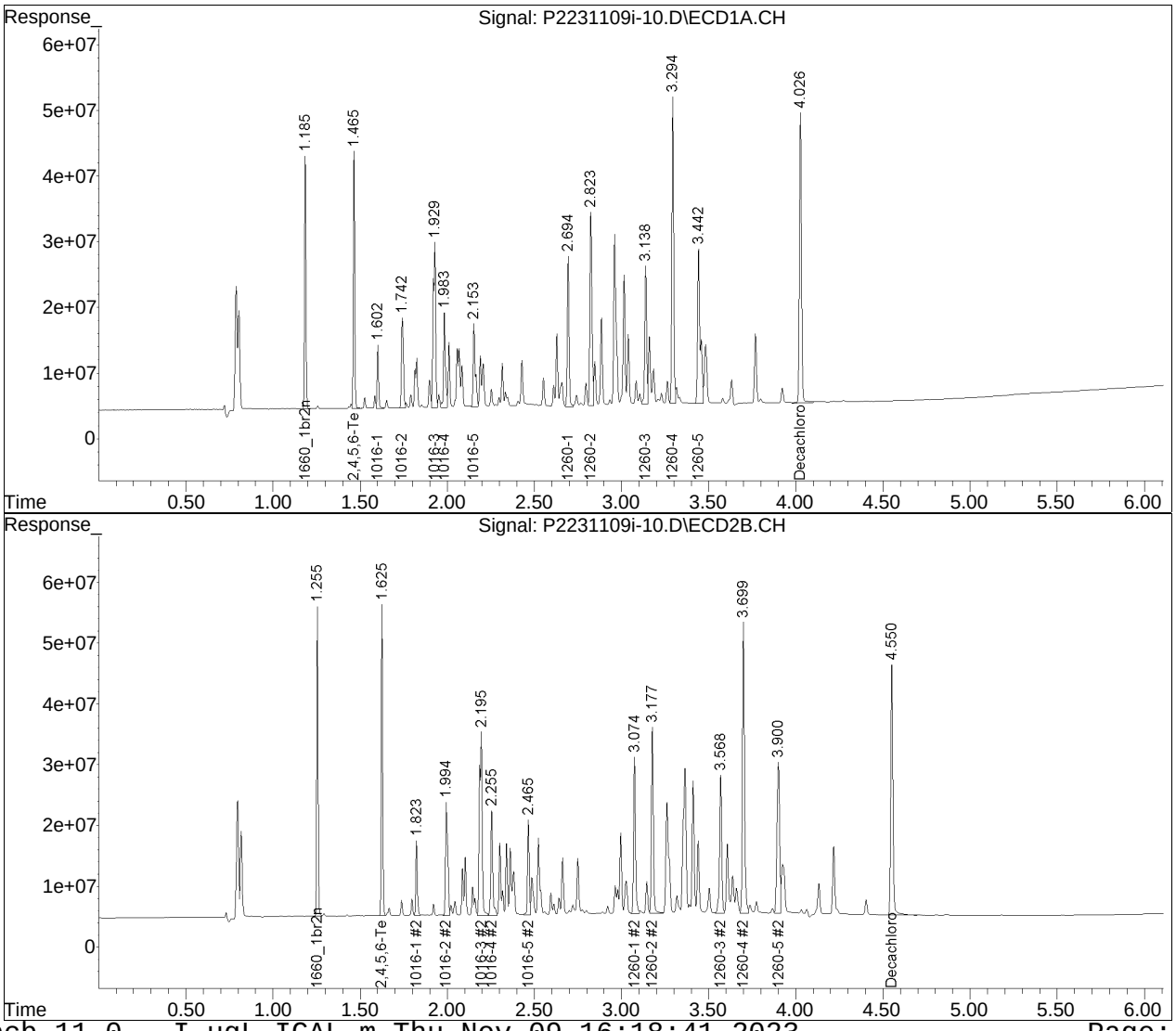
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:07 pm
Operator : pest2:rmp/kb
Sample : il41660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 14:56:08 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:49:32 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

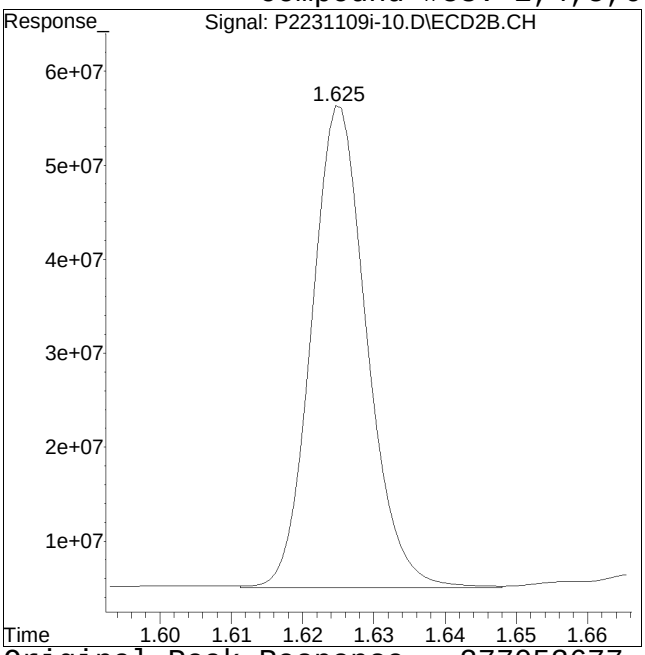
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

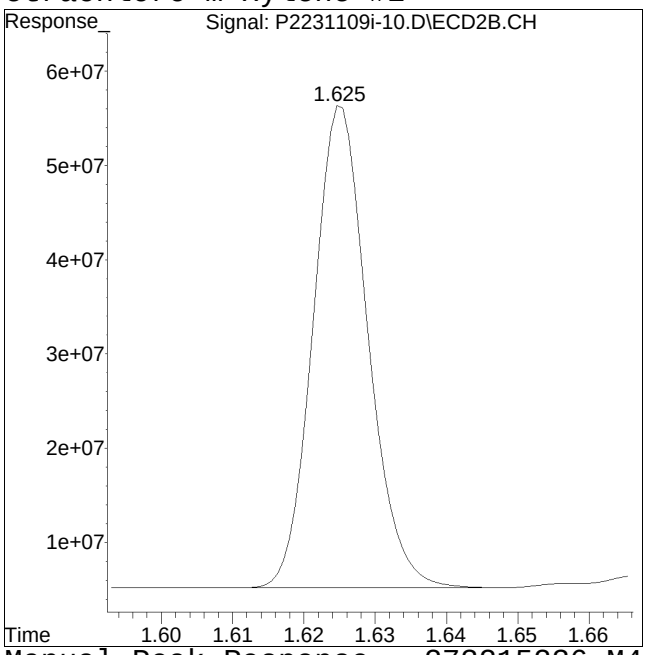


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



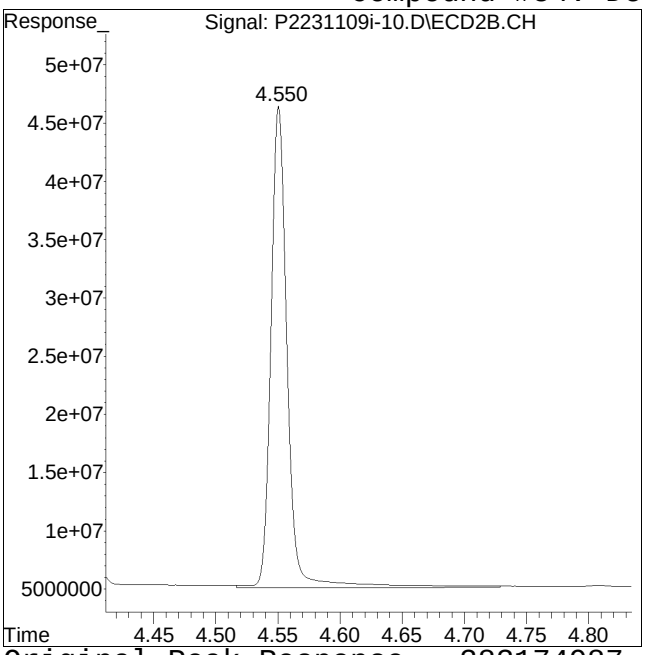


Original Peak Response = 277053677 Manual Peak Response = 273215236 M4
M4 = Poor automated baseline construction.

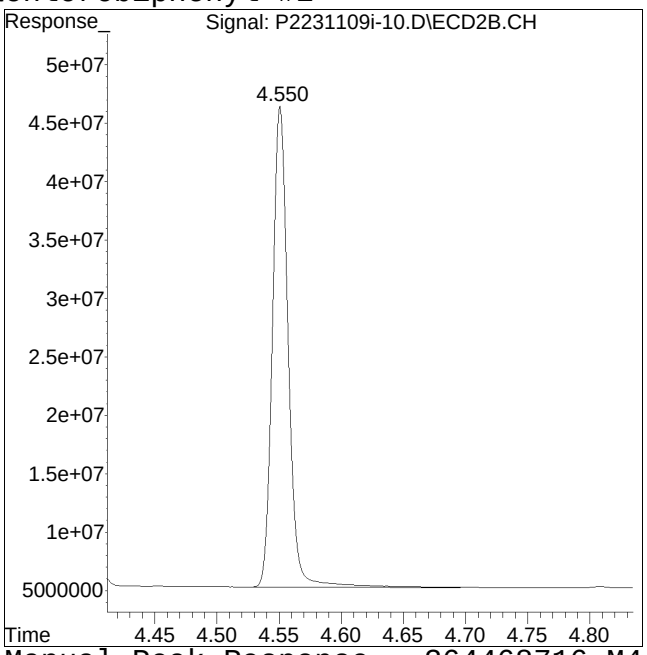
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 383174987

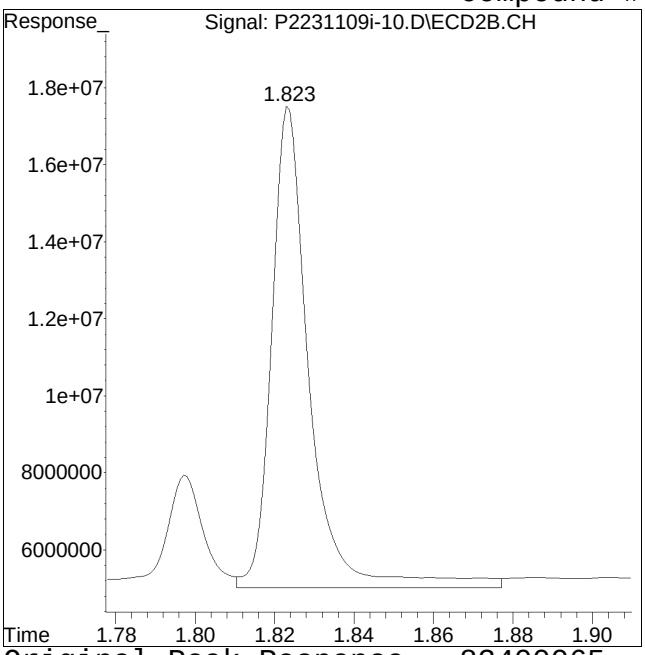


Manual Peak Response = 364468716 M4
M4 = Poor automated baseline construction.

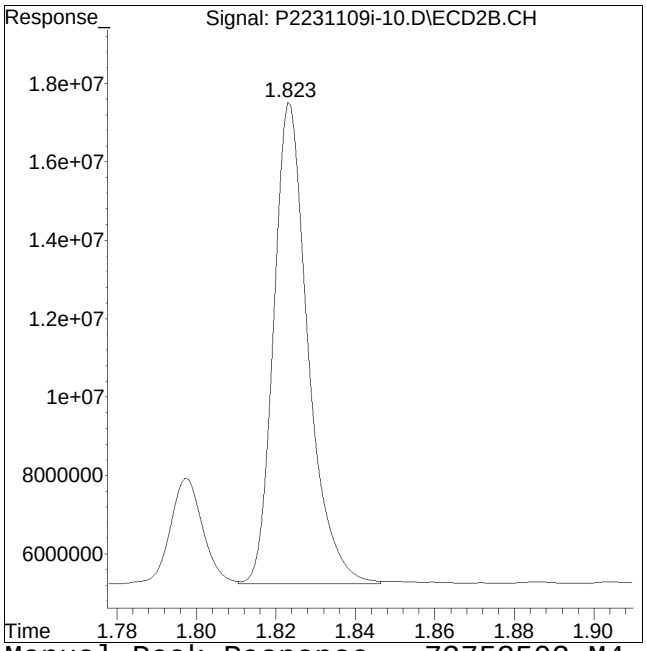
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #55: 1016-1 #2



Original Peak Response = 83400065



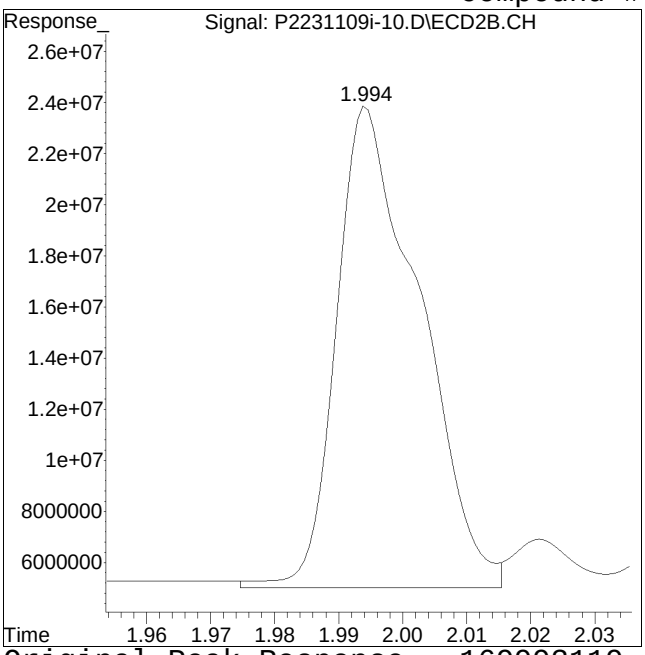
Manual Peak Response = 73753502 M4

M4 = Poor automated baseline construction.

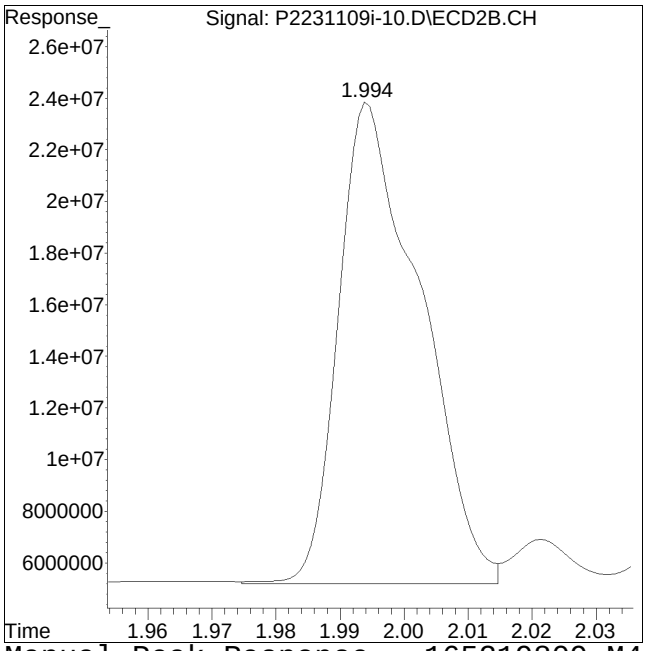
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #56: 1016-2 #2



Original Peak Response = 169993119



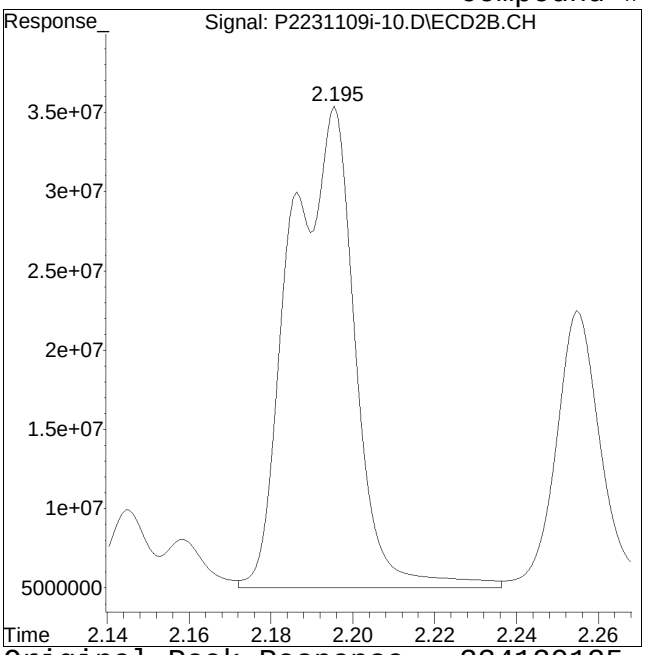
Manual Peak Response = 165219809 M4

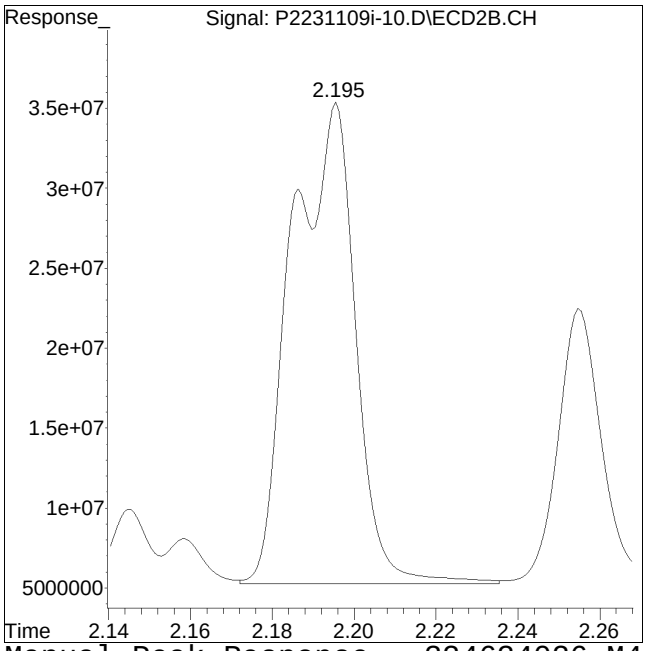
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #57: 1016-3 #2



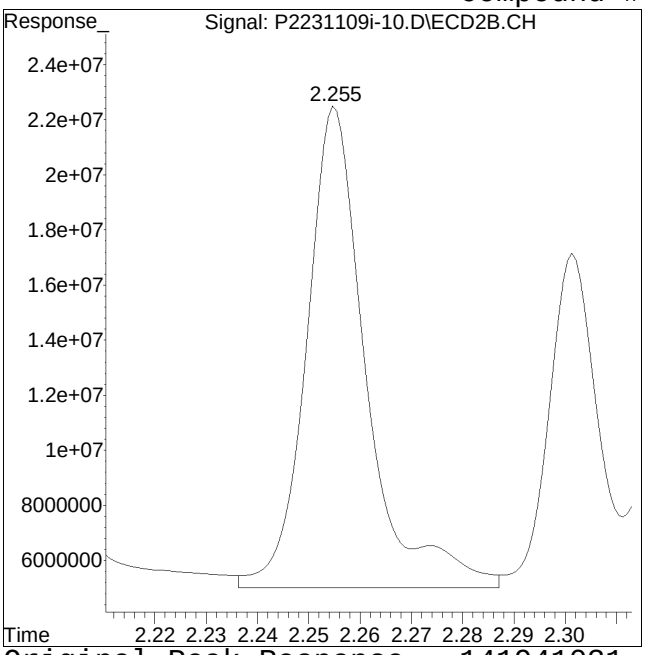


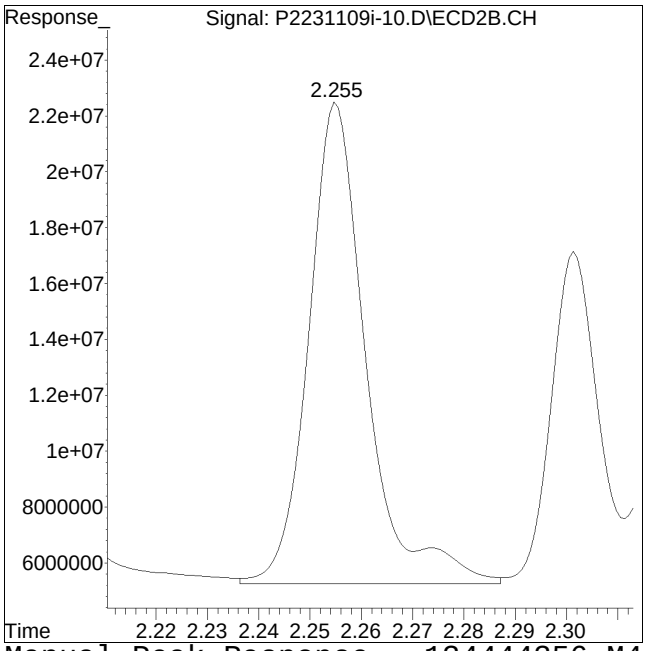
Original Peak Response = 334129125 Manual Peak Response = 324634026 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #58: 1016-4 #2



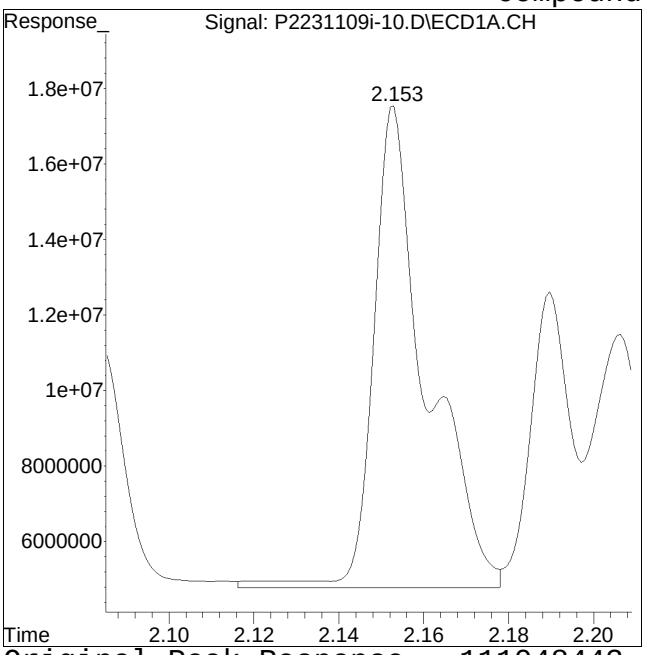


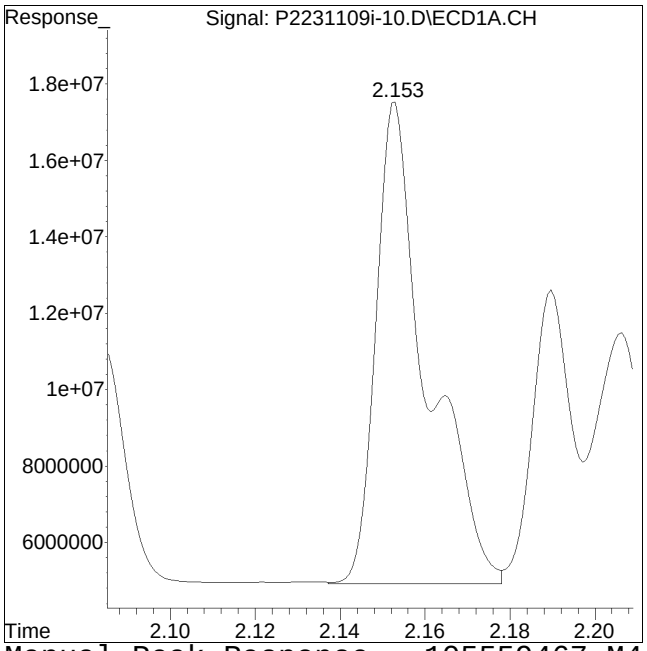
Original Peak Response = 141941031 Manual Peak Response = 134444356 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #8: 1016-5



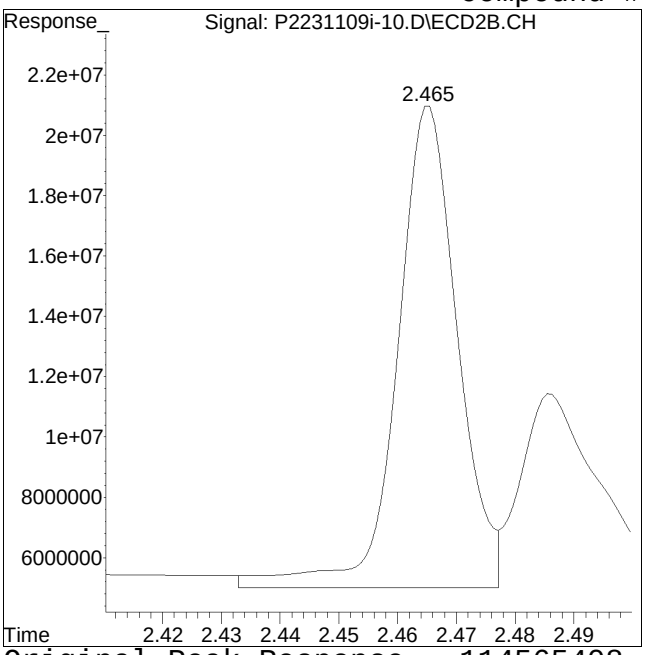


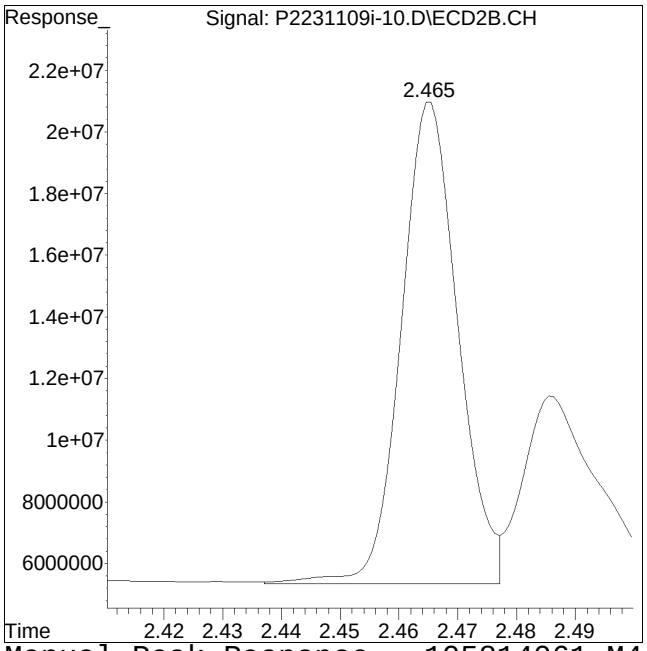
Original Peak Response = 111048443 Manual Peak Response = 105559467 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #59: 1016-5 #2



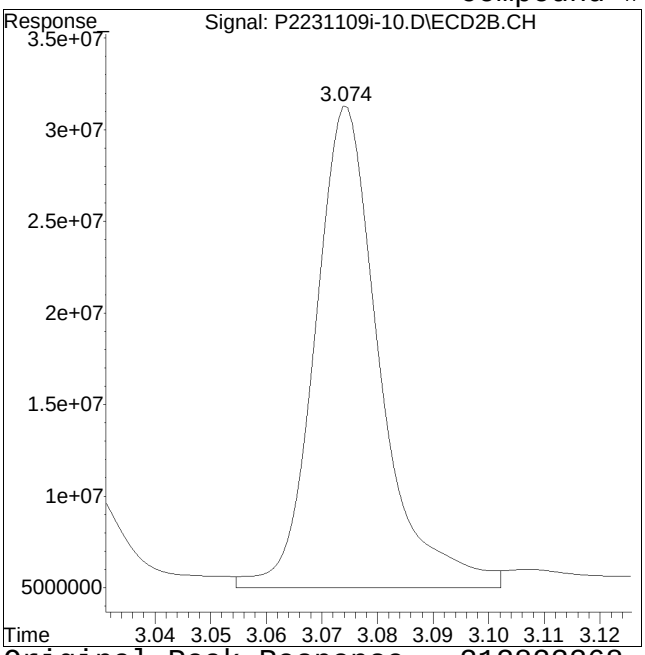


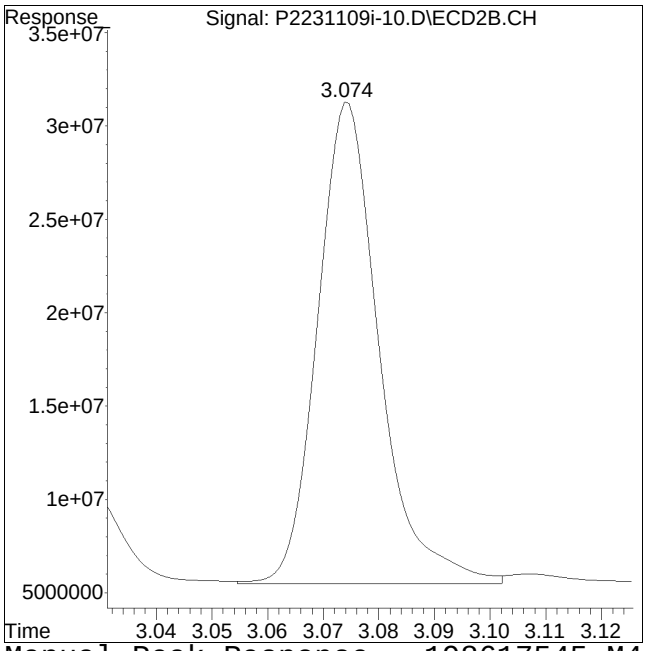
Original Peak Response = 114565408 Manual Peak Response = 105814061 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #60: 1260-1 #2



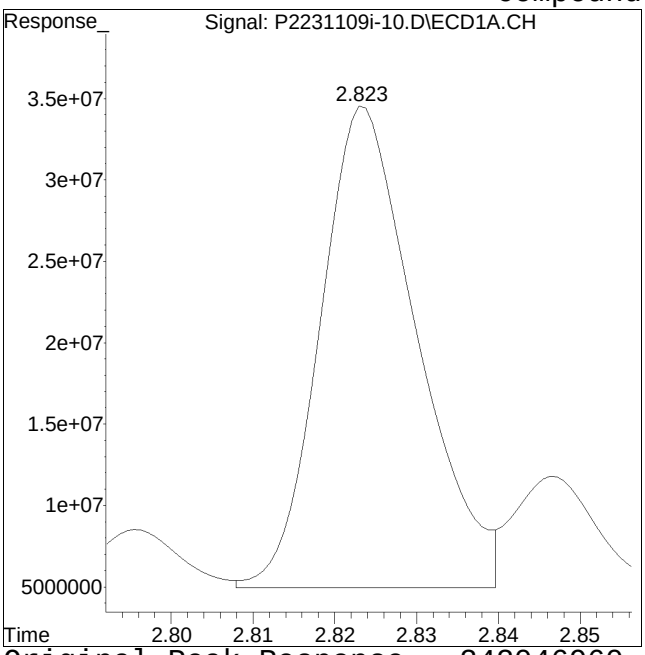


Original Peak Response = 212823368 Manual Peak Response = 198617545 M4
M4 = Poor automated baseline construction.

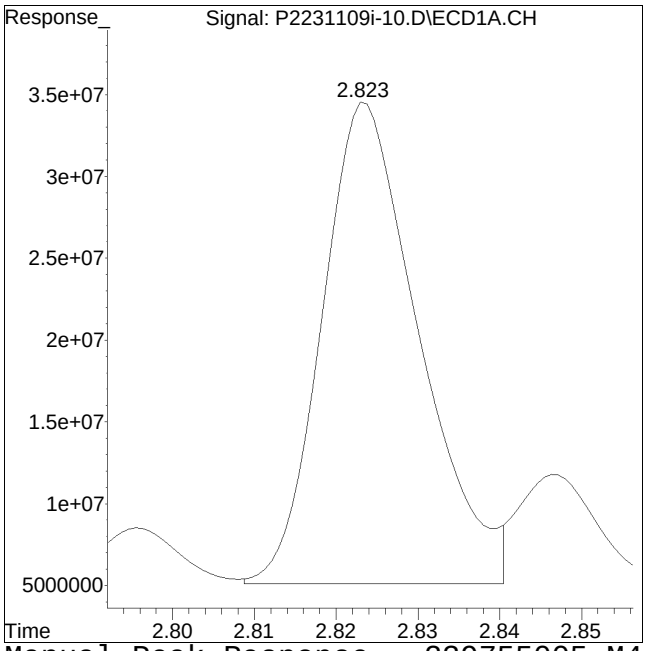
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #10: 1260-2



Original Peak Response = 242046960



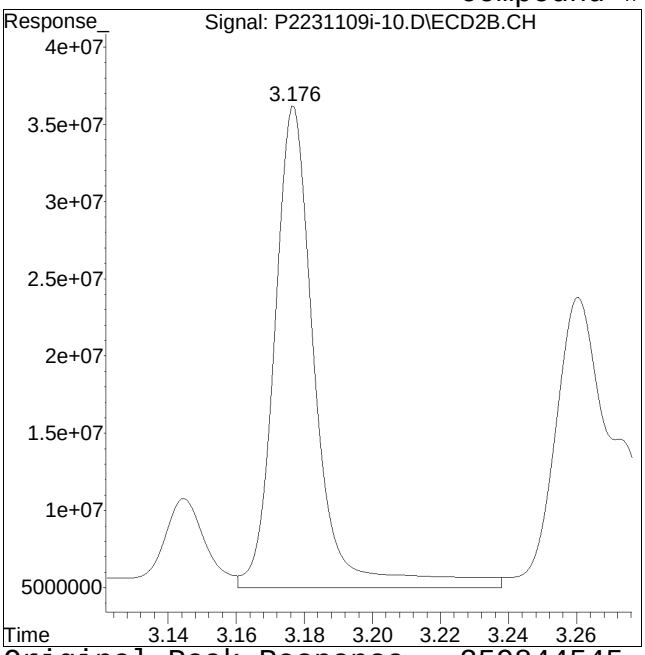
Manual Peak Response = 239755005 M4

M4 = Poor automated baseline construction.

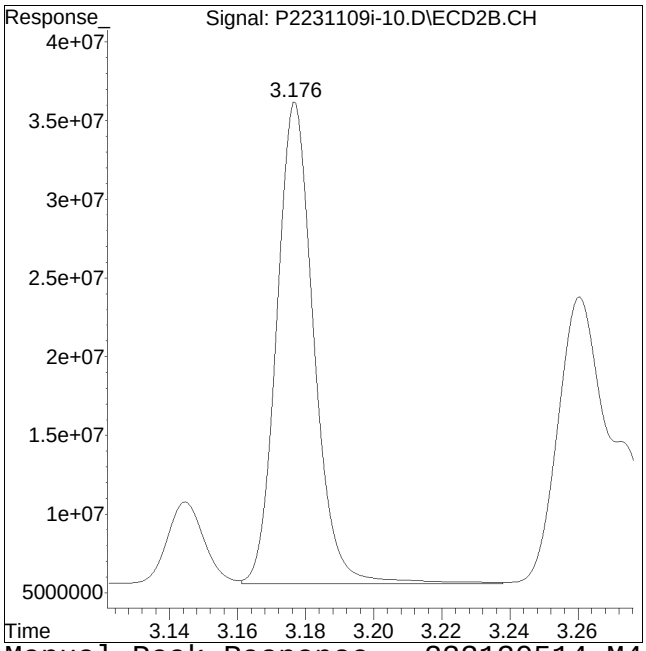
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #61: 1260-2 #2



Original Peak Response = 259844545



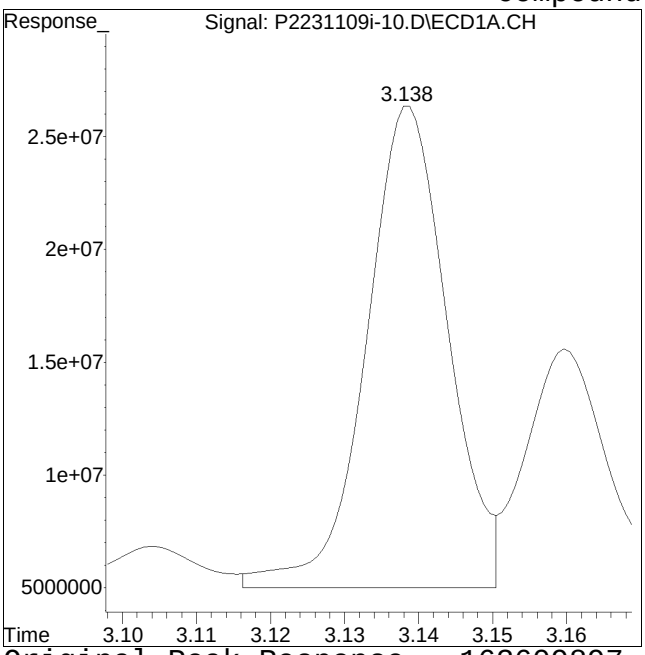
Manual Peak Response = 233130514 M4

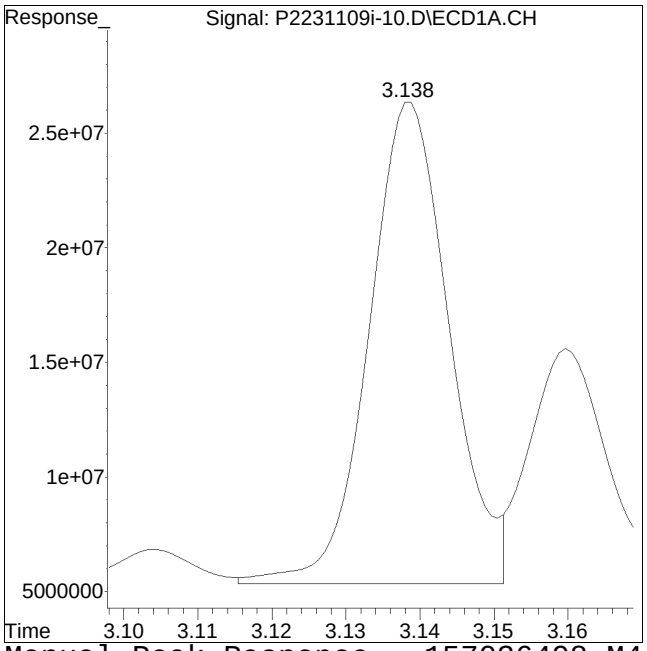
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #11: 1260-3



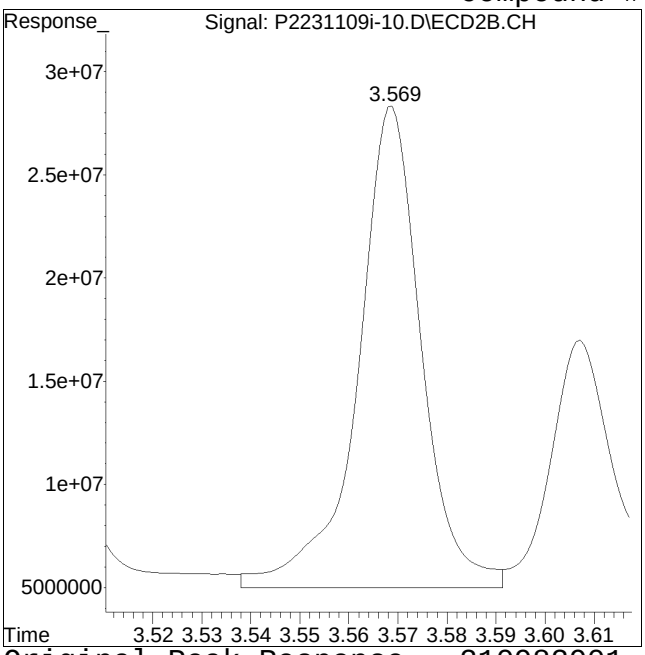


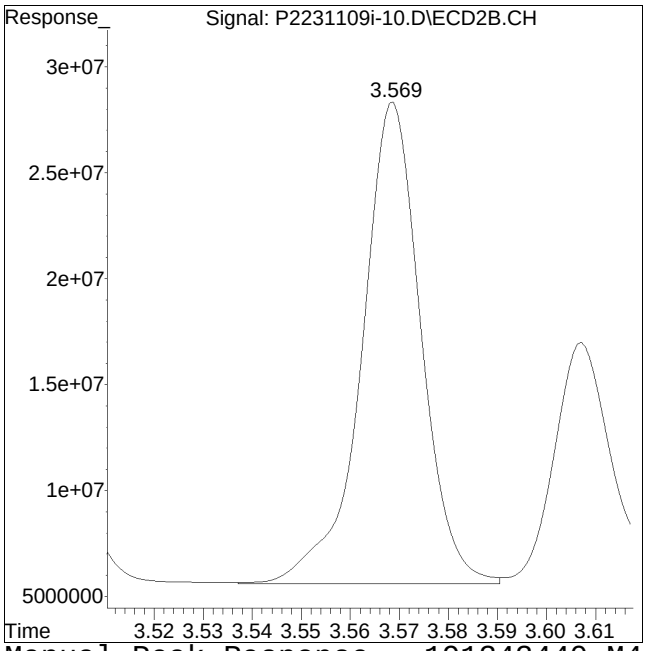
Original Peak Response = 163609897 Manual Peak Response = 157036498 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #62: 1260-3 #2



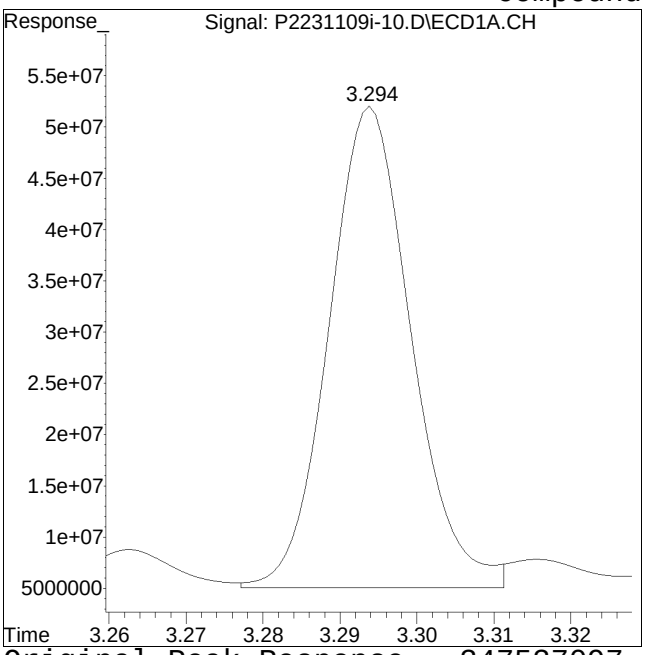


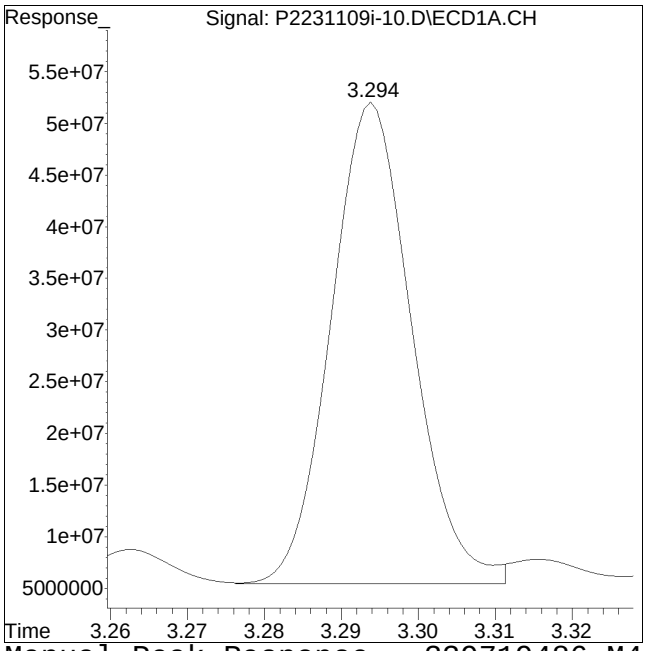
Original Peak Response = 210982901 Manual Peak Response = 191343440 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #12: 1260-4



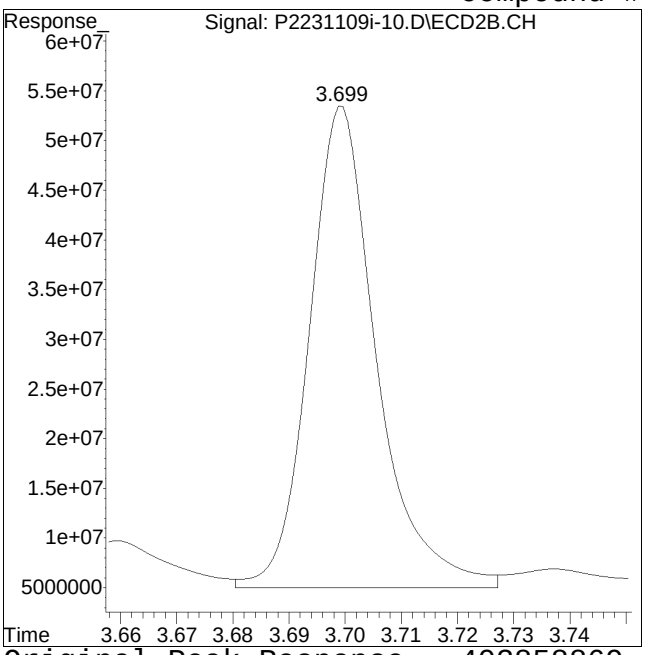


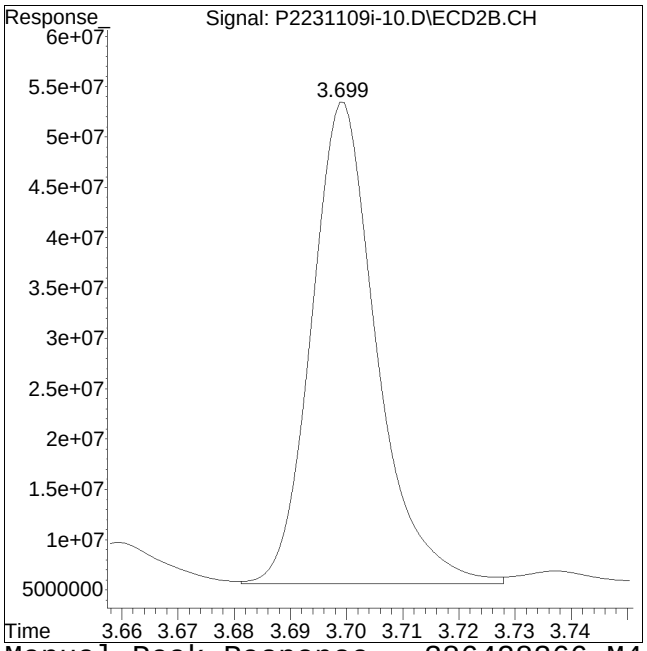
Original Peak Response = 347537097 Manual Peak Response = 339719486 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #63: 1260-4 #2



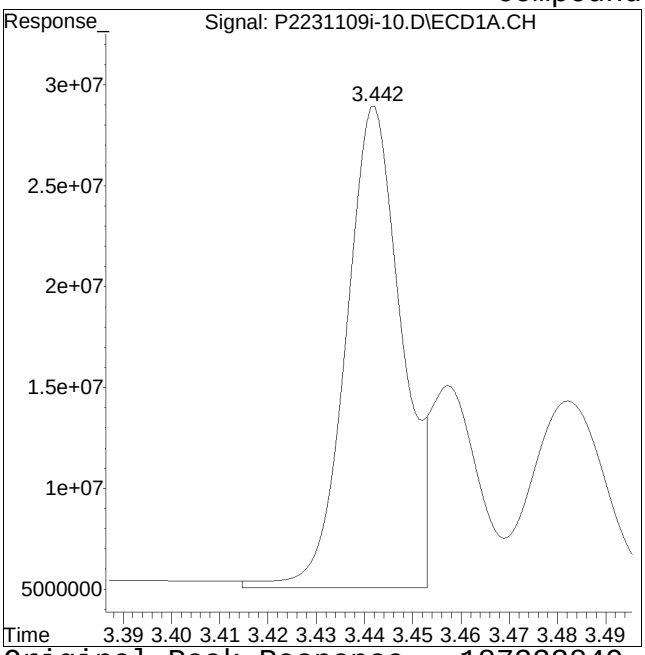


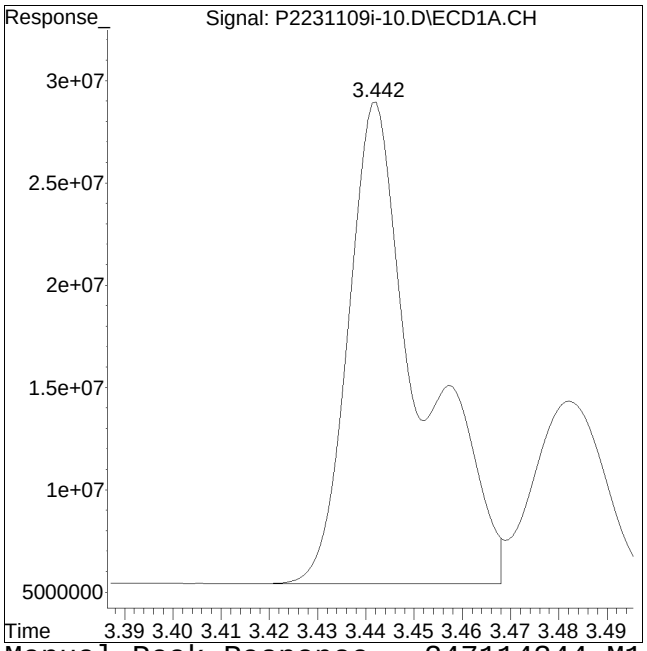
Original Peak Response = 403858869 Manual Peak Response = 386428366 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #13: 1260-5



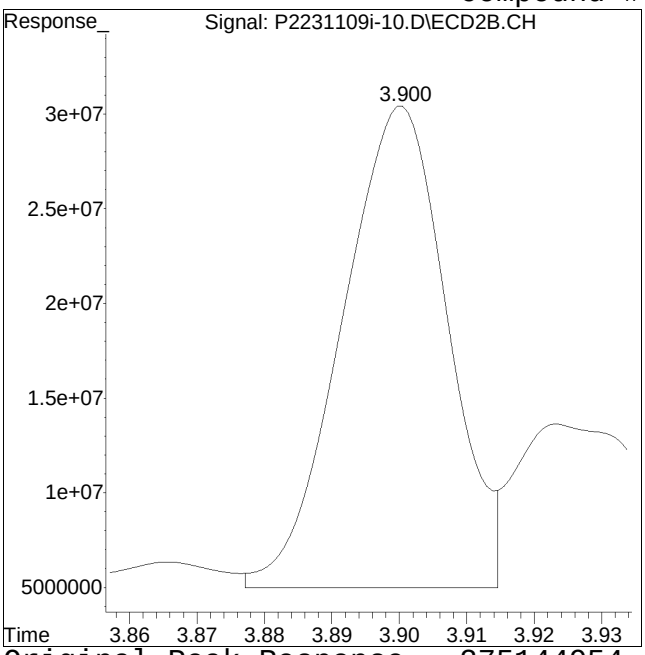


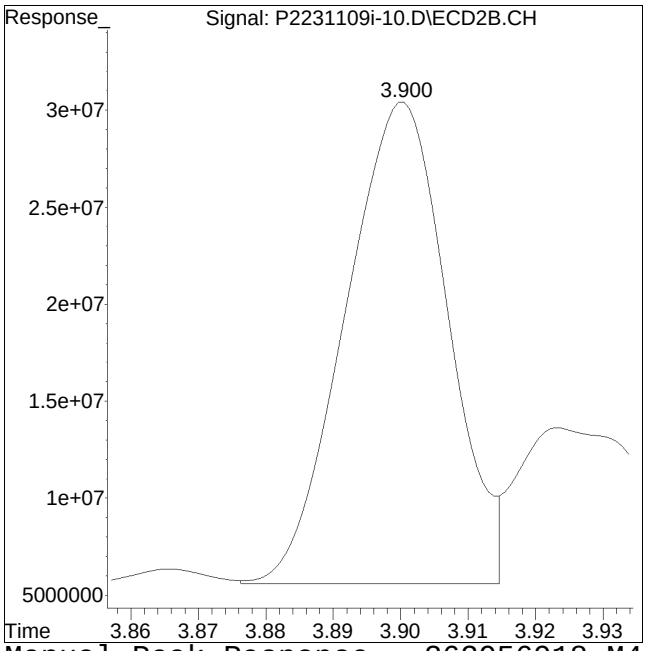
Original Peak Response = 187333849 Manual Peak Response = 247114344 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-10.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:07 pm Instrument : Pest 2
Sample : il41660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #64: 1260-5 #2





Original Peak Response = 275144954 Manual Peak Response = 262956918 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:15 pm
Operator : pest2:rmp/kb
Sample : il51660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:09:23 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:49:49 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.255	210.2E6	278.4E6	25.000	25.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.465	1.626	428.4E6	585.9E6	33.385	30.636
	Spiked Amount 20.000	Range 30 - 150		Recovery =		166.92%#	153.18%#
3) s	Decachlorobi	4.027	4.551	728.0E6	754.5E6	46.786M4	55.683
	Spiked Amount 20.000	Range 30 - 150		Recovery =		233.93%#	278.41%#
	Target Compounds						
4) l1	1016-1	1.602	1.824	108.5E6	149.0E6	411.658	403.444M4
5) l1	1016-2	1.742	1.994	214.9E6	329.0E6	441.694	378.802M4
6) l1	1016-3	1.930	2.196	508.8E6	678.2E6	494.037	447.799
7) l1	1016-4	1.984	2.256	210.6E6	275.9E6	482.084	427.989
8) l1	1016-5	2.154	2.466	215.8E6	220.0E6	431.624	412.655
	Sum 1016-1			1258.5E6	1652.1E6	2261.097	2070.689
	Average 1016-1					452.219	414.138
9) l2	1260-1	2.694	3.074	315.7E6	404.3E6	476.912	393.093M4
10) l2	1260-2	2.824	3.177	486.9E6	476.3E6	415.741	408.898M4
11) l2	1260-3	3.139	3.569	321.3E6	396.5E6	462.591	414.924M4
12) l2	1260-4	3.295	3.699	697.8E6	808.3E6	460.797	458.015M4
13) l2	1260-5	3.443	3.900	510.8E6	542.5E6	588.165	416.841M4
	Sum 1260-1			2332.5E6	2627.9E6	NoCal	NoCal D
	Average 1260-1					480.841	418.354
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:15 pm
Operator : pest2:rmp/kb
Sample : il51660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:09:23 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:49:49 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:15 pm
Operator : pest2:rmp/kb
Sample : il51660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:09:23 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:49:49 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

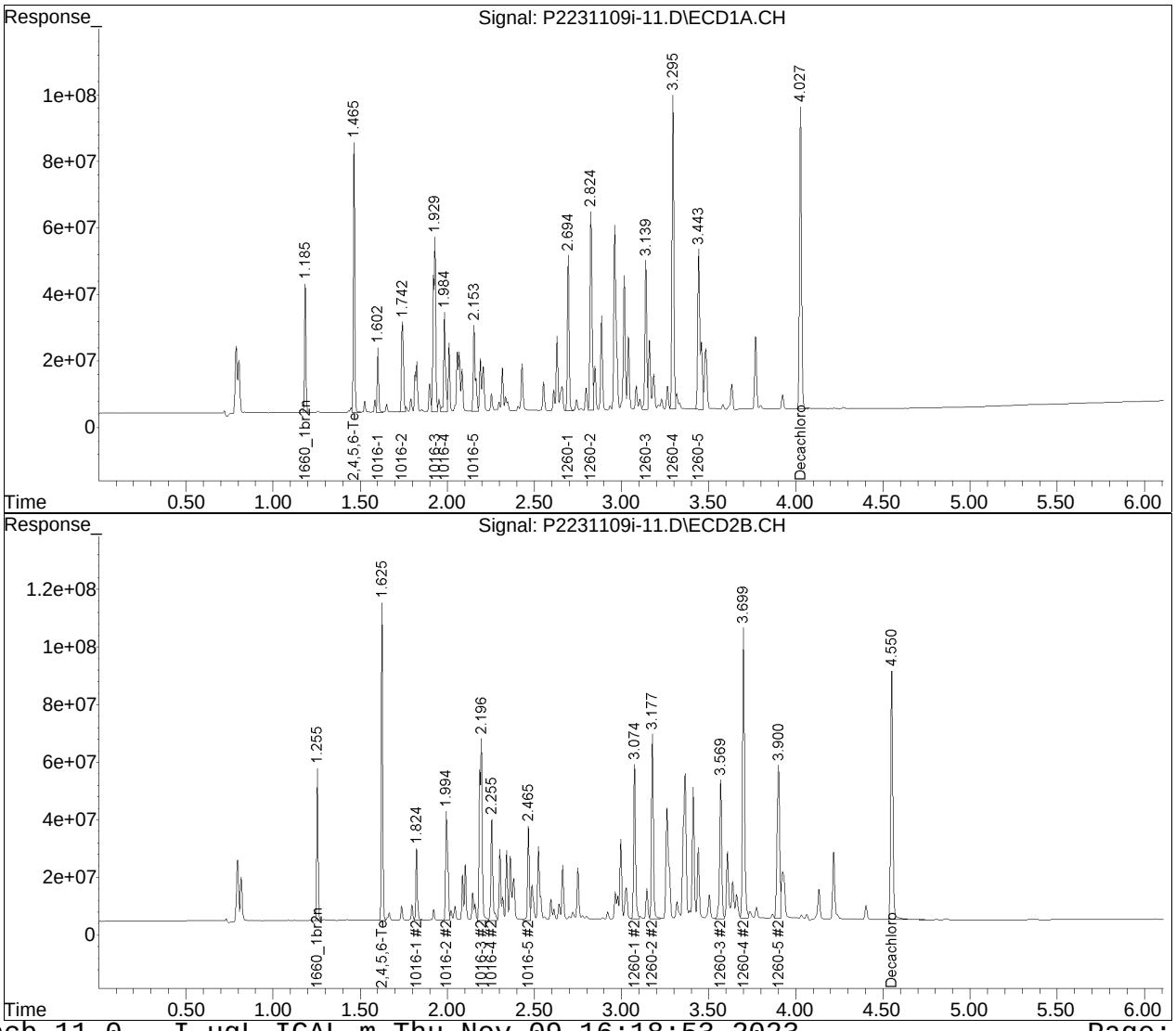
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:15 pm
Operator : pest2:rmp/kb
Sample : il51660,42,, 11381
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:09:23 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:49:49 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

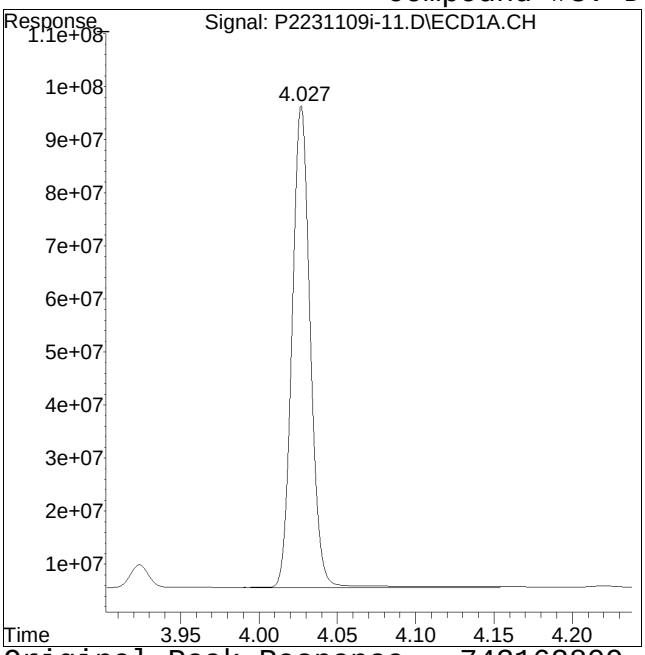
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



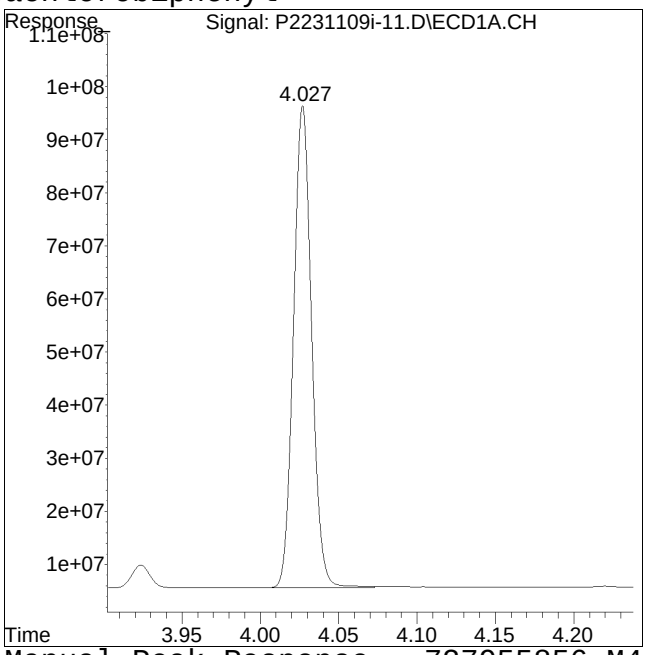
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-11.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:15 pm Instrument : Pest 2
Sample : il51660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 743162809



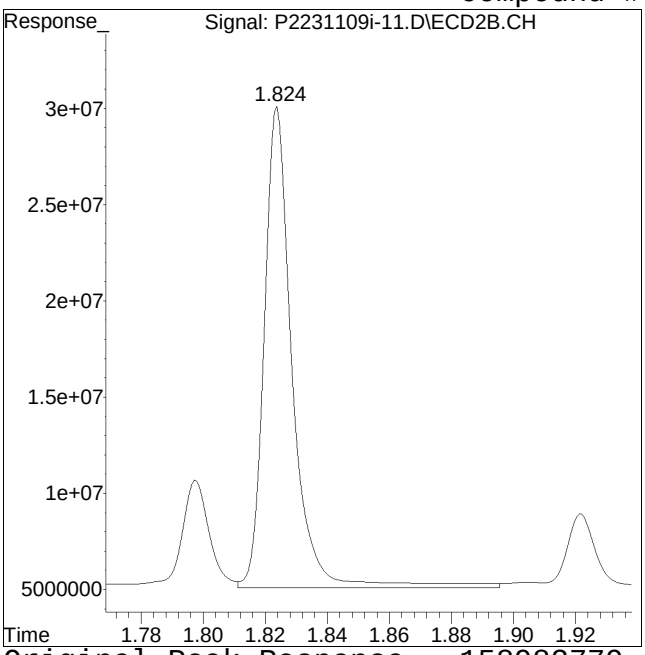
Manual Peak Response = 727955856 M4

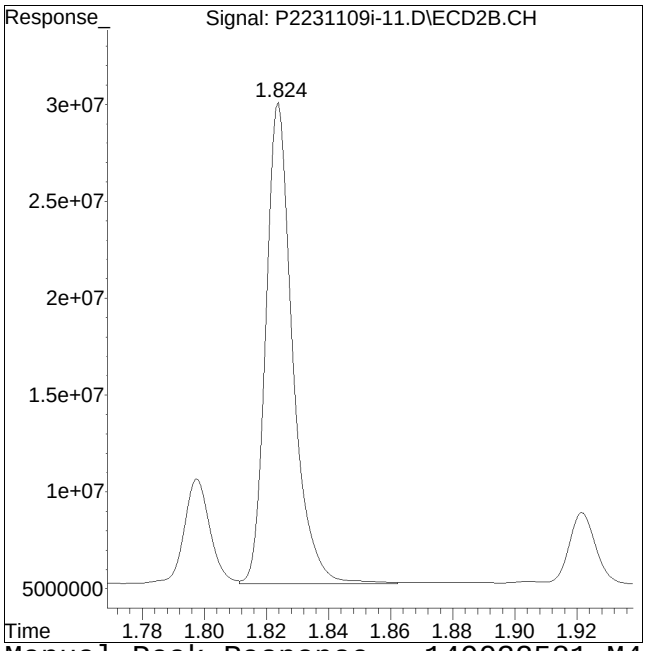
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-11.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:15 pm Instrument : Pest 2
Sample : il51660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #55: 1016-1 #2



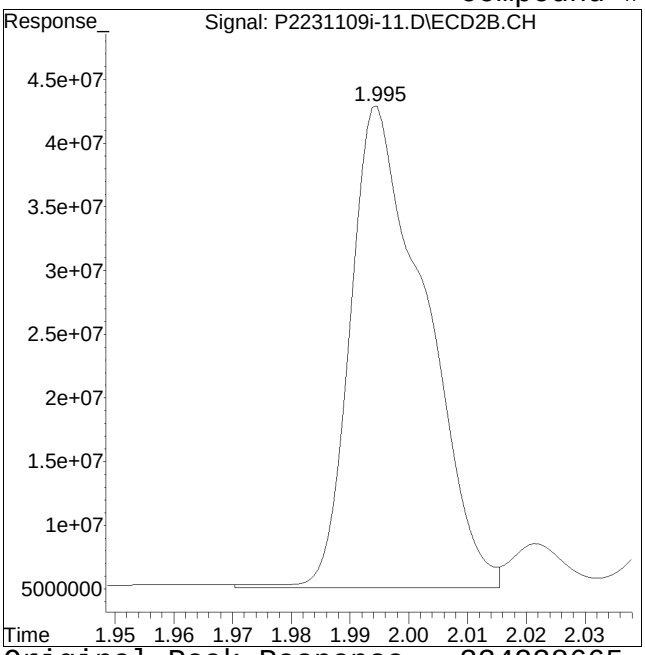


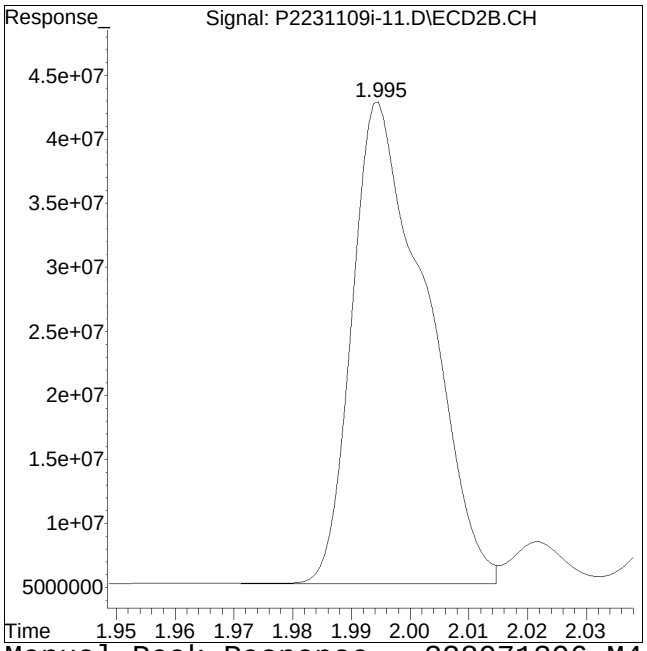
Original Peak Response = 158982779 Manual Peak Response = 149032581 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-11.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:15 pm Instrument : Pest 2
Sample : il51660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #56: 1016-2 #2



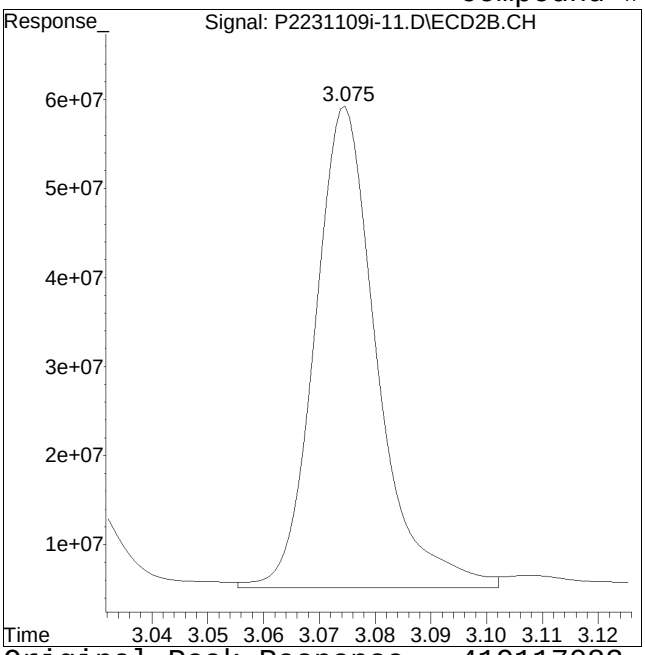


Original Peak Response = 334238665 Manual Peak Response = 328971396 M4
M4 = Poor automated baseline construction.

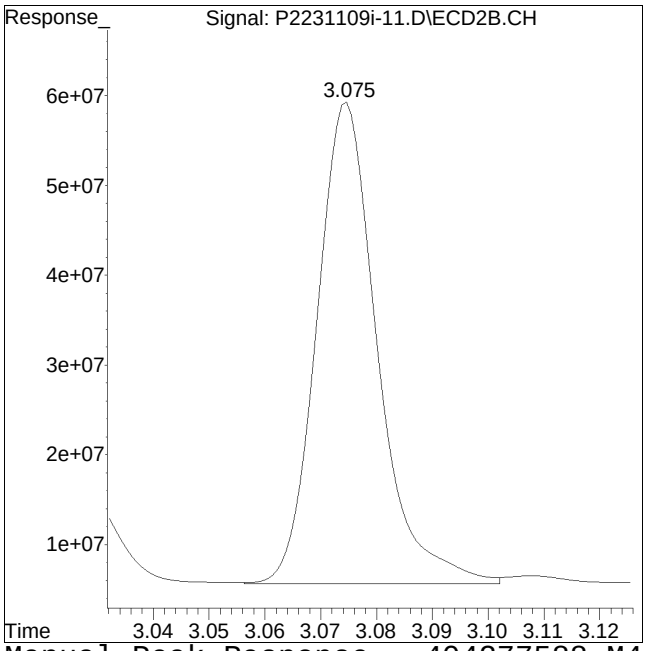
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-11.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:15 pm Instrument : Pest 2
Sample : il51660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #60: 1260-1 #2



Original Peak Response = 419117083



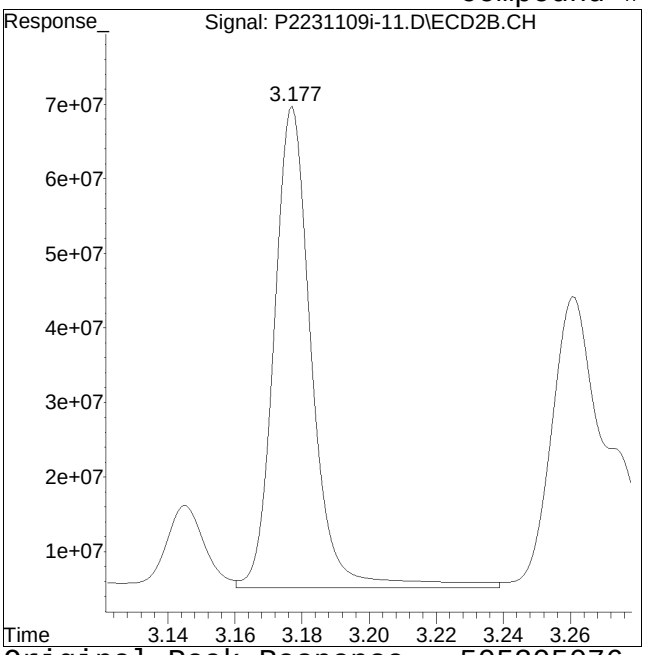
Manual Peak Response = 404277588 M4

M4 = Poor automated baseline construction.

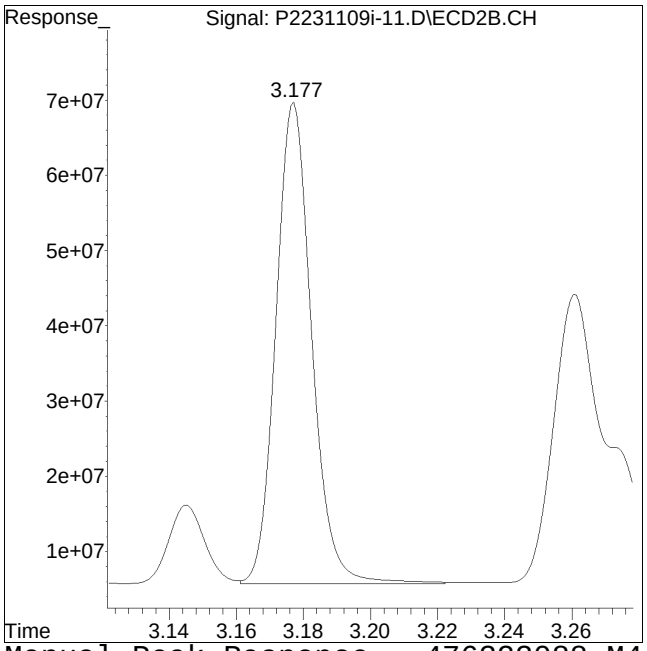
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-11.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:15 pm Instrument : Pest 2
Sample : il51660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #61: 1260-2 #2



Original Peak Response = 505305076

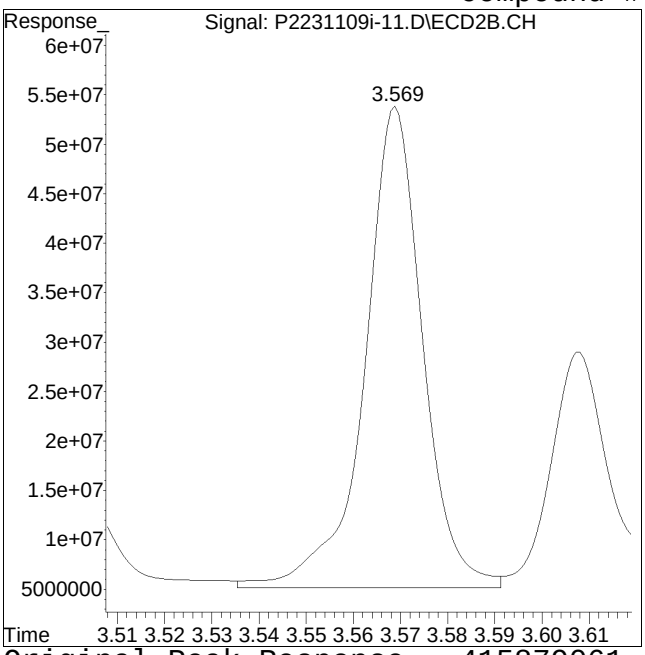


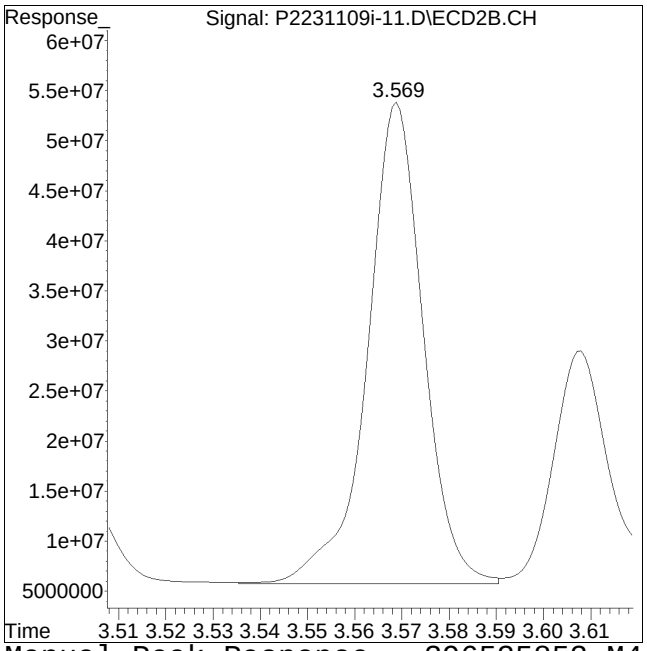
Manual Peak Response = 476323088 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-11.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:15 pm Instrument : Pest 2
Sample : il51660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #62: 1260-3 #2



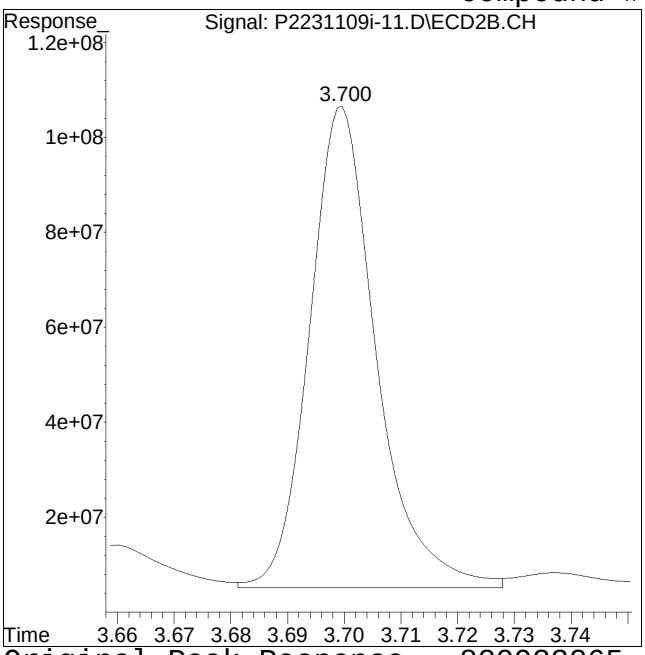


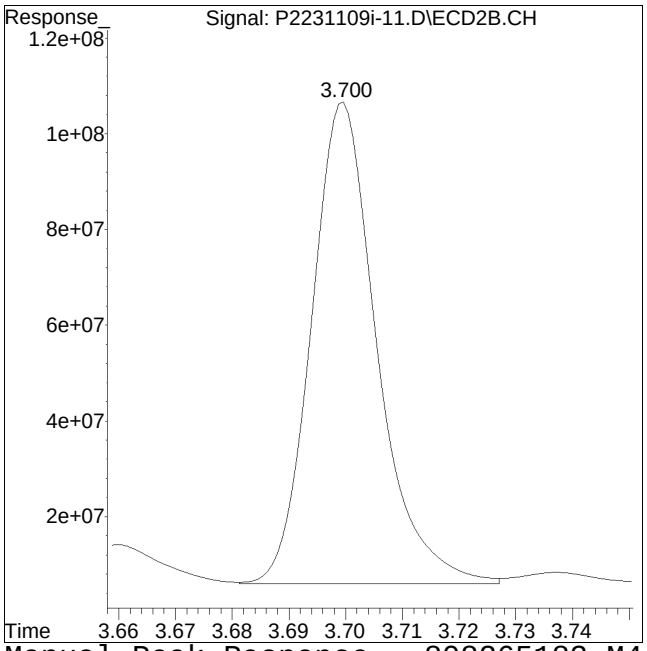
Original Peak Response = 415879061 Manual Peak Response = 396535853 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-11.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:15 pm Instrument : Pest 2
Sample : il51660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #63: 1260-4 #2



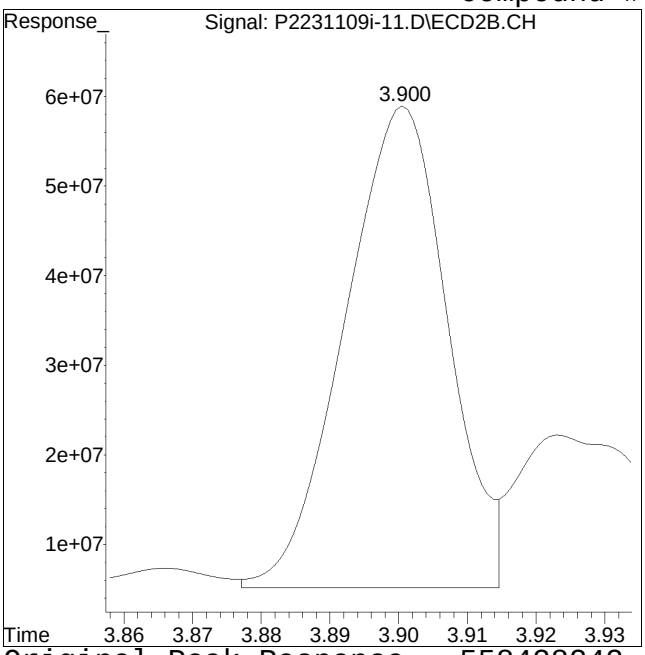


Original Peak Response = 829933265 Manual Peak Response = 808265183 M4
M4 = Poor automated baseline construction.

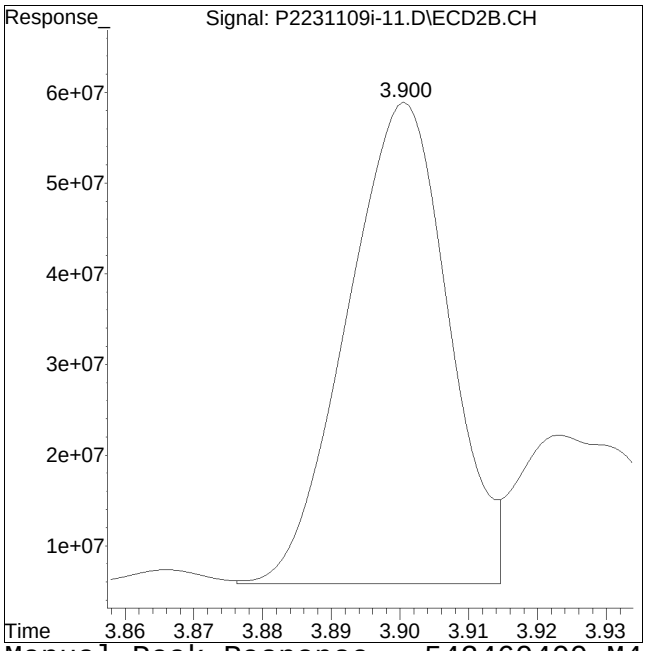
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-11.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:15 pm Instrument : Pest 2
Sample : il51660,42,, 11381 Quant Date : 11/9/2023 2:49 pm

Compound #64: 1260-5 #2



Original Peak Response = 558428242



Manual Peak Response = 542460400 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:24 pm
Operator : pest2:rmp/kb
Sample : il61660,42,, 11381
Misc : WG1850491,,
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:11:25 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:50:06 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.185	1.255	217.8E6	277.1E6	25.000M4	25.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.626	856.5E6	1143.5E6	63.870	60.592
	Spiked Amount 20.000	Range 30 - 150		Recovery =		319.35%#	302.96%#
3) s	Decachlorobi	4.028	4.551	1423.2E6	1457.3E6	92.998M4	110.933M4
	Spiked Amount 20.000	Range 30 - 150		Recovery =		464.99%#	554.67%#
	Target Compounds						
4) l1	1016-1	1.603	1.825	211.8E6	280.3E6	803.860	784.148
5) l1	1016-2	1.742	1.995	416.4E6	606.6E6	845.747M3	735.698M3
6) l1	1016-3	1.930	2.195	1001.4E6	1273.0E6	940.723	862.513
7) l1	1016-4	1.984	2.256	414.9E6	506.2E6	923.441M1	812.439
8) l1	1016-5	2.154	2.466	424.9E6	411.0E6	843.220	802.530
Sum	1016-1			2469.4E6	3077.1E6	4356.991	3997.328
Average	1016-1					871.398	799.466
9) l2	1260-1	2.695	3.075	621.0E6	807.1E6	913.802	818.722
10) l2	1260-2	2.825	3.178	959.1E6	951.5E6	817.959	842.979
11) l2	1260-3	3.140	3.569	649.0E6	762.6E6	915.560	823.099M4
12) l2	1260-4	3.296	3.700	1417.2E6	1597.0E6	917.553	920.147M4
13) l2	1260-5	3.443	3.901	1028.2E6	1055.2E6	1103.708M1	838.483M4
Sum	1260-1			4674.5E6	5173.3E6	NoCal	NoCal D
Average	1260-1					933.716	848.686

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:24 pm
Operator : pest2:rmp/kb
Sample : il61660,42,, 11381
Misc : WG1850491,,
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:11:25 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:50:06 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:24 pm
Operator : pest2:rmp/kb
Sample : il61660,42,, 11381
Misc : WG1850491,,
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:11:25 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:50:06 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

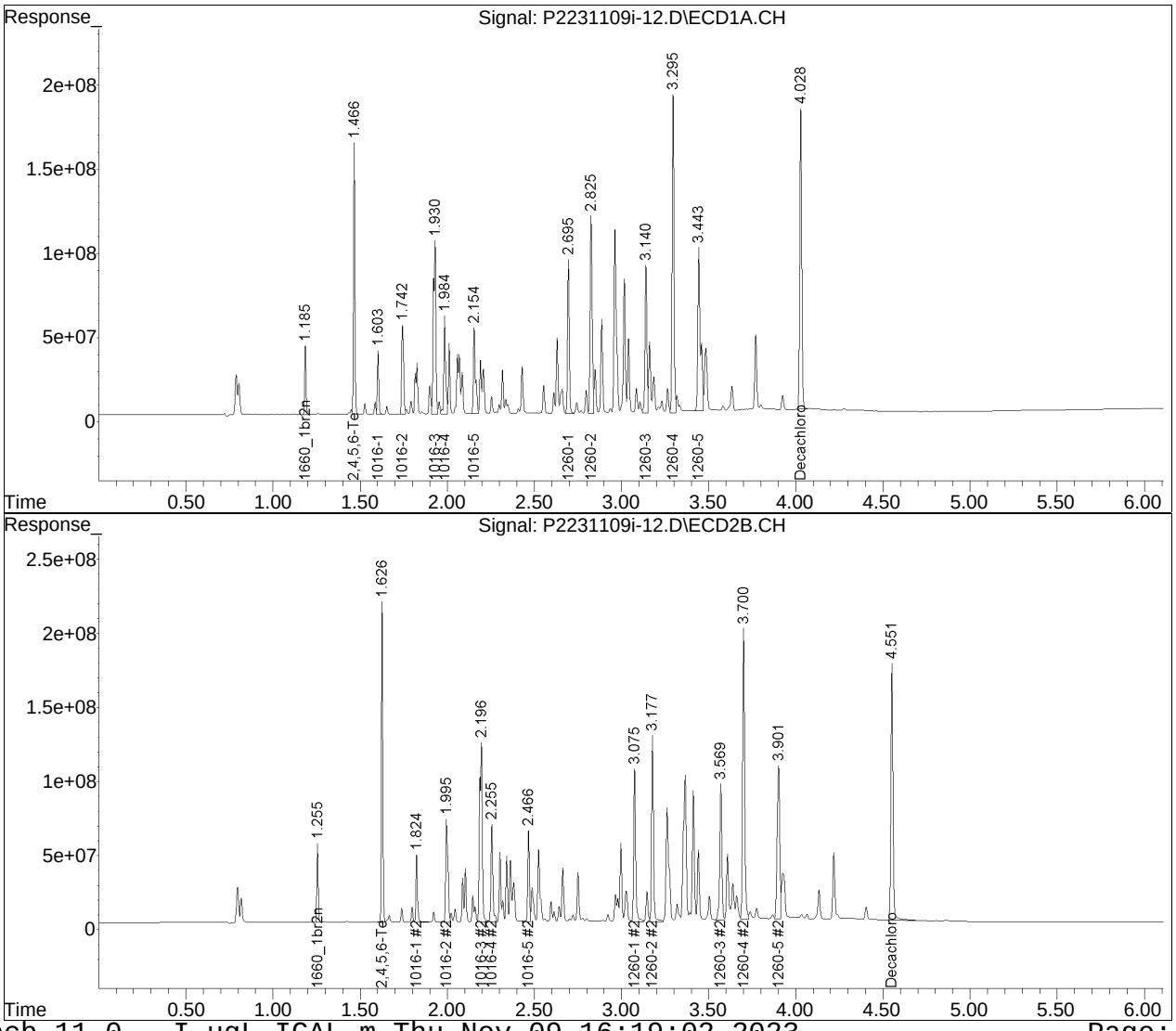
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:24 pm
Operator : pest2:rmp/kb
Sample : il61660,42,, 11381
Misc : WG1850491,,
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 15:11:25 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 14:50:06 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

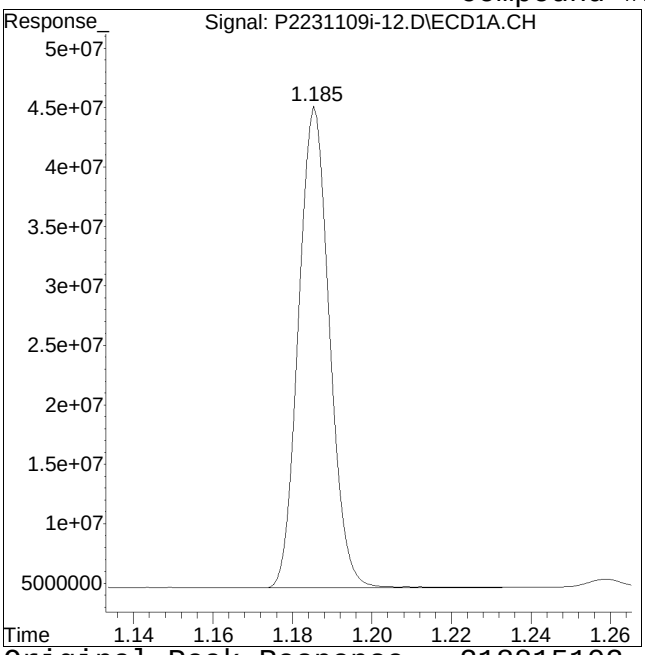
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



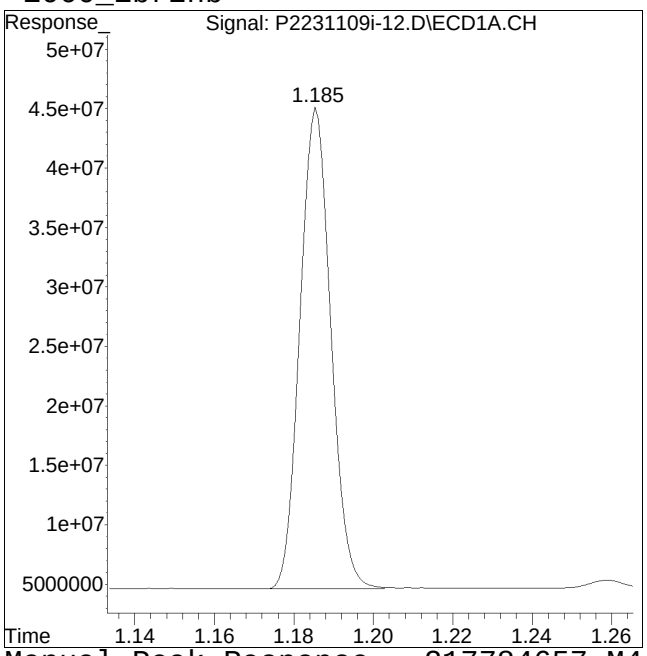
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-12.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:24 pm Instrument : Pest 2
Sample : il61660,42,, 11381 Quant Date : 11/9/2023 2:50 pm

Compound #1: 1660_1br2nb



Original Peak Response = 218815102

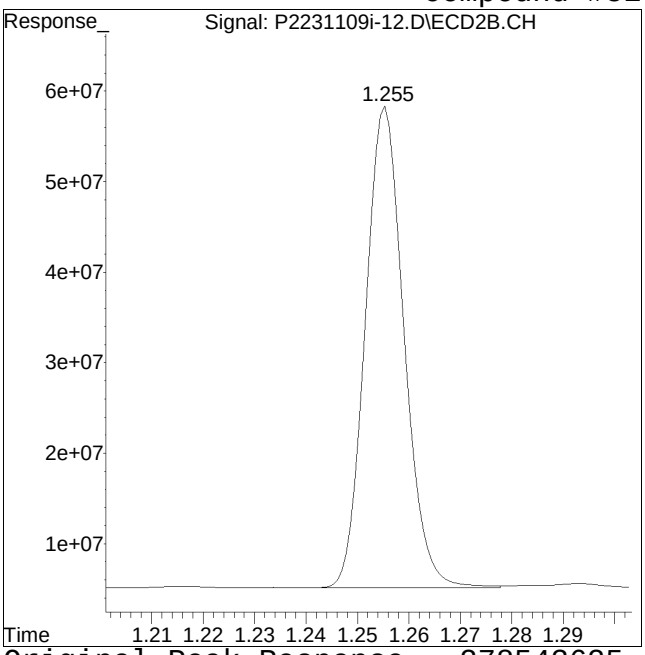


Manual Peak Response = 217784657 M4
M4 = Poor automated baseline construction.

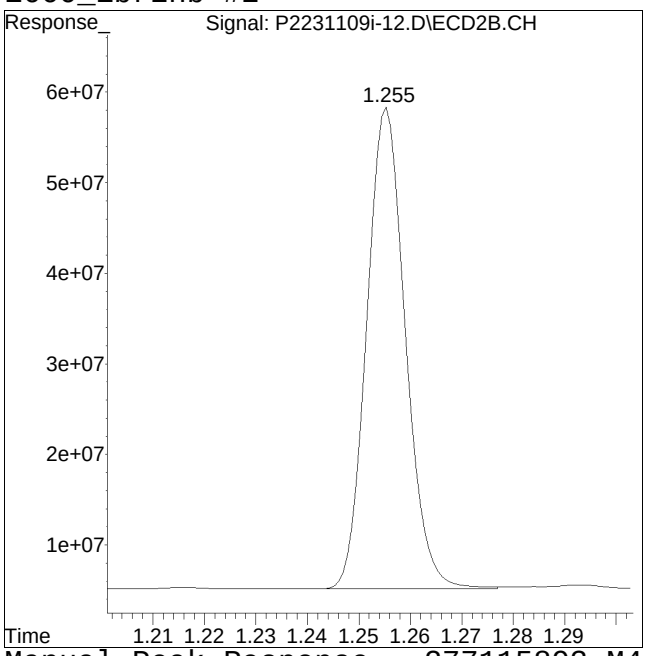
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-12.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:24 pm Instrument : Pest 2
Sample : il61660,42,, 11381 Quant Date : 11/9/2023 2:50 pm

Compound #52: 1660_1br2nb #2



Original Peak Response = 278543625



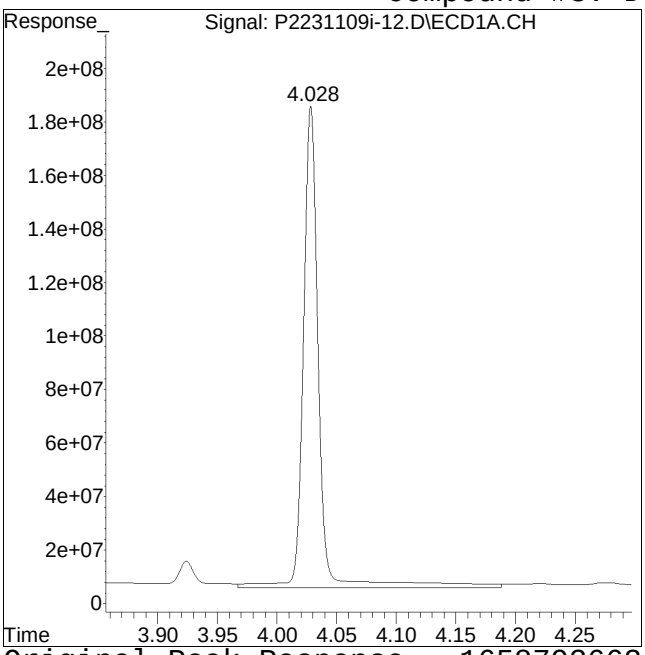
Manual Peak Response = 277115893 M4

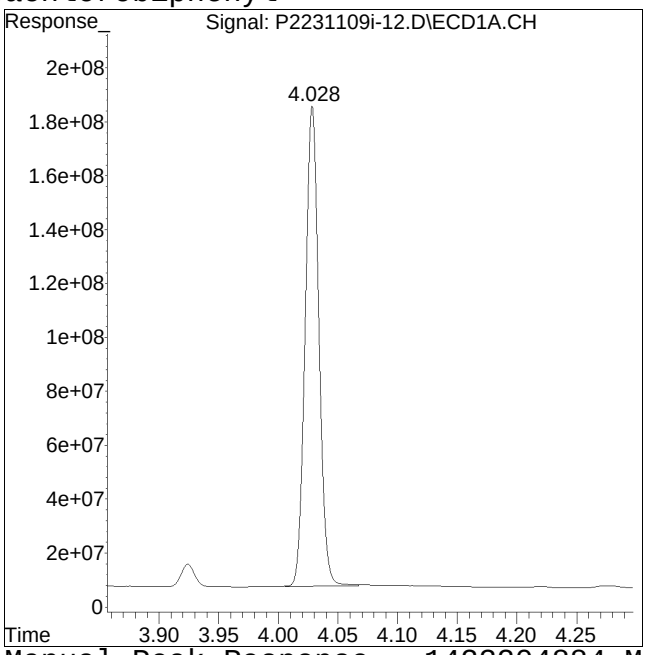
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-12.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:24 pm Instrument : Pest 2
Sample : il61660,42,, 11381 Quant Date : 11/9/2023 2:50 pm

Compound #3: Decachlorobiphenyl



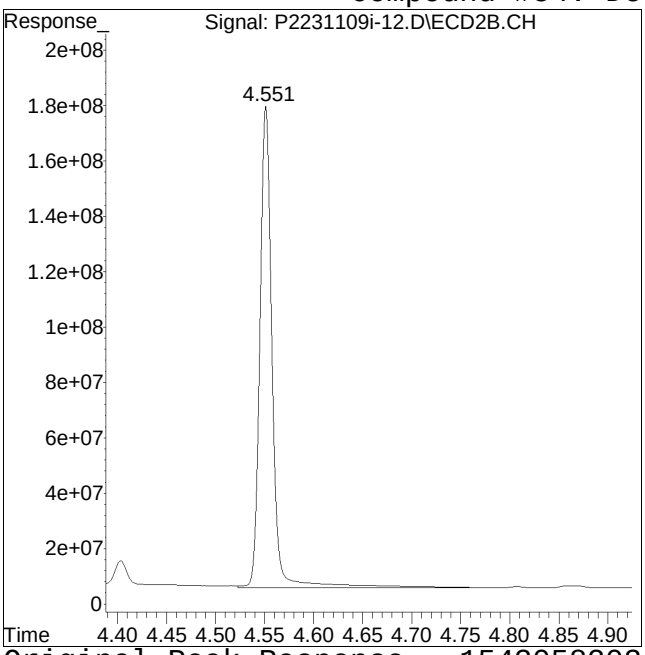


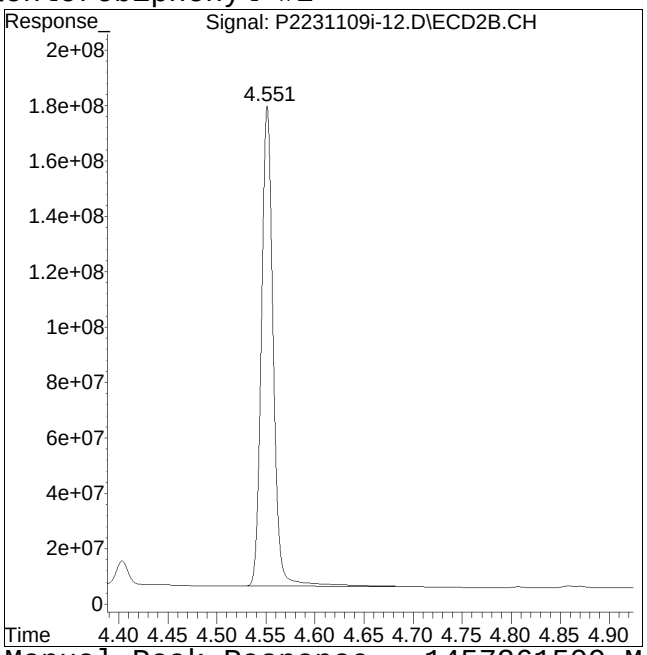
Original Peak Response = 1658793663 Manual Peak Response = 1423204884 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-12.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:24 pm Instrument : Pest 2
Sample : il61660,42,, 11381 Quant Date : 11/9/2023 2:50 pm

Compound #54: Decachlorobiphenyl #2



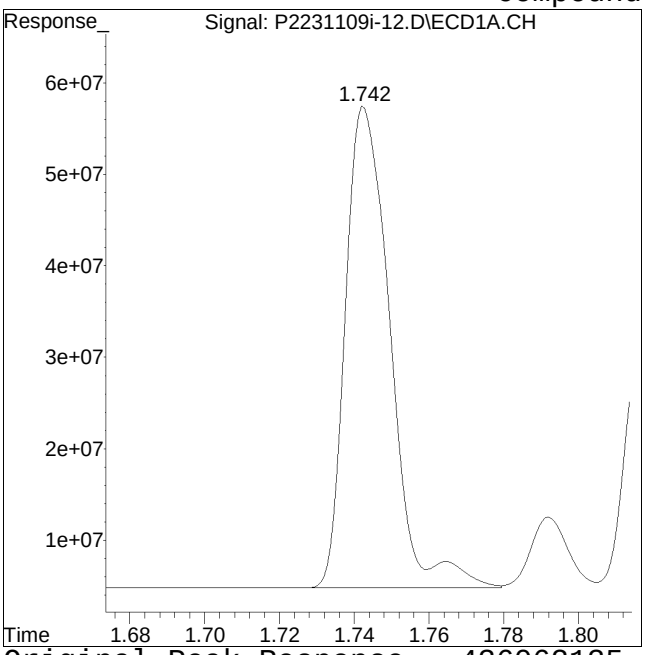


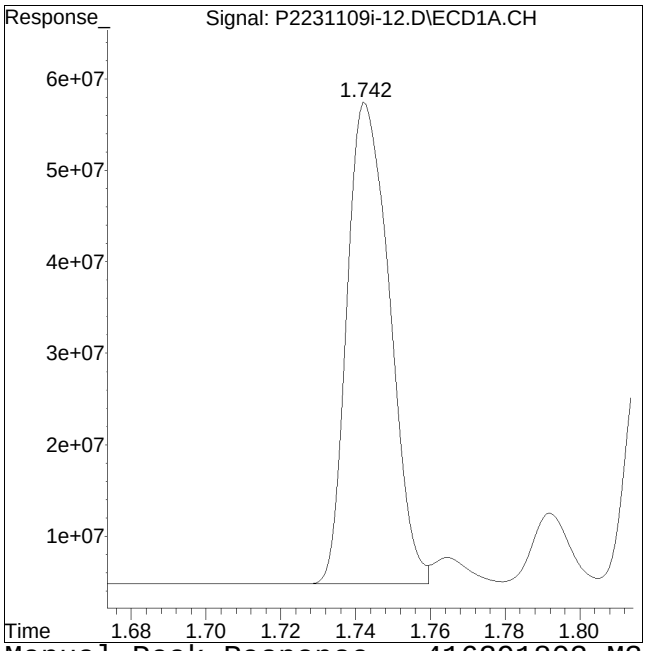
Original Peak Response = 1543058203 Manual Peak Response = 1457261509 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-12.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:24 pm Instrument : Pest 2
Sample : il61660,42,, 11381 Quant Date : 11/9/2023 2:50 pm

Compound #5: 1016-2



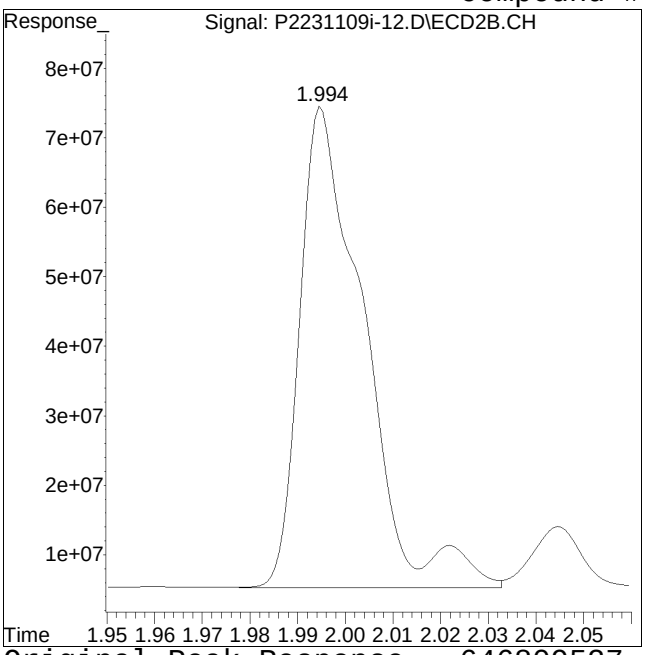


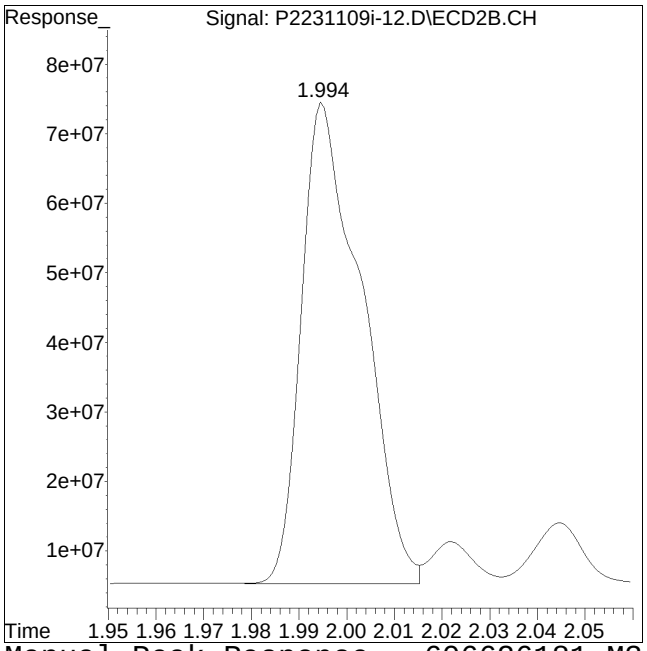
Original Peak Response = 436062135 Manual Peak Response = 416391803 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-12.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:24 pm Instrument : Pest 2
Sample : il61660,42,, 11381 Quant Date : 11/9/2023 2:50 pm

Compound #56: 1016-2 #2



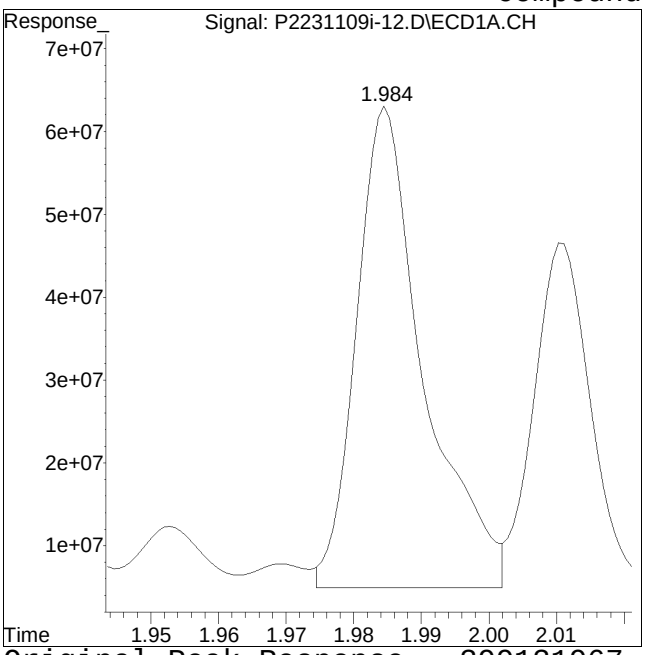


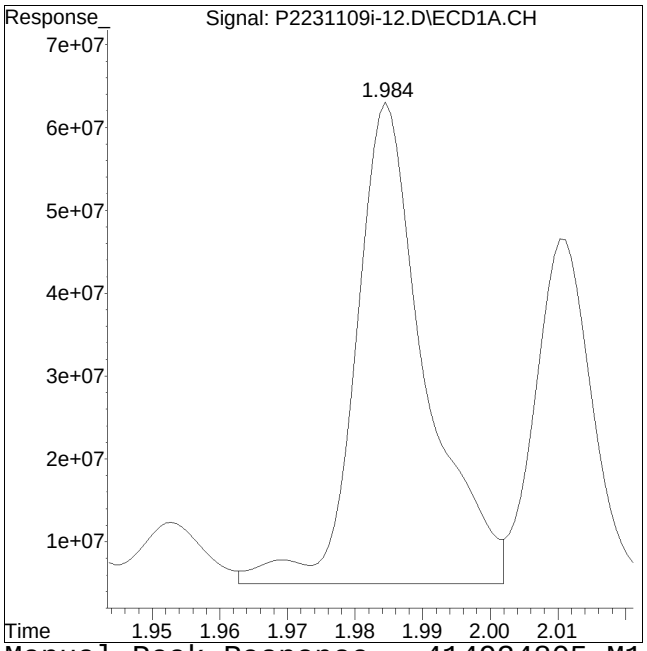
Original Peak Response = 646809527 Manual Peak Response = 606626181 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-12.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:24 pm Instrument : Pest 2
Sample : il61660,42,, 11381 Quant Date : 11/9/2023 2:50 pm

Compound #7: 1016-4



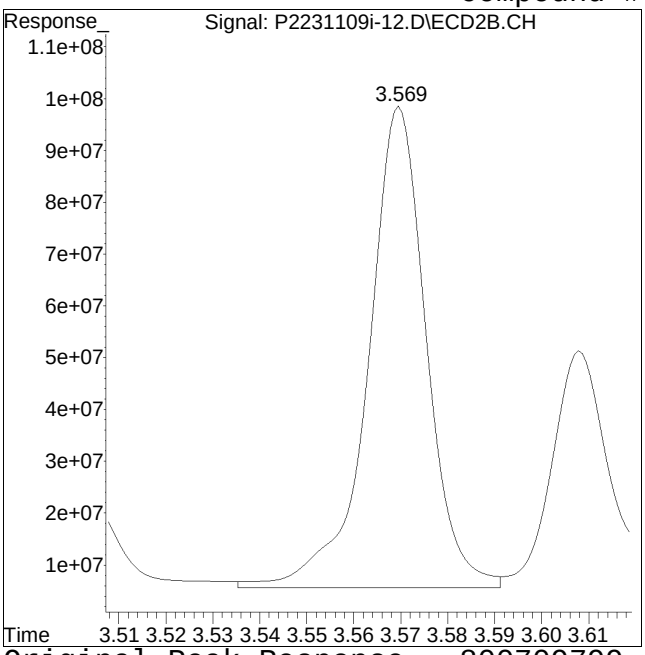


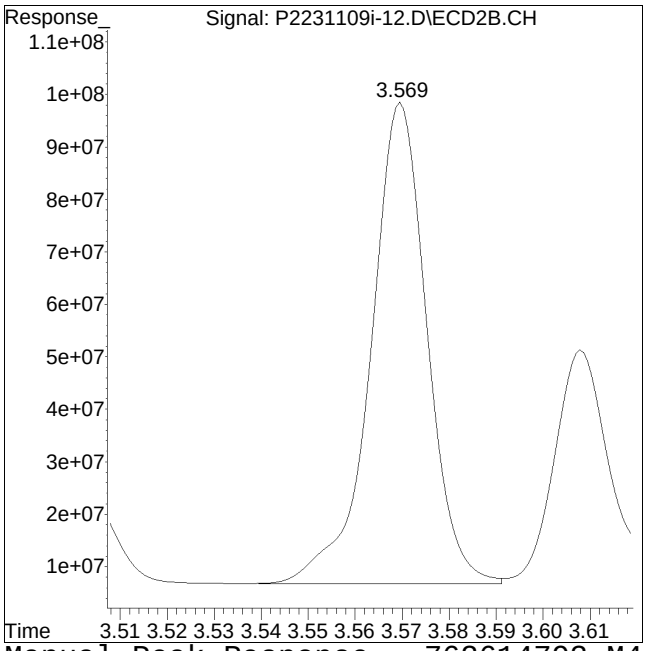
Original Peak Response = 399131967 Manual Peak Response = 414934805 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-12.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:24 pm Instrument : Pest 2
Sample : il61660,42,, 11381 Quant Date : 11/9/2023 2:50 pm

Compound #62: 1260-3 #2



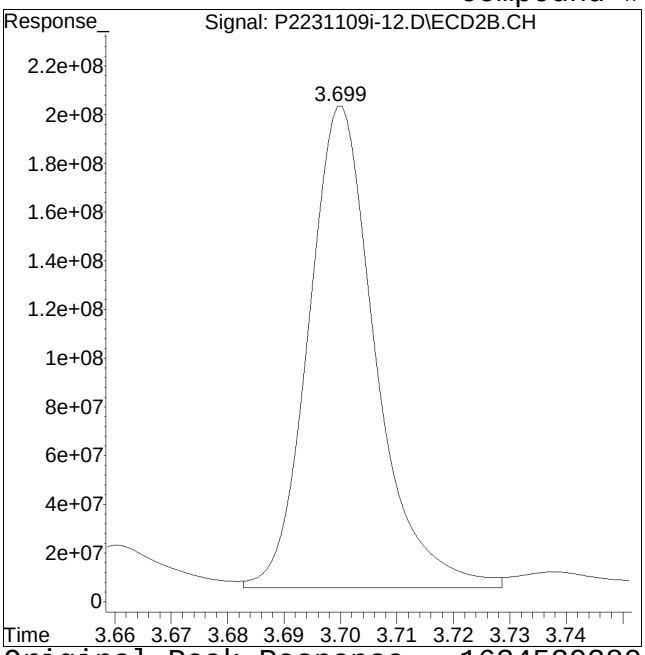


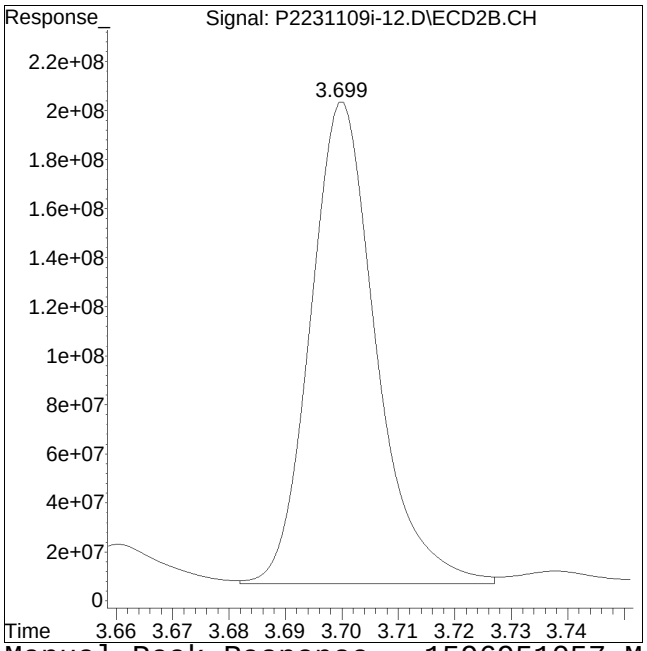
Original Peak Response = 800709799 Manual Peak Response = 762614793 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-12.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:24 pm Instrument : Pest 2
Sample : il61660,42,, 11381 Quant Date : 11/9/2023 2:50 pm

Compound #63: 1260-4 #2



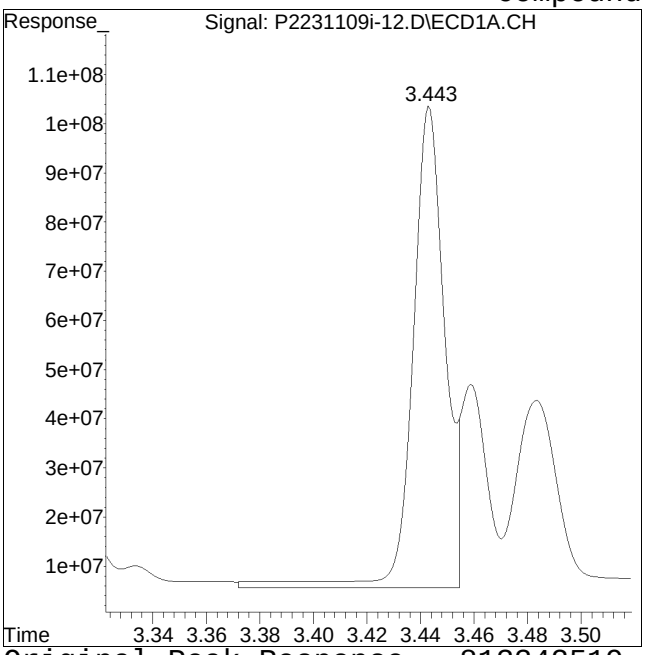


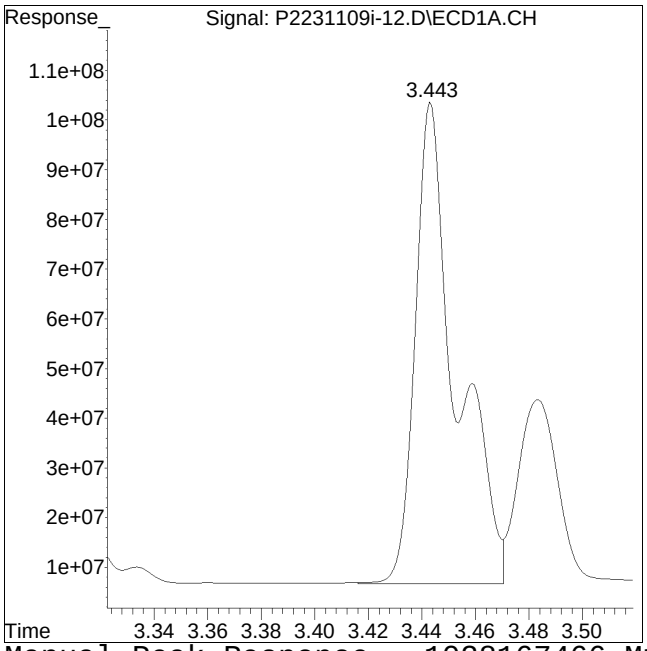
Original Peak Response = 1634529280 Manual Peak Response = 1596951057 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-12.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:24 pm Instrument : Pest 2
Sample : il61660,42,, 11381 Quant Date : 11/9/2023 2:50 pm

Compound #13: 1260-5



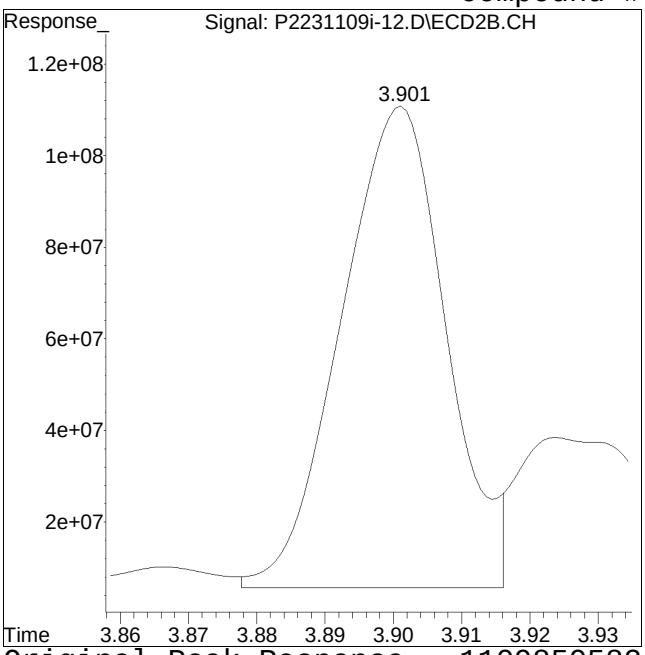


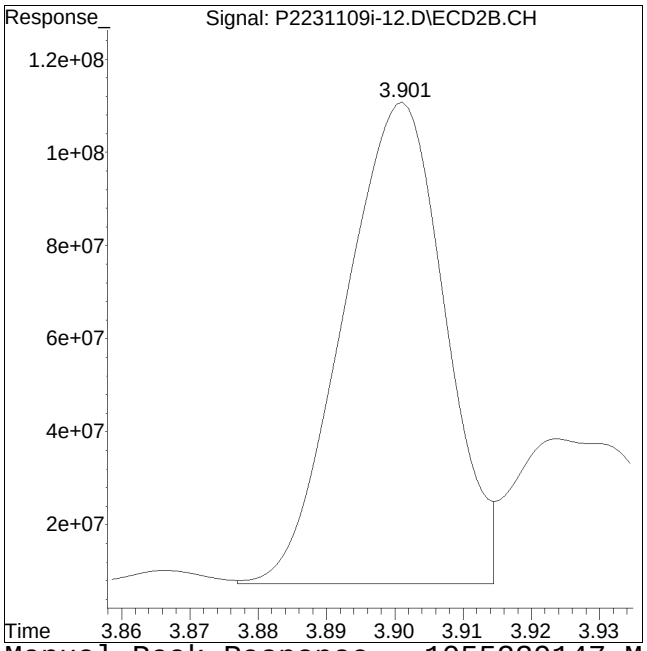
Original Peak Response = 813342519 Manual Peak Response = 1028167466 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-12.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:24 pm Instrument : Pest 2
Sample : il61660,42,, 11381 Quant Date : 11/9/2023 2:50 pm

Compound #64: 1260-5 #2





Original Peak Response = 1109859582 Manual Peak Response = 1055239147 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   2:33 pm
Operator : pest2:rmp/kb
Sample   : cicv4268,42,, 11350
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:25 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:13 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	103	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.524	1.504	1.3	103	0.00
3	s	Decachlorobiphenyl		1.372	2.025	-47.6#	155#	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	101	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	102	0.00
24	l6	1242-1		0.021	0.021	0.0	104	0.00
25	l6	1242-2		0.042	0.044	-4.8	108	0.00
26	l6	1242-3		0.094	0.096	-2.1	105	0.00
27	l6	1242-4		0.040	0.041	-2.5	104	0.00
28	l6	1242-5		0.031	0.031	0.0	103	0.00
29	l9	1268-1		0.219	0.247	-12.8	115	0.00
30	l9	1268-2		0.206	0.227	-10.2	112	0.00
31	l9	1268-3		0.167	0.169	-1.2	104	0.00
32	l9	1268-4		0.074	0.072	2.7	98	0.00
33	l9	1268-5		0.491	0.496	-1.0	103	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	95	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	94	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.660	1.626	2.0	105	0.00
3	s	Decachlorobiphenyl		1.143	1.595	-39.5#	155#	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   2:33 pm
Operator : pest2:rmp/kb
Sample   : cicv4268,42,, 11350
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:25 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:13 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	101	0.00
24	l6	1242-1		0.023	0.024	-4.3	105	0.00
25	l6	1242-2		0.049	0.053	-8.2	108	0.00
26	l6	1242-3		0.096	0.103	-7.3	108	0.00
27	l6	1242-4		0.041	0.043	-4.9	105	0.00
28	l6	1242-5		0.031	0.033	-6.5	109	0.00
29	l9	1268-1		0.183	0.216	-18.0	119	0.00
30	l9	1268-2		0.167	0.196	-17.4	119	0.00
31	l9	1268-3		0.123	0.132	-7.3	109	0.00
32	l9	1268-4		0.059	0.064	-8.5	110	0.00
33	l9	1268-5		0.405	0.410	-1.2	102	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	100	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	99	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	193.891	0.000 E3	100.0#	0#	-1.60#
5	l1	1016-2	384.456	0.000 E3	100.0#	0#	-1.74#
6	l1	1016-3	0.850	0.000 E6	100.0#	0#	-1.93#
7	l1	1016-4	366.497	0.000 E3	100.0#	0#	-1.98#
8	l1	1016-5	376.016	0.000 E3	100.0#	0#	-2.15#
9	l2	1260-1	543.569	0.000 E3	100.0#	0#	-2.69#
10	l2	1260-2	0.835	0.000 E6	100.0#	0#	-2.82#
11	l2	1260-3	557.818	0.000 E3	100.0#	0#	-3.14#
12	l2	1260-4	1.166	0.000 E6	100.0#	0#	-3.29#
13	l2	1260-5	0.862	0.000 E6	100.0#	0#	-3.44#
15	l3	1221-2	0.00046	0.00000	100.0#	0#	-1.53#
16	l3	1221-3	0.00030	0.00000	100.0#	0#	-1.59#
17	l3	1221-4	0.00120	0.00000	100.0#	0#	-1.60#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   2:33 pm
Operator : pest2:rmp/kb
Sample   : cicv4268,42,, 11350
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:25 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:13 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	l4	1254-1	0.00164	0.00000	100.0#	0#	-2.32#
19	l4	1254-2	0.00300	0.00000	100.0#	0#	-2.43#
20	l4	1254-3	0.00312	0.00000	100.0#	0#	-2.61#
21	l4	1254-4	0.00230	0.00000	100.0#	0#	-2.74#
22	l4	1254-5	0.00335	0.00000	100.0#	0#	-2.96#
35	l7	1248-1	0.00183	0.00000	100.0#	0#	-1.93#
36	l7	1248-2	0.00228	0.00000	100.0#	0#	-2.06#
37	l7	1248-3	0.00211	0.00000	100.0#	0#	-2.15#
38	l7	1248-4	0.00187	0.00000	100.0#	0#	-2.33#
39	l7	1248-5	0.00172	0.00000	100.0#	0#	-2.35#
41	l5	1232-1	0.00094	0.00000	100.0#	0#	-1.60#
42	l5	1232-2	0.00082	0.00000	100.0#	0#	-1.74#
43	l5	1232-3	0.00175	0.00000	100.0#	0#	-1.93#
44	l5	1232-4	0.00074	0.00000	100.0#	0#	-1.98#
45	l5	1232-5	0.00051	0.00000	100.0#	0#	-2.33#
46	l8	1262-1	0.00249	0.00000	100.0#	0#	-2.82#
47	l8	1262-2	0.00319	0.00000	100.0#	0#	-3.01#
48	l8	1262-3	0.00288	0.00000	100.0#	0#	-3.14#
49	l8	1262-4	0.00587	0.00000	100.0#	0#	-3.29#
50	l8	1262-5	0.00196	0.00000	100.0#	0#	-3.77#

Signal #2

4	l1	1016-1	320.376	0.000 E3	100.0#	0#	-1.82#
5	l1	1016-2	710.864	0.000 E3	100.0#	0#	-1.99#
6	l1	1016-3	1.401	0.000 E6	100.0#	0#	-2.19#
7	l1	1016-4	586.280	0.000 E3	100.0#	0#	-2.25#
8	l1	1016-5	461.603	0.000 E3	100.0#	0#	-2.46#
9	l2	1260-1	856.929	0.000 E3	100.0#	0#	-3.08#
10	l2	1260-2	0.997	0.000 E6	100.0#	0#	-3.18#
11	l2	1260-3	838.364	0.000 E3	100.0#	0#	-3.57#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   2:33 pm
Operator : pest2:rmp/kb
Sample   : cicv4268,42,, 11350
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:25 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:13 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	1.649	0.000 E6	100.0#	0#	-3.70#
13 l2	1260-5	1.136	0.000 E6	100.0#	0#	-3.90#
15 l3	1221-2	204.574	0.000 E3	100.0#	0#	-1.74#
16 l3	1221-3	123.046	0.000 E3	100.0#	0#	-1.80#
17 l3	1221-4	440.877	0.000 E3	100.0#	0#	-1.82#
18 l4	1254-1	682.932	0.000 E3	100.0#	0#	-2.66#
19 l4	1254-2	792.588	0.000 E3	100.0#	0#	-2.75#
20 l4	1254-3	1.185	0.000 E6	100.0#	0#	-2.98#
21 l4	1254-4	760.965	0.000 E3	100.0#	0#	-3.09#
22 l4	1254-5	1.068	0.000 E6	100.0#	0#	-3.37#
35 l7	1248-1	683.579	0.000 E3	100.0#	0#	-2.19#
36 l7	1248-2	457.803	0.000 E3	100.0#	0#	-2.34#
37 l7	1248-3	577.728	0.000 E3	100.0#	0#	-2.46#
38 l7	1248-4	621.307	0.000 E3	100.0#	0#	-2.64#
39 l7	1248-5	698.642	0.000 E3	100.0#	0#	-2.66#
41 l5	1232-1	344.238	0.000 E3	100.0#	0#	-1.82#
42 l5	1232-2	343.242	0.000 E3	100.0#	0#	-1.99#
43 l5	1232-3	638.328	0.000 E3	100.0#	0#	-2.19#
44 l5	1232-4	266.077	0.000 E3	100.0#	0#	-2.25#
45 l5	1232-5	183.934	0.000 E3	100.0#	0#	-2.64#
46 l8	1262-1	737.633	0.000 E3	100.0#	0#	-3.17#
47 l8	1262-2	966.585	0.000 E3	100.0#	0#	-3.41#
48 l8	1262-3	919.422	0.000 E3	100.0#	0#	-3.57#
49 l8	1262-4	1.719	0.000 E6	100.0#	0#	-3.70#
50 l8	1262-5	595.983	0.000 E3	100.0#	0#	-4.22#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:33 pm
Operator : pest2:rmp/kb
Sample : cicv4268,42,, 11350
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:25 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:13 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.186	1.256	220.8E6	276.8E6	25.000	25.000
14) i	2154_1br2nb	1.186	1.256	220.8E6	276.8E6	25.000	25.000
23) i	4268_1br2nb	1.186	1.256	220.8E6	276.8E6	25.000	25.000
34) i	1248_1br2nb	1.186	1.256	220.8E6	276.8E6	25.000	25.000
40) i	3262_1br2nb	1.186	1.256	220.8E6	276.8E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.626	212.5E6	288.0E6	15.793M3	15.675
	Spiked Amount	20.000	Range 30 - 150		Recovery =	78.97%	78.38%
3) s	Decachlorobi	4.029	4.551	572.4E6	565.3E6	47.228	44.671
	Spiked Amount	20.000	Range 30 - 150		Recovery =	236.14%#	223.36%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:33 pm
Operator : pest2:rmp/kb
Sample : cicv4268,42,, 11350
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:25 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:13 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	1.603	1.824	46969685	65291932	255.394	259.592
25) l6	1242-2	1.742	1.995	97309074	145.9E6	264.281M3	266.915
26) l6	1242-3	1.930	2.197	212.4E6	286.3E6	256.361	267.954
27) l6	1242-4	1.985	2.256	90340473	117.9E6	255.162M1	261.202
28) l6	1242-5	2.336	2.642	68388587	91587818	252.436	270.317
Sum	1242-1			515.4E6	706.9E6	1283.634	1325.980
Average	1242-1					256.727	265.196
29) l9	1268-1	3.460	3.897	544.4E6	597.0E6	281.436	294.870
30) l9	1268-2	3.481	3.922	500.9E6	542.2E6	274.639	293.962M4
31) l9	1268-3	3.583	4.064	373.6E6	365.7E6	253.807	269.573
32) l9	1268-4	3.770	4.218	158.4E6	177.9E6	241.206	271.829
33) l9	1268-5	3.925	4.404	1094.4E6	1134.2E6	252.235	253.102
Sum	1268-1			2671.8E6	2817.0E6	1303.323	1383.336
Average	1268-1					260.665	276.667
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:33 pm
Operator : pest2:rmp/kb
Sample : cicv4268,42,, 11350
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:25 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:13 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

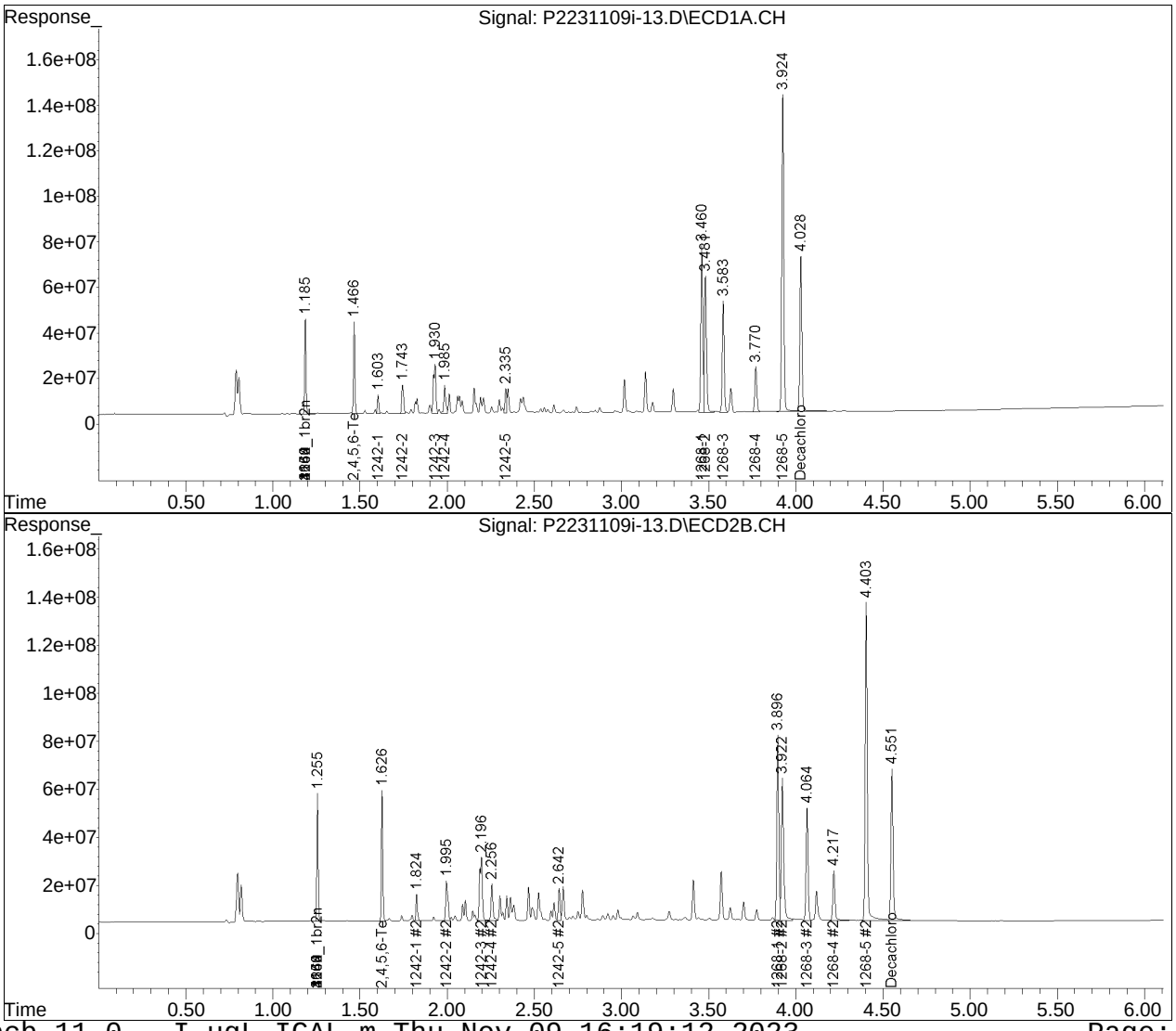
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:33 pm
Operator : pest2:rmp/kb
Sample : cicv4268,42,, 11350
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:25 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:13 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

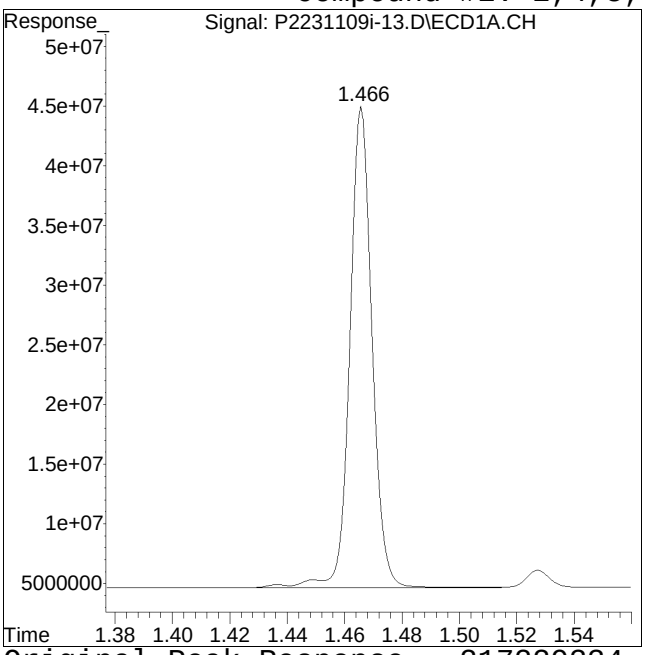
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

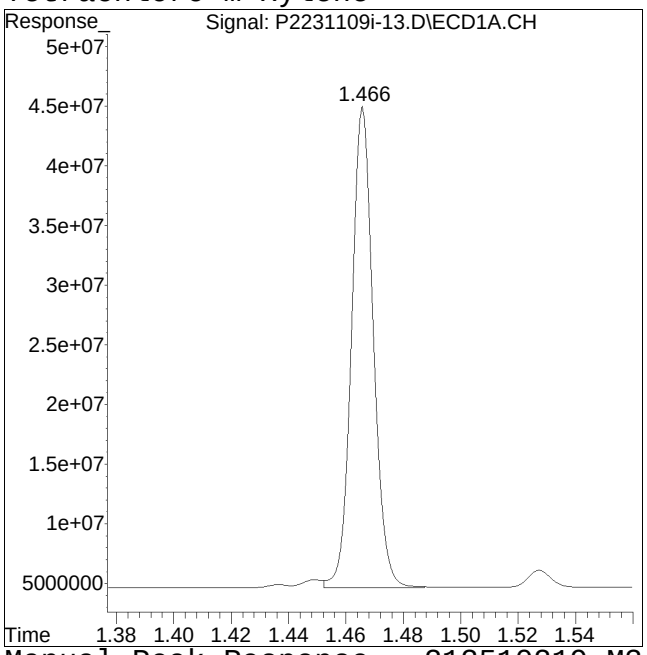


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-13.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:33 pm Instrument : Pest 2
Sample : cicv4268,42,, 11350 Quant Date : 11/9/2023 4:08 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



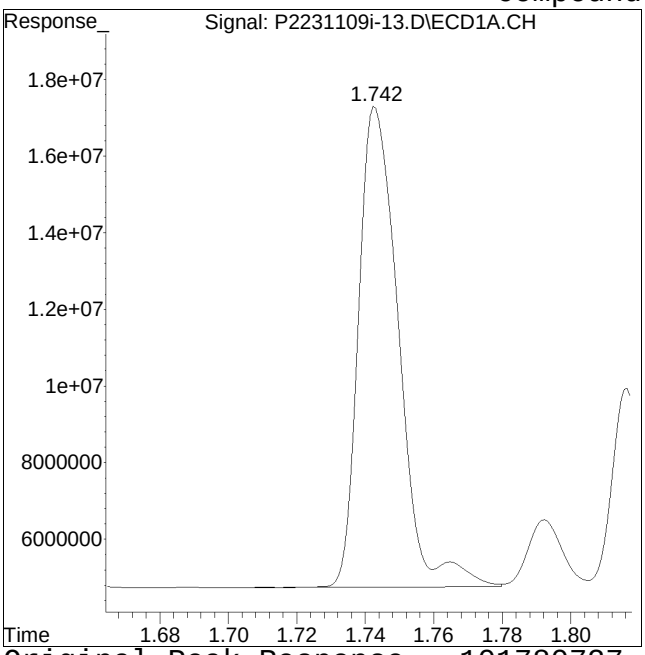


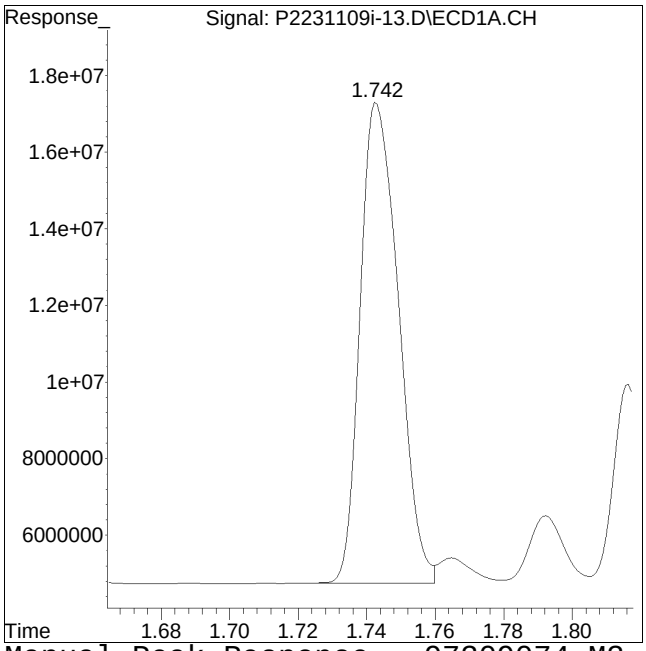
Original Peak Response = 217229334 Manual Peak Response = 212510219 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-13.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:33 pm Instrument : Pest 2
Sample : cicv4268,42,, 11350 Quant Date : 11/9/2023 4:08 pm

Compound #25: 1242-2



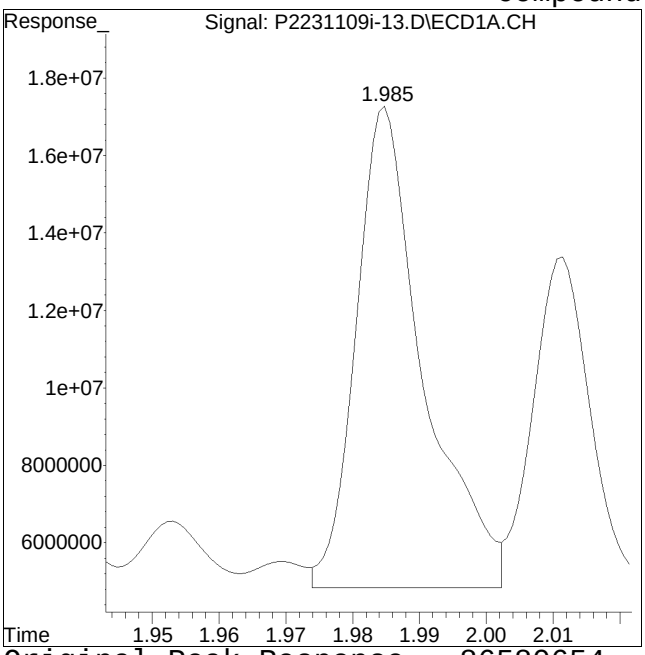


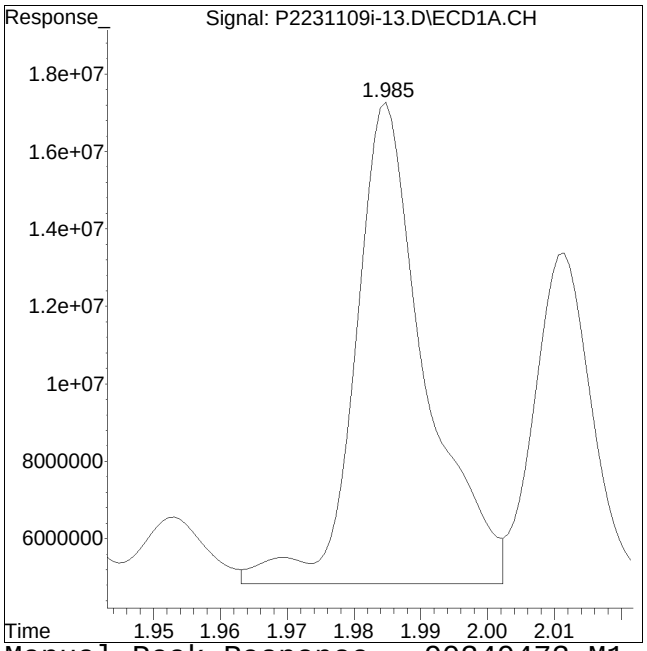
Original Peak Response = 101780727 Manual Peak Response = 97309074 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-13.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:33 pm Instrument : Pest 2
Sample : cicv4268,42,, 11350 Quant Date : 11/9/2023 4:08 pm

Compound #27: 1242-4



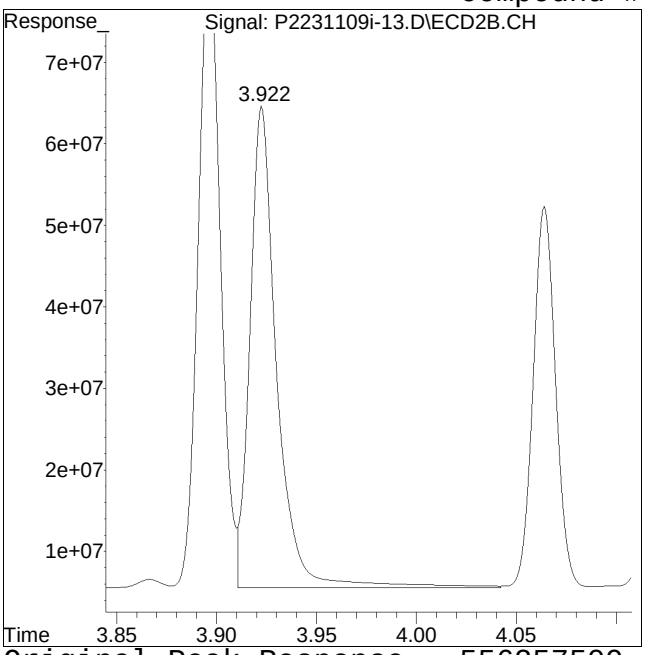


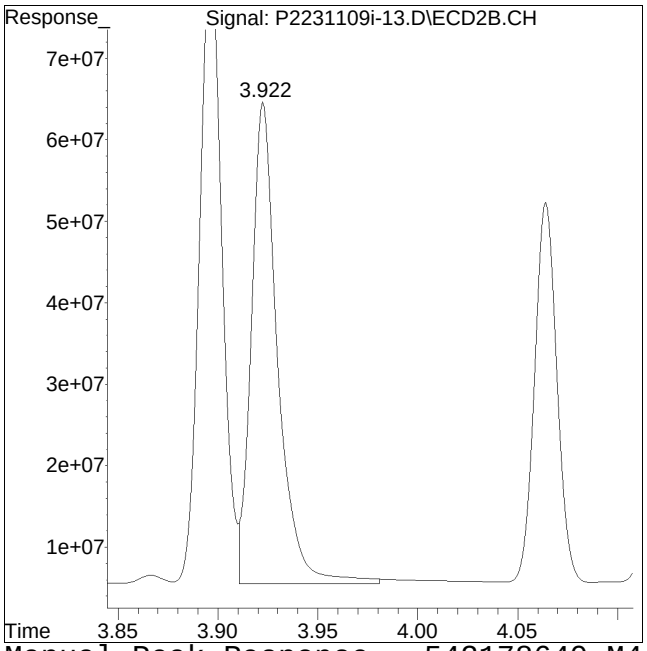
Original Peak Response = 86580654 Manual Peak Response = 90340473 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-13.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:33 pm Instrument : Pest 2
Sample : cicv4268,42,, 11350 Quant Date : 11/9/2023 4:08 pm

Compound #81: 1268-2 #2





Original Peak Response = 556257509 Manual Peak Response = 542178640 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   2:42 pm
Operator : pest2:rmp/kb
Sample   : cicv3262,42,, 11352
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:40 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:30 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	103	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.524	1.481	2.8	102	0.00
3	s	Decachlorobiphenyl		1.372	1.306	4.8	100	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	100	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	102	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	95	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	94	0.00
41	l5	1232-1		0.028	0.030	-7.1	102	0.00
42	l5	1232-2		0.024	0.024	0.0	93	0.00
43	l5	1232-3		0.052	0.051	1.9	92	0.00
44	l5	1232-4		0.022	0.022	0.0	94	0.00
45	l5	1232-5		0.015	0.015	0.0	94	0.00
46	l8	1262-1		0.074	0.075	-1.4	95	0.00
47	l8	1262-2		0.094	0.097	-3.2	96	0.00
48	l8	1262-3		0.085	0.089	-4.7	98	0.00
49	l8	1262-4		0.174	0.177	-1.7	96	0.00
50	l8	1262-5		0.058	0.059	-1.7	95	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	105	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.660	1.581	4.8	107	0.00
3	s	Decachlorobiphenyl		1.143	1.103	3.5	112	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   2:42 pm
Operator : pest2:rmp/kb
Sample   : cicv3262,42,, 11352
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:40 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:30 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	^	1.000	1.000	0.0	105	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	105	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	104	0.00
41	l5	1232-1		0.031	0.033	-6.5	110	0.00
42	l5	1232-2		0.031	0.031	0.0	104	0.00
43	l5	1232-3		0.057	0.057	0.0	104	0.00
44	l5	1232-4		0.024	0.025	-4.2	107	0.00
45	l5	1232-5		0.017	0.017	0.0	109	0.00
46	l8	1262-1		0.066	0.064	3.0	101	0.00
47	l8	1262-2		0.087	0.085	2.3	102	0.00
48	l8	1262-3		0.083	0.080	3.6	101	0.00
49	l8	1262-4		0.154	0.149	3.2	101	0.00
50	l8	1262-5		0.053	0.054	-1.9	105	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	193.891	0.000	E3	100.0#	0#	-1.60#
5	l1	1016-2	384.456	0.000	E3	100.0#	0#	-1.74#
6	l1	1016-3	0.850	0.000	E6	100.0#	0#	-1.93#
7	l1	1016-4	366.497	0.000	E3	100.0#	0#	-1.98#
8	l1	1016-5	376.016	0.000	E3	100.0#	0#	-2.15#
9	l2	1260-1	543.569	0.000	E3	100.0#	0#	-2.69#
10	l2	1260-2	0.835	0.000	E6	100.0#	0#	-2.82#
11	l2	1260-3	557.818	0.000	E3	100.0#	0#	-3.14#
12	l2	1260-4	1.166	0.000	E6	100.0#	0#	-3.29#
13	l2	1260-5	0.862	0.000	E6	100.0#	0#	-3.44#
15	l3	1221-2	0.00046	0.00000		100.0#	0#	-1.53#
16	l3	1221-3	0.00030	0.00000		100.0#	0#	-1.59#
17	l3	1221-4	0.00120	0.00000		100.0#	0#	-1.60#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   2:42 pm
Operator : pest2:rmp/kb
Sample   : cicv3262,42,, 11352
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:40 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:30 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	0.00164	0.00000	100.0#	0#	-2.32#
19 l4	1254-2	0.00300	0.00000	100.0#	0#	-2.43#
20 l4	1254-3	0.00312	0.00000	100.0#	0#	-2.61#
21 l4	1254-4	0.00230	0.00000	100.0#	0#	-2.74#
22 l4	1254-5	0.00335	0.00000	100.0#	0#	-2.96#
24 l6	1242-1	0.00065	0.00000	100.0#	0#	-1.60#
25 l6	1242-2	0.00130	0.00000	100.0#	0#	-1.74#
26 l6	1242-3	0.00292	0.00000	100.0#	0#	-1.93#
27 l6	1242-4	0.00125	0.00000	100.0#	0#	-1.98#
28 l6	1242-5	0.00095	0.00000	100.0#	0#	-2.33#
29 l9	1268-1	0.00681	0.00000	100.0#	0#	-3.46#
30 l9	1268-2	0.00642	0.00000	100.0#	0#	-3.48#
31 l9	1268-3	0.00518	0.00000	100.0#	0#	-3.58#
32 l9	1268-4	0.00231	0.00000	100.0#	0#	-3.77#
33 l9	1268-5	0.015	0.000	100.0#	0#	-3.92#
35 l7	1248-1	0.00183	0.00000	100.0#	0#	-1.93#
36 l7	1248-2	0.00228	0.00000	100.0#	0#	-2.06#
37 l7	1248-3	0.00211	0.00000	100.0#	0#	-2.15#
38 l7	1248-4	0.00187	0.00000	100.0#	0#	-2.33#
39 l7	1248-5	0.00172	0.00000	100.0#	0#	-2.35#

Signal #2

4 l1	1016-1	320.376	0.000 E3	100.0#	0#	-1.82#
5 l1	1016-2	710.864	0.000 E3	100.0#	0#	-1.99#
6 l1	1016-3	1.401	0.000 E6	100.0#	0#	-2.19#
7 l1	1016-4	586.280	0.000 E3	100.0#	0#	-2.25#
8 l1	1016-5	461.603	0.000 E3	100.0#	0#	-2.46#
9 l2	1260-1	856.929	0.000 E3	100.0#	0#	-3.08#
10 l2	1260-2	0.997	0.000 E6	100.0#	0#	-3.18#
11 l2	1260-3	838.364	0.000 E3	100.0#	0#	-3.57#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   2:42 pm
Operator : pest2:rmp/kb
Sample   : cicv3262,42,, 11352
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:40 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:30 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
12 l2	1260-4	1.649	0.000 E6	100.0#	0#	-3.70#
13 l2	1260-5	1.136	0.000 E6	100.0#	0#	-3.90#
15 l3	1221-2	204.574	0.000 E3	100.0#	0#	-1.74#
16 l3	1221-3	123.046	0.000 E3	100.0#	0#	-1.80#
17 l3	1221-4	440.877	0.000 E3	100.0#	0#	-1.82#
18 l4	1254-1	682.932	0.000 E3	100.0#	0#	-2.66#
19 l4	1254-2	792.588	0.000 E3	100.0#	0#	-2.75#
20 l4	1254-3	1.185	0.000 E6	100.0#	0#	-2.98#
21 l4	1254-4	760.965	0.000 E3	100.0#	0#	-3.09#
22 l4	1254-5	1.068	0.000 E6	100.0#	0#	-3.37#
24 l6	1242-1	249.289	0.000 E3	100.0#	0#	-1.82#
25 l6	1242-2	541.670	0.000 E3	100.0#	0#	-1.99#
26 l6	1242-3	1.059	0.000 E6	100.0#	0#	-2.19#
27 l6	1242-4	447.273	0.000 E3	100.0#	0#	-2.25#
28 l6	1242-5	335.813	0.000 E3	100.0#	0#	-2.64#
29 l9	1268-1	2.007	0.000 E6	100.0#	0#	-3.89#
30 l9	1268-2	1.828	0.000 E6	100.0#	0#	-3.92#
31 l9	1268-3	1.344	0.000 E6	100.0#	0#	-4.06#
32 l9	1268-4	648.615	0.000 E3	100.0#	0#	-4.21#
33 l9	1268-5	4.442	0.000 E6	100.0#	0#	-4.40#
35 l7	1248-1	683.579	0.000 E3	100.0#	0#	-2.19#
36 l7	1248-2	457.803	0.000 E3	100.0#	0#	-2.34#
37 l7	1248-3	577.728	0.000 E3	100.0#	0#	-2.46#
38 l7	1248-4	621.307	0.000 E3	100.0#	0#	-2.64#
39 l7	1248-5	698.642	0.000 E3	100.0#	0#	-2.66#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:42 pm
Operator : pest2:rmp/kb
Sample : cicv3262,42,, 11352
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:40 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.187	1.256	220.3E6	289.1E6	25.000	25.000
14) i	2154_1br2nb	1.187	1.256	220.3E6	289.1E6	25.000	25.000
23) i	4268_1br2nb	1.187	1.256	220.3E6	289.1E6	25.000	25.000
34) i	1248_1br2nb	1.187	1.256	220.3E6	289.1E6	25.000	25.000
40) i	3262_1br2nb	1.187	1.256	220.3E6	289.1E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.467	1.627	208.8E6	292.5E6	15.549M3	15.241
	Spiked Amount 20.000	Range 30 - 150		Recovery =		77.75%	76.20%
3) s	Decachlorobi	4.030	4.553	368.3E6	407.9E6	30.463	30.870
	Spiked Amount 20.000	Range 30 - 150		Recovery =		152.32%#	154.35%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:42 pm
Operator : pest2:rmp/kb
Sample : cicv3262,42,, 11352
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:40 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:42 pm
Operator : pest2:rmp/kb
Sample : cicv3262,42,, 11352
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:40 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	1.604	1.825	66730301	94508506	273.303	264.582
42) l5	1232-2	1.744	1.996	53142835	89176607	247.723	250.379
43) l5	1232-3	1.932	2.197	111.6E6	165.2E6	244.619	249.392
44) l5	1232-4	1.986	2.257	48203175	70986954	250.179M1	257.110
45) l5	1232-5	2.337	2.643	33428077	49948780	250.447	261.704
Sum	1232-1			313.1E6	469.8E6	1266.270	1283.166
Average	1232-1					253.254	256.633
46) l8	1262-1	2.826	3.179	164.6E6	185.8E6	253.122	242.781M4
47) l8	1262-2	3.018	3.413	213.7E6	246.9E6	257.257	246.130M3
48) l8	1262-3	3.141	3.571	197.0E6	232.2E6	262.342	243.346M4
49) l8	1262-4	3.297	3.702	390.5E6	432.0E6	255.399	242.271M4
50) l8	1262-5	3.772	4.219	130.3E6	156.0E6	255.083	252.218M4
Sum	1262-1			1096.2E6	1252.9E6	1283.203	1226.745
Average	1262-1					256.641	245.349

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1096.2E6	1252.9E6	1283.203	1226.745
Average	1262-1					256.641	245.349

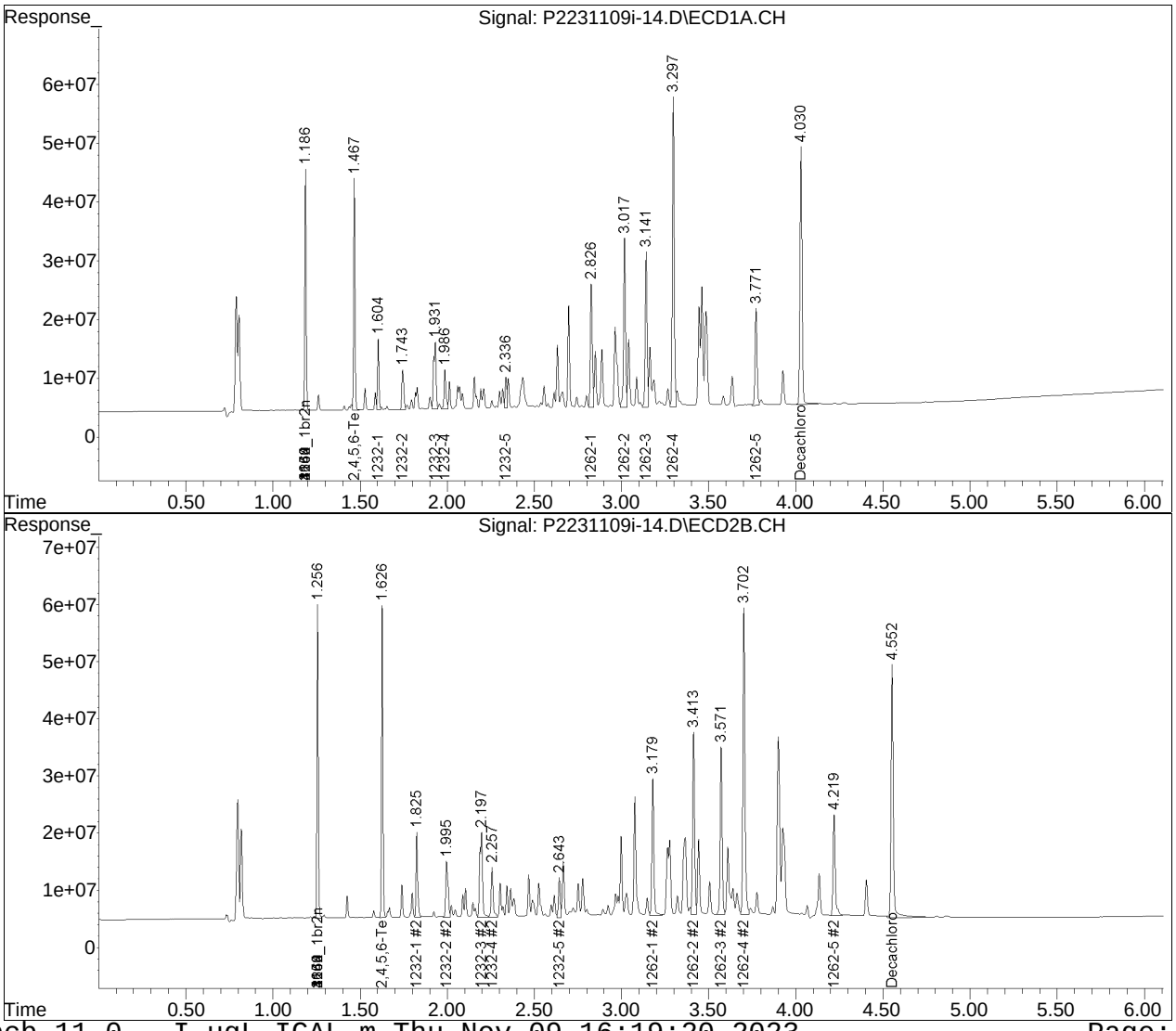
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:42 pm
Operator : pest2:rmp/kb
Sample : cicv3262,42,, 11352
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:40 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

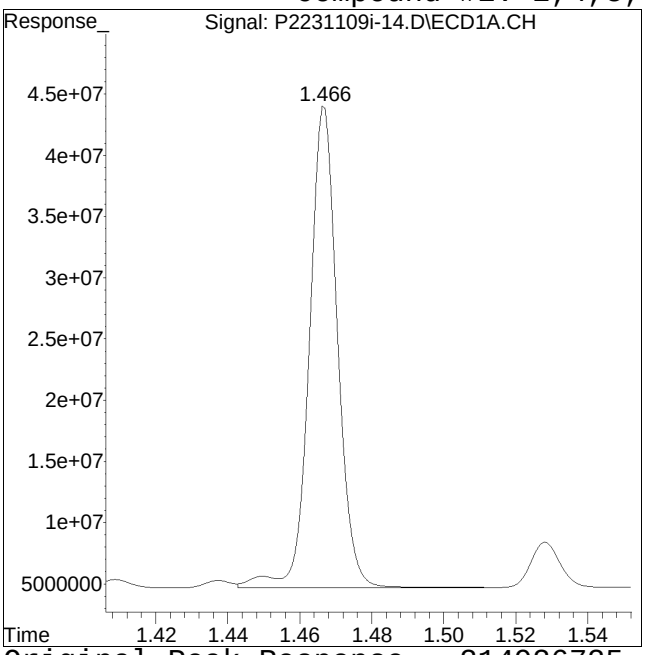
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

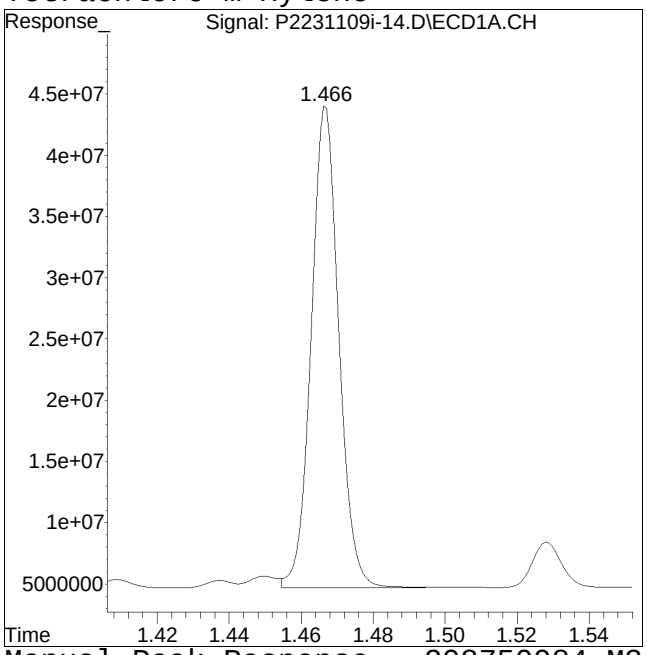


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-14.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:42 pm Instrument : Pest 2
Sample : cicv3262,42,, 11352 Quant Date : 11/9/2023 4:08 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



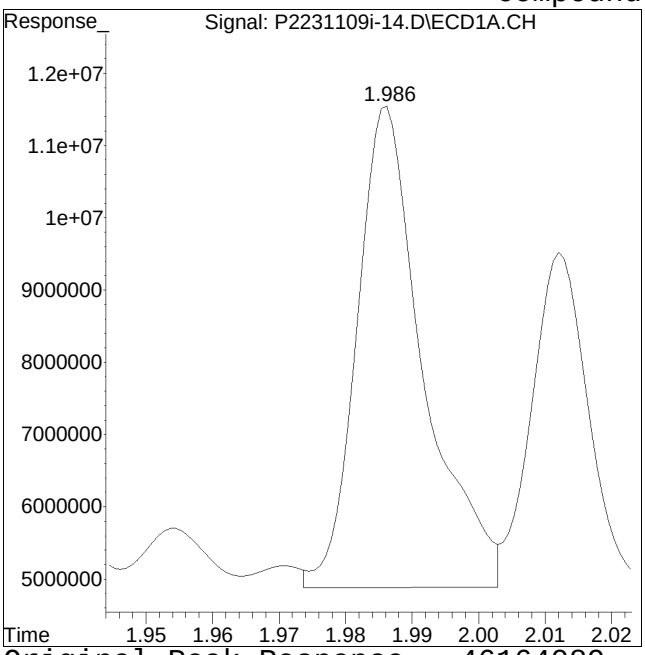


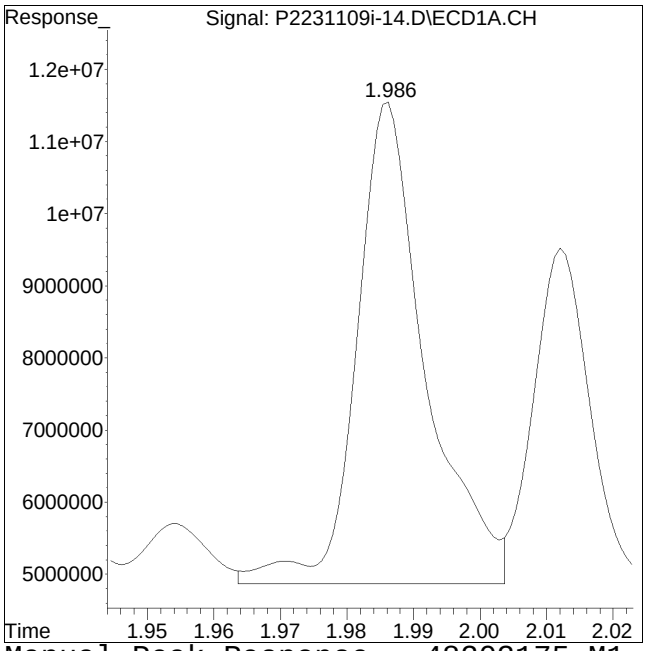
Original Peak Response = 214926725 Manual Peak Response = 208750984 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-14.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:42 pm Instrument : Pest 2
Sample : cicv3262,42,, 11352 Quant Date : 11/9/2023 4:08 pm

Compound #44: 1232-4



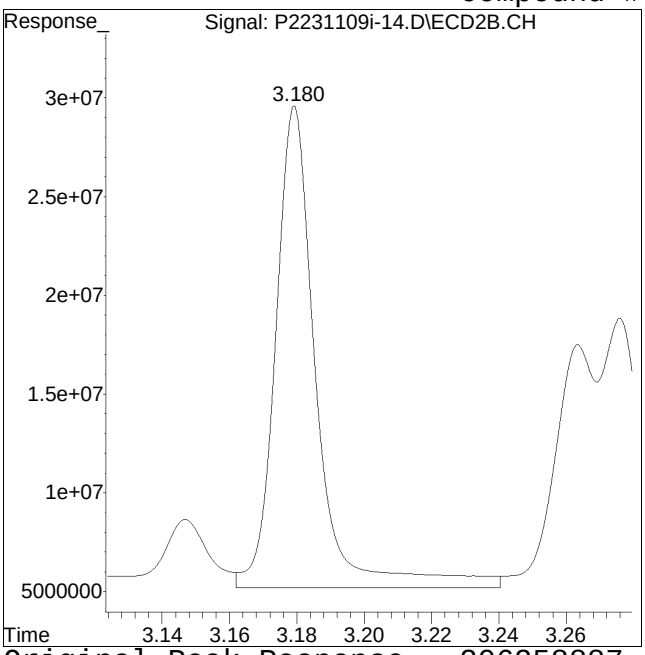


Original Peak Response = 46164089 Manual Peak Response = 48203175 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

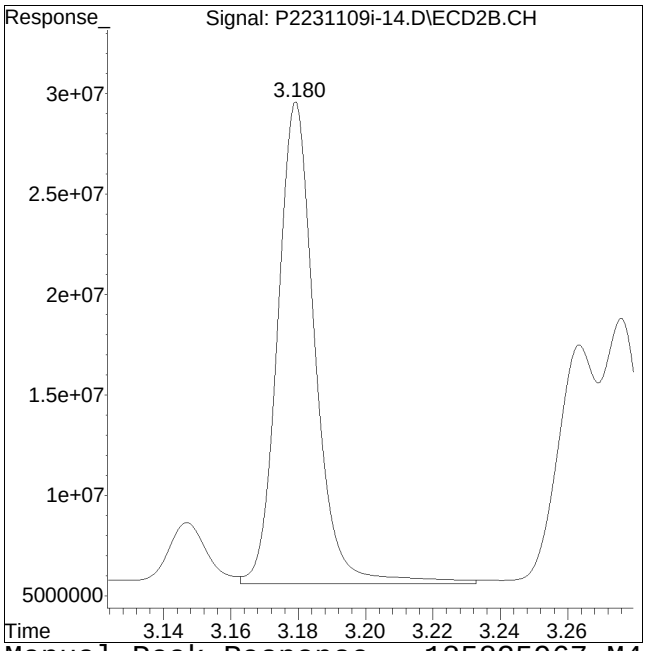
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-14.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:42 pm Instrument : Pest 2
Sample : cicv3262,42,, 11352 Quant Date : 11/9/2023 4:08 pm

Compound #97: 1262-1 #2



Original Peak Response = 206258887



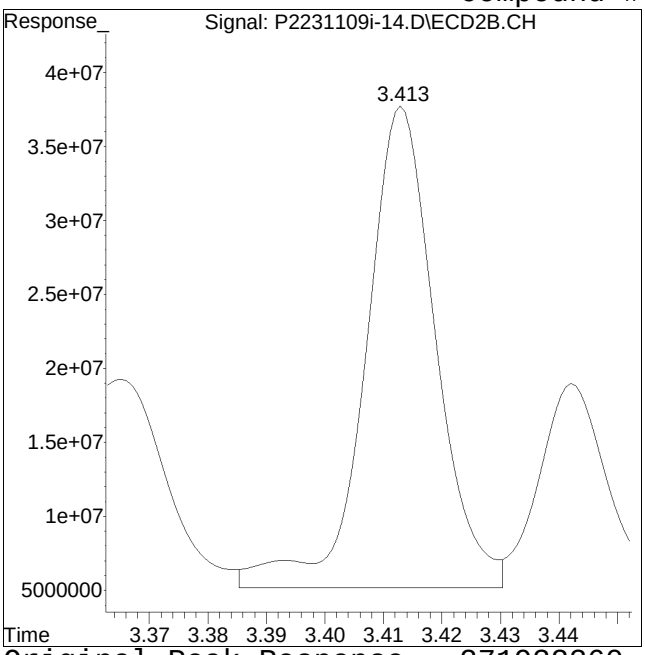
Manual Peak Response = 185825967 M4

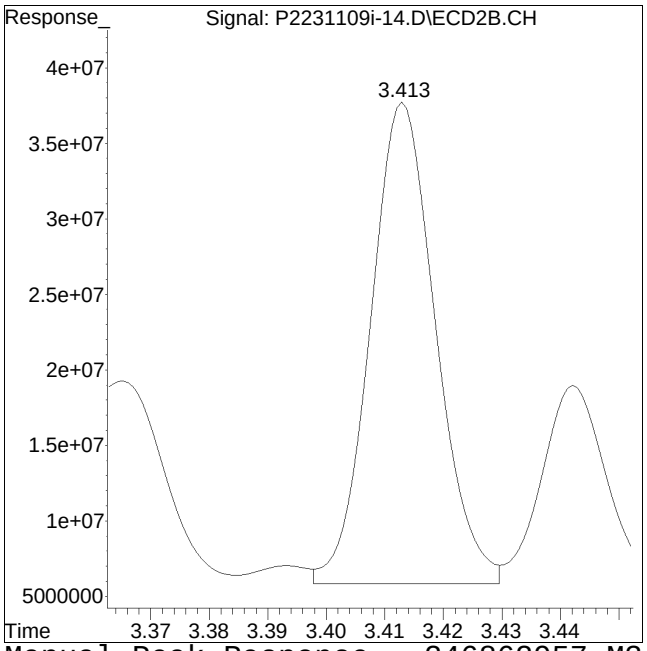
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-14.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:42 pm Instrument : Pest 2
Sample : cicv3262,42,, 11352 Quant Date : 11/9/2023 4:08 pm

Compound #98: 1262-2 #2



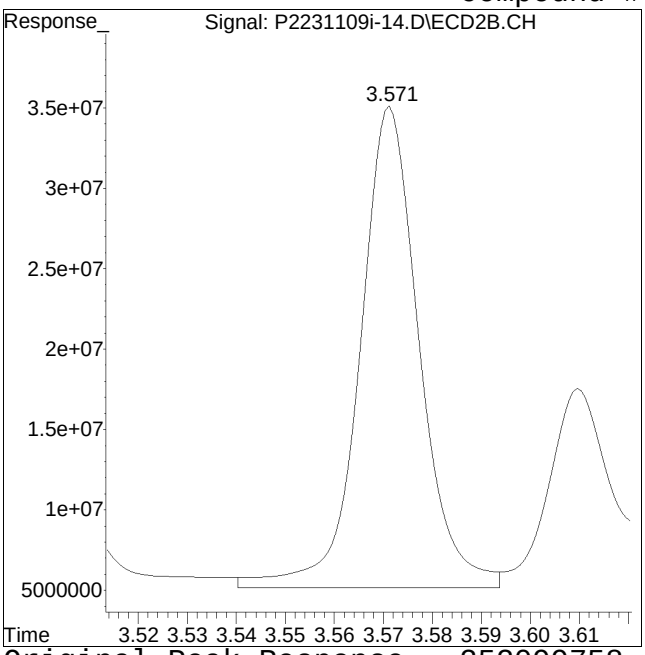


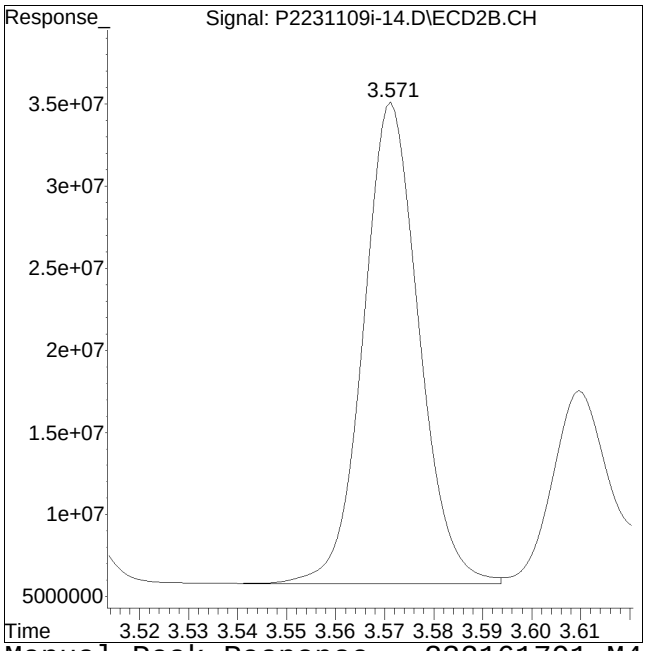
Original Peak Response = 271932360 Manual Peak Response = 246862957 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-14.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:42 pm Instrument : Pest 2
Sample : cicv3262,42,, 11352 Quant Date : 11/9/2023 4:08 pm

Compound #99: 1262-3 #2



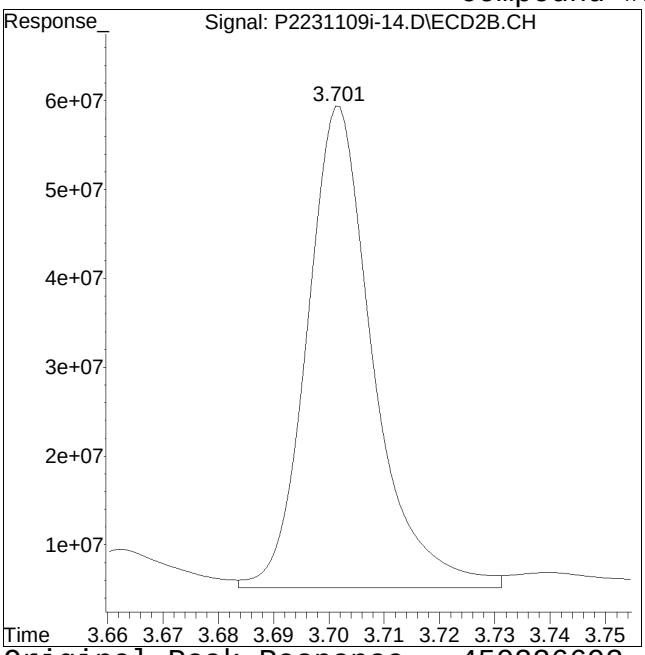


Original Peak Response = 252099758 Manual Peak Response = 232161791 M4
M4 = Poor automated baseline construction.

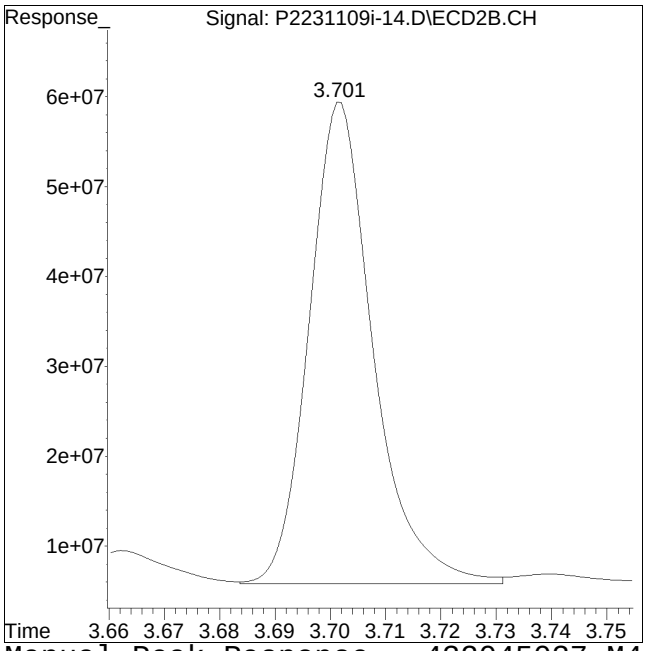
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-14.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:42 pm Instrument : Pest 2
Sample : cicv3262,42,, 11352 Quant Date : 11/9/2023 4:08 pm

Compound #100: 1262-4 #2



Original Peak Response = 450226693



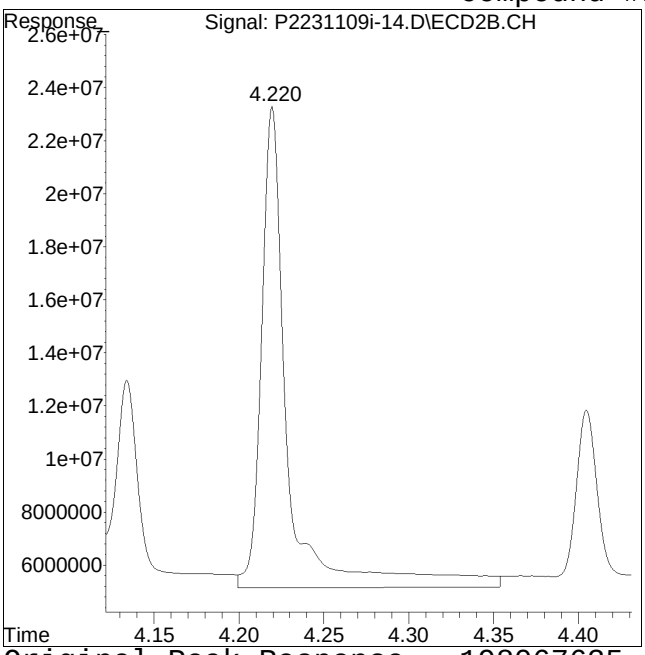
Manual Peak Response = 432045037 M4

M4 = Poor automated baseline construction.

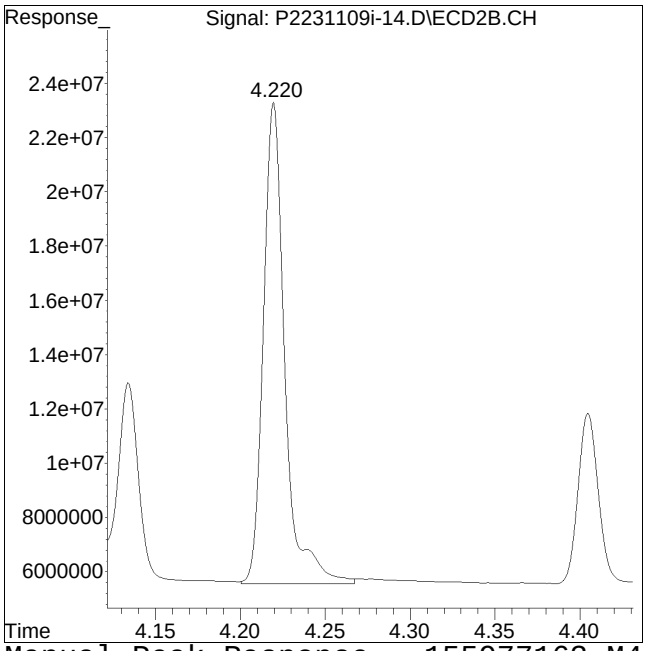
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-14.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:42 pm Instrument : Pest 2
Sample : cicv3262,42,, 11352 Quant Date : 11/9/2023 4:08 pm

Compound #101: 1262-5 #2



Original Peak Response = 198067635



Manual Peak Response = 155977163 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   2:51 pm
Operator : pest2:rmp/kb
Sample   : cicv1248,42,, 11351
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:57 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:45 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	104	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.524	1.474	3.3	102	0.00
3	s	Decachlorobiphenyl		1.372	1.262	8.0	97	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	101	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	103	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
35	l7	1248-1		0.055	0.065	-18.2	114	0.00
36	l7	1248-2		0.068	0.069	-1.5	97	0.00
37	l7	1248-3		0.063	0.064	-1.6	97	0.00
38	l7	1248-4		0.056	0.057	-1.8	97	0.00
39	l7	1248-5		0.052	0.058	-11.5	108	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.660	1.592	4.1	103	0.00
3	s	Decachlorobiphenyl		1.143	1.056	7.6	103	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	101	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	101	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	100	0.00
35	l7	1248-1		0.062	0.073	-17.7	118	0.01
36	l7	1248-2		0.041	0.041	0.0	99	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   2:51 pm
Operator : pest2:rmp/kb
Sample   : cicv1248,42,, 11351
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:57 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:45 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF		%Dev	Area%	Dev(Min)
37	l7	1248-3		0.052	0.052		0.0	99	0.00
38	l7	1248-4		0.056	0.058		-3.6	103	0.00
39	l7	1248-5		0.063	0.069		-9.5	110	0.00
40	i	3262_1br2nb	^	1.000	1.000		0.0	99	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		193.891	0.000	E3	100.0#	0#	-1.60#
5	l1	1016-2		384.456	0.000	E3	100.0#	0#	-1.74#
6	l1	1016-3		0.850	0.000	E6	100.0#	0#	-1.93#
7	l1	1016-4		366.497	0.000	E3	100.0#	0#	-1.98#
8	l1	1016-5		376.016	0.000	E3	100.0#	0#	-2.15#
9	l2	1260-1		543.569	0.000	E3	100.0#	0#	-2.69#
10	l2	1260-2		0.835	0.000	E6	100.0#	0#	-2.82#
11	l2	1260-3		557.818	0.000	E3	100.0#	0#	-3.14#
12	l2	1260-4		1.166	0.000	E6	100.0#	0#	-3.29#
13	l2	1260-5		0.862	0.000	E6	100.0#	0#	-3.44#
15	l3	1221-2		0.00046	0.00000		100.0#	0#	-1.53#
16	l3	1221-3		0.00030	0.00000		100.0#	0#	-1.59#
17	l3	1221-4		0.00120	0.00000		100.0#	0#	-1.60#
18	l4	1254-1		0.00164	0.00000		100.0#	0#	-2.32#
19	l4	1254-2		0.00300	0.00000		100.0#	0#	-2.43#
20	l4	1254-3		0.00312	0.00000		100.0#	0#	-2.61#
21	l4	1254-4		0.00230	0.00000		100.0#	0#	-2.74#
22	l4	1254-5		0.00335	0.00000		100.0#	0#	-2.96#
24	l6	1242-1		0.00065	0.00000		100.0#	0#	-1.60#
25	l6	1242-2		0.00130	0.00000		100.0#	0#	-1.74#
26	l6	1242-3		0.00292	0.00000		100.0#	0#	-1.93#
27	l6	1242-4		0.00125	0.00000		100.0#	0#	-1.98#
28	l6	1242-5		0.00095	0.00000		100.0#	0#	-2.33#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   2:51 pm
Operator : pest2:rmp/kb
Sample   : cicv1248,42,, 11351
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:57 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:45 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29 l9	1268-1	0.00681	0.00000	100.0#	0#	-3.46#
30 l9	1268-2	0.00642	0.00000	100.0#	0#	-3.48#
31 l9	1268-3	0.00518	0.00000	100.0#	0#	-3.58#
32 l9	1268-4	0.00231	0.00000	100.0#	0#	-3.77#
33 l9	1268-5	0.015	0.000	100.0#	0#	-3.92#
41 l5	1232-1	0.00094	0.00000	100.0#	0#	-1.60#
42 l5	1232-2	0.00082	0.00000	100.0#	0#	-1.74#
43 l5	1232-3	0.00175	0.00000	100.0#	0#	-1.93#
44 l5	1232-4	0.00074	0.00000	100.0#	0#	-1.98#
45 l5	1232-5	0.00051	0.00000	100.0#	0#	-2.33#
46 l8	1262-1	0.00249	0.00000	100.0#	0#	-2.82#
47 l8	1262-2	0.00319	0.00000	100.0#	0#	-3.01#
48 l8	1262-3	0.00288	0.00000	100.0#	0#	-3.14#
49 l8	1262-4	0.00587	0.00000	100.0#	0#	-3.29#
50 l8	1262-5	0.00196	0.00000	100.0#	0#	-3.77#
Signal #2						
4 l1	1016-1	320.376	0.000 E3	100.0#	0#	-1.82#
5 l1	1016-2	710.864	0.000 E3	100.0#	0#	-1.99#
6 l1	1016-3	1.401	0.000 E6	100.0#	0#	-2.19#
7 l1	1016-4	586.280	0.000 E3	100.0#	0#	-2.25#
8 l1	1016-5	461.603	0.000 E3	100.0#	0#	-2.46#
9 l2	1260-1	856.929	0.000 E3	100.0#	0#	-3.08#
10 l2	1260-2	0.997	0.000 E6	100.0#	0#	-3.18#
11 l2	1260-3	838.364	0.000 E3	100.0#	0#	-3.57#
12 l2	1260-4	1.649	0.000 E6	100.0#	0#	-3.70#
13 l2	1260-5	1.136	0.000 E6	100.0#	0#	-3.90#
15 l3	1221-2	204.574	0.000 E3	100.0#	0#	-1.74#
16 l3	1221-3	123.046	0.000 E3	100.0#	0#	-1.80#
17 l3	1221-4	440.877	0.000 E3	100.0#	0#	-1.82#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   2:51 pm
Operator : pest2:rmp/kb
Sample   : cicv1248,42,, 11351
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:57 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:45 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18 l4	1254-1	682.932	0.000 E3	100.0#	0#	-2.66#
19 l4	1254-2	792.588	0.000 E3	100.0#	0#	-2.75#
20 l4	1254-3	1.185	0.000 E6	100.0#	0#	-2.98#
21 l4	1254-4	760.965	0.000 E3	100.0#	0#	-3.09#
22 l4	1254-5	1.068	0.000 E6	100.0#	0#	-3.37#
24 l6	1242-1	249.289	0.000 E3	100.0#	0#	-1.82#
25 l6	1242-2	541.670	0.000 E3	100.0#	0#	-1.99#
26 l6	1242-3	1.059	0.000 E6	100.0#	0#	-2.19#
27 l6	1242-4	447.273	0.000 E3	100.0#	0#	-2.25#
28 l6	1242-5	335.813	0.000 E3	100.0#	0#	-2.64#
29 l9	1268-1	2.007	0.000 E6	100.0#	0#	-3.89#
30 l9	1268-2	1.828	0.000 E6	100.0#	0#	-3.92#
31 l9	1268-3	1.344	0.000 E6	100.0#	0#	-4.06#
32 l9	1268-4	648.615	0.000 E3	100.0#	0#	-4.21#
33 l9	1268-5	4.442	0.000 E6	100.0#	0#	-4.40#
41 l5	1232-1	344.238	0.000 E3	100.0#	0#	-1.82#
42 l5	1232-2	343.242	0.000 E3	100.0#	0#	-1.99#
43 l5	1232-3	638.328	0.000 E3	100.0#	0#	-2.19#
44 l5	1232-4	266.077	0.000 E3	100.0#	0#	-2.25#
45 l5	1232-5	183.934	0.000 E3	100.0#	0#	-2.64#
46 l8	1262-1	737.633	0.000 E3	100.0#	0#	-3.17#
47 l8	1262-2	966.585	0.000 E3	100.0#	0#	-3.41#
48 l8	1262-3	919.422	0.000 E3	100.0#	0#	-3.57#
49 l8	1262-4	1.719	0.000 E6	100.0#	0#	-3.70#
50 l8	1262-5	595.983	0.000 E3	100.0#	0#	-4.22#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:51 pm
Operator : pest2:rmp/kb
Sample : cicv1248,42,, 11351
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:57 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:45 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.187	1.256	222.5E6	276.9E6	25.000	25.000
14) i	2154_1br2nb	1.187	1.256	222.5E6	276.9E6	25.000	25.000
23) i	4268_1br2nb	1.187	1.256	222.5E6	276.9E6	25.000	25.000
34) i	1248_1br2nb	1.187	1.256	222.5E6	276.9E6	25.000	25.000
40) i	3262_1br2nb	1.187	1.256	222.5E6	276.9E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.467	1.627	209.9E6	282.2E6	15.483	15.349M4
	Spiked Amount	20.000	Range 30 - 150		Recovery =	77.42%	76.74%
3) s	Decachlorobi	4.030	4.553	359.5E6	374.3E6	29.439M4	29.565
	Spiked Amount	20.000	Range 30 - 150		Recovery =	147.20%	147.83%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:51 pm
Operator : pest2:rmp/kb
Sample : cicv1248,42,, 11351
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:57 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:45 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	1.931	2.196	145.5E6	201.5E6	298.843	294.370
36) l7	1248-2	2.060	2.343	154.4E6	113.1E6	253.624M1	246.661
37) l7	1248-3	2.156	2.468	142.0E6	143.0E6	252.853	247.202
38) l7	1248-4	2.337	2.643	126.9E6	159.9E6	254.057	257.059
39) l7	1248-5	2.350	2.666	130.1E6	192.2E6	283.238	274.792
Sum	1248-1			698.8E6	809.8E6	1342.614	1320.084

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:51 pm
Operator : pest2:rmp/kb
Sample : cicv1248,42,, 11351
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:57 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:45 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					268.523	264.017
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

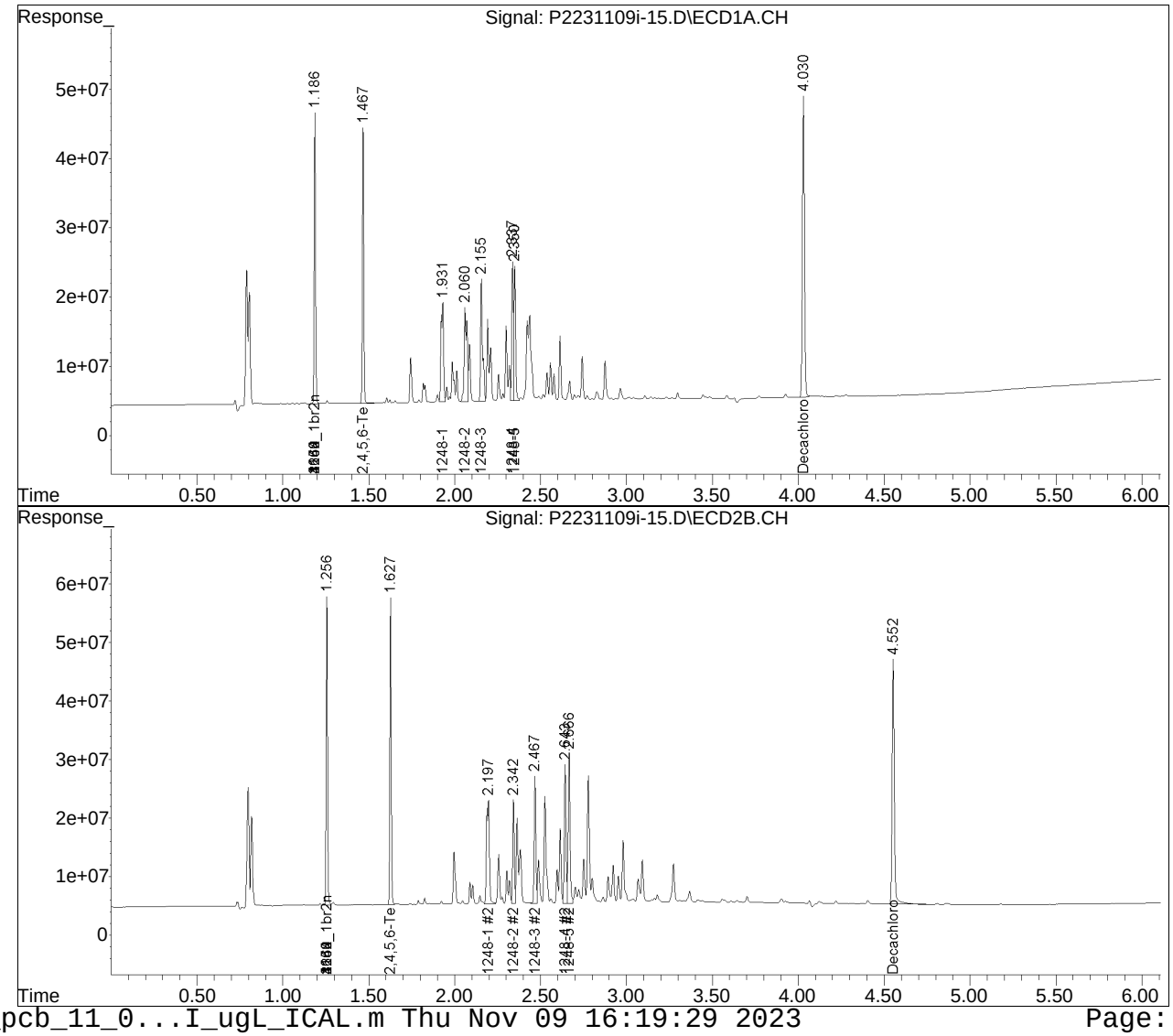
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 2:51 pm
Operator : pest2:rmp/kb
Sample : cicv1248,42,, 11351
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:08:57 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:08:45 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

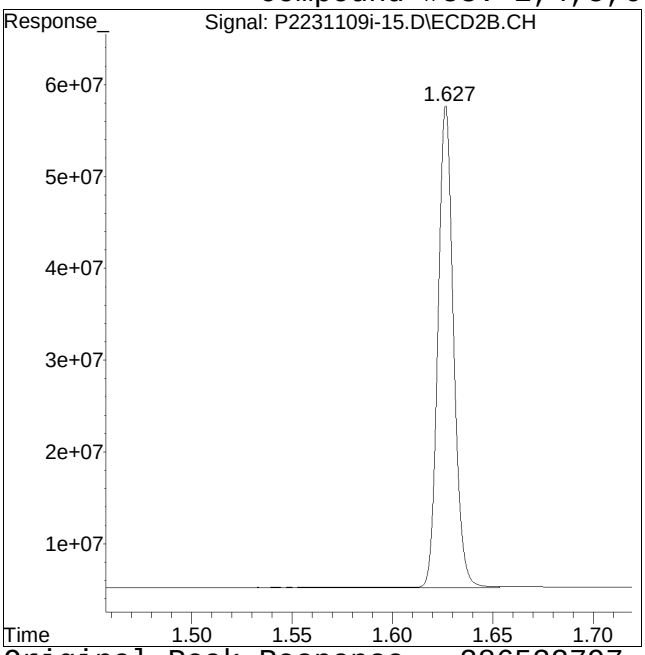
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

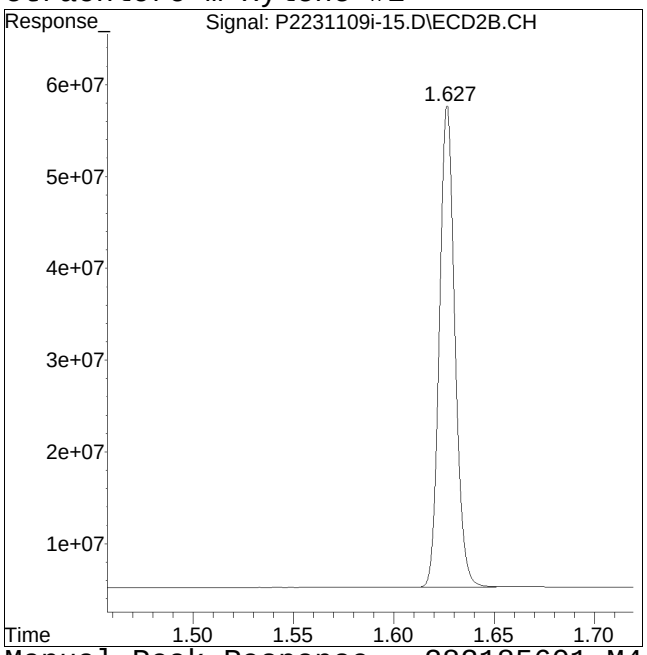


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-15.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:51 pm Instrument : Pest 2
Sample : cicv1248,42,, 11351 Quant Date : 11/9/2023 4:08 pm

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



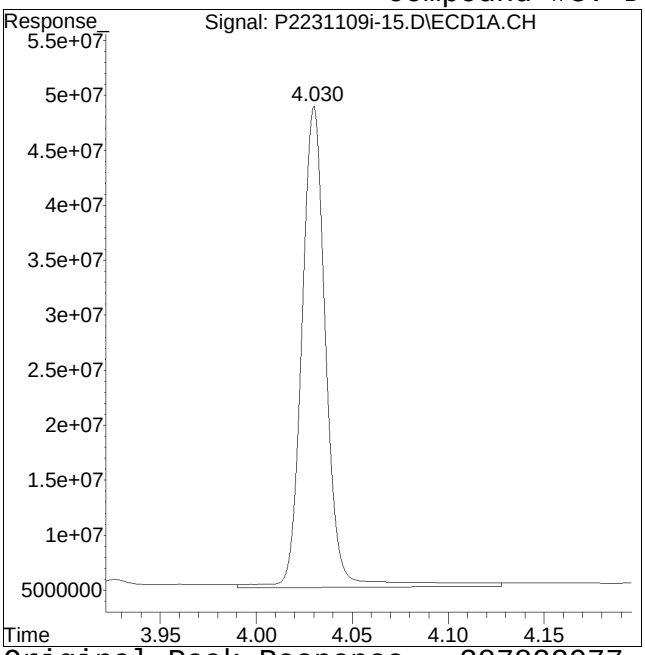


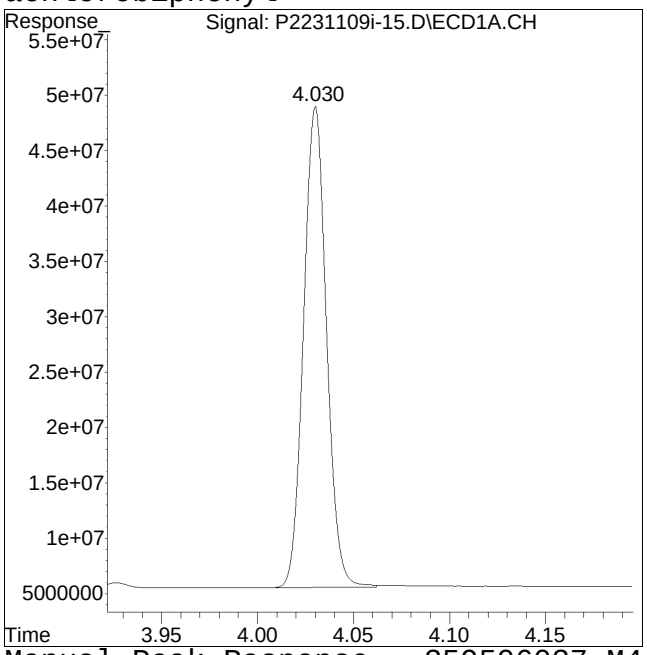
Original Peak Response = 286532797 Manual Peak Response = 282185601 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-15.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:51 pm Instrument : Pest 2
Sample : cicv1248,42,, 11351 Quant Date : 11/9/2023 4:08 pm

Compound #3: Decachlorobiphenyl



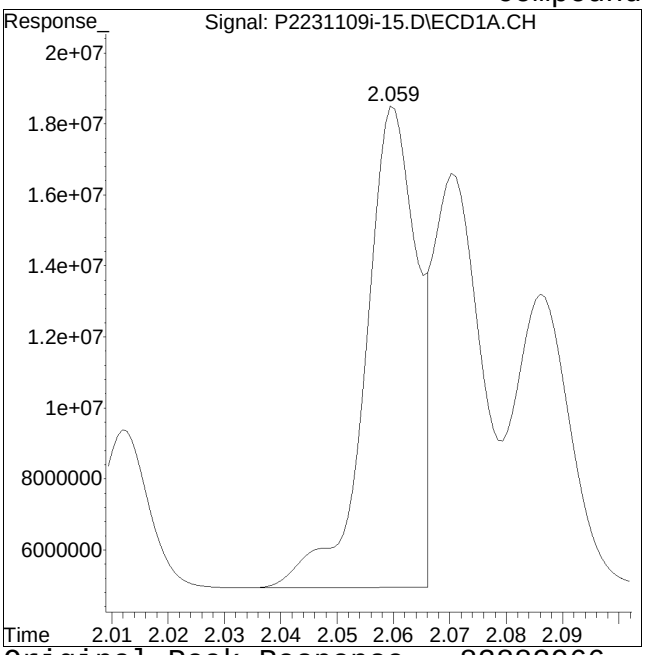


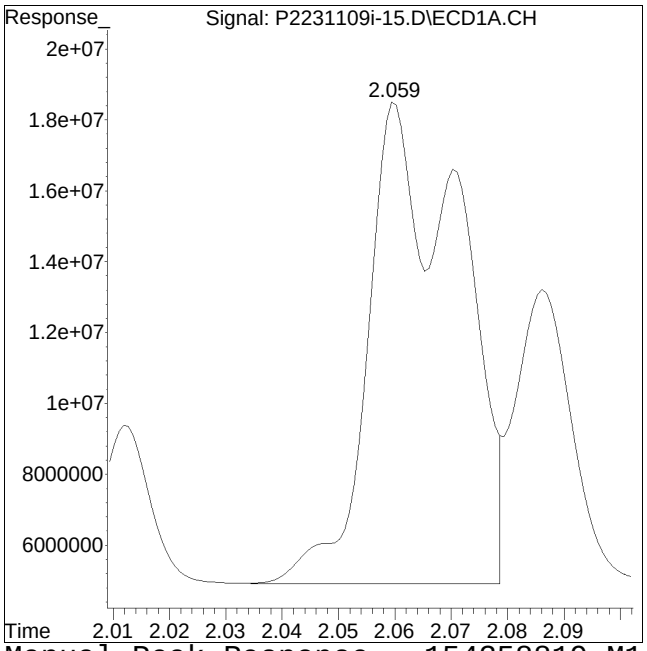
Original Peak Response = 387822977 Manual Peak Response = 359506037 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-15.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 2:51 pm Instrument : Pest 2
Sample : cicv1248,42,, 11351 Quant Date : 11/9/2023 4:08 pm

Compound #36: 1248-2





Original Peak Response = 83883966 Manual Peak Response = 154358819 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   3:00 pm
Operator : pest2:rmp/kb
Sample   : cicv2154,42,, 11349
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:12 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:02 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	104	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.524	1.442	5.4	100	0.00
3	s	Decachlorobiphenyl		1.372	1.254	8.6	97	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	102	0.00
15	l3	1221-2		0.015	0.013	13.3	93	0.00
16	l3	1221-3		0.00961	0.00848	11.8	90	0.00
17	l3	1221-4		0.038	0.035	7.9	94	0.00
18	l4	1254-1		0.052	0.050	3.8	98	0.00
19	l4	1254-2		0.095	0.094	1.1	100	0.00
20	l4	1254-3		0.099	0.098	1.0	101	0.00
21	l4	1254-4		0.073	0.071	2.7	100	0.00
22	l4	1254-5		0.106	0.097	8.5	93	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	103	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	96	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	95	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	103	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.660	1.549	6.7	103	0.00
3	s	Decachlorobiphenyl		1.143	1.012	11.5	101	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	103	0.00
15	l3	1221-2		0.019	0.016	15.8	88	0.00
16	l3	1221-3		0.011	0.011	0.0	102	0.00
17	l3	1221-4		0.040	0.037	7.5	95	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   3:00 pm
Operator : pest2:rmp/kb
Sample   : cicv2154,42,, 11349
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:12 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:02 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF		%Dev	Area%	Dev(Min)
18	l4	1254-1		0.062	0.064		-3.2	105	0.00
19	l4	1254-2		0.072	0.071		1.4	101	0.00
20	l4	1254-3		0.108	0.108		0.0	103	0.00
21	l4	1254-4		0.069	0.069		0.0	103	0.00
22	l4	1254-5		0.097	0.092		5.2	98	0.00
23	i	4268_1br2nb	^	1.000	1.000		0.0	103	0.00
34	i	1248_1br2nb	^	1.000	1.000		0.0	102	0.00
40	i	3262_1br2nb	^	1.000	1.000		0.0	102	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1		193.891	0.000	E3	100.0#	0#	-1.60#
5	l1	1016-2		384.456	0.000	E3	100.0#	0#	-1.74#
6	l1	1016-3		0.850	0.000	E6	100.0#	0#	-1.93#
7	l1	1016-4		366.497	0.000	E3	100.0#	0#	-1.98#
8	l1	1016-5		376.016	0.000	E3	100.0#	0#	-2.15#
9	l2	1260-1		543.569	0.000	E3	100.0#	0#	-2.69#
10	l2	1260-2		0.835	0.000	E6	100.0#	0#	-2.82#
11	l2	1260-3		557.818	0.000	E3	100.0#	0#	-3.14#
12	l2	1260-4		1.166	0.000	E6	100.0#	0#	-3.29#
13	l2	1260-5		0.862	0.000	E6	100.0#	0#	-3.44#
24	l6	1242-1		0.00065	0.00000		100.0#	0#	-1.60#
25	l6	1242-2		0.00130	0.00000		100.0#	0#	-1.74#
26	l6	1242-3		0.00292	0.00000		100.0#	0#	-1.93#
27	l6	1242-4		0.00125	0.00000		100.0#	0#	-1.98#
28	l6	1242-5		0.00095	0.00000		100.0#	0#	-2.33#
29	l9	1268-1		0.00681	0.00000		100.0#	0#	-3.46#
30	l9	1268-2		0.00642	0.00000		100.0#	0#	-3.48#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   3:00 pm
Operator : pest2:rmp/kb
Sample   : cicv2154,42,, 11349
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:12 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:02 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
31	l9	1268-3	0.00518	0.00000	100.0#	0#	-3.58#
32	l9	1268-4	0.00231	0.00000	100.0#	0#	-3.77#
33	l9	1268-5	0.015	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.00183	0.00000	100.0#	0#	-1.93#
36	l7	1248-2	0.00228	0.00000	100.0#	0#	-2.06#
37	l7	1248-3	0.00211	0.00000	100.0#	0#	-2.15#
38	l7	1248-4	0.00187	0.00000	100.0#	0#	-2.33#
39	l7	1248-5	0.00172	0.00000	100.0#	0#	-2.35#
41	l5	1232-1	0.00094	0.00000	100.0#	0#	-1.60#
42	l5	1232-2	0.00082	0.00000	100.0#	0#	-1.74#
43	l5	1232-3	0.00175	0.00000	100.0#	0#	-1.93#
44	l5	1232-4	0.00074	0.00000	100.0#	0#	-1.98#
45	l5	1232-5	0.00051	0.00000	100.0#	0#	-2.33#
46	l8	1262-1	0.00249	0.00000	100.0#	0#	-2.82#
47	l8	1262-2	0.00319	0.00000	100.0#	0#	-3.01#
48	l8	1262-3	0.00288	0.00000	100.0#	0#	-3.14#
49	l8	1262-4	0.00587	0.00000	100.0#	0#	-3.29#
50	l8	1262-5	0.00196	0.00000	100.0#	0#	-3.77#

Signal #2

4	l1	1016-1	320.376	0.000 E3	100.0#	0#	-1.82#
5	l1	1016-2	710.864	0.000 E3	100.0#	0#	-1.99#
6	l1	1016-3	1.401	0.000 E6	100.0#	0#	-2.19#
7	l1	1016-4	586.280	0.000 E3	100.0#	0#	-2.25#
8	l1	1016-5	461.603	0.000 E3	100.0#	0#	-2.46#
9	l2	1260-1	856.929	0.000 E3	100.0#	0#	-3.08#
10	l2	1260-2	0.997	0.000 E6	100.0#	0#	-3.18#
11	l2	1260-3	838.364	0.000 E3	100.0#	0#	-3.57#
12	l2	1260-4	1.649	0.000 E6	100.0#	0#	-3.70#
13	l2	1260-5	1.136	0.000 E6	100.0#	0#	-3.90#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   3:00 pm
Operator : pest2:rmp/kb
Sample   : cicv2154,42,, 11349
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:12 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:02 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	249.289	0.000 E3	100.0#	0#	-1.82#
25 l6	1242-2	541.670	0.000 E3	100.0#	0#	-1.99#
26 l6	1242-3	1.059	0.000 E6	100.0#	0#	-2.19#
27 l6	1242-4	447.273	0.000 E3	100.0#	0#	-2.25#
28 l6	1242-5	335.813	0.000 E3	100.0#	0#	-2.64#
29 l9	1268-1	2.007	0.000 E6	100.0#	0#	-3.89#
30 l9	1268-2	1.828	0.000 E6	100.0#	0#	-3.92#
31 l9	1268-3	1.344	0.000 E6	100.0#	0#	-4.06#
32 l9	1268-4	648.615	0.000 E3	100.0#	0#	-4.21#
33 l9	1268-5	4.442	0.000 E6	100.0#	0#	-4.40#
35 l7	1248-1	683.579	0.000 E3	100.0#	0#	-2.19#
36 l7	1248-2	457.803	0.000 E3	100.0#	0#	-2.34#
37 l7	1248-3	577.728	0.000 E3	100.0#	0#	-2.46#
38 l7	1248-4	621.307	0.000 E3	100.0#	0#	-2.64#
39 l7	1248-5	698.642	0.000 E3	100.0#	0#	-2.66#
41 l5	1232-1	344.238	0.000 E3	100.0#	0#	-1.82#
42 l5	1232-2	343.242	0.000 E3	100.0#	0#	-1.99#
43 l5	1232-3	638.328	0.000 E3	100.0#	0#	-2.19#
44 l5	1232-4	266.077	0.000 E3	100.0#	0#	-2.25#
45 l5	1232-5	183.934	0.000 E3	100.0#	0#	-2.64#
46 l8	1262-1	737.633	0.000 E3	100.0#	0#	-3.17#
47 l8	1262-2	966.585	0.000 E3	100.0#	0#	-3.41#
48 l8	1262-3	919.422	0.000 E3	100.0#	0#	-3.57#
49 l8	1262-4	1.719	0.000 E6	100.0#	0#	-3.70#
50 l8	1262-5	595.983	0.000 E3	100.0#	0#	-4.22#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 3:00 pm
Operator : pest2:rmp/kb
Sample : cicv2154,42,, 11349
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:12 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:02 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.186	1.256	223.7E6	282.8E6	25.000	25.000
14) i	2154_1br2nb	1.186	1.256	223.7E6	282.8E6	25.000	25.000
23) i	4268_1br2nb	1.186	1.256	223.7E6	282.8E6	25.000	25.000
34) i	1248_1br2nb	1.186	1.256	223.7E6	282.8E6	25.000	25.000
40) i	3262_1br2nb	1.186	1.256	223.7E6	282.8E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.466	1.627	206.4E6	280.3E6	15.140	14.929
	Spiked Amount 20.000	Range 30 - 150		Recovery =		75.70%	74.65%
3) s	Decachlorobi	4.029	4.553	359.2E6	366.4E6	29.251	28.344
	Spiked Amount 20.000	Range 30 - 150		Recovery =		146.26%	141.72%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	1.528	1.740	30065017	45078607	228.590	214.225
16) l3	1221-3	1.587	1.799	18972271	31460054	220.486	248.565
17) l3	1221-4	1.603	1.825	79204742	104.5E6	231.330	230.490

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 3:00 pm
Operator : pest2:rmp/kb
Sample : cicv2154,42,, 11349
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:12 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:02 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			128.2E6	181.1E6	680.406	693.281
Average	1221-2					226.802	231.094
18) l4	1254-1	2.317	2.663	111.4E6	180.1E6	239.385	256.311
19) l4	1254-2	2.430	2.751	209.6E6	200.4E6	245.605	245.774
20) l4	1254-3	2.612	2.979	220.4E6	304.4E6	248.541	249.652
21) l4	1254-4	2.741	3.092	159.4E6	195.7E6	243.915	250.052
22) l4	1254-5	2.963	3.367	216.9E6	261.4E6	227.933	238.018
Sum	1254-1			917.7E6	1141.9E6	1205.379	1239.807
Average	1254-1					241.076	247.961
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 3:00 pm
Operator : pest2:rmp/kb
Sample : cicv2154,42,, 11349
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:12 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:02 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

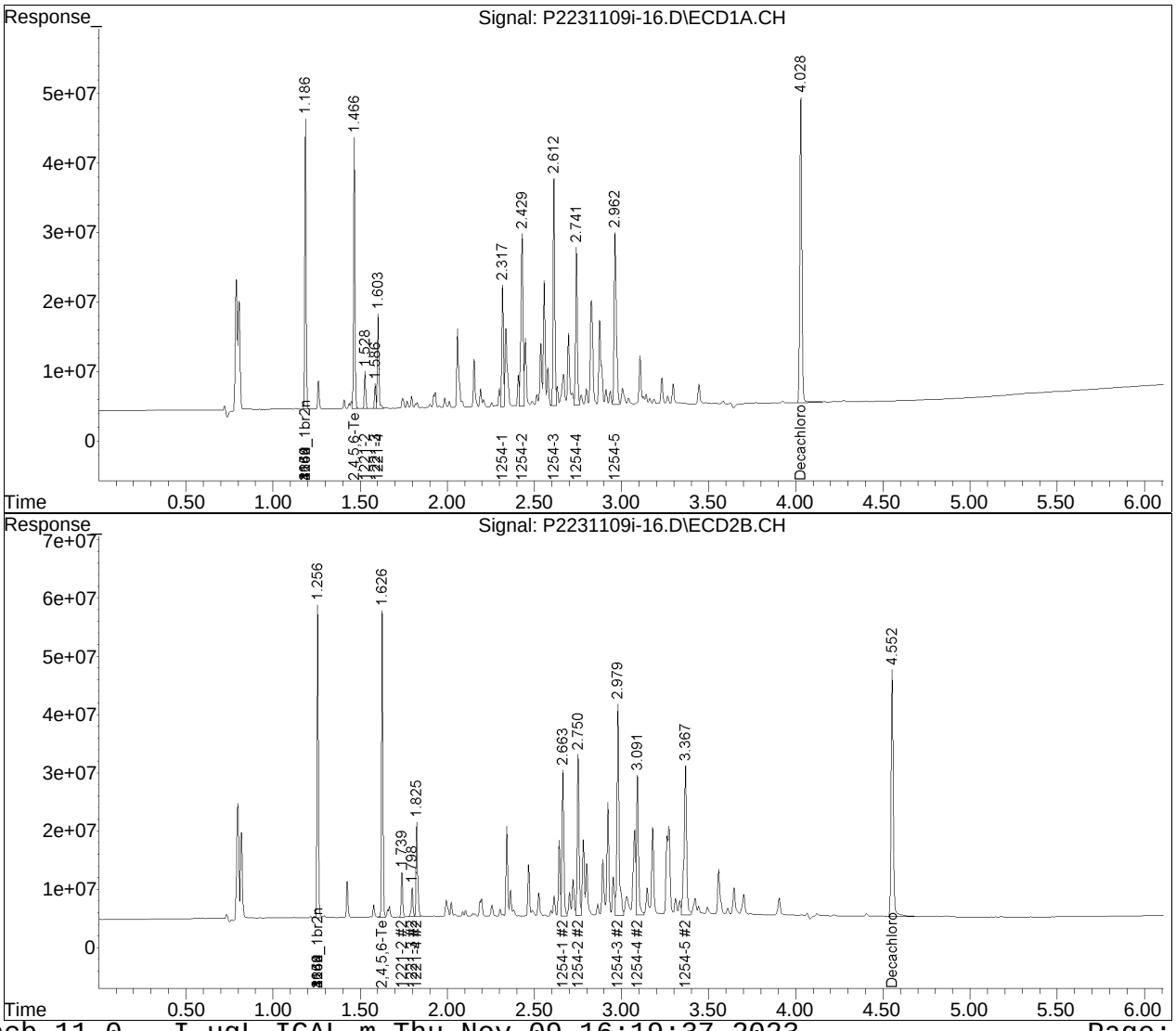
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-16.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 3:00 pm
Operator : pest2:rmp/kb
Sample : cicv2154,42,, 11349
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:12 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:02 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PCB\Pest2\2023\231109I\	QMethod	: P2_pcb_11_09_23_LVI_ugL_
Data File	: P2231109i-16.D	Operator	: pest2:rmp/kb
Date Inj'd	: 11/9/2023 3:00 pm	Instrument	: Pest 2
Sample	: cicv2154,42,, 11349	Quant Date	: 11/9/2023 4:09 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   3:09 pm
Operator : pest2:rmp/kb
Sample   : cicv1660,42,, 11348
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:30 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:18 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	107	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.524	1.346	11.7	96	0.00
3	s	Decachlorobiphenyl		1.372	1.207	12.0	96	0.00
4	l1	1016-1		0.027	0.023	14.8	94	0.00
5	l1	1016-2		0.053	0.050	5.7	105	0.00
6	l1	1016-3		0.118	0.110	6.8	103	0.00
7	l1	1016-4		0.051	0.046	9.8	101	0.00
8	l1	1016-5		0.052	0.046	11.5	100	0.00
9	l2	1260-1		0.076	0.068	10.5	98	0.00
10	l2	1260-2		0.116	0.108	6.9	104	0.00
11	l2	1260-3		0.077	0.060	22.1#	88	0.00
12	l2	1260-4		0.162	0.131	19.1	89	0.00
13	l2	1260-5		0.120	0.099	17.5	92	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	105	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	106	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	99	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	98	0.00

Signal #2

1	i	1660_1br2nb	^	1.000	1.000	0.0	103	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.660	1.497	9.8	99	0.00
3	s	Decachlorobiphenyl		1.143	1.029	10.0	102	0.00
4	l1	1016-1		0.029	0.026	10.3	100	0.00
5	l1	1016-2		0.065	0.061	6.2	105	0.00
6	l1	1016-3		0.128	0.123	3.9	107	0.00

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   3:09 pm
Operator : pest2:rmp/kb
Sample   : cicv1660,42,, 11348
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:30 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:18 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
7	l1	1016-4		0.053	0.051	3.8	108	0.00
8	l1	1016-5		0.042	0.038	9.5	102	0.00
9	l2	1260-1		0.078	0.074	5.1	106	0.00
10	l2	1260-2		0.091	0.085	6.6	104	0.00
11	l2	1260-3		0.076	0.063	17.1	93	0.00
12	l2	1260-4		0.150	0.120	20.0	88	0.00
13	l2	1260-5		0.104	0.088	15.4	94	0.00
14	i	2154_1br2nb	^	1.000	1.000	0.0	103	0.00
23	i	4268_1br2nb	^	1.000	1.000	0.0	103	0.00
34	i	1248_1br2nb	^	1.000	1.000	0.0	102	0.00
40	i	3262_1br2nb	^	1.000	1.000	0.0	102	0.00

Evaluate Continuing Calibration Report - Not Founds

15	l3	1221-2	0.00046	0.00000	100.0#	0#	-1.53#
16	l3	1221-3	0.00030	0.00000	100.0#	0#	-1.59#
17	l3	1221-4	0.00120	0.00000	100.0#	0#	-1.60#
18	l4	1254-1	0.00164	0.00000	100.0#	0#	-2.32#
19	l4	1254-2	0.00300	0.00000	100.0#	0#	-2.43#
20	l4	1254-3	0.00312	0.00000	100.0#	0#	-2.61#
21	l4	1254-4	0.00230	0.00000	100.0#	0#	-2.74#
22	l4	1254-5	0.00335	0.00000	100.0#	0#	-2.96#
24	l6	1242-1	0.00065	0.00000	100.0#	0#	-1.60#
25	l6	1242-2	0.00130	0.00000	100.0#	0#	-1.74#
26	l6	1242-3	0.00292	0.00000	100.0#	0#	-1.93#
27	l6	1242-4	0.00125	0.00000	100.0#	0#	-1.98#
28	l6	1242-5	0.00095	0.00000	100.0#	0#	-2.33#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   3:09 pm
Operator : pest2:rmp/kb
Sample   : cicv1660,42,, 11348
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:30 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:18 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
29	l9	1268-1	0.00681	0.00000	100.0#	0#	-3.46#
30	l9	1268-2	0.00642	0.00000	100.0#	0#	-3.48#
31	l9	1268-3	0.00518	0.00000	100.0#	0#	-3.58#
32	l9	1268-4	0.00231	0.00000	100.0#	0#	-3.77#
33	l9	1268-5	0.015	0.000	100.0#	0#	-3.92#
35	l7	1248-1	0.00183	0.00000	100.0#	0#	-1.93#
36	l7	1248-2	0.00228	0.00000	100.0#	0#	-2.06#
37	l7	1248-3	0.00211	0.00000	100.0#	0#	-2.15#
38	l7	1248-4	0.00187	0.00000	100.0#	0#	-2.33#
39	l7	1248-5	0.00172	0.00000	100.0#	0#	-2.35#
41	l5	1232-1	0.00094	0.00000	100.0#	0#	-1.60#
42	l5	1232-2	0.00082	0.00000	100.0#	0#	-1.74#
43	l5	1232-3	0.00175	0.00000	100.0#	0#	-1.93#
44	l5	1232-4	0.00074	0.00000	100.0#	0#	-1.98#
45	l5	1232-5	0.00051	0.00000	100.0#	0#	-2.33#
46	l8	1262-1	0.00249	0.00000	100.0#	0#	-2.82#
47	l8	1262-2	0.00319	0.00000	100.0#	0#	-3.01#
48	l8	1262-3	0.00288	0.00000	100.0#	0#	-3.14#
49	l8	1262-4	0.00587	0.00000	100.0#	0#	-3.29#
50	l8	1262-5	0.00196	0.00000	100.0#	0#	-3.77#

Signal #2

15	l3	1221-2	204.574	0.000 E3	100.0#	0#	-1.74#
16	l3	1221-3	123.046	0.000 E3	100.0#	0#	-1.80#
17	l3	1221-4	440.877	0.000 E3	100.0#	0#	-1.82#
18	l4	1254-1	682.932	0.000 E3	100.0#	0#	-2.66#
19	l4	1254-2	792.588	0.000 E3	100.0#	0#	-2.75#
20	l4	1254-3	1.185	0.000 E6	100.0#	0#	-2.98#
21	l4	1254-4	760.965	0.000 E3	100.0#	0#	-3.09#
22	l4	1254-5	1.068	0.000 E6	100.0#	0#	-3.37#

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 09 Nov 2023   3:09 pm
Operator : pest2:rmp/kb
Sample   : cicv1660,42,, 11348
Misc   : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:30 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:18 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
24 l6	1242-1	249.289	0.000 E3	100.0#	0#	-1.82#
25 l6	1242-2	541.670	0.000 E3	100.0#	0#	-1.99#
26 l6	1242-3	1.059	0.000 E6	100.0#	0#	-2.19#
27 l6	1242-4	447.273	0.000 E3	100.0#	0#	-2.25#
28 l6	1242-5	335.813	0.000 E3	100.0#	0#	-2.64#
29 l9	1268-1	2.007	0.000 E6	100.0#	0#	-3.89#
30 l9	1268-2	1.828	0.000 E6	100.0#	0#	-3.92#
31 l9	1268-3	1.344	0.000 E6	100.0#	0#	-4.06#
32 l9	1268-4	648.615	0.000 E3	100.0#	0#	-4.21#
33 l9	1268-5	4.442	0.000 E6	100.0#	0#	-4.40#
35 l7	1248-1	683.579	0.000 E3	100.0#	0#	-2.19#
36 l7	1248-2	457.803	0.000 E3	100.0#	0#	-2.34#
37 l7	1248-3	577.728	0.000 E3	100.0#	0#	-2.46#
38 l7	1248-4	621.307	0.000 E3	100.0#	0#	-2.64#
39 l7	1248-5	698.642	0.000 E3	100.0#	0#	-2.66#
41 l5	1232-1	344.238	0.000 E3	100.0#	0#	-1.82#
42 l5	1232-2	343.242	0.000 E3	100.0#	0#	-1.99#
43 l5	1232-3	638.328	0.000 E3	100.0#	0#	-2.19#
44 l5	1232-4	266.077	0.000 E3	100.0#	0#	-2.25#
45 l5	1232-5	183.934	0.000 E3	100.0#	0#	-2.64#
46 l8	1262-1	737.633	0.000 E3	100.0#	0#	-3.17#
47 l8	1262-2	966.585	0.000 E3	100.0#	0#	-3.41#
48 l8	1262-3	919.422	0.000 E3	100.0#	0#	-3.57#
49 l8	1262-4	1.719	0.000 E6	100.0#	0#	-3.70#
50 l8	1262-5	595.983	0.000 E3	100.0#	0#	-4.22#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 3:09 pm
Operator : pest2:rmp/kb
Sample : cicv1660,42,, 11348
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:30 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:18 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.187	1.257	229.9E6	283.1E6	25.000	25.000
14) i	2154_1br2nb	1.187	1.257	229.9E6	283.1E6	25.000	25.000
23) i	4268_1br2nb	1.187	1.257	229.9E6	283.1E6	25.000	25.000
34) i	1248_1br2nb	1.187	1.257	229.9E6	283.1E6	25.000	25.000
40) i	3262_1br2nb	1.187	1.257	229.9E6	283.1E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.467	1.627	198.1E6	271.2E6	14.139M3	14.430
Spiked Amount	20.000	Range 30 - 150		Recovery =		70.69%	72.15%
3) s	Decachlorobi	4.030	4.553	355.3E6	373.0E6	28.155	28.823
Spiked Amount	20.000	Range 30 - 150		Recovery =		140.78%	144.11%
	Target Compounds						
4) l1	1016-1	1.604	1.826	51849819	73965061	209.757	223.662
5) l1	1016-2	1.744	1.997	114.5E6	173.6E6	233.473M3	236.501
6) l1	1016-3	1.932	2.198	252.9E6	347.2E6	232.641	240.056
7) l1	1016-4	1.986	2.257	106.0E6	145.0E6	226.413	239.644
8) l1	1016-5	2.156	2.468	105.6E6	108.1E6	220.585	226.972M4
Sum	1016-1			630.9E6	847.9E6	1122.869	1166.834
Average	1016-1					224.574	233.367
9) l2	1260-1	2.697	3.076	155.9E6	210.7E6	223.951	238.272M4
10) l2	1260-2	2.827	3.179	249.0E6	241.4E6	233.504	234.689M4
11) l2	1260-3	3.142	3.571	138.4E6	178.7E6	194.861	206.506M4
12) l2	1260-4	3.297	3.702	300.9E6	339.2E6	201.580	199.338M4
13) l2	1260-5	3.444	3.903	226.6E6	248.1E6	205.895M1	211.654M2
Sum	1260-1			1070.9E6	1218.1E6	1059.791	1090.458
Average	1260-1					211.958	218.092
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 3:09 pm
Operator : pest2:rmp/kb
Sample : cicv1660,42,, 11348
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:30 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:18 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 3:09 pm
Operator : pest2:rmp/kb
Sample : cicv1660,42,, 11348
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:30 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:18 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

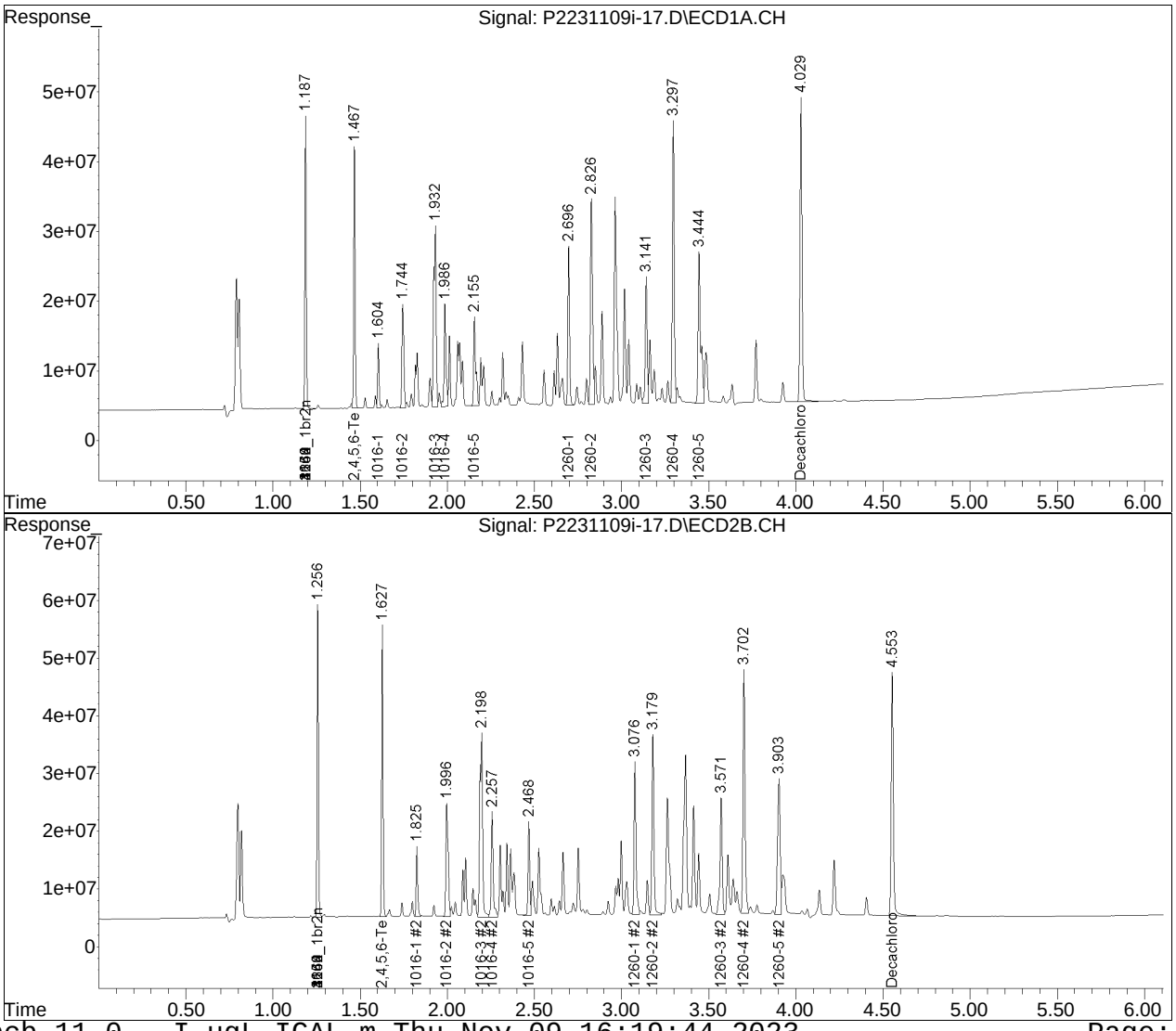
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PCB\Pest2\2023\231109I\
Data File : P2231109i-17.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 09 Nov 2023 3:09 pm
Operator : pest2:rmp/kb
Sample : cicv1660,42,, 11348
Misc : WG1850491,, (Sig #1); ,,ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Nov 09 16:09:30 2023
Quant Method : I:\PCB\Pest2\2023\231109I\P2_pcb_11_09_23_LVI_ugL_ICAL.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:09:18 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

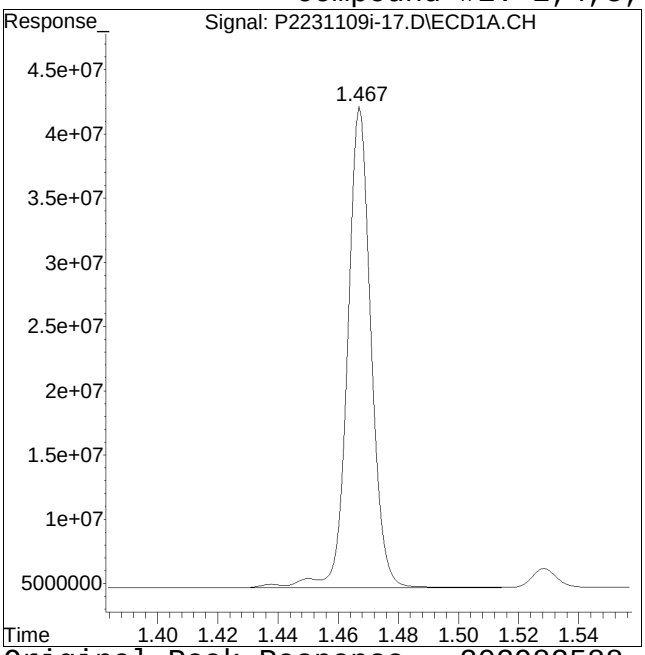
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



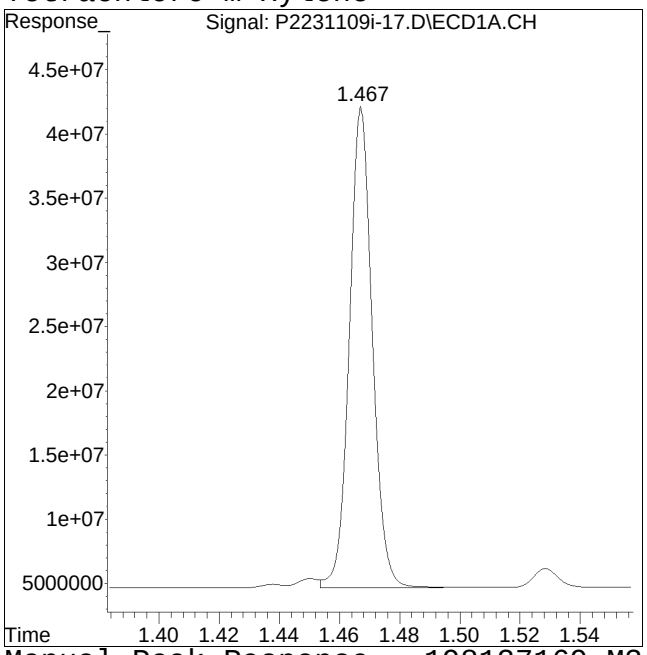
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-17.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 3:09 pm Instrument : Pest 2
Sample : cicv1660,42,, 11348 Quant Date : 11/9/2023 4:09 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 202982588



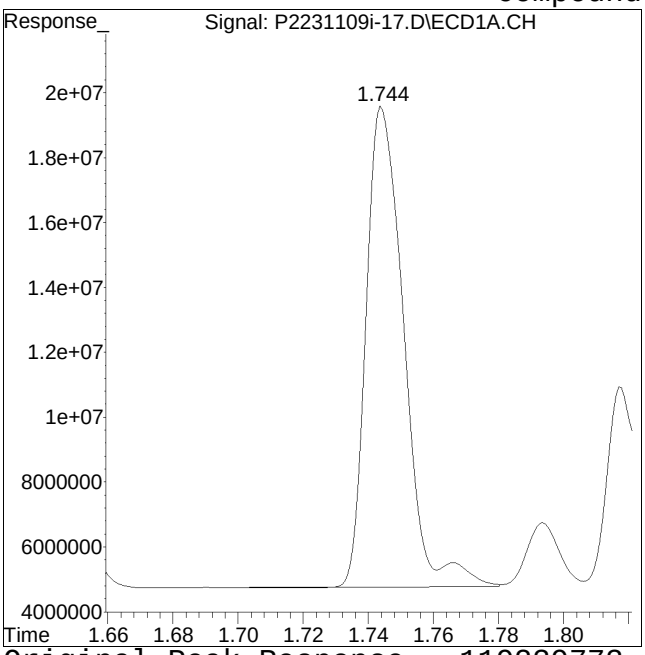
Manual Peak Response = 198127169 M3

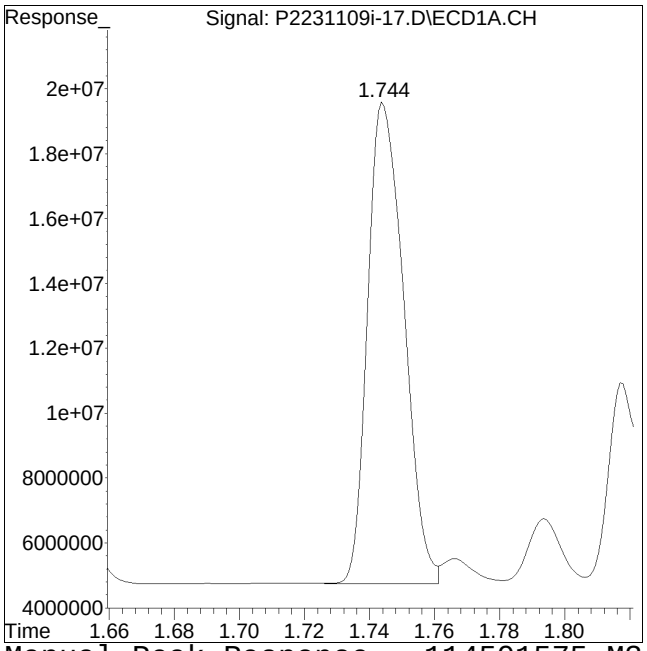
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-17.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 3:09 pm Instrument : Pest 2
Sample : cicv1660,42,, 11348 Quant Date : 11/9/2023 4:09 pm

Compound #5: 1016-2



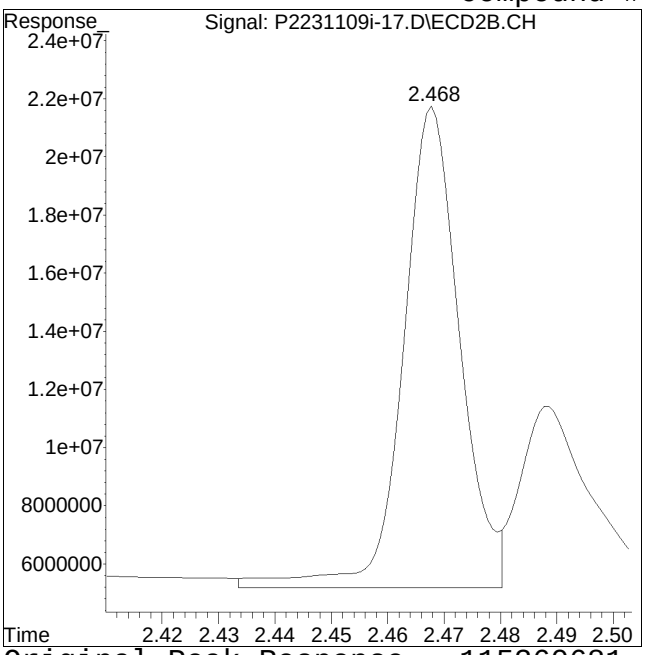


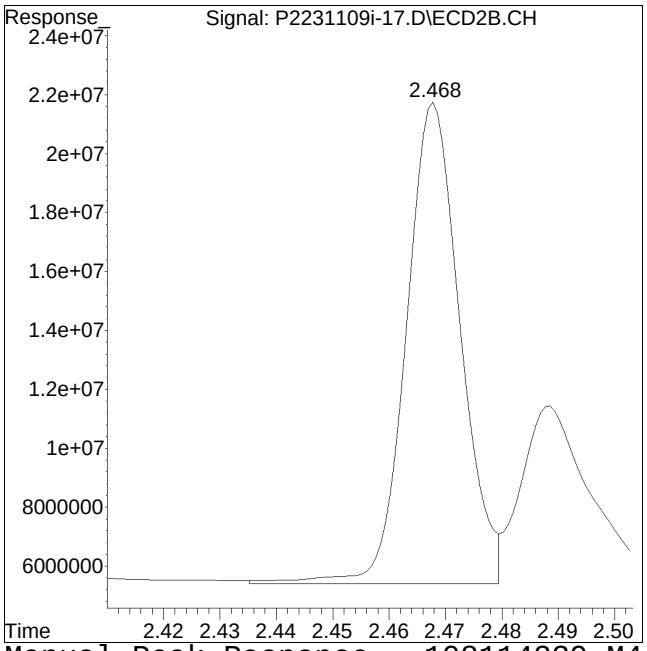
Original Peak Response = 119239773 Manual Peak Response = 114501575 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-17.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 3:09 pm Instrument : Pest 2
Sample : cicv1660,42,, 11348 Quant Date : 11/9/2023 4:09 pm

Compound #59: 1016-5 #2



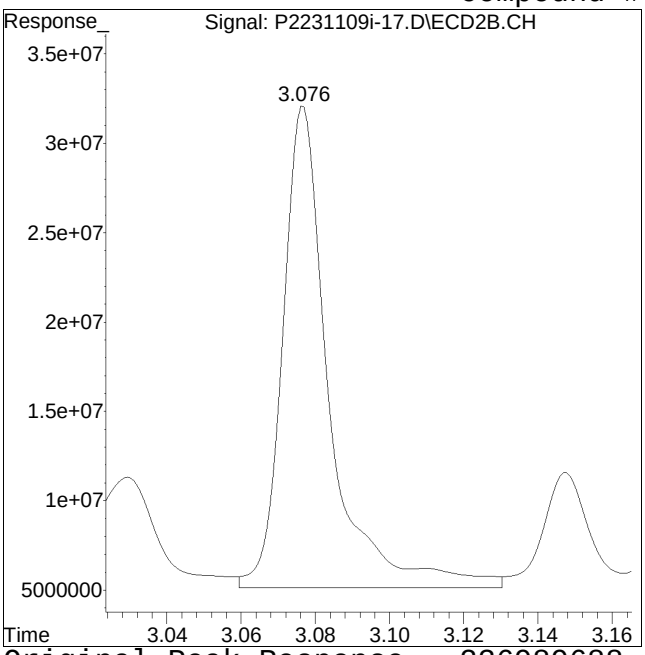


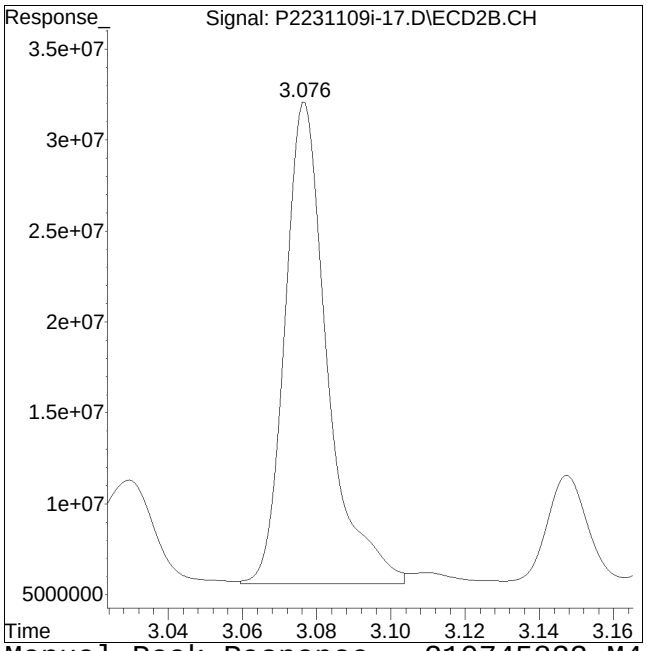
Original Peak Response = 115360681 Manual Peak Response = 108114239 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-17.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 3:09 pm Instrument : Pest 2
Sample : cicv1660,42,, 11348 Quant Date : 11/9/2023 4:09 pm

Compound #60: 1260-1 #2



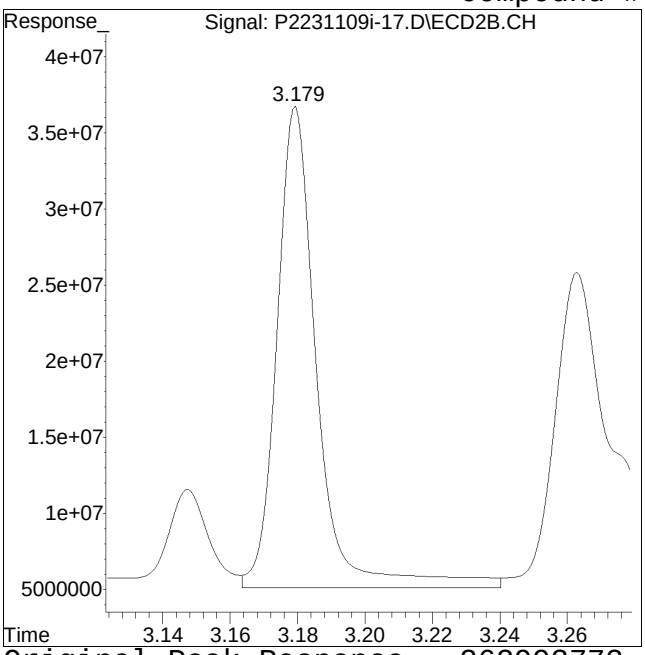


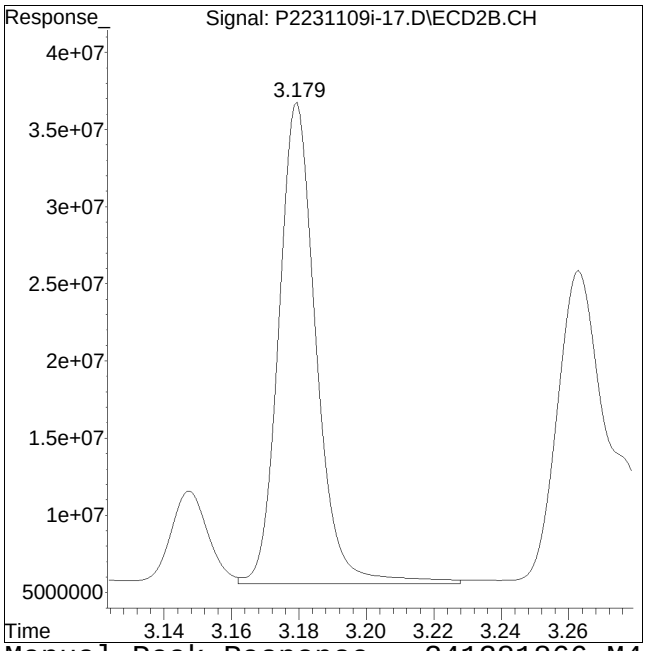
Original Peak Response = 236989688 Manual Peak Response = 210745833 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-17.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 3:09 pm Instrument : Pest 2
Sample : cicv1660,42,, 11348 Quant Date : 11/9/2023 4:09 pm

Compound #61: 1260-2 #2



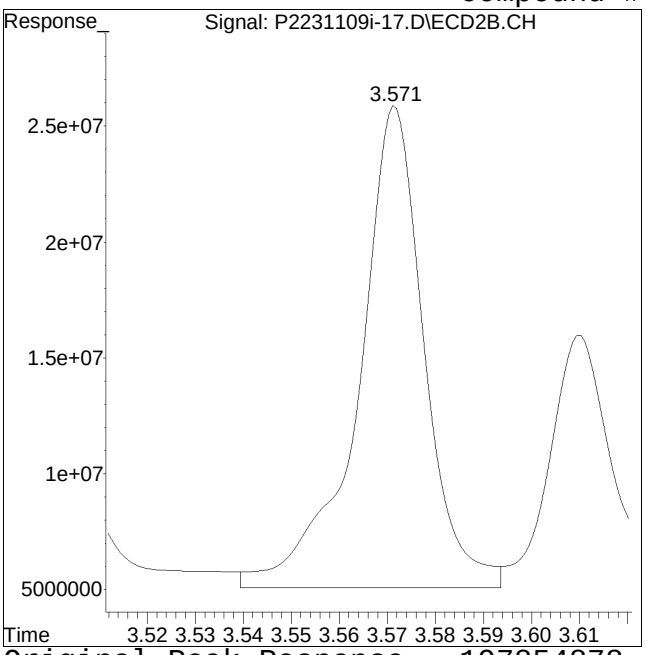


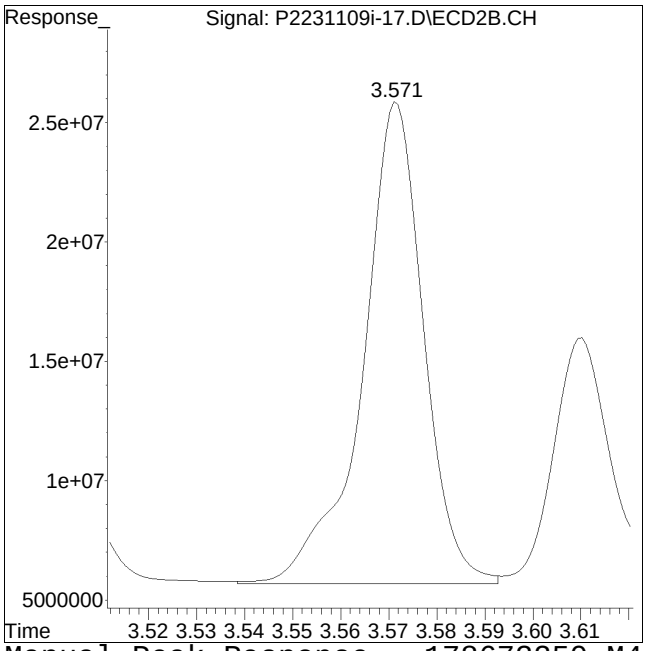
Original Peak Response = 262993772 Manual Peak Response = 241381866 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-17.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 3:09 pm Instrument : Pest 2
Sample : cicv1660,42,, 11348 Quant Date : 11/9/2023 4:09 pm

Compound #62: 1260-3 #2



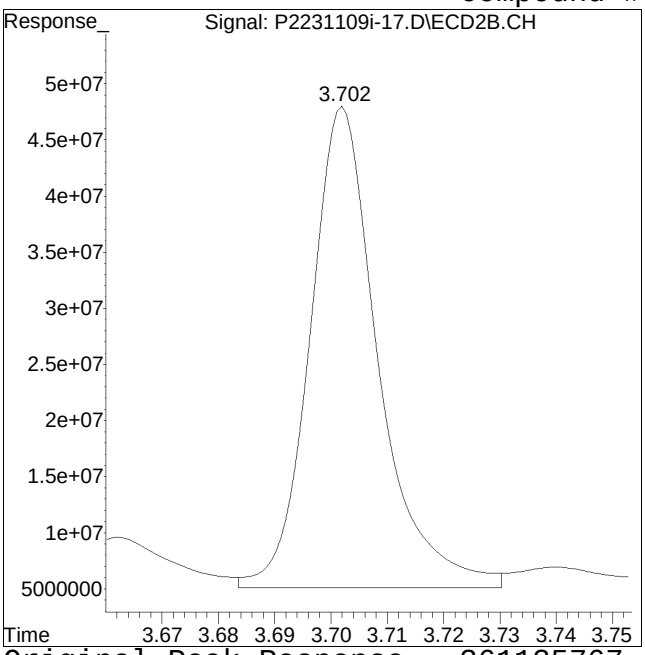


Original Peak Response = 197854878 Manual Peak Response = 178673250 M4
M4 = Poor automated baseline construction.

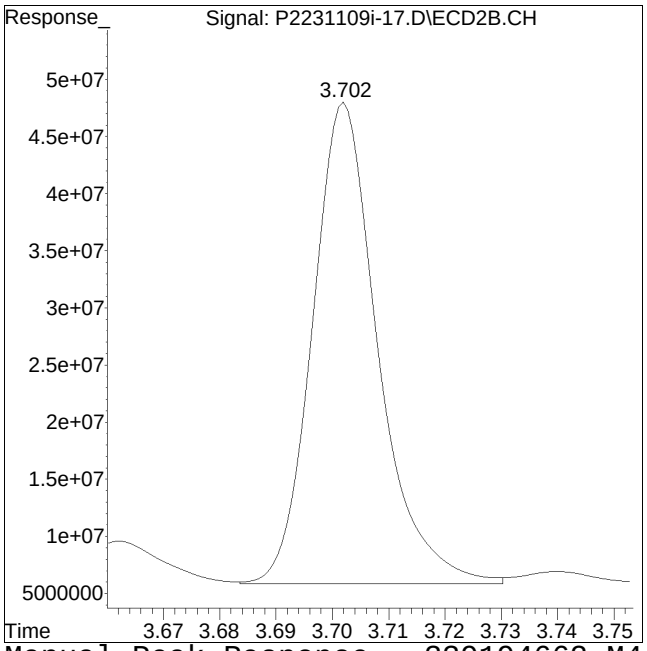
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-17.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 3:09 pm Instrument : Pest 2
Sample : cicv1660,42,, 11348 Quant Date : 11/9/2023 4:09 pm

Compound #63: 1260-4 #2



Original Peak Response = 361135767



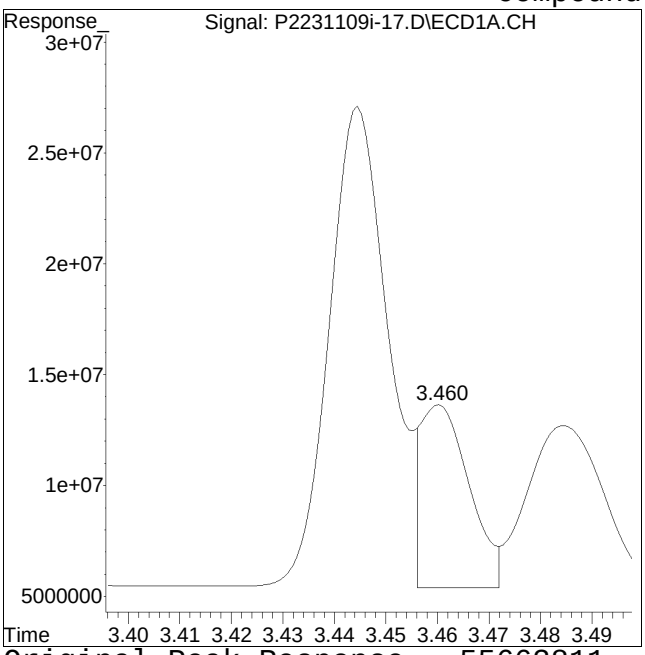
Manual Peak Response = 339194662 M4

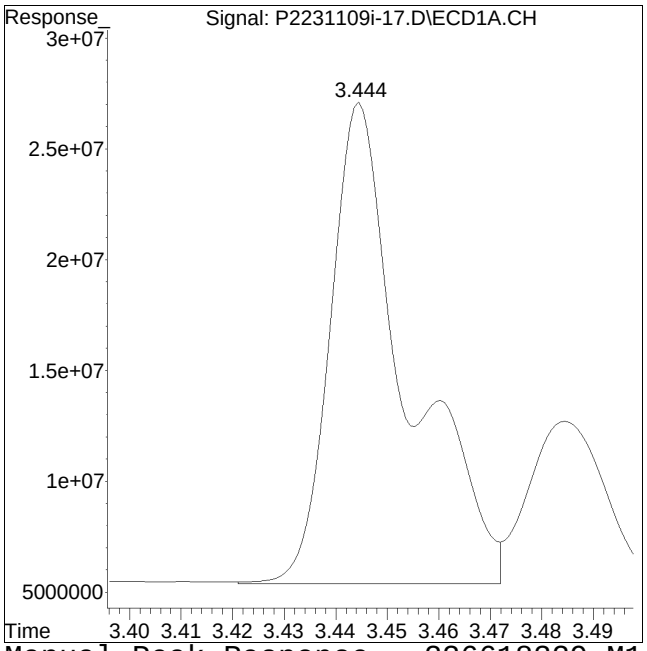
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-17.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 3:09 pm Instrument : Pest 2
Sample : cicv1660,42,, 11348 Quant Date : 11/9/2023 4:09 pm

Compound #13: 1260-5



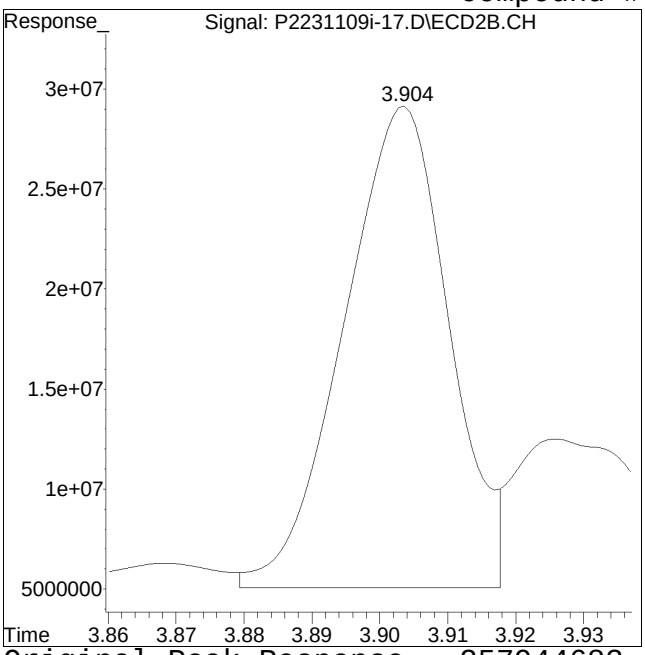


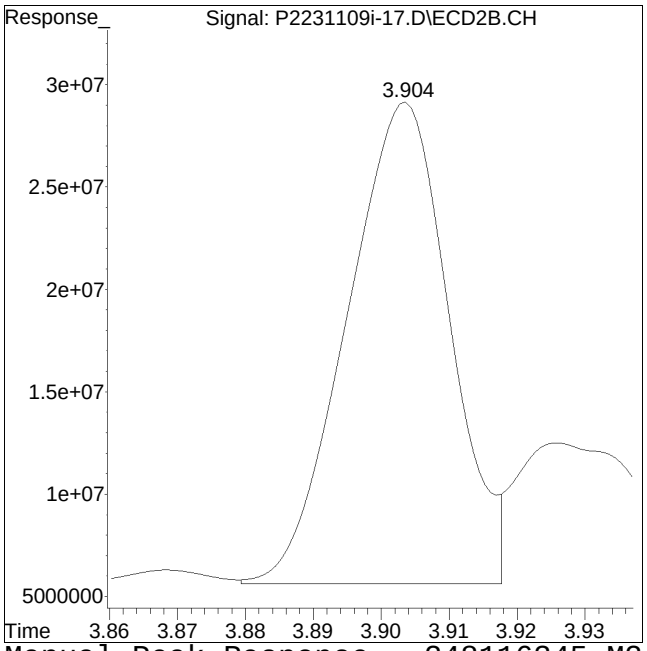
Original Peak Response = 55663811 Manual Peak Response = 226618329 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231109I\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231109i-17.D Operator : pest2:rmp/kb
Date Inj'd : 11/9/2023 3:09 pm Instrument : Pest 2
Sample : cicv1660,42,, 11348 Quant Date : 11/9/2023 4:09 pm

Compound #64: 1260-5 #2





Original Peak Response = 257944683 Manual Peak Response = 248116345 M2
M2 = Peak not found by automatic integration algorithm.

Continuing Calibration

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST2		**Calibration Date**	: 12/06/23 09:27	
Lab File ID	: P2231206a-03		**Init. Calib. Date(s)**	: 11/09/23	11/09/23
Sample No	: WG1860406-1		**Init. Calib. Times**	: 13:05	14:24
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	1	1	-	0	20	96	0
2,4,5,6-Tetrachloro-m-xylen	1.524	1.832	-	-20.2*	20	118	0
Decachlorobiphenyl	1.372	1.45	-	-5.7	20	104	0
1016-1	0.027	0.024	-	11.1	20	92	0
1016-2	0.053	0.045	-	15.1	20	84	0
1016-3	0.118	0.104	-	11.9	20	87	0
1016-4	0.051	0.046	-	9.8	20	90	0
1016-5	0.052	0.045	-	13.5	20	88	0
1260-1	0.076	0.067	-	11.8	20	87	0
1260-2	0.116	0.112	-	3.4	20	97	0
1260-3	0.077	0.063	-	18.2	20	83	0
1260-4	0.162	0.117	-	27.8*	20	71	0
1260-5	0.12	0.099	-	17.5	20	83	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
PCBs

Client	: Alpha Geoscience	**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116	
Instrument ID	: PEST2	**Calibration Date**	: 12/06/23 09:27	
Lab File ID	: P2231206a-03	**Init. Calib. Date(s)**	: 11/09/23	11/09/23
Sample No	: WG1860406-1	**Init. Calib. Times**	: 13:05	14:24
Channel	: B			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	1	1	-	0	20	111	0
2,4,5,6-Tetrachloro-m-xylen	1.66	1.529	-	7.9	20	109	0
Decachlorobiphenyl #2	1.143	1.081	-	5.4	20	115	0
1016-1 #2	0.029	0.024	-	17.2	20	99	0
1016-2 #2	0.065	0.059	-	9.2	20	108	0
1016-3 #2	0.128	0.107	-	16.4	20	100	0
1016-4 #2	0.053	0.045	-	15.1	20	102	0
1016-5 #2	0.042	0.034	-	19	20	98	0
1260-1 #2	0.078	0.065	-	16.7	20	99	0
1260-2 #2	0.091	0.084	-	7.7	20	110	0
1260-3 #2	0.076	0.063	-	17.1	20	100	0
1260-4 #2	0.15	0.11	-	26.7*	20	86	0
1260-5 #2	0.104	0.082	-	21.2*	20	94	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 9:27 am
Operator : pest2:sdc
Sample : wg1860406-1,42,, +1660 pp11386 ccal lvi (Sig #1); +1660 pp11386 ccal lvi (Sig #2)
Misc : wg1860406,,ical20537
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:36:01 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	^	1.000	1.000	0.0	96	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.524	1.832	-20.2#	118	0.00
3	s	Decachlorobiphenyl		1.372	1.450	-5.7	104	0.00
4	l1	1016-1		0.027	0.024	11.1	92	0.00
5	l1	1016-2		0.053	0.045	15.1	84	0.00
6	l1	1016-3		0.118	0.104	11.9	87	0.00
7	l1	1016-4		0.051	0.046	9.8	90	0.00
8	l1	1016-5		0.052	0.045	13.5	88	0.00
9	l2	1260-1		0.076	0.067	11.8	87	0.00
10	l2	1260-2		0.116	0.112	3.4	97	0.00
11	l2	1260-3		0.077	0.063	18.2	83	0.00
12	l2	1260-4		0.162	0.117	27.8#	71	0.00
13	l2	1260-5		0.120	0.099	17.5	83	0.00
52	i	1660_1br2nb #2	^	1.000	1.000	0.0	111	0.00
53	s	2,4,5,6-Tetrachloro-m-xylen		1.660	1.529	7.9	109	0.00
54	s	Decachlorobiphenyl #2		1.143	1.081	5.4	115	0.00
55	l1	1016-1 #2		0.029	0.024	17.2	99	0.00
56	l1	1016-2 #2		0.065	0.059	9.2	108	0.00
57	l1	1016-3 #2		0.128	0.107	16.4	100	0.00
58	l1	1016-4 #2		0.053	0.045	15.1	102	0.00
59	l1	1016-5 #2		0.042	0.034	19.0	98	0.00
60	l2	1260-1 #2		0.078	0.065	16.7	99	0.00
61	l2	1260-2 #2		0.091	0.084	7.7	110	0.00
62	l2	1260-3 #2		0.076	0.063	17.1	100	0.00
63	l2	1260-4 #2		0.150	0.110	26.7#	86	0.00
64	l2	1260-5 #2		0.104	0.082	21.2#	94	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 06 Dec 2023   9:27 am
Operator : pest2:sdc
Sample   : wg1860406-1,42,, +1660 pp11386 ccal lvi (Sig #1); +1660 pp11386 c
cal lvi (Sig #2)
Misc   : wg1860406,,ical20537
ALS Vial : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:36:01 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area% Dev(Min)

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 9:27 am
Operator : pest2:sdc
Sample : wg1860406-1,42,, +1660 pp11386 ccal lvi (Sig #1); +1660 pp11386 c
cal lvi (Sig #2)
Misc : wg1860406,,ical20537
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:36:01 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.182	1.249	206.8E6	303.6E6	25.000M2	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.464	1.620	242.5E6	297.1E6	19.233	14.743
	Spiked Amount	20.000	Range 30 - 150		Recovery =	96.17%	73.72%
3) s	Decachlorobi	4.025	4.546	384.0E6	420.1E6	33.821	30.268
	Spiked Amount	20.000	Range 30 - 150		Recovery =	169.10%#	151.34%#
	Target Compounds						
4) l1	1016-1	1.601	1.819	50488117	72657979	227.048M3	204.841M4
5) l1	1016-2	1.741	1.989	92117058	178.0E6	208.797M4	226.152M4
6) l1	1016-3	1.929	2.190	215.4E6	325.6E6	220.264M4	209.904M4
7) l1	1016-4	1.983	2.250	95043557	136.7E6	225.621M4	210.610M4
8) l1	1016-5	2.153	2.460	92834661	103.4E6	215.606M4	202.429M4
	Sum 1016-1			545.9E6	816.4E6	1097.336	1053.936
	Average 1016-1					219.467	210.787
9) l2	1260-1	2.693	3.069	138.1E6	197.6E6	220.504M4	208.305M4
10) l2	1260-2	2.823	3.172	232.4E6	256.4E6	242.275M4	232.378M4
11) l2	1260-3	3.138	3.563	130.0E6	191.0E6	203.500M4	205.799M4
12) l2	1260-4	3.293	3.694	242.0E6	333.4E6	180.205M4	182.649M4

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 9:27 am
Operator : pest2:sdc
Sample : wg1860406-1,42,, +1660 pp11386 ccal lvi (Sig #1); +1660 pp11386 c
cal lvi (Sig #2)
Misc : wg1860406,,ical20537
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:36:01 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13) l2 1260-5	3.441	3.896	204.4E6	248.0E6	206.458M4	197.202M4
Sum 1260-1			947.0E6	1226.3E6	1052.943	1026.332
Average 1260-1					210.589	205.266
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 9:27 am
Operator : pest2:sdc
Sample : wg1860406-1,42,, +1660 pp11386 ccal lvi (Sig #1); +1660 pp11386 c
cal lvi (Sig #2)
Misc : wg1860406,,ical20537
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:36:01 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

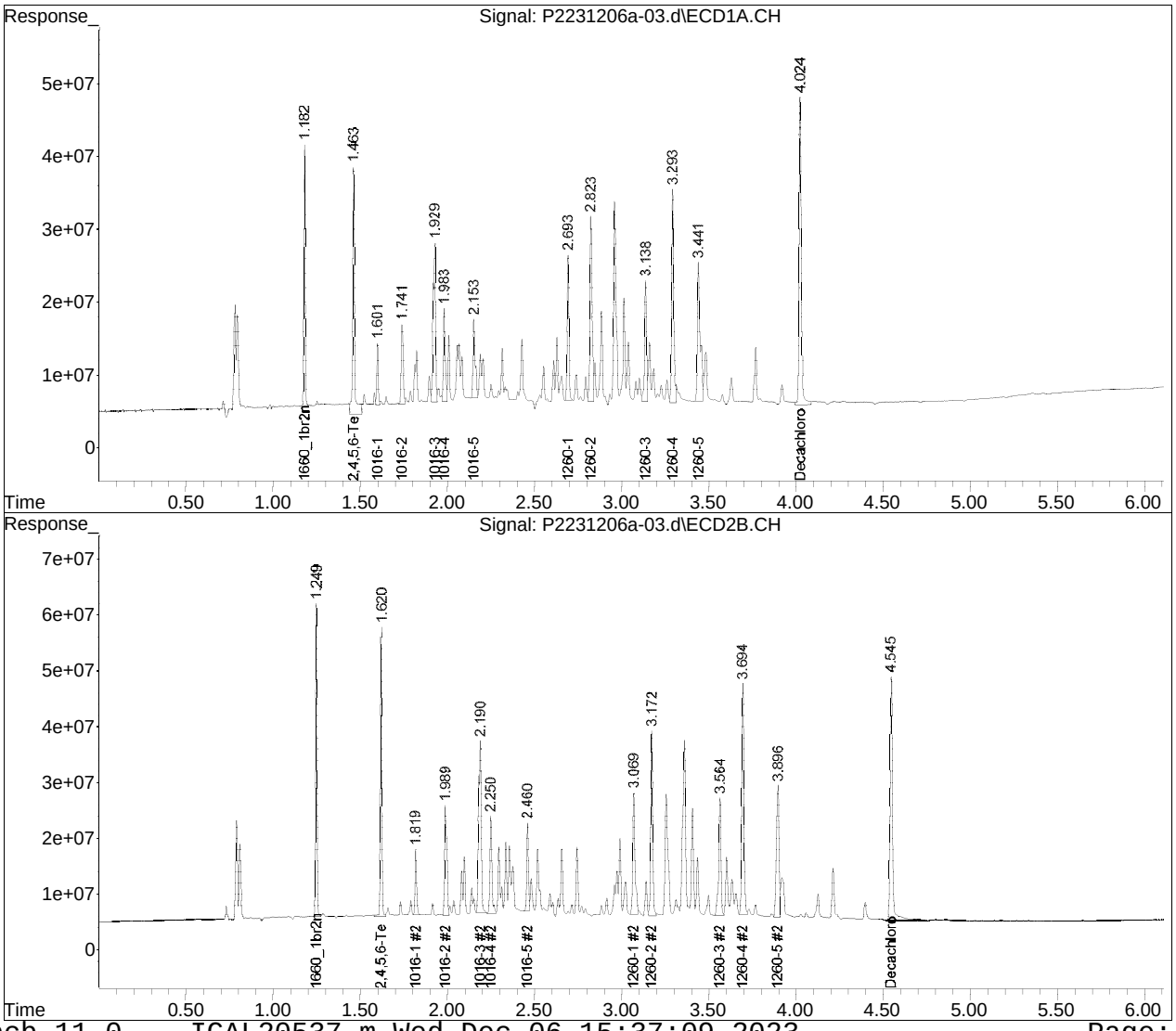
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 9:27 am
Operator : pest2:sdc
Sample : wg1860406-1,42,, +1660 pp11386 ccal lvi (Sig #1); +1660 pp11386 c
Misc : wg1860406,,ical20537
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:36:01 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

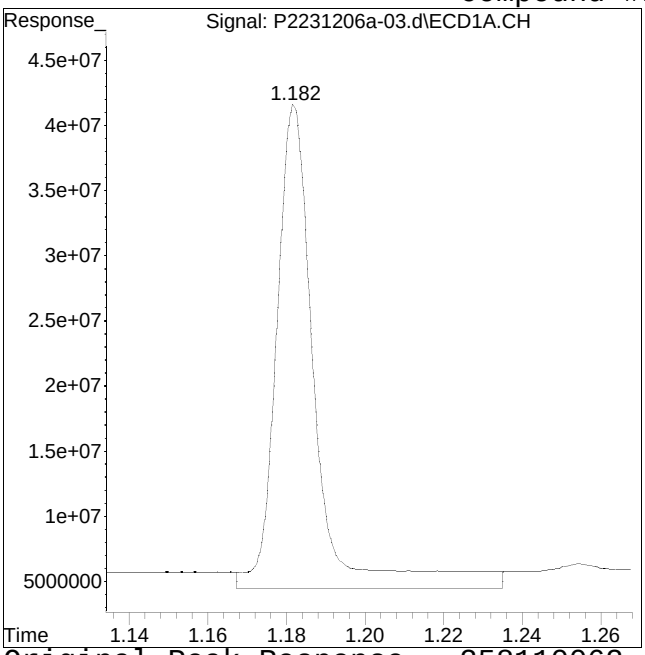
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

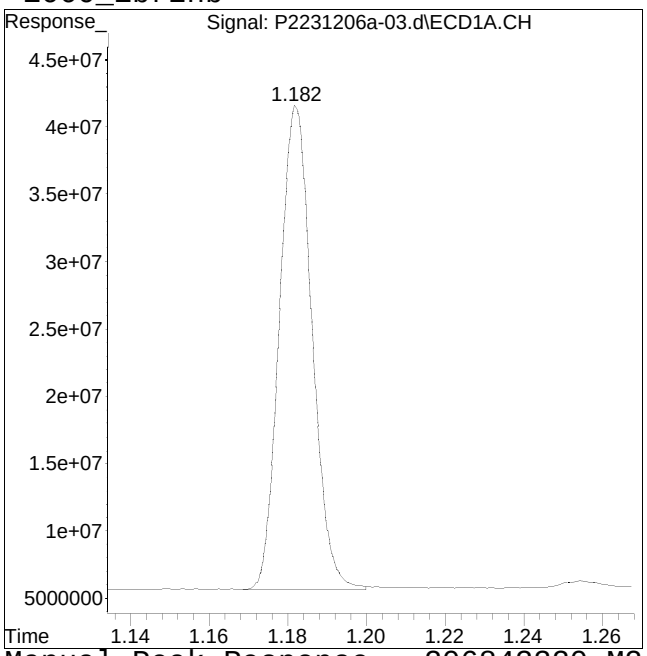


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #1: 1660_1br2nb



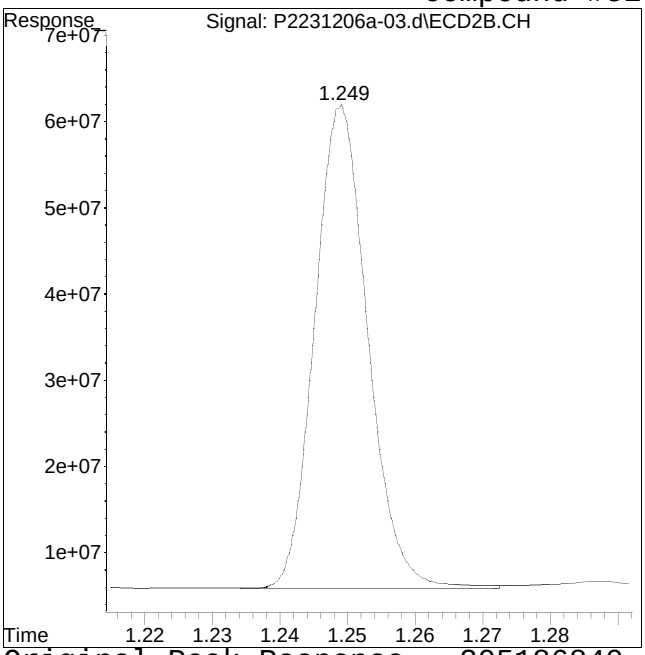


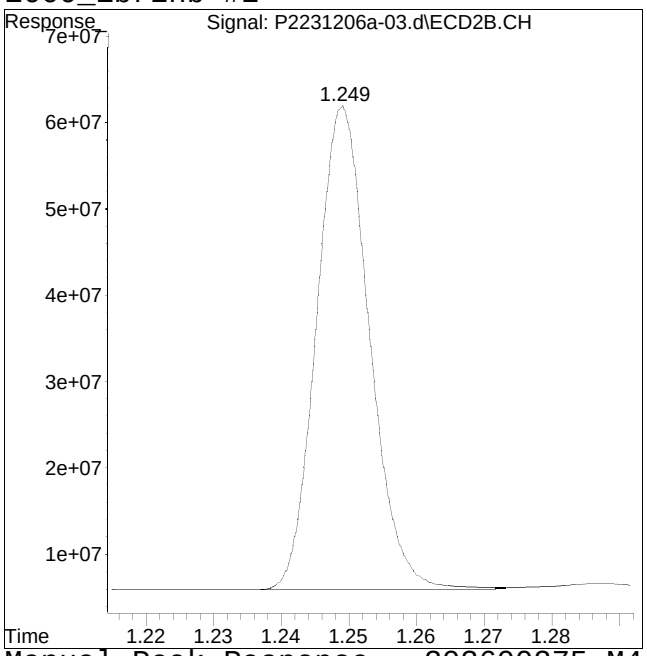
Original Peak Response = 258110062 Manual Peak Response = 206843320 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #52: 1660_1br2nb #2



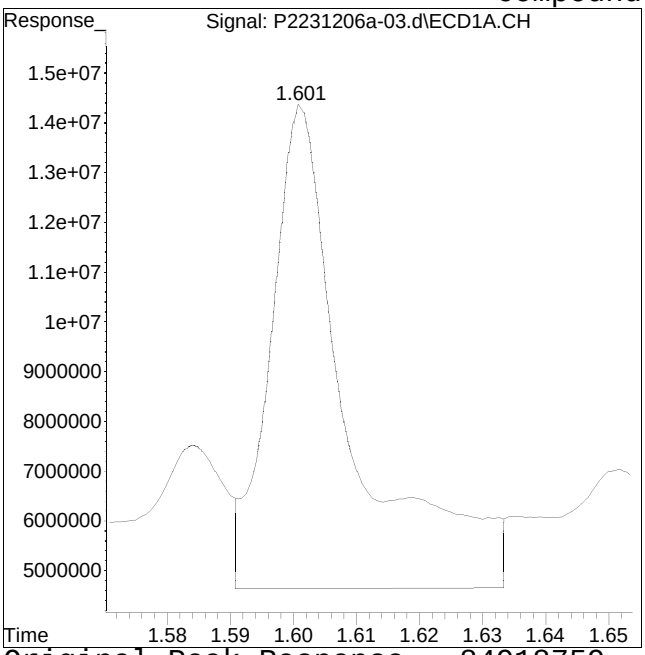


Original Peak Response = 305186840 Manual Peak Response = 303600275 M4
M4 = Poor automated baseline construction.

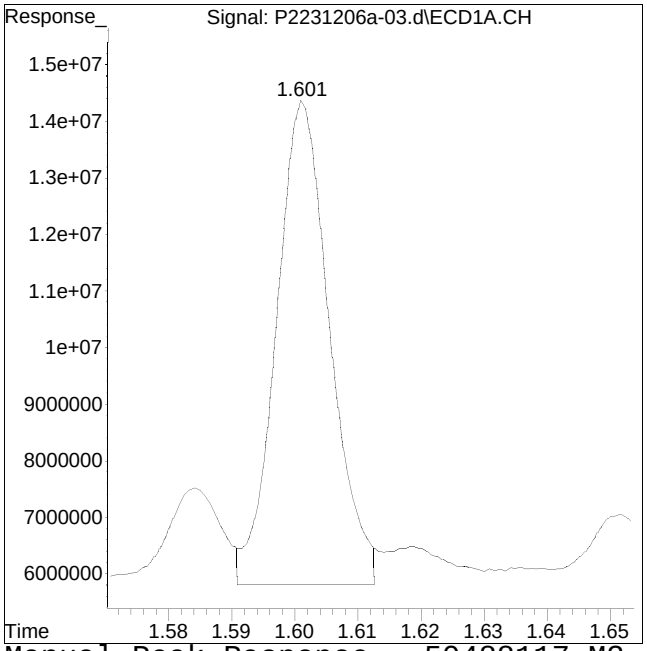
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #4: 1016-1



Original Peak Response = 84918759



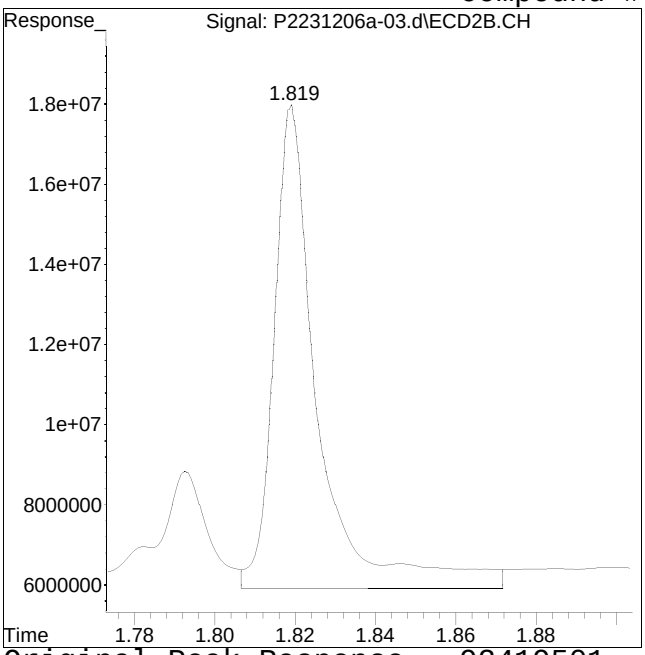
Manual Peak Response = 50488117 M3

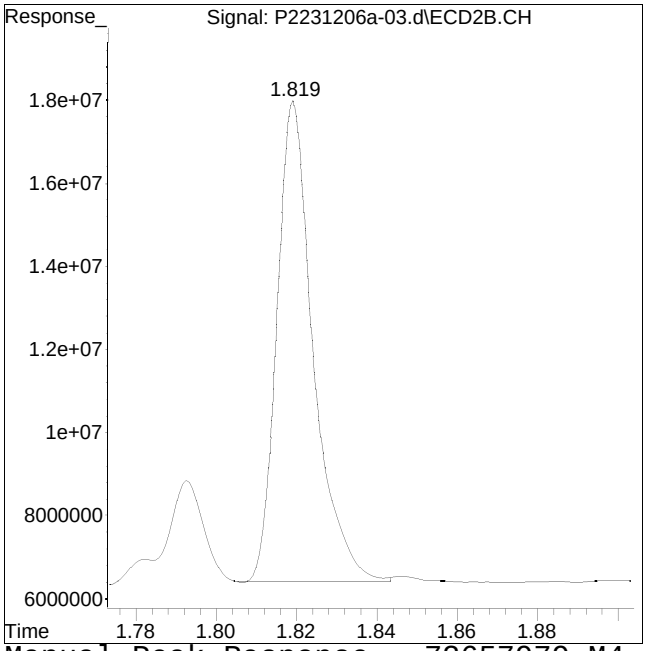
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #55: 1016-1 #2



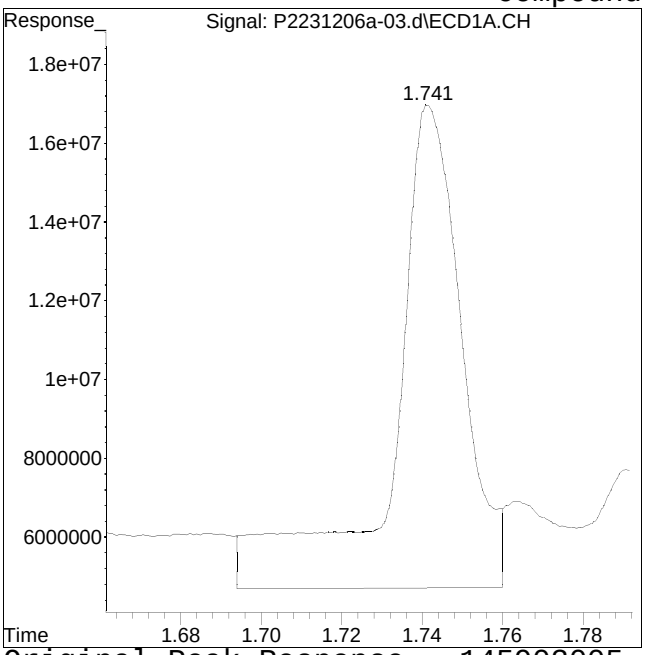


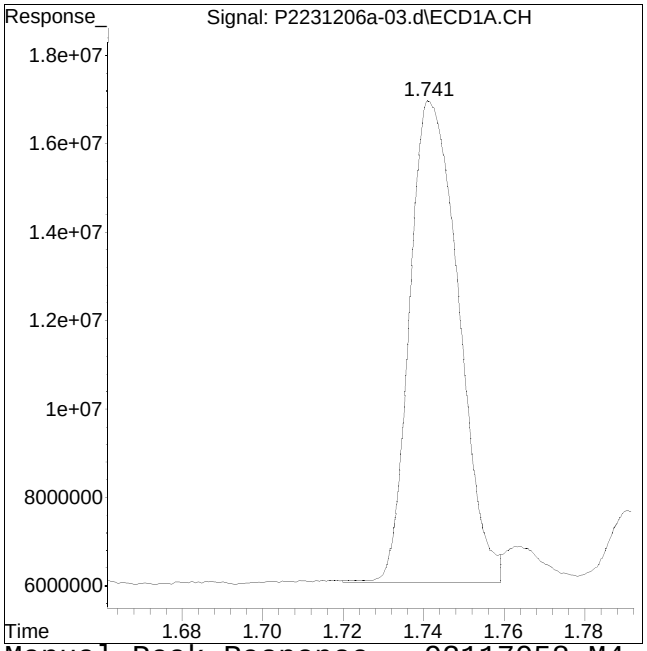
Original Peak Response = 92419501 Manual Peak Response = 72657979 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #5: 1016-2



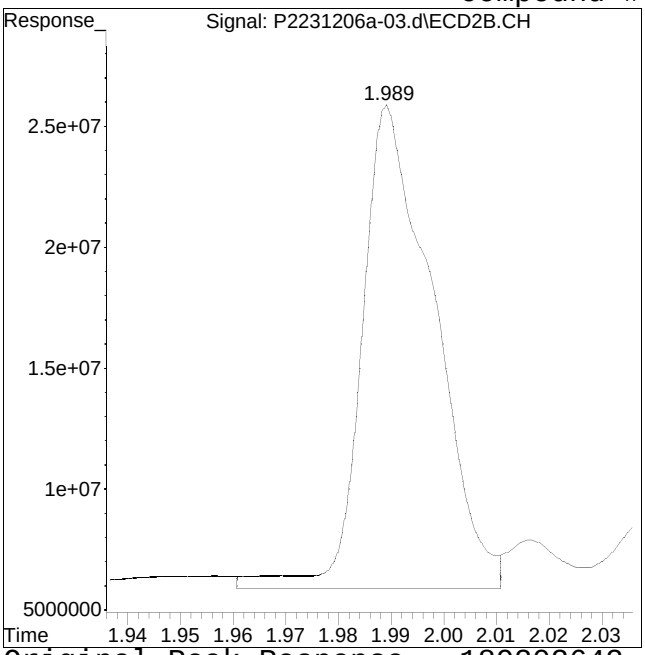


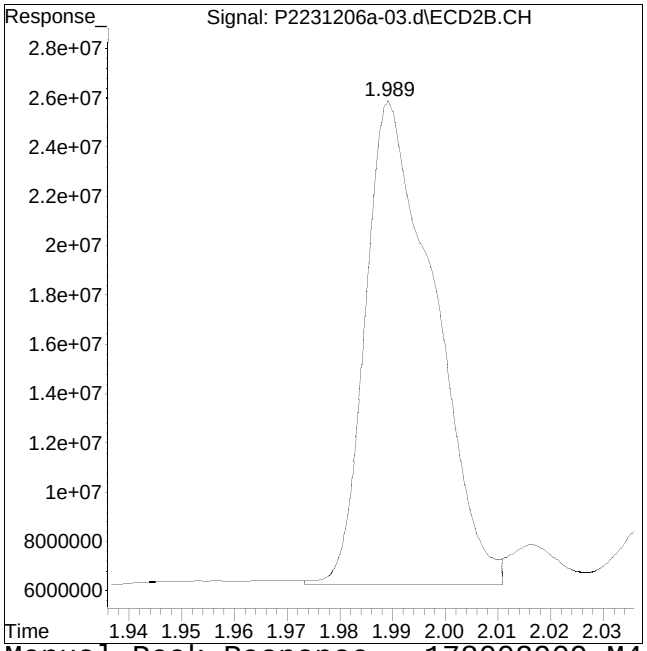
Original Peak Response = 145903005 Manual Peak Response = 92117058 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #56: 1016-2 #2



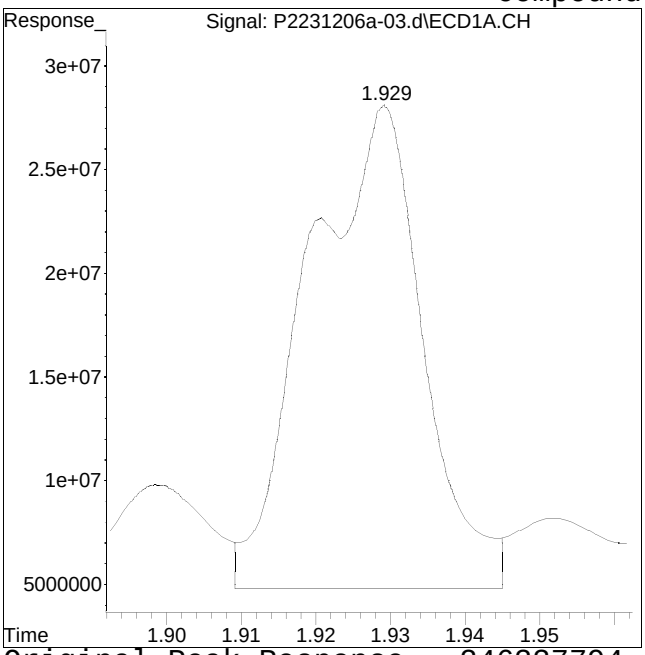


Original Peak Response = 189202642 Manual Peak Response = 178002909 M4
M4 = Poor automated baseline construction.

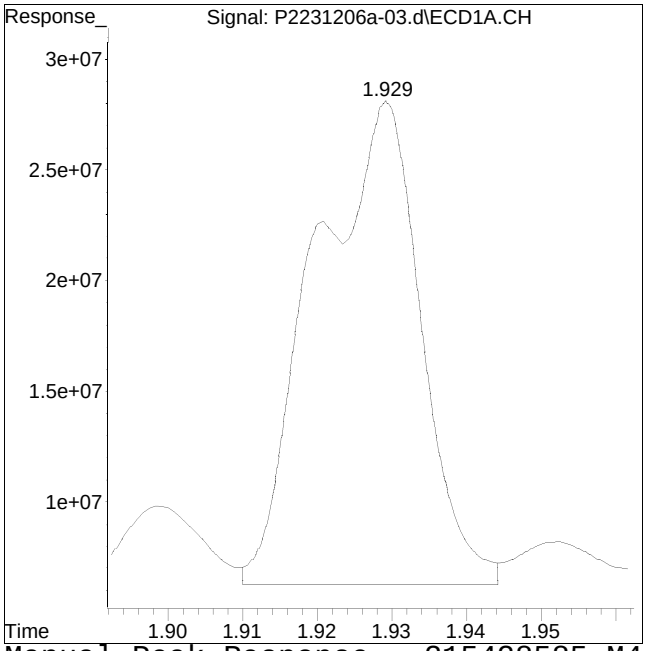
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #6: 1016-3



Original Peak Response = 246337794



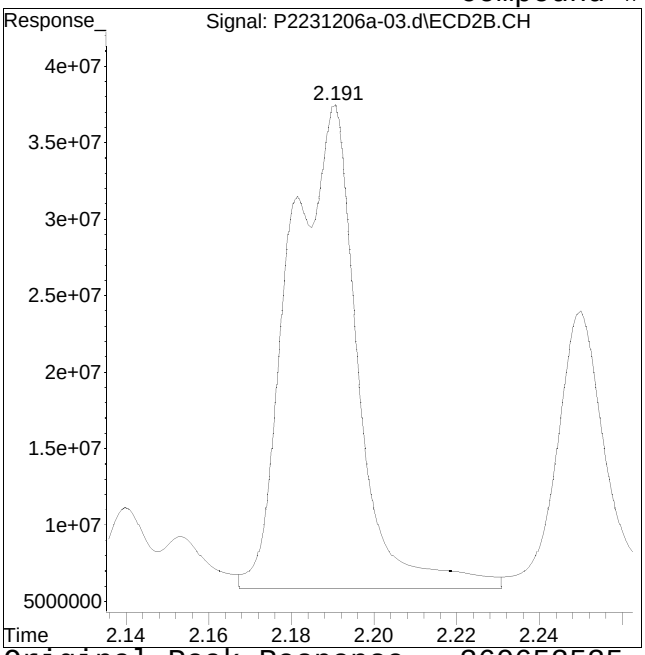
Manual Peak Response = 215428585 M4

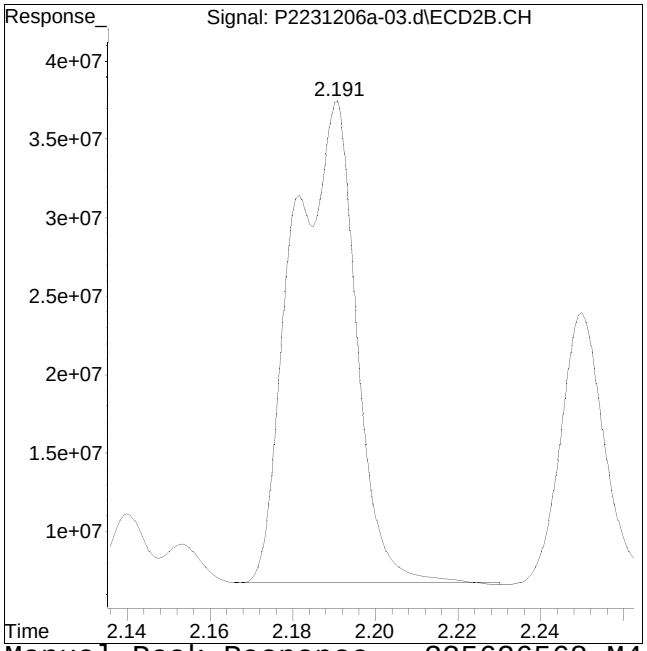
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #57: 1016-3 #2



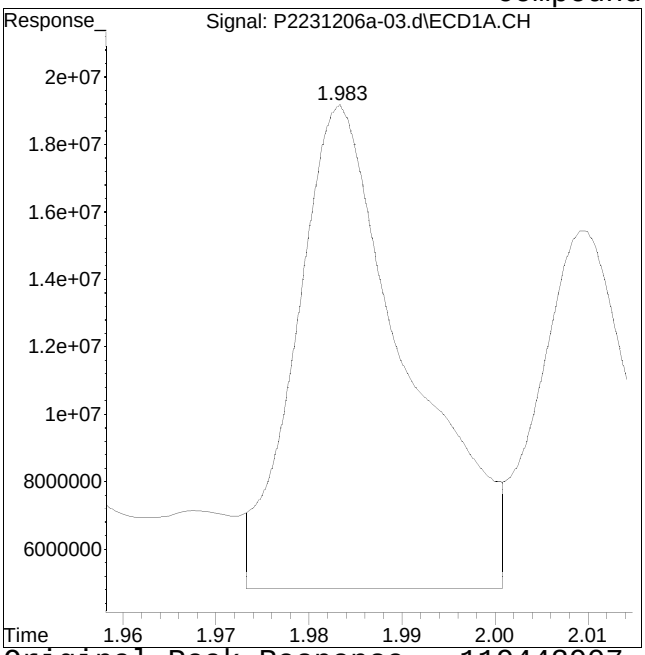


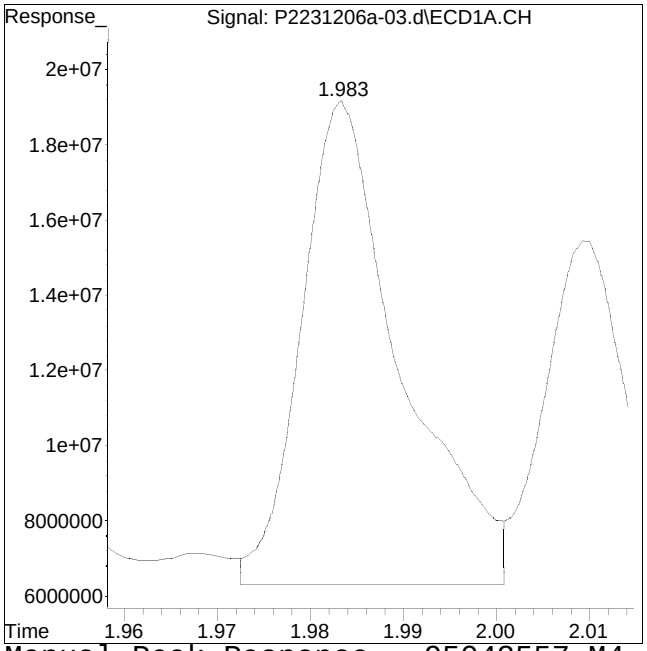
Original Peak Response = 360652535 Manual Peak Response = 325626568 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #7: 1016-4



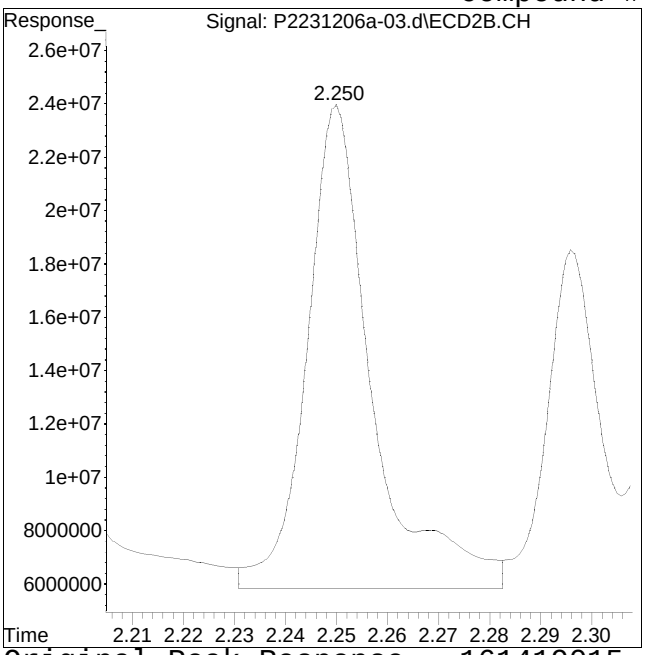


Original Peak Response = 119442907 Manual Peak Response = 95043557 M4
M4 = Poor automated baseline construction.

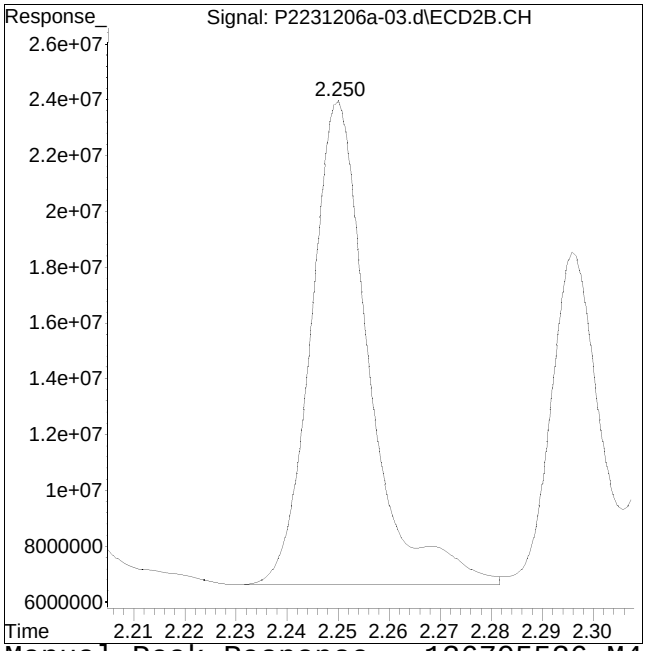
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #58: 1016-4 #2



Original Peak Response = 161419015



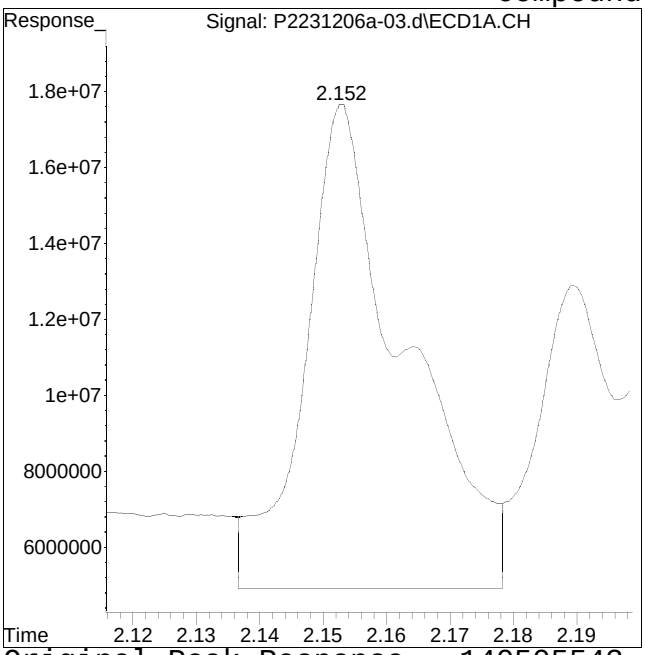
Manual Peak Response = 136705536 M4

M4 = Poor automated baseline construction.

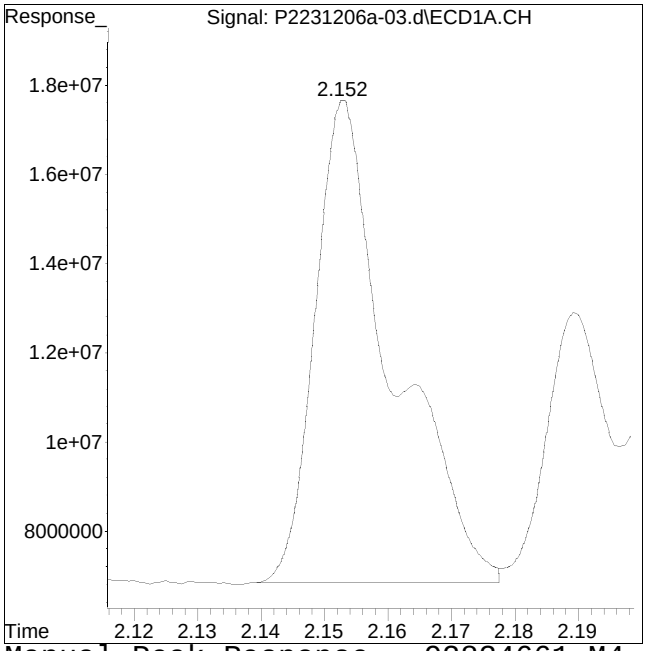
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #8: 1016-5



Original Peak Response = 140505543



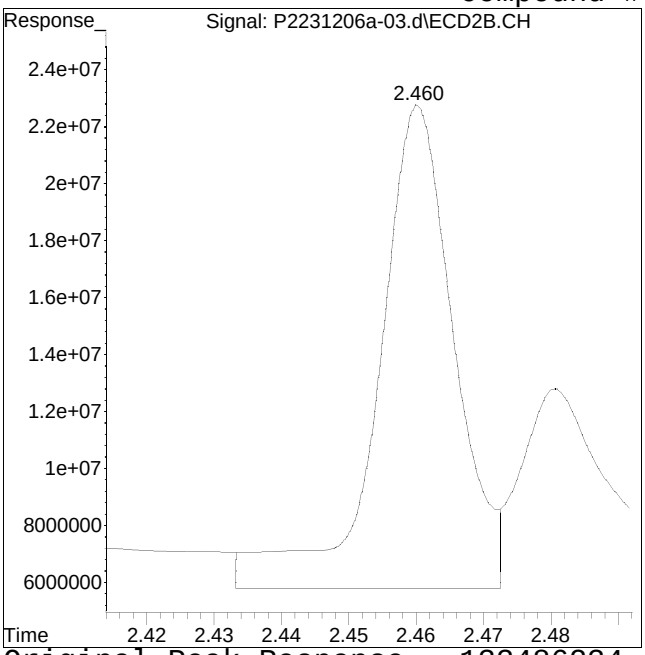
Manual Peak Response = 92834661 M4

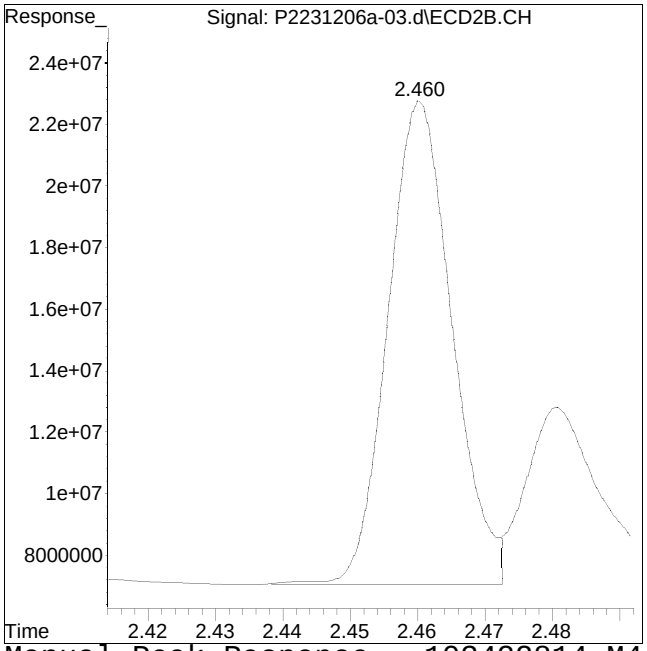
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #59: 1016-5 #2



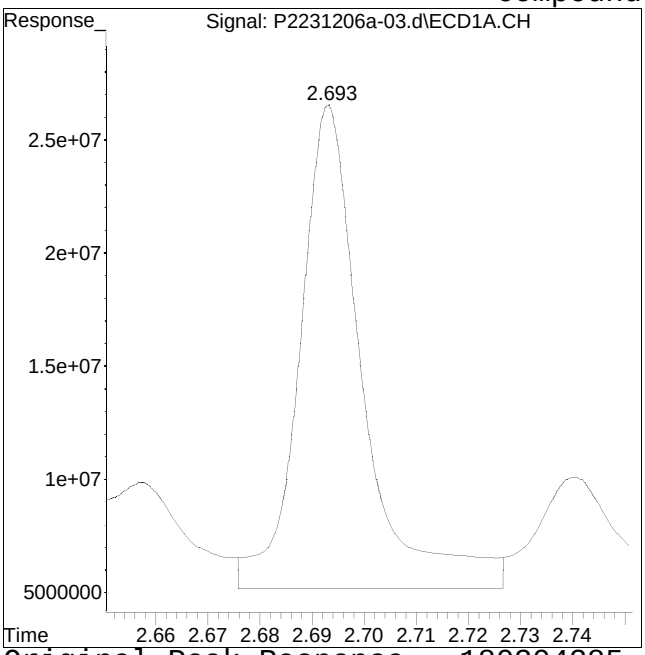


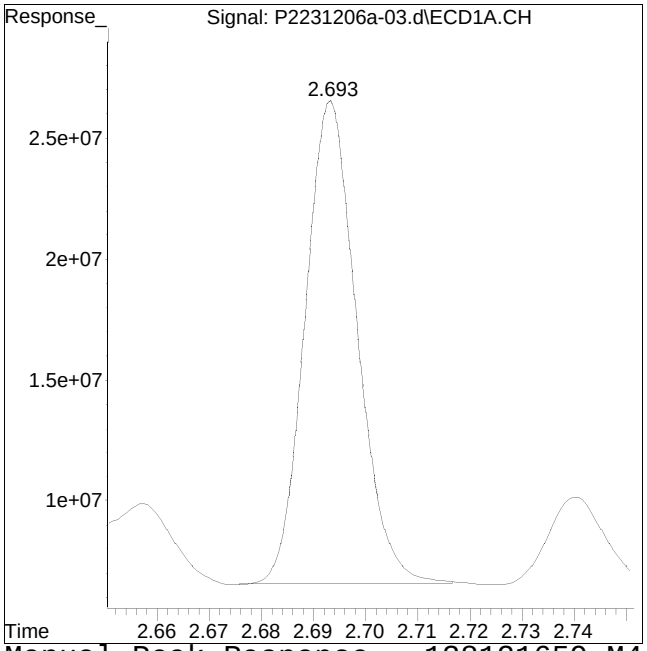
Original Peak Response = 133486234 Manual Peak Response = 103422814 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #9: 1260-1



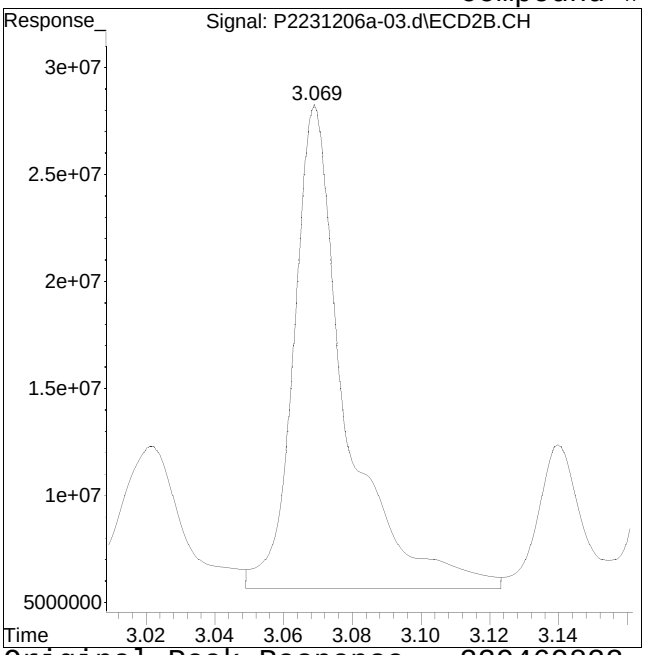


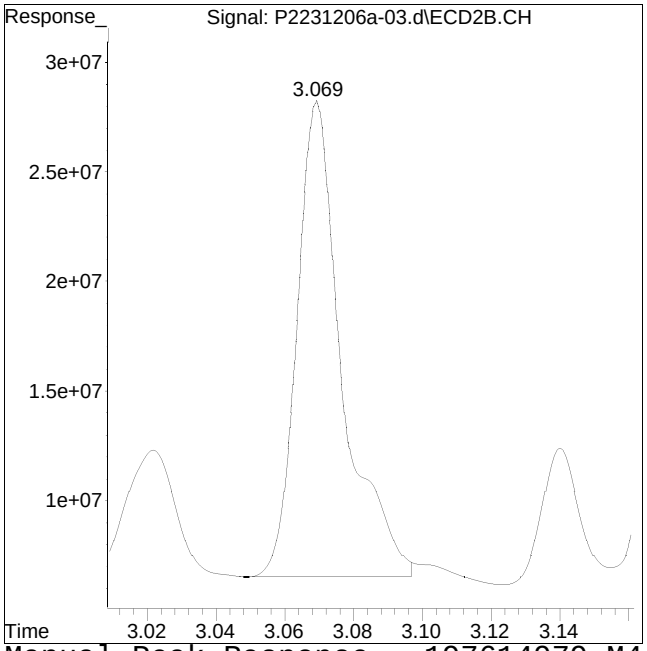
Original Peak Response = 180304385 Manual Peak Response = 138121659 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #60: 1260-1 #2



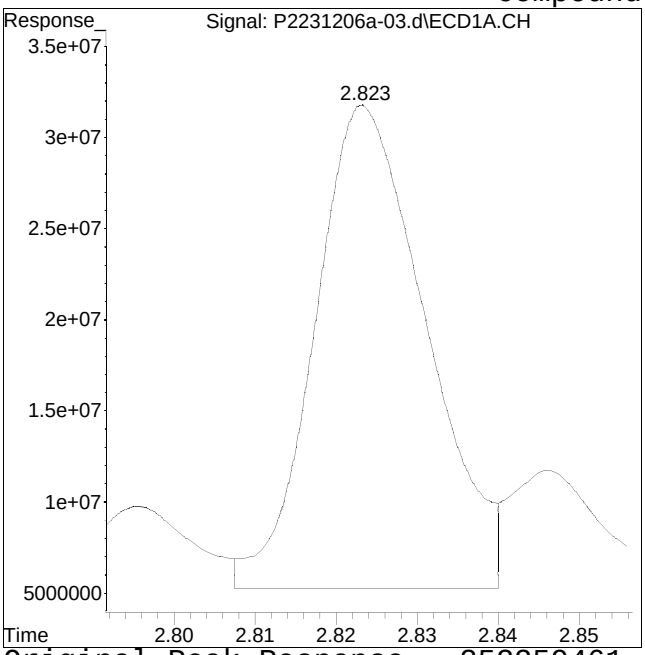


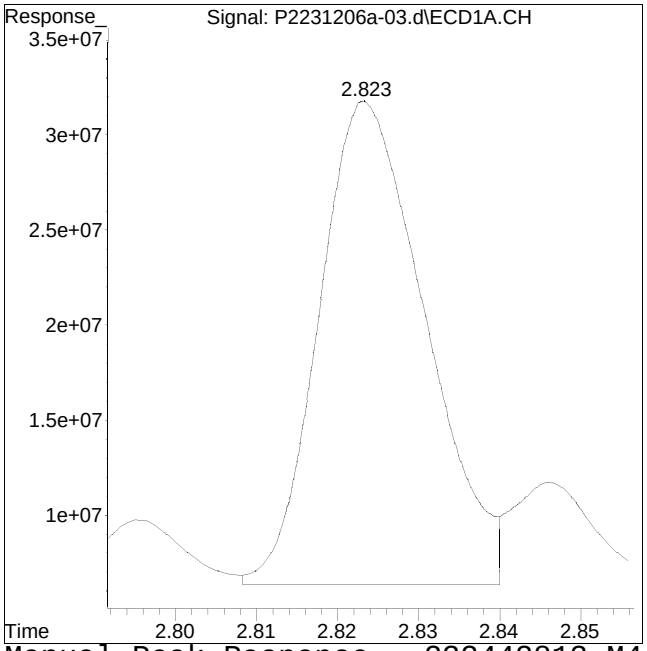
Original Peak Response = 239469822 Manual Peak Response = 197614979 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #10: 1260-2



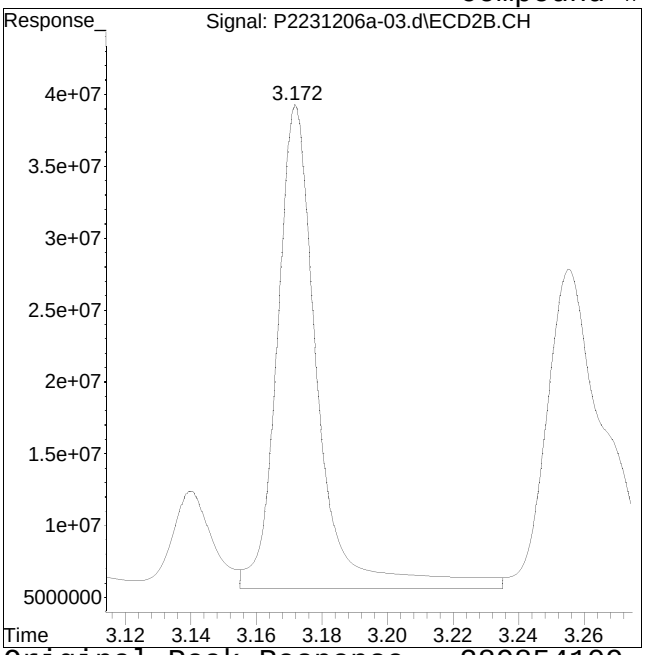


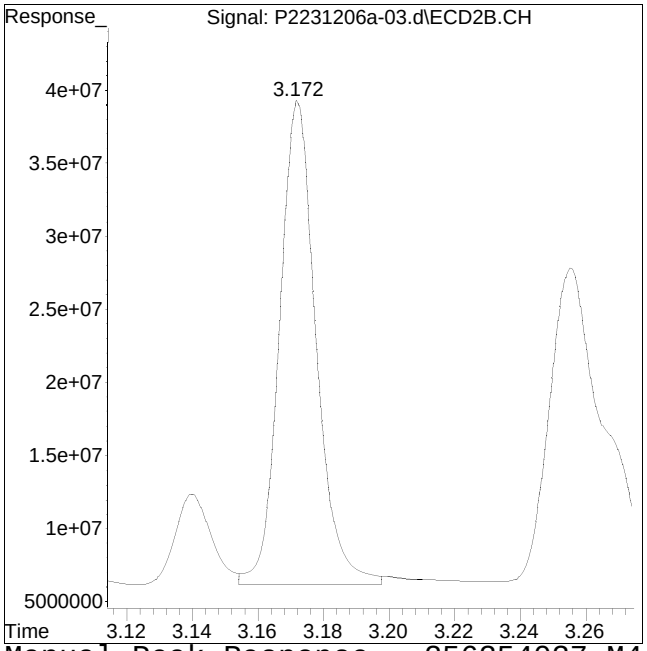
Original Peak Response = 252259461 Manual Peak Response = 232442813 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #61: 1260-2 #2



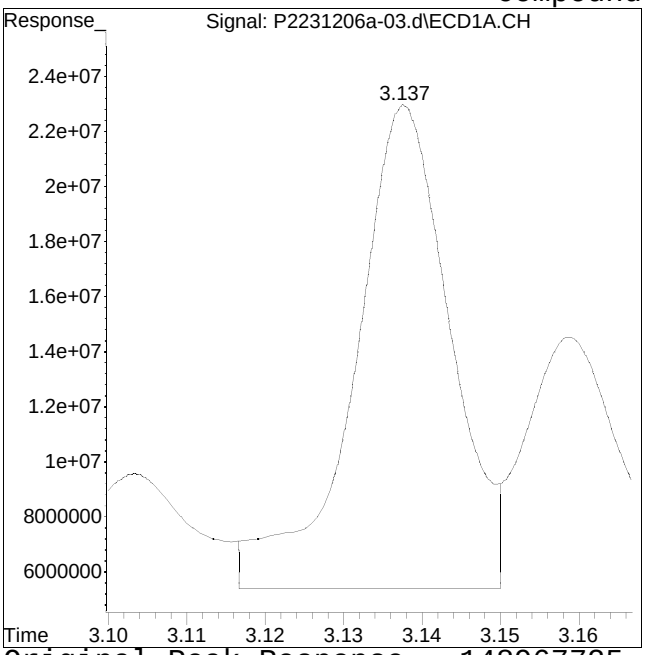


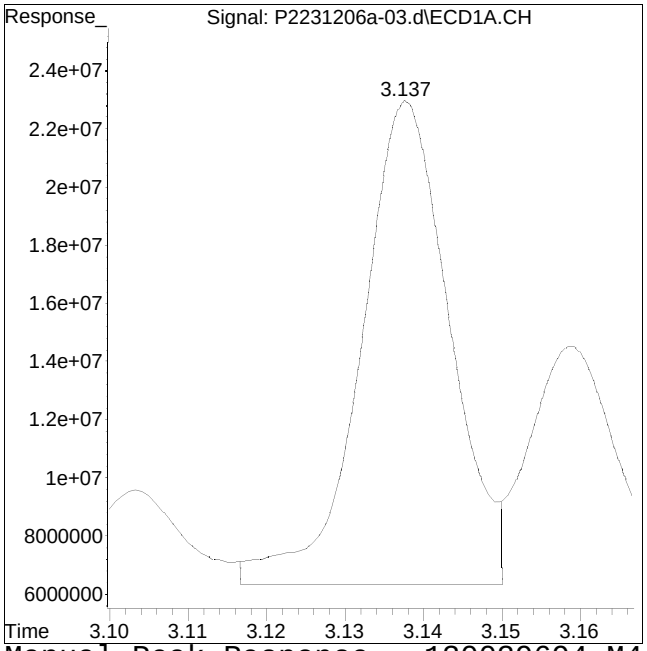
Original Peak Response = 289854109 Manual Peak Response = 256354037 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #11: 1260-3



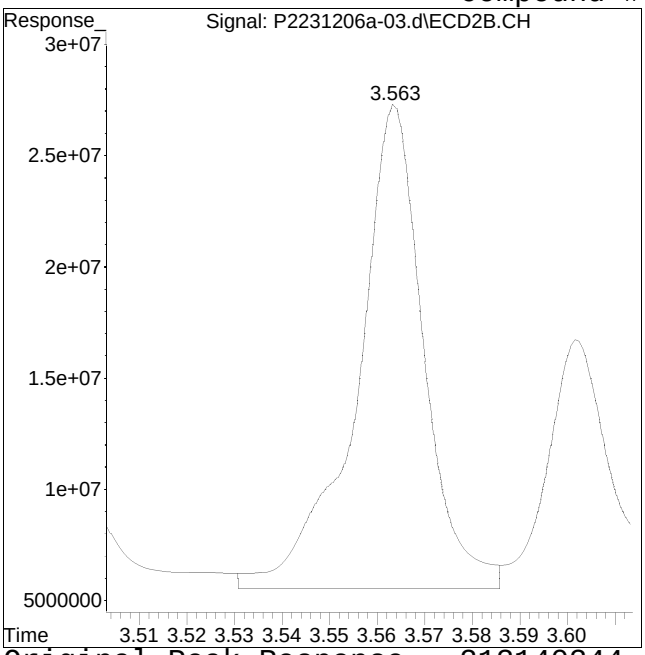


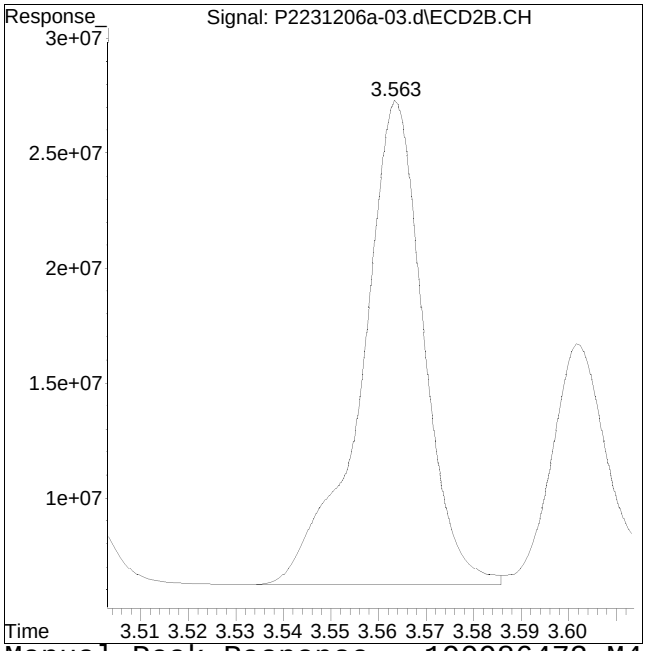
Original Peak Response = 148967725 Manual Peak Response = 130039694 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #62: 1260-3 #2



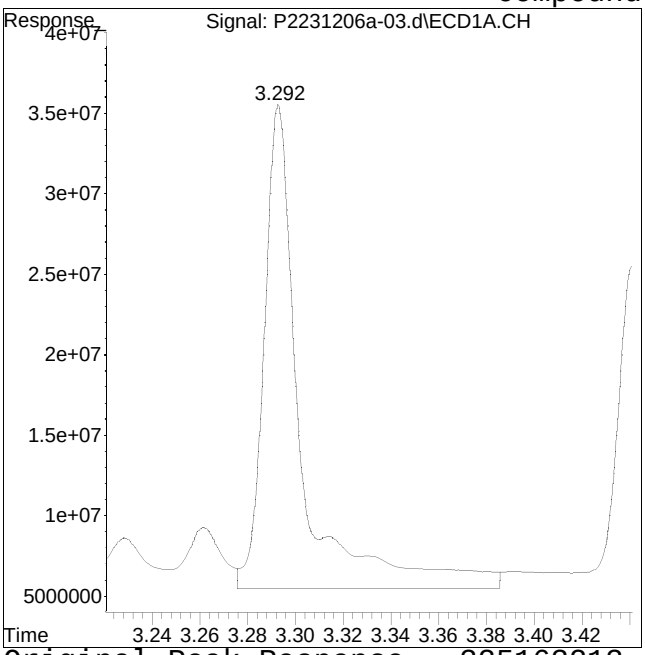


Original Peak Response = 213140344 Manual Peak Response = 190986473 M4
M4 = Poor automated baseline construction.

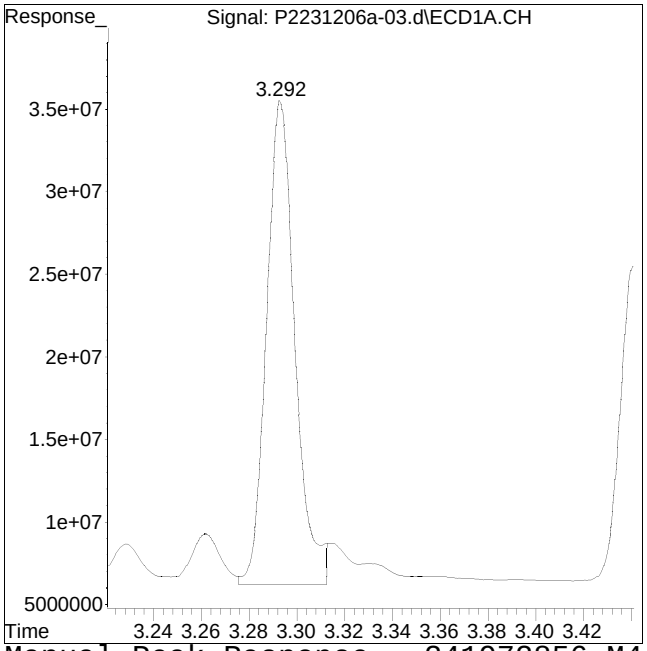
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #12: 1260-4



Original Peak Response = 325163213



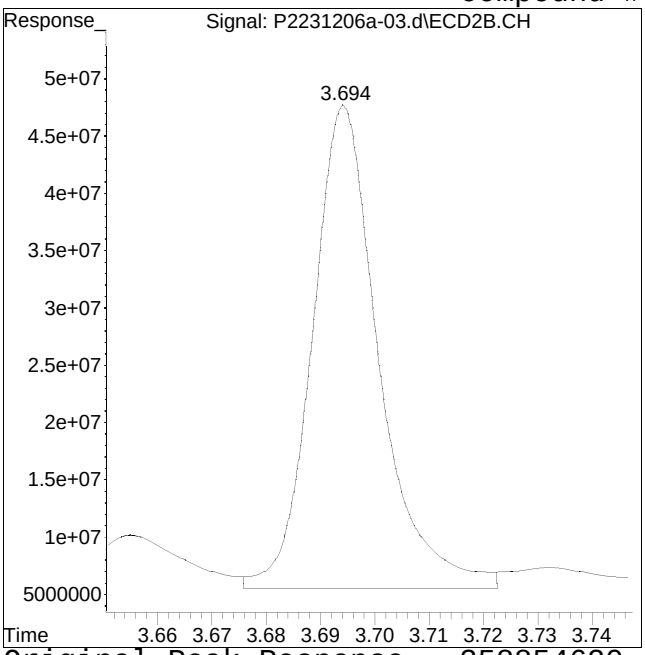
Manual Peak Response = 241972856 M4

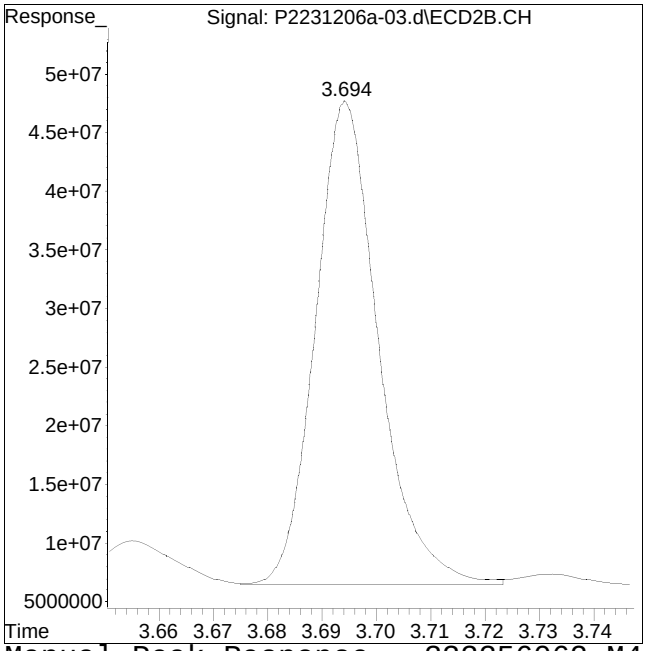
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #63: 1260-4 #2



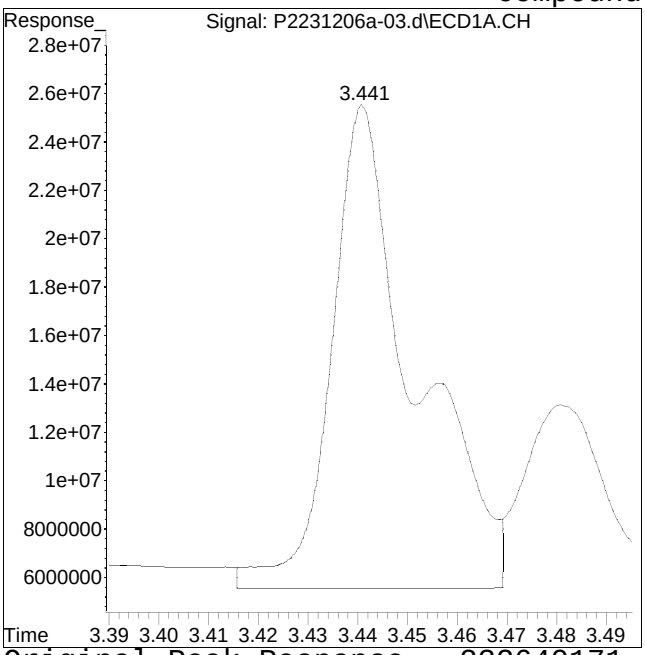


Original Peak Response = 358854620 Manual Peak Response = 333356062 M4
M4 = Poor automated baseline construction.

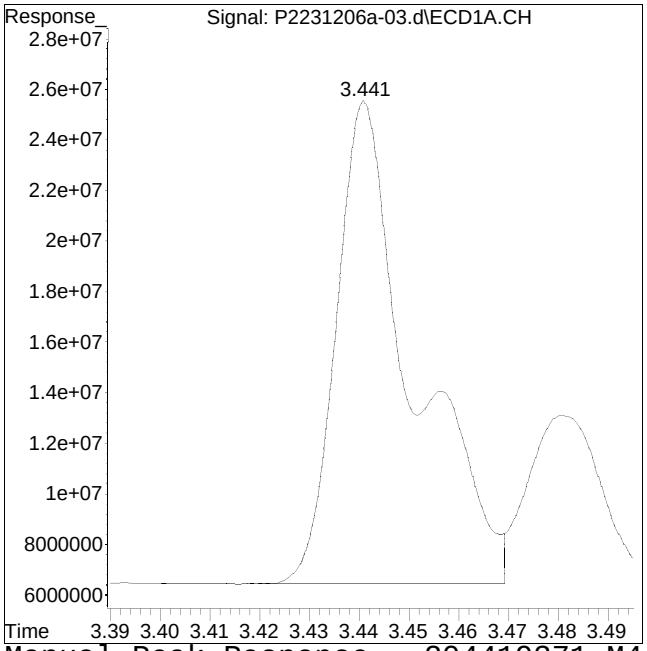
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #13: 1260-5



Original Peak Response = 232640171



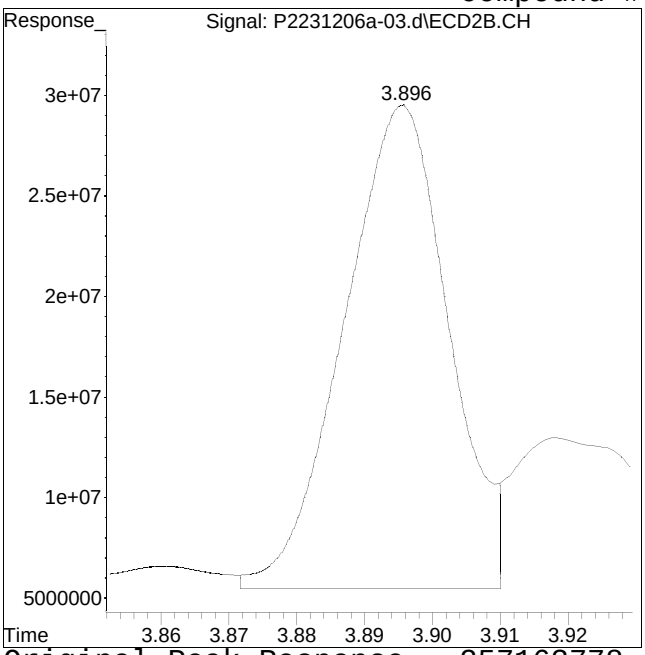
Manual Peak Response = 204419371 M4

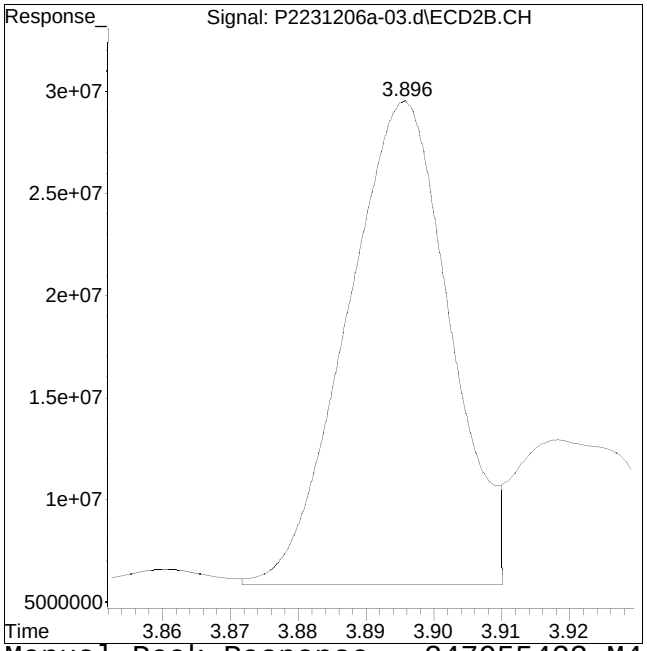
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-03.d Operator : pest2:sdc
Date Inj'd : 12/6/2023 9:27 am Instrument : Pest 2
Sample : wg1860406-1,42,, +1660 pp1Quant Date : 12/6/2023 9:35 am

Compound #64: 1260-5 #2





Original Peak Response = 257163778 Manual Peak Response = 247955423 M4
M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
PCBs

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**

No Detections Found

Aroclor Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:07 pm
Operator : pest2:meo
Sample : WG1859857-1,42,,
Misc : WG1860406,WG1859857,ical20537 (Sig #1); WG1860406,WG1860225,ical20537 (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:43:30 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.181	1.249	226.6E6	267.5E6	25.000	25.000
Standard Area 1 : #1 = 206843320				Recovery =	109.57%	
Standard Area 1 : #2 = 303600275				Recovery =	88.11%	
14) i 2154_1br2nb	1.181	1.249	226.6E6	267.5E6	25.000	25.000
23) i 4268_1br2nb	1.181	1.249	226.6E6	267.5E6	25.000	25.000
34) i 1248_1br2nb	1.181	1.249	226.6E6	267.5E6	25.000	25.000
40) i 3262_1br2nb	1.181	1.249	226.6E6	267.5E6	25.000	25.000
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.462	1.620	148.5E6	230.6E6	10.750M4	12.983
Spiked Amount 20.000	Range 30 - 150		Recovery =	53.75%	64.92%	
3) s Decachlorobi	4.026	4.545	156.1E6	179.1E6	12.551	14.646
Spiked Amount 20.000	Range 30 - 150		Recovery =	62.76%	73.23%	
Target Compounds						
4) l1 1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1 1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016-1			0	0	N.D.	N.D.
Average 1016-1					0.000	0.000
9) l2 1260-1	0.000	0.000	0	0	N.D.	N.D.
10) l2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2 1260-3	0.000	0.000	0	0	N.D.	N.D.
12) l2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:07 pm
Operator : pest2:meo
Sample : WG1859857-1,42,,
Misc : WG1860406,WG1859857,ical20537 (Sig #1); WG1860406,WG1860225,ical20537 (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:43:30 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:07 pm
Operator : pest2:meo
Sample : WG1859857-1,42,,
Misc : WG1860406,WG1859857,ical20537 (Sig #1); WG1860406,WG1860225,ical20537 (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:43:30 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D.	N.D.
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

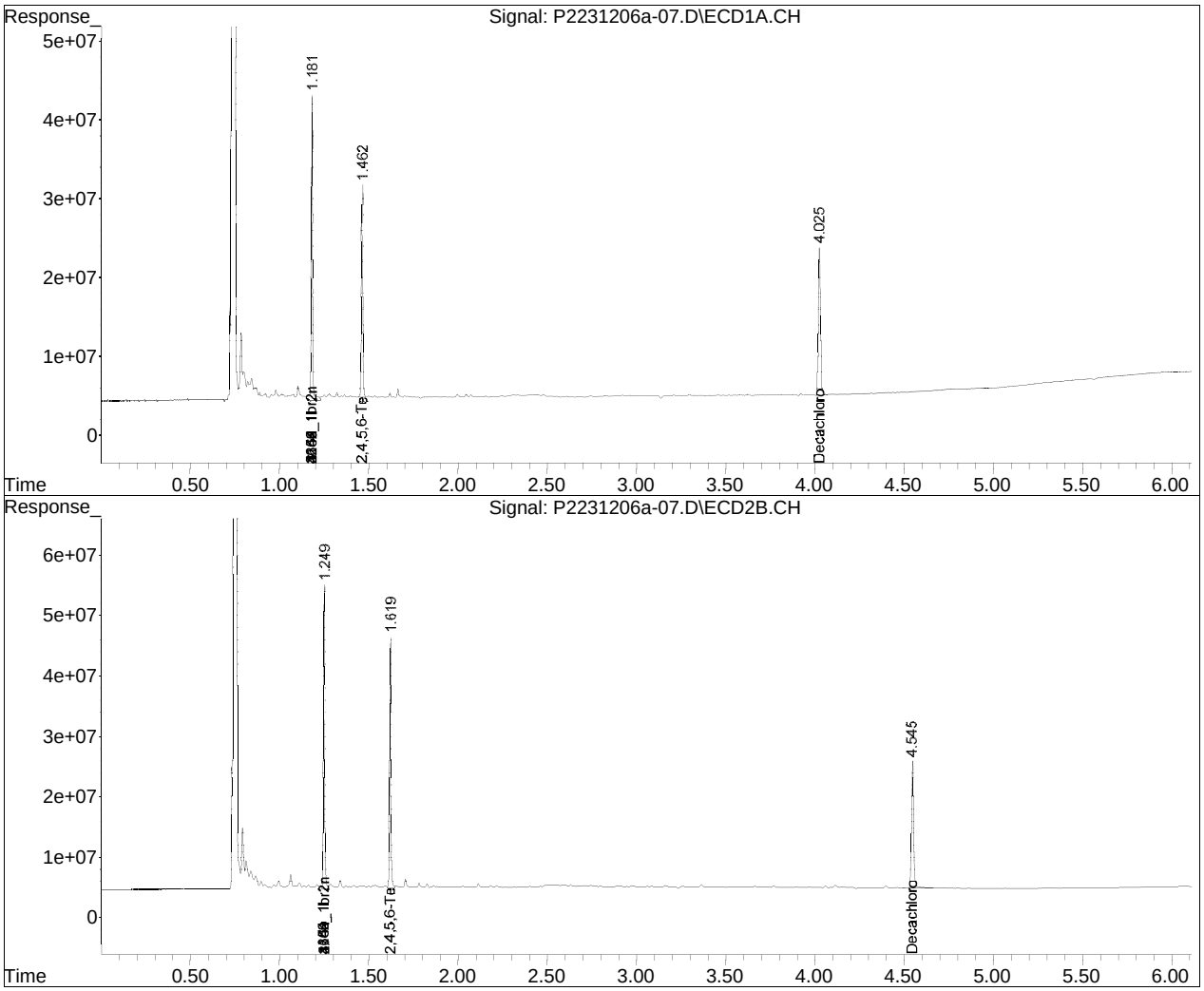
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:07 pm
Operator : pest2:meo
Sample : WG1859857-1,42,,
Misc : WG1860406,WG1859857,ical20537 (Sig #1); WG1860406,WG1860225,ical20
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:43:30 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

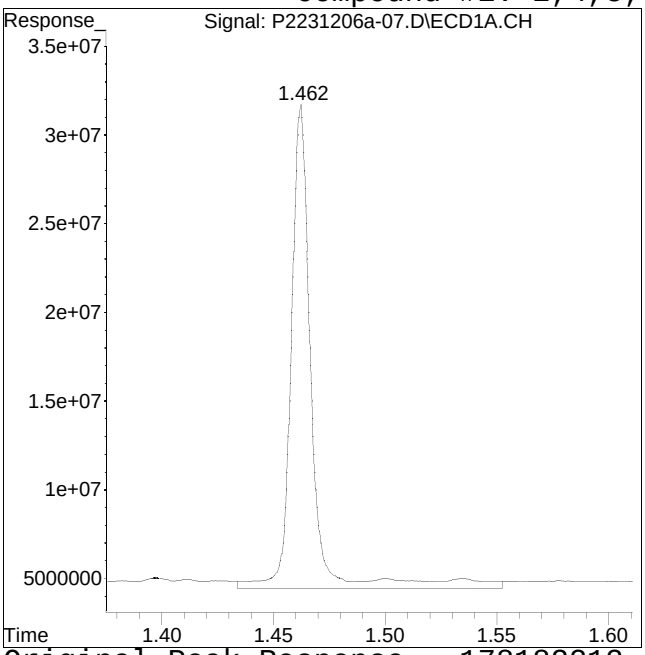
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

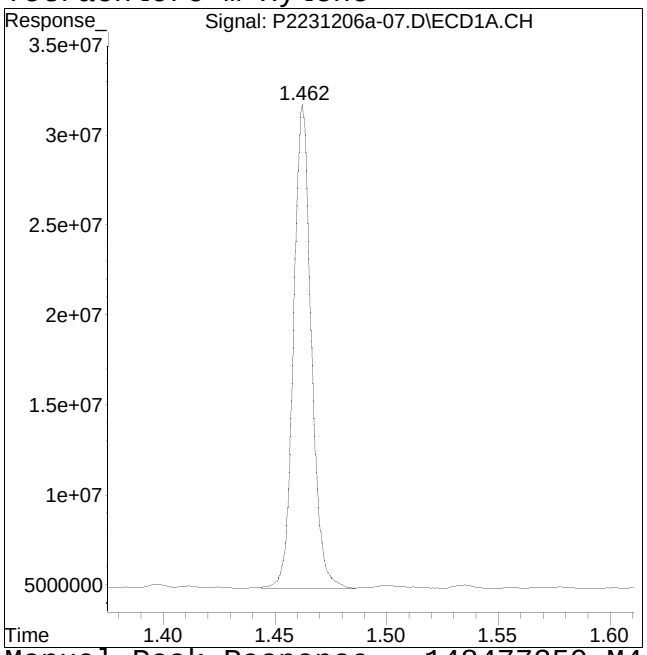


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-07.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:07 pm Instrument : Pest 2
Sample : WG1859857-1,42,, Quant Date : 12/6/2023 3:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





Original Peak Response = 178182212 Manual Peak Response = 148477350 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:19 pm
Operator : pest2:meo
Sample : WG1860227-1,42,, 225
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:06:39 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1660_1br2nb	1.184	1.252	226.7E6	280.7E6	25.000	25.000
	Standard Area 1 : #1 = 206843320				Recovery =	109.59%	
	Standard Area 1 : #2 = 303600275				Recovery =	92.45%	
14) i	2154_1br2nb	1.184	1.252	226.7E6	280.7E6	25.000	25.000
23) i	4268_1br2nb	1.184	1.252	226.7E6	280.7E6	25.000	25.000
34) i	1248_1br2nb	1.184	1.252	226.7E6	280.7E6	25.000	25.000
40) i	3262_1br2nb	1.184	1.252	226.7E6	280.7E6	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.465	1.623	178.2E6	286.8E6	12.900M4	15.390
	Spiked Amount 20.000	Range 30 - 150			Recovery =	64.50%	76.95%
3) s	Decachlorobi	4.027	4.548	164.5E6	189.0E6	13.221	14.730
	Spiked Amount 20.000	Range 30 - 150			Recovery =	66.11%	73.65%
Target Compounds							
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D.	N.D.
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:19 pm
Operator : pest2:meo
Sample : WG1860227-1,42,, 225
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:06:39 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D.	N.D.
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D.	N.D.
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:19 pm
Operator : pest2:meo
Sample : WG1860227-1,42,, 225
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:06:39 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
42) l5 1232-2	0.000	0.000	0	0	N.D.	N.D.
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

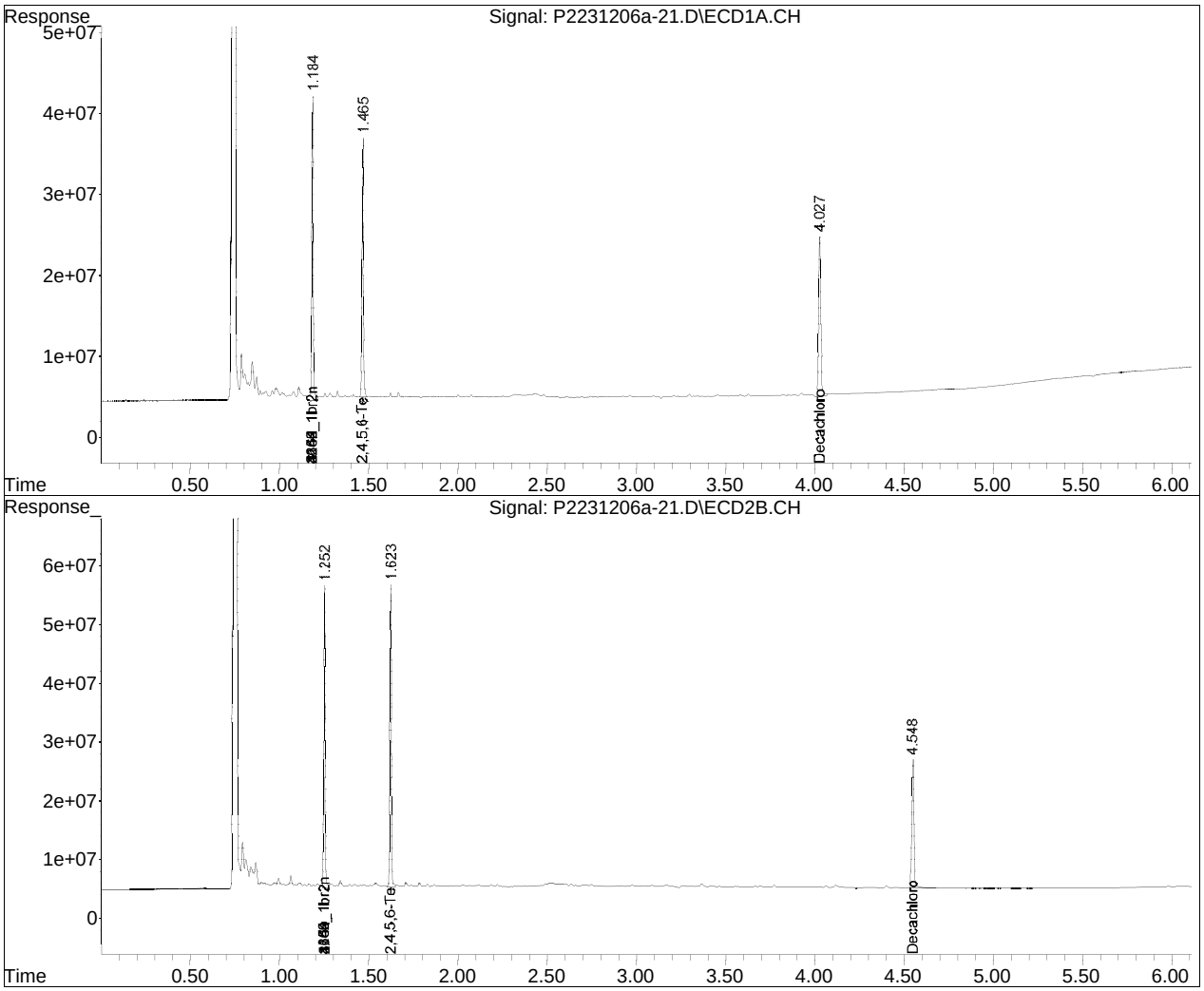
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedP2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-21.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:19 pm
Operator : pest2:meo
Sample : WG1860227-1,42,, 225
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:06:39 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

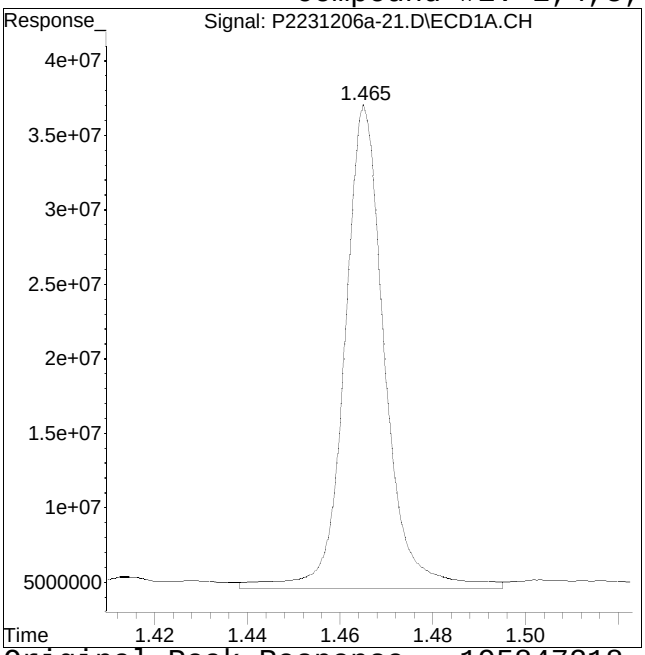
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



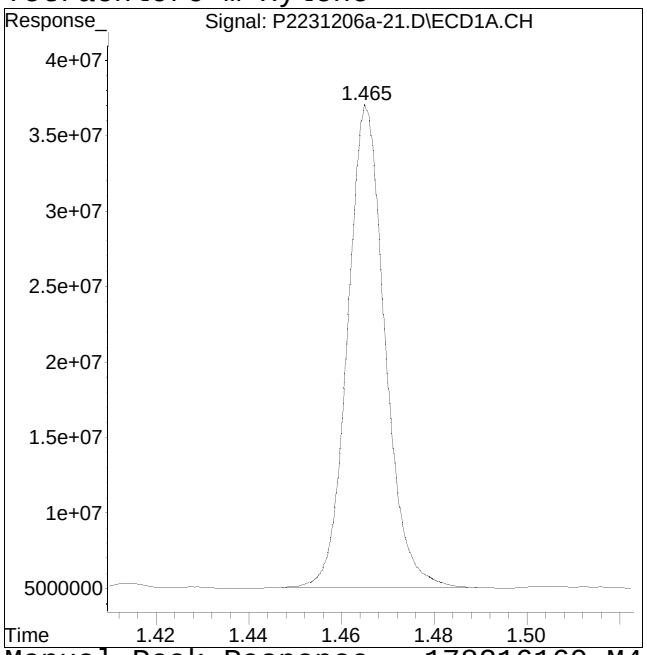
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-21.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:19 pm Instrument : Pest 2
Sample : WG1860227-1,42,, 225 Quant Date : 12/6/2023 3:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 195847218



Manual Peak Response = 178216160 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:16 pm
Operator : pest2:meo
Sample : WG1859857-2,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:44:23 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.181	1.250	207.8E6	273.9E6	25.000M4	25.000
Standard Area 1 : #1 = 206843320				Recovery =	100.46%	
Standard Area 1 : #2 = 303600275				Recovery =	90.20%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.463	1.621	147.3E6	230.7E6	11.632M4	12.687
Spiked Amount 20.000	Range 30 - 150		Recovery =	58.16%	63.43%	
3) s Decachlorobi	4.025	4.546	152.5E6	176.9E6	13.375	14.127
Spiked Amount 20.000	Range 30 - 150		Recovery =	66.88%	70.64%	
Target Compounds						
4) l1 1016-1	1.600	1.819	37147020	58490597	166.295M4	182.808
5) l1 1016-2	1.741	1.990	73332239	121.9E6	165.465	171.719
6) l1 1016-3	1.928	2.191	140.0E6	232.3E6	142.499M4	165.989
7) l1 1016-4	1.983	2.251	67029318	99520331	158.397	169.974
8) l1 1016-5	2.152	2.461	69583367	84633326	160.873	183.643
Sum 1016-1			387.1E6	596.8E6	793.528	874.133
Average 1016-1					158.706	174.827
9) l2 1260-1	2.693	3.070	96366936	173.2E6	153.147	202.384
10) l2 1260-2	2.823	3.172	178.1E6	184.3E6	184.824	185.252
11) l2 1260-3	3.138	3.564	90957315	156.4E6	141.695	186.881
12) l2 1260-4	3.292	3.695	219.2E6	296.1E6	162.541M4	179.873
13) l2 1260-5	3.441	3.895	164.6E6	206.6E6	165.507	182.148
Sum 1260-1			749.3E6	1016.7E6	807.713	936.538
Average 1260-1					161.543	187.308
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:16 pm
Operator : pest2:meo
Sample : WG1859857-2,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:44:23 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

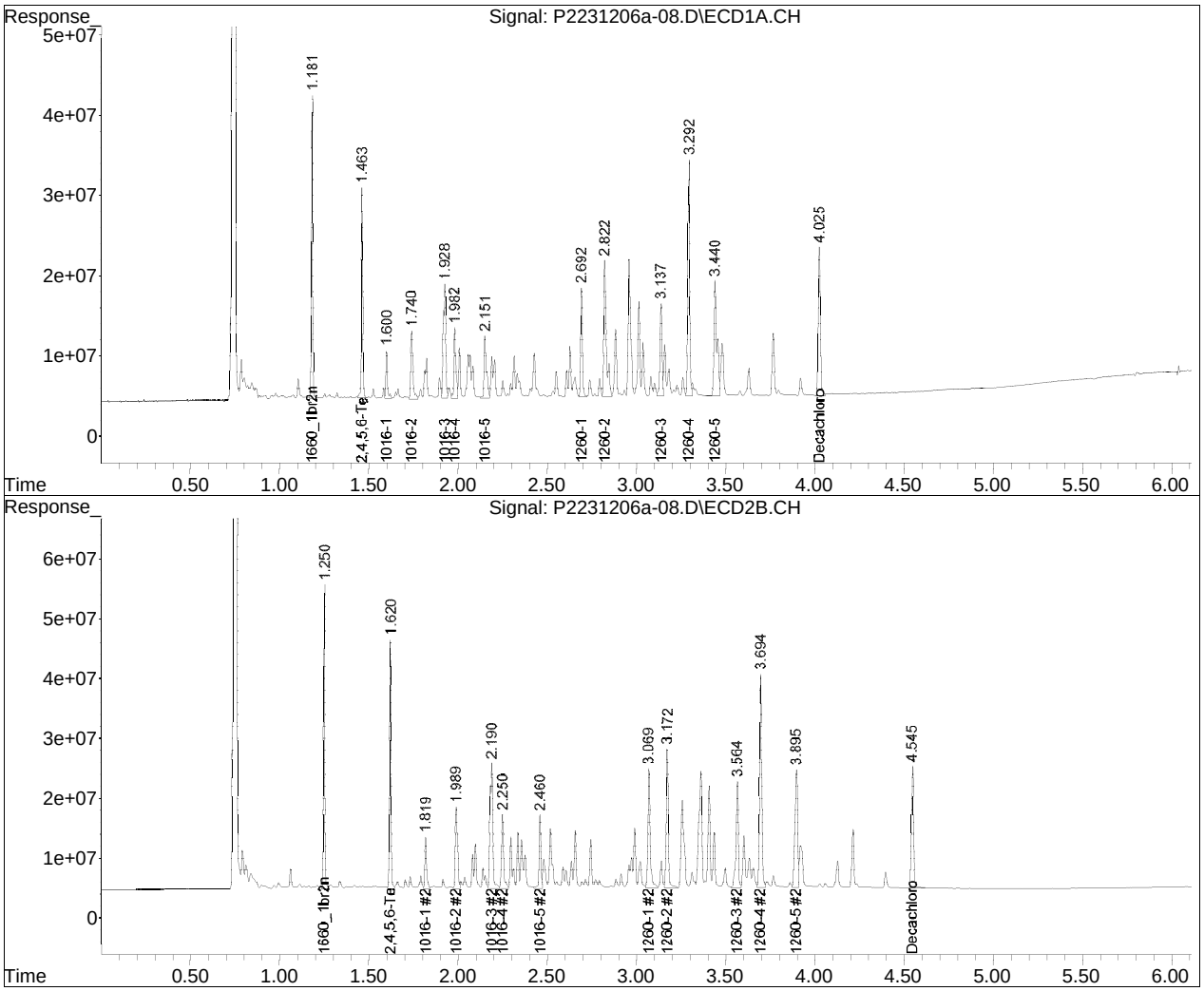
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2023\231206a\P2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:16 pm
Operator : pest2:meo
Sample : WG1859857-2,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:44:23 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

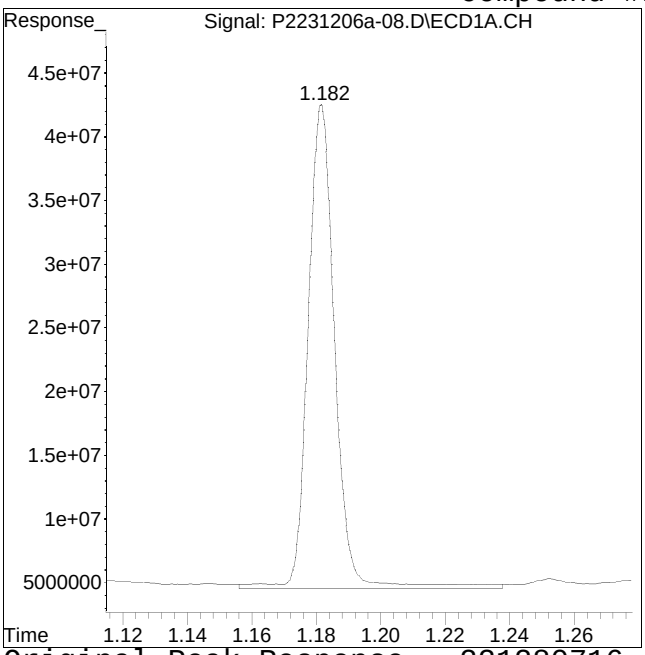
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

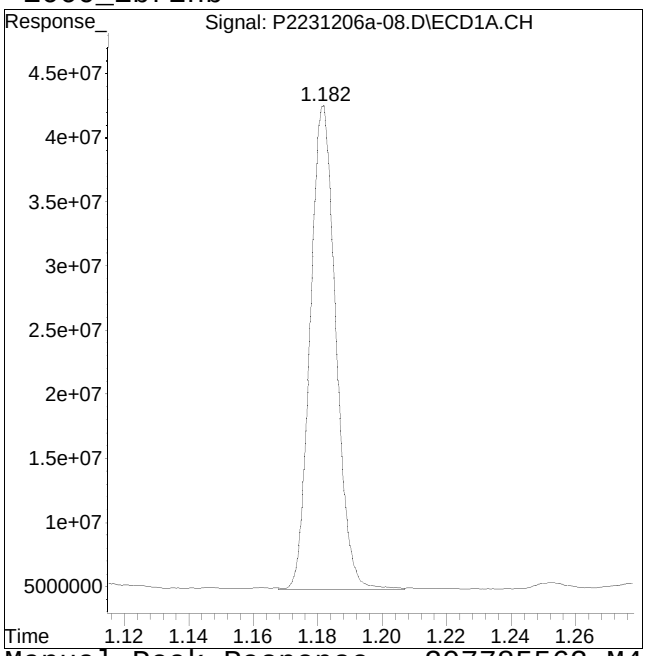


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-08.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:16 pm Instrument : Pest 2
Sample : WG1859857-2,42,, Quant Date : 12/6/2023 3:42 pm

Compound #1: 1660_1br2nb



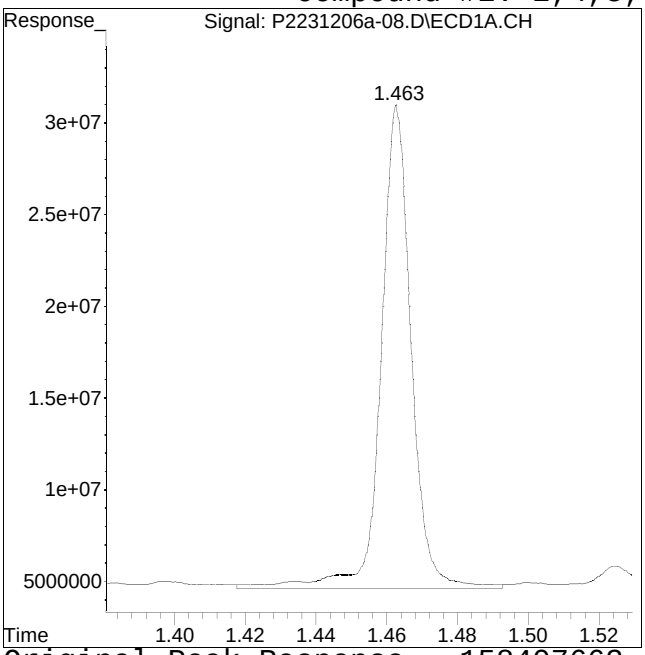


Original Peak Response = 221280716 Manual Peak Response = 207785562 M4
M4 = Poor automated baseline construction.

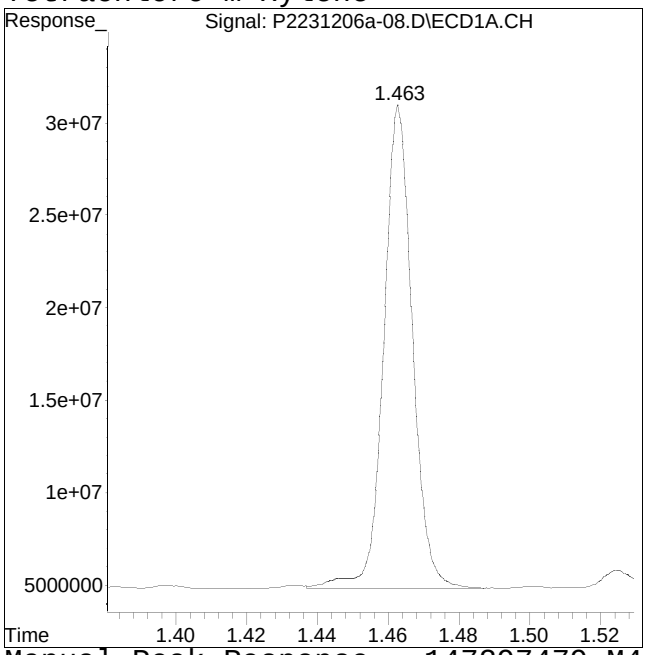
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-08.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:16 pm Instrument : Pest 2
Sample : WG1859857-2,42,, Quant Date : 12/6/2023 3:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 158407663

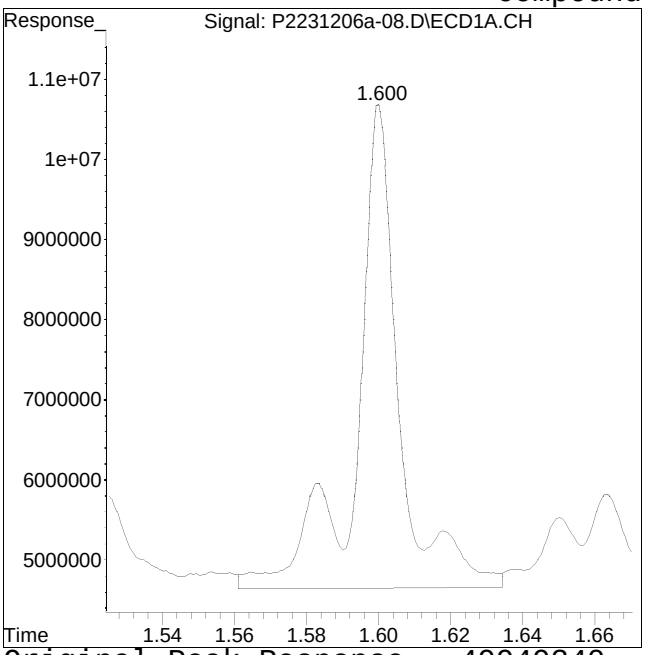


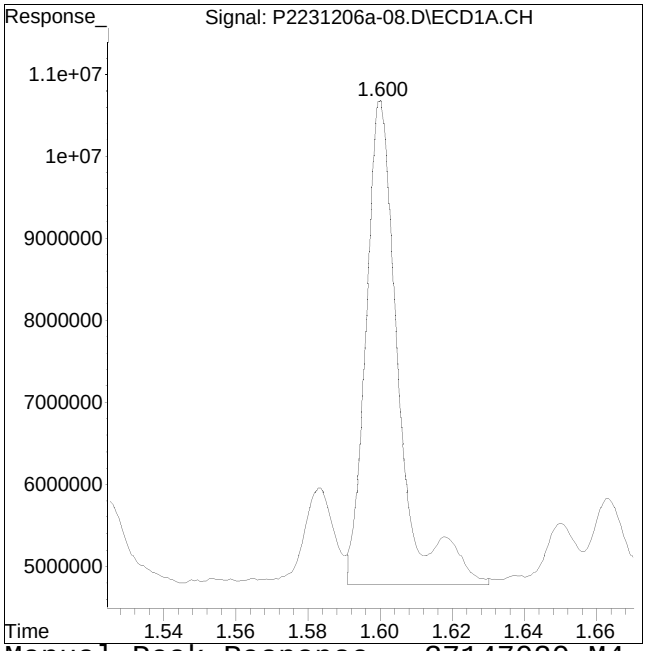
Manual Peak Response = 147297479 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-08.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:16 pm Instrument : Pest 2
Sample : WG1859857-2,42,, Quant Date : 12/6/2023 3:42 pm

Compound #4: 1016-1



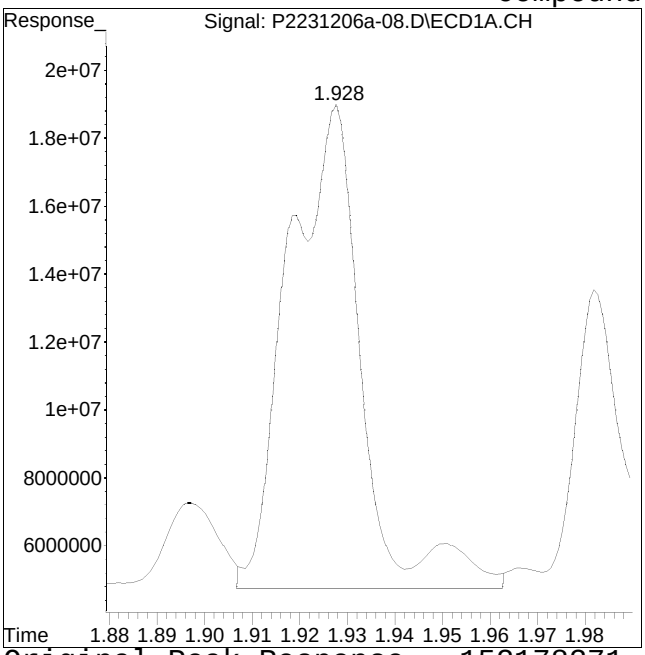


Original Peak Response = 49949340 Manual Peak Response = 37147020 M4
M4 = Poor automated baseline construction.

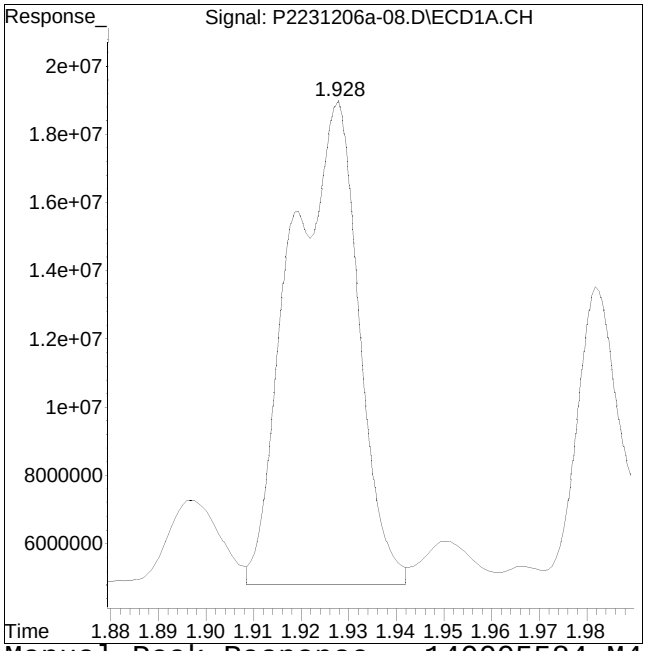
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-08.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:16 pm Instrument : Pest 2
Sample : WG1859857-2,42,, Quant Date : 12/6/2023 3:42 pm

Compound #6: 1016-3



Original Peak Response = 152178371



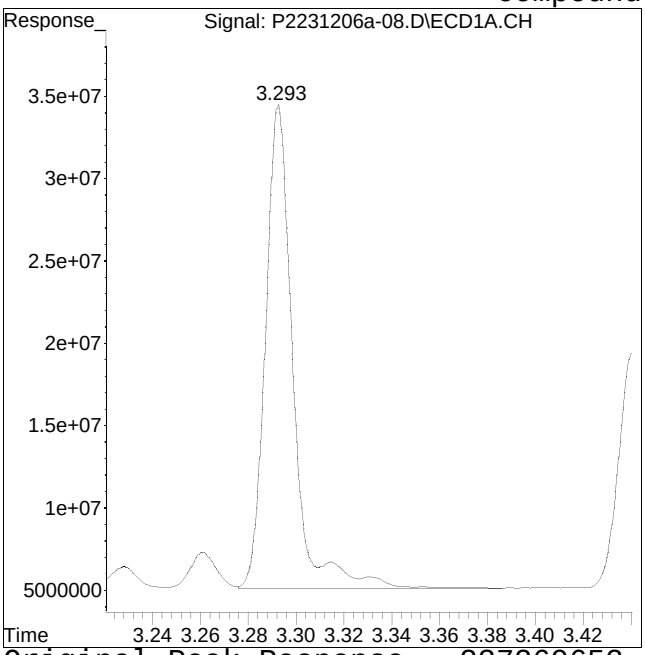
Manual Peak Response = 140005584 M4

M4 = Poor automated baseline construction.

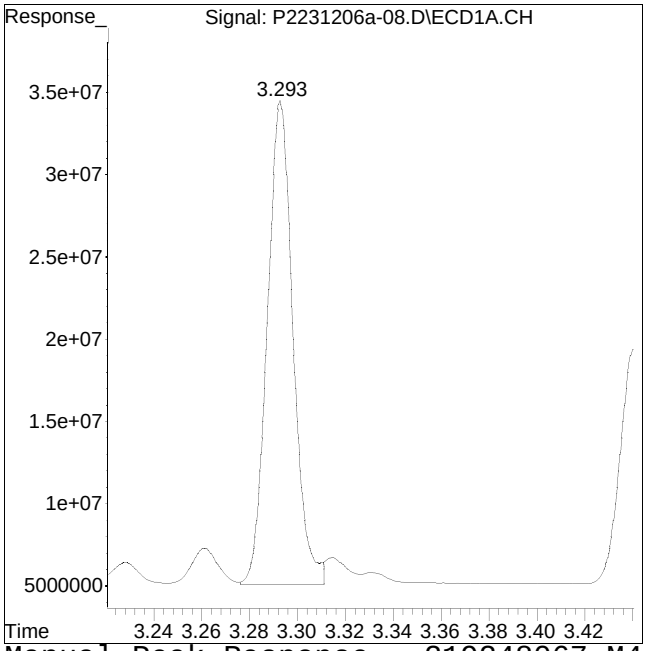
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-08.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:16 pm Instrument : Pest 2
Sample : WG1859857-2,42,, Quant Date : 12/6/2023 3:42 pm

Compound #12: 1260-4



Original Peak Response = 237269652



Manual Peak Response = 219248067 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:28 pm
Operator : pest2:meo
Sample : WG1860227-2,42,, 225
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:07:26 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.184	1.252	238.0E6	300.1E6	25.000	25.000
Standard Area 1 : #1 = 206843320				Recovery =	115.04%	
Standard Area 1 : #2 = 303600275				Recovery =	98.84%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.465	1.622	180.5E6	288.9E6	12.445M4	14.504
Spiked Amount 20.000	Range 30 - 150		Recovery =	62.22%	72.52%	
3) s Decachlorobi	4.027	4.548	178.3E6	199.6E6	13.648	14.553
Spiked Amount 20.000	Range 30 - 150		Recovery =	68.24%	72.77%	
Target Compounds						
4) l1 1016-1	1.602	1.821	41359234	67782407	161.672M4	193.347
5) l1 1016-2	1.742	1.992	81533949	143.8E6	160.641M4	184.858
6) l1 1016-3	1.930	2.193	165.5E6	268.3E6	147.051M4	175.004
7) l1 1016-4	1.984	2.252	78020437	115.5E6	160.990M4	180.091
8) l1 1016-5	2.154	2.463	75122297	96864323	151.654M4	191.826
Sum 1016-1			441.5E6	692.3E6	782.009	925.127
Average 1016-1					156.402	185.025
9) l2 1260-1	2.695	3.072	107.4E6	190.6E6	149.003	203.294
10) l2 1260-2	2.824	3.175	160.1E6	206.6E6	145.065M4	189.499
11) l2 1260-3	3.140	3.567	104.4E6	172.3E6	141.995	187.902
12) l2 1260-4	3.295	3.697	243.8E6	329.4E6	157.839M4	182.633
13) l2 1260-5	3.443	3.898	191.5E6	228.6E6	168.160	183.912
Sum 1260-1			807.3E6	1127.6E6	762.062	947.240
Average 1260-1					152.412	189.448
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:28 pm
Operator : pest2:meo
Sample : WG1860227-2,42,, 225
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:07:26 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

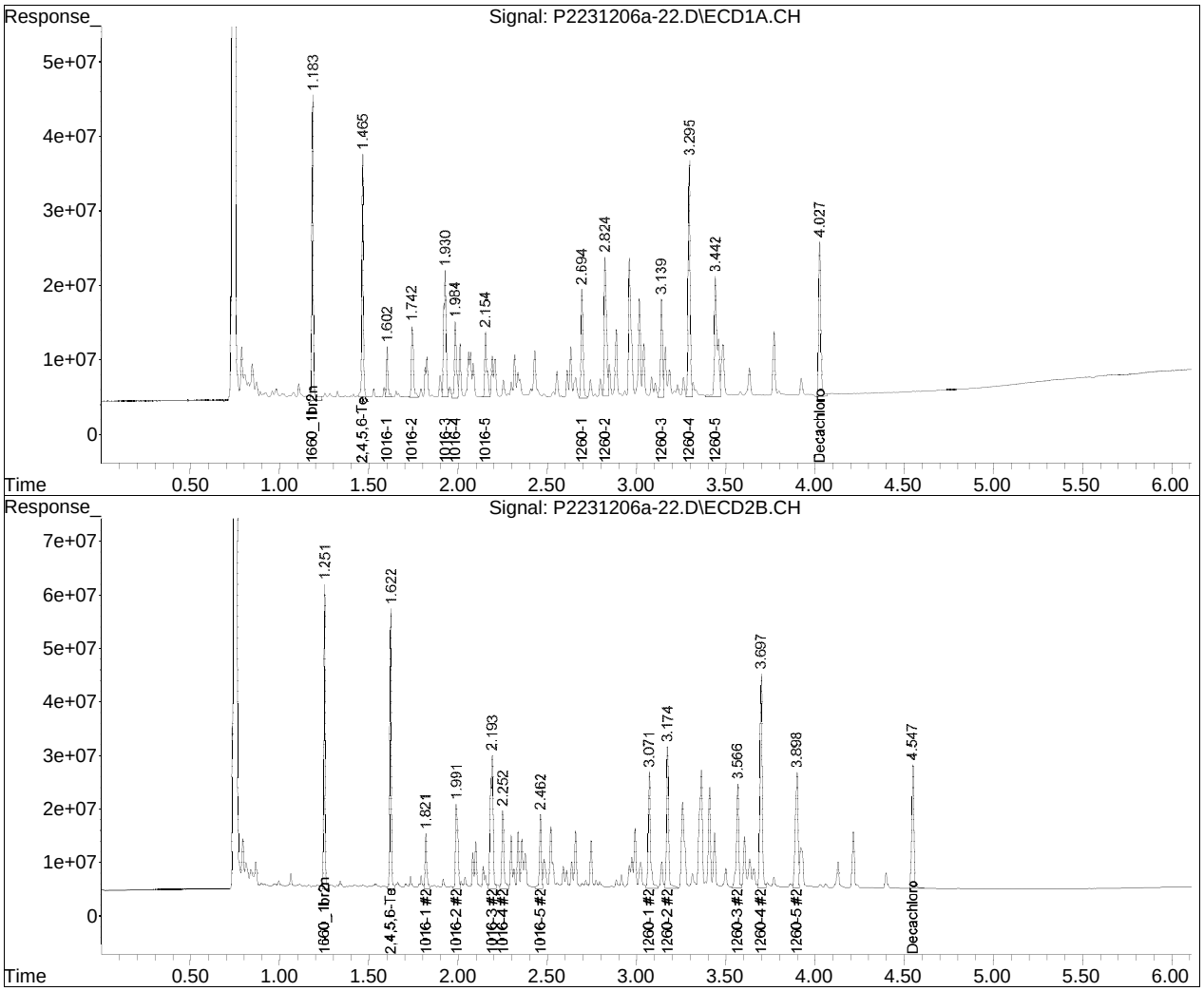
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2023\231206a\P2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-22.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:28 pm
Operator : pest2:meo
Sample : WG1860227-2,42,, 225
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:07:26 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

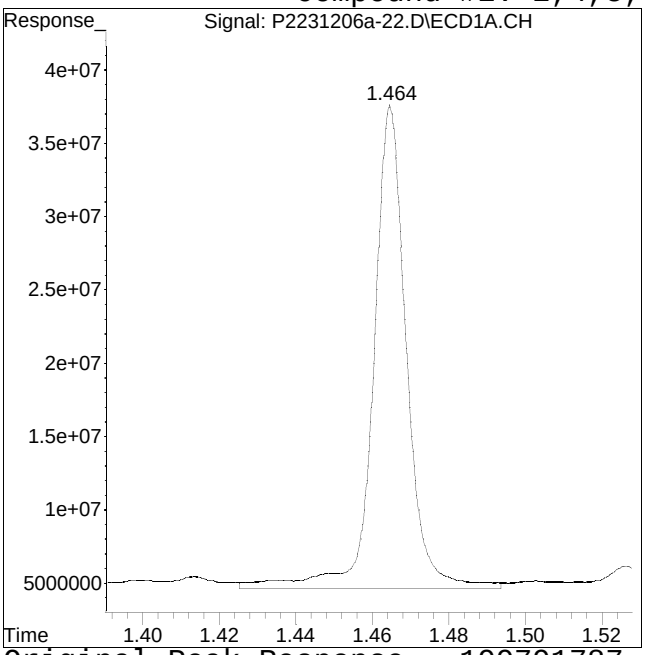
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

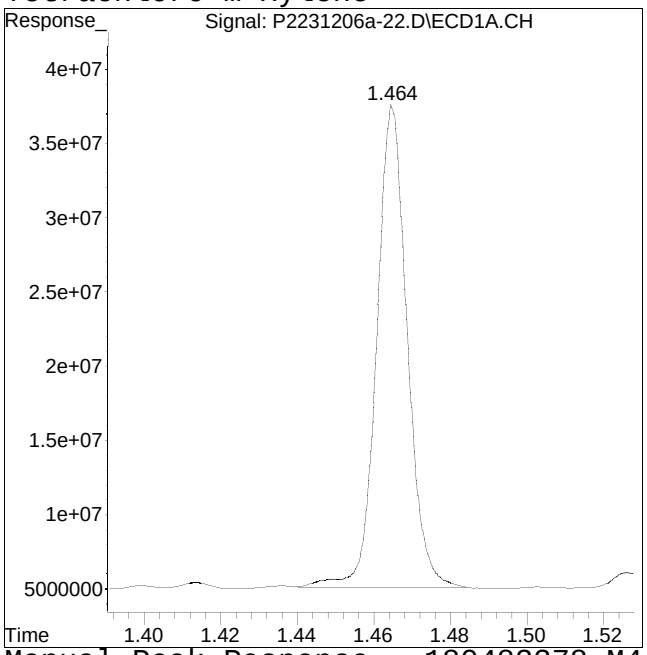


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-22.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:28 pm Instrument : Pest 2
Sample : WG1860227-2,42,, 225 Quant Date : 12/6/2023 3:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



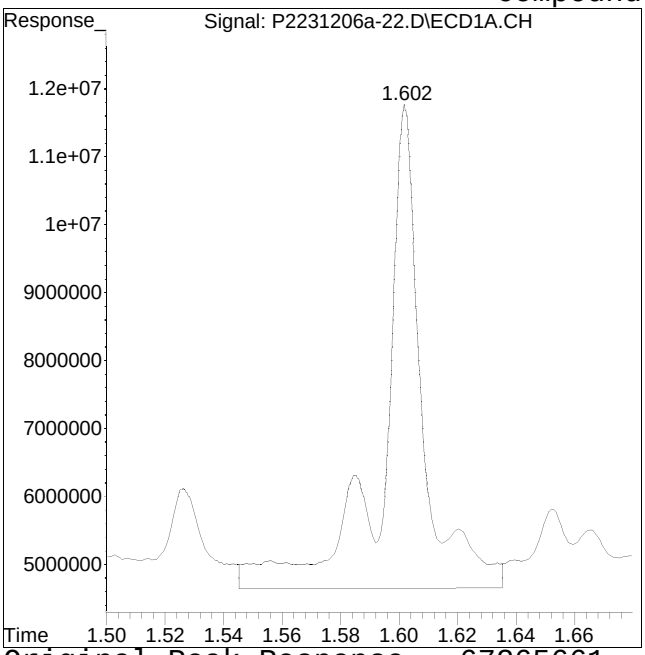


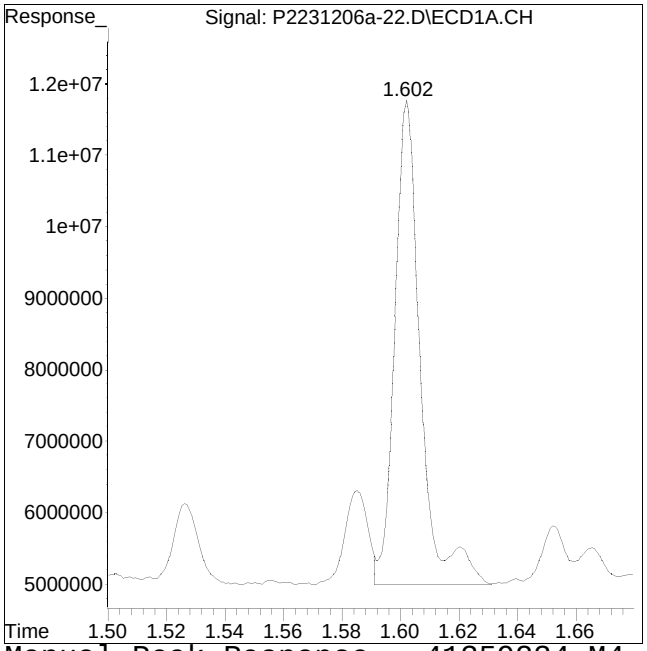
Original Peak Response = 199791787 Manual Peak Response = 180483378 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-22.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:28 pm Instrument : Pest 2
Sample : WG1860227-2,42,, 225 Quant Date : 12/6/2023 3:42 pm

Compound #4: 1016-1



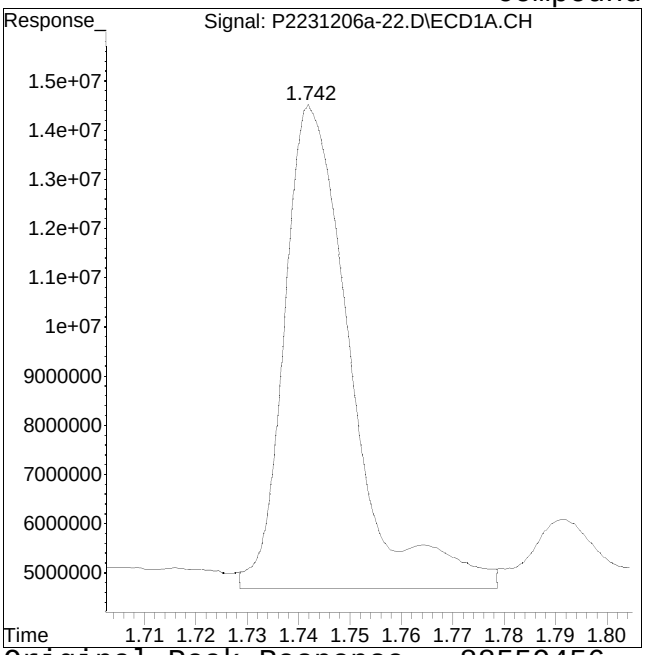


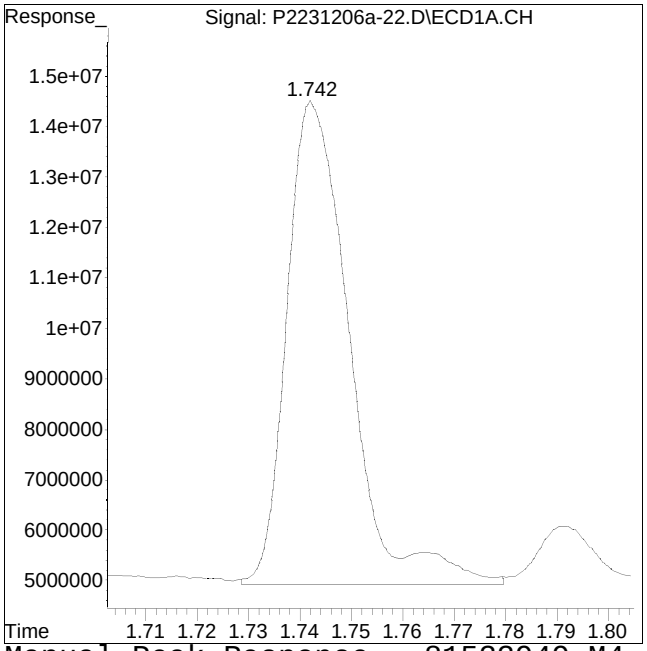
Original Peak Response = 67265661 Manual Peak Response = 41359234 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-22.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:28 pm Instrument : Pest 2
Sample : WG1860227-2,42,, 225 Quant Date : 12/6/2023 3:42 pm

Compound #5: 1016-2



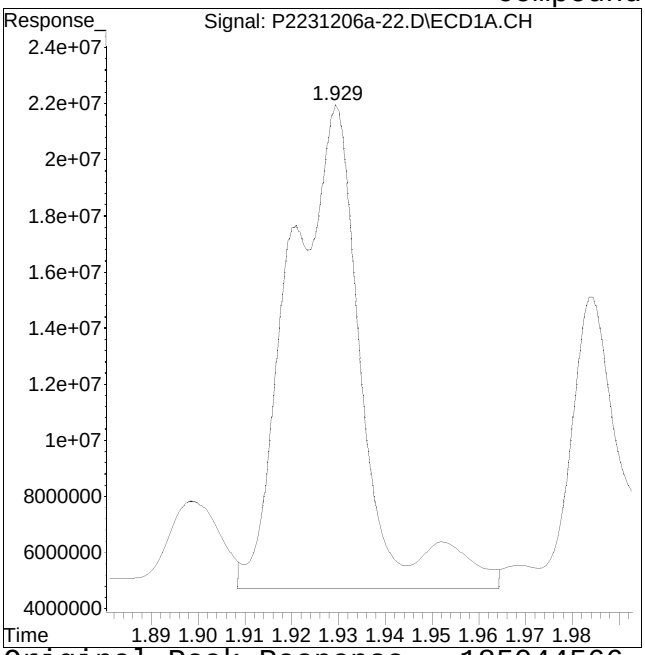


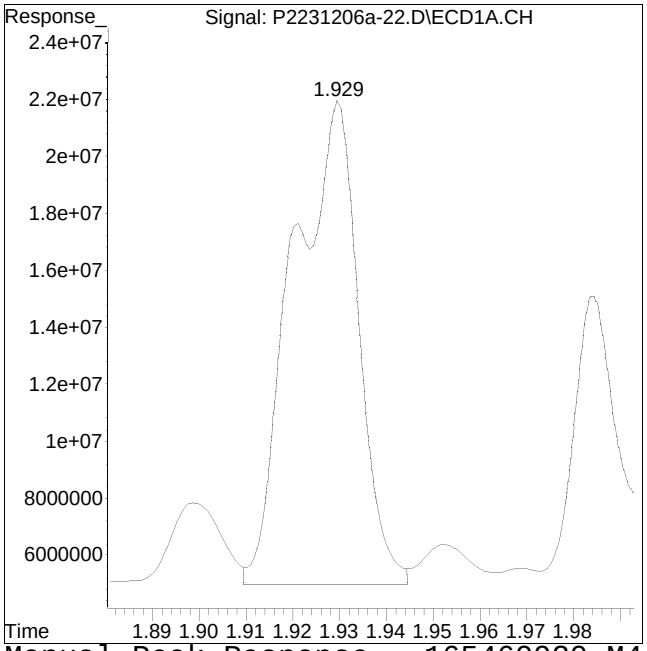
Original Peak Response = 88559456 Manual Peak Response = 81533949 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-22.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:28 pm Instrument : Pest 2
Sample : WG1860227-2,42,, 225 Quant Date : 12/6/2023 3:42 pm

Compound #6: 1016-3



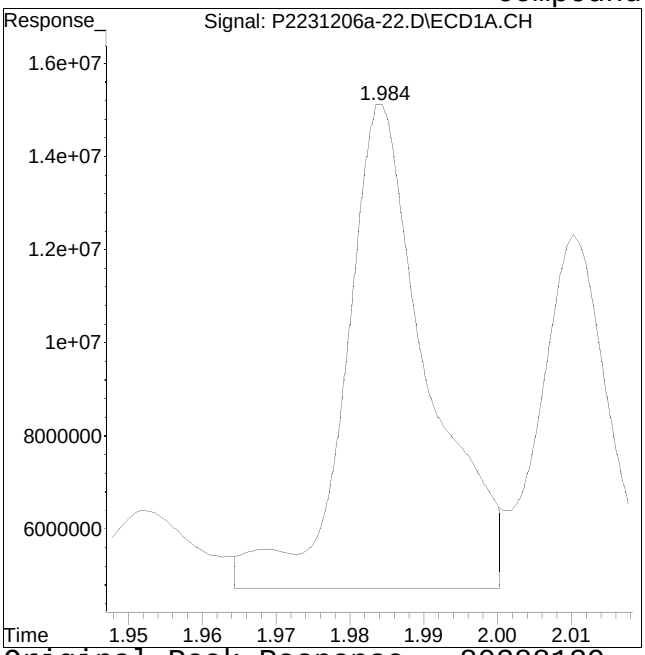


Original Peak Response = 185044566 Manual Peak Response = 165460920 M4
M4 = Poor automated baseline construction.

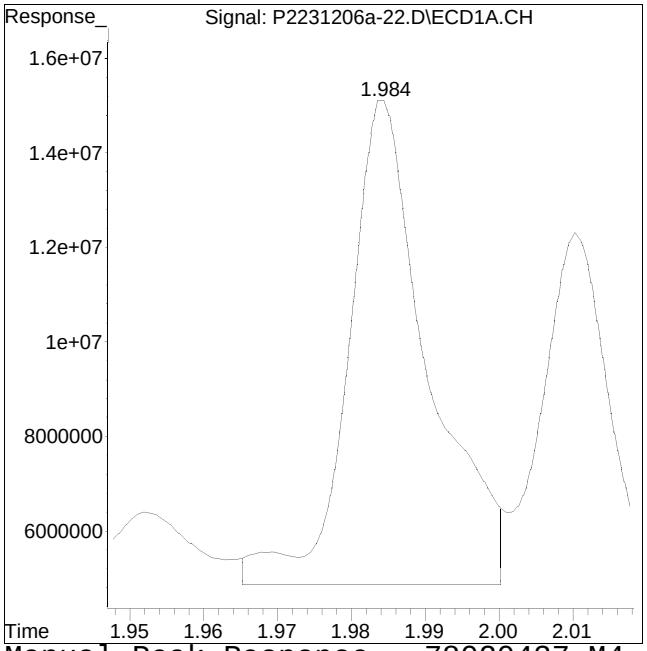
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-22.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:28 pm Instrument : Pest 2
Sample : WG1860227-2,42,, 225 Quant Date : 12/6/2023 3:42 pm

Compound #7: 1016-4



Original Peak Response = 80388139



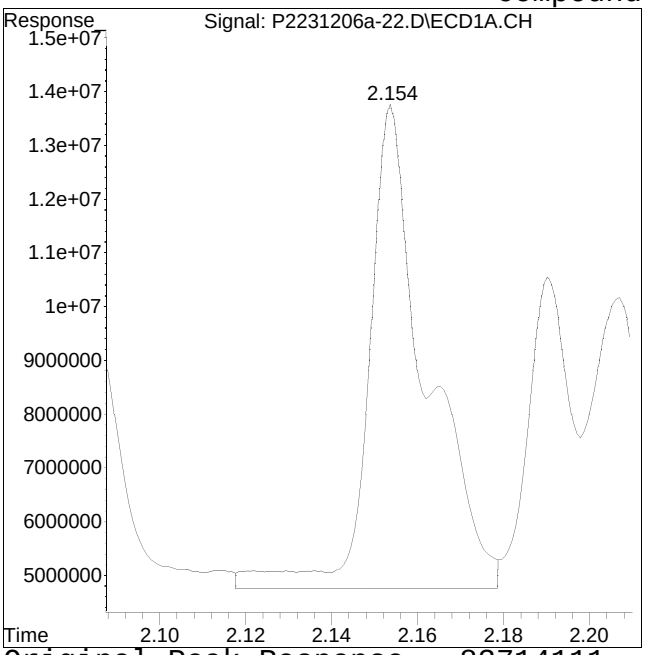
Manual Peak Response = 78020437 M4

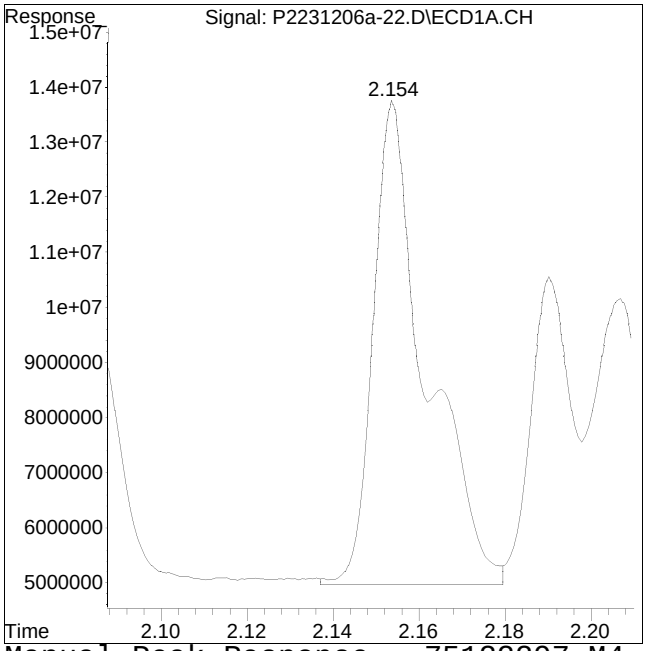
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-22.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:28 pm Instrument : Pest 2
Sample : WG1860227-2,42,, 225 Quant Date : 12/6/2023 3:42 pm

Compound #8: 1016-5



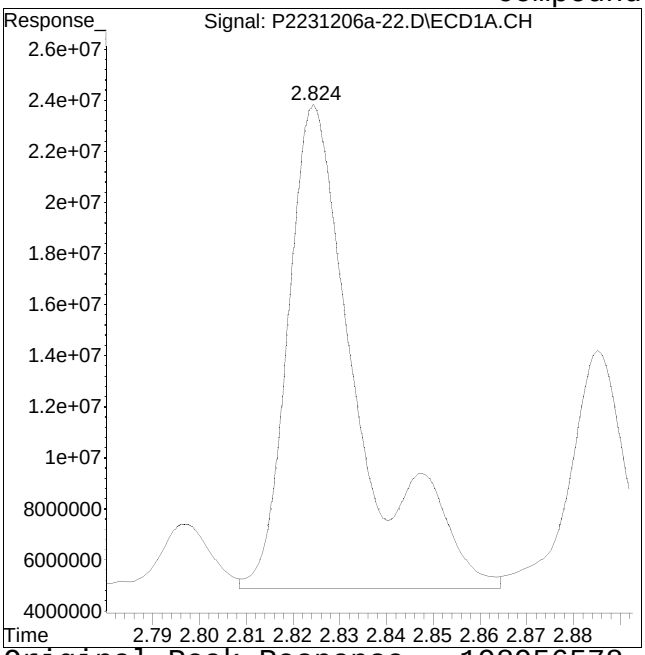


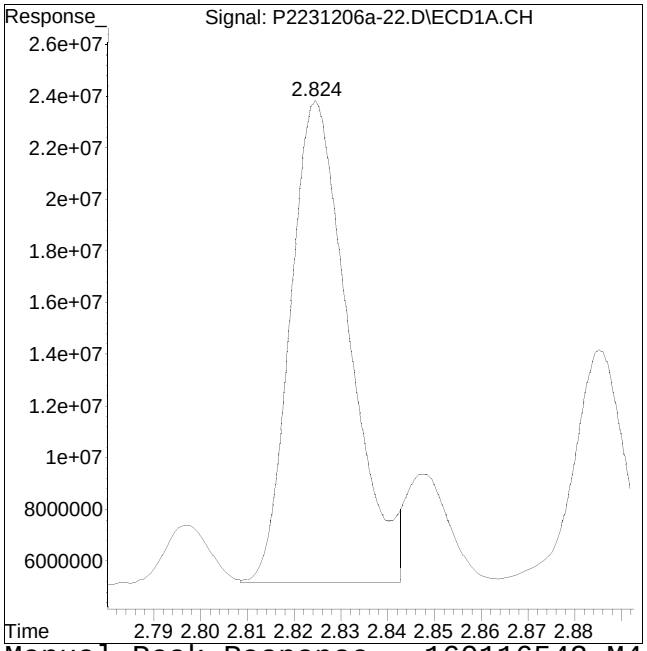
Original Peak Response = 83714111 Manual Peak Response = 75122297 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-22.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:28 pm Instrument : Pest 2
Sample : WG1860227-2,42,, 225 Quant Date : 12/6/2023 3:42 pm

Compound #10: 1260-2



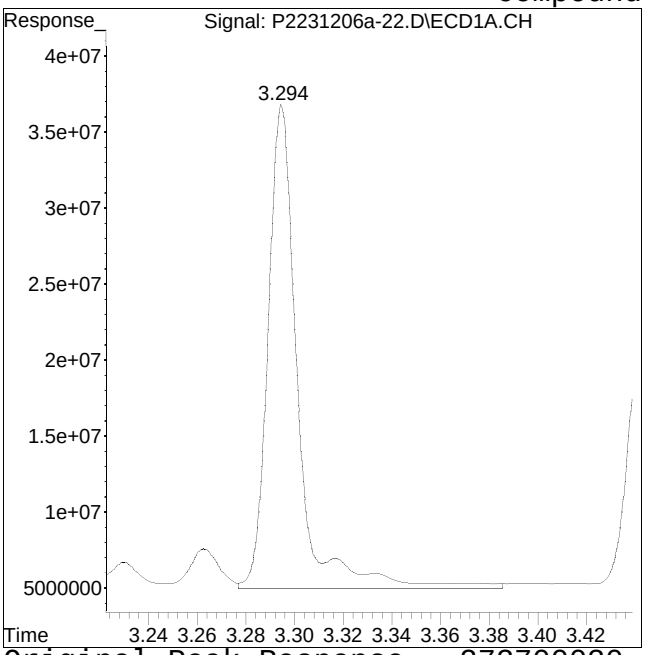


Original Peak Response = 198956578 Manual Peak Response = 160116542 M4
M4 = Poor automated baseline construction.

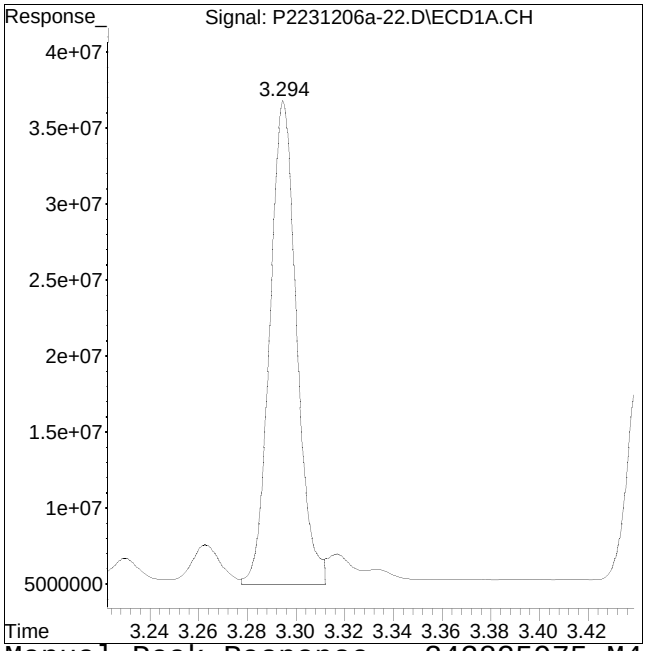
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-22.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:28 pm Instrument : Pest 2
Sample : WG1860227-2,42,, 225 Quant Date : 12/6/2023 3:42 pm

Compound #12: 1260-4



Original Peak Response = 273700030



Manual Peak Response = 243825975 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:26 pm
Operator : pest2:meo
Sample : WG1859857-3,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:45:12 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.182	1.250	209.7E6	277.8E6	25.000M4	25.000
Standard Area 1 : #1 = 206843320				Recovery =	101.37%	
Standard Area 1 : #2 = 303600275				Recovery =	91.50%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.463	1.621	151.1E6	240.3E6	11.823M4	13.033
Spiked Amount	20.000	Range 30 - 150		Recovery =	59.12%	65.16%
3) s Decachlorobi	4.026	4.547	162.0E6	186.2E6	14.076	14.661
Spiked Amount	20.000	Range 30 - 150		Recovery =	70.38%	73.30%
Target Compounds						
4) l1 1016-1	1.600	1.820	39833380	66246232	176.714M4	204.117
5) l1 1016-2	1.742	1.991	84057052	140.2E6	187.955	194.717
6) l1 1016-3	1.928	2.190	153.3E6	251.7E6	154.643M4	177.341
7) l1 1016-4	1.982	2.251	73251085	107.7E6	171.540M4	181.408
8) l1 1016-5	2.152	2.461	78107337	90964623	178.953	194.587
Sum 1016-1			428.6E6	656.9E6	869.804	952.169
Average 1016-1					173.961	190.434
9) l2 1260-1	2.693	3.070	108.8E6	188.7E6	171.304	217.367
10) l2 1260-2	2.823	3.172	162.9E6	196.6E6	167.514M4	194.764
11) l2 1260-3	3.138	3.564	103.2E6	168.4E6	159.327	198.295
12) l2 1260-4	3.292	3.695	241.1E6	317.8E6	177.166M4	190.280
13) l2 1260-5	3.441	3.895	180.1E6	223.0E6	179.415	193.790
Sum 1260-1			796.1E6	1094.4E6	854.726	994.496
Average 1260-1					170.945	198.899
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:26 pm
Operator : pest2:meo
Sample : WG1859857-3,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:45:12 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

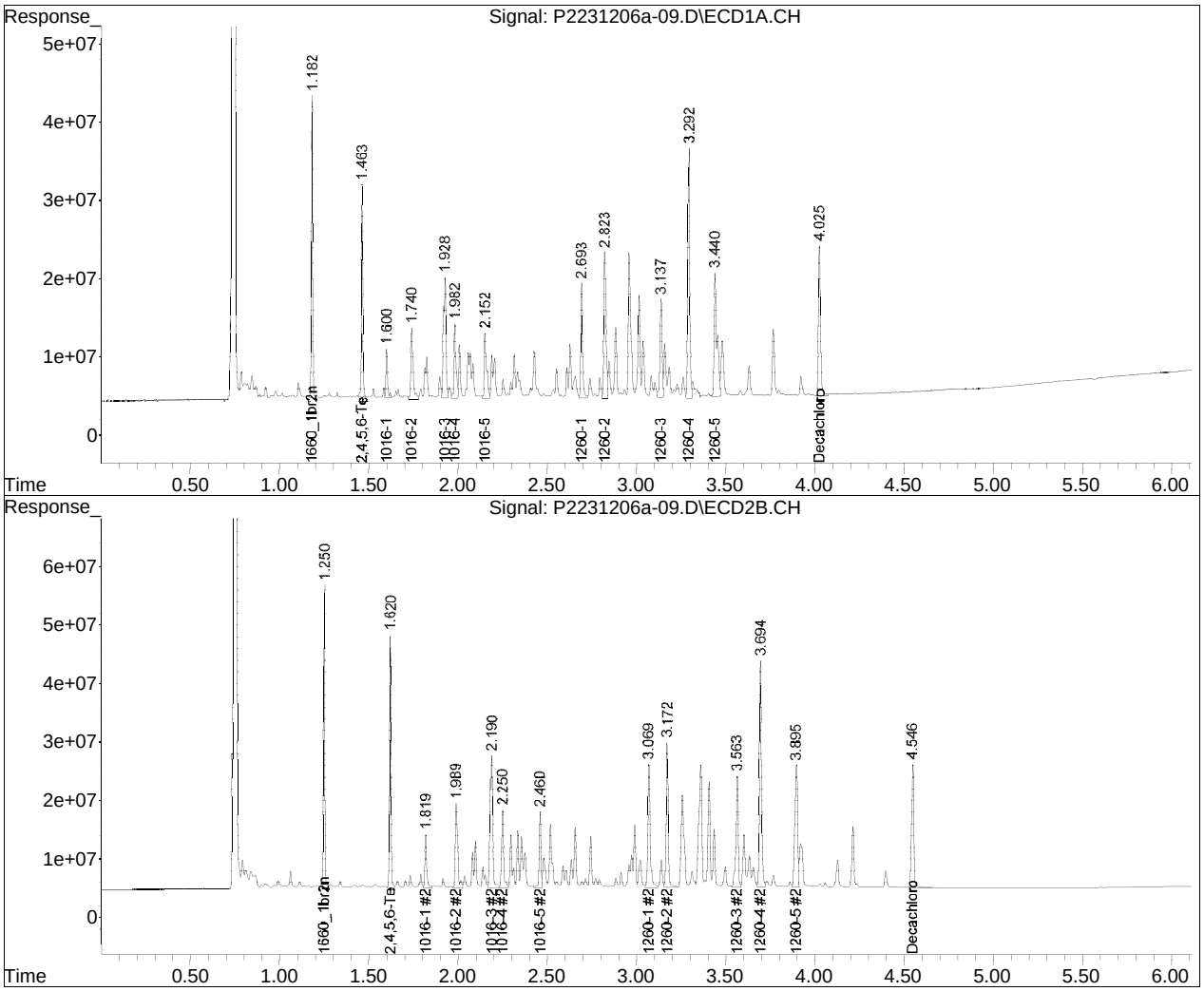
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2023\231206a\P2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 12:26 pm
Operator : pest2:meo
Sample : WG1859857-3,42,,
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:45:12 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

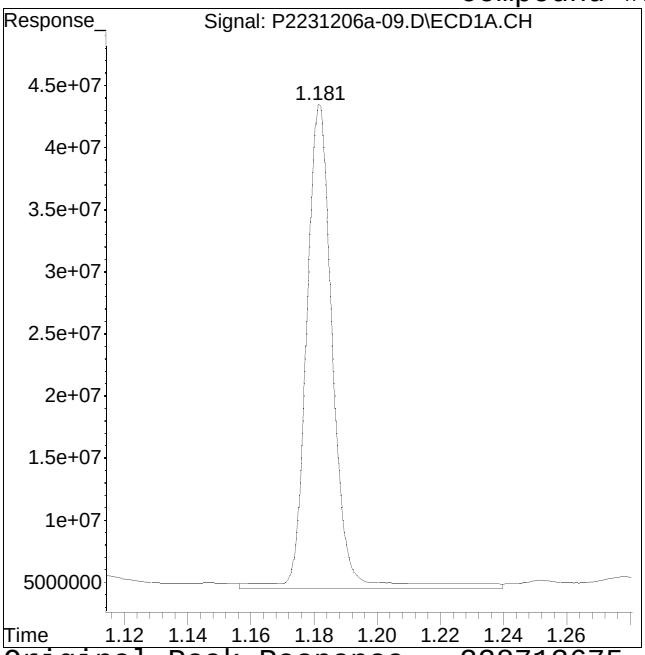
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

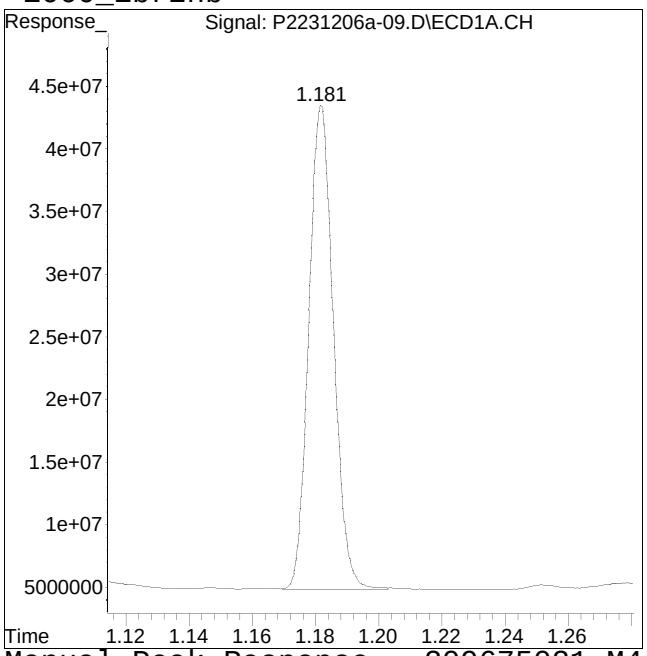


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-09.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:26 pm Instrument : Pest 2
Sample : WG1859857-3,42,, Quant Date : 12/6/2023 3:42 pm

Compound #1: 1660_1br2nb



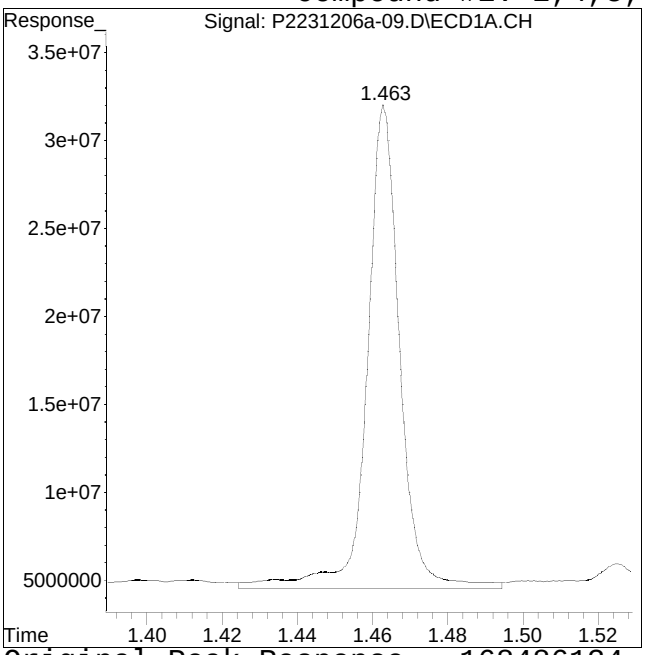


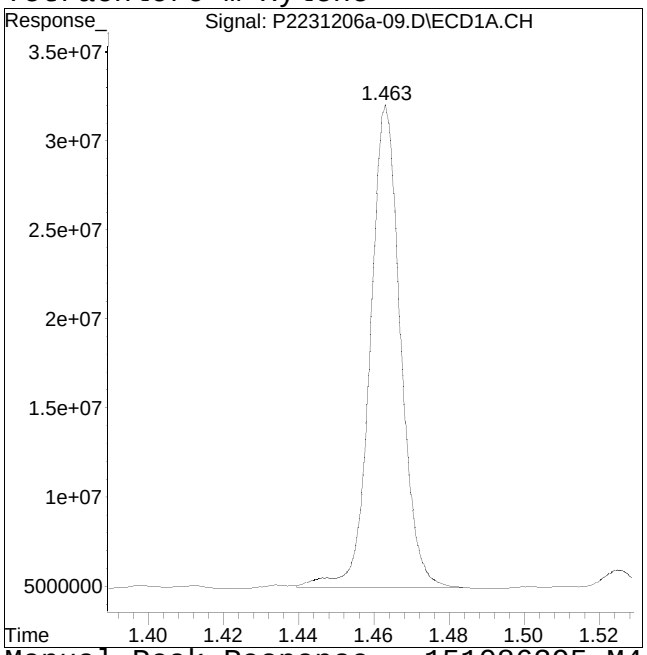
Original Peak Response = 228713675 Manual Peak Response = 209675021 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-09.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:26 pm Instrument : Pest 2
Sample : WG1859857-3,42,, Quant Date : 12/6/2023 3:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



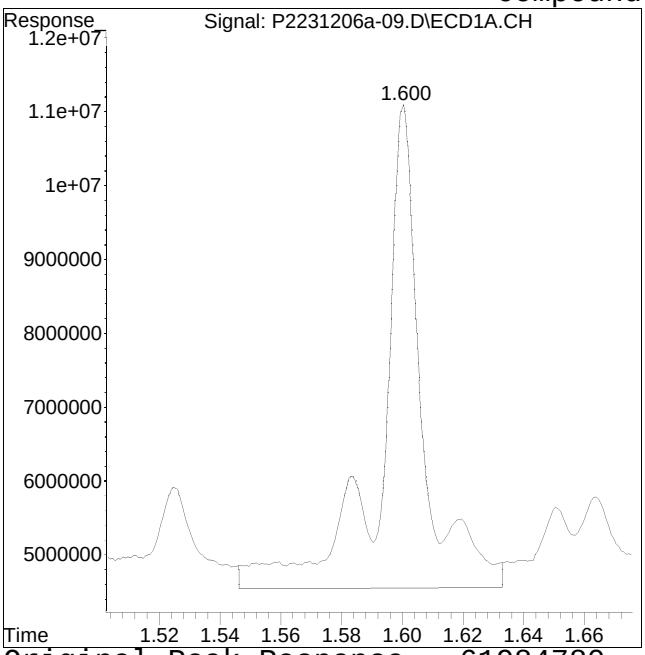


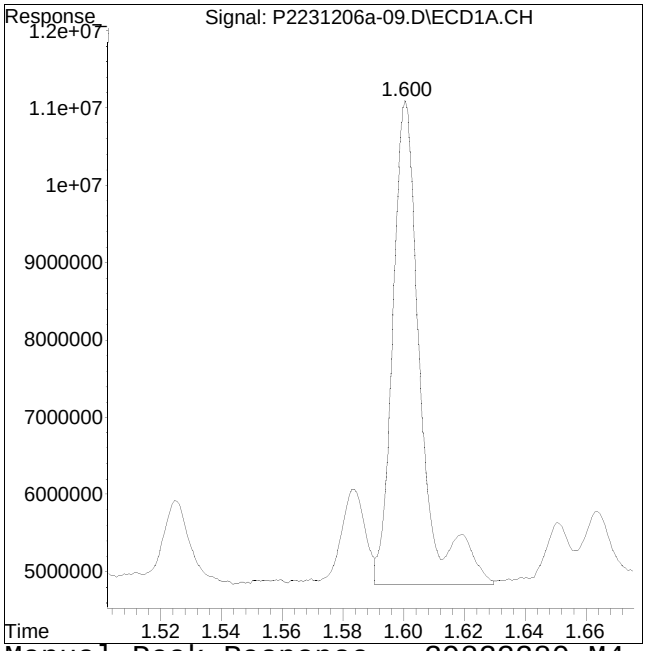
Original Peak Response = 168486134 Manual Peak Response = 151086395 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-09.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:26 pm Instrument : Pest 2
Sample : WG1859857-3,42,, Quant Date : 12/6/2023 3:42 pm

Compound #4: 1016-1



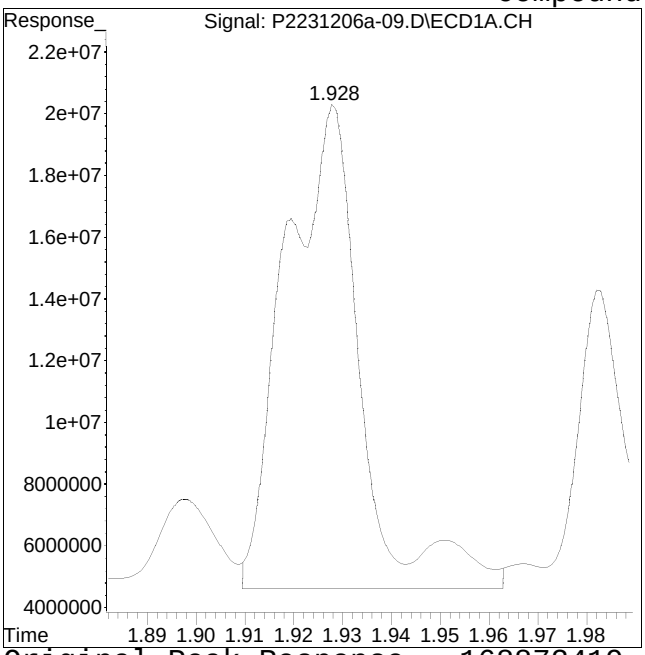


Original Peak Response = 61984780 Manual Peak Response = 39833380 M4
M4 = Poor automated baseline construction.

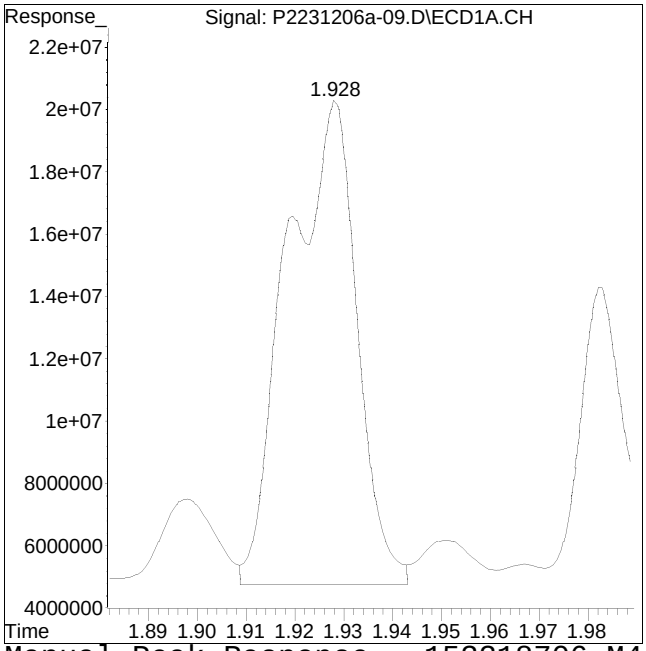
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-09.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:26 pm Instrument : Pest 2
Sample : WG1859857-3,42,, Quant Date : 12/6/2023 3:42 pm

Compound #6: 1016-3



Original Peak Response = 168872419



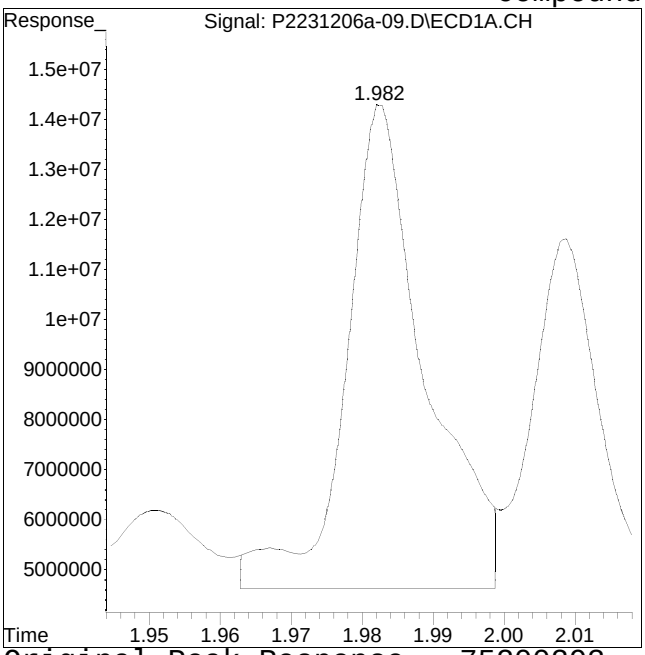
Manual Peak Response = 153318706 M4

M4 = Poor automated baseline construction.

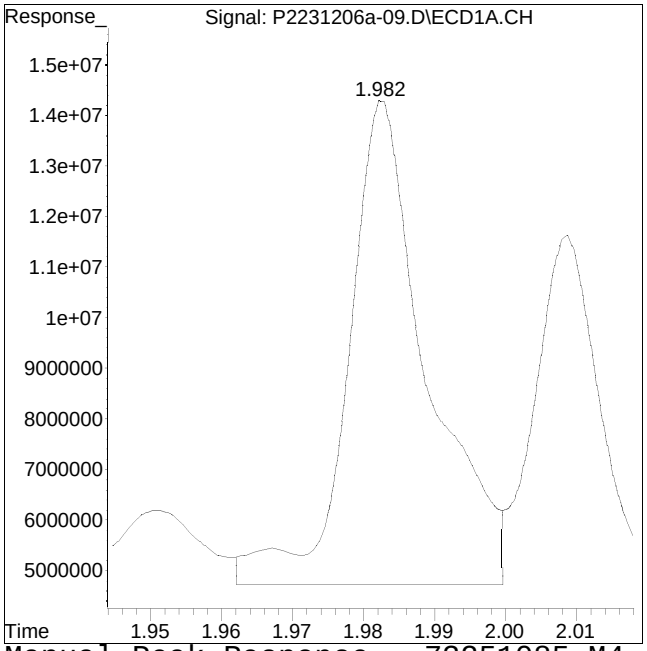
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-09.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:26 pm Instrument : Pest 2
Sample : WG1859857-3,42,, Quant Date : 12/6/2023 3:42 pm

Compound #7: 1016-4



Original Peak Response = 75200293



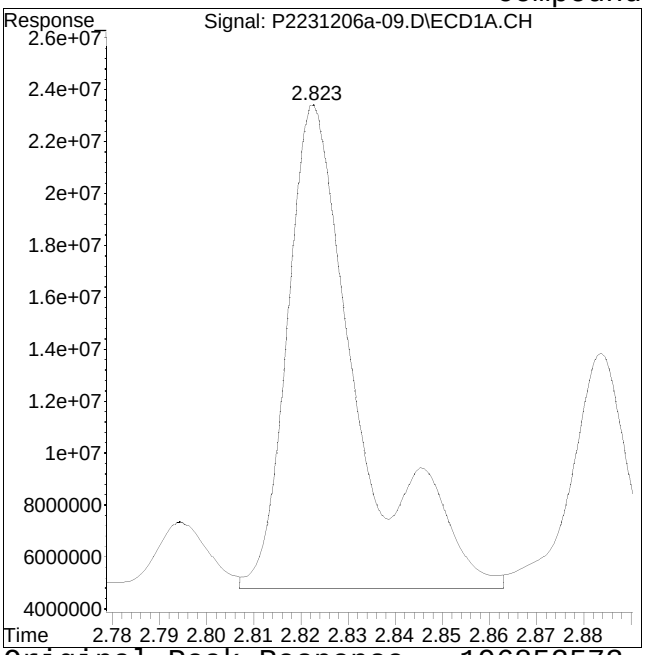
Manual Peak Response = 73251085 M4

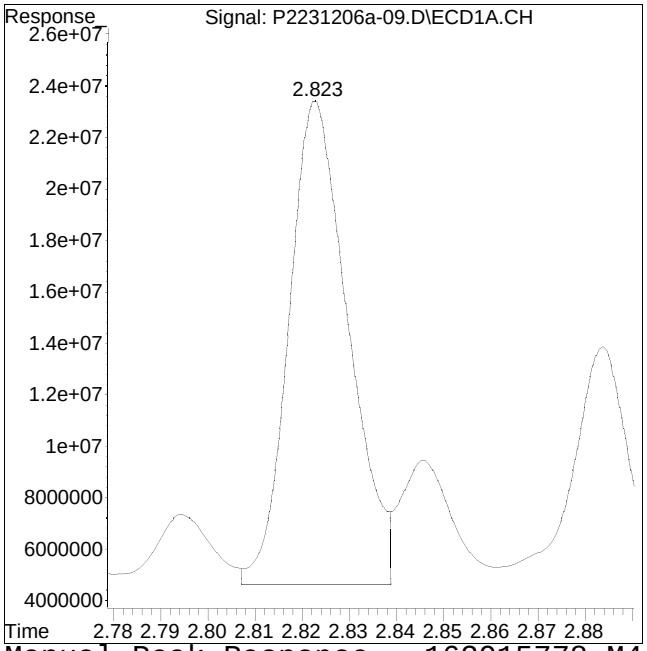
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-09.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:26 pm Instrument : Pest 2
Sample : WG1859857-3,42,, Quant Date : 12/6/2023 3:42 pm

Compound #10: 1260-2



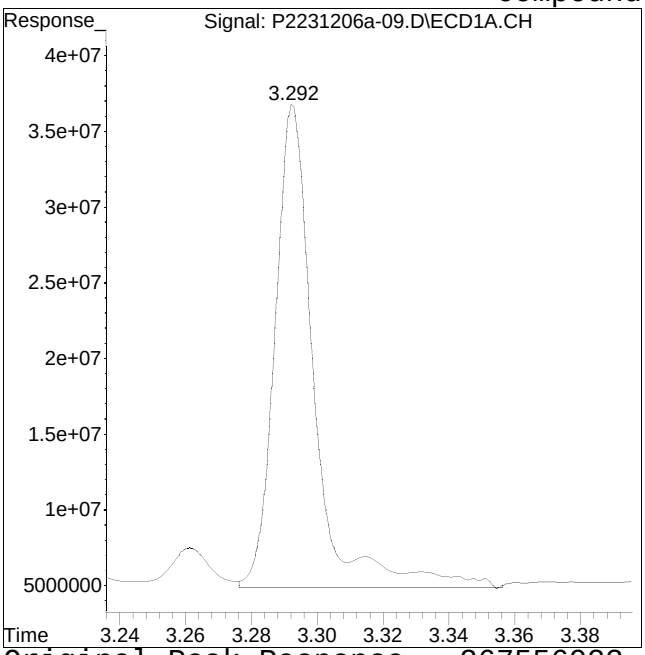


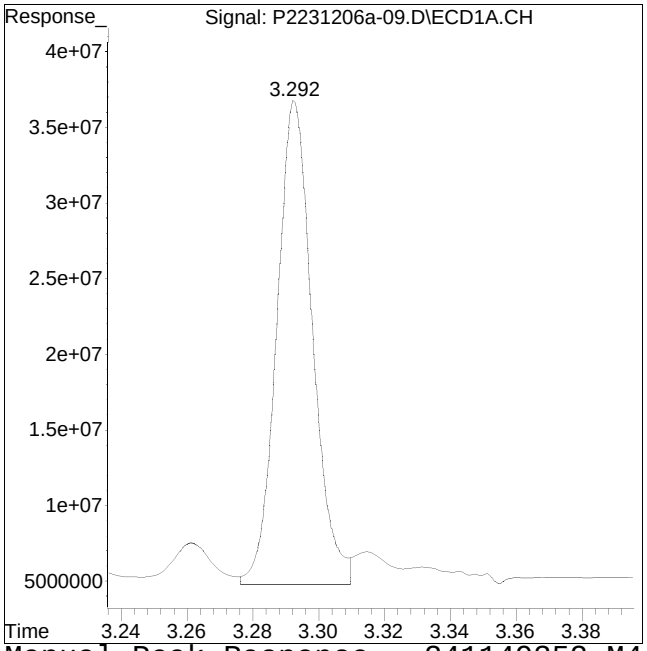
Original Peak Response = 196852573 Manual Peak Response = 162915778 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-09.D Operator : pest2:meo
Date Inj'd : 12/6/2023 12:26 pm Instrument : Pest 2
Sample : WG1859857-3,42,, Quant Date : 12/6/2023 3:42 pm

Compound #12: 1260-4





Original Peak Response = 267556923 Manual Peak Response = 241149352 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:37 pm
Operator : pest2:meo
Sample : WG1860227-3,42,, 225
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:07:58 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.184	1.252	225.3E6	292.7E6	25.000	25.000
Standard Area 1 : #1 = 206843320				Recovery =	108.94%	
Standard Area 1 : #2 = 303600275				Recovery =	96.41%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.465	1.623	187.3E6	271.5E6	13.640	13.970
Spiked Amount 20.000	Range 30 - 150		Recovery =	68.20%	69.85%	
3) s Decachlorobi	4.027	4.549	170.8E6	195.6E6	13.808	14.617
Spiked Amount 20.000	Range 30 - 150		Recovery =	69.04%	73.08%	
Target Compounds						
4) l1 1016-1	1.602	1.821	41579435	60236519	171.642M4	176.138
5) l1 1016-2	1.743	1.992	83881442	132.6E6	174.528	174.725
6) l1 1016-3	1.930	2.193	162.1E6	251.5E6	152.128M4	168.124
7) l1 1016-4	1.985	2.253	76031019	105.5E6	165.677	168.538
8) l1 1016-5	2.154	2.463	76486413	89337003	163.062	181.363
Sum 1016-1			440.1E6	639.1E6	827.036	868.888
Average 1016-1					165.407	173.778
9) l2 1260-1	2.695	3.072	99896022	181.3E6	146.392	198.183
10) l2 1260-2	2.825	3.175	155.1E6	195.7E6	148.403M4	183.987
11) l2 1260-3	3.140	3.567	98508215	165.8E6	141.507	185.345
12) l2 1260-4	3.295	3.698	233.7E6	317.5E6	159.789M4	180.452
13) l2 1260-5	3.443	3.898	173.3E6	220.4E6	160.628	181.775
Sum 1260-1			760.5E6	1080.7E6	756.720	929.741
Average 1260-1					151.344	185.948
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:37 pm
Operator : pest2:meo
Sample : WG1860227-3,42,, 225
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:07:58 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

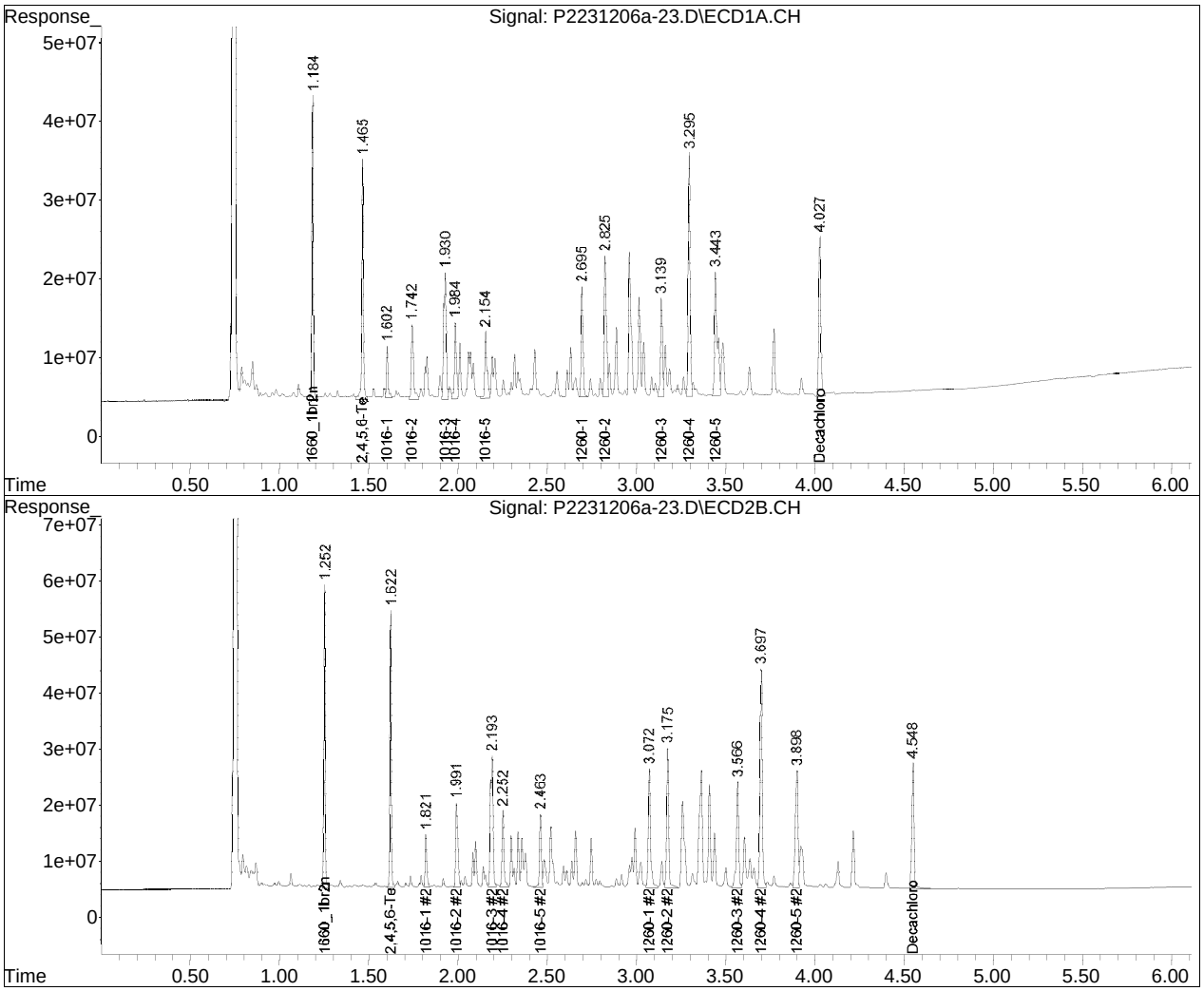
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2023\231206a\P2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-23.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 2:37 pm
Operator : pest2:meo
Sample : WG1860227-3,42,, 225
Misc : WG1860406,WG1860227,ical20537
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 16:07:58 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

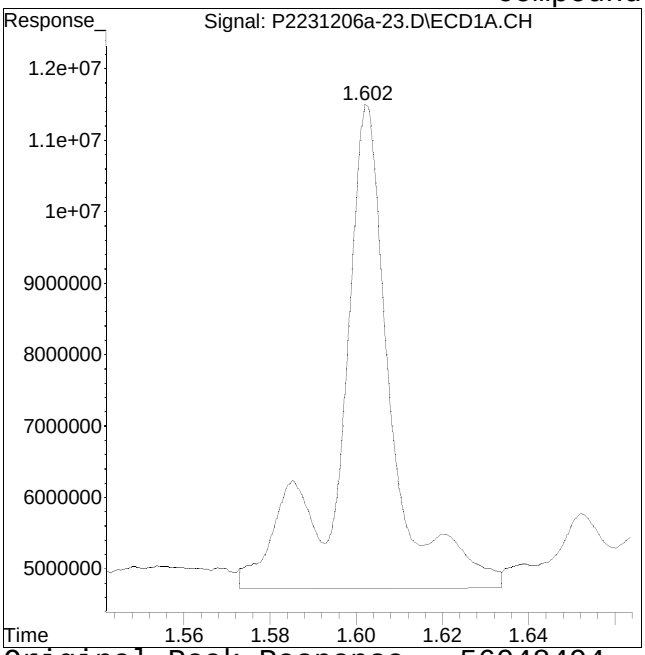
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

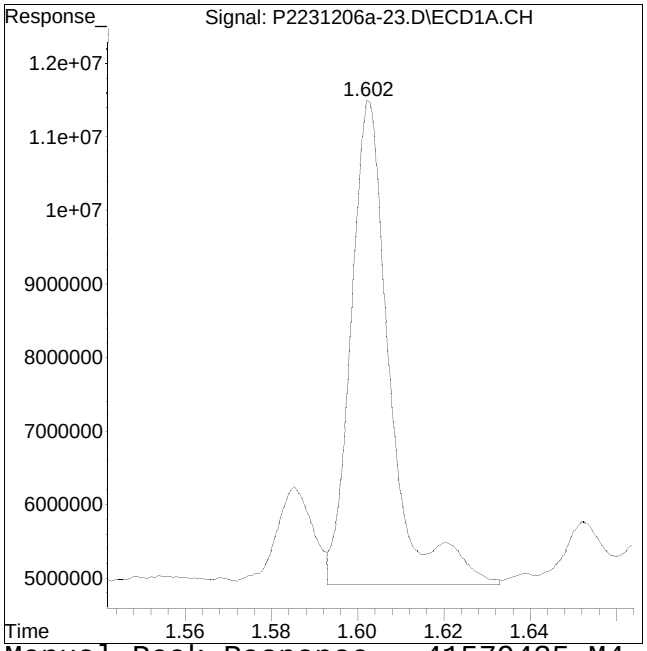


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-23.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:37 pm Instrument : Pest 2
Sample : WG1860227-3,42,, 225 Quant Date : 12/6/2023 3:42 pm

Compound #4: 1016-1



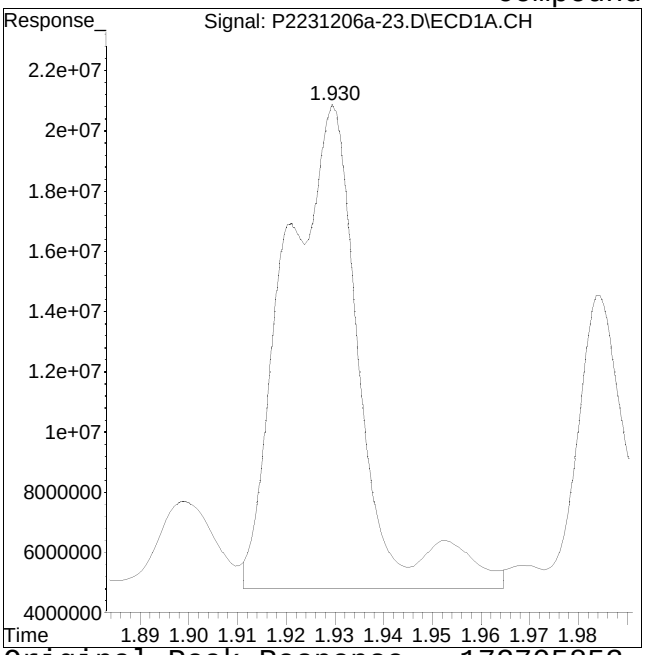


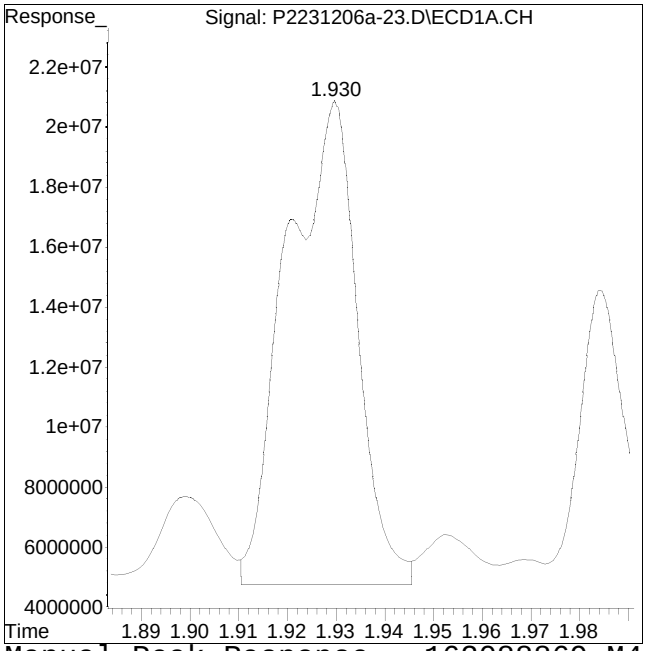
Original Peak Response = 56048494 Manual Peak Response = 41579435 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-23.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:37 pm Instrument : Pest 2
Sample : WG1860227-3,42,, 225 Quant Date : 12/6/2023 3:42 pm

Compound #6: 1016-3



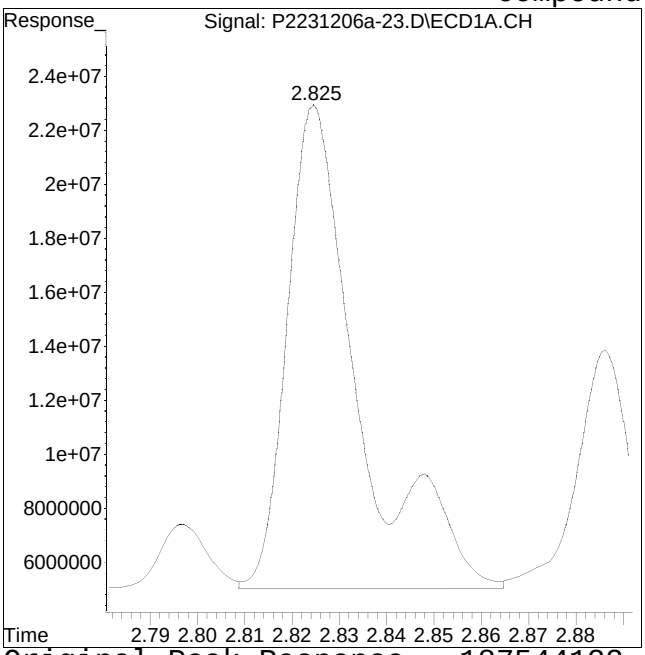


Original Peak Response = 172705853 Manual Peak Response = 162088869 M4
M4 = Poor automated baseline construction.

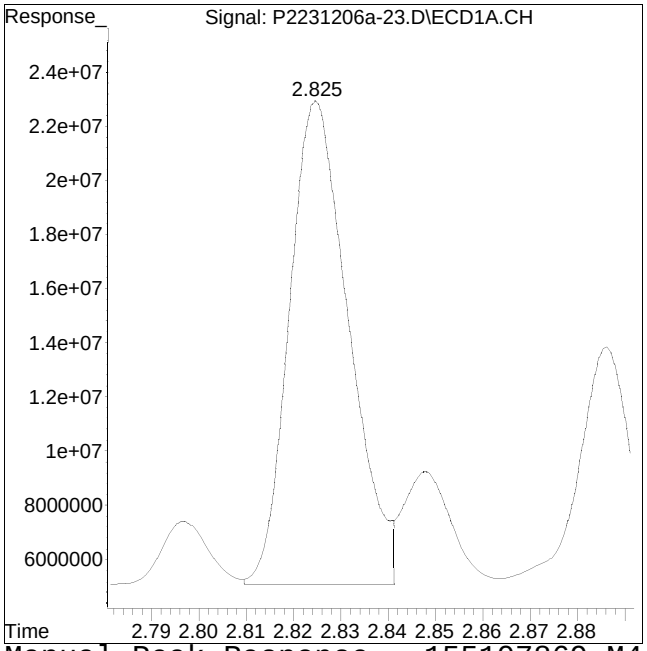
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-23.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:37 pm Instrument : Pest 2
Sample : WG1860227-3,42,, 225 Quant Date : 12/6/2023 3:42 pm

Compound #10: 1260-2



Original Peak Response = 187544122



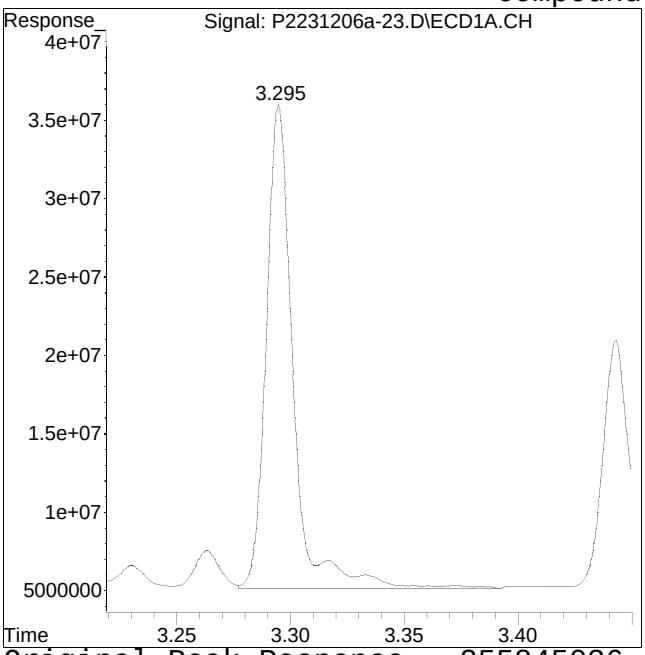
Manual Peak Response = 155107869 M4

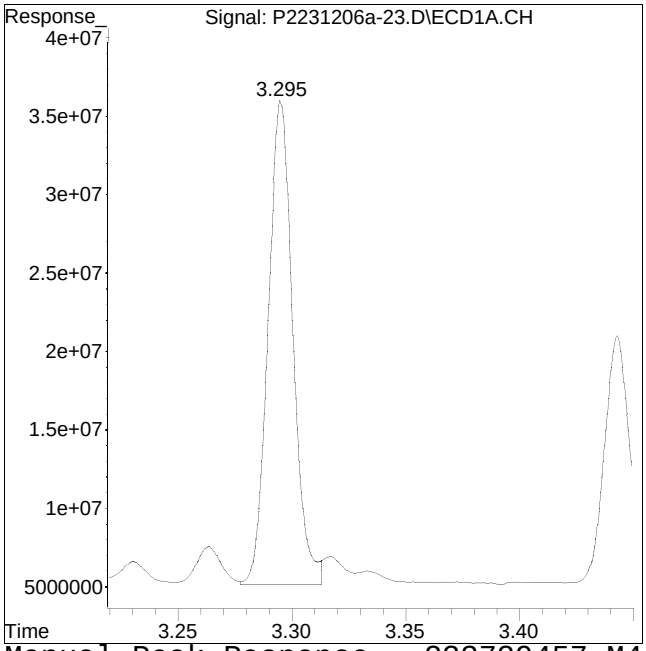
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-23.D Operator : pest2:meo
Date Inj'd : 12/6/2023 2:37 pm Instrument : Pest 2
Sample : WG1860227-3,42,, 225 Quant Date : 12/6/2023 3:42 pm

Compound #12: 1260-4





Original Peak Response = 255845036 Manual Peak Response = 233739457 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:13 pm
Operator : pest2:meo
Sample : WG1859857-4,42,, ms
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:56:52 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.183	1.252	201.9E6	269.4E6	25.000M4	25.000
Standard Area 1 : #1 = 206843320				Recovery =	97.60%	
Standard Area 1 : #2 = 303600275				Recovery =	88.73%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.465	1.622	169.7E6	250.2E6	13.792	13.989
Spiked Amount 20.000	Range 30 - 150		Recovery =	68.96%	69.95%	
3) s Decachlorobi	4.026	4.548	162.9E6	188.7E6	14.704M4	15.326
Spiked Amount 20.000	Range 30 - 150		Recovery =	73.52%	76.63%	
Target Compounds						
4) l1 1016-1	1.602	1.821	38930331	57091028	179.375M4	181.397
5) l1 1016-2	1.743	1.991	76073918	124.4E6	176.671	178.105
6) l1 1016-3	1.929	2.192	144.3E6	235.5E6	151.165M4	171.094
7) l1 1016-4	1.984	2.252	68255816	99917032	166.013	173.485
8) l1 1016-5	2.154	2.462	72058515	84395717	171.468	186.169
Sum 1016-1			399.6E6	601.3E6	844.691	890.250
Average 1016-1					168.938	178.050
9) l2 1260-1	2.694	3.071	95274834	175.7E6	155.840	208.708
10) l2 1260-2	2.823	3.174	147.4E6	184.1E6	157.396M4	188.054
11) l2 1260-3	3.139	3.566	94083144	161.4E6	150.850	195.995
12) l2 1260-4	3.294	3.696	220.5E6	302.6E6	168.212M4	186.827
13) l2 1260-5	3.442	3.897	166.6E6	212.8E6	172.381	190.725
Sum 1260-1			723.8E6	1036.5E6	804.680	970.309
Average 1260-1					160.936	194.062
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:13 pm
Operator : pest2:meo
Sample : WG1859857-4,42,, ms
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:56:52 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

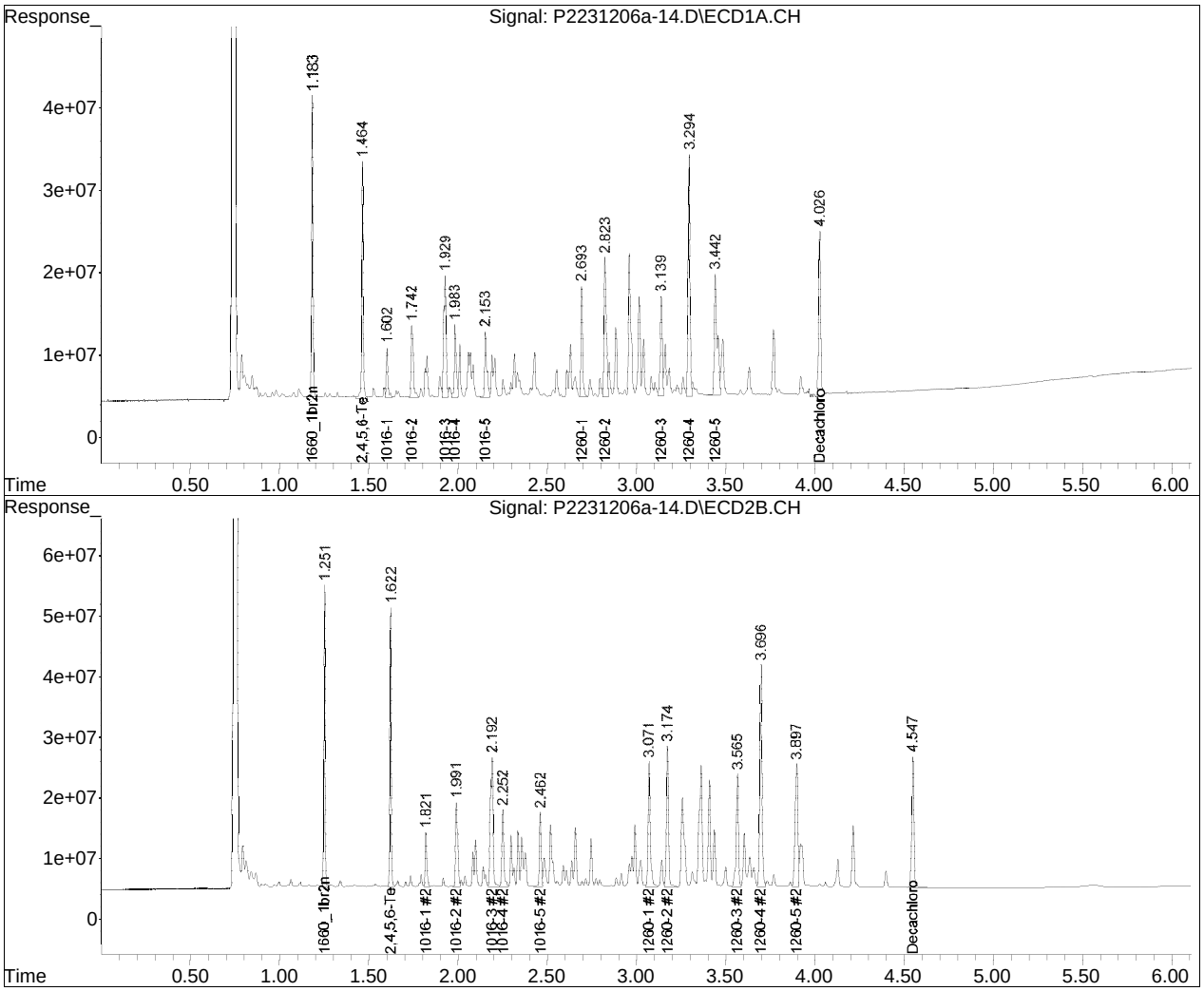
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2023\231206a\P2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-14.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:13 pm
Operator : pest2:meo
Sample : WG1859857-4,42,, ms
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:56:52 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

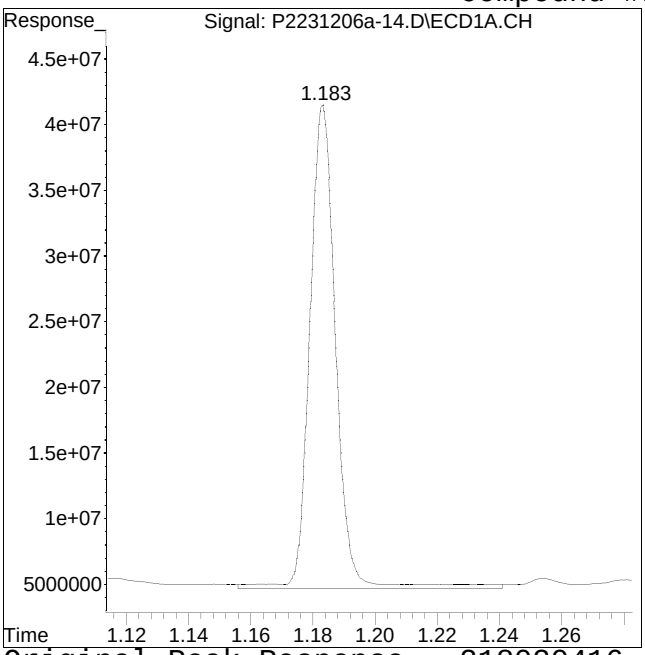
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

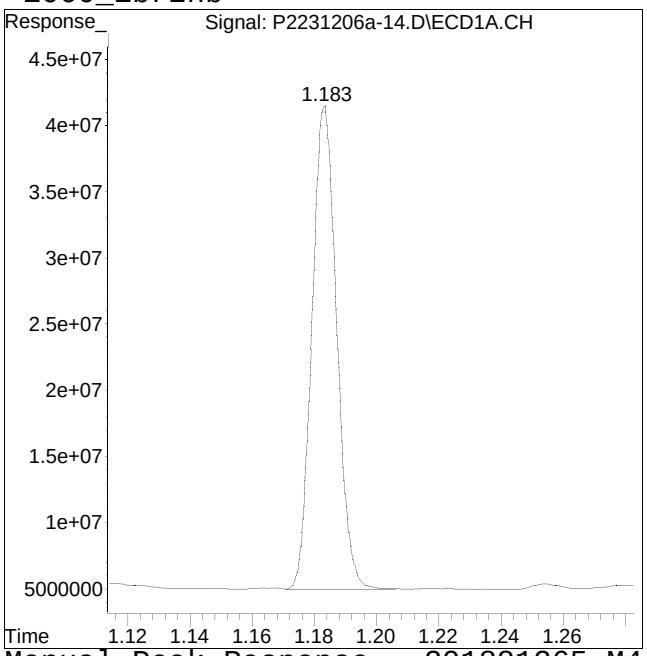


Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-14.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:13 pm Instrument : Pest 2
Sample : WG1859857-4,42,, ms Quant Date : 12/6/2023 3:42 pm

Compound #1: 1660_1br2nb



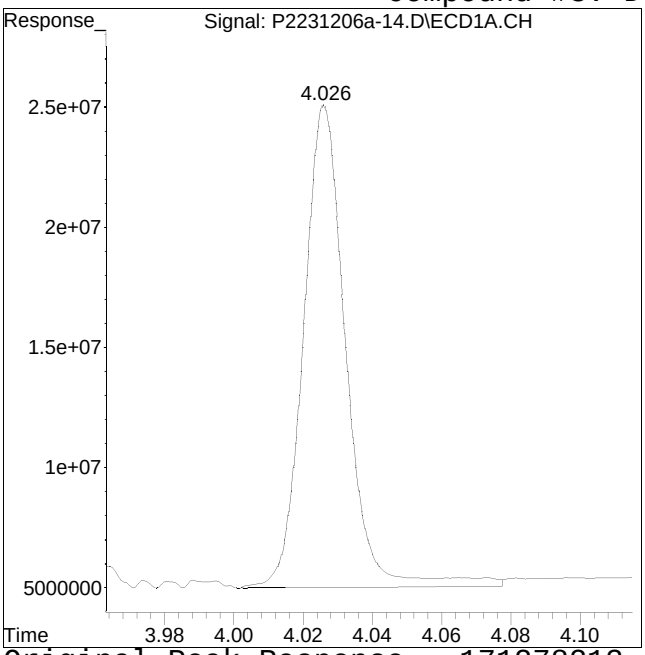


Original Peak Response = 218020416 Manual Peak Response = 201881265 M4
M4 = Poor automated baseline construction.

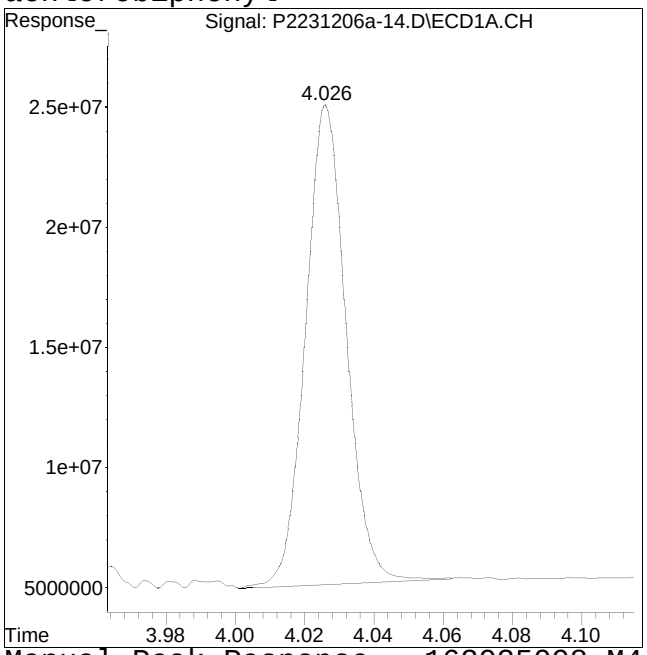
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-14.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:13 pm Instrument : Pest 2
Sample : WG1859857-4,42,, ms Quant Date : 12/6/2023 3:42 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 171278213



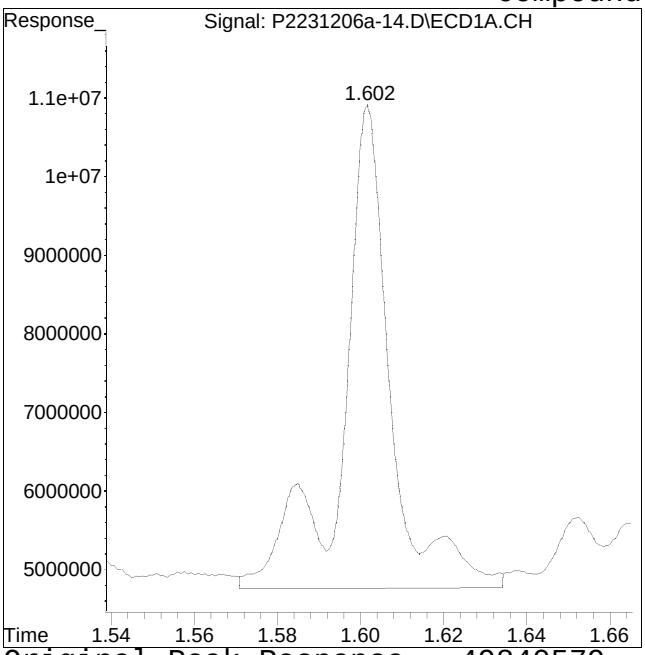
Manual Peak Response = 162935098 M4

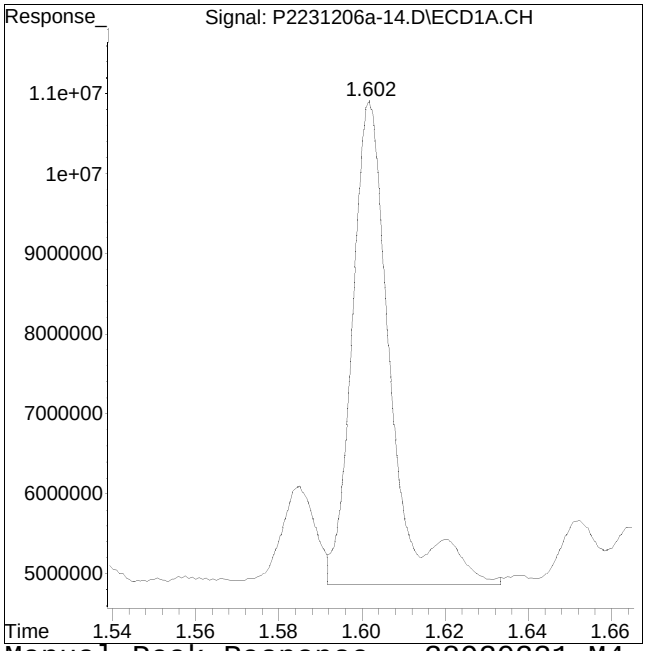
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-14.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:13 pm Instrument : Pest 2
Sample : WG1859857-4,42,, ms Quant Date : 12/6/2023 3:42 pm

Compound #4: 1016-1



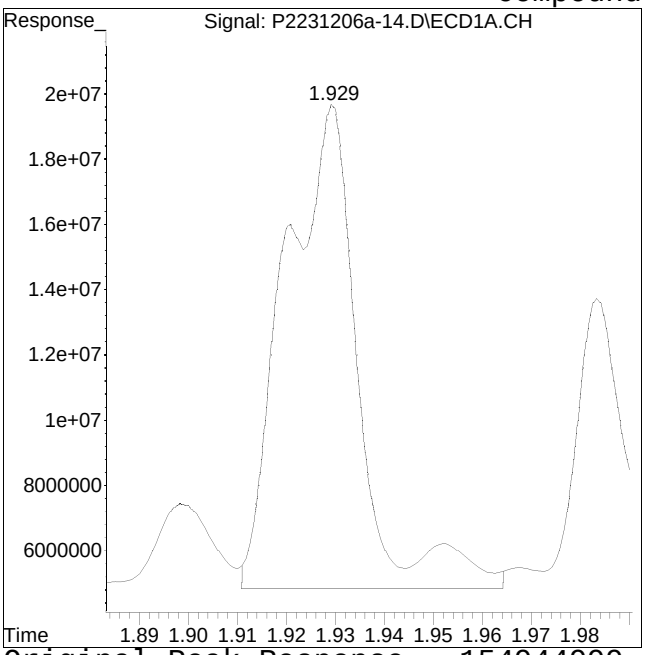


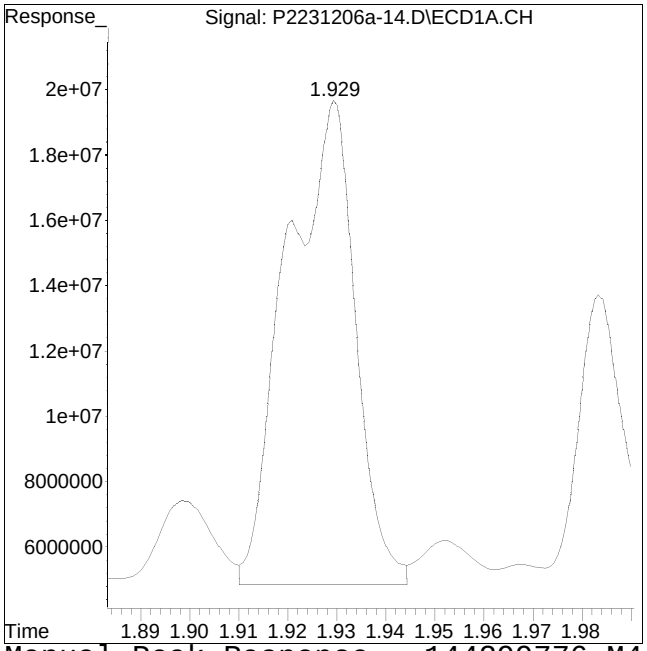
Original Peak Response = 49840579 Manual Peak Response = 38930331 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-14.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:13 pm Instrument : Pest 2
Sample : WG1859857-4,42,, ms Quant Date : 12/6/2023 3:42 pm

Compound #6: 1016-3



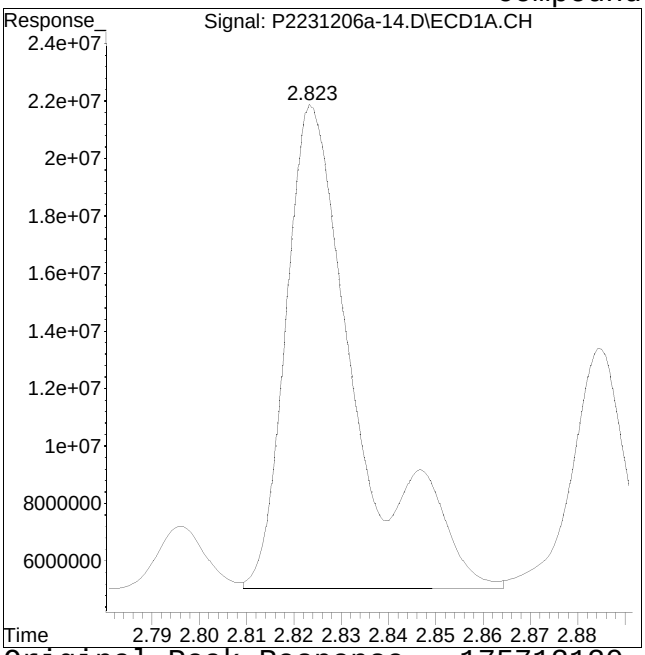


Original Peak Response = 154944999 Manual Peak Response = 144299776 M4
M4 = Poor automated baseline construction.

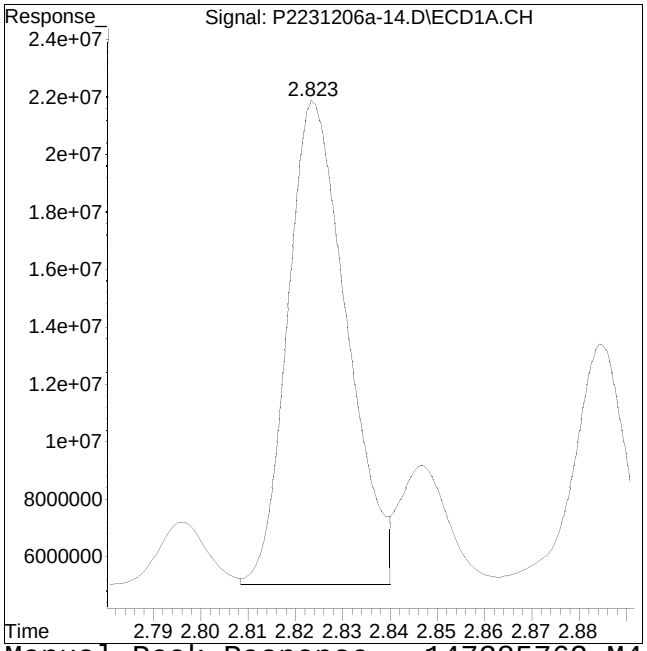
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-14.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:13 pm Instrument : Pest 2
Sample : WG1859857-4,42,, ms Quant Date : 12/6/2023 3:42 pm

Compound #10: 1260-2



Original Peak Response = 175712120



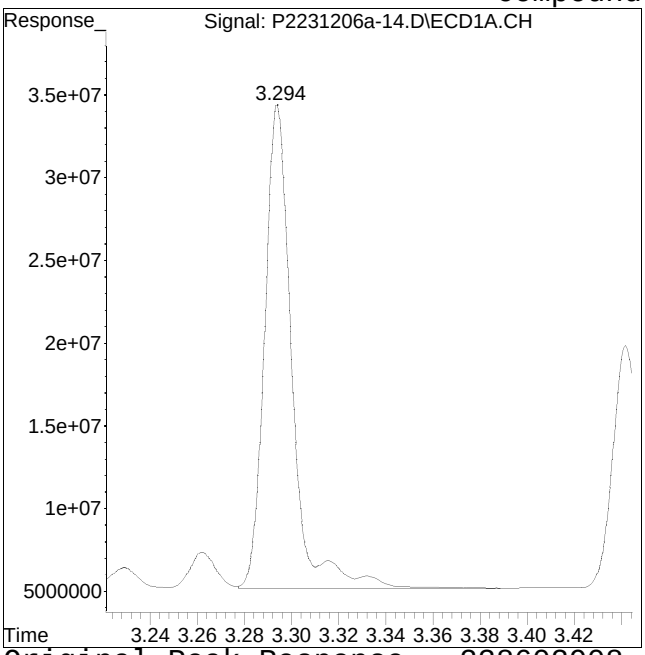
Manual Peak Response = 147385762 M4

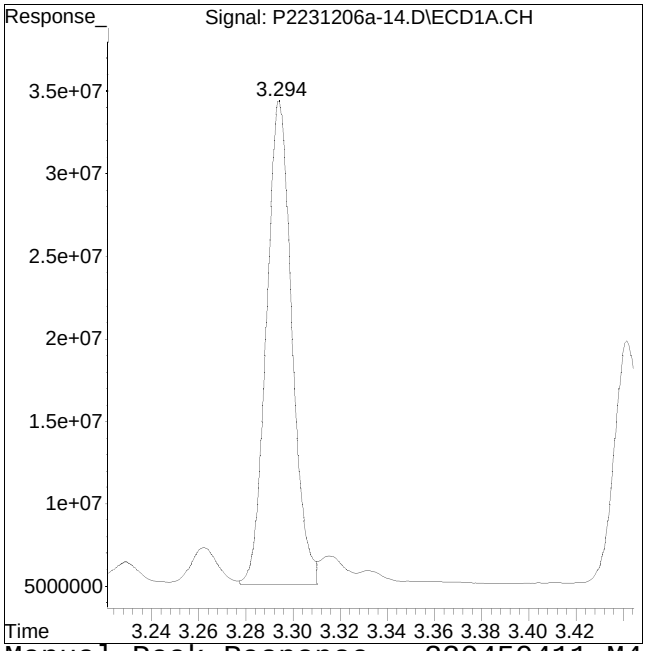
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-14.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:13 pm Instrument : Pest 2
Sample : WG1859857-4,42,, ms Quant Date : 12/6/2023 3:42 pm

Compound #12: 1260-4





Original Peak Response = 238602908 Manual Peak Response = 220450411 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:22 pm
Operator : pest2:meo
Sample : WG1859857-5,42,, msd
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:58:03 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.183	1.252	200.8E6	272.1E6	25.000M4	25.000
Standard Area 1 : #1 = 206843320				Recovery =	97.07%	
Standard Area 1 : #2 = 303600275				Recovery =	89.63%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	1.465	1.622	144.6E6	237.2E6	11.817M4	13.131
Spiked Amount	20.000	Range 30 - 150		Recovery =	59.09%	65.66%
3) s Decachlorobi	4.026	4.547	135.4E6	162.5E6	12.290	13.061
Spiked Amount	20.000	Range 30 - 150		Recovery =	61.45%	65.31%
Target Compounds						
4) l1 1016-1	1.602	1.821	35405640	57069862	164.022M4	179.503
5) l1 1016-2	1.742	1.992	69313135	118.4E6	161.845M4	167.880
6) l1 1016-3	1.929	2.193	132.1E6	222.5E6	139.118M4	159.989
7) l1 1016-4	1.985	2.253	62324792	95909403	152.411	164.849
8) l1 1016-5	2.154	2.463	65636086	81110366	157.034	177.119
Sum 1016-1			364.8E6	575.0E6	774.430	849.341
Average 1016-1					154.886	169.868
9) l2 1260-1	2.695	3.072	88447700	165.2E6	145.459	194.307
10) l2 1260-2	2.824	3.175	135.4E6	170.0E6	145.372M4	171.910
11) l2 1260-3	3.140	3.566	85258011	146.7E6	137.444	176.369
12) l2 1260-4	3.294	3.697	200.1E6	274.7E6	153.550M4	167.919
13) l2 1260-5	3.442	3.897	149.8E6	192.9E6	155.905	171.200
Sum 1260-1			659.1E6	949.6E6	737.731	881.705
Average 1260-1					147.546	176.341
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:22 pm
Operator : pest2:meo
Sample : WG1859857-5,42,, msd
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:58:03 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PCB\Pest2\2023\231206a\P2231206a-03.D
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

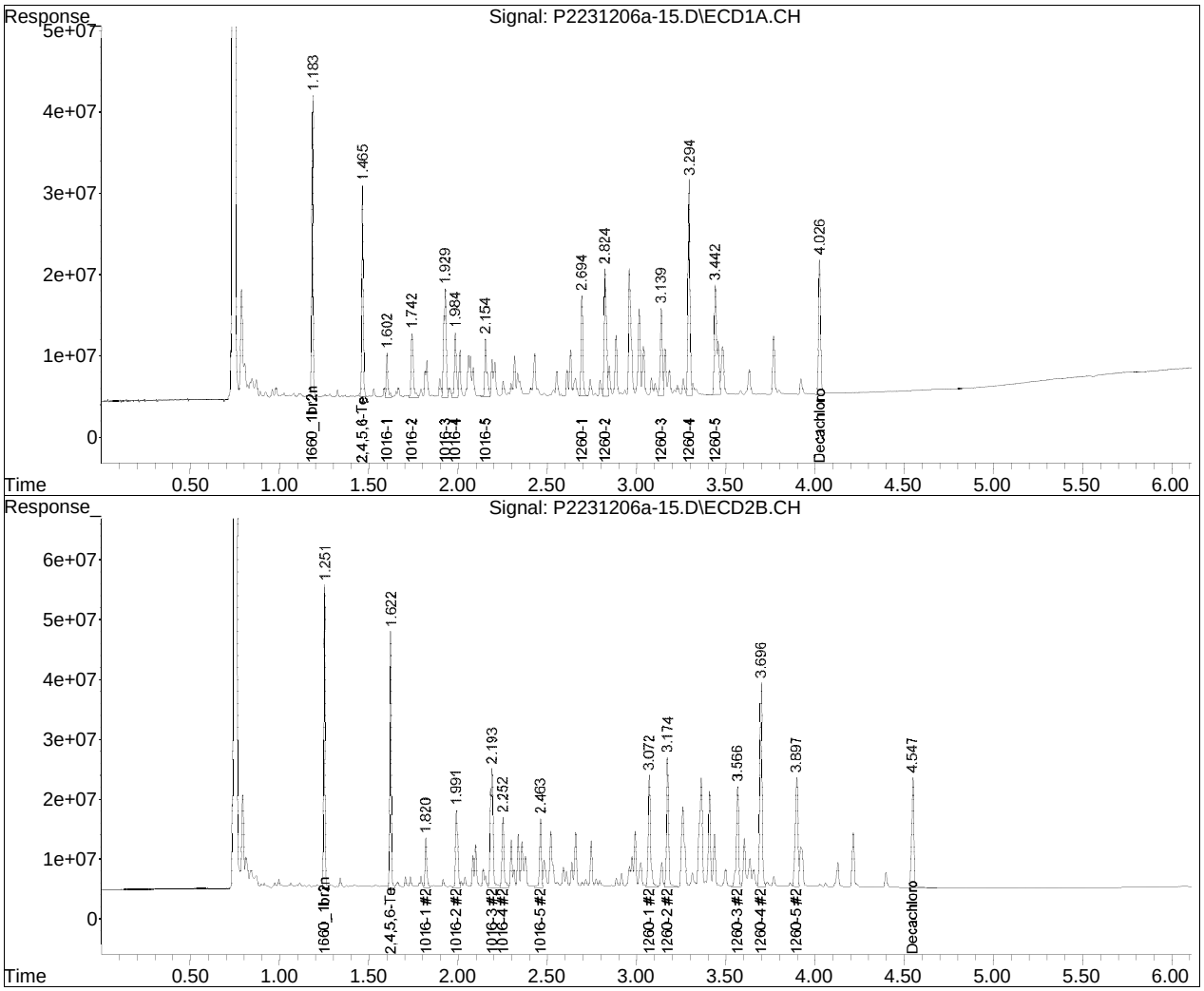
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660Pest2\2023\231206a\P2231206a-03.D••

Data Path : I:\PCB\Pest2\2023\231206a\
Data File : P2231206a-15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 06 Dec 2023 1:22 pm
Operator : pest2:meo
Sample : WG1859857-5,42,, msd
Misc : WG1860406,WG1859857,ical20537
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:58:03 2023
Quant Method : I:\PCB\Pest2\2023\231206A\P2_pcb_11_09_23_LVI_ugL_ICAL20537.m
Quant Title : pcb
QLast Update : Thu Nov 09 16:07:24 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

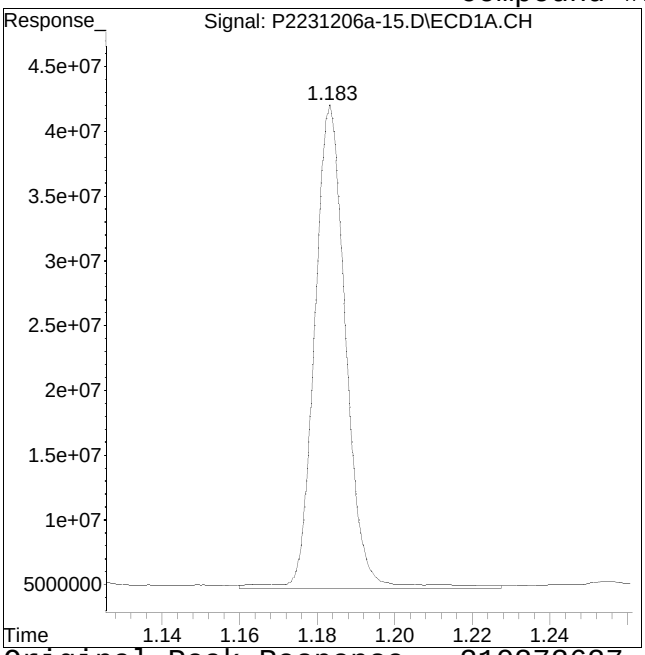
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



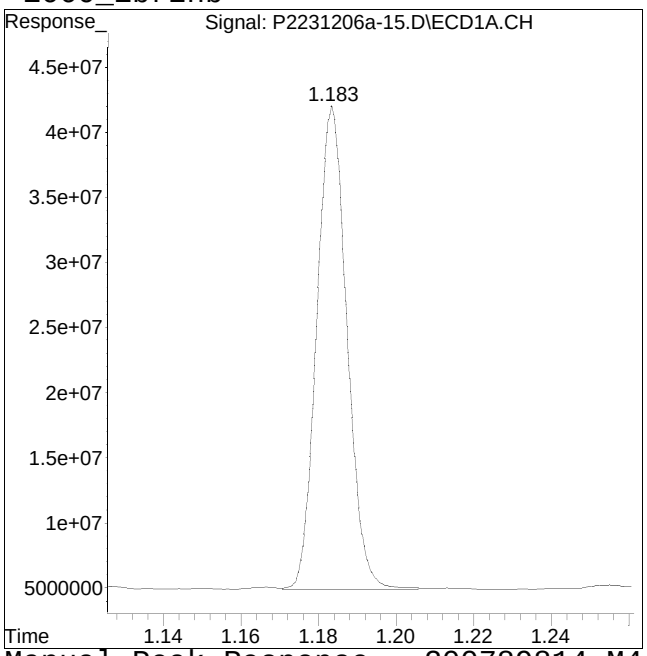
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-15.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:22 pm Instrument : Pest 2
Sample : WG1859857-5,42,, msd Quant Date : 12/6/2023 3:42 pm

Compound #1: 1660_1br2nb



Original Peak Response = 210272627



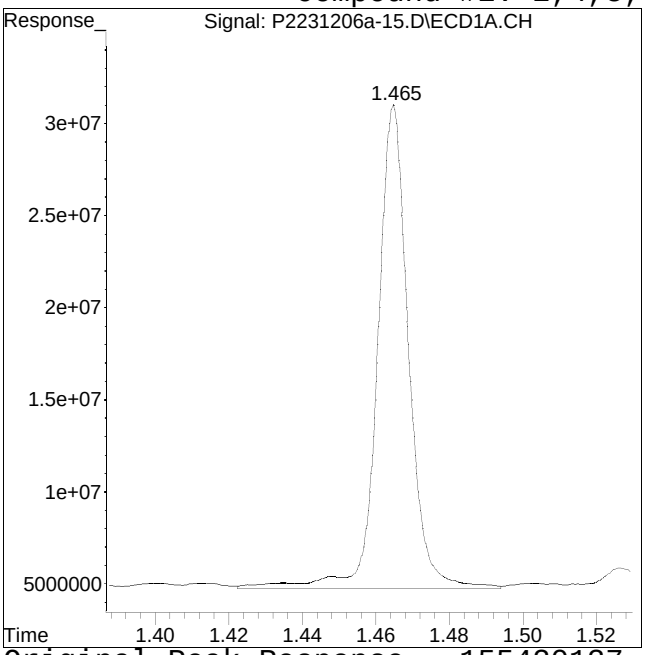
Manual Peak Response = 200789814 M4

M4 = Poor automated baseline construction.

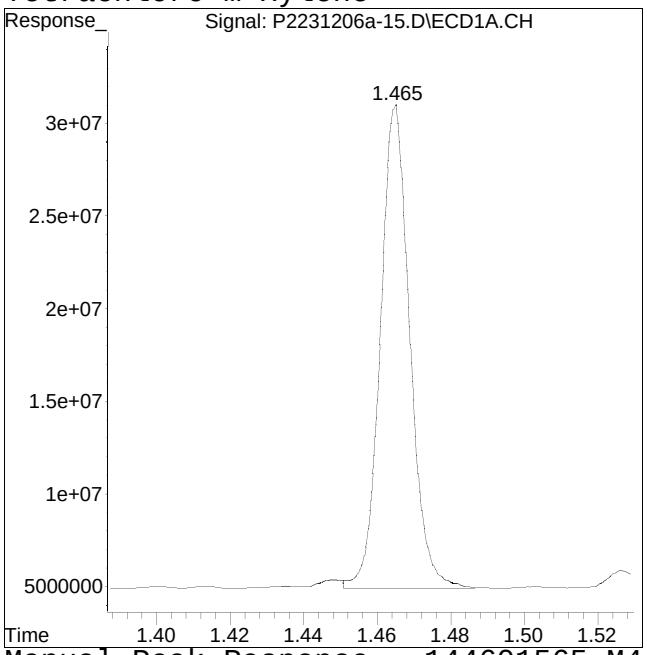
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-15.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:22 pm Instrument : Pest 2
Sample : WG1859857-5,42,, msd Quant Date : 12/6/2023 3:42 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 155420137

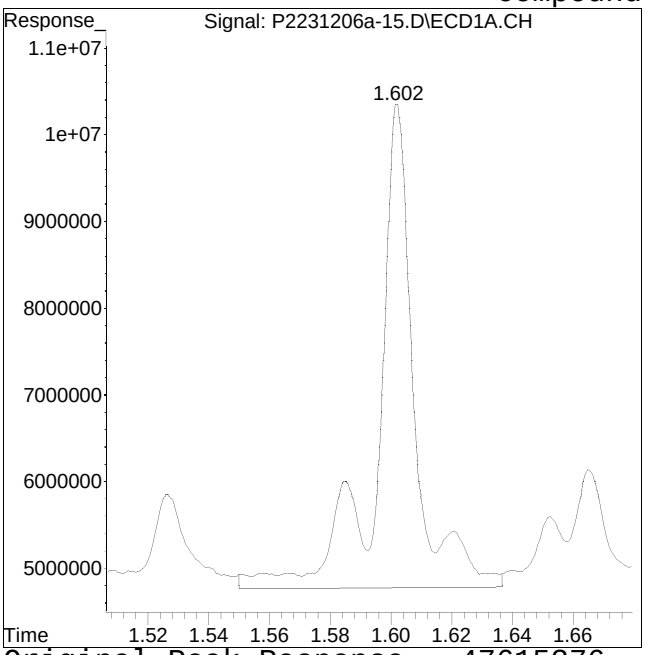


Manual Peak Response = 144601565 M4
M4 = Poor automated baseline construction.

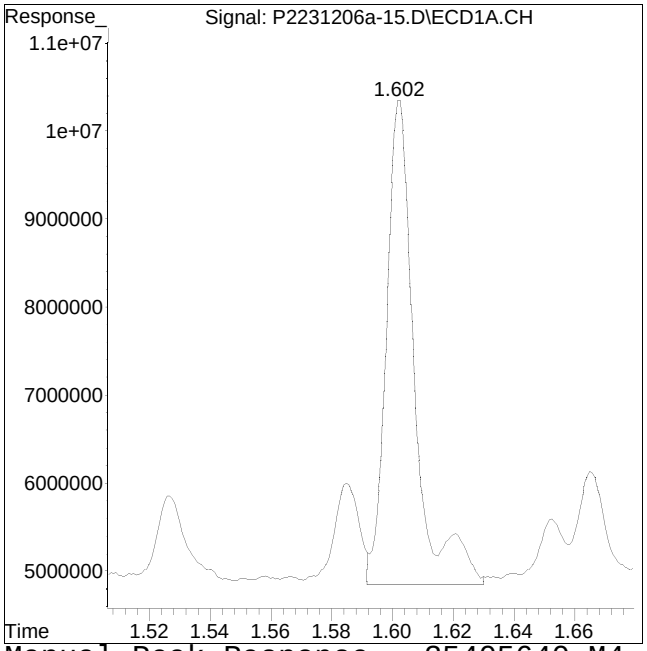
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-15.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:22 pm Instrument : Pest 2
Sample : WG1859857-5,42,, msd Quant Date : 12/6/2023 3:42 pm

Compound #4: 1016-1



Original Peak Response = 47615376



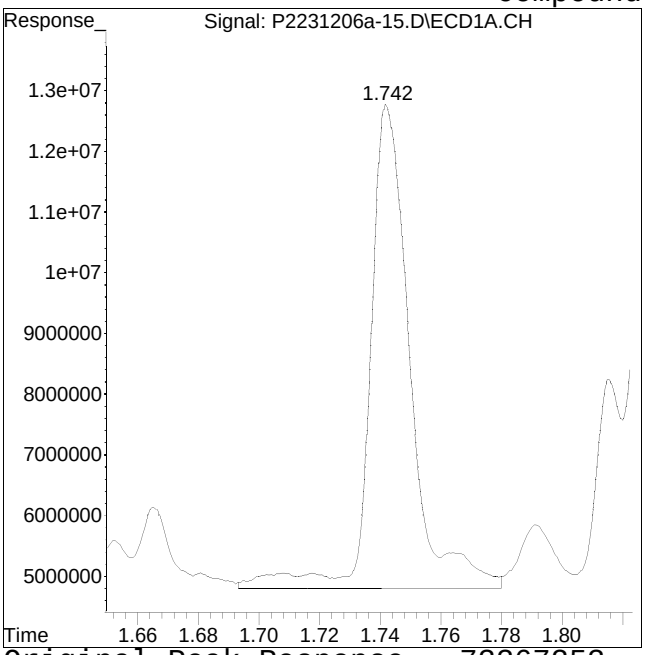
Manual Peak Response = 35405640 M4

M4 = Poor automated baseline construction.

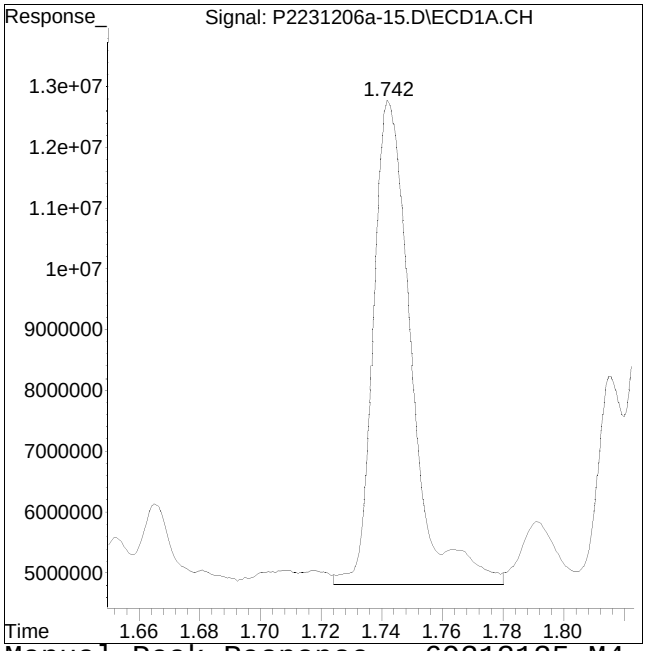
Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-15.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:22 pm Instrument : Pest 2
Sample : WG1859857-5,42,, msd Quant Date : 12/6/2023 3:42 pm

Compound #5: 1016-2



Original Peak Response = 73367253



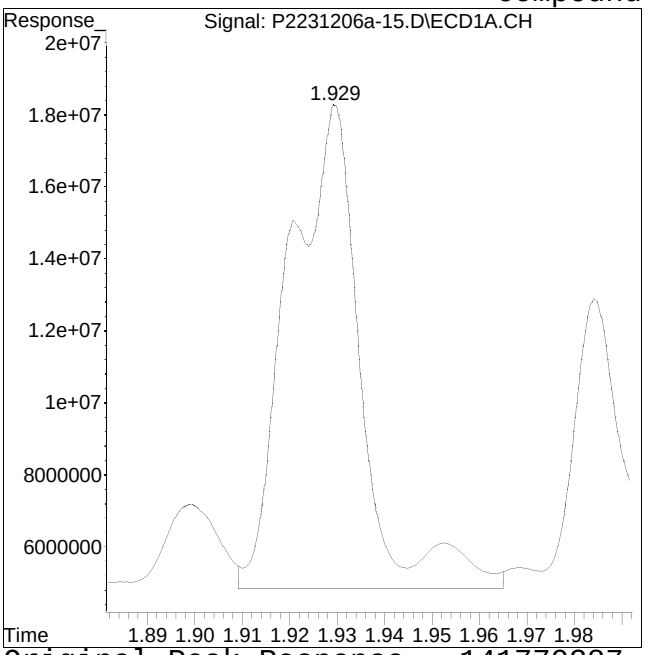
Manual Peak Response = 69313135 M4

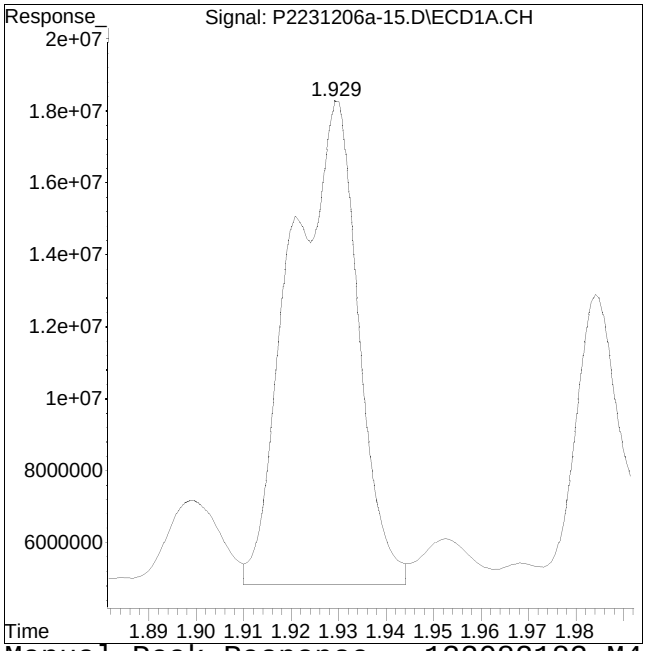
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-15.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:22 pm Instrument : Pest 2
Sample : WG1859857-5,42,, msd Quant Date : 12/6/2023 3:42 pm

Compound #6: 1016-3



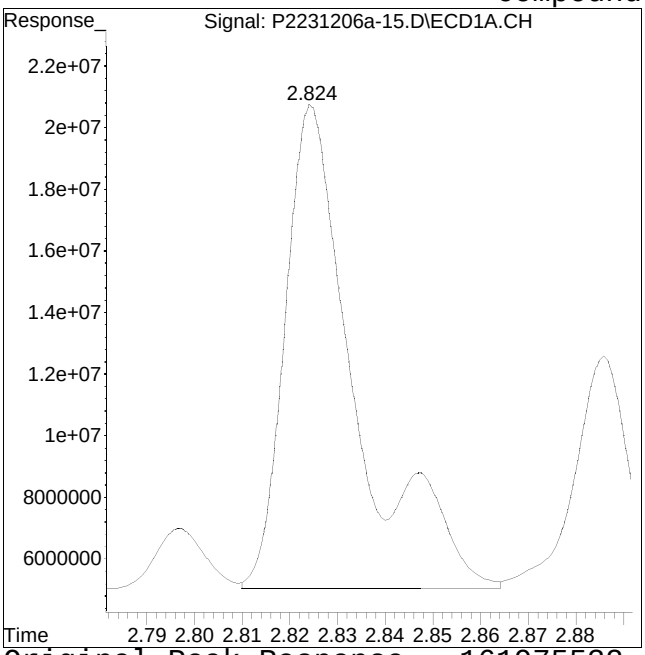


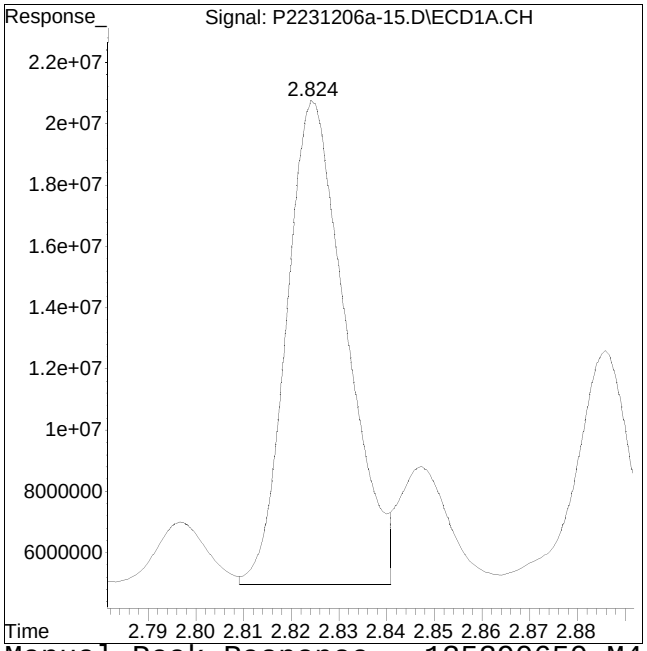
Original Peak Response = 141770387 Manual Peak Response = 132082183 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-15.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:22 pm Instrument : Pest 2
Sample : WG1859857-5,42,, msd Quant Date : 12/6/2023 3:42 pm

Compound #10: 1260-2



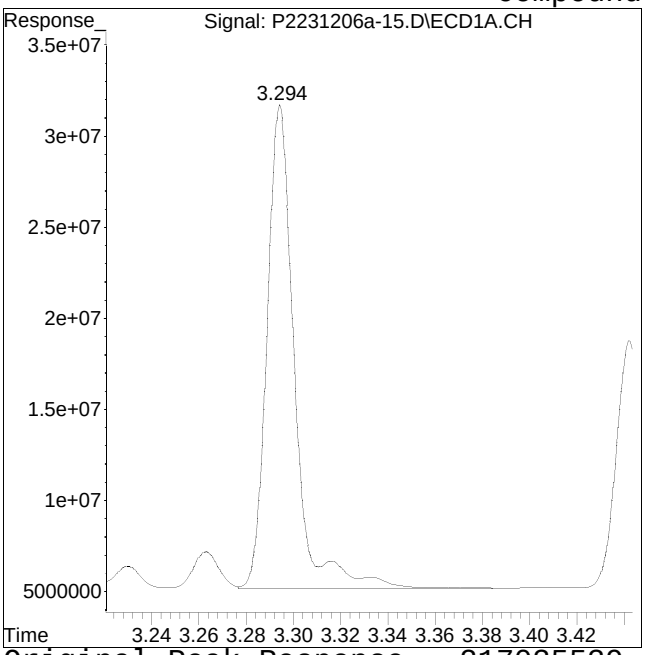


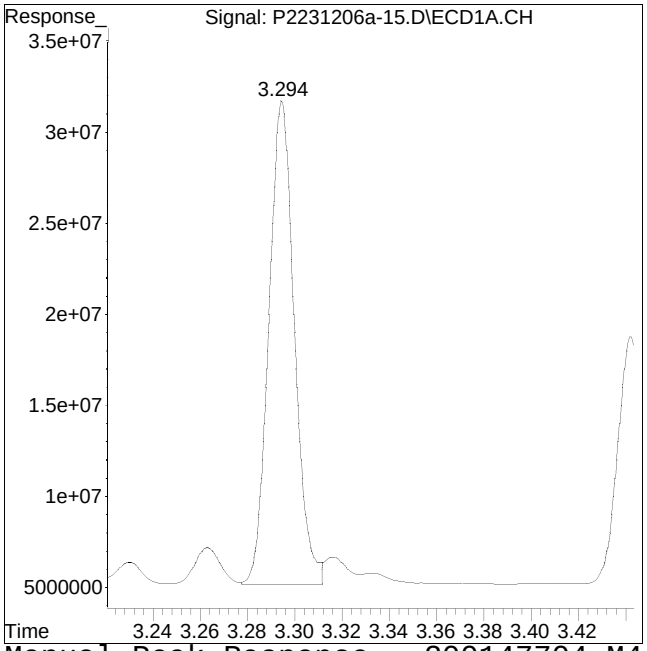
Original Peak Response = 161975532 Manual Peak Response = 135390650 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PCB\Pest2\2023\231206a\QMethod : P2_pcb_11_09_23_LVI_ugL_
Data File : P2231206a-15.D Operator : pest2:meo
Date Inj'd : 12/6/2023 1:22 pm Instrument : Pest 2
Sample : WG1859857-5,42,, msd Quant Date : 12/6/2023 3:42 pm

Compound #12: 1260-4





Original Peak Response = 217035539 Manual Peak Response = 200147704 M4
M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PCB
Inst: Pest_2
Date: **11/09/23**
Run: **I**

Method
GC: lvi

Seq: ICAL 20537
IS: pp11313

Vial	Data File	Sample	CCAL	notes	initials
1	P2231109i-01	blank			
2	P2231109i-02	+1660 pp11348 lvi			
3	P2231109i-03	il44268,42,, 11343			rmp/kb
4	P2231109i-04	il43262,42,, 11347			rmp/kb
5	P2231109i-05	il41248,42,, 11345			rmp/kb
6	P2231109i-06	il42154,42,, 11341			rmp/kb
7	P2231109i-07	il11660,42,, 11381			rmp/kb
8	P2231109i-08	il21660,42,, 11381			rmp/kb
9	P2231109i-09	il31660,42,, 11381			rmp/kb
10	P2231109i-10	il41660,42,, 11381			rmp/kb
11	P2231109i-11	il51660,42,, 11381			rmp/kb
12	P2231109i-12	il61660,42,, 11381			rmp/kb
13	P2231109i-13	cicv4268,42,, 11350			rmp/kb
14	P2231109i-14	cicv3262,42,, 11352			rmp/kb
15	P2231109i-15	cicv1248,42,, 11351			rmp/kb
16	P2231109i-16	cicv2154,42,, 11349			rmp/kb
17	P2231109i-17	cicv1660,42,, 11348		V to F17 rmp	rmp/kb

Dep.: PCB
Inst: Pest_2
Date: **12/06/23**
Run: **a**

Method
GC: lvi

Seq: wg1860406
IS: pp11313

Vial	Data File	Sample	CCAL	notes	initials
1	P2231206a-01	blank			
2	P2231206a-02	+1660 pp11386 ccal lvi			
3	P2231206a-03	+1660 pp11386 ccal lvi	20% 9:27 AM mhg		meo12/6
4	P2231206a-04	+2154 pp11349 lvi			
5	P2231206a-05	+1248 pp11351 lvi	pass - meo		meo12/6
6	P2231206a-06	+4268 pp11350 lvi	pass - meo		meo12/6
7	P2231206a-07	WG1859857-1,42,,			meo12/6
8	P2231206a-08	WG1859857-2,42,,			meo12/6
9	P2231206a-09	WG1859857-3,42,,			meo12/6
10	P2231206a-10	L2370783-01,42,,			meo12/6
11	P2231206a-11	L2370783-02,42,,			meo12/6
12	P2231206a-12	L2370783-03,42,,			meo12/6
13	P2231206a-13	L2370783-04,42,, p			meo12/6
14	P2231206a-14	WG1859857-4,42,, ms			meo12/6
15	P2231206a-15	WG1859857-5,42,, msd			meo12/6
16	P2231206a-16	L2370783-05,42,,			meo12/6
17	P2231206a-17	L2370783-06,42,,			meo12/6
18	P2231206a-18	L2370783-07,42,,			meo12/6
19	P2231206a-19	L2370783-09,42,,			meo12/6
20	P2231206a-20	L2370783-11,42,,			meo12/6
21	P2231206a-21	WG1860227-1,42,, 225			meo12/6
22	P2231206a-22	WG1860227-2,42,, 225			meo12/6
23	P2231206a-23	WG1860227-3,42,, 225			meo12/6
24	P2231206a-24	L2370783-08,42,,			meo12/6
25	P2231206a-25	L2371287-02,42,,,R3C			meo12/6
26	P2231206a-26	L2371287-01,42,,,R3C	5x (48)	S to F26 meo	
27	P2231206a-27	+1660 pp11386 ccal lvi	low, bake	V to F27 mhg	
28	P2231206a-28	+1660 pp11386 ccal lvi	20% 5:09 pm 406-5 AD		AD 12/6
29	P2231206a-29	+2154 pp11349 lvi			
30	P2231206a-30	+1248 pp11351 lvi	passes		AD 12/6
31	P2231206a-31	+4268 pp11350 lvi	passes		AD 12/6
32	P2231206a-32	blank			
33	P2231206a-33	L2349792-106,42,,			AD 12/6
34	P2231206a-34	WG1860225-4,42,,			AD 12/6
35	P2231206a-35	WG1860225-5,42,,			AD 12/6
36	P2231206a-36	L2371287-01d,42,5,,R3C	42,68		AD 12/6
37	P2231206a-37	L2371214-01,42,,			AD 12/6
38	P2231206a-38	L2371097-01,42,,			AD 12/6
39	P2231206a-39	L2371097-02,42,,	42		AD 12/6
40	P2231206a-40	L2371097-03,42,,	42		AD 12/6
41	P2231206a-41	L2371097-04,42,,			AD 12/6
42	P2231206a-42	L2371097-05,42,,			AD 12/6
43	P2231206a-43	L2371097-06,42,,			AD 12/6
44	P2231206a-44	L2371128-20,42,,			AD 12/6
45	P2231206a-45	L2371128-21,42,,		S + V to F45 AD	AD 12/6

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 07 2023, 12:09 pm

Work Group: WG1859857 for Department: 2 Organic Preparation

Created: 05-DEC-23 Due: Operator: MAD

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2370783-01	MW-1S	S	NYTCL-8082-LVI	WATER	DONE	U	1128	1207	S0	Amber-A.120
L2370783-02	MW-2S	S	NYTCL-8082-LVI	WATER	DONE	U	1128	1207	S0	Amber-A.120
L2370783-03	MW-3S	S	NYTCL-8082-LVI	WATER	DONE	U	1128	1207	S0	Amber-A.120
L2370783-04	MW-4D	S	NYTCL-8082-LVI	WATER	DONE	U	1128	1207	S0	Amber-A.120
L2370783-05	MW-5S	S	NYTCL-8082-LVI	WATER	DONE	U	1128	1207	S0	Amber-A.120
L2370783-06	MW-6D	S	NYTCL-8082-LVI	WATER	DONE	U	1128	1207	S0	Amber-A.120
L2370783-07	MW-7S	S	NYTCL-8082-LVI	WATER	DONE	U	1128	1207	S0	Amber-A.120
L2370783-09	DUP	S	NYTCL-8082-LVI	WATER	DONE	U	1128	1207	S0	Amber-A.120
L2370783-11	EB	S	NYTCL-8082-LVI	WATER	DONE	U	1128	1207	S0	Amber-A.120
WG1859857-1	Laboratory Method Bl	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1859857-2	Laboratory Control S	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1859857-3	LCS Duplicate	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1859857-4	Matrix Spike	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1859857-5	Matrix Spike Duplica	S	NYTCL-8082-LVI	WATER	DONE	U				

Comments:

WG1859857-3	WG1859857-2
WG1859857-4	L2370783-04
WG1859857-5	L2370783-04

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 07 2023, 12:09 pm

Work Group: WG1860227 for Department: 2 Organic Preparation

Created: 06-DEC-23 Due: Operator: FMM

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2370783-08	MW-8S	S	NYTCL-8082-LVI	WATER	DONE	U	1128	1207	S0	Amber-A.120
L2371097-01	MW-101-4	S	NYTCL-8082-LVI	WATER	DONE	U	1130	1208	S0	Amber-A.120
L2371097-02	MW-101-10S(R)	S	NYTCL-8082-LVI	WATER	DONE	U	1130	1208	S0	Amber-A.120
L2371097-03	MW-101-1(R)	S	NYTCL-8082-LVI	WATER	DONE	U	1130	1208	S0	Amber-A.120
L2371097-04	MW-101-8I(R)	S	NYTCL-8082-LVI	WATER	DONE	U	1130	1208	S0	Amber-A.120
L2371097-05	MW-101-8S(R)	S	NYTCL-8082-LVI	WATER	DONE	U	1130	1208	S0	Amber-A.120
L2371097-06	MW-101-3	S	NYTCL-8082-LVI	WATER	DONE	U	1130	1208	S0	Amber-A.120
L2371128-20	MW13I	S	NYTCL-8082-LVI	WATER	DONE	U	1129	1208	S0	Amber-A.120
L2371128-21	RB-12.1.23	S	NYTCL-8082-LVI	WATER	DONE	U	1130	1208	S0	Amber-A.120
WG1860227-1	Laboratory Method Bl	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1860227-2	Laboratory Control S	S	NYTCL-8082-LVI	WATER	DONE	U				
WG1860227-3	LCS Duplicate	S	NYTCL-8082-LVI	WATER	DONE	U				

Comments:

WG1860227-3 WG1860227-2

ORGANIC ELN REPORT

Workgroup: WG1860227

Prep Method: EPA 3510C
Solvent Type: DCM **Lot #:** EH486
Surrogate Type: Pesticide/PCB **Lot #:** pp11385d-050724,
Spike Type: PCB **Lot #:** PP11272b-011824,
Spike Verify by: FMM
Lims Spikelot: PCB-LVI

Additional Reagents/Stds

Na2SO4	23F1561004

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EH513

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EH513

Additional Reagents/Stds

H2SO4	2023081557

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** EH513

Additional Reagents/Stds

Copper	2310CPRG003ON

Cleanup 3

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2370783-08 WATER	12/06/23 00:19	Francis Mbro-Menyah	140	>5,<9	.1		12/06/23 05:47	Rabbi Kyei-Baffour	5	D/A,#1
L2371097-01 WATER	12/06/23 00:19	Francis Mbro-Menyah	140	>5,<9	.1		12/06/23 05:47	Rabbi Kyei-Baffour	5	D/A,#1
L2371097-02 WATER	12/06/23 00:19	Francis Mbro-Menyah	140	>5,<9	.1		12/06/23 05:47	Rabbi Kyei-Baffour	5	D/A,#1
L2371097-03 WATER	12/06/23 00:19	Francis Mbro-Menyah	140	>5,<9	.1		12/06/23 05:47	Rabbi Kyei-Baffour	5	D/A,#1

Reported: 07-DEC-23 12:09 PM

ORGANIC ELN REPORT

Workgroup: WG1860227

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2371097-04 WATER	12/06/23 00:19	Francis Mbro-Menyah	140	>5,<9	.1		12/06/23 05:47	Rabbi Kyei-Baffour	5	D/A,#1
L2371097-05 WATER	12/06/23 00:19	Francis Mbro-Menyah	140	>5,<9	.1		12/06/23 05:47	Rabbi Kyei-Baffour	5	D/A,#1
L2371097-06 WATER	12/06/23 00:19	Francis Mbro-Menyah	140	>5,<9	.1		12/06/23 05:47	Rabbi Kyei-Baffour	5	D/A,#1
L2371128-20 WATER	12/06/23 00:19	Francis Mbro-Menyah	140	>5,<9	.1		12/06/23 05:47	Rabbi Kyei-Baffour	5	D/A,#1
L2371128-21 WATER	12/06/23 00:19	Francis Mbro-Menyah	140	>5,<9	.1		12/06/23 05:47	Rabbi Kyei-Baffour	5	D/A,#1
WG1860227-1 BLANK	12/06/23 00:19 **WG1860225**	Francis Mbro-Menyah	140	>5,<9	.1		12/06/23 05:44	Rabbi Kyei-Baffour	5	D/A,#1
WG1860227-2 LCS	12/06/23 00:19 **WG1860225**	Francis Mbro-Menyah	140	>5,<9	.1	.1	12/06/23 05:44	Rabbi Kyei-Baffour	5	D/A,#1
WG1860227-3 LCSD	12/06/23 00:19 **WG1860225**	Francis Mbro-Menyah	140	>5,<9	.1	.1	12/06/23 05:44	Rabbi Kyei-Baffour	5	D/A,#1

Reported: 07-DEC-23 12:09 PM

ORGANIC ELN REPORT

Workgroup: WG1860227

Reported: 07-DEC-23 12:09 PM

ORGANIC ELN REPORT

Workgroup: WG1860227

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2370783-08 WATER	12/06/23 06:04	Helen Amankwah	5	1	12/06/23 09:51	Helen Amankwah
L2371097-01 WATER	12/06/23 06:04	Helen Amankwah	5	1	12/06/23 09:51	Helen Amankwah
L2371097-02 WATER	12/06/23 06:04	Helen Amankwah	5	1	12/06/23 09:51	Helen Amankwah
L2371097-03 WATER	12/06/23 06:04	Helen Amankwah	5	1	12/06/23 09:51	Helen Amankwah
L2371097-04 WATER	12/06/23 06:04	Helen Amankwah	5	1	12/06/23 09:51	Helen Amankwah
L2371097-05 WATER	12/06/23 06:04	Helen Amankwah	5	1	12/06/23 09:51	Helen Amankwah
L2371097-06 WATER	12/06/23 06:04	Helen Amankwah	5	1	12/06/23 09:51	Helen Amankwah
L2371128-20 WATER	12/06/23 06:04	Helen Amankwah	5	1	12/06/23 09:51	Helen Amankwah
L2371128-21 WATER	12/06/23 06:04	Helen Amankwah	5	1	12/06/23 09:51	Helen Amankwah
WG1860227-1 BLANK	12/06/23 06:04	Helen Amankwah	5	1	12/06/23 09:51	Helen Amankwah
WG1860227-2 LCS	12/06/23 06:04	Helen Amankwah	5	1	12/06/23 09:51	Helen Amankwah

Reported: 07-DEC-23 12:09 PM

ORGANIC ELN REPORT

Workgroup: WG1860227

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
WG1860227-3 LCSD	12/06/23 06:04	Helen Amankwah	5	1	12/06/23 09:51	Helen Amankwah

Reported: 07-DEC-23 12:09 PM

ORGANIC ELN REPORT

Workgroup: WG1859857

Prep Method: EPA 3510C
Solvent Type: DCM — **Lot #:** EH486
Surrogate Type: Pesticide/PCB — **Lot #:** PP11385E-050724,
Spike Type: PCB — **Lot #:** pp11272b-011824
Spike Verify by: MAD | MAW
Lims Spikelot: PCB-LVI

Additional Reagents/Stds

Na2SO4	23F1561004

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EH513

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane — **Lot #:** EH513

Additional Reagents/Stds

H2SO4	2023081557

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane — **Lot #:** EH513

Additional Reagents/Stds

Copper	2310CPRG003ON

Cleanup 3

Cleanup Method 1:
Solvent Type: — **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: — **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction: Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Concentration: Conc Date	Analyst	Final Vol ml	Conc Unit
L2370783-01 WATER	12/05/23 09:16	Michael Daring	140	>5, <9	.1		12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1
L2370783-02 WATER	12/05/23 09:16	Michael Daring	140	>5, <9	.1		12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1
L2370783-03 WATER	12/05/23 09:16	Michael Daring	140	>5, <9	.1		12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1
L2370783-04 WATER	12/05/23 09:16	Michael Daring	140	>5, <9	.1		12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1

Reported: 07-DEC-23 12:09 PM

ORGANIC ELN REPORT

Workgroup: WG1859857

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2370783-05 WATER	12/05/23 09:16	Michael Daring	140	>5, <9	.1		12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1
L2370783-06 WATER	12/05/23 09:16	Michael Daring	140	>5, <9	.1		12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1
L2370783-07 WATER	12/05/23 09:16	Michael Daring	140	>5, <9	.1		12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1
L2370783-09 WATER	12/05/23 09:16	Michael Daring	140	>5, <9	.1		12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1
L2370783-11 WATER	12/05/23 09:16	Michael Daring	140	>5, <9	.1		12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1
WG1859857-1 BLANK	12/05/23 09:16	Michael Daring	140	>5, <9	.1		12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1
WG1859857-2 LCS	12/05/23 09:16	Michael Daring	140	>5, <9	.1	.1	12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1
WG1859857-3 LCSD	12/05/23 09:16	Michael Daring	140	>5, <9	.1	.1	12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1

ORGANIC ELN REPORT

Workgroup: WG1859857

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1859857-4 MS	12/05/23 09:16	Michael Daring	140	>5, <9	.1	.1	12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1
WG1859857-5 MSD	12/05/23 09:16	Michael Daring	140	>5, <9	.1	.1	12/06/23 01:09	Rabbi Kyei-Baffour	5	D/A,#1

ORGANIC ELN REPORT

Workgroup: WG1859857

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L2370783-01 WATER	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah
L2370783-02 WATER	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah
L2370783-03 WATER	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah
L2370783-04 WATER	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah
L2370783-05 WATER	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah
L2370783-06 WATER	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah
L2370783-07 WATER	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah
L2370783-09 WATER	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah
L2370783-11 WATER	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah
WG1859857-1 BLANK	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah
WG1859857-2 LCS	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah

ORGANIC ELN REPORT

Workgroup: WG1859857

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
WG1859857-3 LCSD	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah
WG1859857-4 MS	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah
WG1859857-5 MSD	12/06/23 05:42	Annabella Sarfo	5	1	12/06/23 10:11	Helen Amankwah

Reported: 07-DEC-23 12:09 PM

GC Extractable Analysis
Pesticides

Pesticide QC Summary

Surrogate Recovery Summary
Form 2
Pesticides

Client: Alpha Geoscience
Project Name: HUNTINGTON READY MIX

Lab Number: L2370783
Project Number: 20116
Matrix: Water

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
MW-1S (L2370783-01)	80	75	68	65			0
MW-2S (L2370783-02)	74	70	70	69			0
MW-3S (L2370783-03)	80	76	79	80			0
MW-4D (L2370783-04)	79	86	79	76			0
MW-5S (L2370783-05)	86	82	90	89			0
MW-6D (L2370783-06)	82	89	75	84			0
MW-7S (L2370783-07)	81	87	76	80			0
MW-8S (L2370783-08)	74	78	71	65			0
DUP (L2370783-09)	90	95	98	83			0
EB (L2370783-11)	85	92	67	59			0
WG1859016-1BLANK	78	78	58	66			0
WG1859016-2LCS	83	82	69	64			0
WG1859016-3LCSD	86	86	55	78			0
MW-4DMS	96	104	95	98			0
MW-4DMSD	82	88	82	82			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

Laboratory Control Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix (Level)	: WATER (LOW)		
LCS Sample ID	: WG1859016-2 **Analysis Date** : 12/03/23 13:23	**File ID**	: 18231203a-25
LCSD Sample ID	: WG1859016-3 **Analysis Date** : 12/03/23 13:34	**File ID**	: 18231203a-26

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	0.357	0.290	81	0.357	0.300	84	3	30-150	20
Lindane	0.357	0.302	85	0.357	0.314	88	4	30-150	20
Alpha-BHC	0.357	0.307	86	0.357	0.322	90	5	30-150	20
Beta-BHC	0.357	0.316	89	0.357	0.353	99	11	30-150	20
Heptachlor	0.357	0.292	82	0.357	0.307	86	5	30-150	20
Aldrin	0.357	0.275	77	0.357	0.289	81	5	30-150	20
Heptachlor epoxide	0.357	0.279	78	0.357	0.297	83	6	30-150	20
Endrin	0.357	0.276	77	0.357	0.293	82	6	30-150	20
Endrin aldehyde	0.357	0.220	62	0.357	0.251	70	13	30-150	20
Endrin ketone	0.357	0.342	96	0.357	0.368	103	7	30-150	20
Dieldrin	0.357	0.299	84	0.357	0.318	89	6	30-150	20
4,4'-DDE	0.357	0.266	75	0.357	0.281	79	5	30-150	20
4,4'-DDD	0.357	0.294	82	0.357	0.315	88	7	30-150	20
4,4'-DDT	0.357	0.315	88	0.357	0.337	94	7	30-150	20
Endosulfan I	0.357	0.265	74	0.357	0.285	80	7	30-150	20
Endosulfan II	0.357	0.280	78	0.357	0.298	83	6	30-150	20
Endosulfan sulfate	0.357	0.277	78	0.357	0.296	83	7	30-150	20
Methoxychlor	0.357	0.402	113	0.357	0.433	121	7	30-150	20
cis-Chlordane	0.357	0.245	69	0.357	0.262	73	7	30-150	20
trans-Chlordane	0.357	0.274	77	0.357	0.294	82	7	30-150	20

Matrix Spike Sample Summary
Form 3
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix (Level)**	: WATER (LOW)
Lab Sample ID	: L2370783-04	**Analysis Date**	: 12/04/23 15:56
Matrix Spike	: WG1859016-4	**MS Analysis Date**	: 12/04/23 16:07
Matrix Spike Dup	: WG1859016-5	**MSD Analysis Date**	: 12/04/23 16:18

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/l)	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	ND	0.357	0.364	102	0.357	0.302	85	19	30-150	30
Lindane	ND	0.357	0.365	102	0.357	0.308	86	17	30-150	30
Alpha-BHC	ND	0.357	0.367	103	0.357	0.315	88	15	30-150	30
Beta-BHC	ND	0.357	0.368	103	0.357	0.365	102	1	30-150	30
Heptachlor	ND	0.357	0.373	104	0.357	0.317	89	16	30-150	30
Aldrin	ND	0.357	0.368	103	0.357	0.326	91	12	30-150	30
Heptachlor epoxide	ND	0.357	0.374	105	0.357	0.320	90	16	30-150	30
Endrin	ND	0.357	0.386	108	0.357	0.323	90	18	30-150	30
Endrin aldehyde	ND	0.357	0.329	92	0.357	0.296	83	11	30-150	30
Endrin ketone	ND	0.357	0.398	111	0.357	0.334	94	17	30-150	30
Dieldrin	ND	0.357	0.413	116	0.357	0.351	98	16	30-150	30
4,4'-DDE	ND	0.357	0.381	107	0.357	0.334	94	13	30-150	30
4,4'-DDD	ND	0.357	0.422	118	0.357	0.351	98	18	30-150	30
4,4'-DDT	ND	0.357	0.393	110	0.357	0.322	90	20	30-150	30
Endosulfan I	ND	0.357	0.367	103	0.357	0.317	89	15	30-150	30
Endosulfan II	ND	0.357	0.389	109	0.357	0.321	90	19	30-150	30
Endosulfan sulfate	ND	0.357	0.384	108	0.357	0.314	88	20	30-150	30
Methoxychlor	ND	0.357	0.381	107	0.357	0.316	88	19	30-150	30
cis-Chlordane	ND	0.357	0.331	93	0.357	0.307	86	8	30-150	30
trans-Chlordane	ND	0.357	0.417	117	0.357	0.362	101	14	30-150	30

Method Blank Summary
Form 4
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: WG1859016-1	**Lab File ID**	: 18231203a-24
Matrix	: WATER	**Extraction Date**	: 12/02/23
Analysis Date (1)	: 12/03/23 13:11	**Analysis Date (2)**	: 12/03/23 13:11
Instrument ID (1)	: PEST18	**Instrument ID (2)**	: PEST18

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1859016-2LCS	WG1859016-2	12/03/23 13:23	12/03/23 13:23
WG1859016-3LCSD	WG1859016-3	12/03/23 13:34	12/03/23 13:34
MW-4D	L2370783-04	12/04/23 15:56	12/04/23 15:56
MW-4DMS	WG1859016-4	12/04/23 16:07	12/04/23 16:07
MW-4DMSD	WG1859016-5	12/04/23 16:18	12/04/23 16:18
MW-6D	L2370783-06	12/04/23 16:29	12/04/23 16:29
MW-7S	L2370783-07	12/04/23 16:40	12/04/23 16:40
MW-8S	L2370783-08	12/04/23 16:51	12/04/23 16:51
DUP	L2370783-09	12/04/23 17:02	12/04/23 17:02
EB	L2370783-11	12/04/23 17:13	12/04/23 17:13
MW-1S	L2370783-01	12/04/23 17:25	12/04/23 17:25
MW-2S	L2370783-02	12/04/23 17:36	12/04/23 17:36
MW-3S	L2370783-03	12/04/23 17:47	12/04/23 17:47
MW-5S	L2370783-05	12/04/23 17:59	12/04/23 17:59

Analytical Sequence
Form 8b
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST18	**Initial Calib. Date(s)**	: 10/17/23 10/17/23

Client ID	Lab ID	Date/Time Analyzed
R1754644-1 PEM	R1754644-1	10/17/23 12:03
Pesticides L1 (0.5ug/L)	R1754644-2	10/17/23 12:14
Pesticides L2 (1.0ug/L)	R1754644-3	10/17/23 12:25
Pesticides L3 (2.0ug/L)	R1754644-4	10/17/23 12:37
Pesticides L4 (3.0ug/L)	R1754644-5	10/17/23 12:48
Pesticides L5 (4.0ug/L)	R1754644-6	10/17/23 13:00
Pesticides L7 (10.0ug/L)	R1754644-7	10/17/23 13:11
Pesticides L8 (50.0ug/L)	R1754644-8	10/17/23 13:22
Pesticides L9 (100ug/L)	R1754644-9	10/17/23 13:34
Pesticides L10 (200ug/L)	R1754644-10	10/17/23 13:45
Pesticides L11 (400ug/L)	R1754644-11	10/17/23 13:57
R1754644-12 ICV	R1754644-12	10/17/23 14:08
Chlordane L3 (10ug/L)	R1754644-13	10/17/23 14:20
Chlordane L4 (20ug/L)	R1754644-14	10/17/23 14:31
Chlordane L5 (100ug/L)	R1754644-15	10/17/23 14:42
Chlordane L7 (500ug/L)	R1754644-16	10/17/23 14:54
Chlordane L8 (1000ug/L)	R1754644-17	10/17/23 15:05
Chlordane L9 (2000ug/L)	R1754644-18	10/17/23 15:17
Chlordane L10 (5000ug/L)	R1754644-20	10/17/23 15:28
R1754644-19 ICV	R1754644-19	10/17/23 15:39
Toxaphene L3 (20.0ug/L)	R1754644-21	10/17/23 15:51
Toxaphene L8 (2000ug/L)	R1754644-22	10/17/23 16:02
Toxaphene L9 (5000ug/L)	R1754644-23	10/17/23 16:14
R1754644-24 ICV	R1754644-24	10/17/23 16:25
R1770636-1 PEM	R1770636-1	12/03/23 08:50
WG1859122-1 CCAL	WG1859122-1	12/03/23 09:01
WG1859122-2 CCAL	WG1859122-2	12/03/23 09:13
WG1859122-3 CCAL	WG1859122-3	12/03/23 09:24
WG1859016-1 BLANK	WG1859016-1	12/03/23 13:11
WG1859016-2 LCS	WG1859016-2	12/03/23 13:23
WG1859016-3 LCSD	WG1859016-3	12/03/23 13:34
R1771178-1 PEM	R1771178-1	12/04/23 12:28
WG1859540-1 CCAL	WG1859540-1	12/04/23 12:39
WG1859540-2 CCAL	WG1859540-2	12/04/23 12:51
WG1859540-3 CCAL	WG1859540-3	12/04/23 13:02
MW-1S	L2370783-01	12/04/23 17:25
MW-2S	L2370783-02	12/04/23 17:36
MW-3S	L2370783-03	12/04/23 17:47
MW-5S	L2370783-05	12/04/23 17:59

Analytical Sequence
Form 8b
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST10	**Initial Calib. Date(s)**	: 11/13/23 11/13/23

Client ID	Lab ID	Date/Time Analyzed
R1770697-1 PEM	R1770697-1	11/13/23 16:34
Pesticides L1 (0.5ug/L)	R1770697-2	11/13/23 16:45
Pesticides L2 (1.0ug/L)	R1770697-3	11/13/23 16:56
Pesticides L3 (2.0ug/L)	R1770697-5	11/13/23 17:07
Pesticides L4 (3.0ug/L)	R1770697-4	11/13/23 17:18
Pesticides L5 (4.0ug/L)	R1770697-6	11/13/23 17:29
Pesticides L7 (10.0ug/L)	R1770697-7	11/13/23 17:40
Pesticides L8 (50.0ug/L)	R1770697-8	11/13/23 17:51
Pesticides L9 (100ug/L)	R1770697-9	11/13/23 18:02
Pesticides L10 (200ug/L)	R1770697-10	11/13/23 18:13
Pesticides L11 (400ug/L)	R1770697-11	11/13/23 18:24
R1770697-12 ICV	R1770697-12	11/13/23 18:35
Chlordane L3 (10ug/L)	R1770697-13	11/13/23 18:46
Chlordane L4 (20ug/L)	R1770697-16	11/13/23 18:57
Chlordane L5 (100ug/L)	R1770697-14	11/13/23 19:08
Chlordane L7 (500ug/L)	R1770697-15	11/13/23 19:19
Chlordane L8 (1000ug/L)	R1770697-24	11/13/23 19:30
Chlordane L9 (2000ug/L)	R1770697-23	11/13/23 19:41
Chlordane L10 (5000ug/L)	R1770697-17	11/13/23 19:52
R1770697-18 ICV	R1770697-18	11/13/23 20:03
Toxaphene L3 (20.0ug/L)	R1770697-19	11/13/23 20:14
Toxaphene L8 (2000ug/L)	R1770697-21	11/13/23 20:25
Toxaphene L9 (5000ug/L)	R1770697-20	11/13/23 20:36
R1770697-22 ICV	R1770697-22	11/13/23 20:47
R1770745-1 PEM	R1770745-1	12/04/23 09:48
WG1859447-2 CCAL	WG1859447-2	12/04/23 10:10
WG1859447-3 CCAL	WG1859447-3	12/04/23 10:21
WG1859447-4 CCAL	WG1859447-4	12/04/23 15:24
MW-4D	L2370783-04	12/04/23 15:56
MW-4D MS	WG1859016-4	12/04/23 16:07
MW-4D MSD	WG1859016-5	12/04/23 16:18
MW-6D	L2370783-06	12/04/23 16:29
MW-7S	L2370783-07	12/04/23 16:40
MW-8S	L2370783-08	12/04/23 16:51
DUP	L2370783-09	12/04/23 17:02
EB	L2370783-11	12/04/23 17:13

Date Created: 03/07/23
Created By: Jason Hebert
File: PM14022-1
Page: 1

Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	3.0015	1.28731	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	13.34	5.30265	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

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Page: 1

Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	40-140	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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

Pesticide Sample Data

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-01	Date Collected	: 11/29/23 12:40
Client ID	: MW-1S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/04/23 17:25
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18231204b-23	Analyst	: PEG
Sample Amount	: 140 ml	Instrument ID	: PEST18
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 17:25
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18231204b-23	**Analyst**	: PEG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-02	Date Collected	: 11/29/23 11:10
Client ID	: MW-2S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/04/23 17:36
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18231204b-24	Analyst	: PEG
Sample Amount	: 140 ml	Instrument ID	: PEST18
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 17:36
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18231204b-24	**Analyst**	: PEG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 17:47
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18231204b-25	**Analyst**	: PEG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 17:47
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18231204b-25	**Analyst**	: PEG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-04	Date Collected	: 11/29/23 14:00
Client ID	: MW-4D	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/04/23 15:56
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 10231204a-29	Analyst	: MMG
Sample Amount	: 140 ml	Instrument ID	: PEST10
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 15:56
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10231204a-29	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-05	Date Collected	: 11/29/23 15:30
Client ID	: MW-5S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/04/23 17:59
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18231204b-26	Analyst	: PEG
Sample Amount	: 140 ml	Instrument ID	: PEST18
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 17:59
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18231204b-26	**Analyst**	: PEG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-06	Date Collected	: 11/29/23 10:08
Client ID	: MW-6D	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/04/23 16:29
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 10231204a-32	Analyst	: MMG
Sample Amount	: 140 ml	Instrument ID	: PEST10
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 16:29
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10231204a-32	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 16:40
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10231204a-33	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 16:40
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10231204a-33	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-08	Date Collected	: 11/29/23 16:40
Client ID	: MW-8S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/04/23 16:51
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 10231204a-34	Analyst	: MMG
Sample Amount	: 140 ml	Instrument ID	: PEST10
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 16:51
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10231204a-34	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-09	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 17:02
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10231204a-35	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-09	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 17:02
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10231204a-35	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-11	Date Collected	: 11/29/23 08:45
Client ID	: EB	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/04/23 17:13
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 10231204a-36	Analyst	: MMG
Sample Amount	: 140 ml	Instrument ID	: PEST10
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-11	**Date Collected**	: 11/29/23 08:45
Client ID	: EB	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 17:13
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 10231204a-36	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST10
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: WG1859016-1	Date Collected	: NA
Client ID	: WG1859016-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/03/23 13:11
Sample Matrix	: WATER	Date Extracted	: 12/02/23
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18231203a-24	Analyst	: MMG
Sample Amount	: 140 ml	Instrument ID	: PEST18
Extraction Method	: EPA 3510C	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	0.014	0.003	U
58-89-9	Lindane	ND	0.014	0.003	U
319-84-6	Alpha-BHC	ND	0.014	0.003	U
319-85-7	Beta-BHC	ND	0.014	0.004	U
76-44-8	Heptachlor	ND	0.014	0.002	U
309-00-2	Aldrin	ND	0.014	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.014	0.003	U
72-20-8	Endrin	ND	0.029	0.003	U
7421-93-4	Endrin aldehyde	ND	0.029	0.006	U
53494-70-5	Endrin ketone	ND	0.029	0.003	U
60-57-1	Dieldrin	ND	0.029	0.003	U
72-55-9	4,4'-DDE	ND	0.029	0.003	U
72-54-8	4,4'-DDD	ND	0.029	0.003	U
50-29-3	4,4'-DDT	ND	0.029	0.003	U
959-98-8	Endosulfan I	ND	0.014	0.002	U
33213-65-9	Endosulfan II	ND	0.029	0.004	U
1031-07-8	Endosulfan sulfate	ND	0.029	0.003	U
72-43-5	Methoxychlor	ND	0.143	0.005	U
8001-35-2	Toxaphene	ND	0.143	0.045	U
5103-71-9	cis-Chlordane	ND	0.014	0.005	U
5103-74-2	trans-Chlordane	ND	0.014	0.004	U

Results Summary
Form 1
Organochlorine Pesticides by GC

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859016-1	**Date Collected**	: NA
Client ID	: WG1859016-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/03/23 13:11
Sample Matrix	: WATER	**Date Extracted**	: 12/02/23
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18231203a-24	**Analyst**	: MMG
Sample Amount	: 140 ml	**Instrument ID**	: PEST18
Extraction Method	: EPA 3510C	**GC Column**	: CLPPesticides
Extract Volume	: 1000 uL	**%Solids**	: N/A
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-74-9	Chlordane	ND	0.143	0.033	U

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 3:56 pm
Operator : PEST10:mmg
Sample : L2370783-04,42,, ns
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:34:51 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.313	1.406	212.4E6	88136726	25.000	25.000
	Standard Area 1 : #1 = 199312348				Recovery = 106.57%		
	Standard Area 1 : #2 = 87020004				Recovery = 101.28%		
28) i	1-br-2-nb_Ch	1.313	1.406	212.4E6	88136726	25.000	25.000
33) i	1-br-2-nb_To	1.313	1.406	212.4E6	88136726	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.658	1.895	352.7E6	157.1E6	39.739	42.790
	Spiked Amount	50.000	Range 30 - 150		Recovery =	79.48%	85.58%
27) s	Decachlorobi	6.307	6.977	330.7E6	140.6E6	39.550M4	38.100
	Spiked Amount	50.000	Range 30 - 150		Recovery =	79.10%	76.20%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 3:56 pm
Operator : PEST10:mmg
Sample : L2370783-04,42,, ns
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:34:51 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1 chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1 chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1 chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1 chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
34) l2 toxaphene-1	0.000	0.000	0	0	N.D.	N.D.
35) l2 toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2 toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2 toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

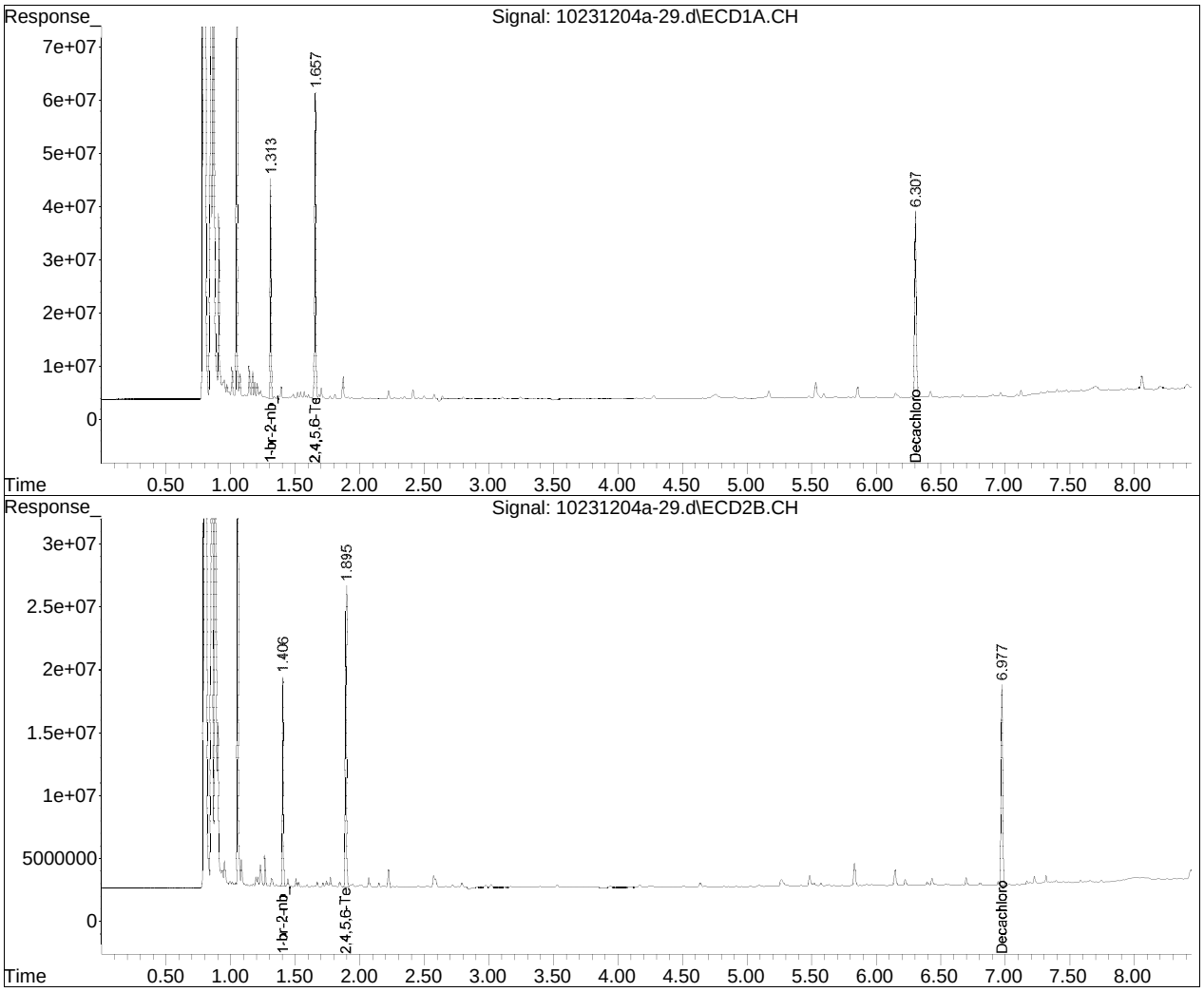
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10231204a-27.d••

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 3:56 pm
Operator : PEST10:mmg
Sample : L2370783-04,42,, ns
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:34:51 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

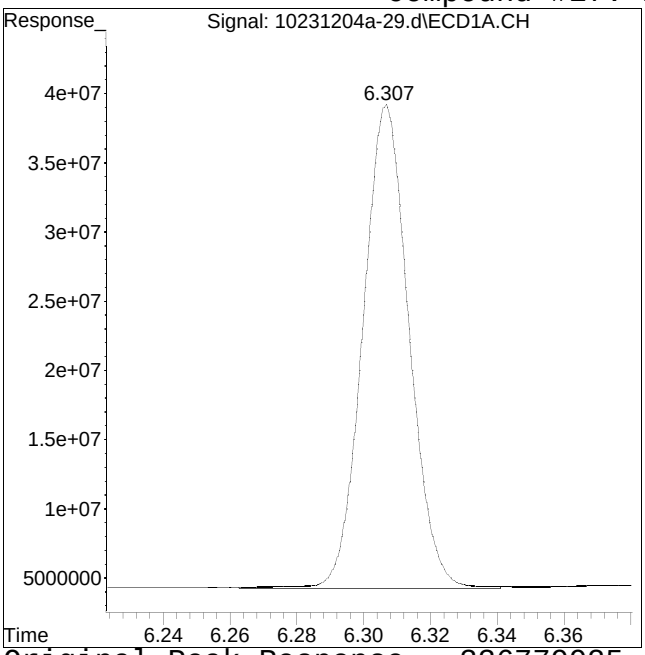
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



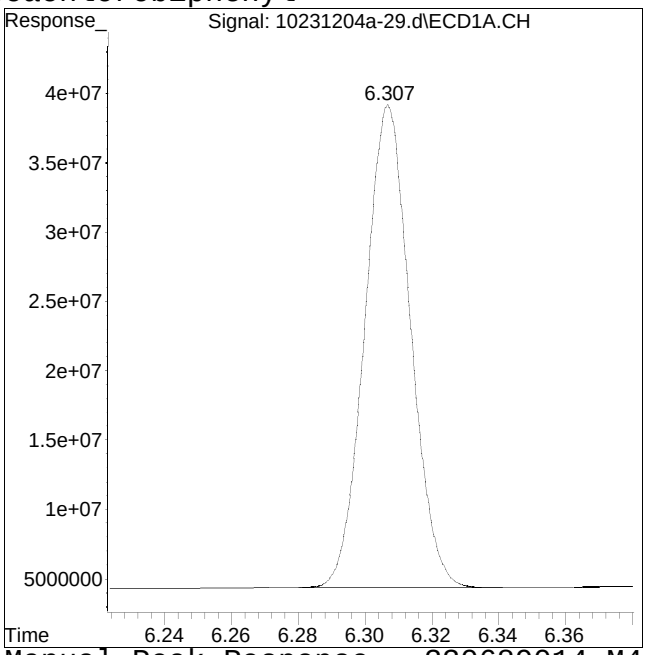
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-29.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 3:56 pm Instrument : Pest 10
Sample : L2370783-04,42,, ns Quant Date : 12/4/2023 5:31 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 336779925



Manual Peak Response = 330689014 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-32.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:29 pm
Operator : PEST10:mmg
Sample : L2370783-06,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:43:35 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.312	1.406	211.3E6	89380802	25.000	25.000M4
	Standard Area 1 : #1 = 199312348				Recovery = 106.00%		
	Standard Area 1 : #2 = 87020004				Recovery = 102.71%		
28) i	1-br-2-nb_Ch	1.312	1.406	211.3E6	89380802	25.000	25.000M4
33) i	1-br-2-nb_To	1.312	1.406	211.3E6	89380802	25.000	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.656	1.895	362.5E6	166.5E6	41.059M3	44.732M4
	Spiked Amount	50.000	Range 30 - 150		Recovery = 82.12%		89.46%
27) s	Decachlorobi	6.304	6.977	311.3E6	155.9E6	37.429M4	41.775M4
	Spiked Amount	50.000	Range 30 - 150		Recovery = 74.86%		83.55%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-32.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:29 pm
Operator : PEST10:mmg
Sample : L2370783-06,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:43:35 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21) t 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1 chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1 chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1 chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1 chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
34) l2 toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2 toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2 toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2 toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

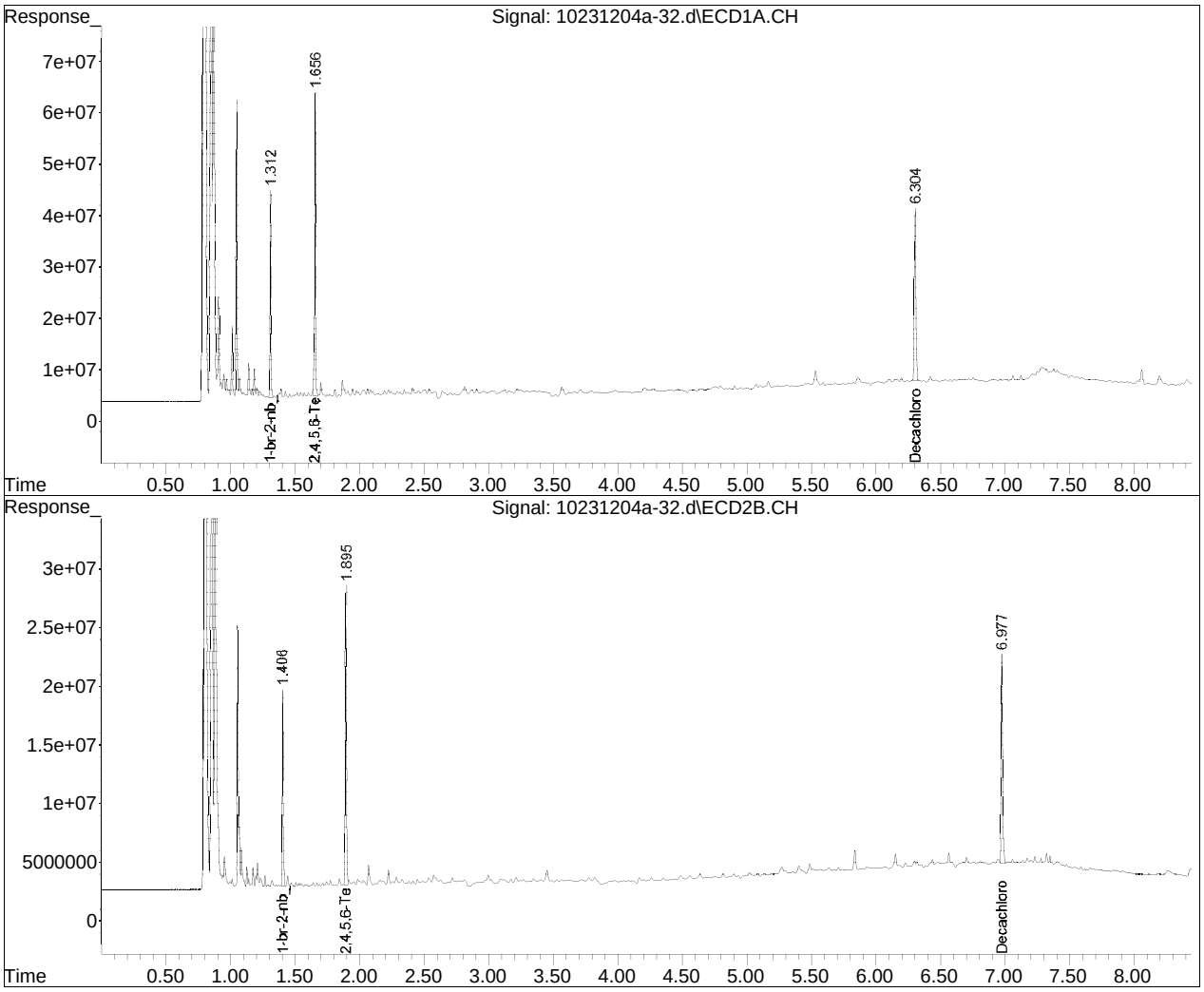
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10231204a-27.d••

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-32.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:29 pm
Operator : PEST10:mmg
Sample : L2370783-06,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:43:35 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

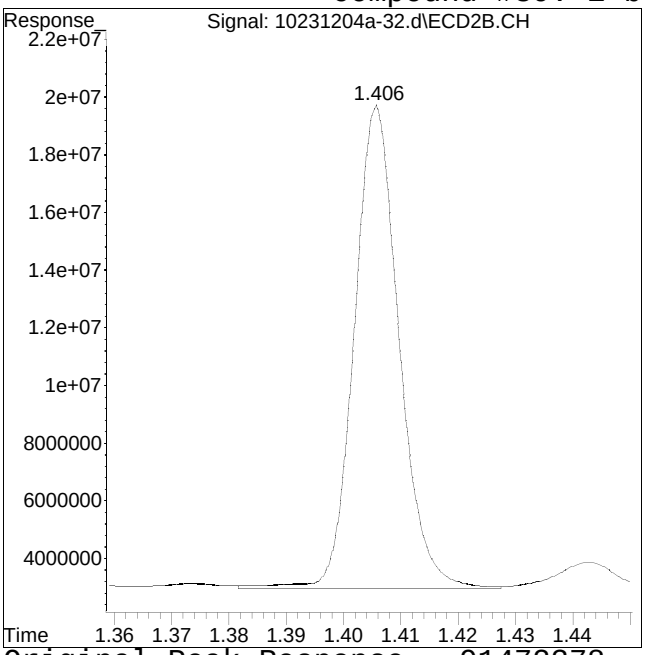
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

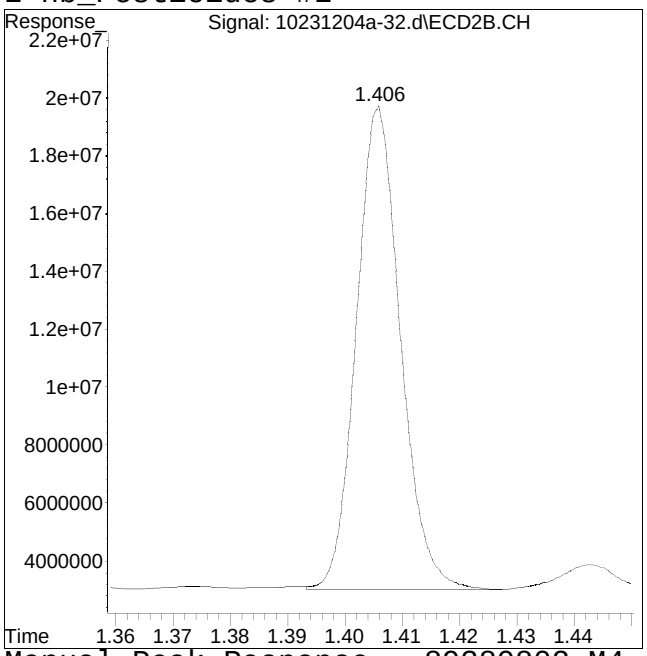


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-32.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:29 pm Instrument : Pest 10
Sample : L2370783-06,42,, Quant Date : 12/4/2023 5:31 pm

Compound #39: 1-br-2-nb_Pesticides #2



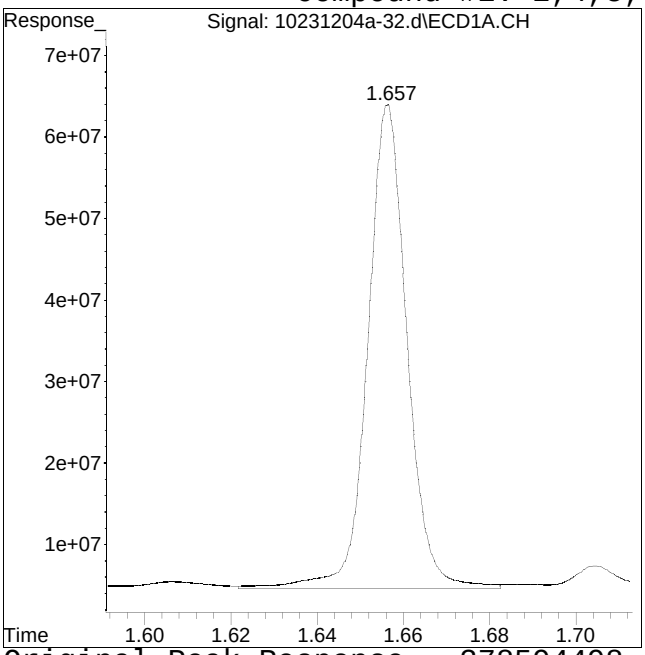


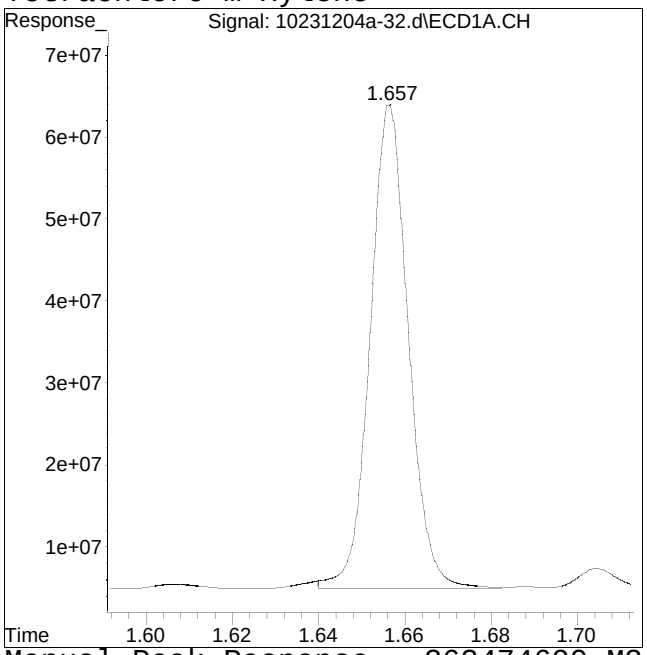
Original Peak Response = 91472378 Manual Peak Response = 89380802 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-32.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:29 pm Instrument : Pest 10
Sample : L2370783-06,42,, Quant Date : 12/4/2023 5:31 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



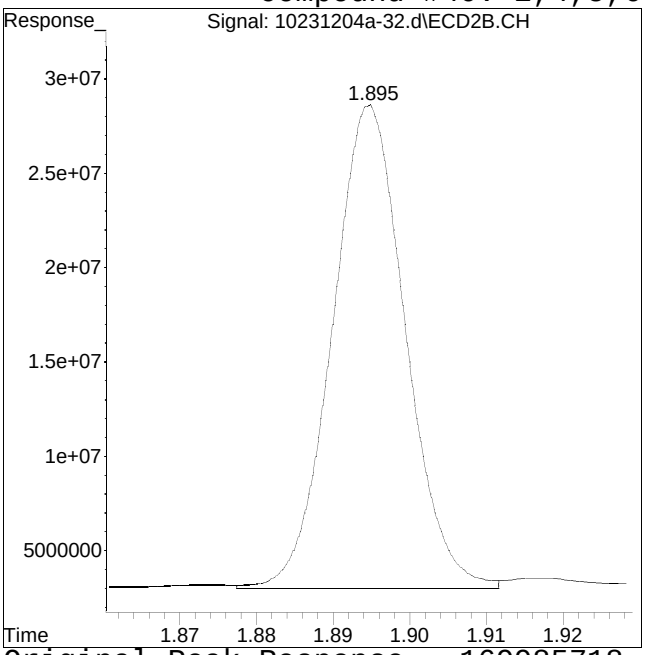


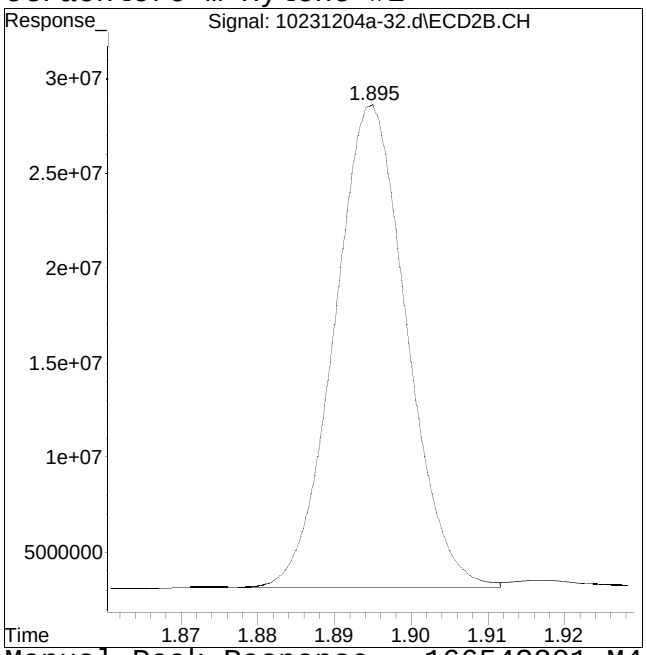
Original Peak Response = 378594498 Manual Peak Response = 362474690 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-32.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:29 pm Instrument : Pest 10
Sample : L2370783-06,42,, Quant Date : 12/4/2023 5:31 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



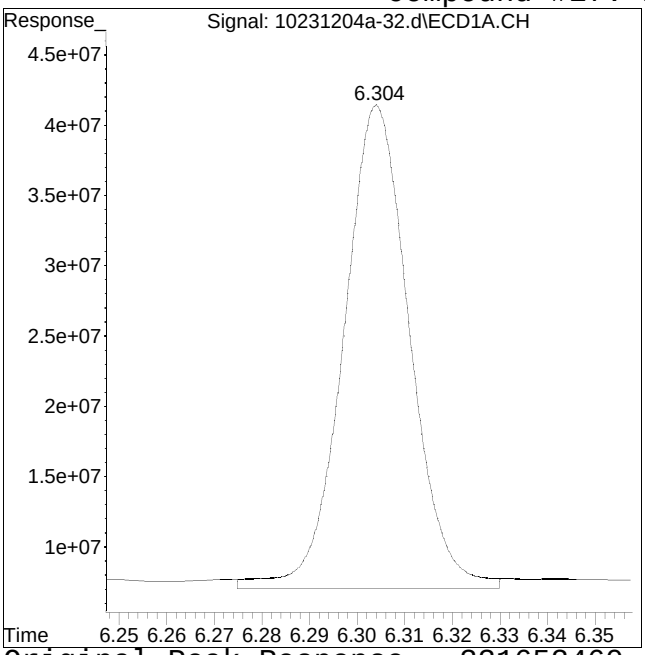


Original Peak Response = 169985718 Manual Peak Response = 166543201 M4
M4 = Poor automated baseline construction.

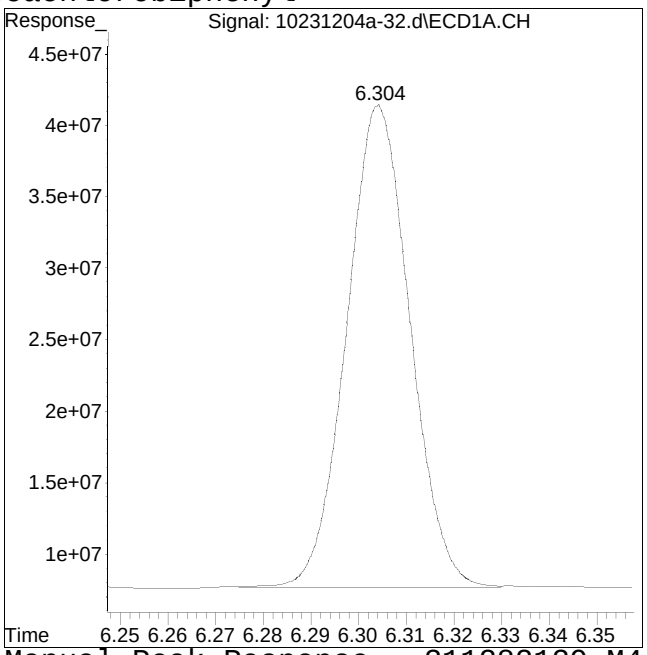
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-32.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:29 pm Instrument : Pest 10
Sample : L2370783-06,42,, Quant Date : 12/4/2023 5:31 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 331652460



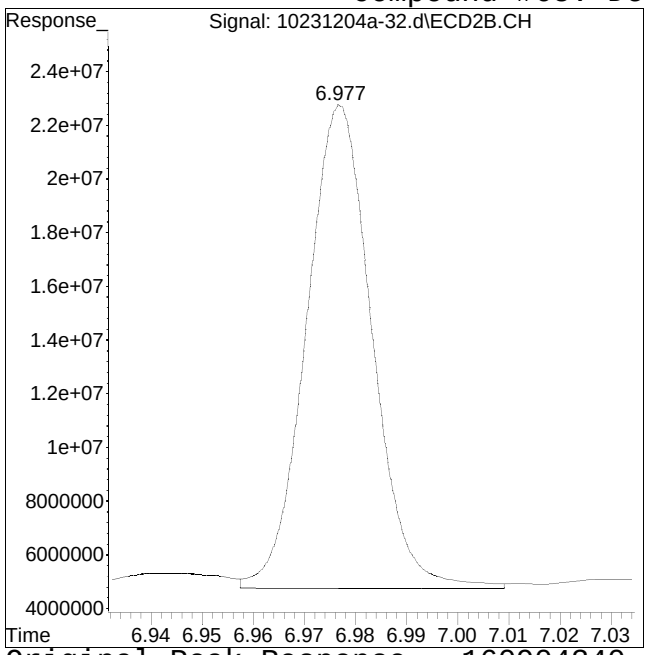
Manual Peak Response = 311282129 M4

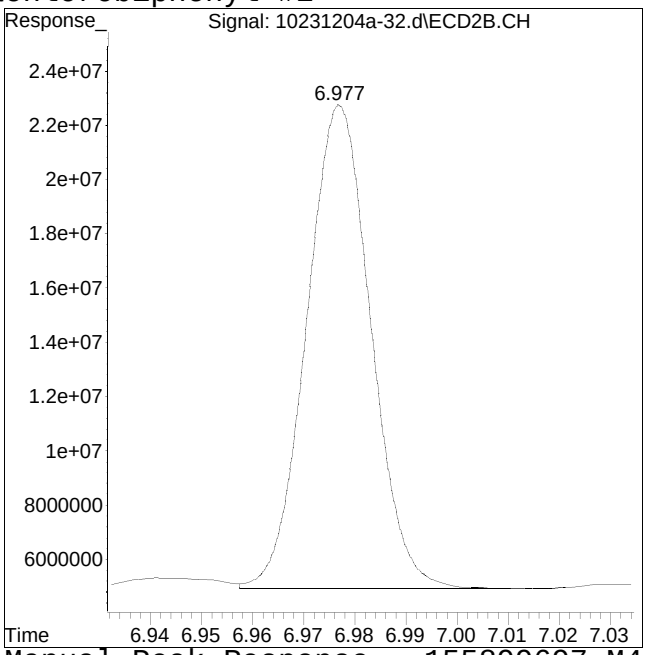
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-32.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:29 pm Instrument : Pest 10
Sample : L2370783-06,42,, Quant Date : 12/4/2023 5:31 pm

Compound #65: Decachlorobiphenyl #2



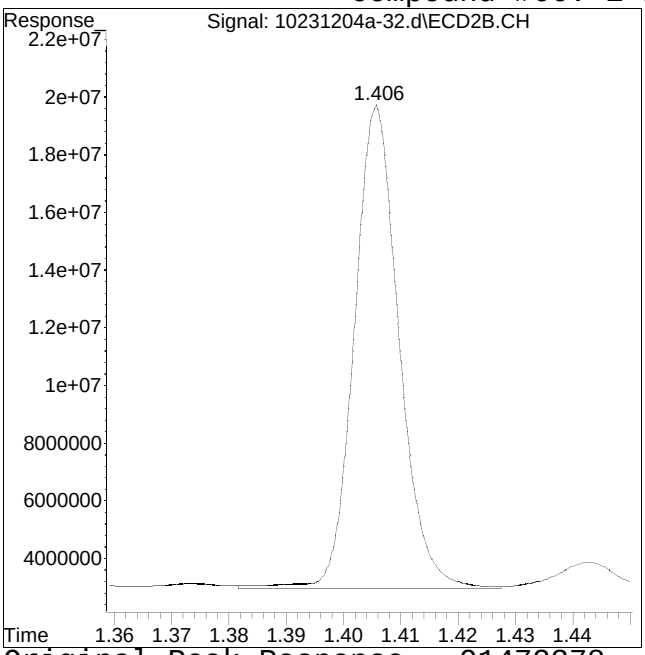


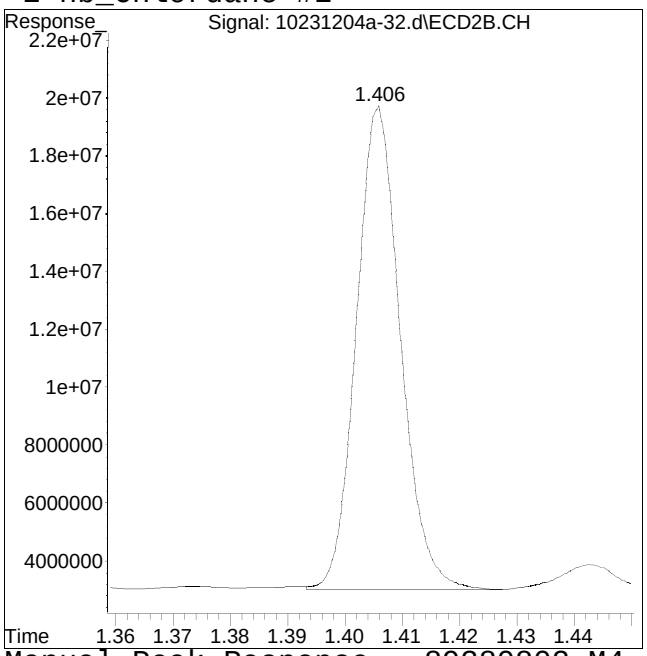
Original Peak Response = 160904340 Manual Peak Response = 155899697 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-32.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:29 pm Instrument : Pest 10
Sample : L2370783-06,42,, Quant Date : 12/4/2023 5:31 pm

Compound #66: 1-br-2-nb_Chlordane #2



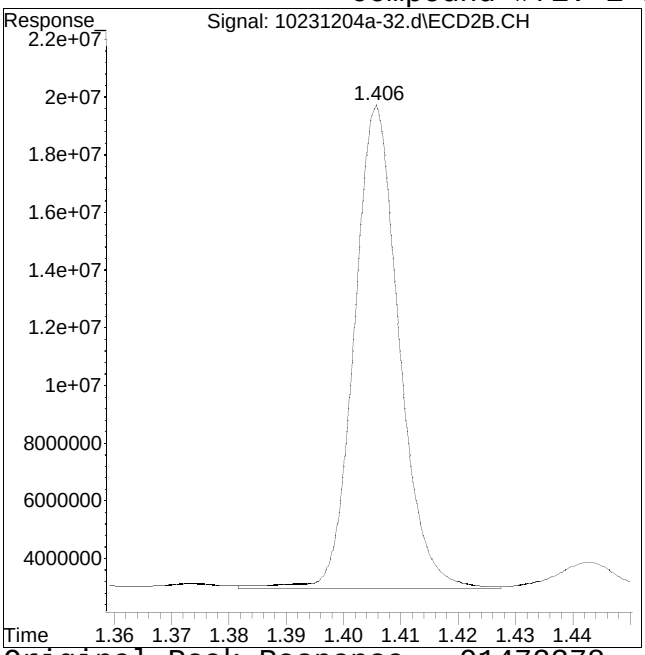


Original Peak Response = 91472378 Manual Peak Response = 89380802 M4
M4 = Poor automated baseline construction.

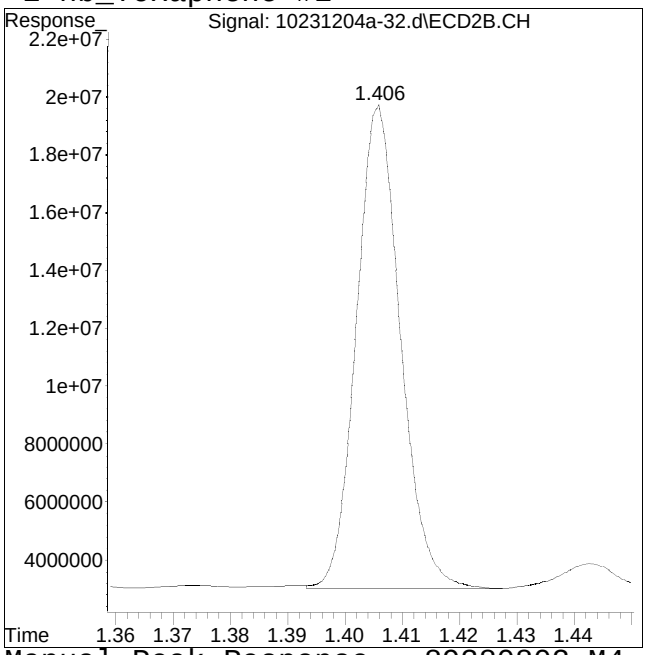
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-32.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:29 pm Instrument : Pest 10
Sample : L2370783-06,42,, Quant Date : 12/4/2023 5:31 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 91472378



Manual Peak Response = 89380802 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-33.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:40 pm
Operator : PEST10:mmg
Sample : L2370783-07,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:44:23 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.314	1.406	196.2E6	82728182	25.000	25.000
	Standard Area 1 : #1 = 199312348				Recovery =	98.46%	
	Standard Area 1 : #2 = 87020004				Recovery =	95.07%	
28) i	1-br-2-nb_Ch	1.314	1.406	196.2E6	82728182	25.000	25.000
33) i	1-br-2-nb_To	1.314	1.406	196.2E6	82728182	25.000	25.000
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.658	1.894	330.6E6	149.1E6	40.311M4	43.270M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	80.62%	86.54%
27) s	Decachlorobi	6.305	6.978	291.9E6	137.6E6	37.782M4	39.773M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	75.56%	79.55%
Target Compounds							
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-33.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:40 pm
Operator : PEST10:mmg
Sample : L2370783-07,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:44:23 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21) t 4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25) t Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1 chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1 chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1 chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1 chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
34) l2 toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2 toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2 toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2 toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

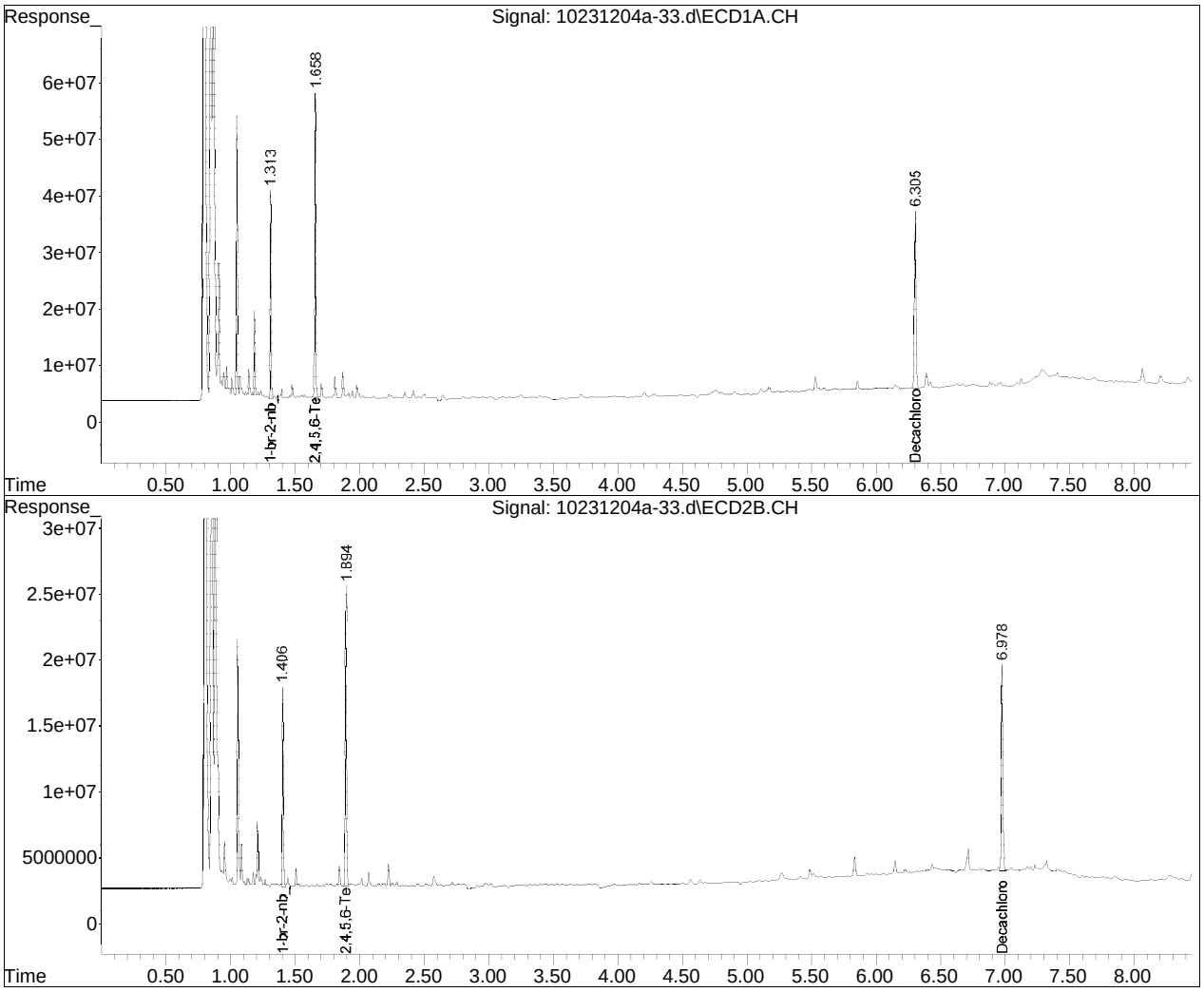
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10231204a-27.d••

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-33.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:40 pm
Operator : PEST10:mmg
Sample : L2370783-07,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:44:23 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

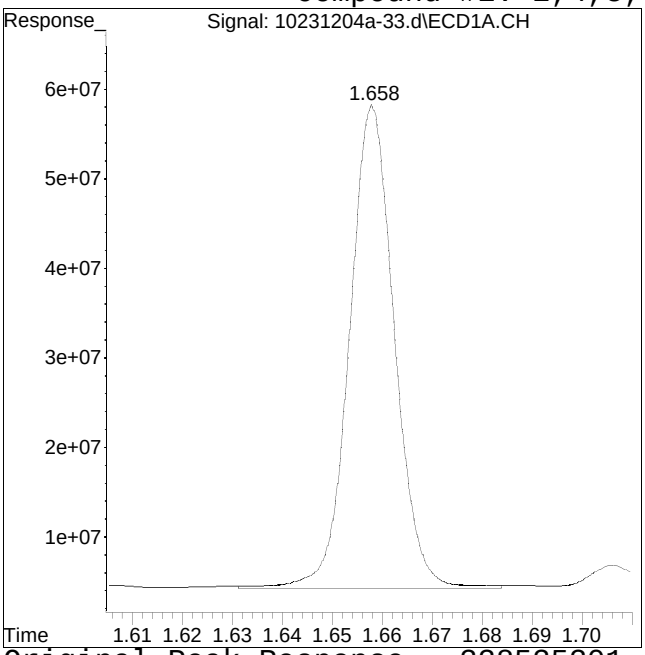
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



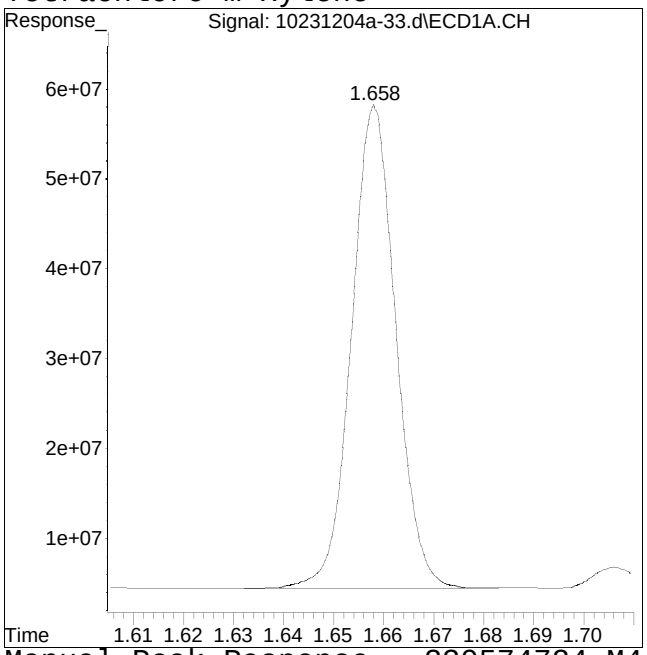
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-33.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:40 pm Instrument : Pest 10
Sample : L2370783-07,42,, Quant Date : 12/4/2023 5:31 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 338535301

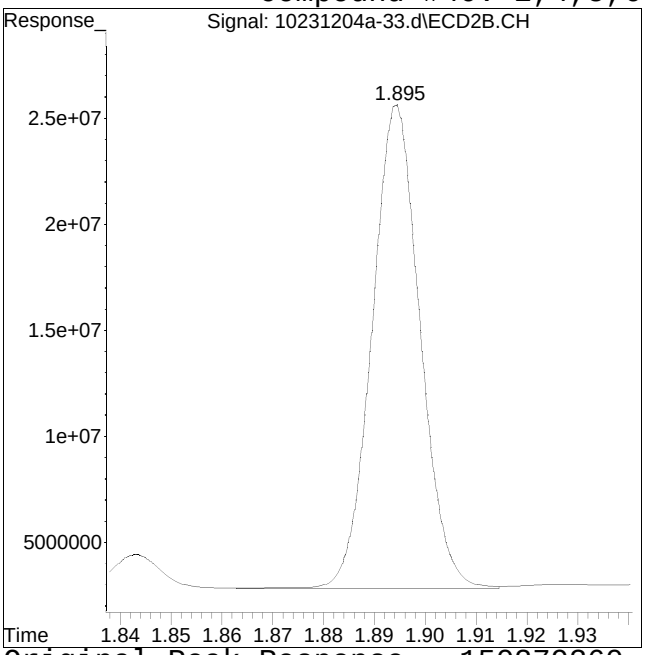


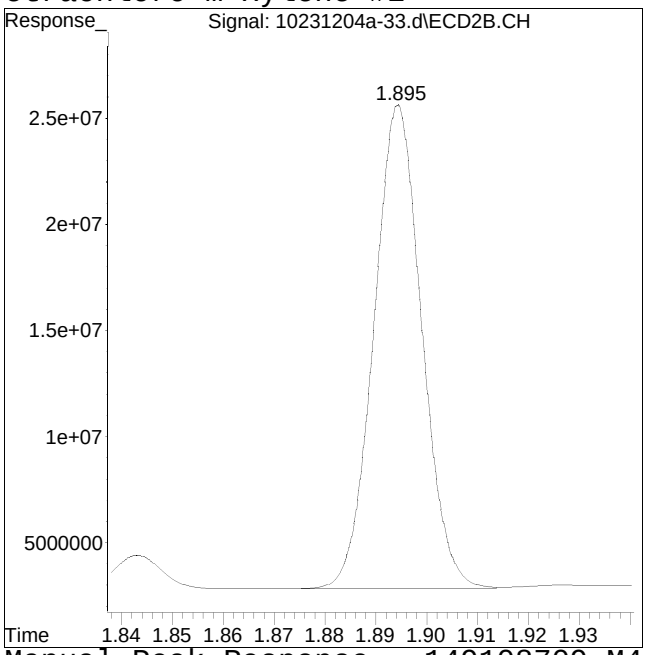
Manual Peak Response = 330574724 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-33.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:40 pm Instrument : Pest 10
Sample : L2370783-07,42,, Quant Date : 12/4/2023 5:31 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



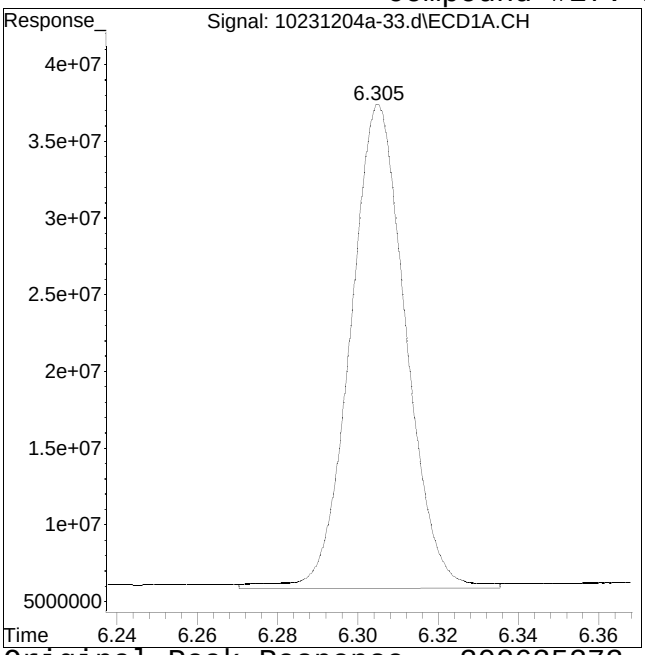


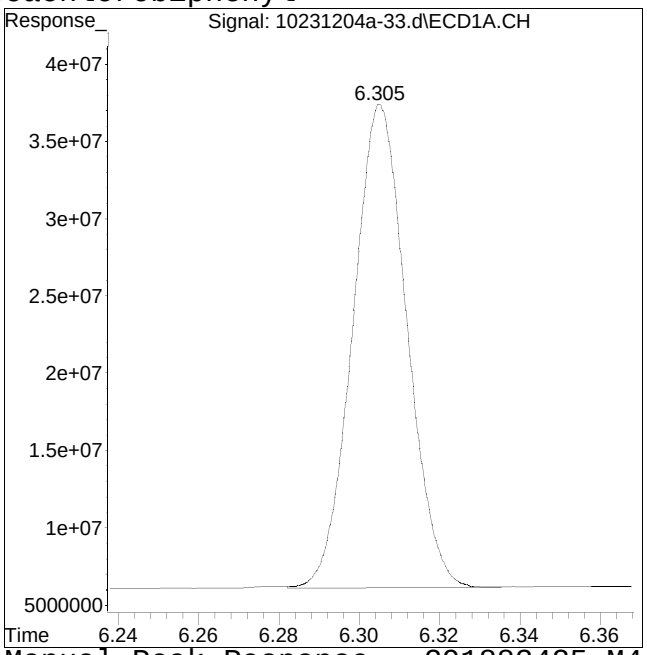
Original Peak Response = 150279360 Manual Peak Response = 149108709 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-33.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:40 pm Instrument : Pest 10
Sample : L2370783-07,42,, Quant Date : 12/4/2023 5:31 pm

Compound #27: Decachlorobiphenyl



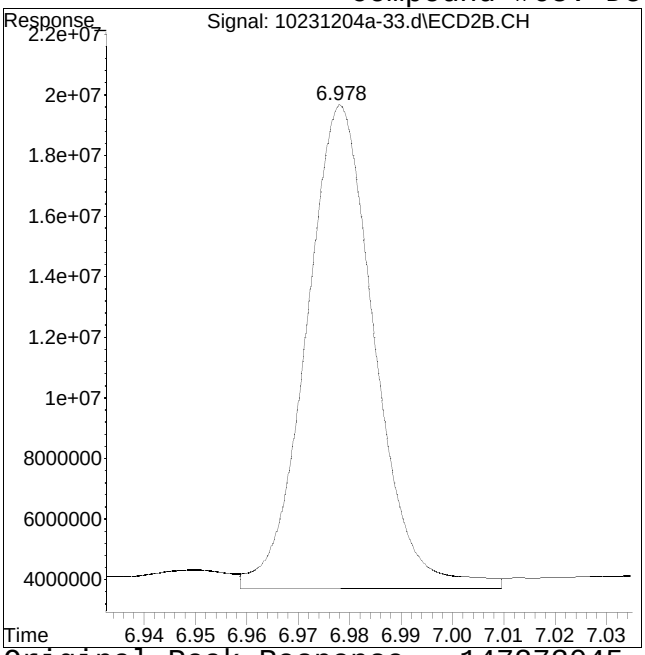


Original Peak Response = 302635373 Manual Peak Response = 291883425 M4
M4 = Poor automated baseline construction.

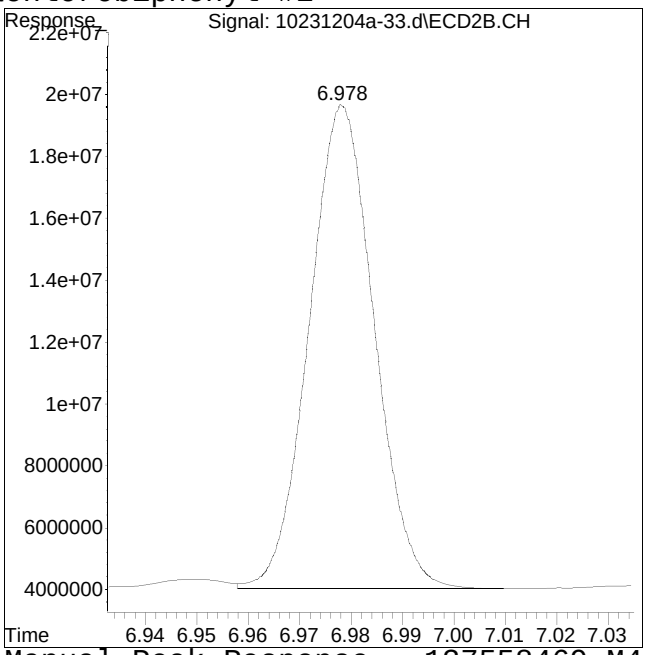
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-33.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:40 pm Instrument : Pest 10
Sample : L2370783-07,42,, Quant Date : 12/4/2023 5:31 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 147273045



Manual Peak Response = 137558469 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-34.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:51 pm
Operator : PEST10:mmg
Sample : L2370783-08,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:45:15 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.314	1.406	204.4E6	86226954	25.000	25.000
	Standard Area 1 : #1 = 199312348				Recovery =	102.54%	
	Standard Area 1 : #2 = 87020004				Recovery =	99.09%	
28) i	1-br-2-nb_Ch	1.314	1.406	204.4E6	86226954	25.000	25.000
33) i	1-br-2-nb_To	1.314	1.406	204.4E6	86226954	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.658	1.894	313.9E6	140.8E6	36.761M4	39.210M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		73.52%	78.42%
27) s	Decachlorobi	6.305	6.980	285.2E6	117.0E6	35.449M4	32.257M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		70.90%	64.51%
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-34.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:51 pm
Operator : PEST10:mmg
Sample : L2370783-08,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:45:15 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

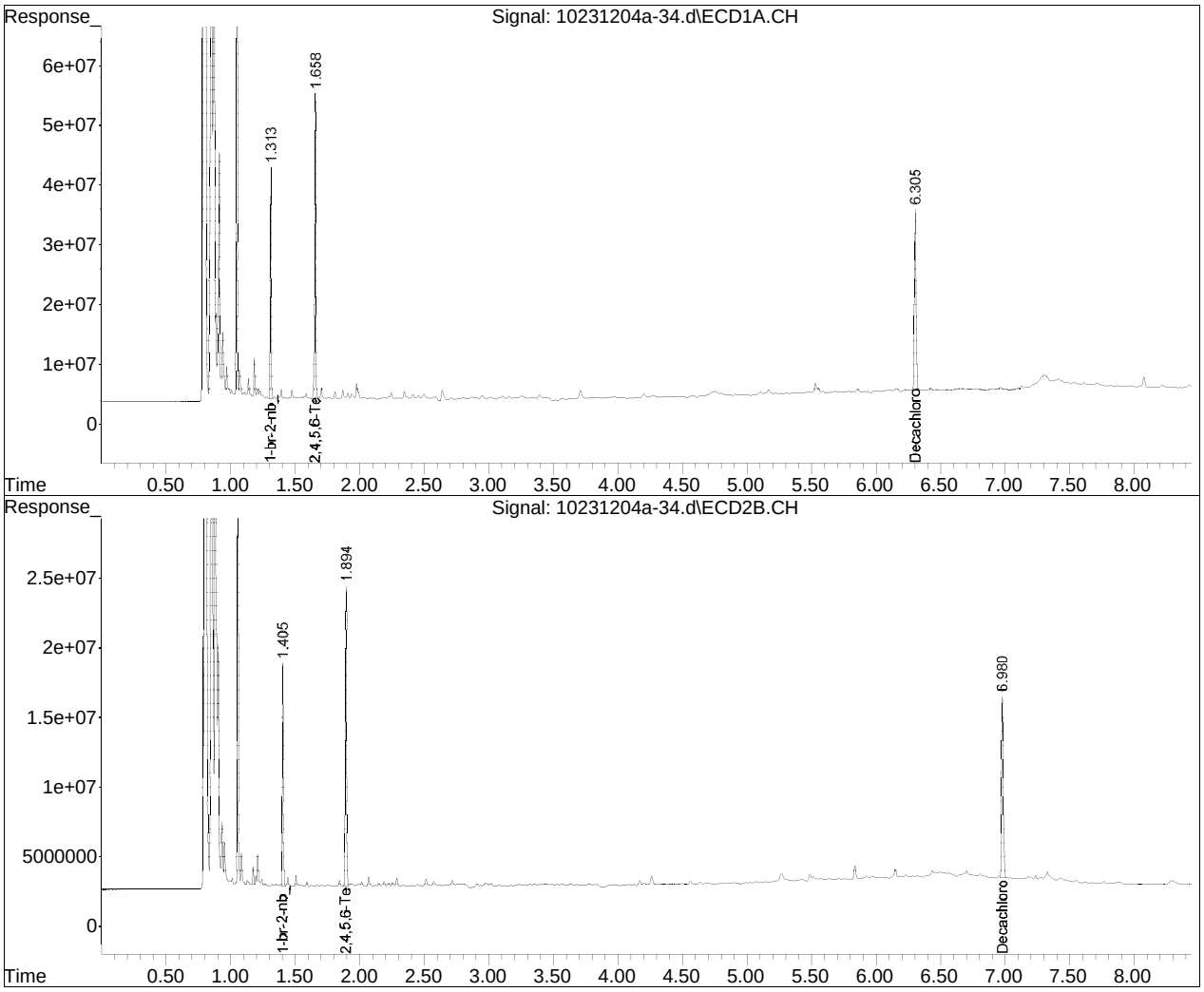
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10231204a-27.d••

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-34.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:51 pm
Operator : PEST10:mmg
Sample : L2370783-08,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:45:15 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

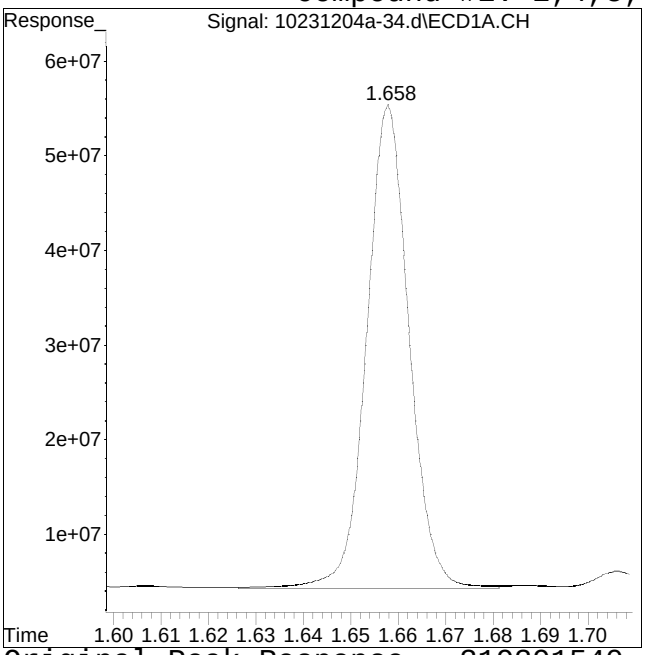
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

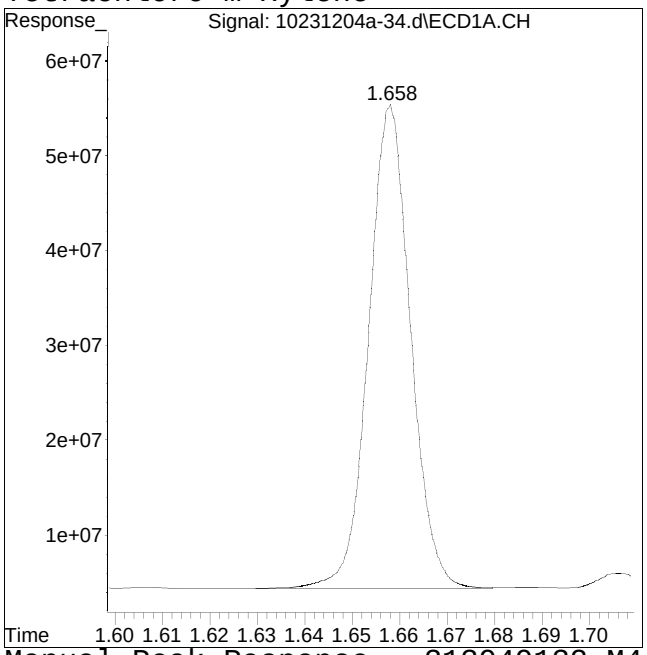


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-34.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:51 pm Instrument : Pest 10
Sample : L2370783-08,42,, Quant Date : 12/4/2023 5:31 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



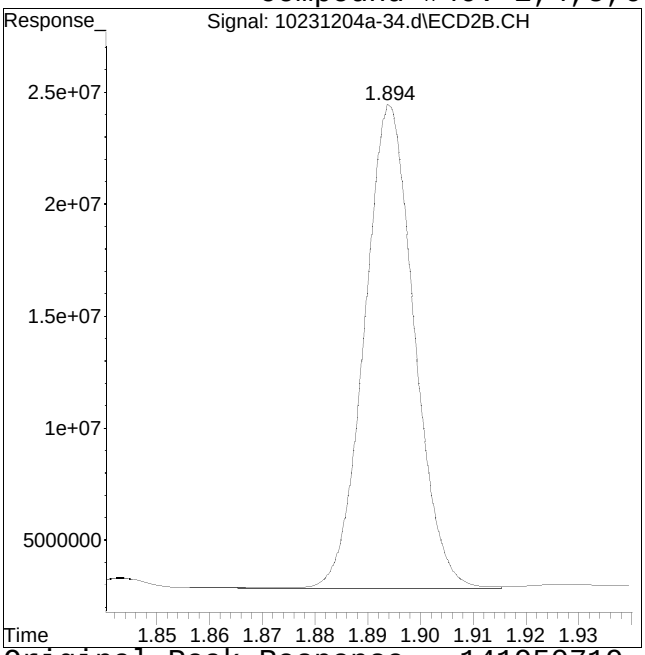


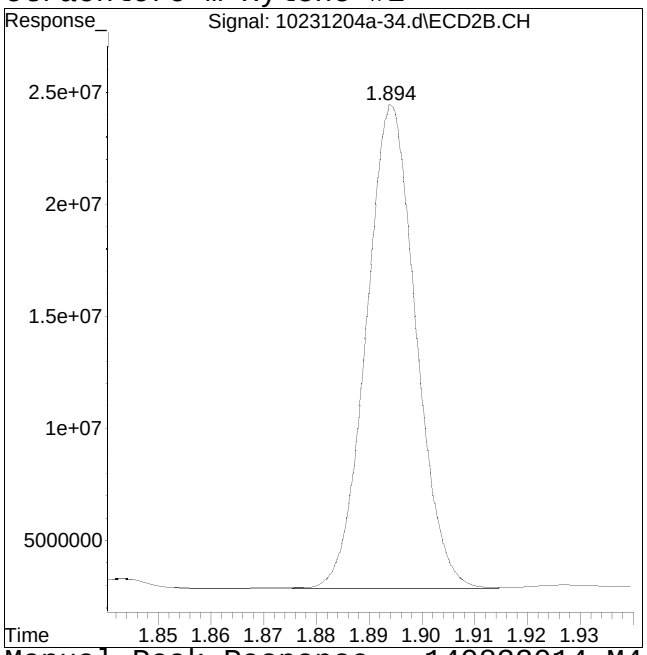
Original Peak Response = 319391540 Manual Peak Response = 313949132 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-34.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:51 pm Instrument : Pest 10
Sample : L2370783-08,42,, Quant Date : 12/4/2023 5:31 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



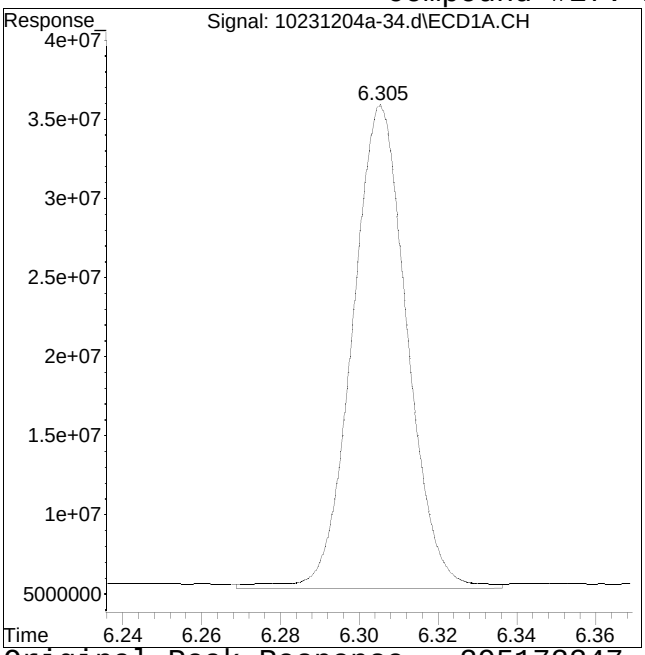


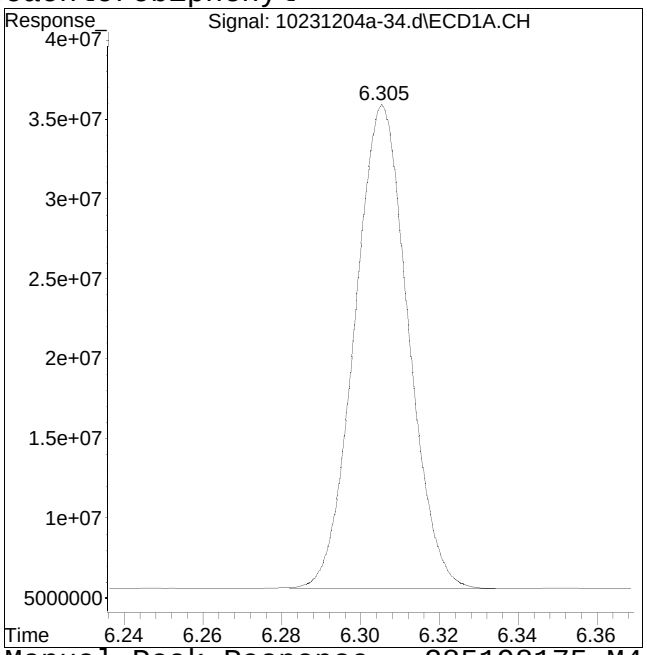
Original Peak Response = 141950719 Manual Peak Response = 140833014 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-34.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:51 pm Instrument : Pest 10
Sample : L2370783-08,42,, Quant Date : 12/4/2023 5:31 pm

Compound #27: Decachlorobiphenyl



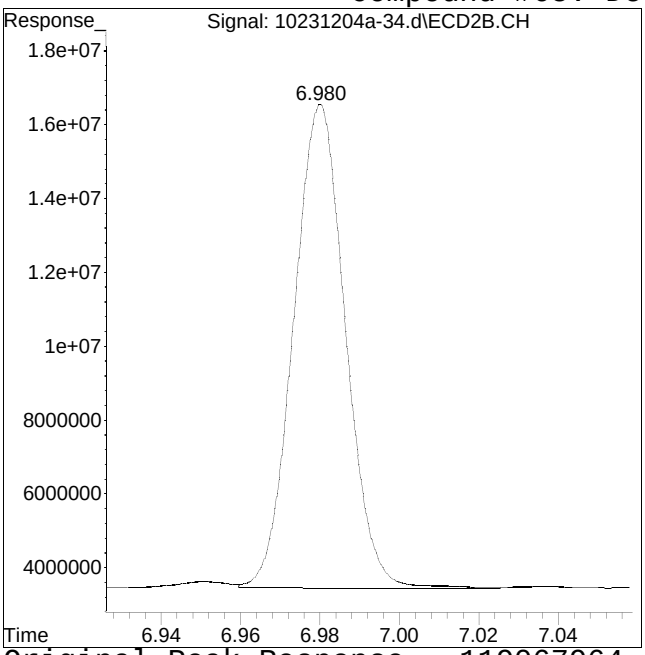


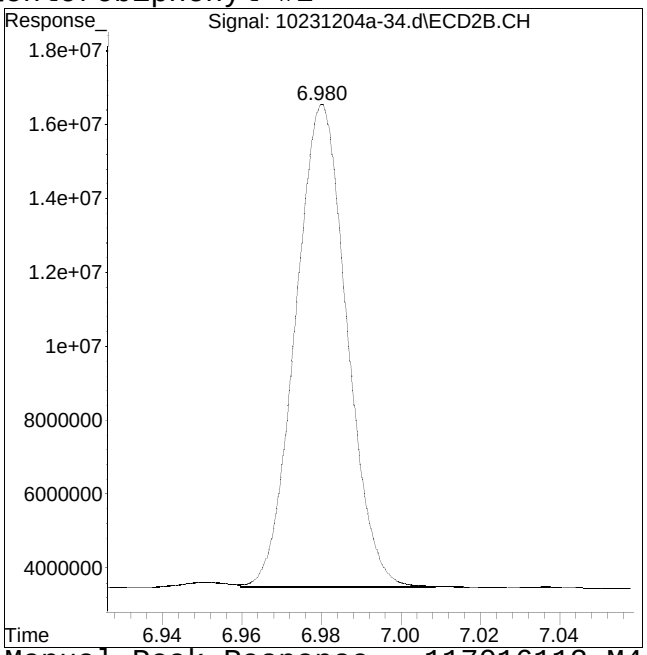
Original Peak Response = 295172347 Manual Peak Response = 285198175 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-34.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:51 pm Instrument : Pest 10
Sample : L2370783-08,42,, Quant Date : 12/4/2023 5:31 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 119067964 Manual Peak Response = 117016112 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-35.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 5:02 pm
Operator : PEST10:mmg
Sample : L2370783-09,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:46:18 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.313	1.405	194.9E6	81993105	25.000	25.000M3
	Standard Area 1 : #1 = 199312348				Recovery =	97.78%	
	Standard Area 1 : #2 = 87020004				Recovery =	94.22%	
28) i	1-br-2-nb_Ch	1.313	1.405	194.9E6	81993105	25.000	25.000M3
33) i	1-br-2-nb_To	1.313	1.405	194.9E6	81993105	25.000	25.000M3
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.657	1.894	365.5E6	161.7E6	44.884M4	47.341M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		89.77%	94.68%
27) s	Decachlorobi	6.304	6.980	374.9E6	142.9E6	48.865M4	41.743
	Spiked Amount 50.000	Range 30 - 150		Recovery =		97.73%	83.49%
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-35.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 5:02 pm
Operator : PEST10:mmg
Sample : L2370783-09,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:46:18 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D.	N.D.
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

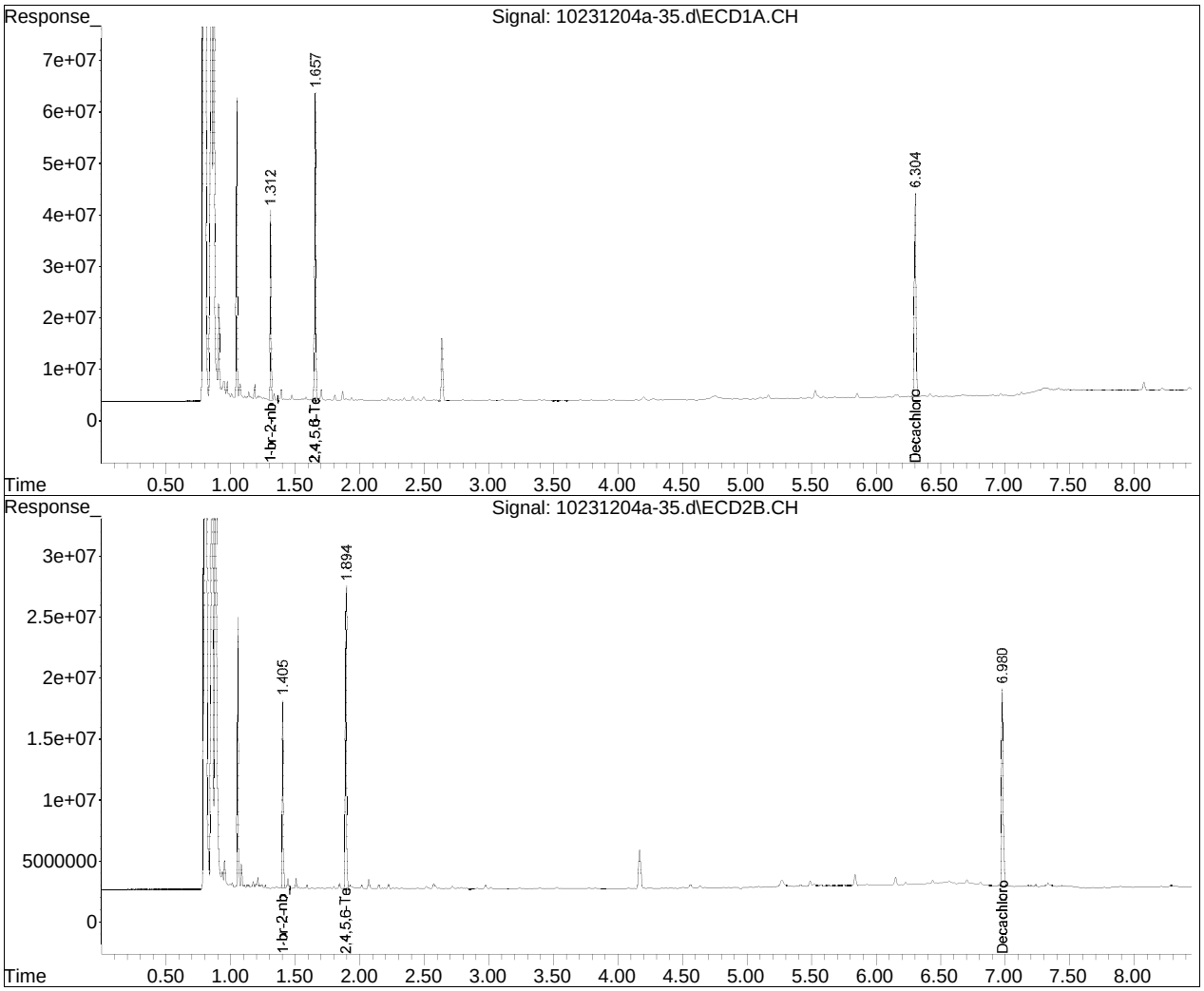
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10231204a-27.d••

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-35.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 5:02 pm
Operator : PEST10:mmg
Sample : L2370783-09,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:46:18 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

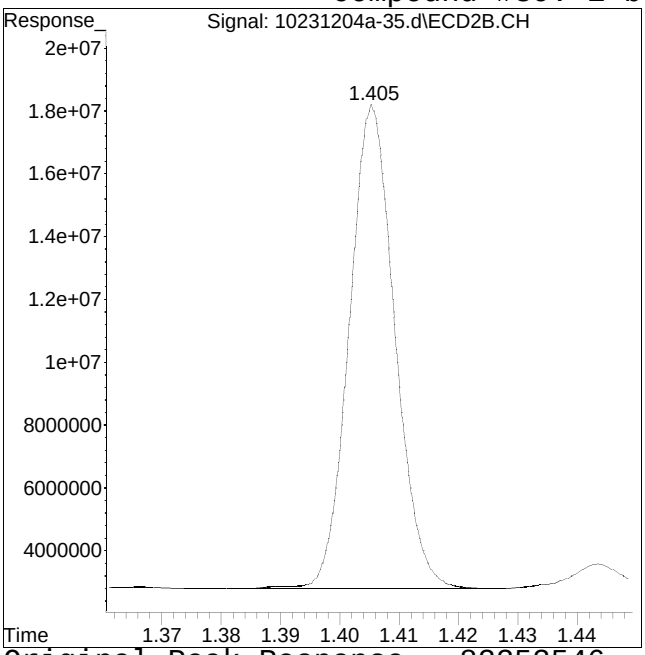
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

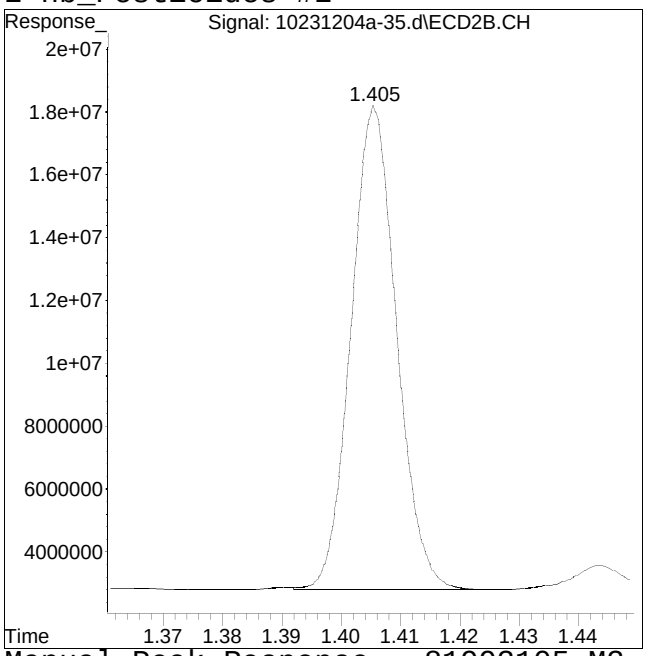


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-35.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 5:02 pm Instrument : Pest 10
Sample : L2370783-09,42,, Quant Date : 12/4/2023 5:31 pm

Compound #39: 1-br-2-nb_Pesticides #2



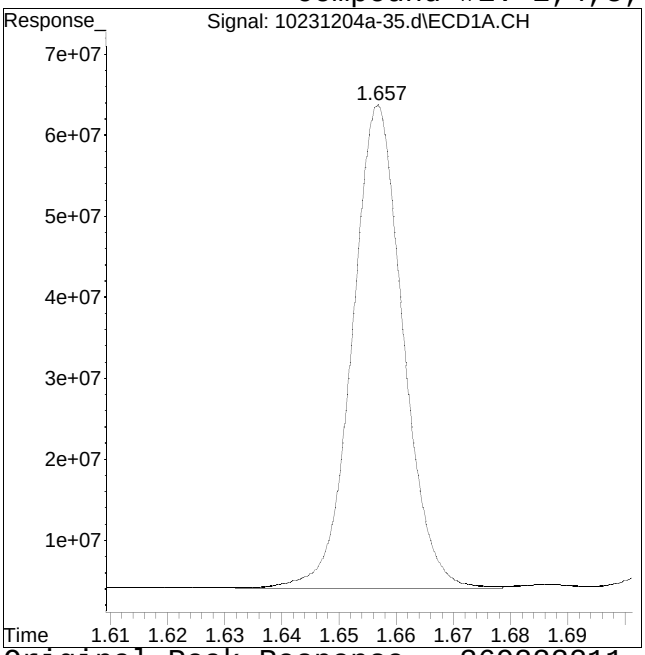


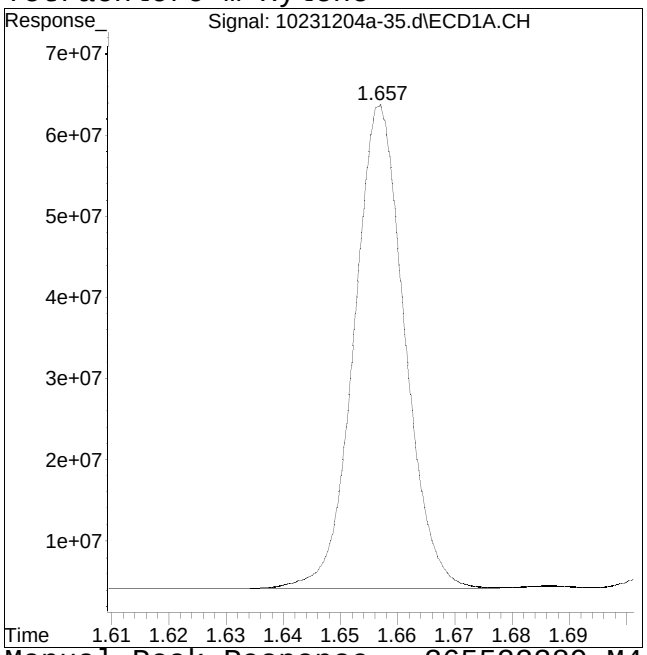
Original Peak Response = 82353546 Manual Peak Response = 81993105 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-35.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 5:02 pm Instrument : Pest 10
Sample : L2370783-09,42,, Quant Date : 12/4/2023 5:31 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



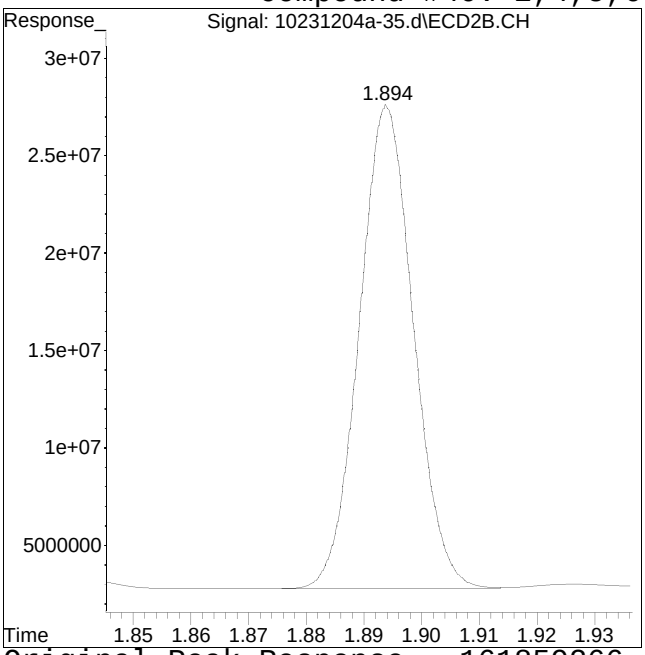


Original Peak Response = 369222211 Manual Peak Response = 365523389 M4
M4 = Poor automated baseline construction.

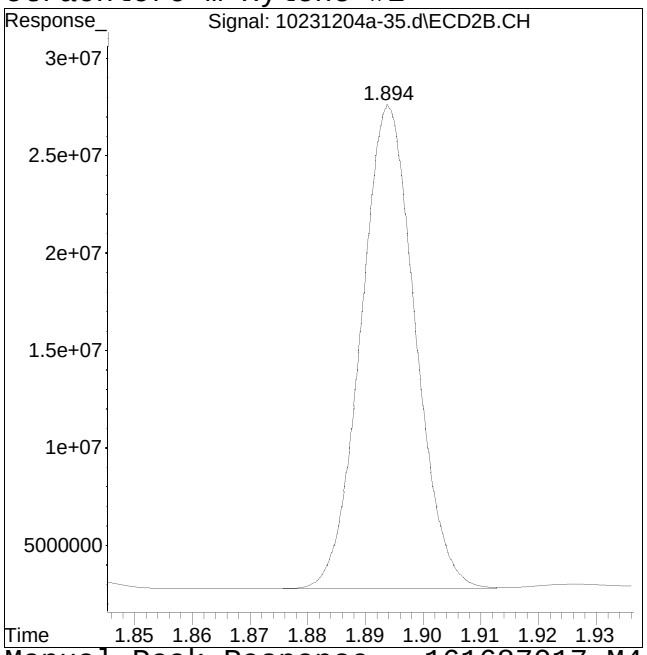
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-35.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 5:02 pm Instrument : Pest 10
Sample : L2370783-09,42,, Quant Date : 12/4/2023 5:31 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 161859266



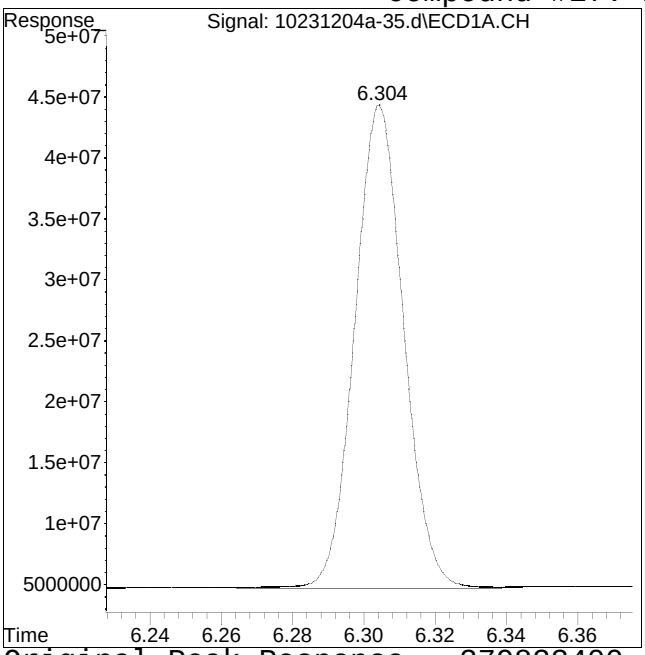
Manual Peak Response = 161687017 M4

M4 = Poor automated baseline construction.

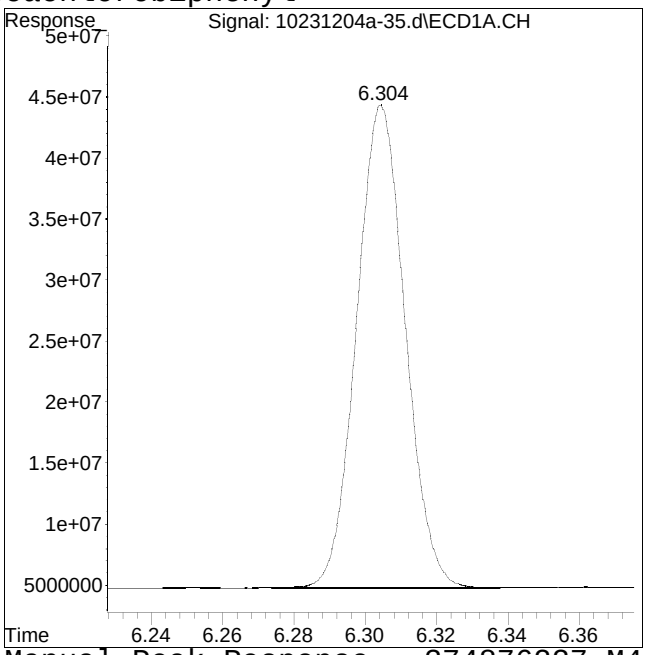
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-35.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 5:02 pm Instrument : Pest 10
Sample : L2370783-09,42,, Quant Date : 12/4/2023 5:31 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 379833400

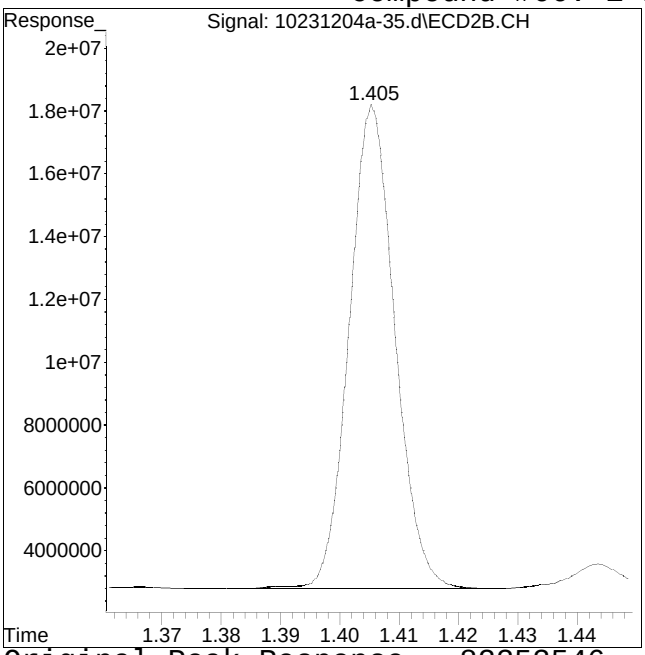


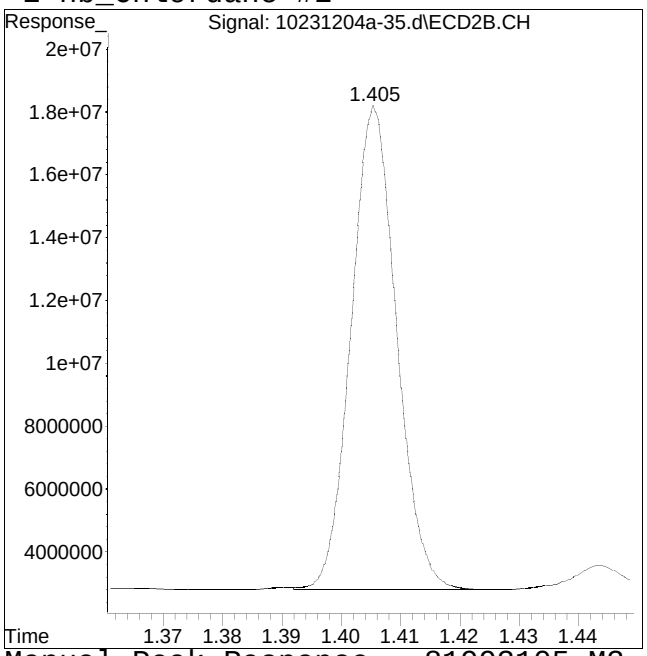
Manual Peak Response = 374876227 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-35.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 5:02 pm Instrument : Pest 10
Sample : L2370783-09,42,, Quant Date : 12/4/2023 5:31 pm

Compound #66: 1-br-2-nb_Chlordane #2



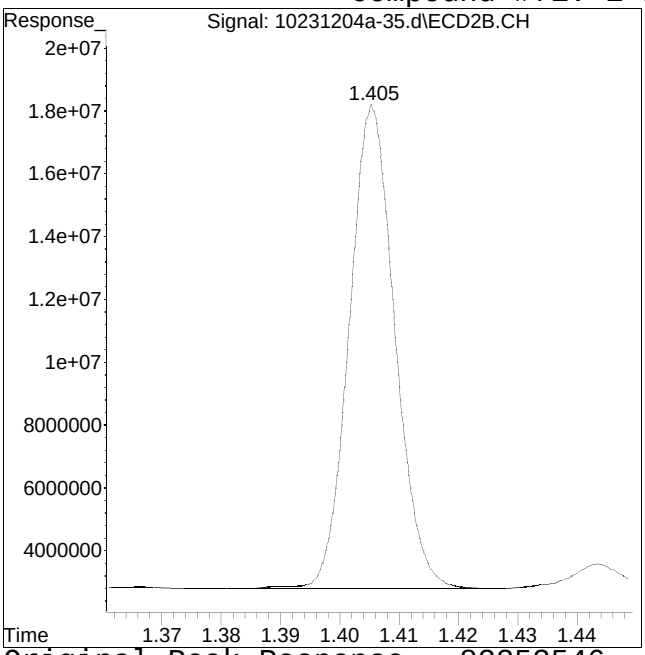


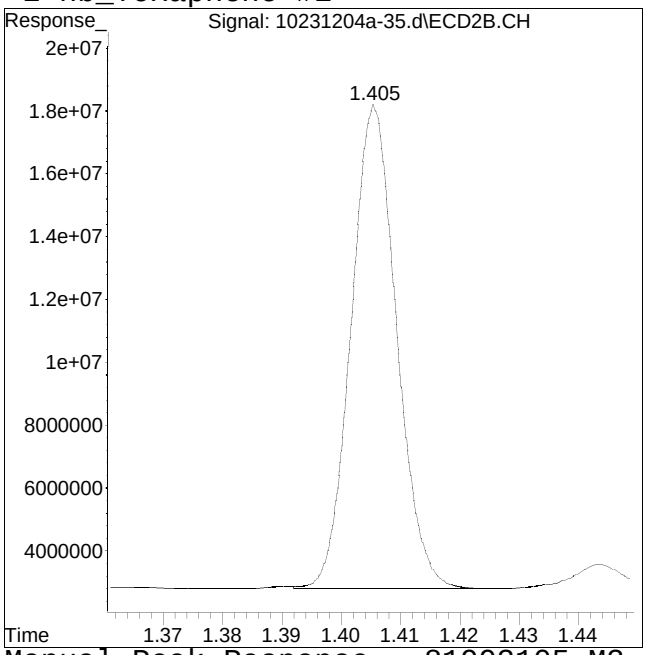
Original Peak Response = 82353546 Manual Peak Response = 81993105 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-35.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 5:02 pm Instrument : Pest 10
Sample : L2370783-09,42,, Quant Date : 12/4/2023 5:31 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 82353546 Manual Peak Response = 81993105 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-36.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 5:13 pm
Operator : PEST10:mmg
Sample : L2370783-11,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:47:37 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.312	1.406	183.9E6	77845049	25.000	25.000M3
	Standard Area 1 : #1 = 199312348				Recovery =	92.29%	
	Standard Area 1 : #2 = 87020004				Recovery =	89.46%	
28) i	1-br-2-nb_Ch	1.312	1.406	183.9E6	77845049	25.000	25.000M3
33) i	1-br-2-nb_To	1.312	1.406	183.9E6	77845049	25.000	25.000M3
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.656	1.895	327.5E6	148.7E6	42.605M4	45.871M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		85.21%	91.74%
27) s	Decachlorobi	6.303	6.977	241.3E6	96388487	33.327M4	29.334M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		66.65%	58.67%
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-36.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 5:13 pm
Operator : PEST10:mmg
Sample : L2370783-11,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:47:37 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

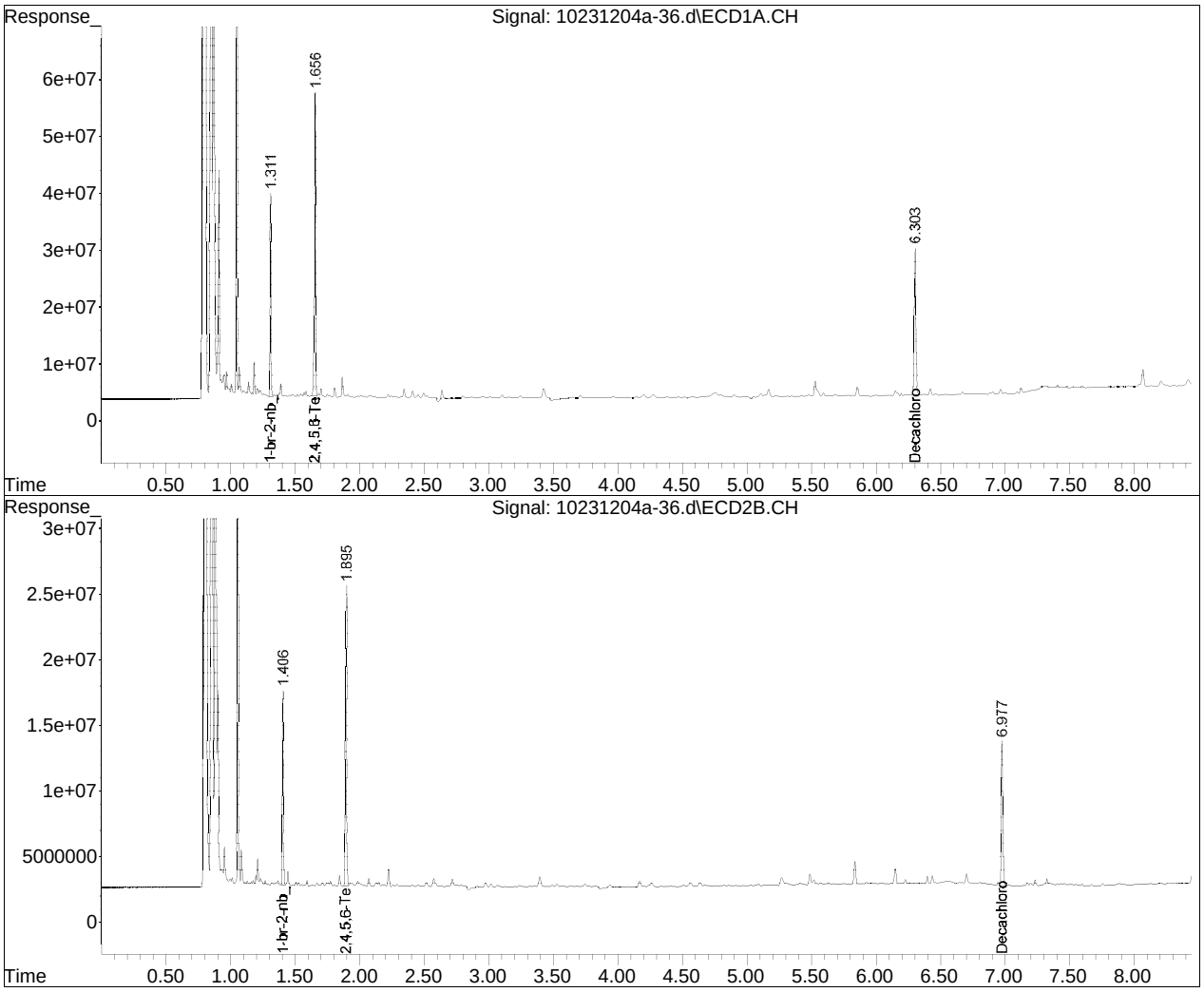
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\10231204a-27.d••

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-36.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 5:13 pm
Operator : PEST10:mmg
Sample : L2370783-11,42,,
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:47:37 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

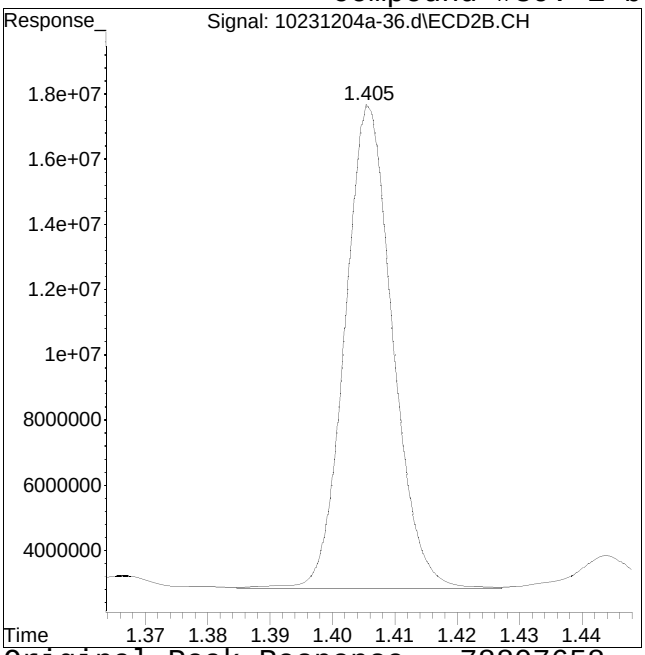
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

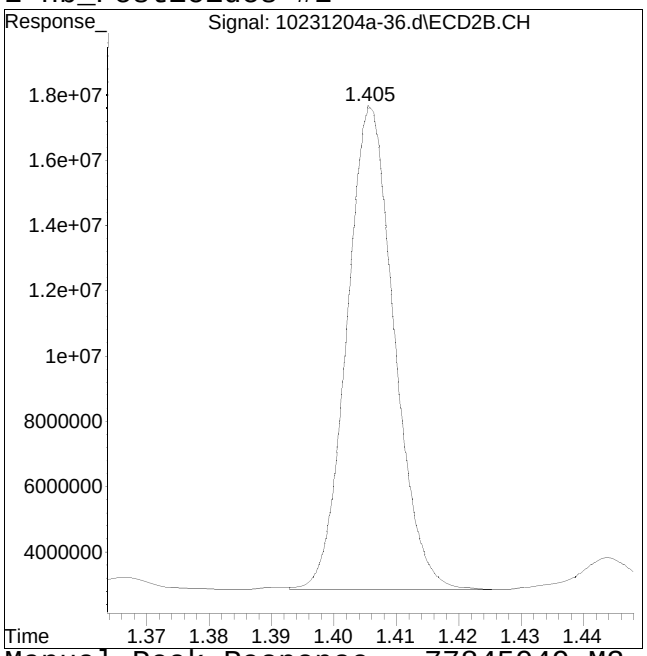


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-36.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 5:13 pm Instrument : Pest 10
Sample : L2370783-11,42,, Quant Date : 12/4/2023 5:31 pm

Compound #39: 1-br-2-nb_Pesticides #2



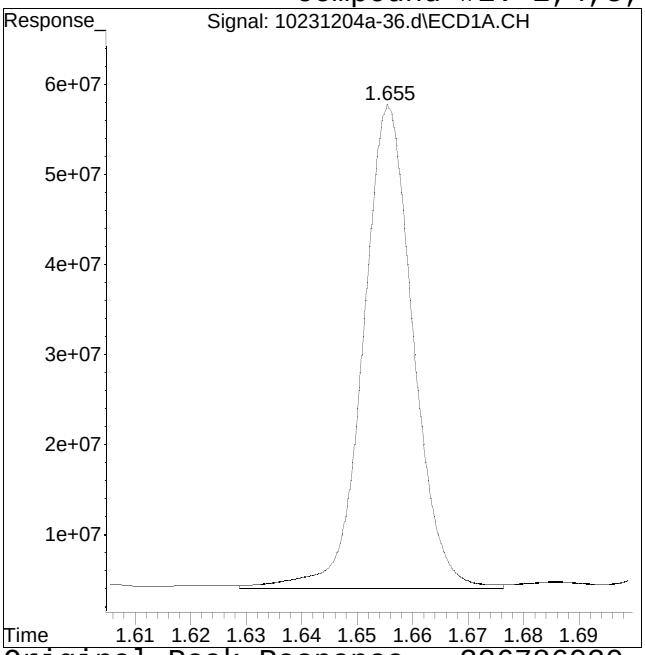


Original Peak Response = 78807658 Manual Peak Response = 77845049 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

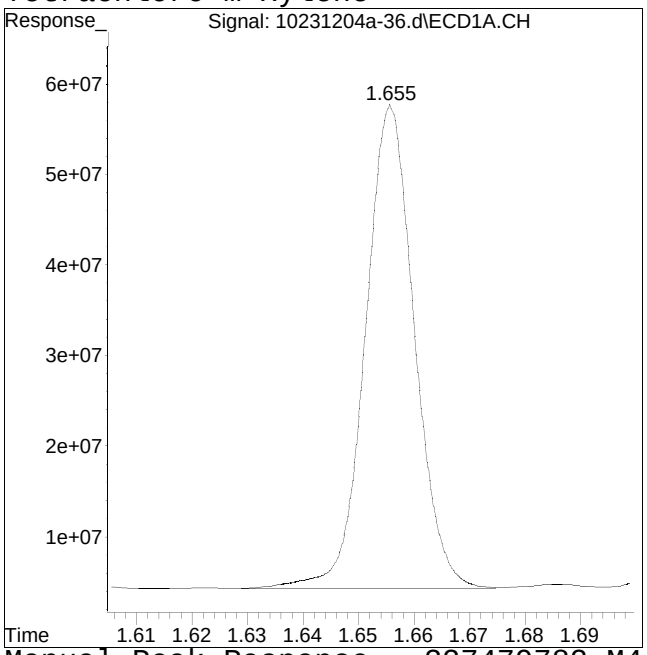
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-36.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 5:13 pm Instrument : Pest 10
Sample : L2370783-11,42,, Quant Date : 12/4/2023 5:31 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 336786930



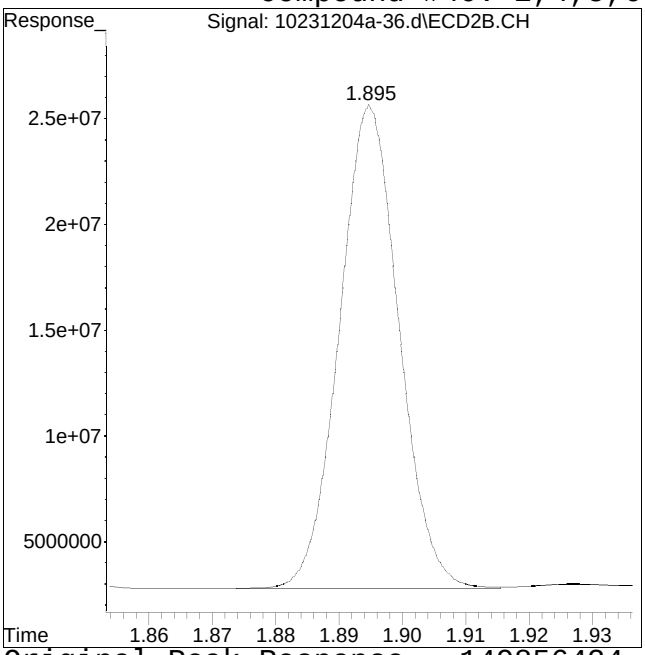
Manual Peak Response = 327479782 M4

M4 = Poor automated baseline construction.

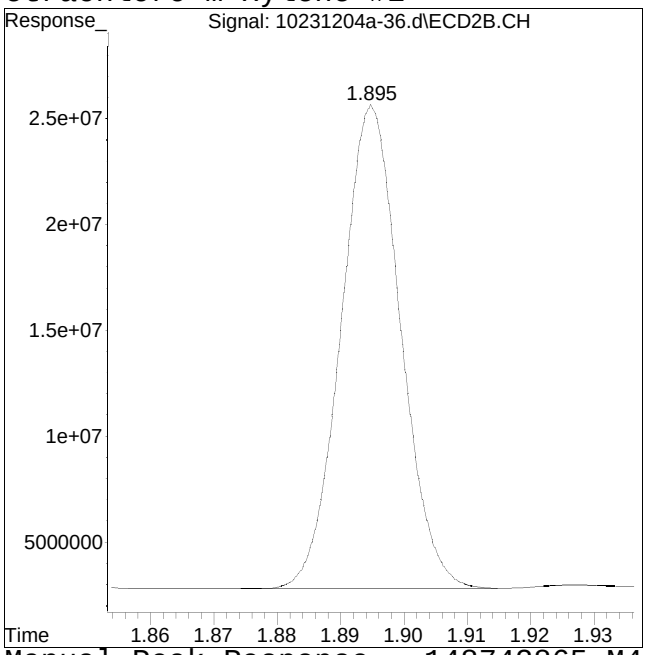
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-36.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 5:13 pm Instrument : Pest 10
Sample : L2370783-11,42,, Quant Date : 12/4/2023 5:31 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 149856424



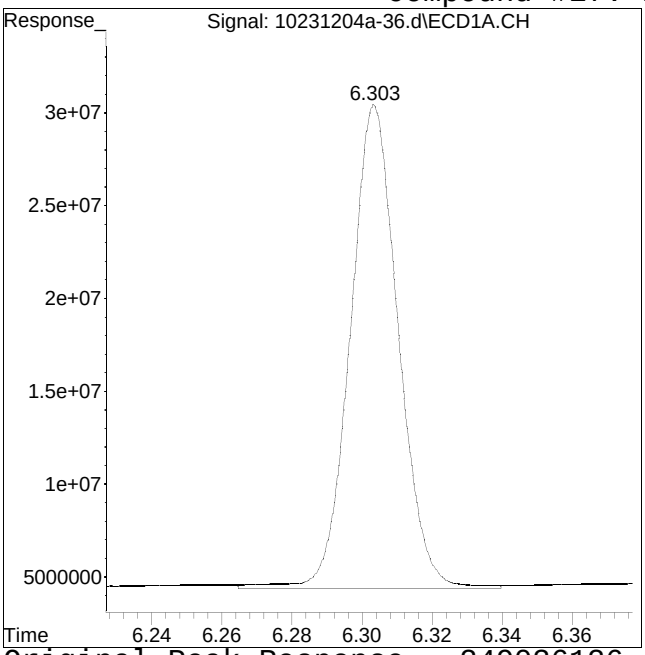
Manual Peak Response = 148742865 M4

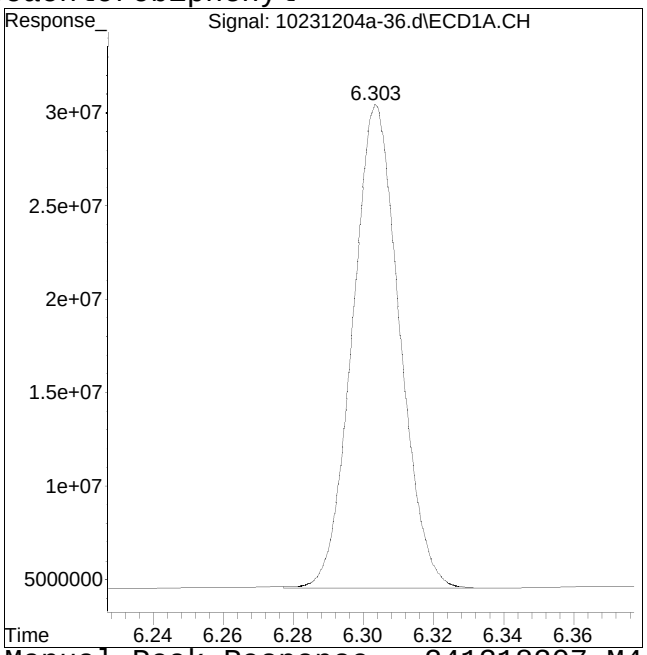
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-36.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 5:13 pm Instrument : Pest 10
Sample : L2370783-11,42,, Quant Date : 12/4/2023 5:31 pm

Compound #27: Decachlorobiphenyl



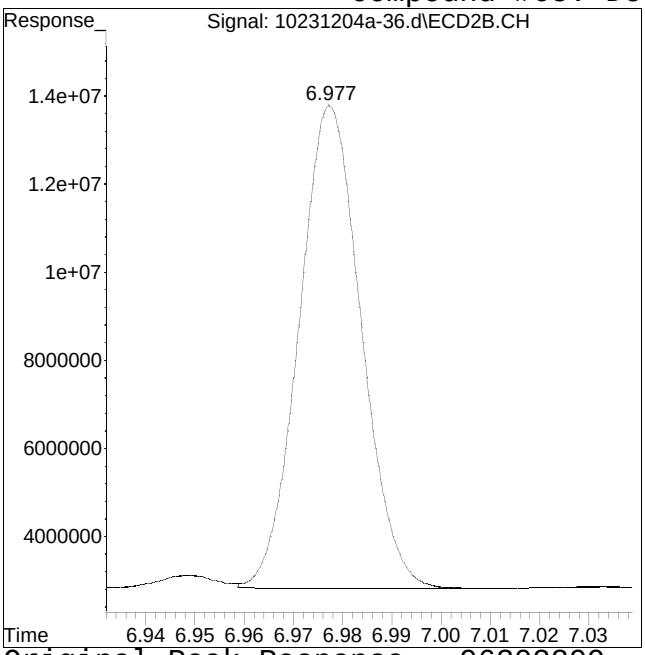


Original Peak Response = 249036126 Manual Peak Response = 241318307 M4
M4 = Poor automated baseline construction.

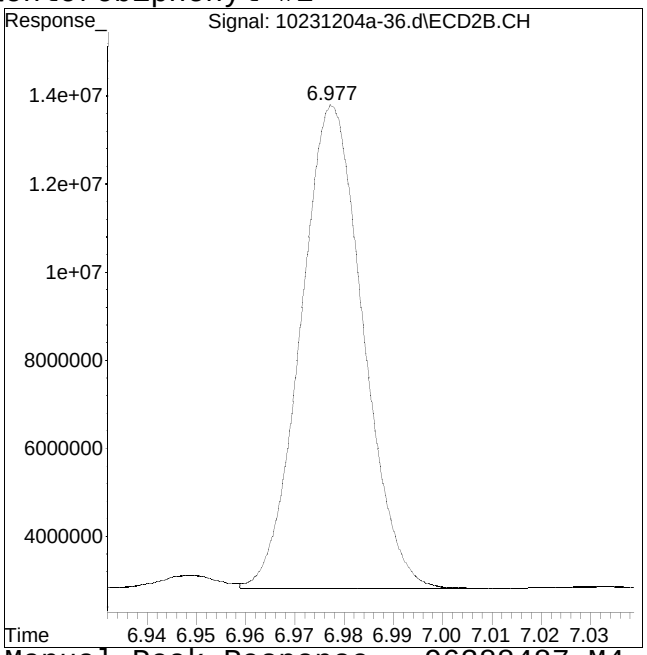
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-36.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 5:13 pm Instrument : Pest 10
Sample : L2370783-11,42,, Quant Date : 12/4/2023 5:31 pm

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 96302299



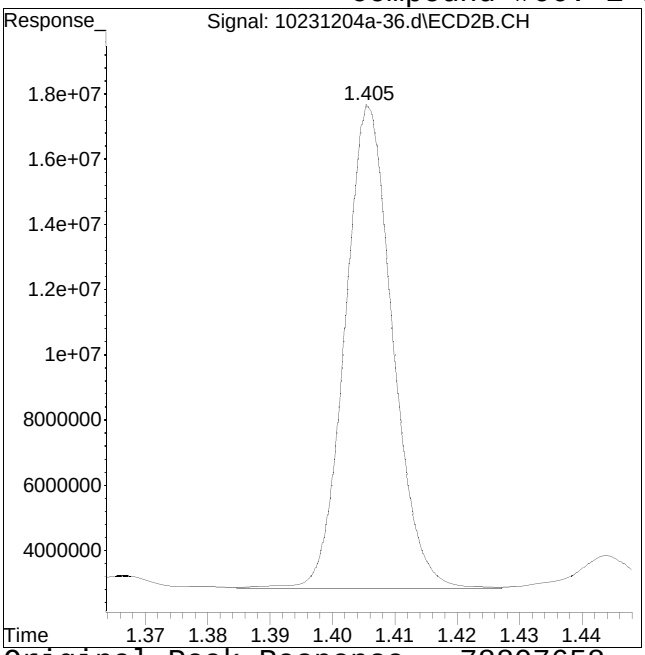
Manual Peak Response = 96388487 M4

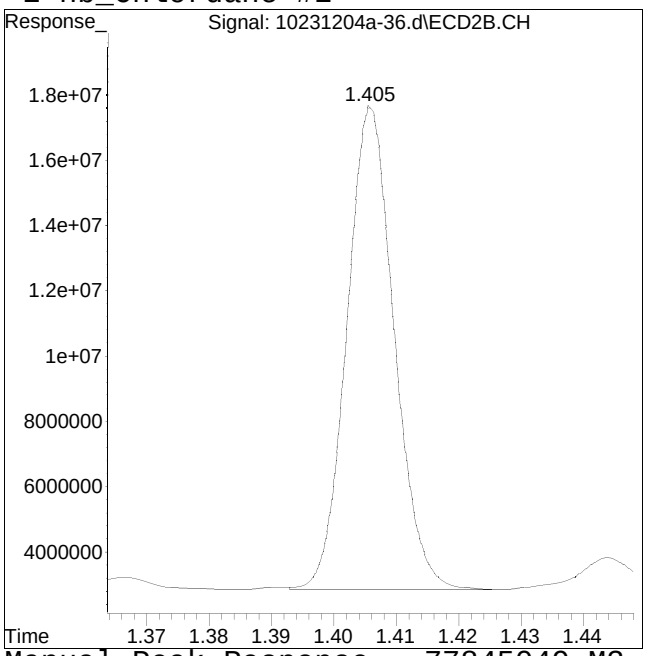
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-36.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 5:13 pm Instrument : Pest 10
Sample : L2370783-11,42,, Quant Date : 12/4/2023 5:31 pm

Compound #66: 1-br-2-nb_Chlordane #2



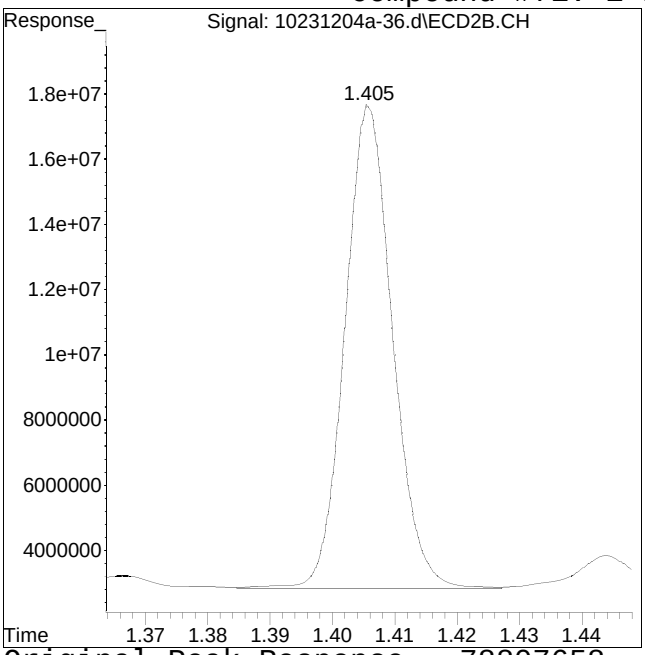


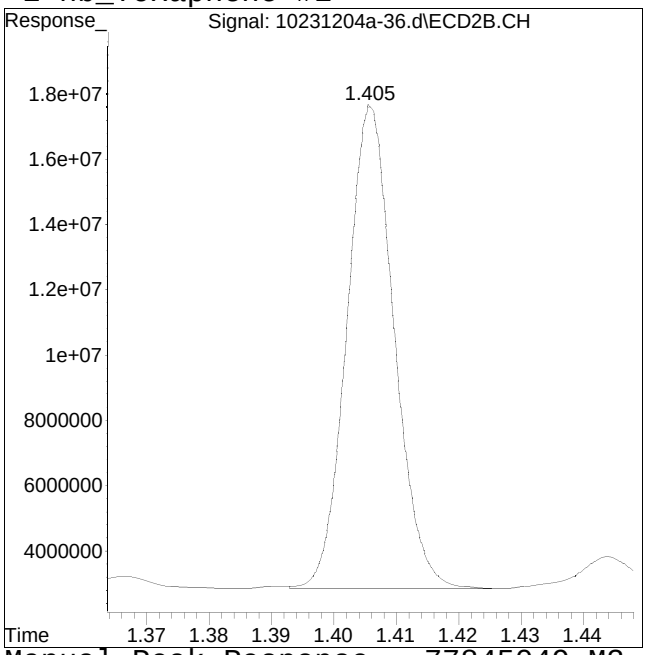
Original Peak Response = 78807658 Manual Peak Response = 77845049 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-36.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 5:13 pm Instrument : Pest 10
Sample : L2370783-11,42,, Quant Date : 12/4/2023 5:31 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 78807658 Manual Peak Response = 77845049 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:25 pm
Operator : PEST18:peg
Sample : L2370783-01,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 09:50:22 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231204B\18231204b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.746	1.793	115.1E6	94721604	25.000M3	25.000
	Standard Area 1 : #1 = 119196188				Recovery =	96.55%	
	Standard Area 1 : #2 = 88406823				Recovery =	107.14%	
28) i	1-br-2-nb_Ch	1.746	1.793	115.1E6	94721604	25.000M3	25.000
33) i	1-br-2-nb_To	1.746	1.793	115.1E6	94721604	25.000M3	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.180	2.345	192.3E6	149.7E6	40.193M3	37.384
	Spiked Amount 50.000	Range 30 - 150		Recovery =		80.39%	74.77%
27) s	Decachlorobi	6.977	7.544	154.4E6	122.9E6	33.841	32.698M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		67.68%	65.40%
	Target Compounds						
3)	Hexachlorobe	2.423	2.685	24058122	15068929	4.451M4	3.197
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D.	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:25 pm
Operator : PEST18:peg
Sample : L2370783-01,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 09:50:22 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231204B\18231204b-03.d
Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21)		4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)		Endrin Aldeh	0.000	0.000	0	0	N.D.	N.D. d
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum chlordane-1			0	0	N.D.	N.D.
		Average chlordane-1					0.000	0.000
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

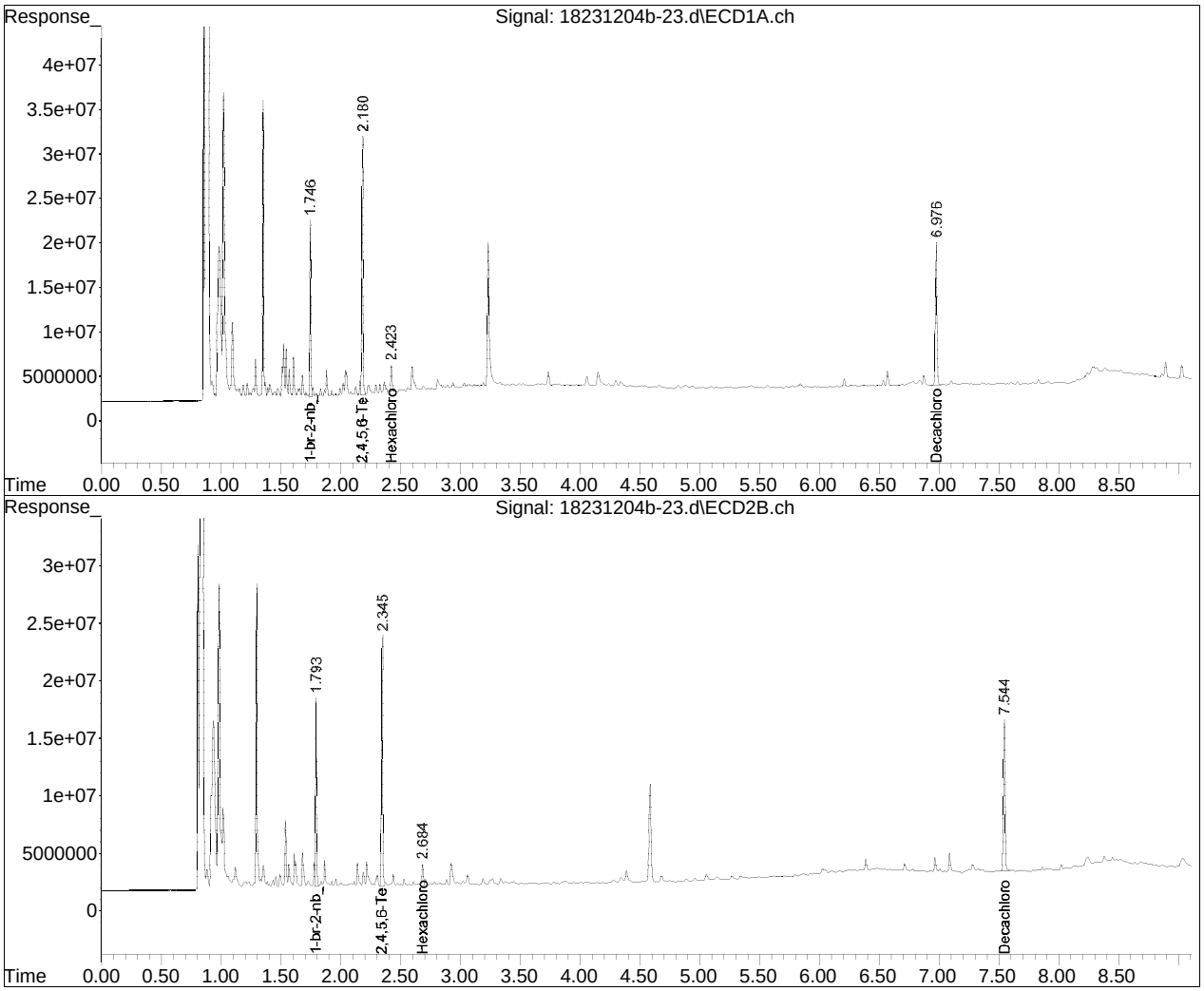
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\18231204b-03.d••

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:25 pm
Operator : PEST18:peg
Sample : L2370783-01,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 09:50:22 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

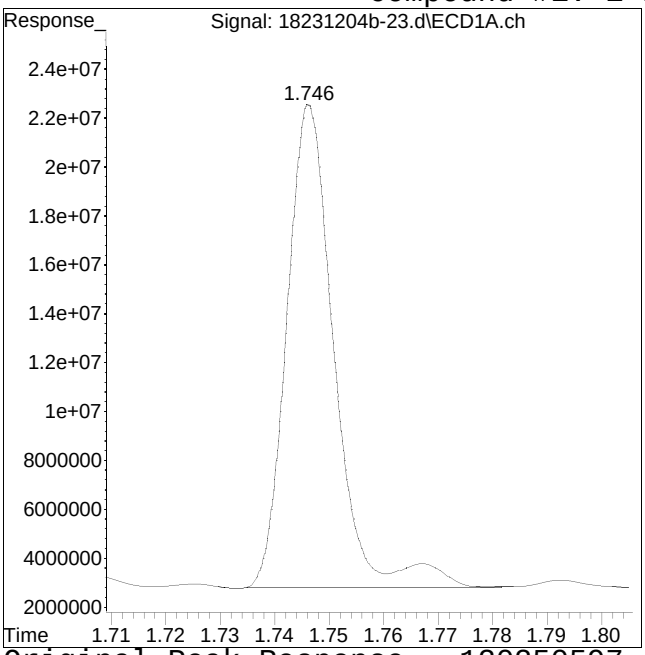
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

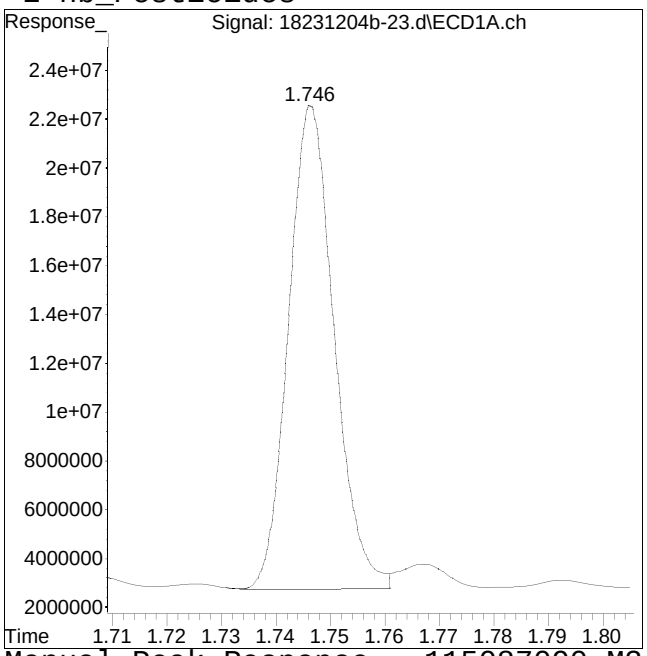


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-23.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:25 pm Instrument : Pest 18
Sample : L2370783-01,42,, Quant Date : 12/4/2023 6:09 pm

Compound #1: 1-br-2-nb_Pesticides



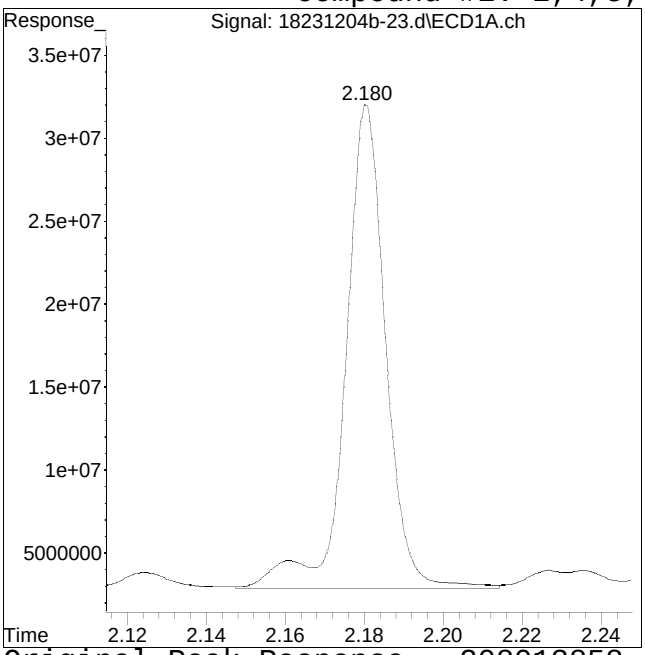


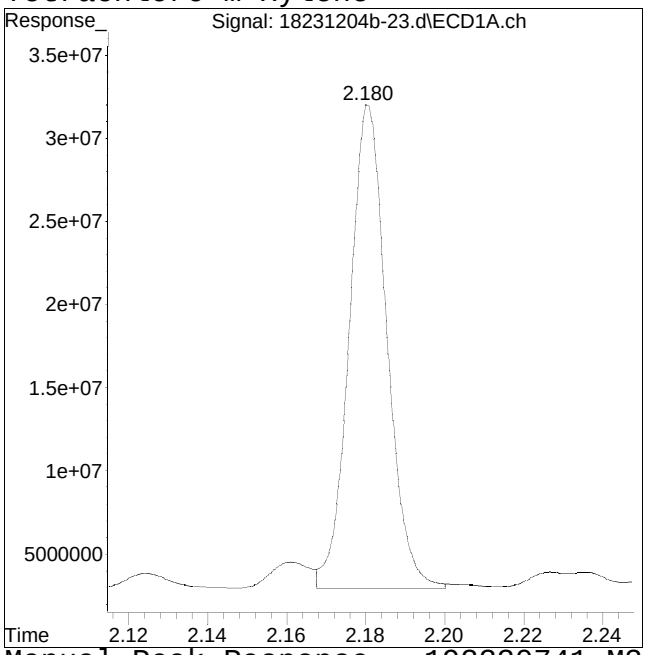
Original Peak Response = 120250597 Manual Peak Response = 115087090 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-23.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:25 pm Instrument : Pest 18
Sample : L2370783-01,42,, Quant Date : 12/4/2023 6:09 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



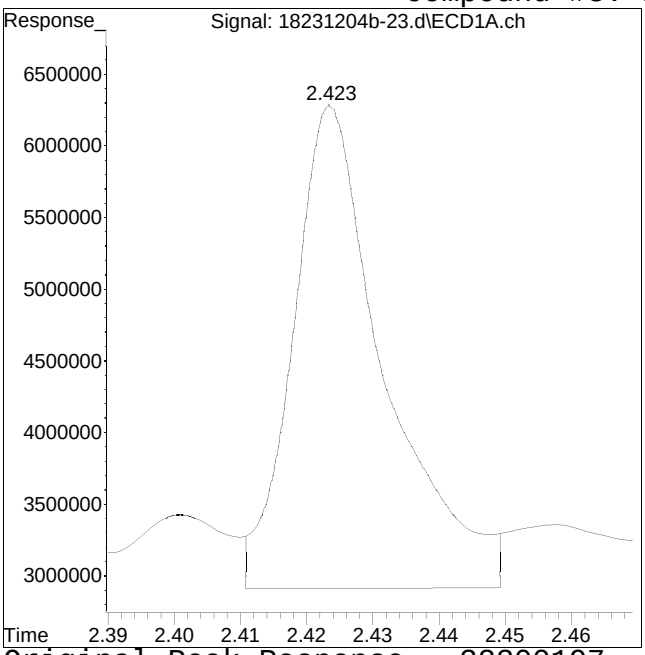


Original Peak Response = 208013858 Manual Peak Response = 192330741 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

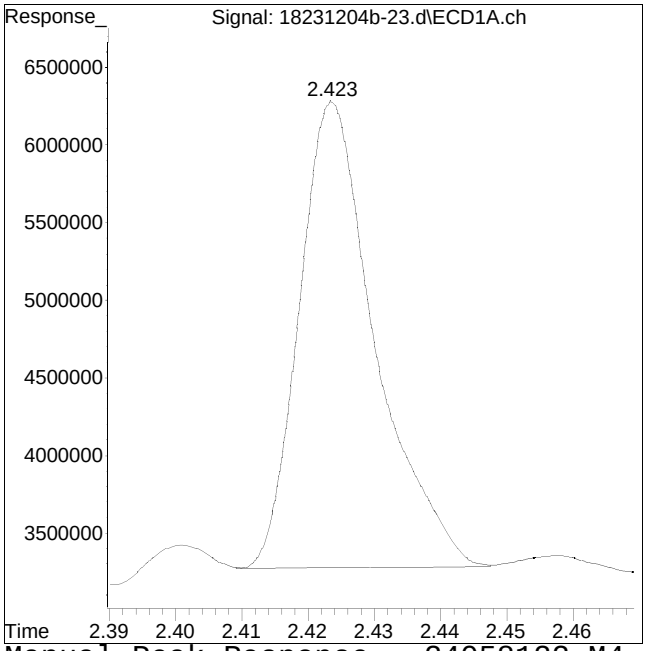
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-23.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:25 pm Instrument : Pest 18
Sample : L2370783-01,42,, Quant Date : 12/4/2023 6:09 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 32300197



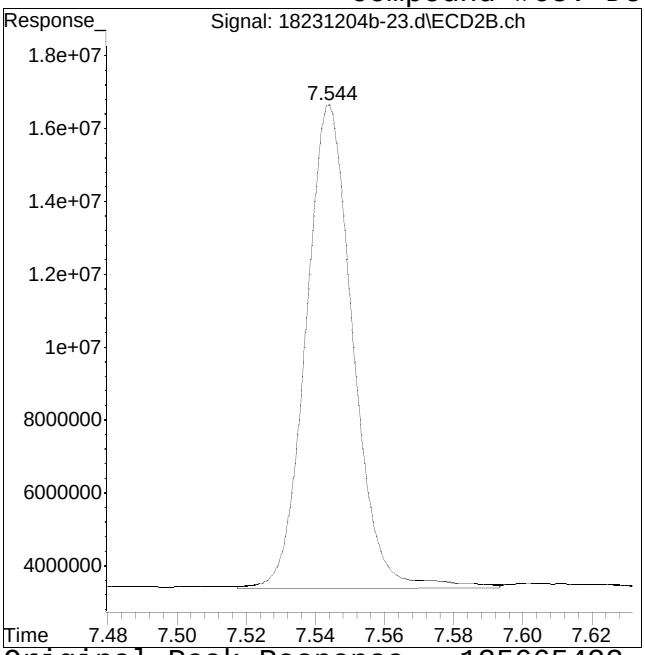
Manual Peak Response = 24058122 M4

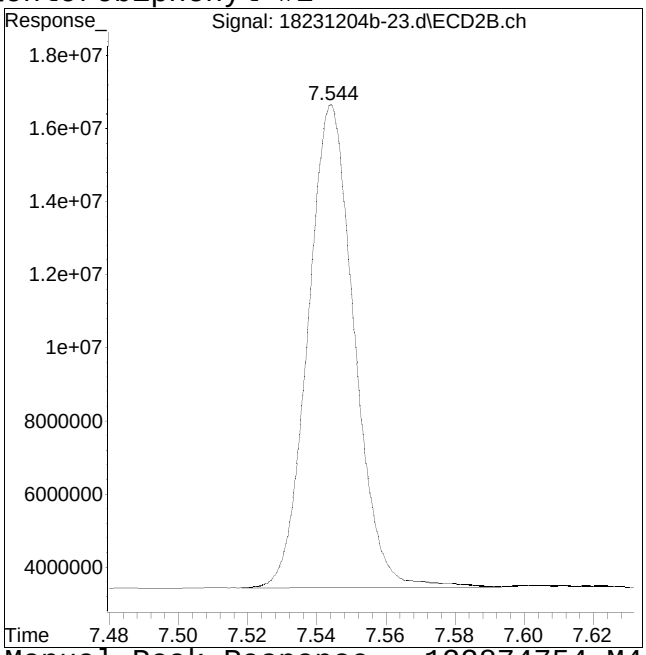
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-23.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:25 pm Instrument : Pest 18
Sample : L2370783-01,42,, Quant Date : 12/4/2023 6:09 pm

Compound #65: Decachlorobiphenyl #2



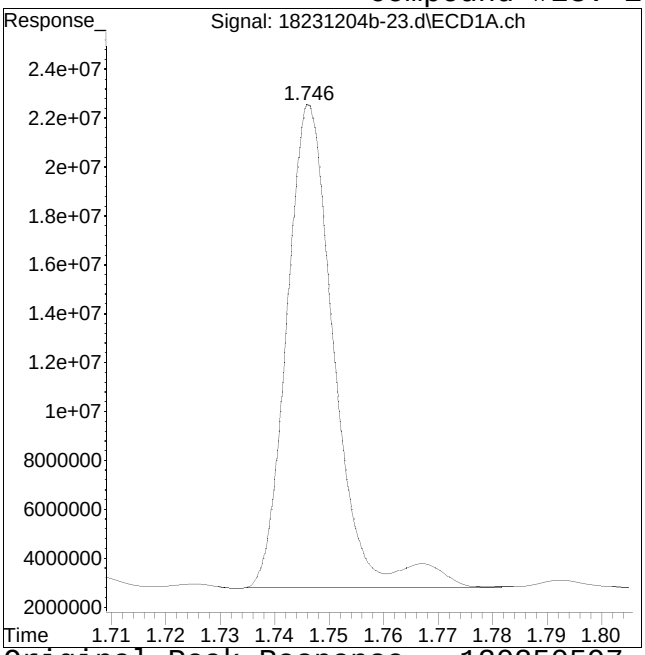


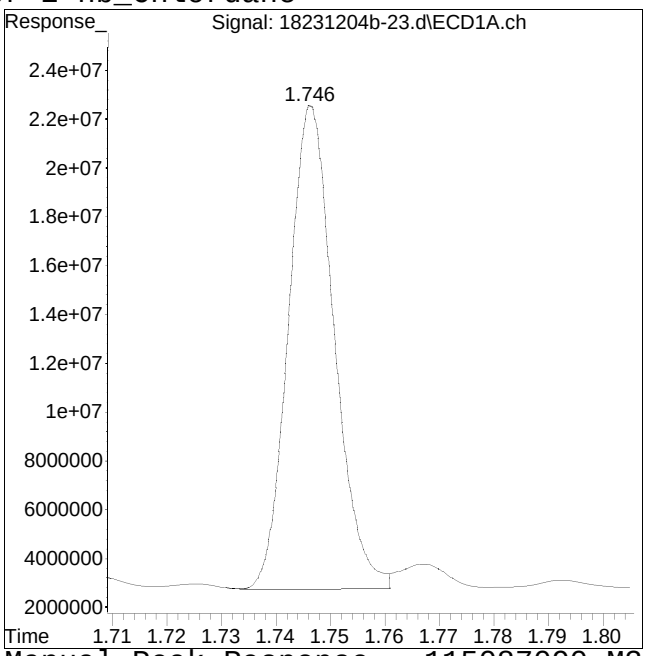
Original Peak Response = 125665422 Manual Peak Response = 122874754 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-23.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:25 pm Instrument : Pest 18
Sample : L2370783-01,42,, Quant Date : 12/4/2023 6:09 pm

Compound #28: 1-br-2-nb_Chlordane



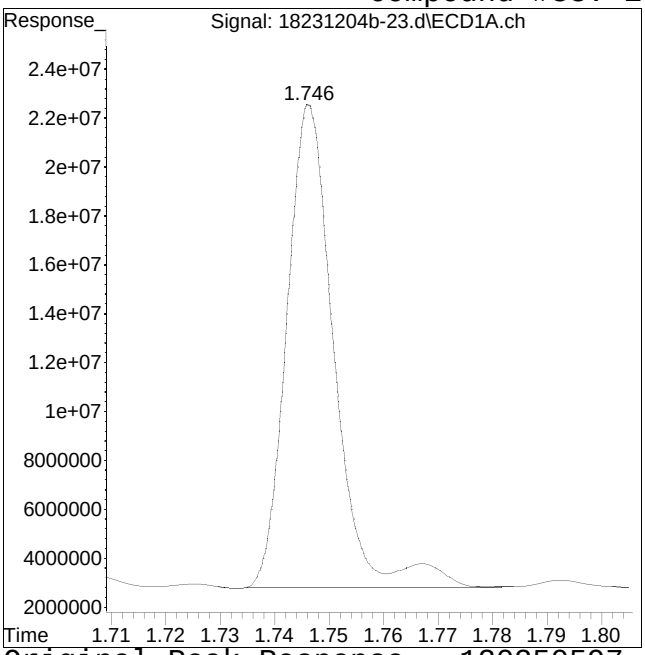


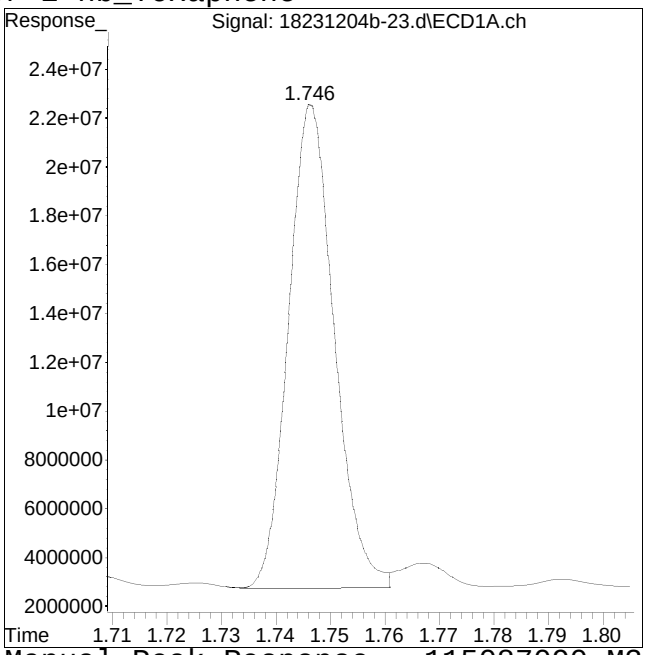
Original Peak Response = 120250597 Manual Peak Response = 115087090 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-23.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:25 pm Instrument : Pest 18
Sample : L2370783-01,42,, Quant Date : 12/4/2023 6:09 pm

Compound #33: 1-br-2-nb_Toxaphene





Original Peak Response = 120250597 Manual Peak Response = 115087090 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:36 pm
Operator : PEST18:peg
Sample : L2370783-02,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 10:08:14 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231204B\18231204b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.746	1.792	112.9E6	93621907	25.000M4	25.000M4
	Standard Area 1 : #1 = 119196188				Recovery = 94.74%		
	Standard Area 1 : #2 = 88406823				Recovery = 105.90%		
28) i	1-br-2-nb_Ch	1.746	1.792	112.9E6	93621907	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.746	1.792	112.9E6	93621907	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.180	2.345	173.1E6	138.2E6	36.875M3	34.933
	Spiked Amount 50.000	Range 30 - 150		Recovery =		73.75%	69.87%
27) s	Decachlorobi	6.976	7.543	156.6E6	128.2E6	35.025M4	34.516
	Spiked Amount 50.000	Range 30 - 150		Recovery =		70.05%	69.03%
	Target Compounds						
3)	Hexachlorobe	2.423	2.684	12658206	8909242	2.386M3	1.912
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D.	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D.
14)	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D.
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:36 pm
Operator : PEST18:peg
Sample : L2370783-02,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 10:08:14 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231204B\18231204b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D.	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D.	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:36 pm
Operator : PEST18:peg
Sample : L2370783-02,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 10:08:14 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231204B\18231204b-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

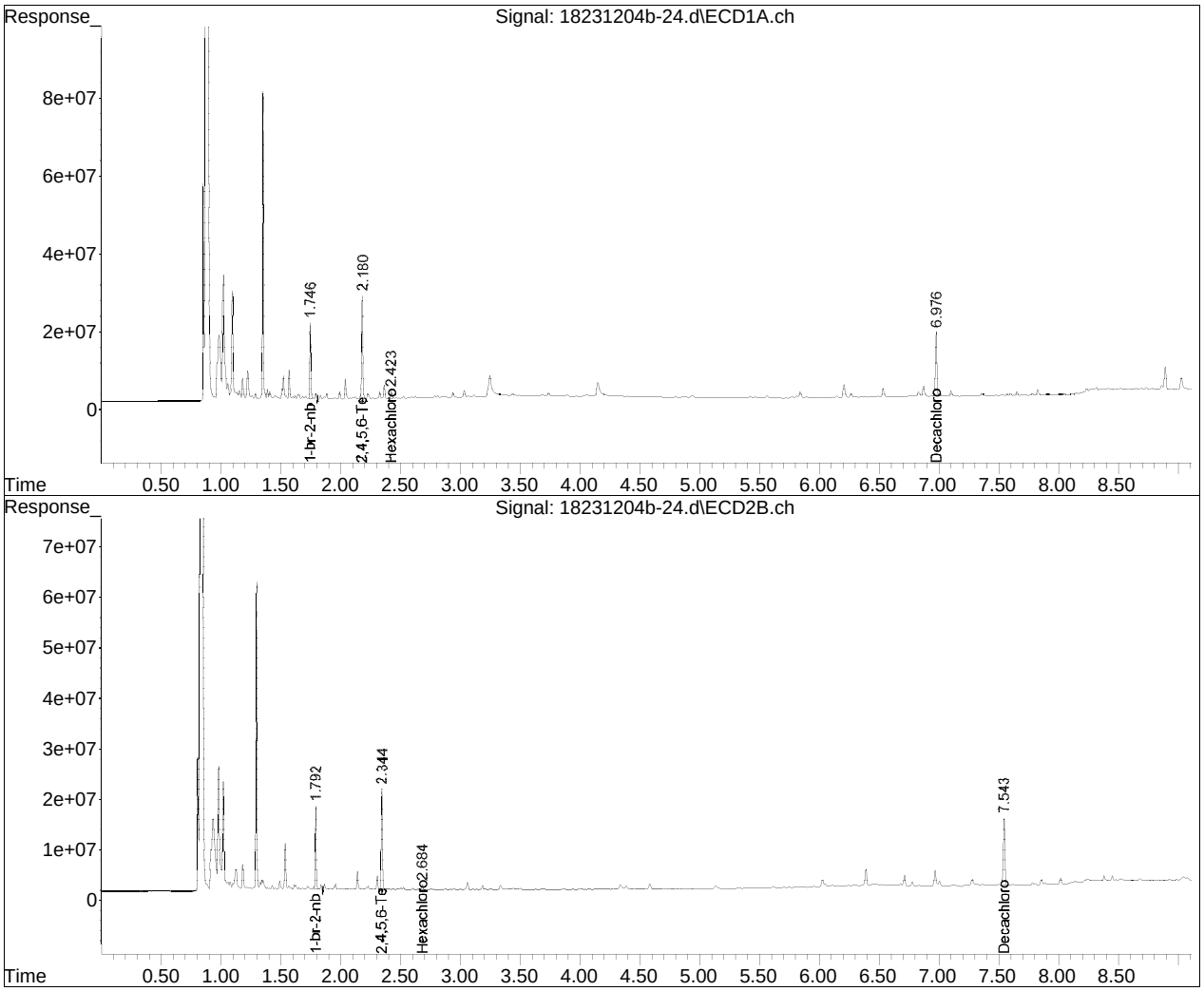
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\18231204b-03.d••

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:36 pm
Operator : PEST18:peg
Sample : L2370783-02,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 10:08:14 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

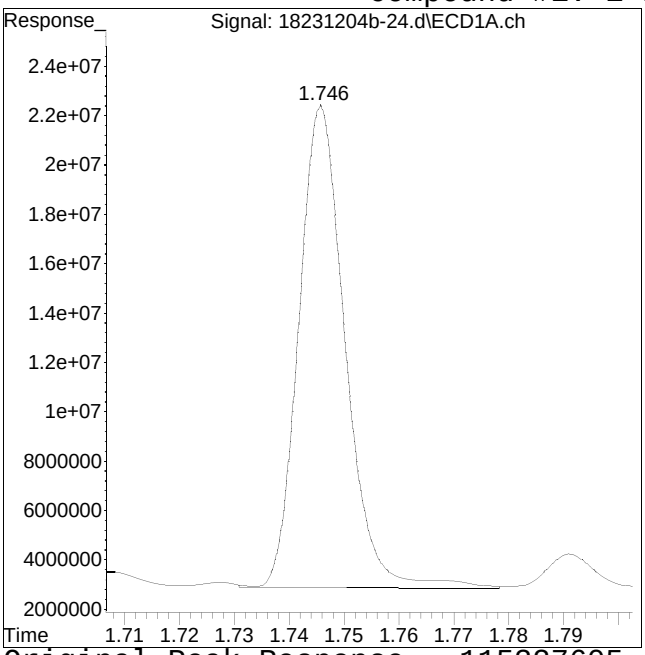
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

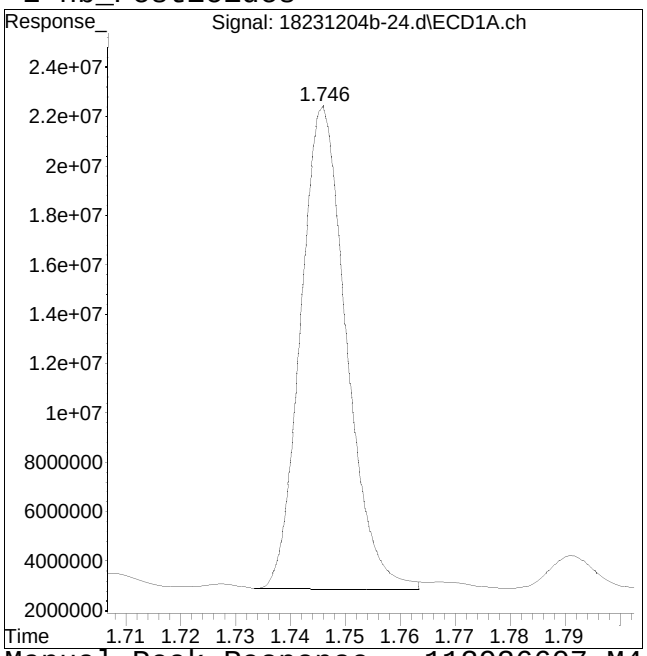


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-24.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:36 pm Instrument : Pest 18
Sample : L2370783-02,42,, Quant Date : 12/4/2023 6:09 pm

Compound #1: 1-br-2-nb_Pesticides



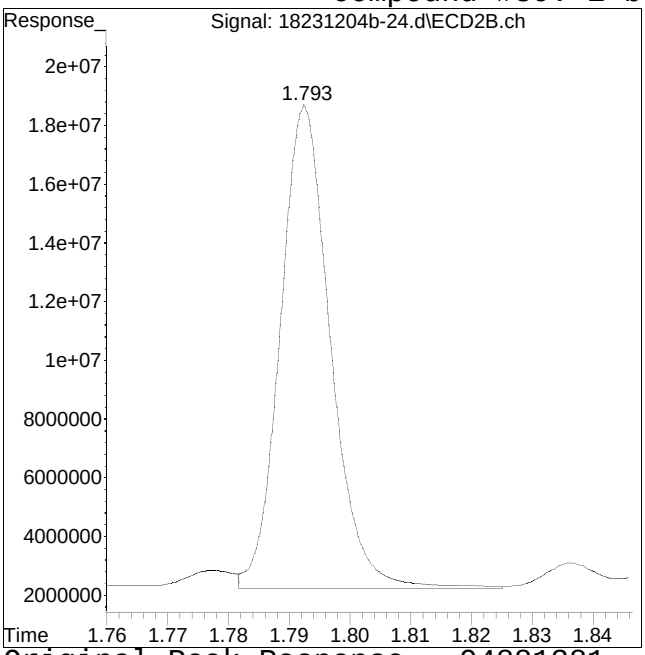


Original Peak Response = 115327605 Manual Peak Response = 112926607 M4
M4 = Poor automated baseline construction.

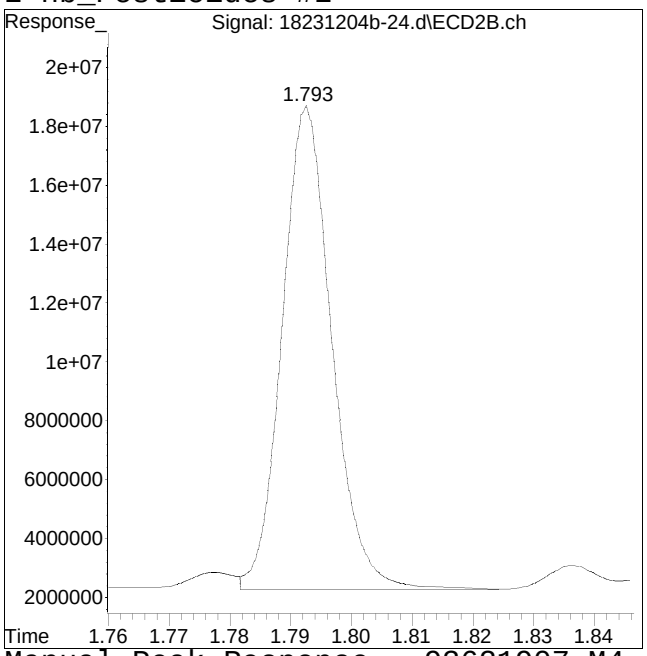
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-24.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:36 pm Instrument : Pest 18
Sample : L2370783-02,42,, Quant Date : 12/4/2023 6:09 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 94881381



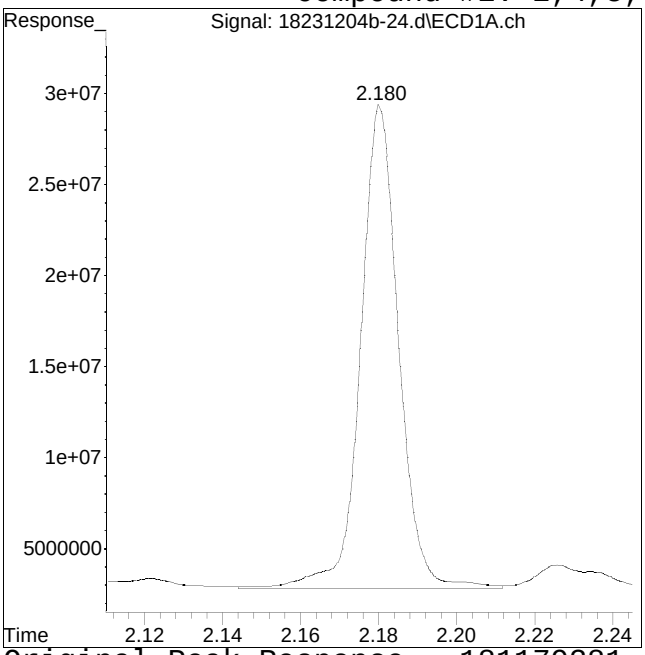
Manual Peak Response = 93621907 M4

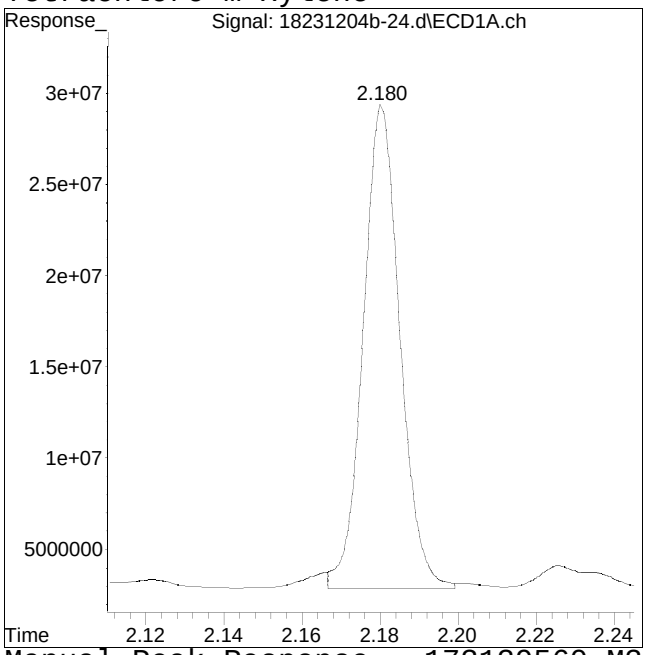
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-24.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:36 pm Instrument : Pest 18
Sample : L2370783-02,42,, Quant Date : 12/4/2023 6:09 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



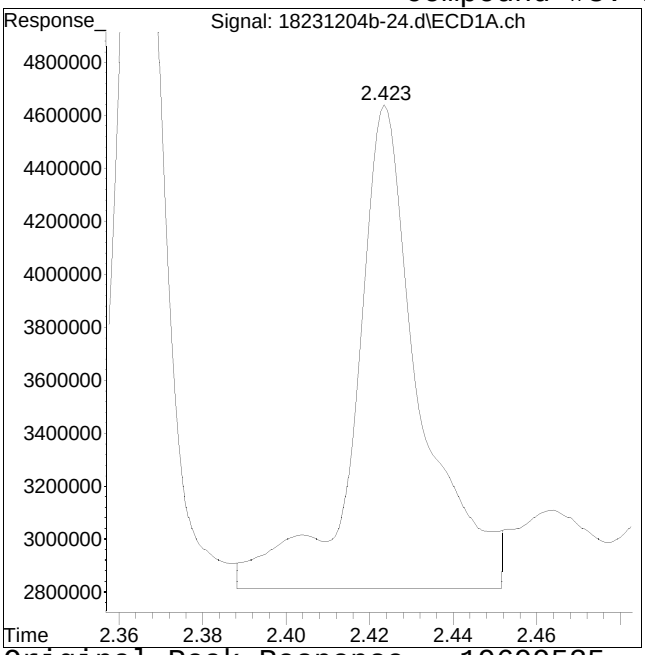


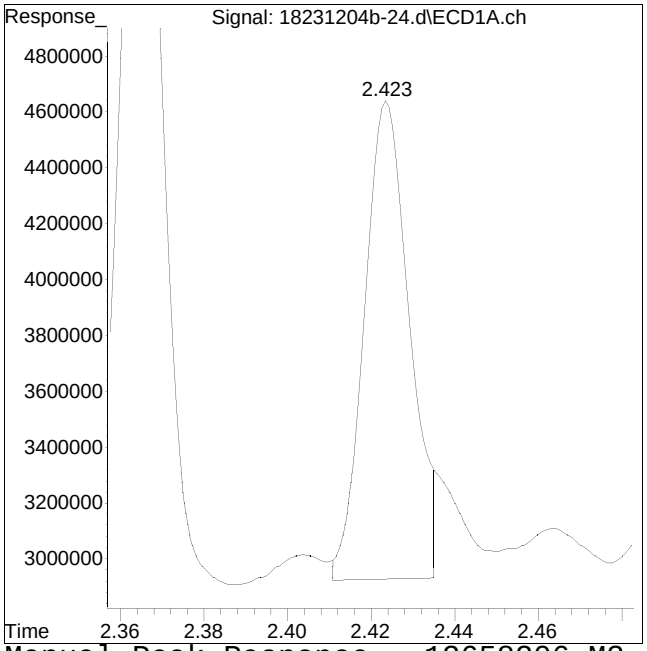
Original Peak Response = 181179381 Manual Peak Response = 173139560 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-24.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:36 pm Instrument : Pest 18
Sample : L2370783-02,42,, Quant Date : 12/4/2023 6:09 pm

Compound #3: Hexachlorobenzene



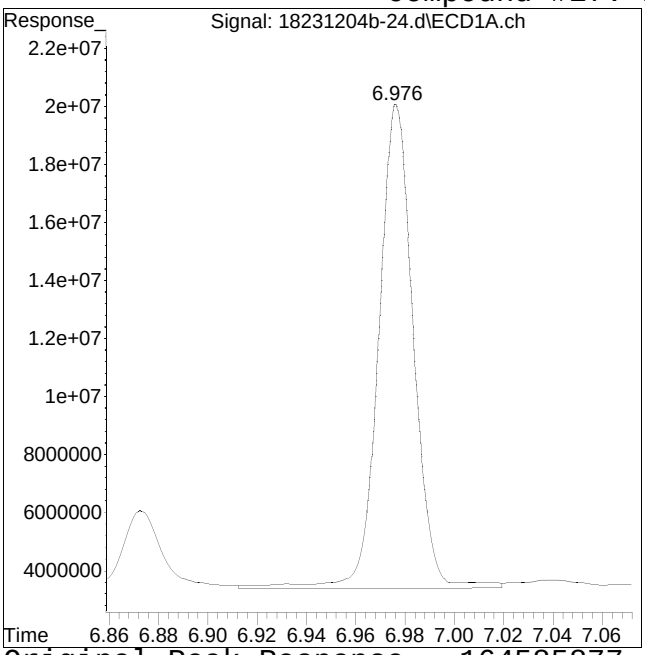


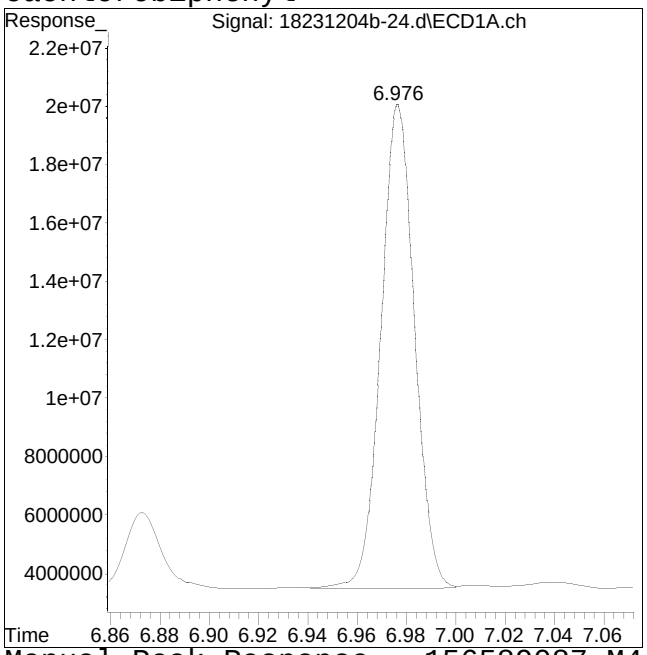
Original Peak Response = 19699535 Manual Peak Response = 12658206 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-24.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:36 pm Instrument : Pest 18
Sample : L2370783-02,42,, Quant Date : 12/4/2023 6:09 pm

Compound #27: Decachlorobiphenyl



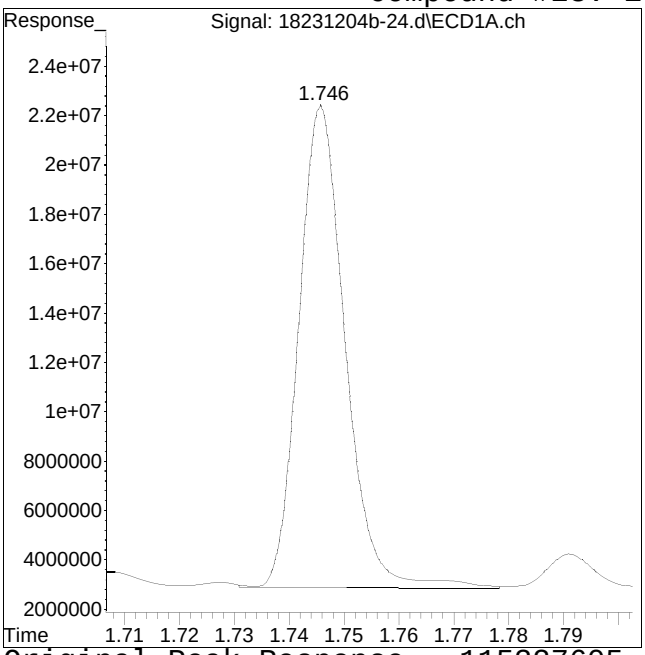


Original Peak Response = 164585877 Manual Peak Response = 156589087 M4
M4 = Poor automated baseline construction.

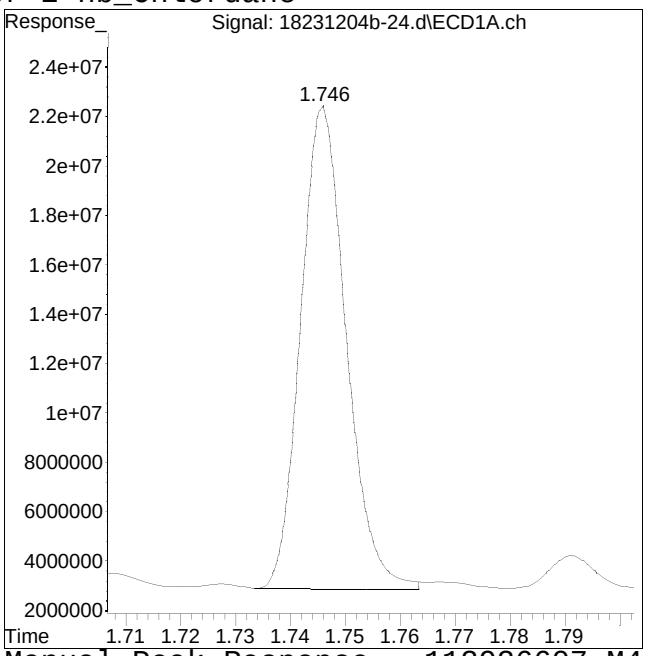
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-24.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:36 pm Instrument : Pest 18
Sample : L2370783-02,42,, Quant Date : 12/4/2023 6:09 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 115327605



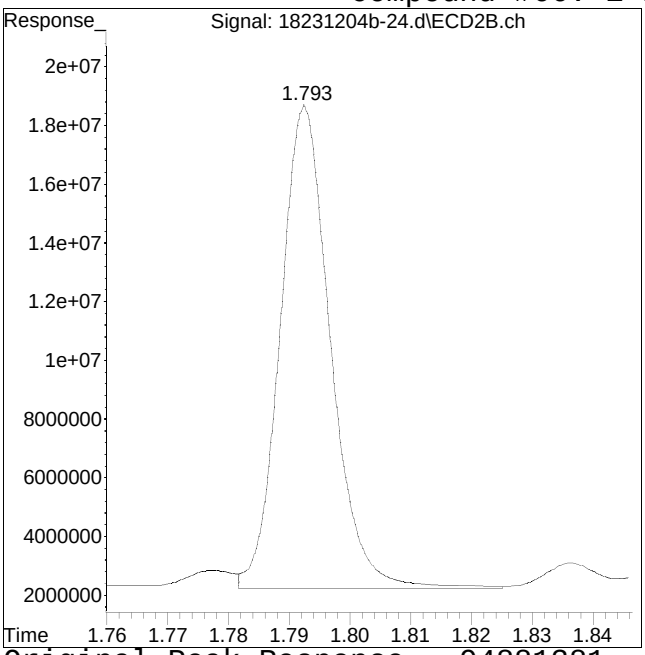
Manual Peak Response = 112926607 M4

M4 = Poor automated baseline construction.

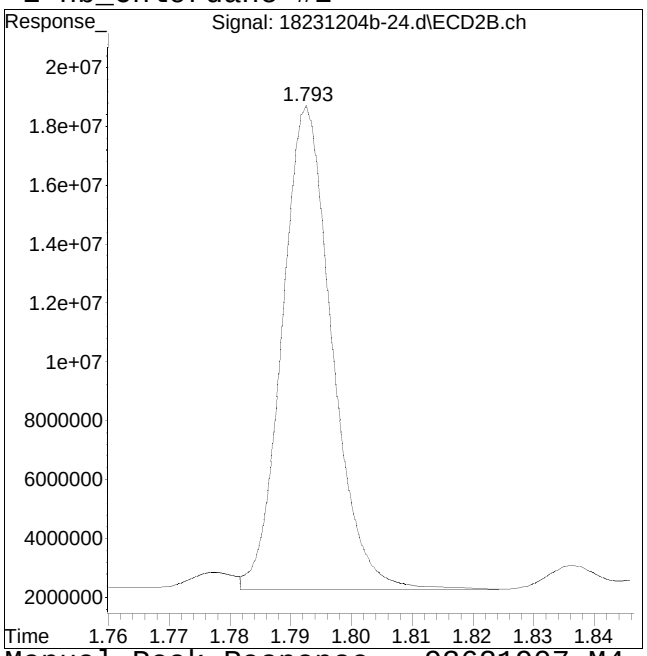
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-24.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:36 pm Instrument : Pest 18
Sample : L2370783-02,42,, Quant Date : 12/4/2023 6:09 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 94881381



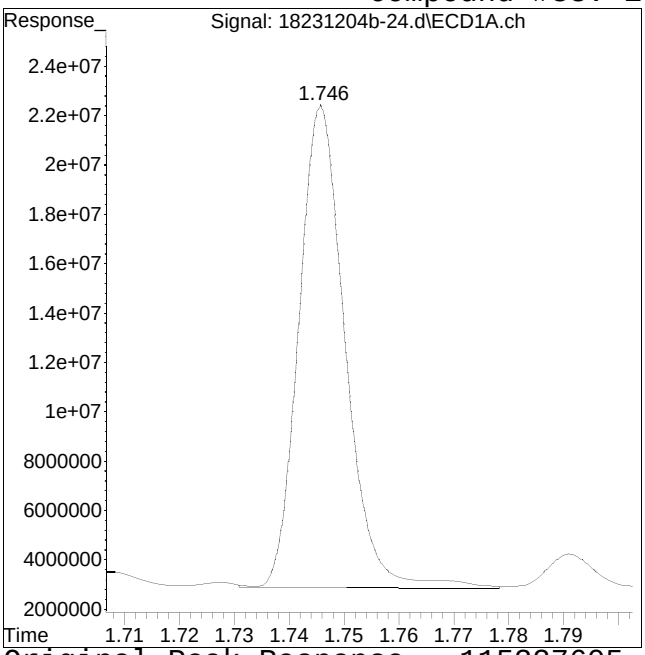
Manual Peak Response = 93621907 M4

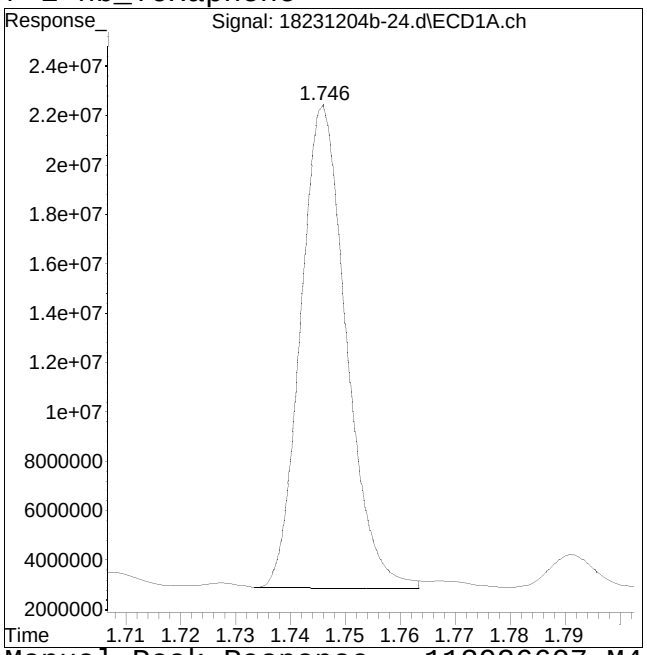
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-24.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:36 pm Instrument : Pest 18
Sample : L2370783-02,42,, Quant Date : 12/4/2023 6:09 pm

Compound #33: 1-br-2-nb_Toxaphene



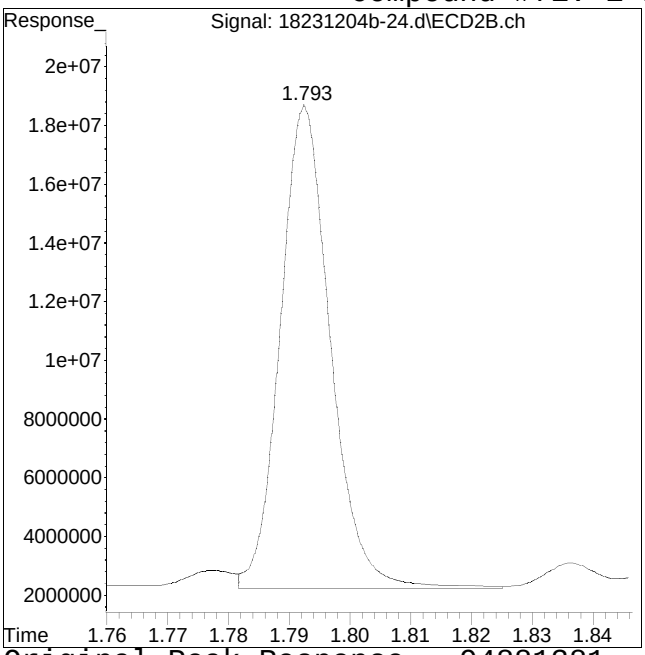


Original Peak Response = 115327605 Manual Peak Response = 112926607 M4
M4 = Poor automated baseline construction.

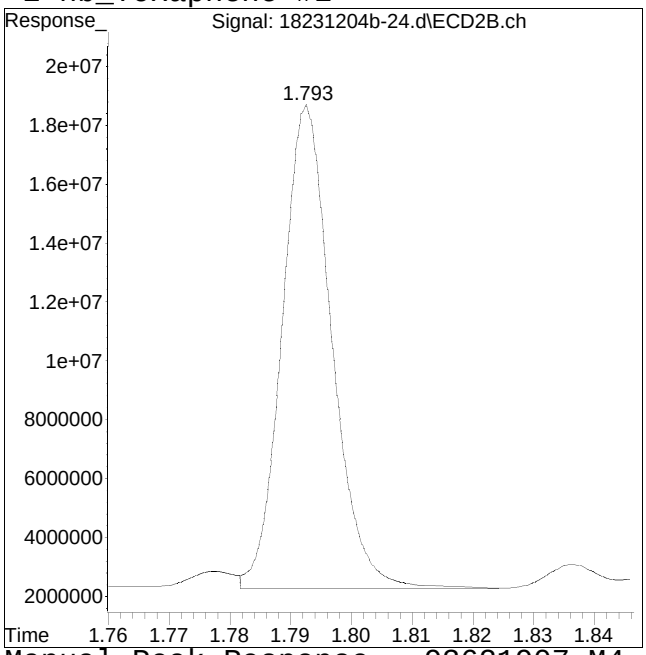
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-24.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:36 pm Instrument : Pest 18
Sample : L2370783-02,42,, Quant Date : 12/4/2023 6:09 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 94881381



Manual Peak Response = 93621907 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:47 pm
Operator : PEST18:peg
Sample : L2370783-03,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 10:13:20 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231204B\18231204b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.746	1.793	111.9E6	87586135	25.000M4	25.000
	Standard Area 1 : #1 = 119196188				Recovery =	93.88%	
	Standard Area 1 : #2 = 88406823				Recovery =	99.07%	
28) i	1-br-2-nb_Ch	1.746	1.793	111.9E6	87586135	25.000M4	25.000
33) i	1-br-2-nb_To	1.746	1.793	111.9E6	87586135	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.180	2.345	186.1E6	141.1E6	39.989M4	38.105
	Spiked Amount 50.000	Range 30 - 150		Recovery =		79.98%	76.21%
27) s	Decachlorobi	6.976	7.542	174.8E6	138.4E6	39.645M4	39.826M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		79.29%	79.65%
	Target Compounds						
3)	Hexachlorobe	2.423	2.684	6842955	3319765	1.302M3	0.762 ID
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D.	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D.
14)	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D.	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D.
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D. d

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:47 pm
Operator : PEST18:peg
Sample : L2370783-03,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 10:13:20 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231204B\18231204b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D.	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D.
25)	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

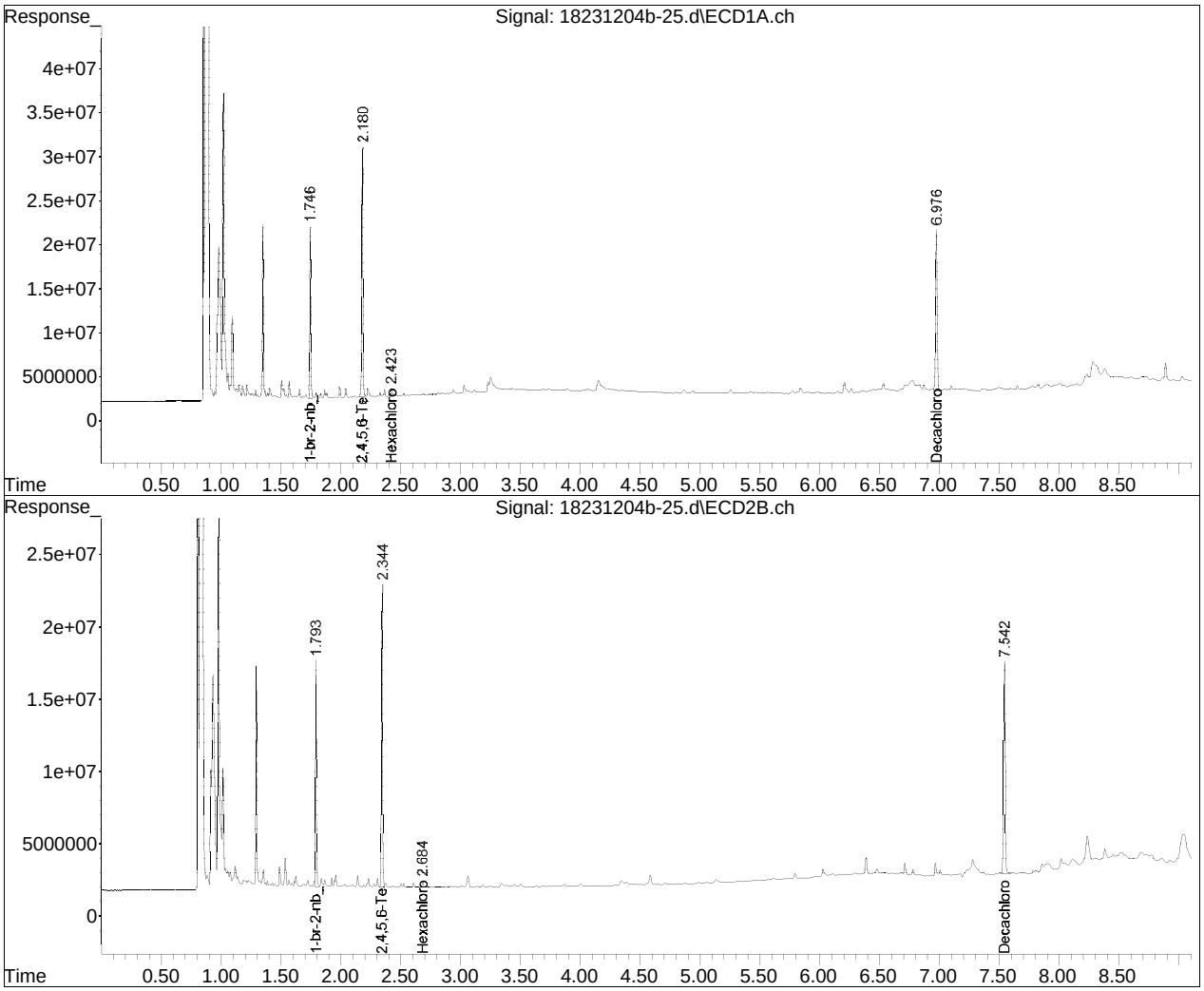
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\18231204b-03.d••

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:47 pm
Operator : PEST18:peg
Sample : L2370783-03,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 10:13:20 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

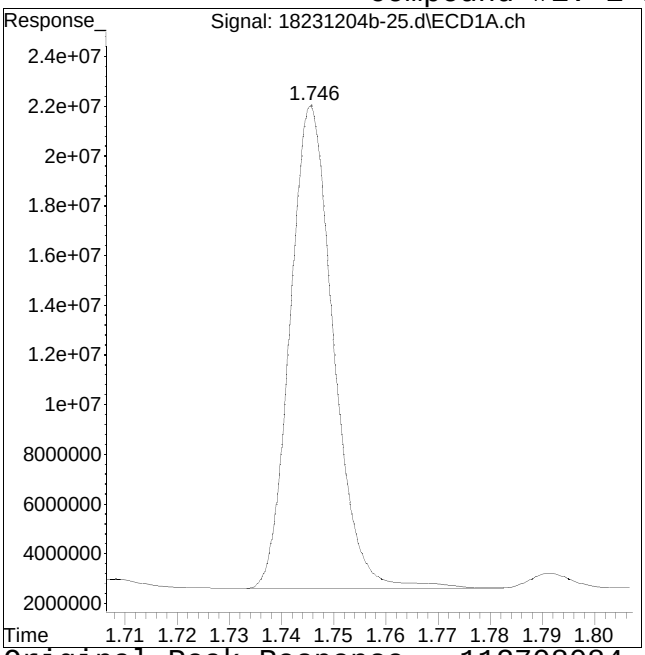
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



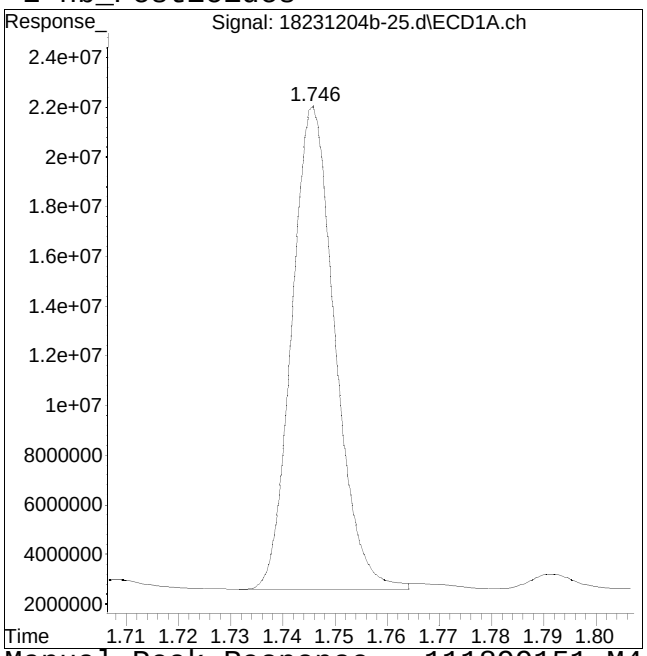
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-25.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:47 pm Instrument : Pest 18
Sample : L2370783-03,42,, Quant Date : 12/4/2023 6:09 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 112708084

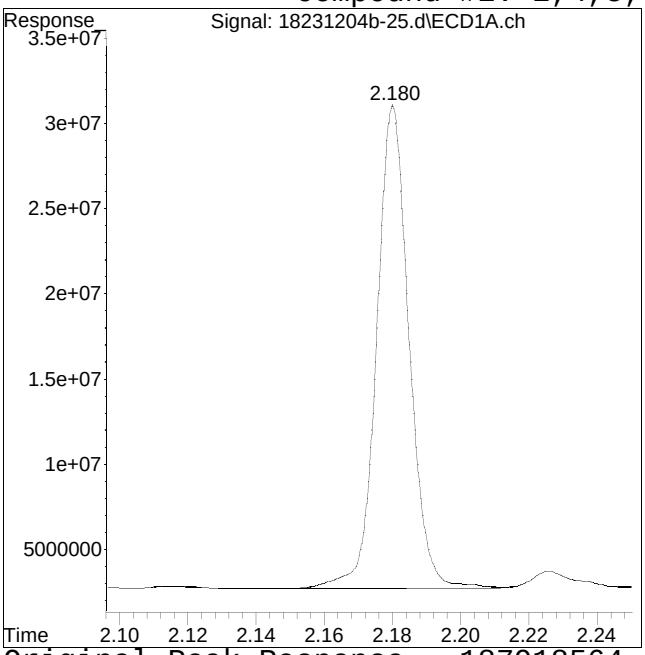


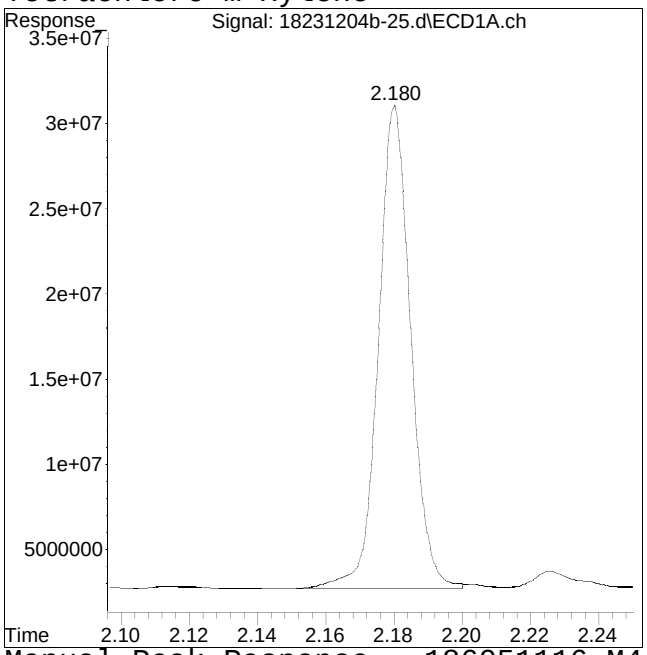
Manual Peak Response = 111899151 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-25.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:47 pm Instrument : Pest 18
Sample : L2370783-03,42,, Quant Date : 12/4/2023 6:09 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



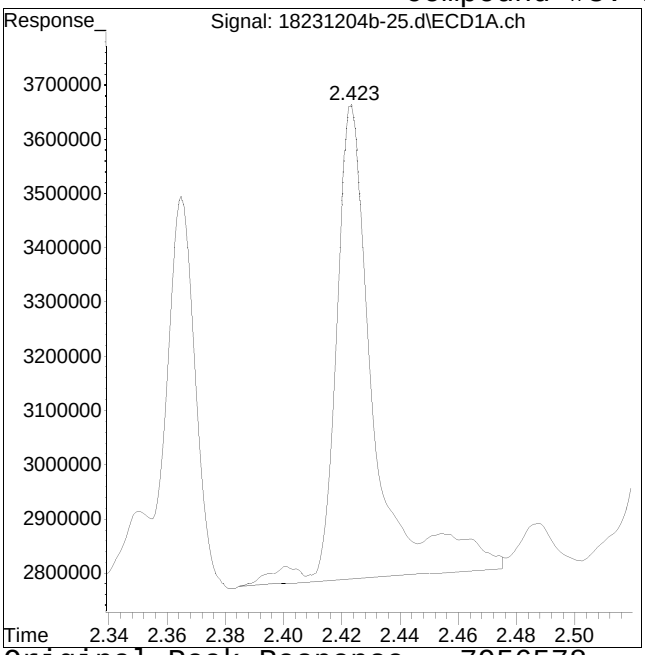


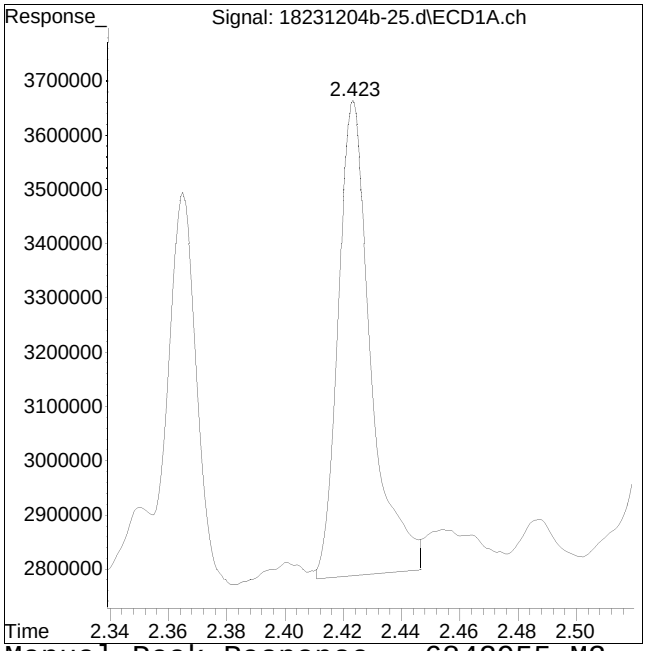
Original Peak Response = 187918564 Manual Peak Response = 186051116 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-25.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:47 pm Instrument : Pest 18
Sample : L2370783-03,42,, Quant Date : 12/4/2023 6:09 pm

Compound #3: Hexachlorobenzene



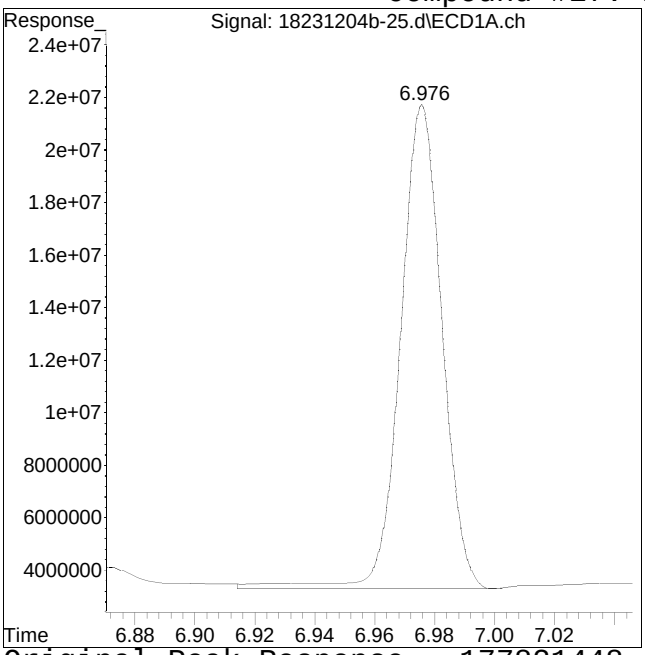


Original Peak Response = 7956578 Manual Peak Response = 6842955 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

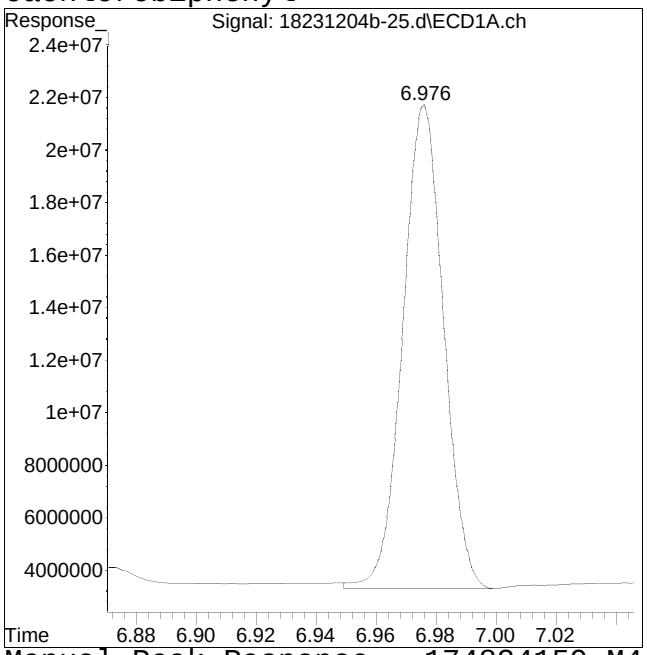
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-25.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:47 pm Instrument : Pest 18
Sample : L2370783-03,42,, Quant Date : 12/4/2023 6:09 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 177821448



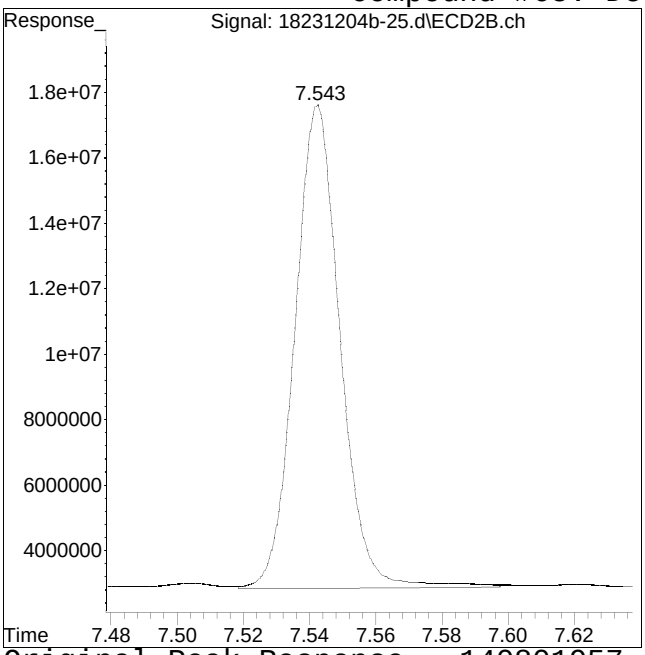
Manual Peak Response = 174824159 M4

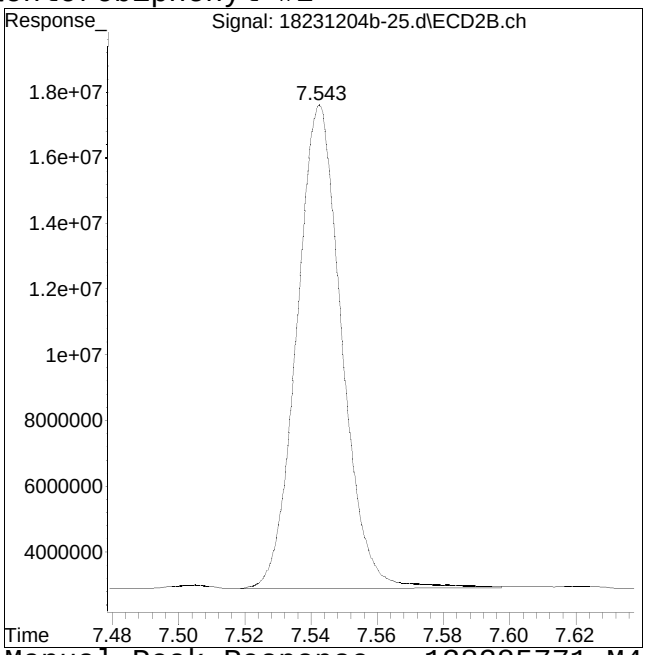
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-25.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:47 pm Instrument : Pest 18
Sample : L2370783-03,42,, Quant Date : 12/4/2023 6:09 pm

Compound #65: Decachlorobiphenyl #2



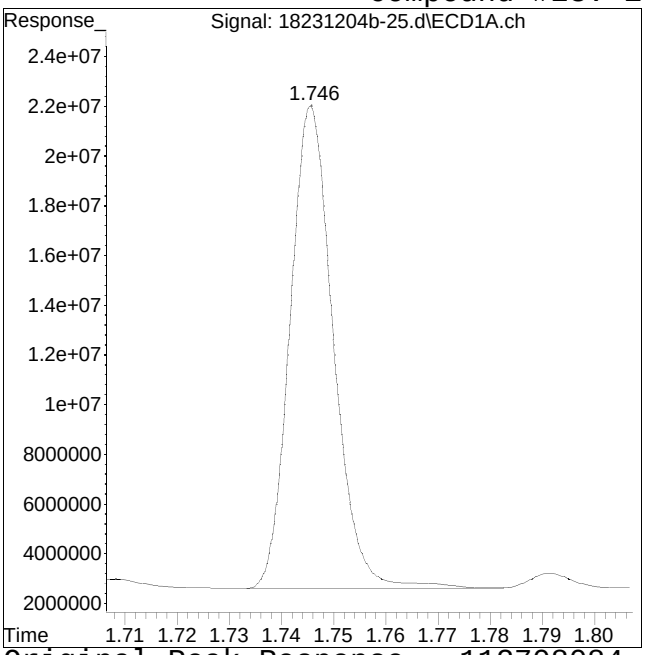


Original Peak Response = 140801957 Manual Peak Response = 138385771 M4
M4 = Poor automated baseline construction.

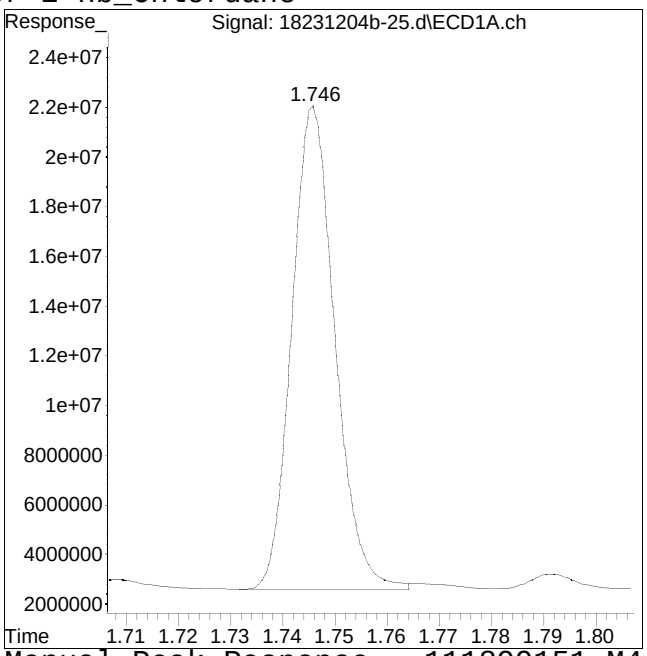
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-25.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:47 pm Instrument : Pest 18
Sample : L2370783-03,42,, Quant Date : 12/4/2023 6:09 pm

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 112708084



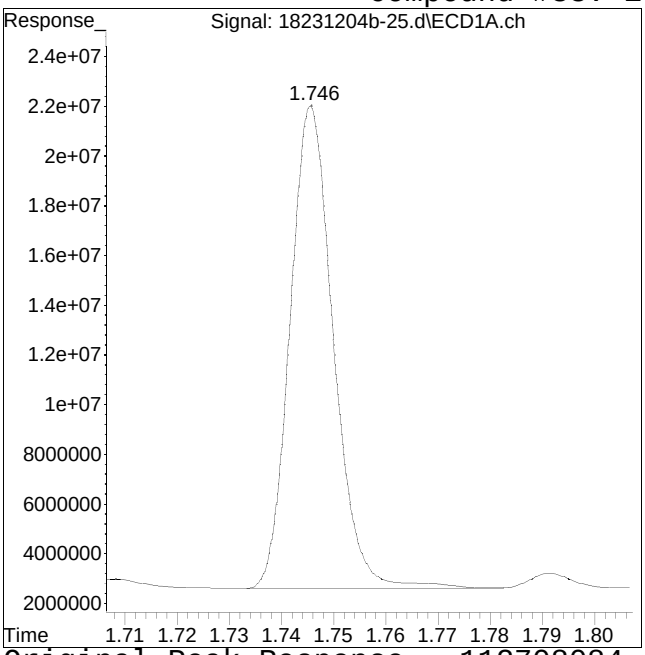
Manual Peak Response = 111899151 M4

M4 = Poor automated baseline construction.

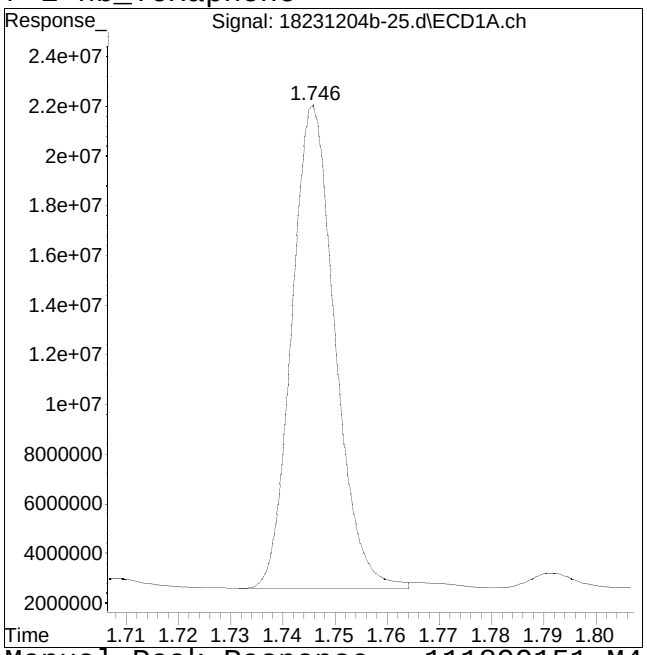
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-25.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:47 pm Instrument : Pest 18
Sample : L2370783-03,42,, Quant Date : 12/4/2023 6:09 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 112708084



Manual Peak Response = 111899151 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:59 pm
Operator : PEST18:peg
Sample : L2370783-05,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 10:17:50 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231204B\18231204b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.745	1.792	117.8E6	91620530	25.000M3	25.000M4
	Standard Area 1 : #1 = 119196188				Recovery =	98.83%	
	Standard Area 1 : #2 = 88406823				Recovery =	103.64%	
28) i	1-br-2-nb_Ch	1.745	1.792	117.8E6	91620530	25.000M3	25.000M4
33) i	1-br-2-nb_To	1.745	1.792	117.8E6	91620530	25.000M3	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.180	2.345	211.1E6	159.5E6	43.093M4	41.196
	Spiked Amount 50.000	Range 30 - 150		Recovery =		86.19%	82.39%
27) s	Decachlorobi	6.976	7.542	207.5E6	162.1E6	44.892M4	44.596M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		89.78%	89.19%
	Target Compounds						
3)	Hexachlorobe	2.423	2.684	7427797	3041490	1.342M4	0.667M4I D
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D.
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D.	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D.
14)	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D.
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:59 pm
Operator : PEST18:peg
Sample : L2370783-05,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 10:17:50 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231204B\18231204b-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D.	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D.	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D.	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D.
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D.
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:59 pm
Operator : PEST18:peg
Sample : L2370783-05,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 10:17:50 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231204B\18231204b-03.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

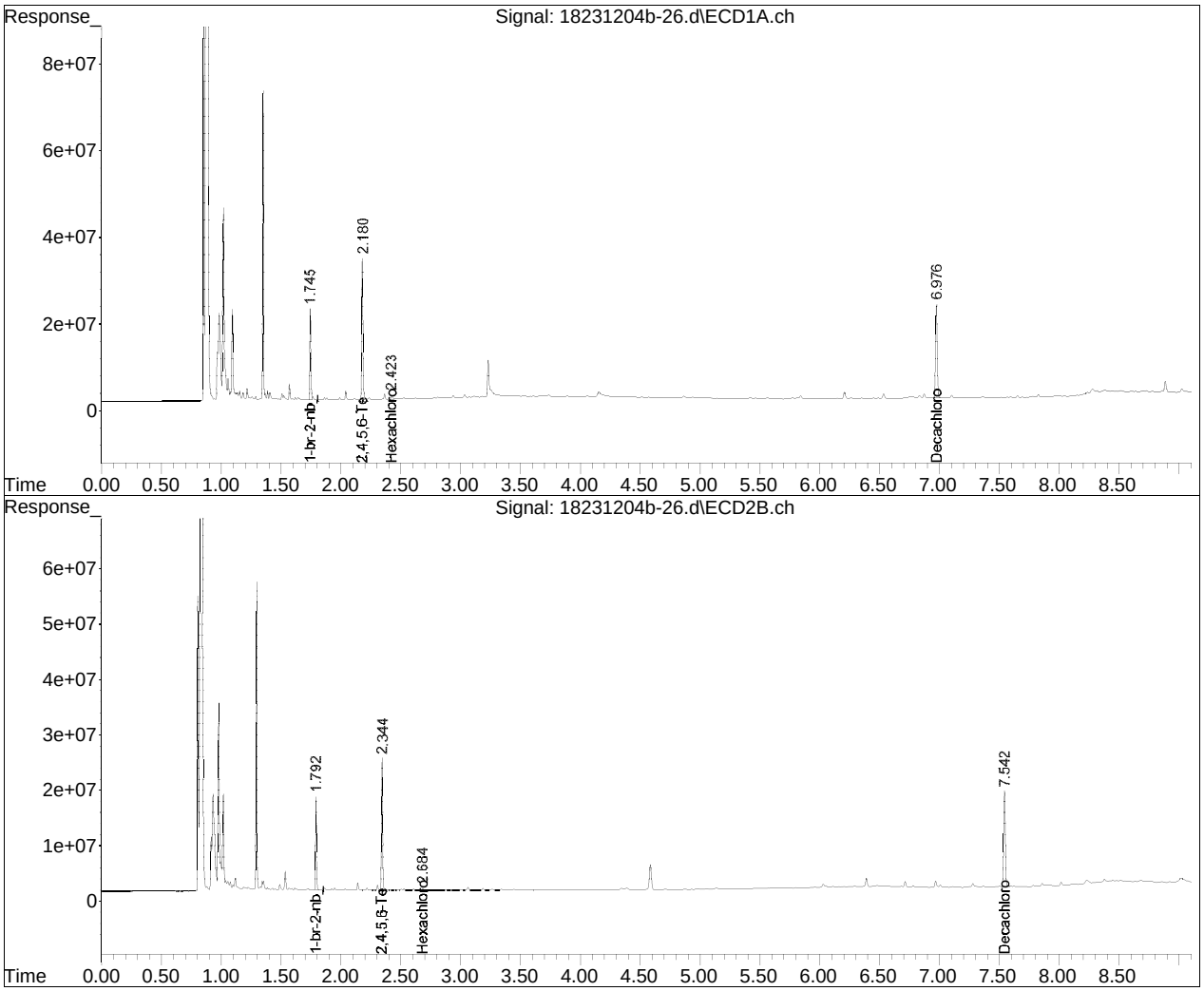
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedB\18231204b-03.d••

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 5:59 pm
Operator : PEST18:peg
Sample : L2370783-05,42,,
Misc : WG1859540,WG1859016,ical20463
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 10:17:50 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

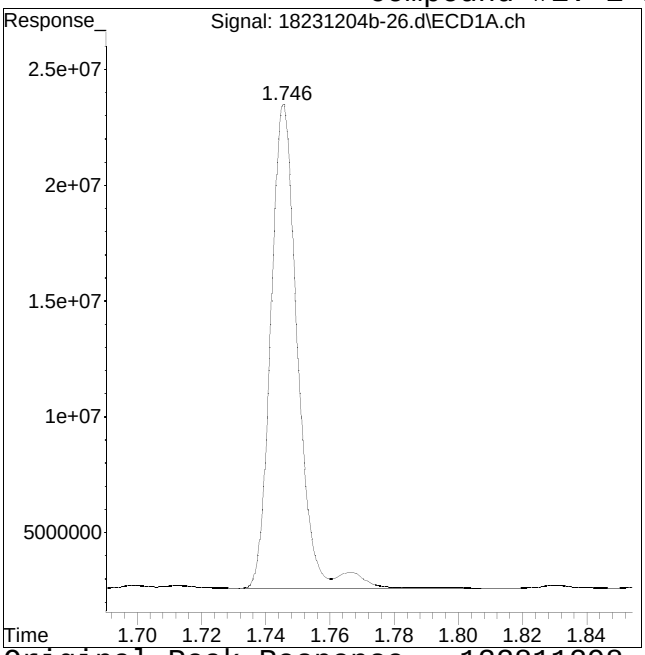
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

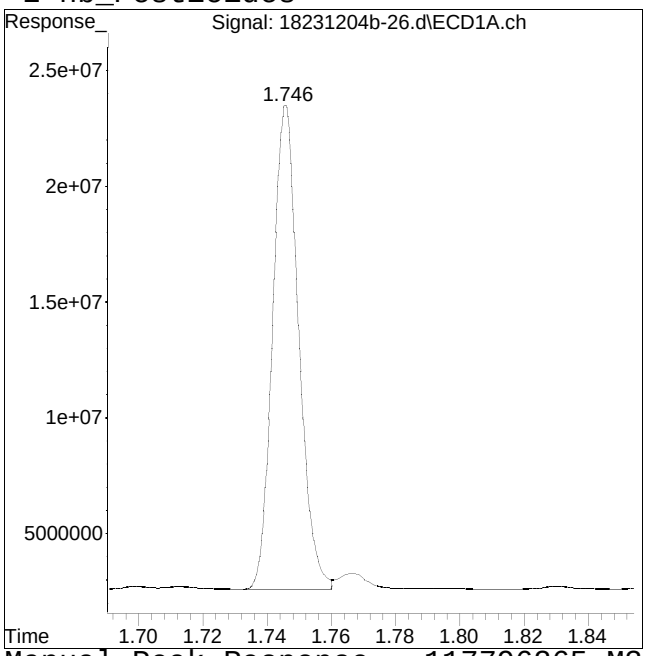


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-26.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:59 pm Instrument : Pest 18
Sample : L2370783-05,42,, Quant Date : 12/4/2023 6:09 pm

Compound #1: 1-br-2-nb_Pesticides



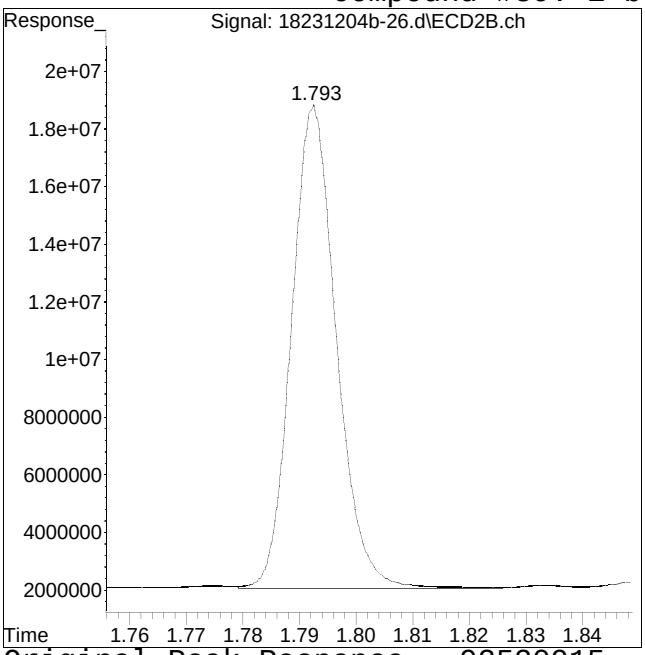


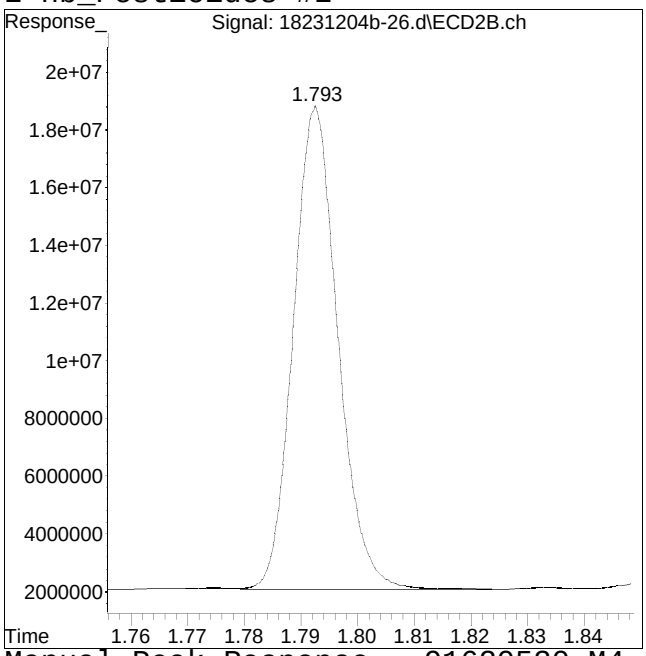
Original Peak Response = 122811298 Manual Peak Response = 117796265 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-26.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:59 pm Instrument : Pest 18
Sample : L2370783-05,42,, Quant Date : 12/4/2023 6:09 pm

Compound #39: 1-br-2-nb_Pesticides #2



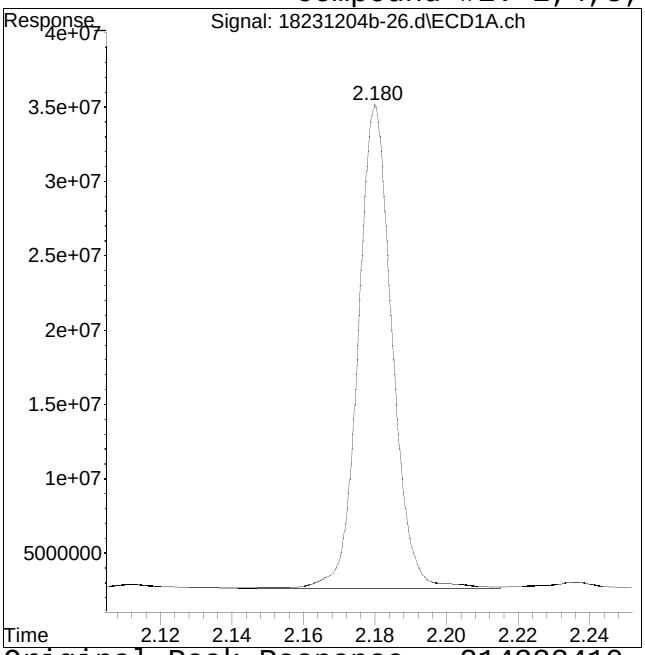


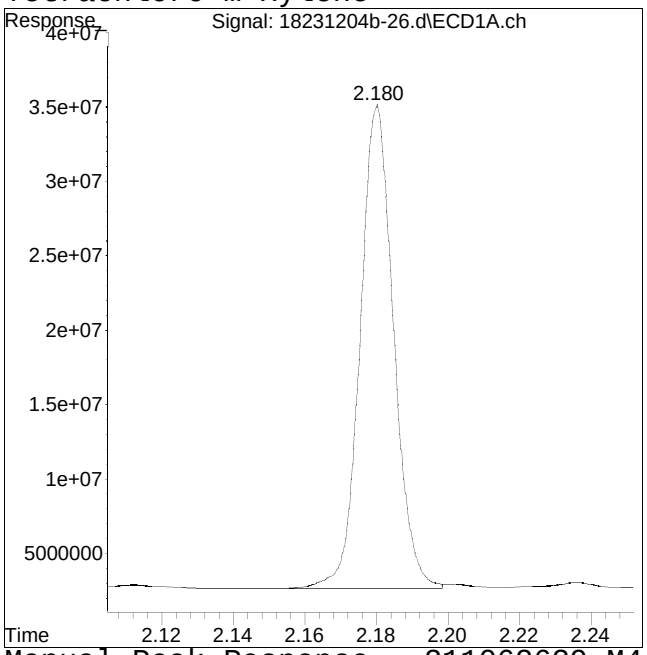
Original Peak Response = 92520915 Manual Peak Response = 91620530 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-26.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:59 pm Instrument : Pest 18
Sample : L2370783-05,42,, Quant Date : 12/4/2023 6:09 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



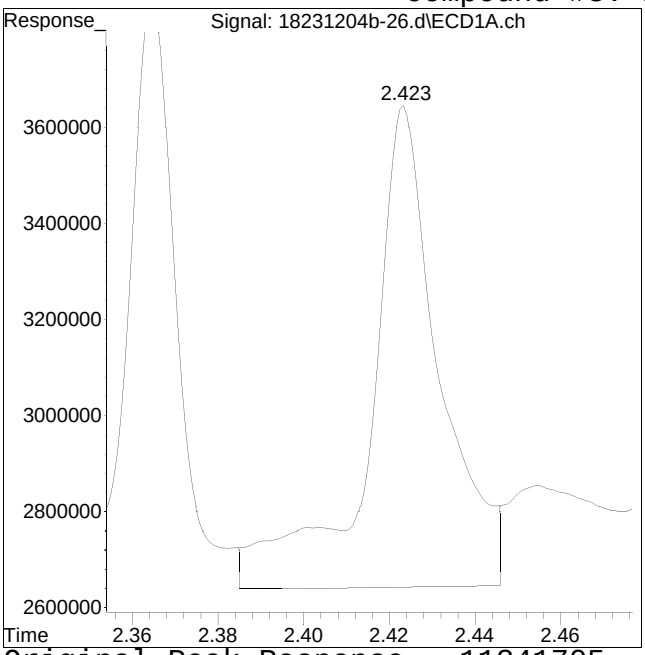


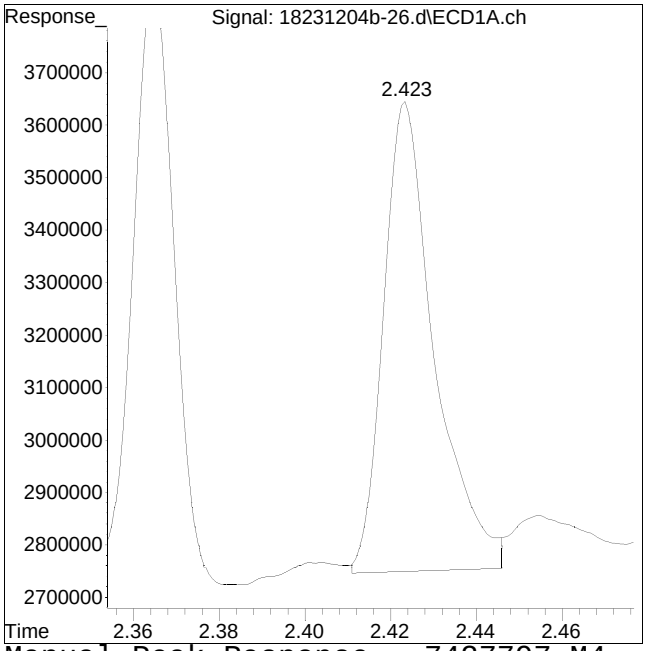
Original Peak Response = 214322410 Manual Peak Response = 211062629 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-26.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:59 pm Instrument : Pest 18
Sample : L2370783-05,42,, Quant Date : 12/4/2023 6:09 pm

Compound #3: Hexachlorobenzene



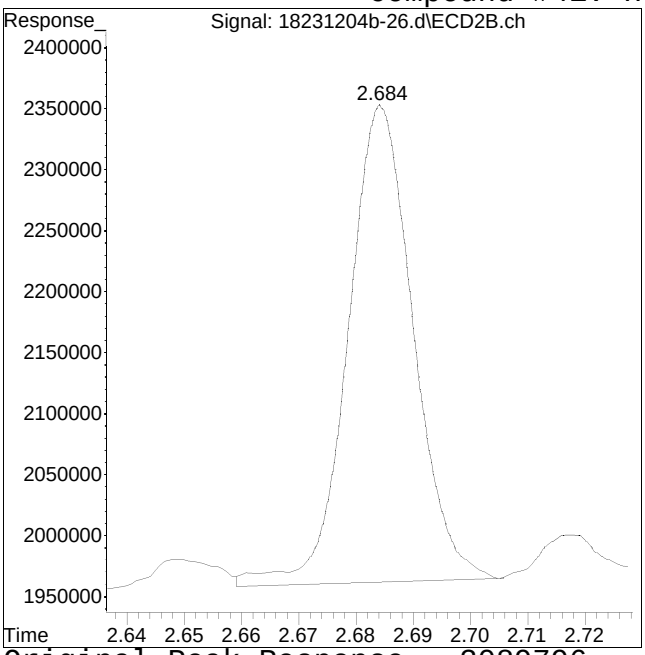


Original Peak Response = 11341705 Manual Peak Response = 7427797 M4
M4 = Poor automated baseline construction.

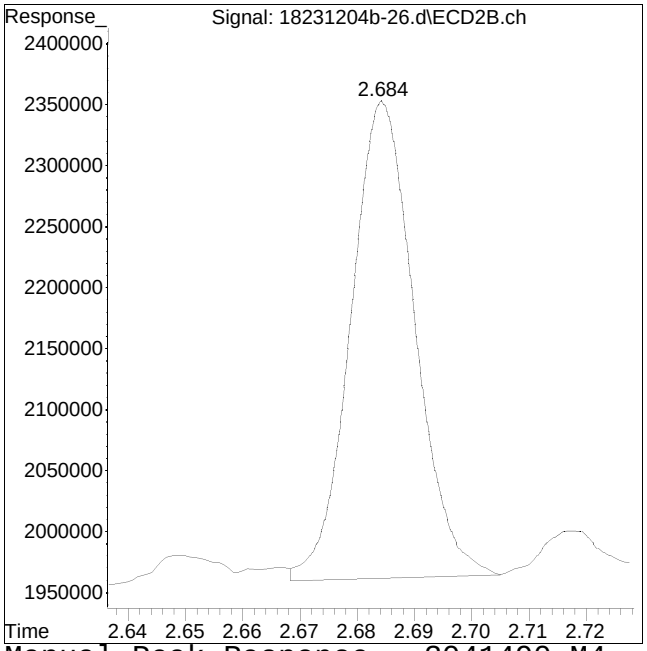
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-26.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:59 pm Instrument : Pest 18
Sample : L2370783-05,42,, Quant Date : 12/4/2023 6:09 pm

Compound #41: Hexachlorobenzene #2



Original Peak Response = 3089796



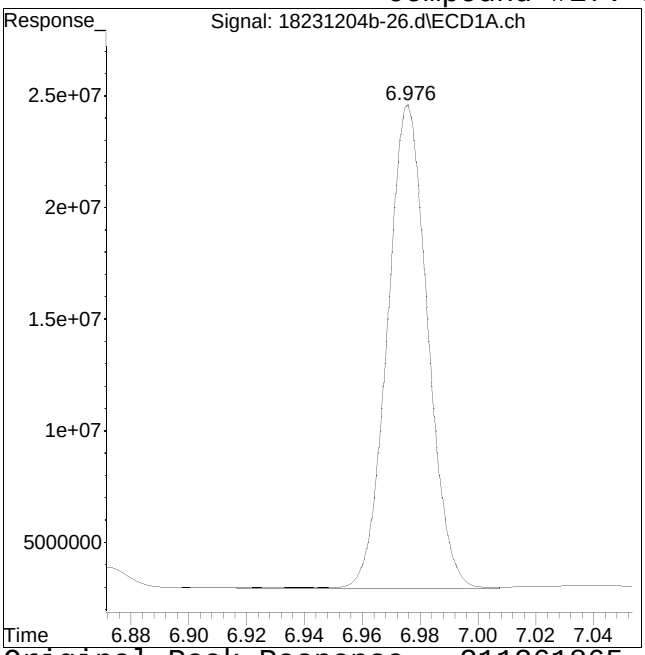
Manual Peak Response = 3041490 M4

M4 = Poor automated baseline construction.

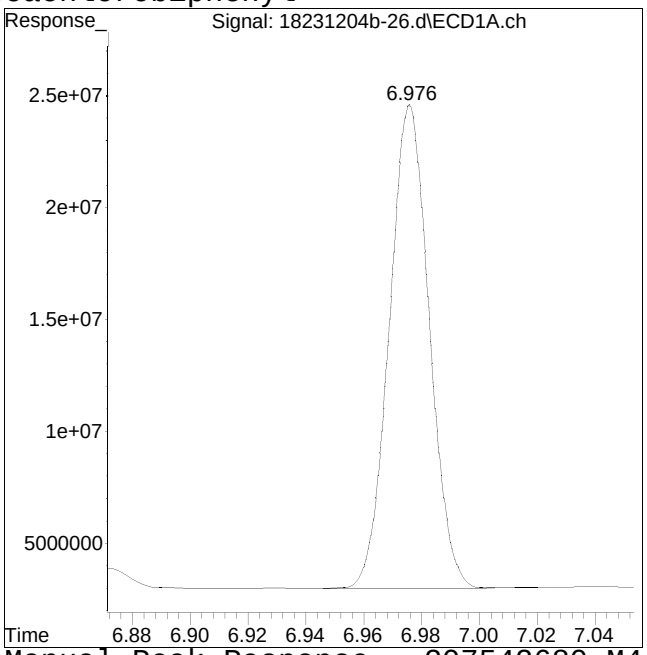
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-26.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:59 pm Instrument : Pest 18
Sample : L2370783-05,42,, Quant Date : 12/4/2023 6:09 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 211261865



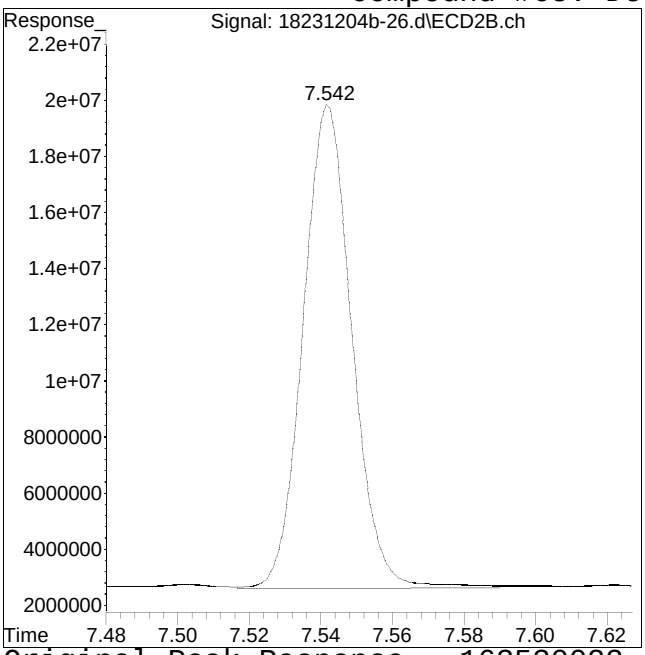
Manual Peak Response = 207542680 M4

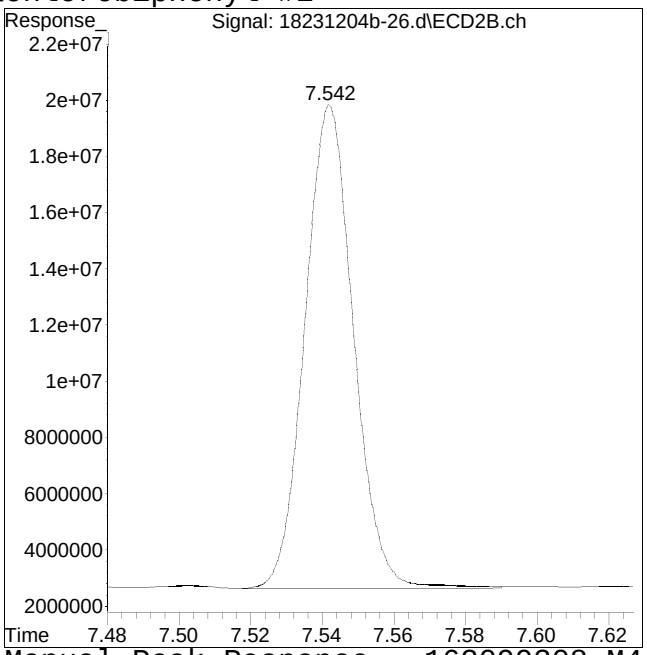
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-26.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:59 pm Instrument : Pest 18
Sample : L2370783-05,42,, Quant Date : 12/4/2023 6:09 pm

Compound #65: Decachlorobiphenyl #2



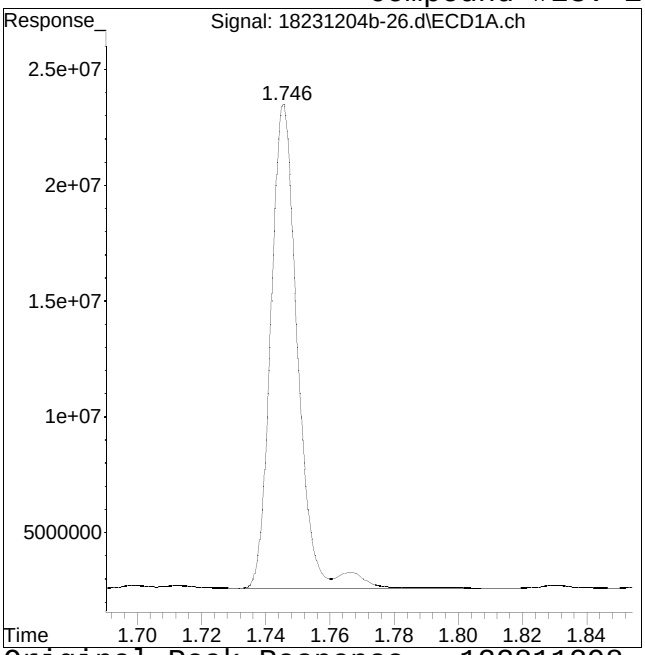


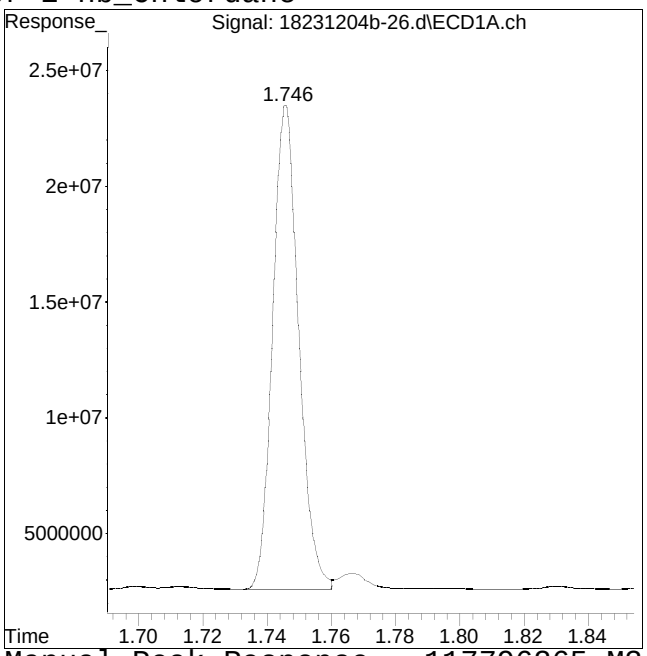
Original Peak Response = 163530022 Manual Peak Response = 162099308 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-26.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:59 pm Instrument : Pest 18
Sample : L2370783-05,42,, Quant Date : 12/4/2023 6:09 pm

Compound #28: 1-br-2-nb_Chlordane



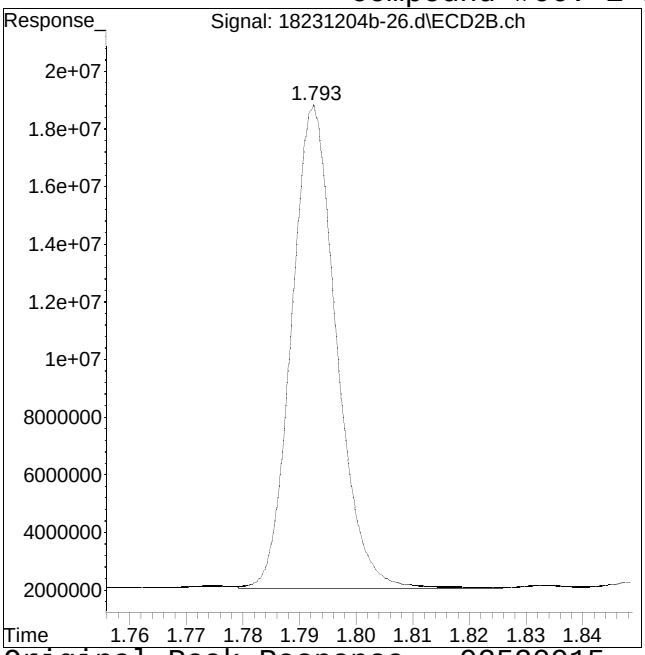


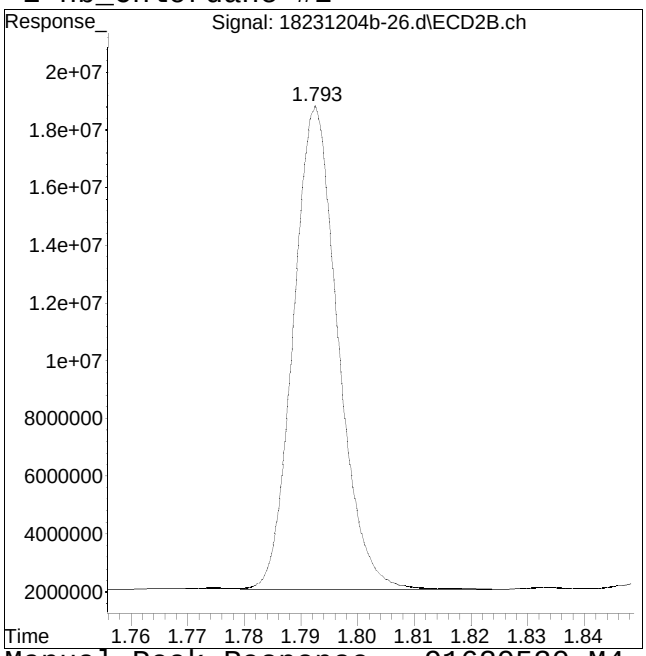
Original Peak Response = 122811298 Manual Peak Response = 117796265 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-26.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:59 pm Instrument : Pest 18
Sample : L2370783-05,42,, Quant Date : 12/4/2023 6:09 pm

Compound #66: 1-br-2-nb_Chlordane #2



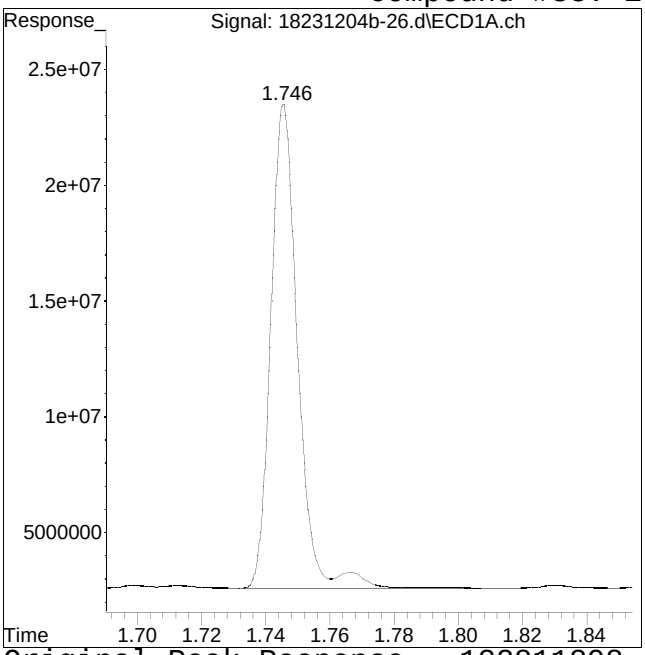


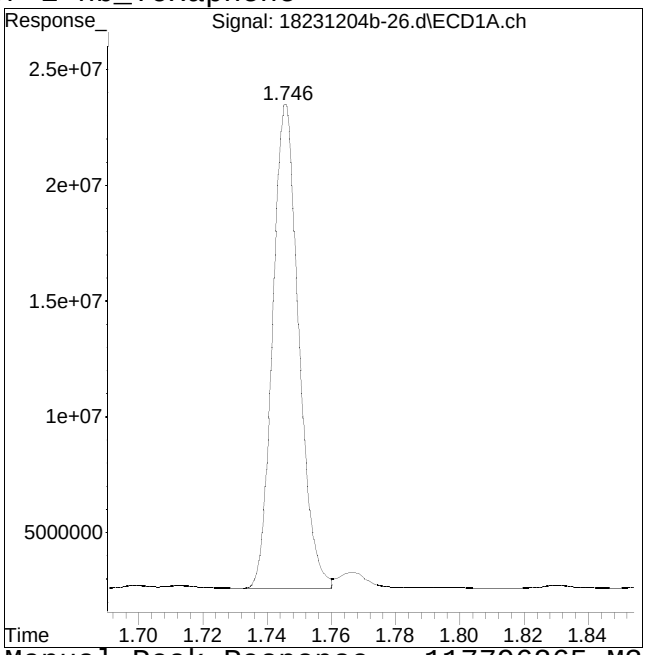
Original Peak Response = 92520915 Manual Peak Response = 91620530 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-26.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:59 pm Instrument : Pest 18
Sample : L2370783-05,42,, Quant Date : 12/4/2023 6:09 pm

Compound #33: 1-br-2-nb_Toxaphene



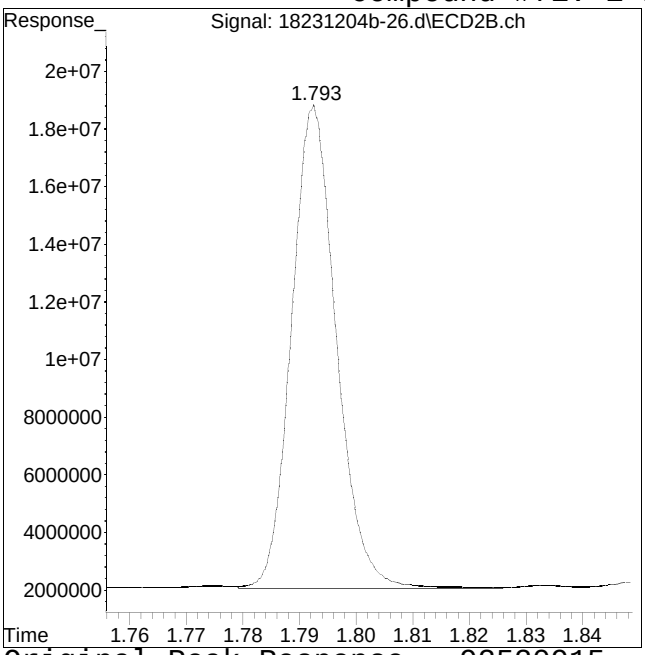


Original Peak Response = 122811298 Manual Peak Response = 117796265 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

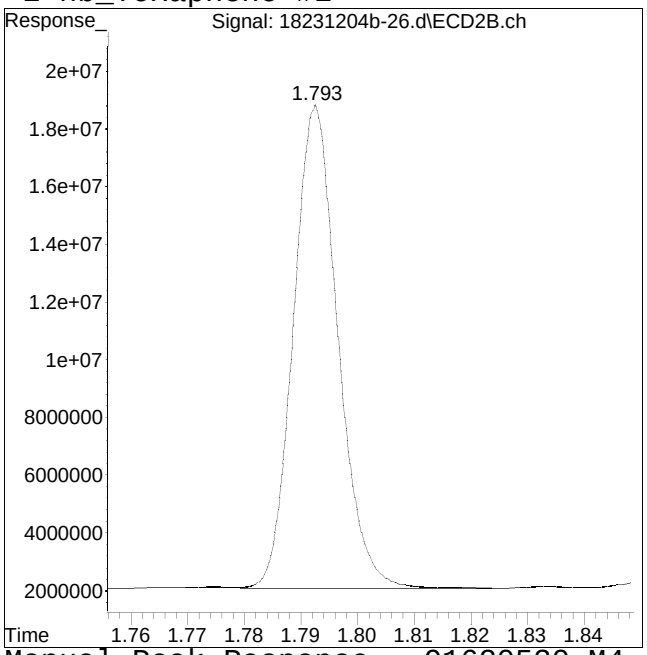
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-26.d Operator : PEST18:peg
Date Inj'd : 12/4/2023 5:59 pm Instrument : Pest 18
Sample : L2370783-05,42,, Quant Date : 12/4/2023 6:09 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 92520915



Manual Peak Response = 91620530 M4

M4 = Poor automated baseline construction.

Pesticides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL20463**
Calibration dates	**: 10/17/23 12:14 10/17/23 16:14**		

Calibration Files

1 =18231017i-03.d 2 =18231017i-04.d 3 =18231017i-05.d 4 =18231017i-15.d 5 =18231017i-16.d
7 =18231017i-17.d 8 =18231017i-23.d 9 =18231017i-24.d 10 =18231017i-20.d 11 =18231017i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	ISTD											
2)	s	2,4,5,6-Tetrachloro-m-xylene		1.030	1.083	1.080	1.090	1.044	1.064	1.011	0.987	0.966	1.039	4.27
3)		Hexachlorobenzene		1.222	1.301	1.283	1.311	1.188	1.140	1.072	1.036	1.015	1.174	9.75
4)		alpha-BHC		1.183	1.277	1.275	1.284	1.299	1.421	1.377	1.360	1.363	1.316	5.46
5)		gamma-BHC (li	1.178	1.127	1.209	1.207	1.217	1.203	1.290	1.252	1.233	1.234	1.215	3.58
6)		beta-BHC		0.632	0.641	0.644	0.642	0.612	0.596	0.560	0.548	0.539	*L	0.999
2)														
7)		delta-BHC		1.181	1.222	1.208	1.225	1.215	1.317	1.281	1.269	1.276	1.244	3.52
8)		Heptachlor		1.340	1.244	1.186	1.213	1.170	1.188	1.165	1.124	1.124	1.195	5.58
9)		Aldrin		1.094	1.160	1.128	1.145	1.113	1.187	1.180	1.137	1.134	1.142	2.63
10)		Alachlor			0.241	0.225	0.224	0.208	0.202	0.190	0.173	0.164	0.203	13.13
11)		Chlorpyrifos			0.735	0.689	0.694	0.650	0.588	0.552	0.500	0.475	0.610	15.77
12)		Heptachlor Ep		1.102	1.185	1.141	1.164	1.112	1.133	1.108	1.059	1.040	1.116	4.17
13)		gamma-Chlorda			1.423	1.129	1.310	1.183	1.031	1.013	0.967	0.968	1.128	14.90
14)		alpha-Chlorda		1.370	1.298	1.231	1.227	1.153	1.157	1.142	1.085	1.078	1.194	8.13
15)		4,4'-DDE		1.074	1.127	1.096	1.125	1.089	1.167	1.176	1.138	1.127	1.124	3.03
16)		Endosulfan I		1.052	1.131	1.091	1.117	1.053	1.067	1.060	1.001	0.961	1.059	5.02
17)		Dieldrin	1.774	1.188	1.107	1.204	1.129	1.126	1.126	1.080	1.065	*L	0.999	
4)														
18)		Endrin	1.176	1.164	1.139	1.158	1.120	1.173	1.173	1.114	1.167	1.154	2.06	
19)		4,4'-DDD	0.877	0.896	0.875	0.885	0.872	0.938	0.959	0.918	0.907	0.903	3.39	
20)		Endosulfan II	1.042	1.065	1.031	1.037	0.990	1.017	1.006	0.952		1.017	3.44	
21)		4,4'-DDT		0.567	0.547	0.545	0.650	0.825	0.898	0.898	0.927	*L	0.998	
8)														
22)		Endrin Aldehyde	0.904	0.953	0.880	0.894	0.860	0.858	0.874	0.835	0.801	*L	0.998	
9)														
23)		Methoxychlor		0.348	0.324	0.373	0.384	0.453	0.487	0.467	0.461	0.412	15.07	
24)		Mirex		1.138	1.082	1.083	0.964	0.889	0.875	0.794	0.762	0.948	14.91	
25)		Endosulfan Su	0.911	1.013	0.982	0.983	0.940	0.962	0.967	0.912	0.880	0.950	4.48	
26)		Endrin Ketone	0.899	0.912	0.879	0.913	0.898	0.984	1.016	0.974	0.943	0.935	4.97	
27)	s	Decachlorobip		1.545	1.350	1.353	1.127	0.998	1.023	0.922		*L	0.997	
8)														
28)	i	1-br-2-nb_Chlordane	ISTD											
29)	l1	chlordane-1		0.073	0.066	0.060	0.060	0.060	0.060	0.058		*L	0.999	
7)														
30)	l1	chlordane-3		0.051	0.051	0.047	0.044	0.042	0.041	0.039		*L	0.997	

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL20463**
Calibration dates	**: 10/17/23 12:14 10/17/23 16:14**		

Calibration Files

1 =18231017i-03.d 2 =18231017i-04.d 3 =18231017i-05.d 4 =18231017i-15.d 5 =18231017i-16.d
7 =18231017i-17.d 8 =18231017i-23.d 9 =18231017i-24.d 10 =18231017i-20.d 11 =18231017i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
9)														
31)	l1	chlordane-4			0.217	0.171	0.145	0.143	0.140	0.140	0.136		*L	0.999
8)														
32)	l1	chlordane-5			0.240	0.231	0.216	0.221	0.215	0.216	0.210		*L	0.999
8)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.029				0.038	0.034			*L	0.998
1)														
35)	l2	toxaphene-2			0.034				0.041	0.038			*L	0.999
3)														
36)	l2	toxaphene-3			0.042				0.040	0.038			*L	0.999
4)														
37)	l2	toxaphene-4			0.037				0.033	0.032			*L	0.999
7)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL20463**
Calibration dates	**: 10/17/23 12:14 10/17/23 16:14**		

Signal #2 Calibration Files

1 =18231017i-03.d 2 =18231017i-04.d 3 =18231017i-05.d 4 =18231017i-15.d 5 =18231017i-16.d
7 =18231017i-17.d 8 =18231017i-23.d 9 =18231017i-24.d 10 =18231017i-20.d 11 =18231017i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra		1.054	1.100	1.088	1.097	1.052	1.080	1.028	1.009	1.002	1.057	3.53
3)		Hexachloroben		1.357	1.390	1.355	1.397	1.254	1.183	1.114	1.079	1.067	1.244	10.96
4)		alpha-BHC		1.259	1.307	1.308	1.312	1.318	1.442	1.401	1.392	1.410	1.350	4.60
5)		gamma-BHC (li	.312	1.190	1.271	1.247	1.251	1.230	1.311	1.276	1.266	1.278	1.263	2.88
6)		beta-BHC		0.625	0.673	0.652	0.656	0.624	0.607	0.574	0.564	0.563	*L	0.999
5)														
7)		delta-BHC		1.220	1.271	1.224	1.247	1.228	1.335	1.301	1.297	1.318	1.271	3.41
8)		Heptachlor		1.314	1.321	1.250	1.266	1.204	1.245	1.218	1.184	1.205	1.245	3.88
9)		Aldrin		1.126	1.209	1.159	1.178	1.148	1.226	1.216	1.181	1.201	1.183	2.84
10)		Alachlor			0.214	0.200	0.200	0.189	0.184	0.172	0.159	0.152	0.184	11.70
11)		Chlorpyrifos			0.773	0.742	0.736	0.671	0.621	0.584	0.531	0.519	0.647	15.22
12)		Heptachlor Ep	1.166	1.256	1.219	1.194	1.159	1.166	1.149	1.103	1.108	1.169		4.20
13)		gamma-Chlorda			1.174	1.096	1.107	1.042	1.048	1.040	1.002	1.023	1.066	5.22
14)		alpha-Chlorda	1.347	1.304	1.232	1.239	1.174	1.178	1.163	1.113	1.125	1.208		6.55
15)		4,4'-DDE	1.139	1.201	1.148	1.153	1.142	1.200	1.214	1.162	1.178	1.171		2.42
16)		Endosulfan I	1.110	1.179	1.107	1.127	1.079	1.109	1.096	1.053	1.031	1.099		3.88
17)		Dieldrin	1.107	1.174	1.107	1.129	1.079	1.133	1.138	1.096	1.106	1.119		2.51
18)		Endrin	1.131	1.171	1.128	1.118	1.111	1.148	1.150	1.103	1.099	1.129		2.14
19)		4,4'-DDD	1.005	0.945	0.911	0.901	0.901	0.940	0.958	0.922	0.984	0.941		3.90
20)		Endosulfan II	1.086	1.101	1.065	1.063	1.013	1.017	1.004	0.957		1.038		4.68
21)		4,4'-DDT			0.722	0.709	0.735	0.741	0.872	0.927	0.915	0.951	0.822	12.67
22)		Endrin Aldehyde	1.551	1.089	0.932	1.000	0.947	0.856	0.861	0.829	0.818	*L		0.999
6)														
23)		Methoxychlor			0.451	0.419	0.443	0.440	0.480	0.502	0.479	0.484	0.462	6.10
24)		Mirex			1.102	1.021	1.034	0.939	0.836	0.815	0.749	0.726	*L	0.997
6)														
25)		Endosulfan Su	1.223	1.089	1.001	1.032	0.959	0.934	0.925	0.886	0.873	0.991		11.22
26)		Endrin Ketone	1.006	0.987	0.938	0.957	0.941	0.990	1.010	0.977	0.972	0.975		2.66
27)	s	Decachlorobip			1.153	1.081	1.105	0.978	0.885	0.911	0.831		0.992	12.41
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.044	0.041	0.037	0.037	0.037	0.037	0.036		*L	0.999
6)														
30)	l1	chlordane-3			0.046	0.044	0.042	0.040	0.038	0.037	0.035		*L	0.998
2)														
31)	l1	chlordane-4			0.140	0.143	0.130	0.136	0.134	0.135	0.132		*L	0.999

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL20463**
Calibration dates	**: 10/17/23 12:14 10/17/23 16:14**		

Signal #2 Calibration Files

1 =18231017i-03.d 2 =18231017i-04.d 3 =18231017i-05.d 4 =18231017i-15.d 5 =18231017i-16.d
7 =18231017i-17.d 8 =18231017i-23.d 9 =18231017i-24.d 10 =18231017i-20.d 11 =18231017i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
9)														
32)	l1	chlordane-5					0.123	0.117	0.107	0.110	0.108	0.109	0.106	*L	0.999
9)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1					0.029			0.031	0.029		*L	0.999
4)														
35)	l2	toxaphene-2					0.054			0.047	0.045		*L	0.999
5)														
36)	l2	toxaphene-3					0.050			0.034	0.033		*L	0.999
6)														
37)	l2	toxaphene-4					0.030			0.028	0.028		*L	0.999
9)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST10**	**Ical Ref**	**: ICAL20620**
Calibration dates	**: 11/13/23 16:45 11/13/23 20:36**		

Calibration Files

1 =10231113i-03.d 2 =10231113i-04.d 3 =10231113i-22.d 4 =10231113i-15.d 5 =10231113i-16.d

7 =10231113i-17.d 8 =10231113i-23.d 9 =10231113i-24.d 10 =10231113i-20.d 11 =10231113i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetrachloro-m-xylene		1.100	1.174	1.121	1.224	1.009	0.954	0.957	0.953	0.909	1.045	10.79
3)	t	Hexachlorobenzene		1.236	1.227	1.181	1.215	1.099	1.029	1.029	1.031	1.018	1.118	8.53
4)	t	alpha-BHC		1.366	1.378	1.363	1.406	1.347	1.430	1.475	1.516	1.516	1.422	4.64
5)	t	gamma-BHC (li	1.367	1.308	1.334	1.317	1.353	1.279	1.313	1.353	1.383	1.379	1.339	2.54
6)	t	beta-BHC		0.694	0.676	0.659	0.679	0.607	0.559	0.564	0.565	0.569	0.619	9.29
7)	t	delta-BHC		1.379	1.339	1.312	1.335	1.283	1.343	1.401	1.451	1.479	1.369	4.73
8)	t	Heptachlor		1.357	1.391	1.361	1.356	1.278	1.254	1.281	1.271	1.220	1.308	4.52
9)	t	Aldrin		1.183	1.250	1.215	1.210	1.153	1.171	1.208	1.219	1.182	1.199	2.47
10)	t	Alachlor		0.308	0.307	0.299	0.307	0.287	0.264	0.257	0.237		0.283	9.60
11)	t	Chlorpyrifos			0.737	0.727	0.708	0.649	0.563	0.547	0.516		0.635	14.56
12)	t	Heptachlor Epoxide		1.238	1.282	1.248	1.246	1.153	1.123	1.137	1.134	1.087	1.183	5.93
13)	t	gamma-Chlordane (trans)		1.162	1.145	1.124	1.091	1.025	1.008	1.040	1.063	1.050	1.079	5.09
14)	t	alpha-Chlordane (cis)		1.336	1.404	1.352	1.346	1.191	1.144	1.177	1.191	1.164	1.256	8.02
15)	t	4,4'-DDE		1.137	1.194	1.175	1.137	1.107	1.128	1.189	1.202	1.166	1.160	2.87
16)	t	Endosulfan I		1.188	1.236	1.210	1.185	1.115	1.075	1.100	1.095	1.049	1.139	5.81
17)	t	Dieldrin		1.175	1.210	1.190	1.171	1.117	1.118	1.163	1.175	1.143	1.162	2.69
18)	t	Endrin		1.211	1.271	1.254	1.221	1.183	1.171	1.208	1.206	1.163	1.210	2.96
19)	t	4,4'-DDD		0.924	0.977	0.984	0.938	0.912	0.924	0.975	0.990	0.973	0.955	3.17
20)	t	Endosulfan II		1.143	1.196	1.160	1.137	1.074	1.040	1.069	1.065	1.030	1.102	5.32
21)	t	4,4'-DDT		1.084	1.155	1.146	1.049	1.052	1.048	1.110	1.120	1.092	1.095	3.73
22)	t	Endrin Aldehyde		0.939	0.957	0.934	0.909	0.878	0.869	0.906	0.892	0.851	0.904	3.87
23)	t	Methoxychlor		0.694	0.719	0.721	0.660	0.637	0.576	0.583	0.557	0.519	0.629	11.78
24)	t	Mirex			1.160	1.142	1.048	0.996	0.872	0.884	0.872		0.996	12.60
25)	t	Endosulfan Sulfate		1.156	1.166	1.169	1.109	1.066	1.003	1.029	1.025	0.985	1.079	6.79
26)	t	Endrin Ketone		1.299	1.345	1.321	1.266	1.222	1.169	1.187	1.164	1.097	1.230	6.75
27)	s	Decachlorobiphenyl			1.190	1.126	1.037	0.995	0.897	0.897	0.888	0.842	0.984	12.72
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.045	0.042	0.041	0.039	0.040	0.040	0.040		*L	0.999
9)														
30)	l1	chlordane-3			0.073	0.072	0.070	0.069	0.071	0.071	0.068		*L	0.999
7)														
31)	l1	chlordane-4			0.054	0.050	0.050	0.046	0.046	0.045	0.043		*L	0.999
1)														
32)	l1	chlordane-5			0.181	0.159	0.162	0.157	0.165	0.165	0.161		*L	0.999
8)														

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST10**	**Ical Ref**	**: ICAL20620**
Calibration dates	**: 11/13/23 16:45 11/13/23 20:36**		

Calibration Files

1 =10231113i-03.d 2 =10231113i-04.d 3 =10231113i-22.d 4 =10231113i-15.d 5 =10231113i-16.d

7 =10231113i-17.d 8 =10231113i-23.d 9 =10231113i-24.d 10 =10231113i-20.d 11 =10231113i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33) i	1-br-2-nb_Toxaphene	----------ISTD----------											
34) l2	toxaphene-1			0.041				0.047	0.045			*L	0.999
8)													
35) l2	toxaphene-2			0.044				0.045	0.044			*L	1.000
0)													
36) l2	toxaphene-4			0.051				0.039	0.040			*L	0.999
9)													
37) l2	toxaphene-5			0.057				0.046	0.046			*L	1.000
0)													

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST10**	**Ical Ref**	**: ICAL20620**
Calibration dates	**: 11/13/23 16:45 11/13/23 20:36**		

Signal #2 Calibration Files

1 =10231113i-03.d 2 =10231113i-04.d 3 =10231113i-22.d 4 =10231113i-15.d 5 =10231113i-16.d
7 =10231113i-17.d 8 =10231113i-23.d 9 =10231113i-24.d 10 =10231113i-20.d 11 =10231113i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra			1.130	1.124	1.094	1.008	1.016	0.993	0.989	1.020	0.998	1.041	5.55
3)	t	Hexachloroben			1.350	1.377	1.316	1.226	1.181	1.117	1.111	1.131	1.118	1.214	8.89
4)	t	alpha-BHC			1.466	1.489	1.453	1.369	1.416	1.533	1.600	1.679	1.697	1.522	7.53
5)	t	gamma-BHC (li		1.506	1.483	1.465	1.418	1.332	1.355	1.417	1.462	1.531	1.543	1.451	4.87
6)	t	beta-BHC			0.777	0.768	0.743	0.687	0.671	0.631	0.626	0.637	0.635	0.686	8.94
7)	t	delta-BHC			1.428	1.432	1.418	1.317	1.352	1.452	1.516	1.610	1.644	1.463	7.46
8)	t	Heptachlor			1.636	1.642	1.588	1.469	1.469	1.463	1.487	1.519	1.456	1.525	5.00
9)	t	Aldrin			1.460	1.483	1.435	1.304	1.331	1.364	1.408	1.453	1.408	1.405	4.32
10)	t	Alachlor		0.221	0.226	0.219	0.212	0.221	0.203	0.192	0.182		0.209	7.60	
11)	t	Chlorpyrifos			1.015	0.966	0.867	0.850	0.744	0.714	0.682		*L	0.998	
8)															
12)	t	Heptachlor Ep		1.608	1.650	1.553	1.431	1.389	1.345	1.363	1.382	1.325	1.450	8.39	
13)	t	gamma-Chlorda		1.367	1.405	1.352	1.219	1.229	1.204	1.238	1.279	1.256	1.283	5.69	
14)	t	alpha-Chlorda		1.610	1.606	1.556	1.376	1.385	1.349	1.377	1.417	1.383	1.451	7.40	
15)	t	4,4'-DDE		1.348	1.398	1.371	1.221	1.273	1.328	1.391	1.438	1.390	1.351	5.03	
16)	t	Endosulfan I		1.515	1.517	1.468	1.313	1.316	1.278	1.294	1.317	1.261	1.364	7.64	
17)	t	Dieldrin		1.435	1.437	1.416	1.264	1.295	1.317	1.353	1.395	1.350	1.362	4.59	
18)	t	Endrin		1.487	1.532	1.465	1.310	1.344	1.365	1.406	1.440	1.384	1.415	5.10	
19)	t	4,4'-DDD		1.136	1.171	1.135	0.995	1.042	1.083	1.134	1.174	1.144	1.113	5.45	
20)	t	Endosulfan II		1.530	1.469	1.422	1.271	1.271	1.233	1.246	1.265	1.217	1.325	8.77	
21)	t	4,4'-DDT		1.338	1.358	1.352	1.172	1.203	1.235	1.281	1.331	1.287	1.284	5.28	
22)	t	Endrin Aldehyde		1.187	1.139	1.117	0.995	1.026	1.026	1.051	1.066	1.013	*L	0.999	
4)															
23)	t	Methoxychlor		0.908	0.861	0.875	0.708	0.723	0.669	0.667	0.662	0.622	0.744	14.47	
24)	t	Mirex			1.513	1.476	1.234	1.212	1.043	1.023	1.015		*L	0.999	
6)															
25)	t	Endosulfan Su		1.489	1.465	1.410	1.234	1.241	1.187	1.202	1.231	1.173	1.292	9.68	
26)	t	Endrin Ketone		1.588	1.581	1.541	1.331	1.365	1.319	1.339	1.355	1.292	1.412	8.53	
27)	s	Decachlorobip			1.504	1.465	1.188	1.201	1.056	1.050	1.051	0.997	*L	0.999	
2)															
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1			0.047	0.049	0.047	0.045	0.045	0.045	0.045		0.046	3.32	
30)	l1	chlordane-3			0.061	0.061	0.055	0.051	0.050	0.049	0.046		0.053	10.90	
31)	l1	chlordane-4			0.187	0.186	0.172	0.174	0.179	0.182	0.179		0.180	3.10	
32)	l1	chlordane-5			0.160	0.154	0.141	0.139	0.142	0.144	0.141		0.146	5.28	

Initial Calibration Summary
Form 6
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**
Instrument ID	**: PEST10**	**Ical Ref**	**: ICAL20620**
Calibration dates	**: 11/13/23 16:45 11/13/23 20:36**		

Signal #2 Calibration Files

1 =10231113i-03.d 2 =10231113i-04.d 3 =10231113i-22.d 4 =10231113i-15.d 5 =10231113i-16.d
7 =10231113i-17.d 8 =10231113i-23.d 9 =10231113i-24.d 10 =10231113i-20.d 11 =10231113i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.020				0.029	0.028			*L	0.999
9)														
35)	l2	toxaphene-2			0.044				0.042	0.041			*L	0.999
8)														
36)	l2	toxaphene-4			0.071				0.052	0.051			*L	0.999
9)														
37)	l2	toxaphene-5			0.040				0.048	0.047			*L	0.999
9)														

Response Factor Report Pest 18

Method Path : I:\PEST\Pest18\2023\231017ical\
Method File : pest18_2023_10_17_ugL_ICAL.m
Title : pest
Last Update : Thu Oct 19 10:43:47 2023
Response Via : Initial Calibration

Calibration Files
1 =18231017i-03.d 2 =18231017i-04.d 3 =18231017i-05.d 4 =18231017i-15.d 5 =18231017i-16.d
7 =18231017i-17.d 8 =18231017i-23.d 9 =18231017i-24.d 10 =18231017i-20.d 11 =18231017i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.030	1.083	1.080	1.090	1.044	1.064	1.011	0.987	0.966	1.039	4.27
3)		Hexachloroben...		1.222	1.301	1.283	1.311	1.188	1.140	1.072	1.036	1.015	1.174	9.75
4)		alpha-BHC		1.183	1.277	1.275	1.284	1.299	1.421	1.377	1.360	1.363	1.316	5.46
5)		gamma-BHC (li...	1.178	1.127	1.209	1.207	1.217	1.203	1.290	1.252	1.233	1.234	1.215	3.58
6)		beta-BHC		0.632	0.641	0.644	0.642	0.612	0.596	0.560	0.548	0.539	*L	0.999
2														
7)		delta-BHC		1.181	1.222	1.208	1.225	1.215	1.317	1.281	1.269	1.276	1.244	3.52
8)		Heptachlor		1.340	1.244	1.186	1.213	1.170	1.188	1.165	1.124	1.124	1.195	5.58
9)		Aldrin		1.094	1.160	1.128	1.145	1.113	1.187	1.180	1.137	1.134	1.142	2.63
10)		Alachlor			0.241	0.225	0.224	0.208	0.202	0.190	0.173	0.164	0.203	13.13
11)		Chlorpyrifos			0.735	0.689	0.694	0.650	0.588	0.552	0.500	0.475	0.610	15.77
12)		Heptachlor Ep...		1.102	1.185	1.141	1.164	1.112	1.133	1.108	1.059	1.040	1.116	4.17
13)		gamma-Chlorda...			1.423	1.129	1.310	1.183	1.031	1.013	0.967	0.968	1.128	14.90
14)		alpha-Chlorda...		1.370	1.298	1.231	1.227	1.153	1.157	1.142	1.085	1.078	1.194	8.13
15)		4,4'-DDE		1.074	1.127	1.096	1.125	1.089	1.167	1.176	1.138	1.127	1.124	3.03
16)		Endosulfan I		1.052	1.131	1.091	1.117	1.053	1.067	1.060	1.001	0.961	1.059	5.02

Response Factor Report Pest 18

Method Path : I:\PEST\Pest18\2023\231017ical\
Method File : pest18_2023_10_17_ugL_ICAL.m
Title : pest
Last Update : Thu Oct 19 10:43:47 2023
Response Via : Initial Calibration

Calibration Files
1 =18231017i-03.d 2 =18231017i-04.d 3 =18231017i-05.d 4 =18231017i-15.d 5 =18231017i-16.d
7 =18231017i-17.d 8 =18231017i-23.d 9 =18231017i-24.d 10 =18231017i-20.d 11 =18231017i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
17)		Dieldrin		1.774	1.188	1.107	1.204	1.129	1.126	1.126	1.080	1.065	*L		0.999
4															
18)		Endrin		1.176	1.164	1.139	1.158	1.120	1.173	1.173	1.114	1.167	1.154		2.06
19)		4,4'-DDD		0.877	0.896	0.875	0.885	0.872	0.938	0.959	0.918	0.907	0.903		3.39
20)		Endosulfan II		1.042	1.065	1.031	1.037	0.990	1.017	1.006	0.952		1.017		3.44
21)		4,4'-DDT			0.567	0.547	0.545	0.650	0.825	0.898	0.898	0.927	*L		0.998
8															
22)		Endrin Aldehyde		0.904	0.953	0.880	0.894	0.860	0.858	0.874	0.835	0.801	*L		0.998
9															
23)		Methoxychlor			0.348	0.324	0.373	0.384	0.453	0.487	0.467	0.461	0.412		15.07
24)		Mirex			1.138	1.082	1.083	0.964	0.889	0.875	0.794	0.762	0.948		14.91
25)		Endosulfan Su...		0.911	1.013	0.982	0.983	0.940	0.962	0.967	0.912	0.880	0.950		4.48
26)		Endrin Ketone		0.899	0.912	0.879	0.913	0.898	0.984	1.016	0.974	0.943	0.935		4.97
27)	s	Decachlorobip...			1.545	1.350	1.353	1.127	0.998	1.023	0.922		*L		0.997
8															
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1			0.073	0.066	0.060	0.060	0.060	0.060	0.058		*L		0.999
7															
30)	l1	chlordane-3			0.051	0.051	0.047	0.044	0.042	0.041	0.039		*L		0.997
9															
31)	l1	chlordane-4			0.217	0.171	0.145	0.143	0.140	0.140	0.136		*L		0.999
8															
32)	l1	chlordane-5			0.240	0.231	0.216	0.221	0.215	0.216	0.210		*L		0.999
8															

Method Path : I:\PEST\Pest18\2023\231017ical\
Method File : pest18_2023_10_17_ugL_ICAL.m
Title : pest
Last Update : Thu Oct 19 10:43:47 2023
Response Via : Initial Calibration

Calibration Files
1 =18231017i-03.d 2 =18231017i-04.d 3 =18231017i-05.d 4 =18231017i-15.d 5 =18231017i-16.d
7 =18231017i-17.d 8 =18231017i-23.d 9 =18231017i-24.d 10 =18231017i-20.d 11 =18231017i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1			0.029				0.038	0.034			*L	0.9981
35)	l2	toxaphene-2			0.034				0.041	0.038			*L	0.9993
36)	l2	toxaphene-3			0.042				0.040	0.038			*L	0.9994
37)	l2	toxaphene-4			0.037				0.033	0.032			*L	0.9997

Signal #2 Calibration Files
1 =18231017i-03.d 2 =18231017i-04.d 3 =18231017i-05.d 4 =18231017i-15.d 5 =18231017i-16.d
7 =18231017i-17.d 8 =18231017i-23.d 9 =18231017i-24.d 10 =18231017i-20.d 11 =18231017i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.054	1.100	1.088	1.097	1.052	1.080	1.028	1.009	1.002	1.057	3.53
3)		Hexachloroben...		1.357	1.390	1.355	1.397	1.254	1.183	1.114	1.079	1.067	1.244	10.96
4)		alpha-BHC		1.259	1.307	1.308	1.312	1.318	1.442	1.401	1.392	1.410	1.350	4.60
5)		gamma-BHC (li...	1.312	1.190	1.271	1.247	1.251	1.230	1.311	1.276	1.266	1.278	1.263	2.88
6)		beta-BHC		0.625	0.673	0.652	0.656	0.624	0.607	0.574	0.564	0.563	*L	0.9995
7)		delta-BHC		1.220	1.271	1.224	1.247	1.228	1.335	1.301	1.297	1.318	1.271	3.41
8)		Heptachlor		1.314	1.321	1.250	1.266	1.204	1.245	1.218	1.184	1.205	1.245	3.88
9)		Aldrin		1.126	1.209	1.159	1.178	1.148	1.226	1.216	1.181	1.201	1.183	2.84

Response Factor Report Pest 18

Method Path : I:\PEST\Pest18\2023\231017ical\
Method File : pest18_2023_10_17_ugL_ICAL.m
Title : pest
Last Update : Thu Oct 19 10:43:47 2023
Response Via : Initial Calibration

Calibration Files
1 =18231017i-03.d 2 =18231017i-04.d 3 =18231017i-05.d 4 =18231017i-15.d 5 =18231017i-16.d
7 =18231017i-17.d 8 =18231017i-23.d 9 =18231017i-24.d 10 =18231017i-20.d 11 =18231017i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10)	Alachlor			0.214	0.200	0.200	0.189	0.184	0.172	0.159	0.152	0.184	11.70
11)	Chlorpyrifos			0.773	0.742	0.736	0.671	0.621	0.584	0.531	0.519	0.647	15.22
12)	Heptachlor Ep...		1.166	1.256	1.219	1.194	1.159	1.166	1.149	1.103	1.108	1.169	4.20
13)	gamma-Chlorda...			1.174	1.096	1.107	1.042	1.048	1.040	1.002	1.023	1.066	5.22
14)	alpha-Chlorda...		1.347	1.304	1.232	1.239	1.174	1.178	1.163	1.113	1.125	1.208	6.55
15)	4,4'-DDE		1.139	1.201	1.148	1.153	1.142	1.200	1.214	1.162	1.178	1.171	2.42
16)	Endosulfan I		1.110	1.179	1.107	1.127	1.079	1.109	1.096	1.053	1.031	1.099	3.88
17)	Dieldrin		1.107	1.174	1.107	1.129	1.079	1.133	1.138	1.096	1.106	1.119	2.51
18)	Endrin		1.131	1.171	1.128	1.118	1.111	1.148	1.150	1.103	1.099	1.129	2.14
19)	4,4'-DDD		1.005	0.945	0.911	0.901	0.901	0.940	0.958	0.922	0.984	0.941	3.90
20)	Endosulfan II		1.086	1.101	1.065	1.063	1.013	1.017	1.004	0.957		1.038	4.68
21)	4,4'-DDT			0.722	0.709	0.735	0.741	0.872	0.927	0.915	0.951	0.822	12.67
22)	Endrin Aldehyde		1.551	1.089	0.932	1.000	0.947	0.856	0.861	0.829	0.818	*L	0.999
6													
23)	Methoxychlor			0.451	0.419	0.443	0.440	0.480	0.502	0.479	0.484	0.462	6.10
24)	Mirex			1.102	1.021	1.034	0.939	0.836	0.815	0.749	0.726	*L	0.997
6													
25)	Endosulfan Su...		1.223	1.089	1.001	1.032	0.959	0.934	0.925	0.886	0.873	0.991	11.22

Method Path : I:\PEST\Pest18\2023\231017ical\
Method File : pest18_2023_10_17_ugL_ICAL.m
Title : pest
Last Update : Thu Oct 19 10:43:47 2023
Response Via : Initial Calibration

Calibration Files
1 =18231017i-03.d 2 =18231017i-04.d 3 =18231017i-05.d 4 =18231017i-15.d 5 =18231017i-16.d
7 =18231017i-17.d 8 =18231017i-23.d 9 =18231017i-24.d 10 =18231017i-20.d 11 =18231017i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
26)		Endrin Ketone	1.006	0.987	0.938	0.957	0.941	0.990	1.010	0.977	0.972		0.975		2.66
27)	s	Decachlorobip...		1.153	1.081	1.105	0.978	0.885	0.911	0.831			0.992		12.41
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1		0.044	0.041	0.037	0.037	0.037	0.037	0.036			*L		0.9996
30)	l1	chlordane-3		0.046	0.044	0.042	0.040	0.038	0.037	0.035			*L		0.9982
31)	l1	chlordane-4		0.140	0.143	0.130	0.136	0.134	0.135	0.132			*L		0.9999
32)	l1	chlordane-5		0.123	0.117	0.107	0.110	0.108	0.109	0.106			*L		0.9999
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-1		0.029				0.031	0.029				*L		0.9994
35)	l2	toxaphene-2		0.054				0.047	0.045				*L		0.9995
36)	l2	toxaphene-3		0.050				0.034	0.033				*L		0.9996
37)	l2	toxaphene-4		0.030				0.028	0.028				*L		0.9999

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:03 pm
Operator : PEST18:ejl
Sample : pem18231017a-01,42e,,pp 11180 -- (Sig #1); pem-01,42e,,pp 11180 -- (Sig #2)
Misc : WG1842425,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:48:47 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:43:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.722	1.771	85611202	75349296	25.000M4	25.000
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.272	4.996	745984	550343	0.194M2	0.156M4
18)	Endrin	4.824	5.460	210.3E6	182.0E6	53.212M3	53.504
19)	4,4'-DDD	4.951	5.604	973832	1428368	0.315M4	0.504M4 D
21)	4,4'-DDT	5.251	5.889	322.5E6	287.4E6	104.412M4	116.078
22)	Endrin Aldeh	5.507	5.986	461046	2025975	N.D. M2	0.024
26)	Endrin Keton	6.133	6.634	557585	1599960	0.174M2	0.544M4 D
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

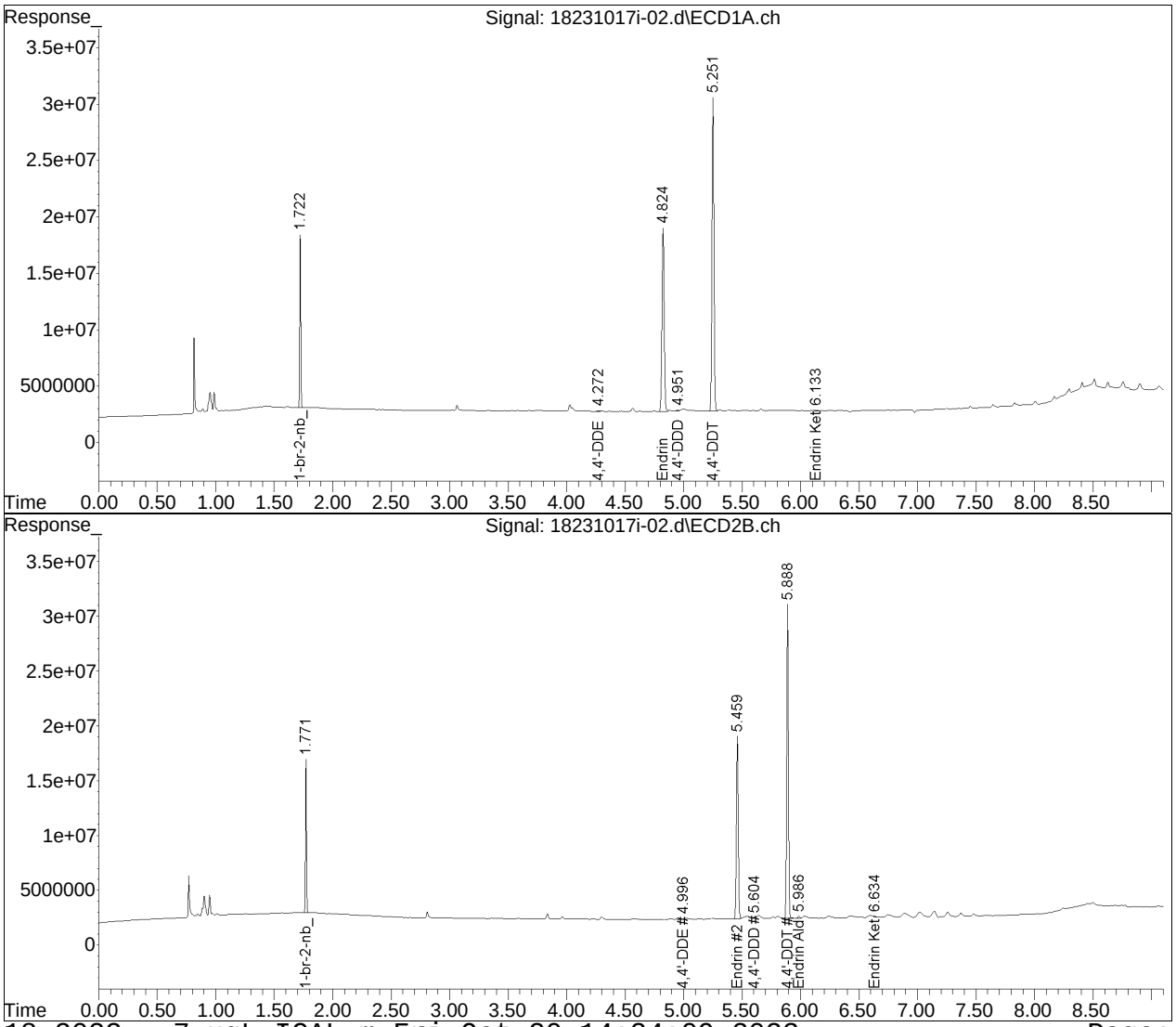
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:03 pm
Operator : PEST18:ejl
Sample : pem18231017a-01,42e,,pp 11180 -- (Sig #1); pem-01,42e,,pp 11180 --
Misc : WG1842425,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:48:47 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:43:47 2023
Response via : Initial Calibration
Integrator: ChemStation

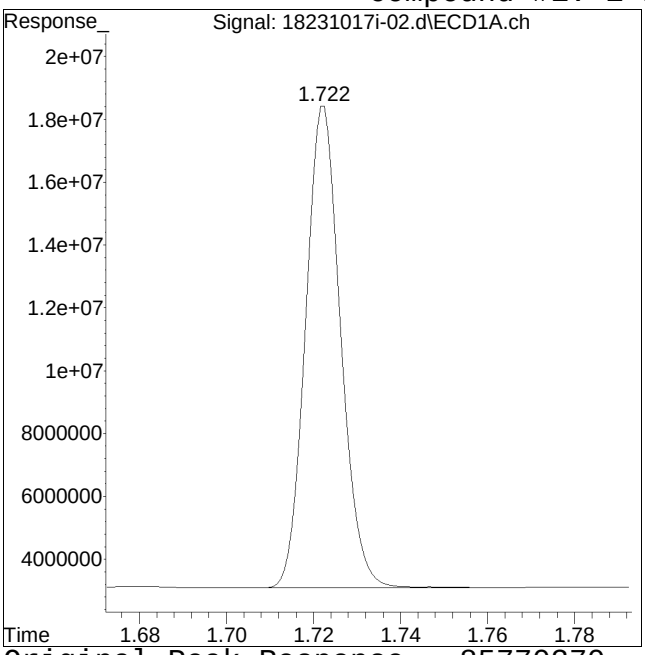
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



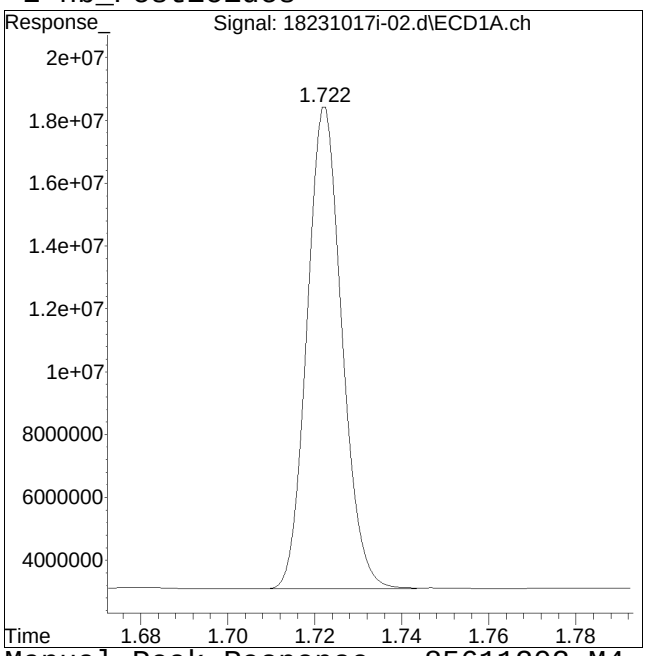
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-02.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:03 pm Instrument : Pest 18
Sample : pem18231017a-01,42e,,pp 11Quant Date : 10/19/2023 10:46 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 85770370



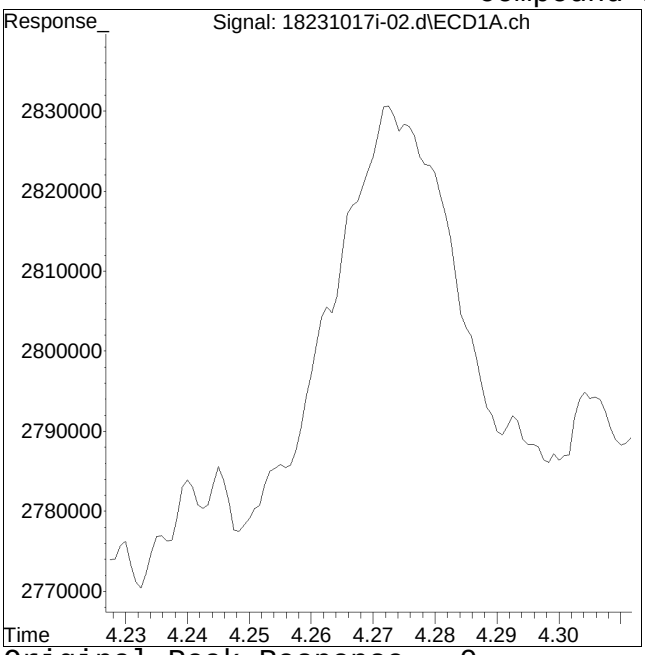
Manual Peak Response = 85611202 M4

M4 = Poor automated baseline construction.

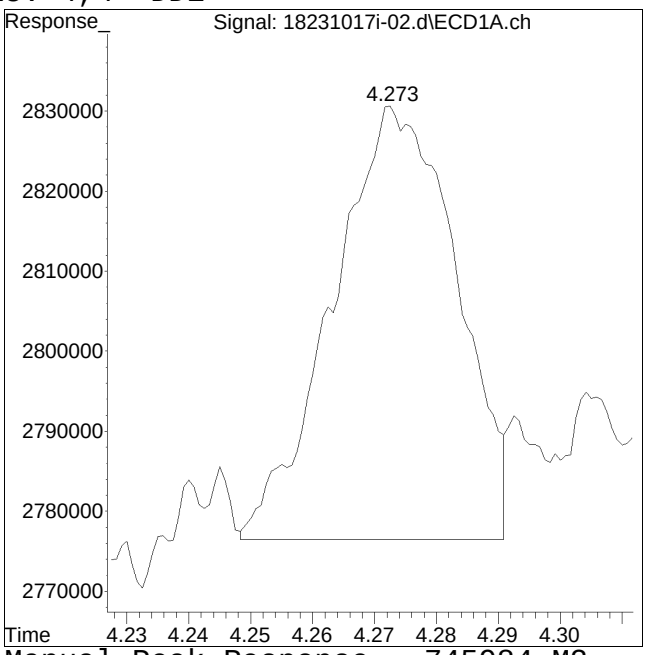
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-02.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:03 pm Instrument : Pest 18
Sample : pem18231017a-01,42e,,pp 11Quant Date : 10/19/2023 10:46 am

Compound #15: 4,4'-DDE



Original Peak Response = 0



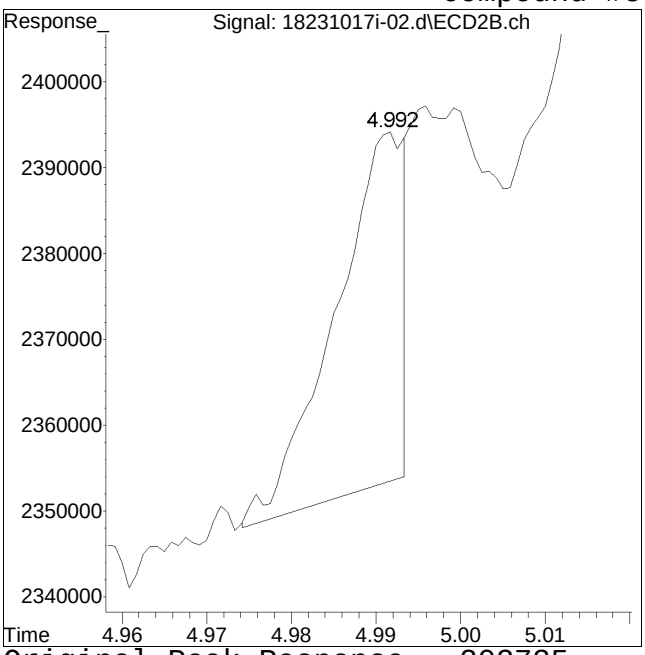
Manual Peak Response = 745984 M2

M2 = Peak not found by automatic integration algorithm.

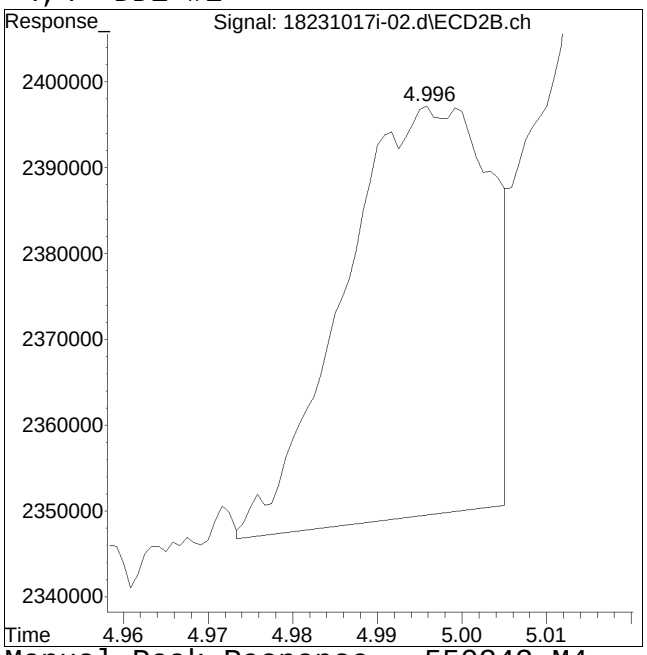
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-02.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:03 pm Instrument : Pest 18
Sample : pem18231017a-01,42e,,pp 11Quant Date : 10/19/2023 10:46 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 202735



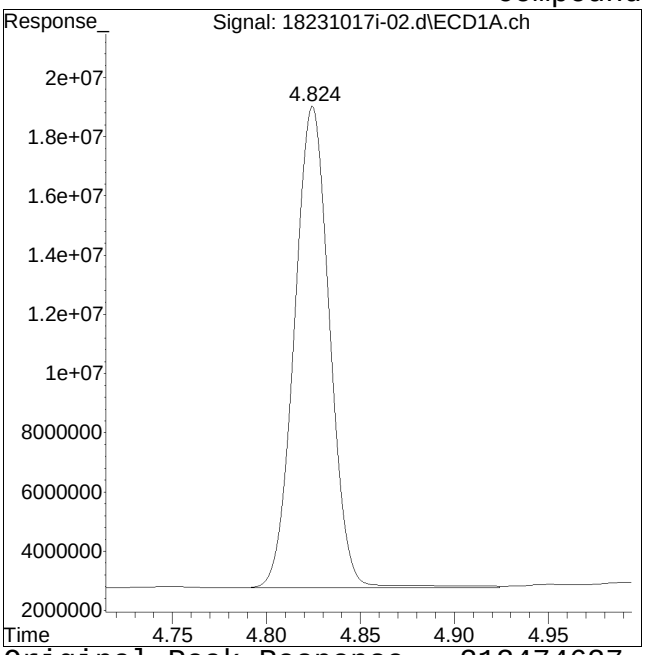
Manual Peak Response = 550343 M4

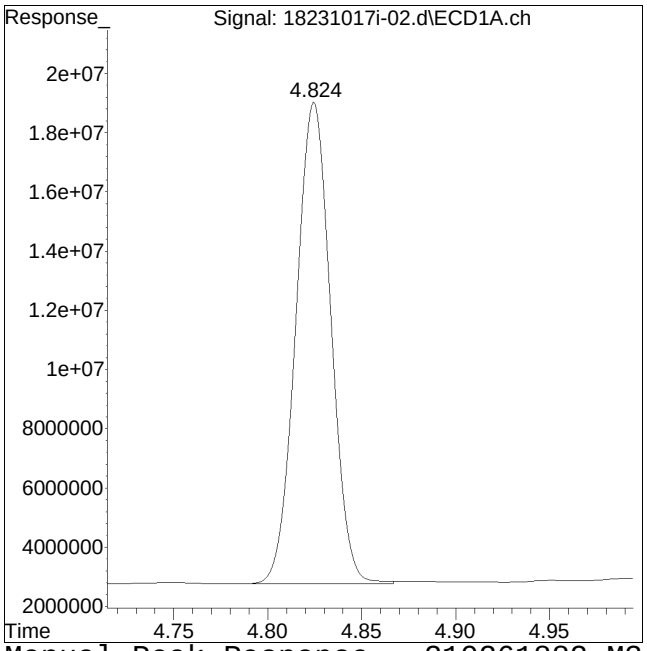
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-02.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:03 pm Instrument : Pest 18
Sample : pem18231017a-01,42e,,pp 11Quant Date : 10/19/2023 10:46 am

Compound #18: Endrin



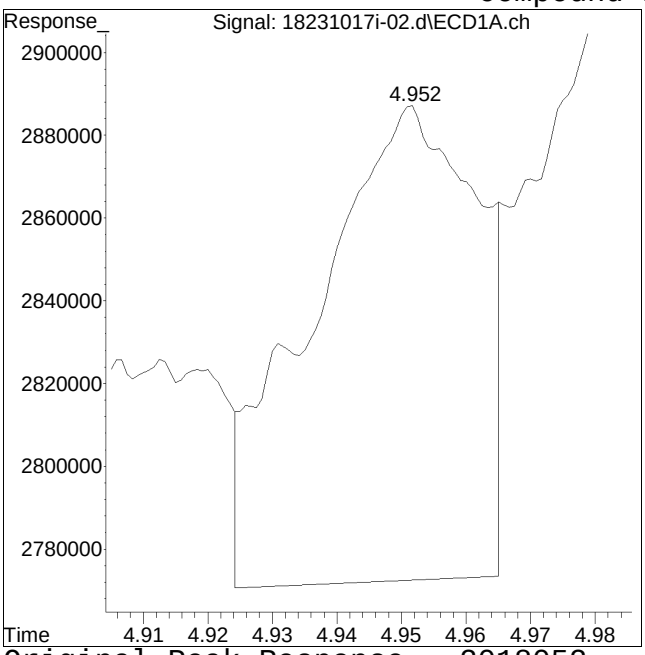


Original Peak Response = 212474627 Manual Peak Response = 210261882 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

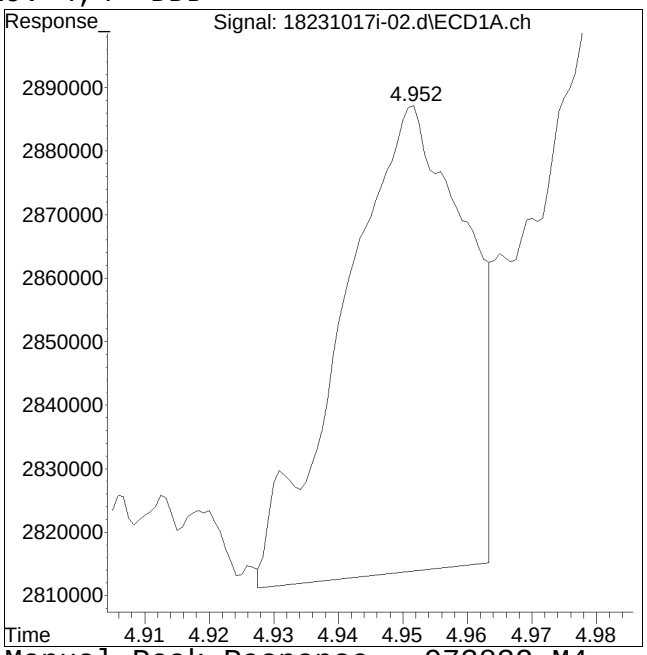
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-02.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:03 pm Instrument : Pest 18
Sample : pem18231017a-01,42e,,pp 11Quant Date : 10/19/2023 10:46 am

Compound #19: 4,4'-DDD



Original Peak Response = 2018052



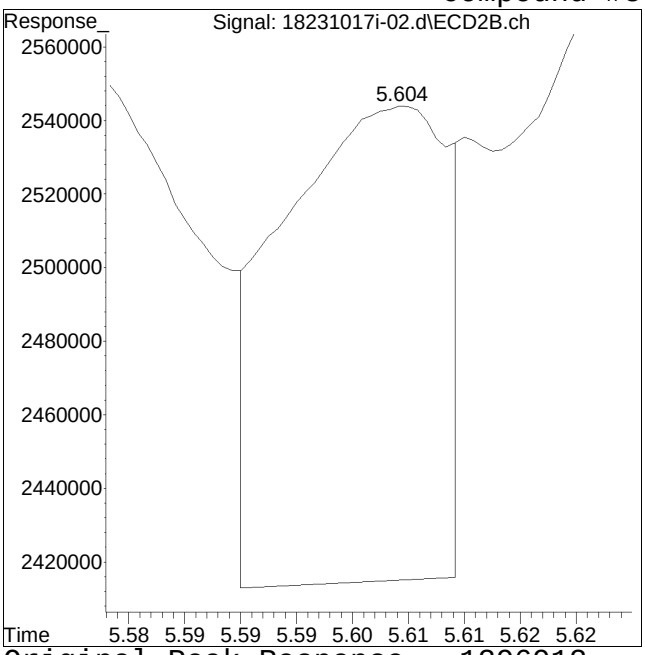
Manual Peak Response = 973832 M4

M4 = Poor automated baseline construction.

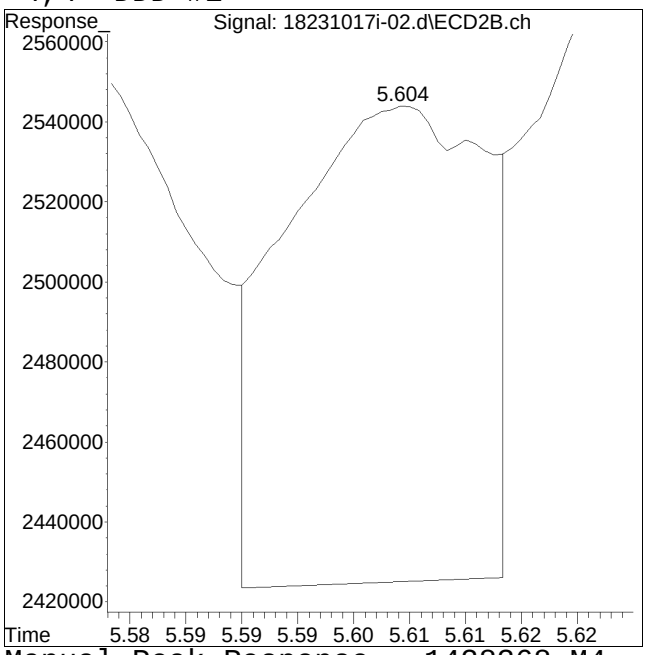
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-02.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:03 pm Instrument : Pest 18
Sample : pem18231017a-01,42e,,pp 11Quant Date : 10/19/2023 10:46 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 1296912



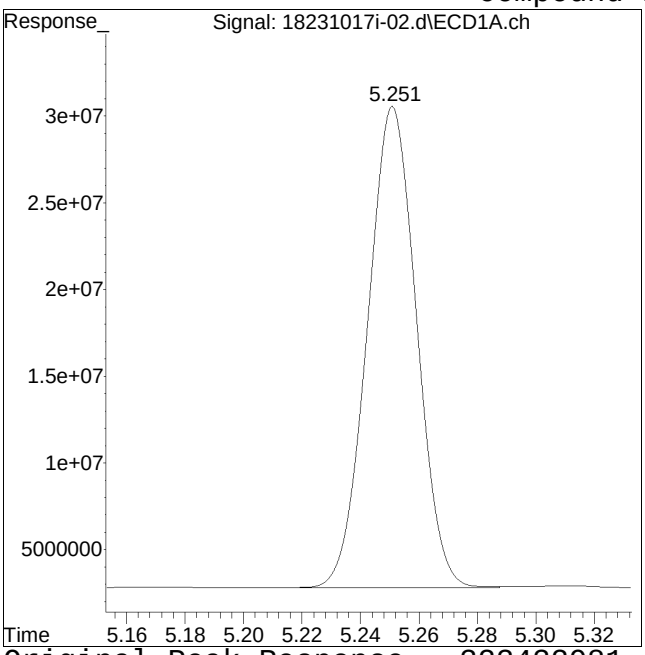
Manual Peak Response = 1428368 M4

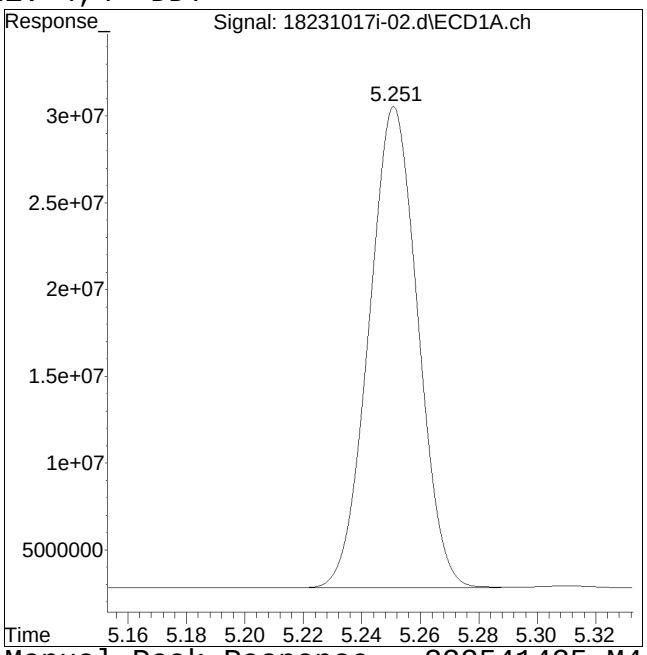
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-02.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:03 pm Instrument : Pest 18
Sample : pem18231017a-01,42e,,pp 11Quant Date : 10/19/2023 10:46 am

Compound #21: 4,4'-DDT



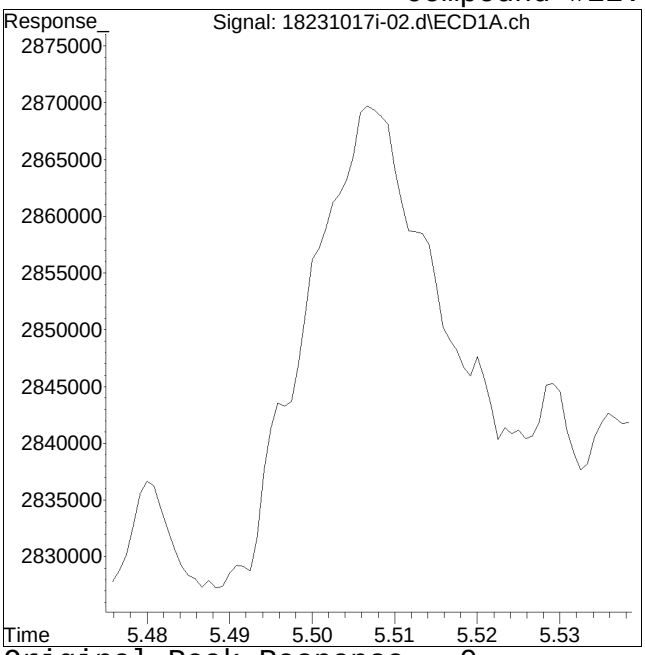


Original Peak Response = 323432981 Manual Peak Response = 322541425 M4
M4 = Poor automated baseline construction.

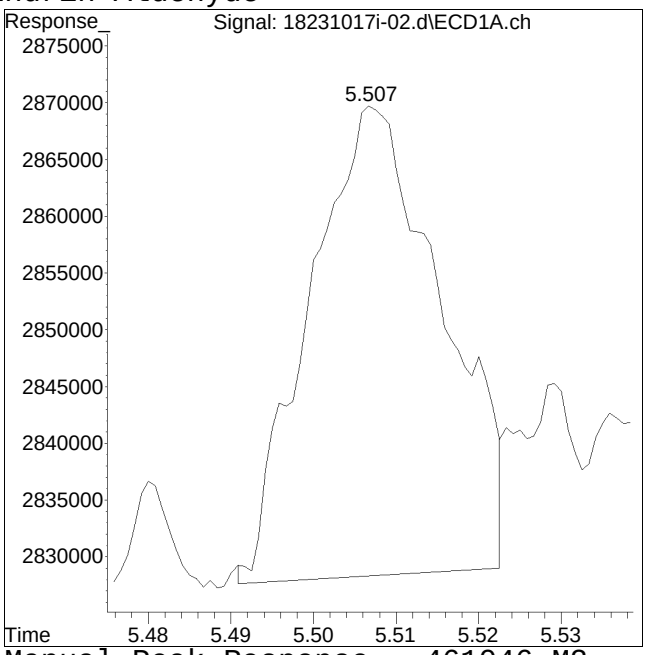
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-02.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:03 pm Instrument : Pest 18
Sample : pem18231017a-01,42e,,pp 11Quant Date : 10/19/2023 10:46 am

Compound #22: Endrin Aldehyde



Original Peak Response = 0



Manual Peak Response = 461046 M2

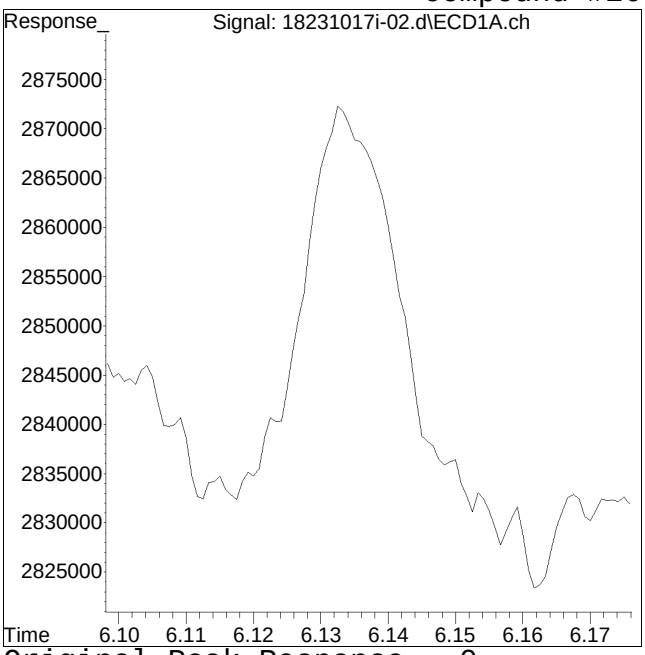
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

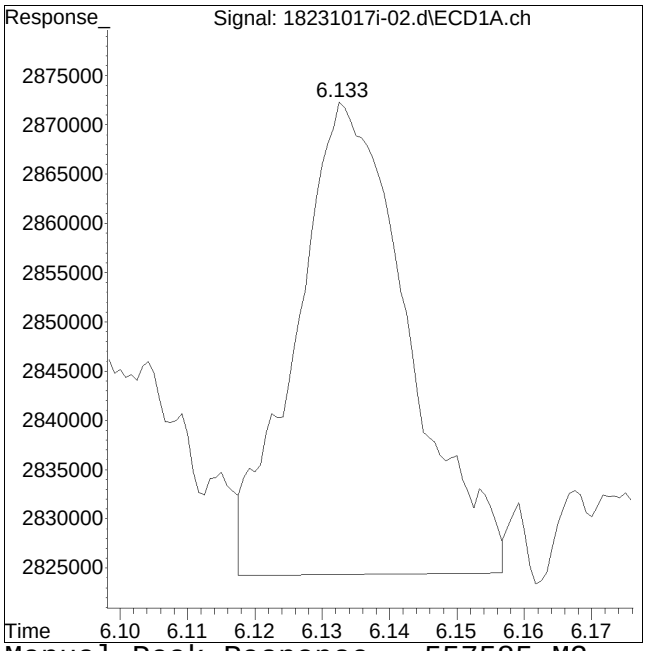
Data Path : I:\PEST\Pest18\2023\231017Q
Data File : 18231017i-02.d
Date Inj'd : 10/17/2023 12:03 pm
Sample : pem18231017a-01,42e,,pp 11

Method : pest18_2023_10_17_ugL_IC
Operator : PEST18:ejl
Instrument : Pest 18
Quant Date : 10/19/2023 10:46 am

Compound #26: Endrin Ketone



Original Peak Response = 0



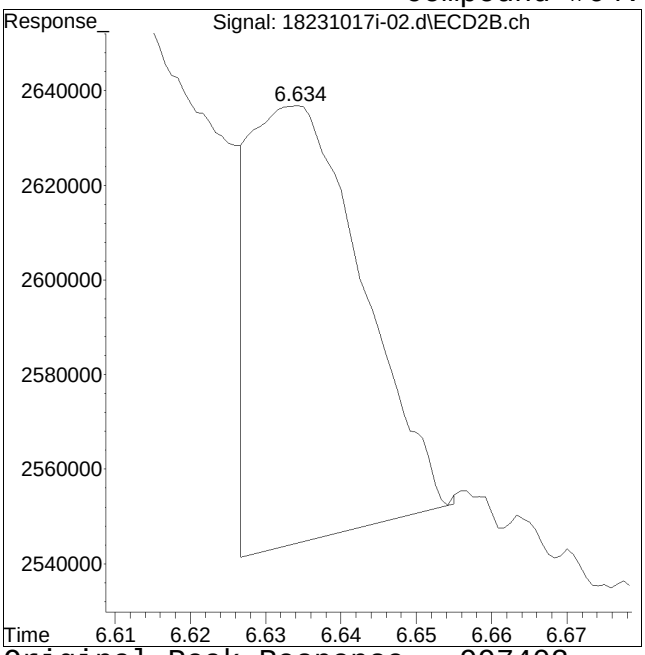
Manual Peak Response = 557585 M2

M2 = Peak not found by automatic integration algorithm.

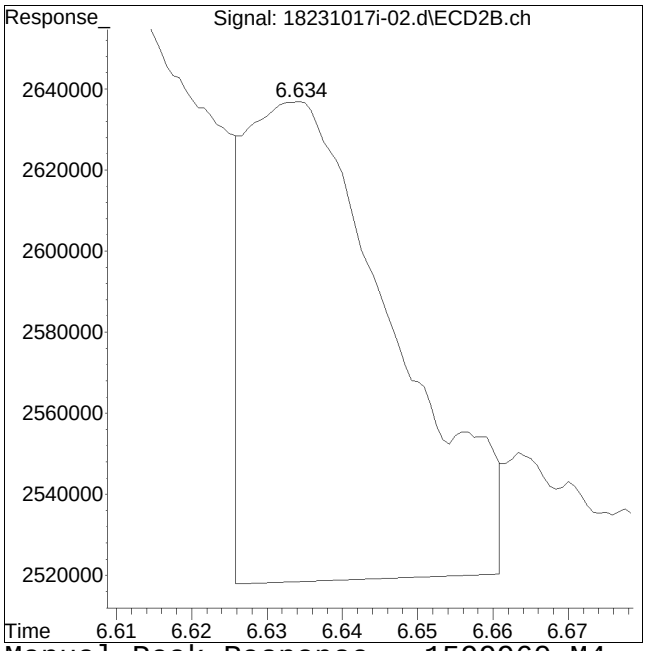
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-02.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:03 pm Instrument : Pest 18
Sample : pem18231017a-01,42e,,pp 11Quant Date : 10/19/2023 10:46 am

Compound #64: Endrin Ketone #2



Original Peak Response = 997402



Manual Peak Response = 1599960 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:14 pm
Operator : PEST18:ejl
Sample : il1pest,42e,,pp 11230 L0.0005
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:57:27 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:56:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.721	1.770	81657152	72039494	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	2.730	3.054	1923121	1890188	0.483M4	0.522
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:14 pm
Operator : PEST18:ejl
Sample : il1pest,42e,,pp 11230 L0.0005
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:57:27 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:56:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

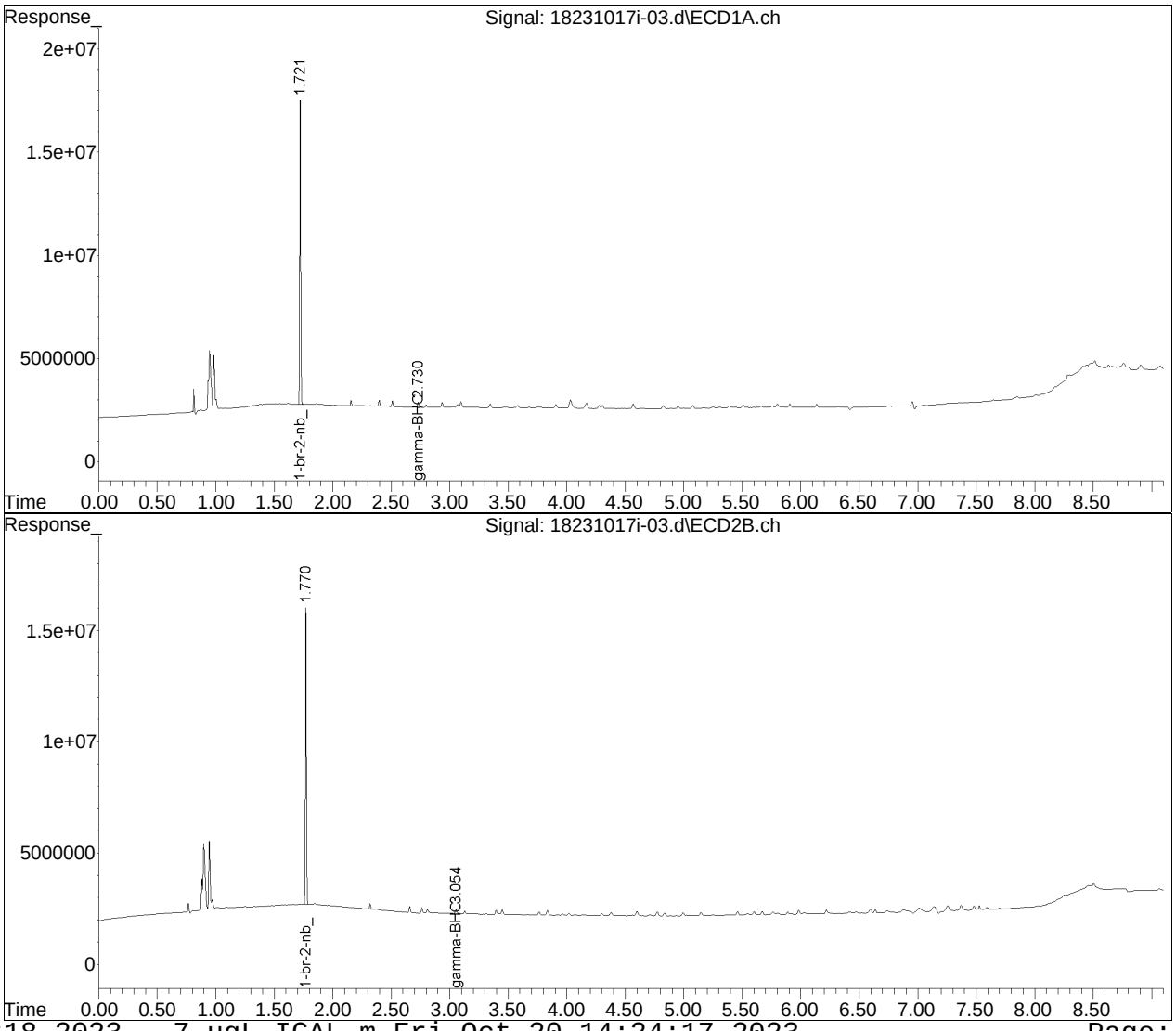
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:14 pm
Operator : PEST18:ejl
Sample : il1pest,42e,,pp 11230 L0.0005
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:57:27 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:56:29 2023
Response via : Initial Calibration
Integrator: ChemStation

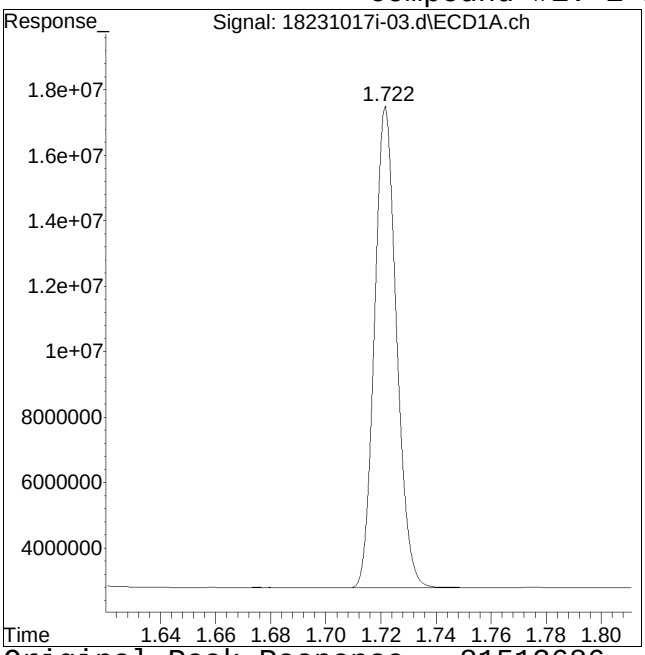
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



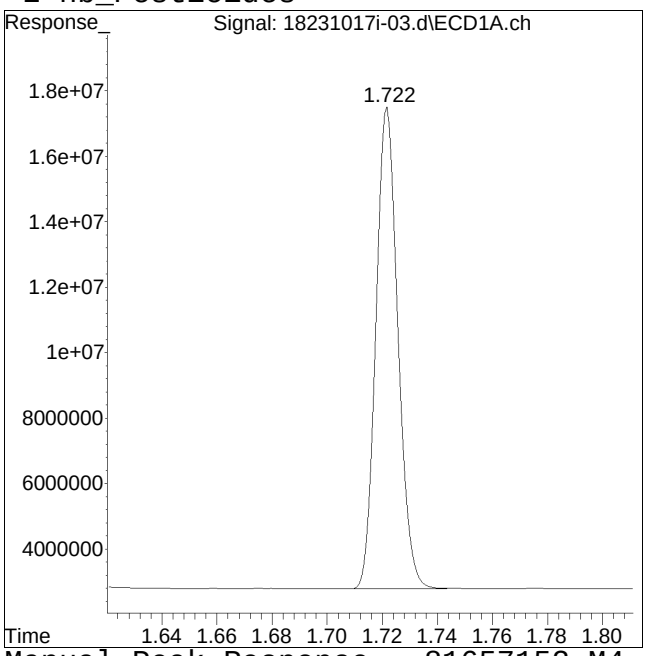
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-03.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:14 pm Instrument : Pest 18
Sample : il1pest,42e,,pp 11230 L0.0Quant Date : 10/19/2023 9:56 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 81513686



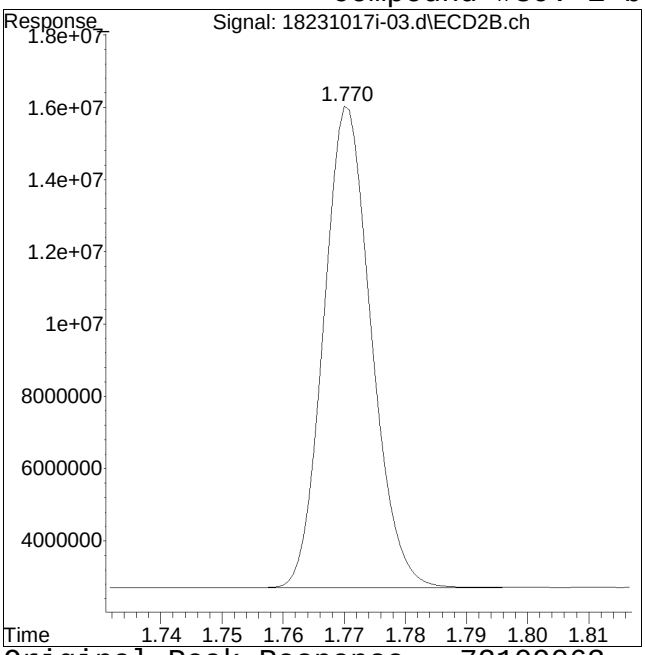
Manual Peak Response = 81657152 M4

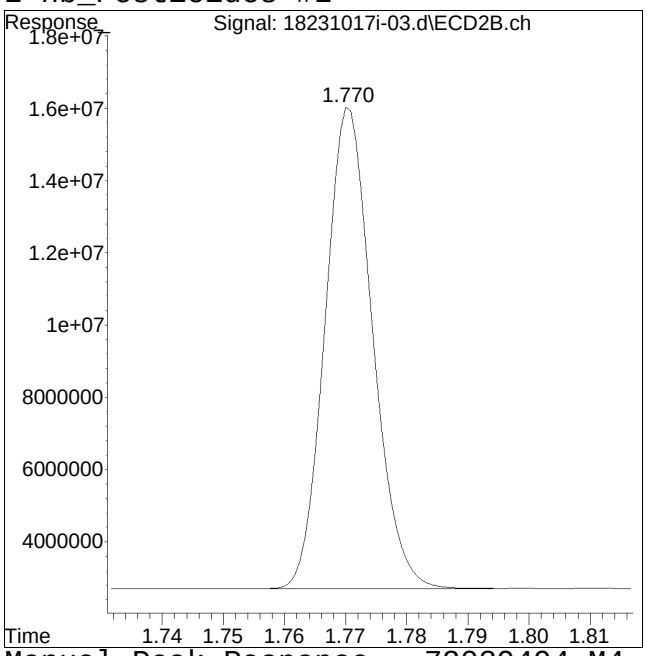
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-03.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:14 pm Instrument : Pest 18
Sample : il1pest,42e,,pp 11230 L0.0Quant Date : 10/19/2023 9:56 am

Compound #39: 1-br-2-nb_Pesticides #2



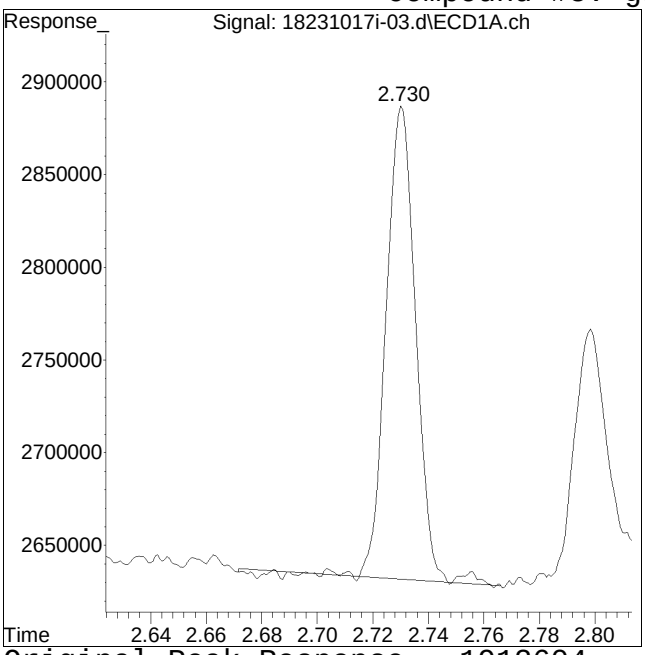


Original Peak Response = 72109063 Manual Peak Response = 72039494 M4
M4 = Poor automated baseline construction.

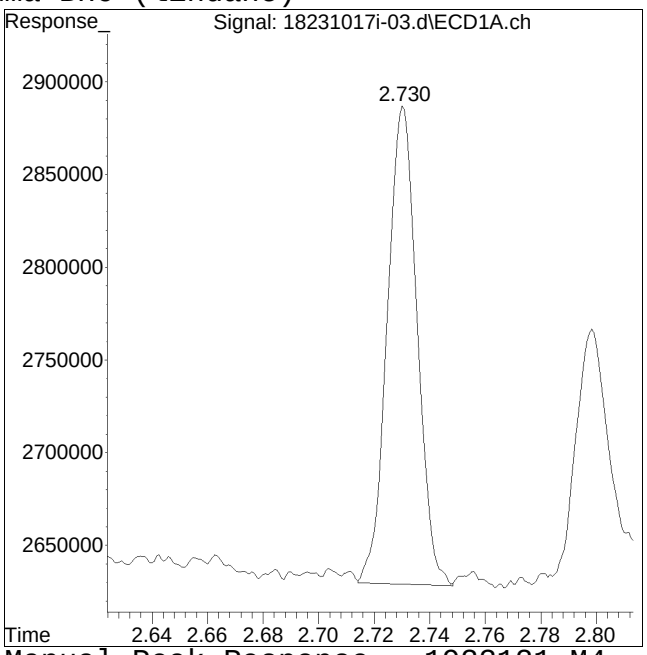
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-03.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:14 pm Instrument : Pest 18
Sample : il1pest,42e,,pp 11230 L0.0Quant Date : 10/19/2023 9:56 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 1912604



Manual Peak Response = 1923121 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:25 pm
Operator : PEST18:ejl
Sample : il2pest,42e,,pp 11229 L0.001
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 20 14:05:55 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:44:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.722	1.770	84370986	74120156	25.000	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.155	2.320	3476240	3125192	0.991	0.997
	Spiked Amount 50.000	Range 30 - 150		Recovery =		1.98%#	1.99%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	2.397	2.658	4123613	4022520	1.041M4	1.091M4
4)	alpha-BHC	2.510	2.762	3991963	3731754	0.899M4	0.932
5)	gamma-BHC (l	2.730	3.054	3803910	3528774	0.928M4	0.942
6)	beta-BHC	2.798	3.129	2133607	1851798	0.755M3	0.759
7)	delta-BHC	2.934	3.397	3984877	3618056	0.949M4	0.960
8)	Heptachlor	3.095	3.448	4523439	3894286	1.122M4	1.055
9)	Aldrin	3.346	3.764	3692779	3337235	0.958M4	0.952M4
10)	Alachlor	0.000	0.000	0	0	N.D.	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	3.907	4.380	3718317	3456365	0.987M4	0.997
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	4.170	4.774	4622132	3993395	1.148M4	1.115
15)	4,4'-DDE	4.276	4.994	3624743	3378280	0.955M4	0.973M4
16)	Endosulfan I	4.306	4.835	3549153	3289661	0.993	1.010
17)	Dieldrin	4.568	5.148	5985410	3283026	1.187M4	0.990
18)	Endrin	4.826	5.459	3970171	3354644	1.020	1.002
19)	4,4'-DDD	4.952	5.601	2958200	2980618	0.971M4	1.069M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:25 pm
Operator : PEST18:ejl
Sample : il2pest,42e,,pp 11229 L0.001
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 20 14:05:55 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:44:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	5.078	5.671	3515550	3220092	1.024M4	1.046M4
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	5.506	5.982	3052457	4598705	0.850M3	1.088M4
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	5.906	6.218	3075505	3627185	0.959M4	1.234M3
26)	Endrin Keton	6.136	6.636	3033925	2982231	0.961M4	1.031
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:25 pm
Operator : PEST18:ejl
Sample : il2pest,42e,,pp 11229 L0.001
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 20 14:05:55 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:44:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

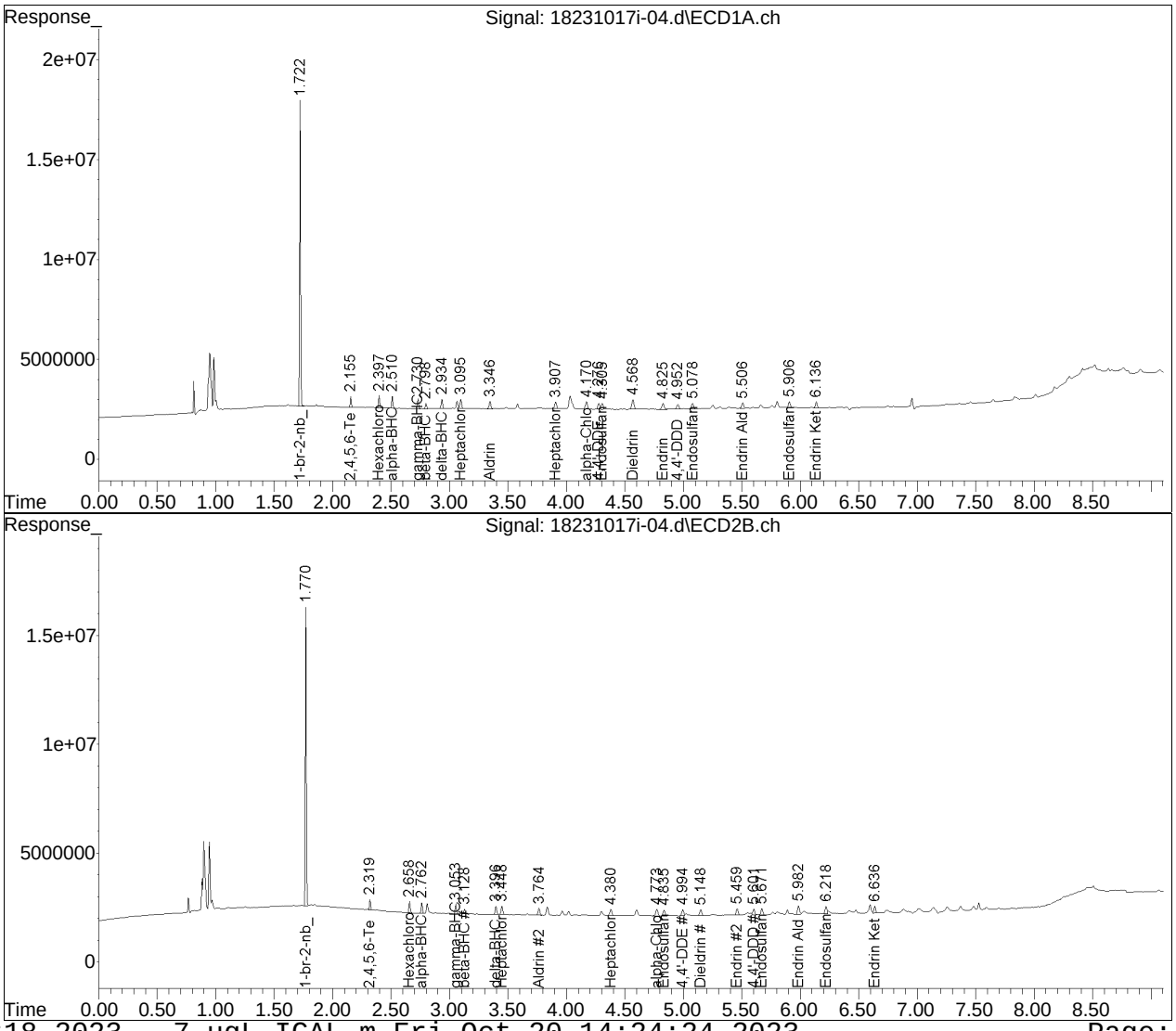
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:25 pm
Operator : PEST18:ejl
Sample : il2pest,42e,,pp 11229 L0.001
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 20 14:05:55 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:44:29 2023
Response via : Initial Calibration
Integrator: ChemStation

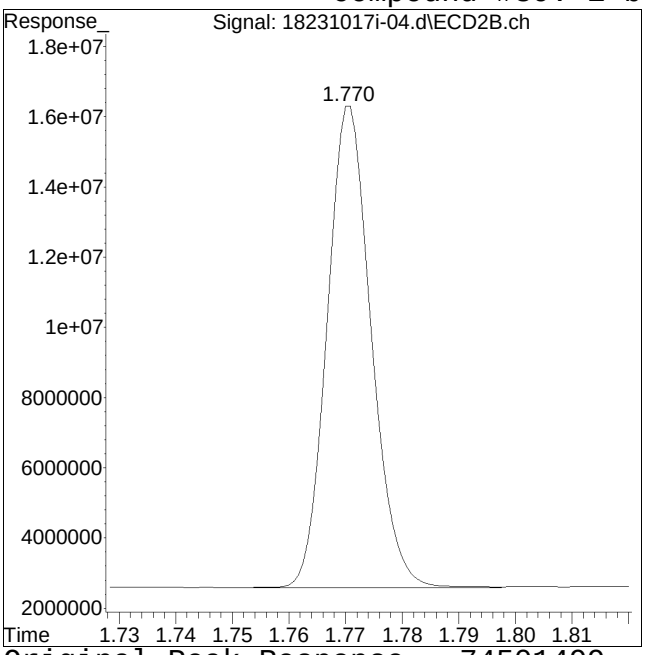
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



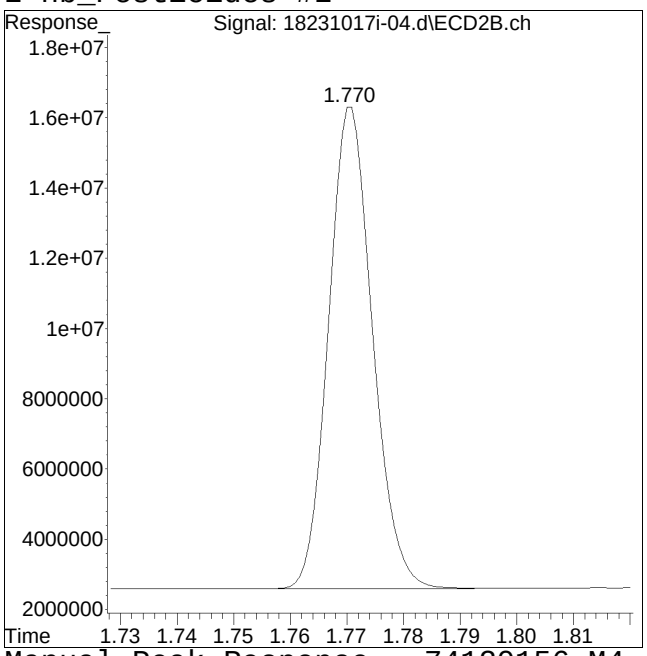
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 74501499



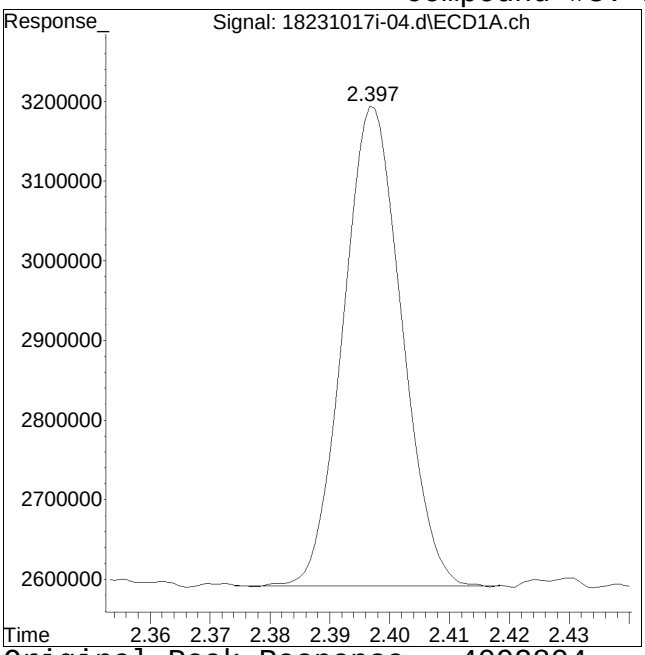
Manual Peak Response = 74120156 M4

M4 = Poor automated baseline construction.

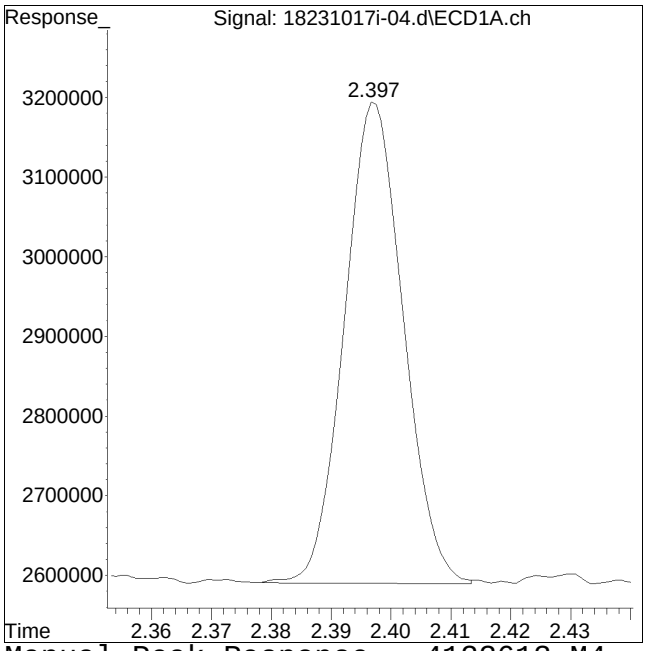
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 4092804



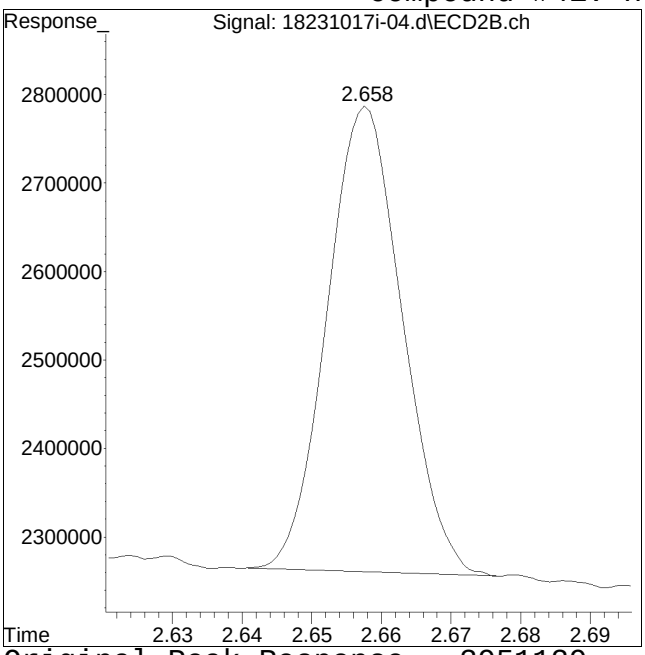
Manual Peak Response = 4123613 M4

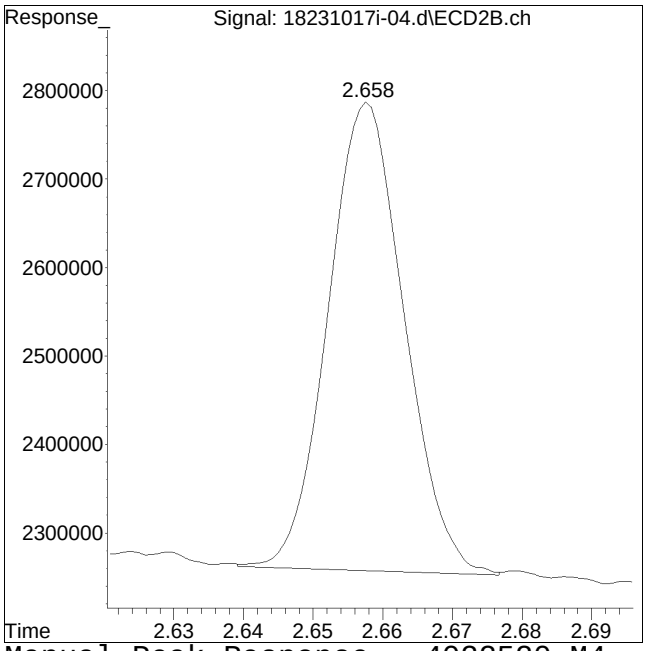
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #41: Hexachlorobenzene #2



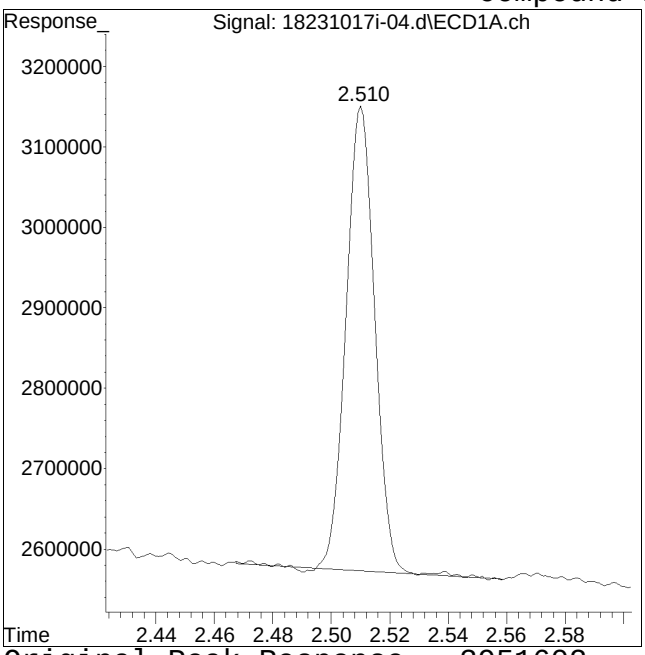


Original Peak Response = 3951129 Manual Peak Response = 4022520 M4
M4 = Poor automated baseline construction.

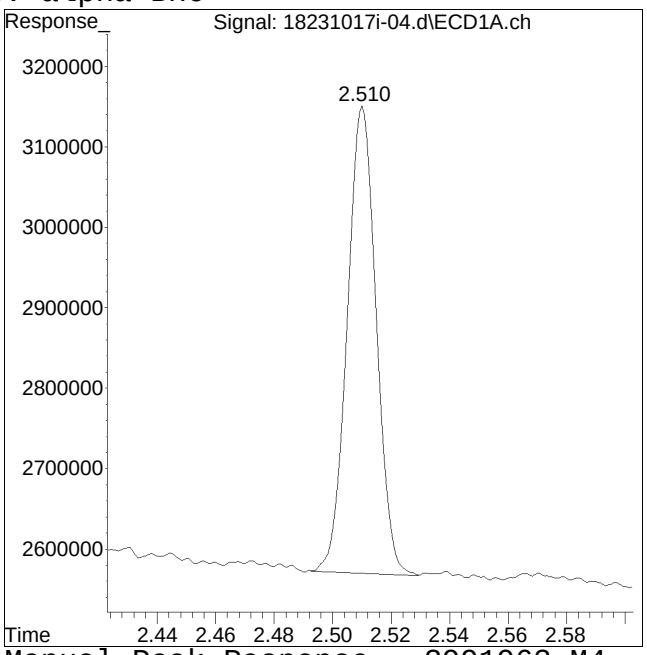
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #4: alpha-BHC



Original Peak Response = 3951602



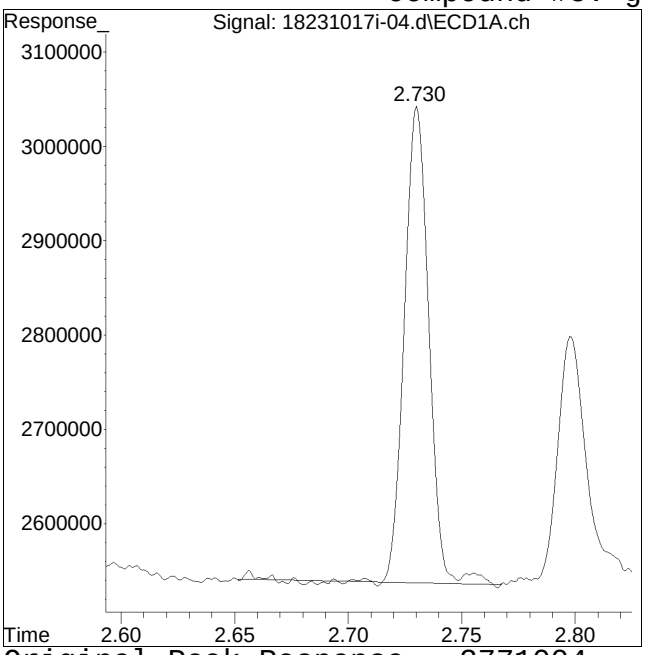
Manual Peak Response = 3991963 M4

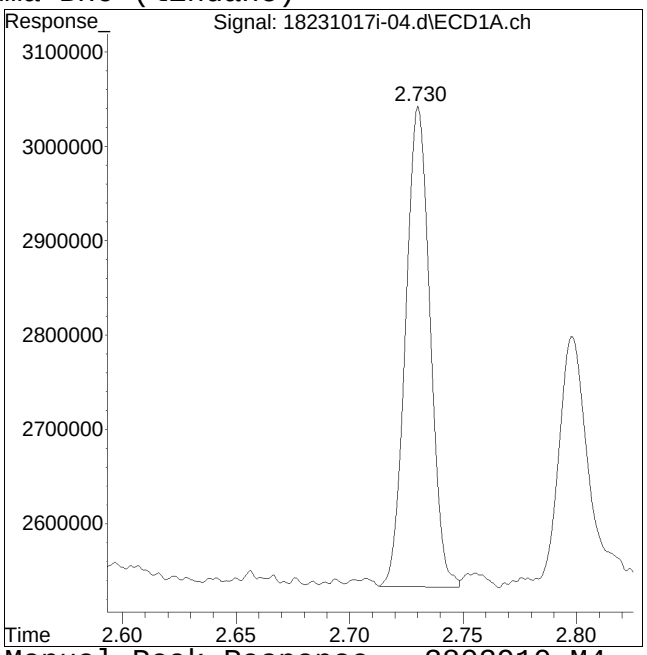
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #5: gamma-BHC (lindane)



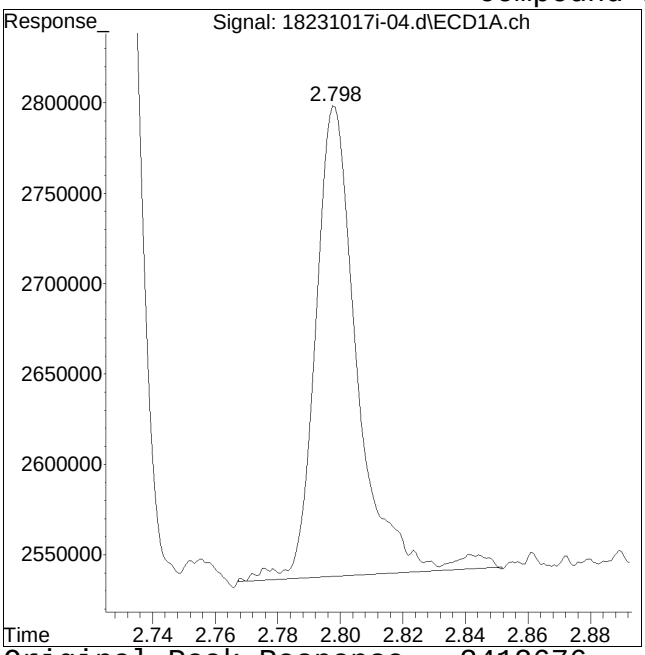


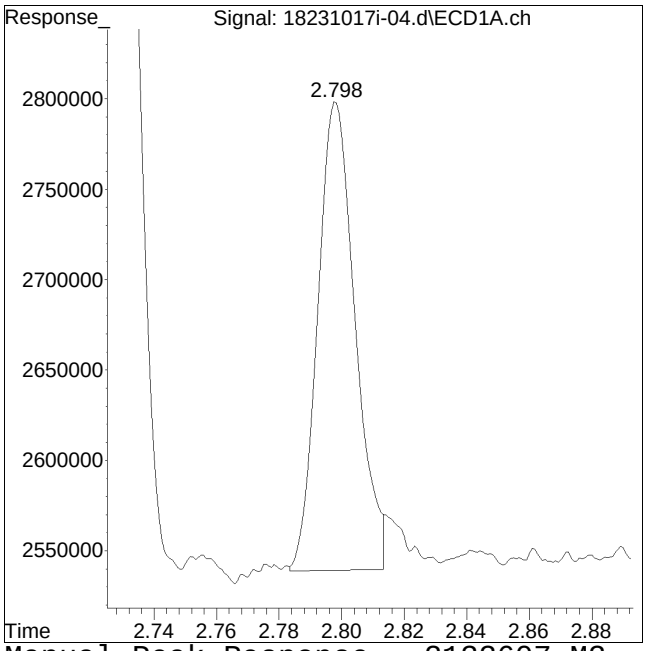
Original Peak Response = 3771004 Manual Peak Response = 3803910 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #6: beta-BHC



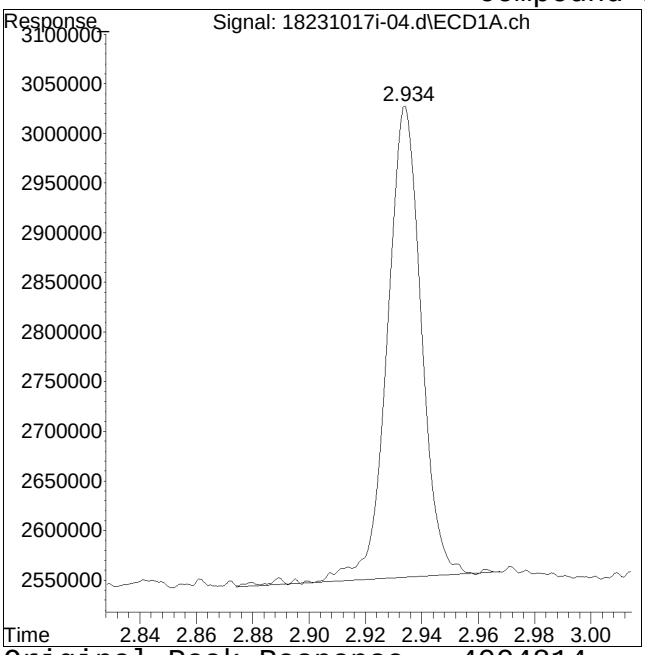


Original Peak Response = 2412676 Manual Peak Response = 2133607 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

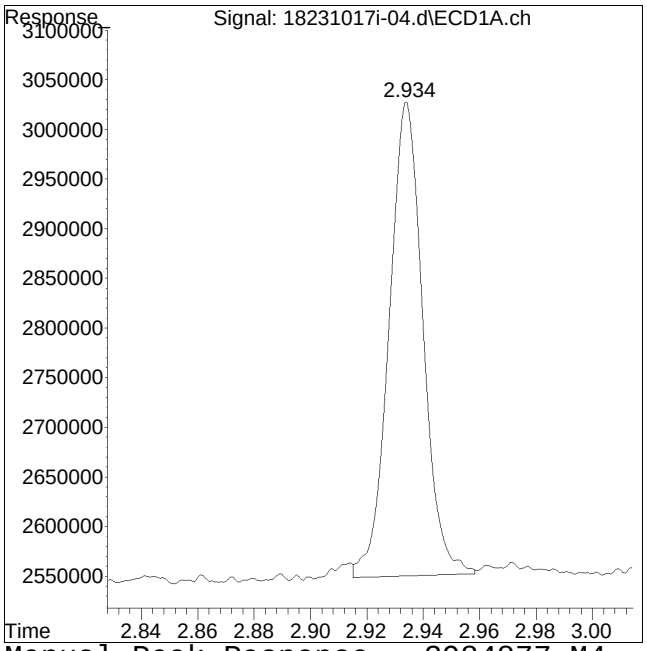
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #7: delta-BHC



Original Peak Response = 4004814



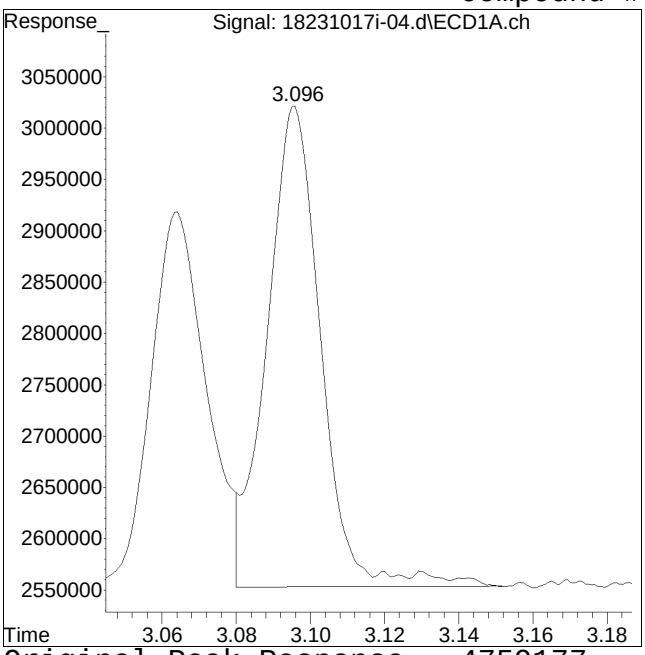
Manual Peak Response = 3984877 M4

M4 = Poor automated baseline construction.

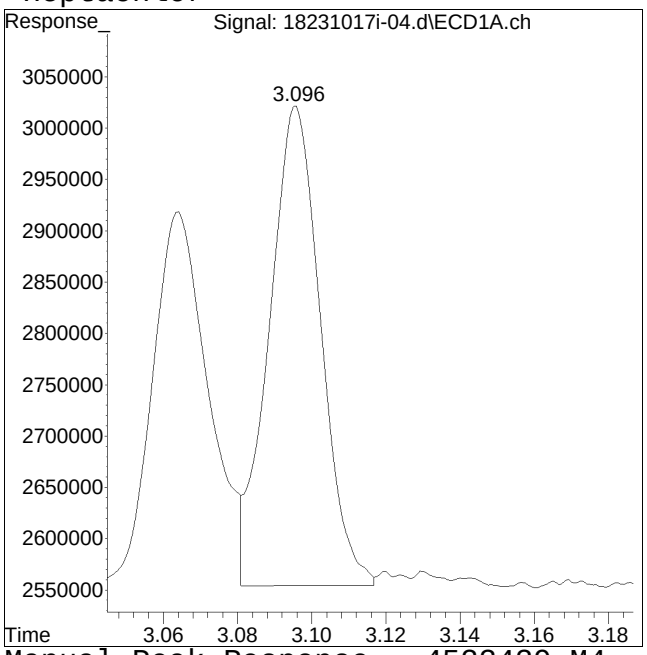
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #8: Heptachlor



Original Peak Response = 4759177



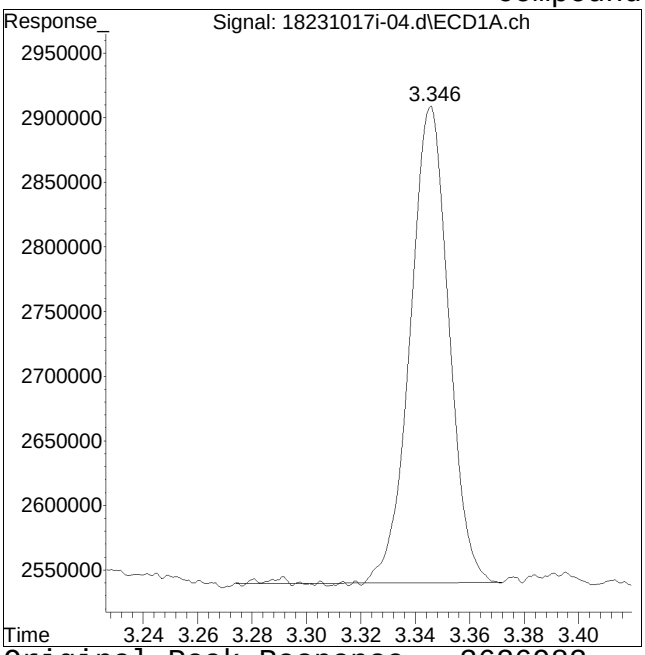
Manual Peak Response = 4523439 M4

M4 = Poor automated baseline construction.

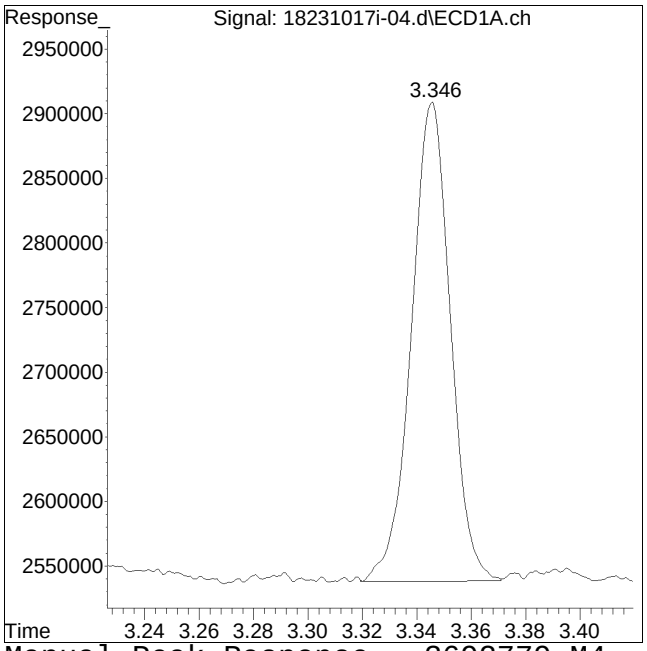
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #9: Aldrin



Original Peak Response = 3626983



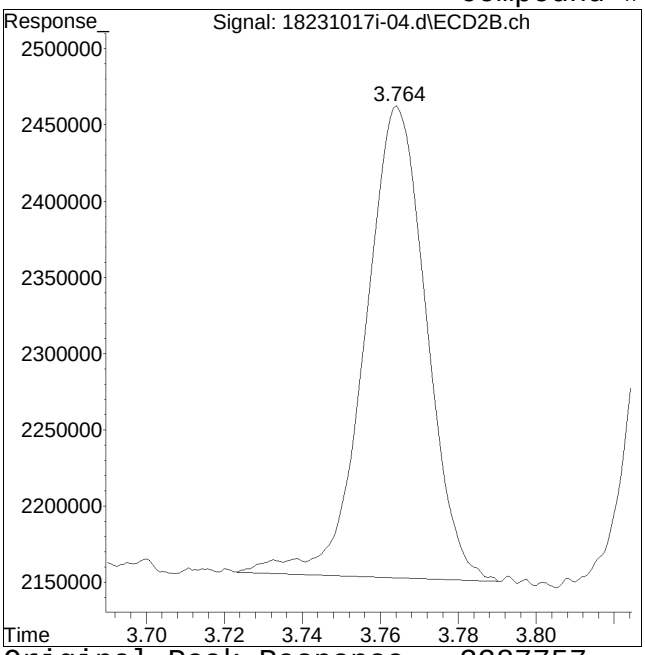
Manual Peak Response = 3692779 M4

M4 = Poor automated baseline construction.

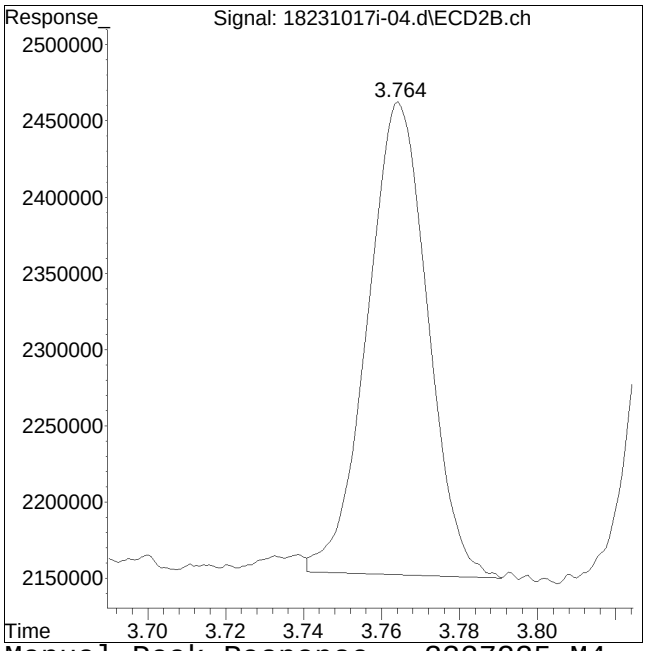
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #47: Aldrin #2



Original Peak Response = 3387757



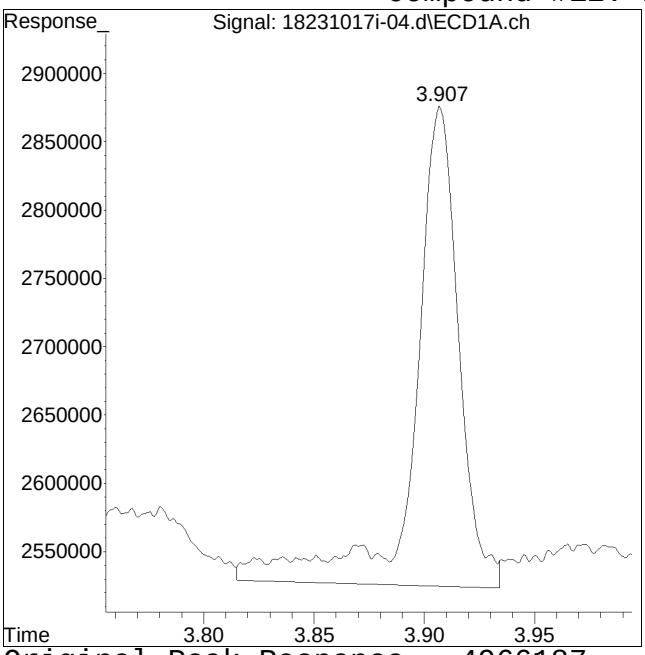
Manual Peak Response = 3337235 M4

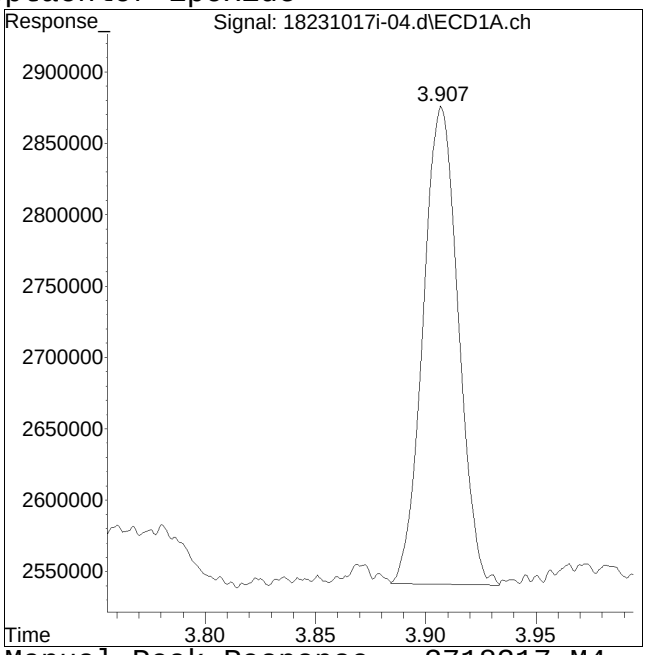
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #12: Heptachlor Epoxide



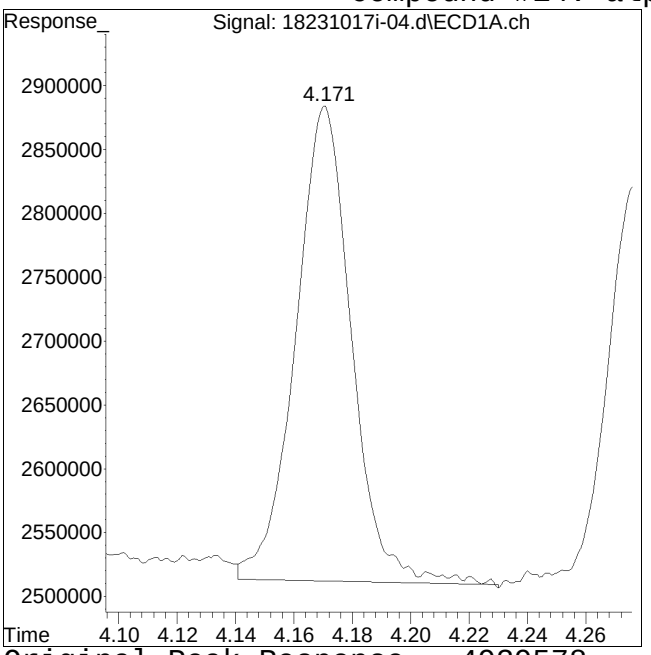


Original Peak Response = 4966187 Manual Peak Response = 3718317 M4
M4 = Poor automated baseline construction.

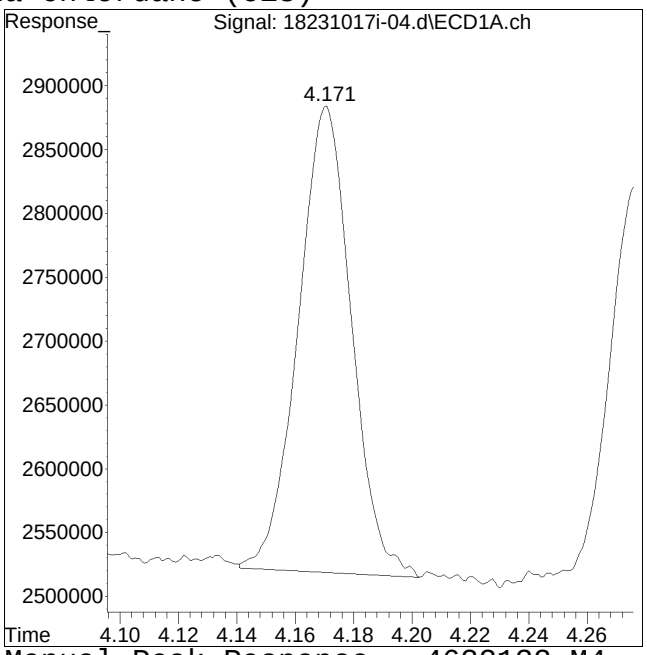
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 4939578



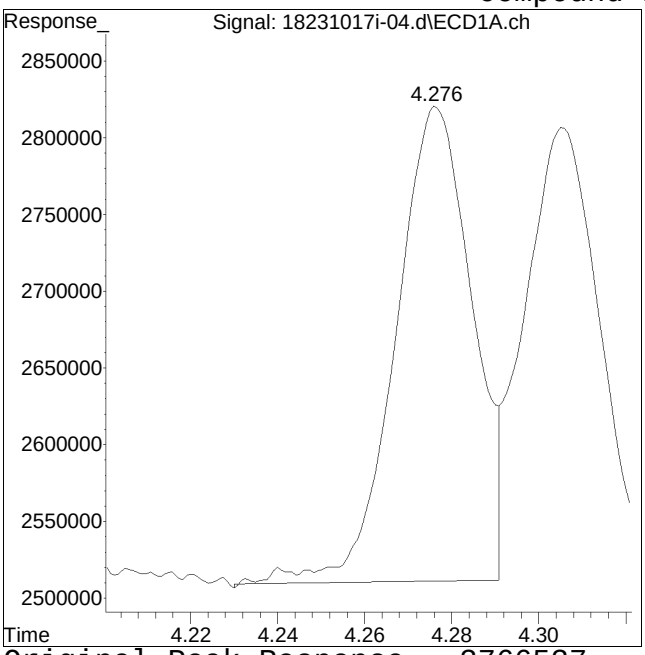
Manual Peak Response = 4622132 M4

M4 = Poor automated baseline construction.

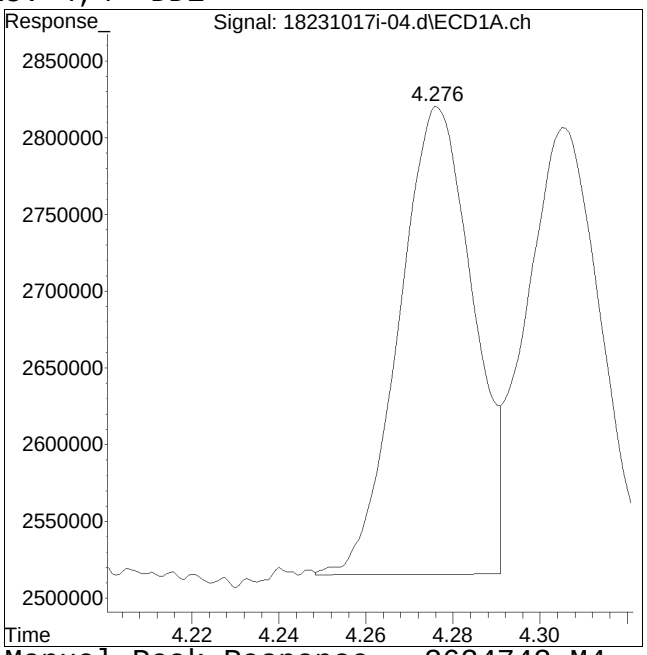
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #15: 4,4'-DDE



Original Peak Response = 3766537



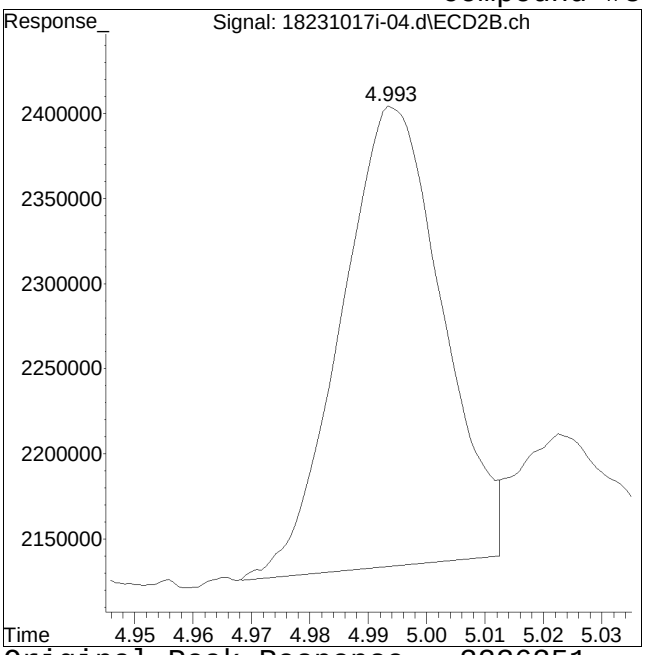
Manual Peak Response = 3624743 M4

M4 = Poor automated baseline construction.

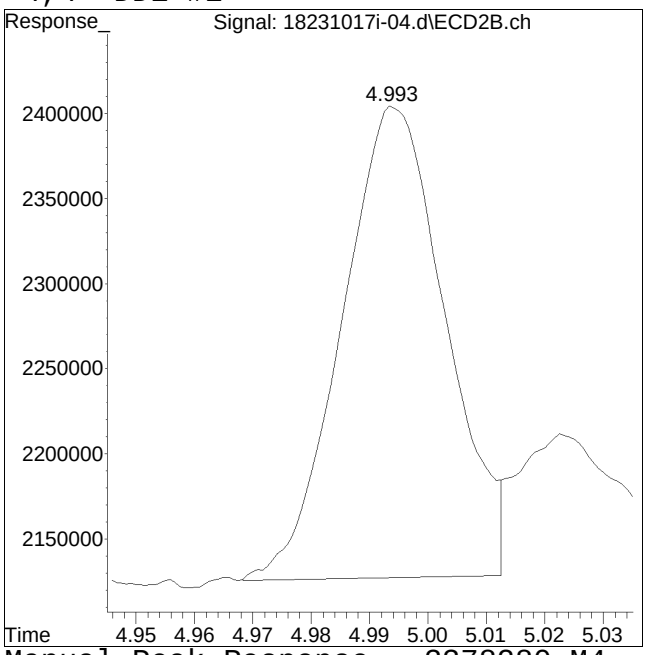
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #53: 4,4'-DDE #2



Original Peak Response = 3236351



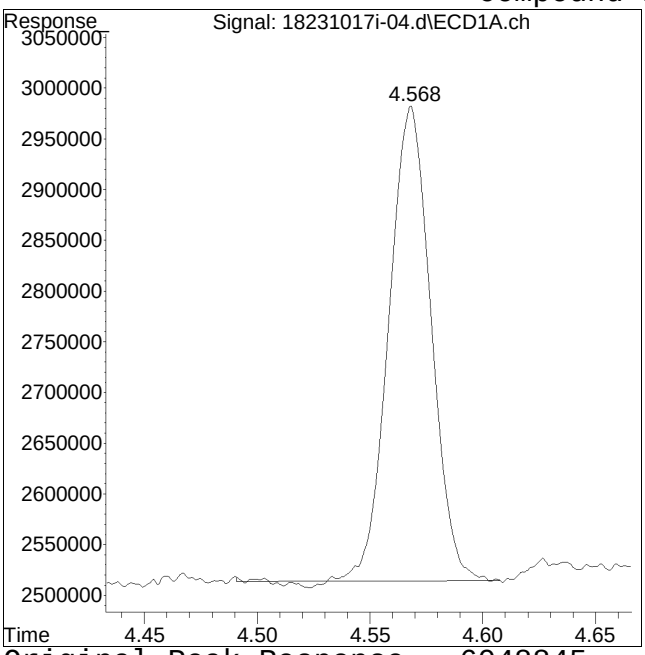
Manual Peak Response = 3378280 M4

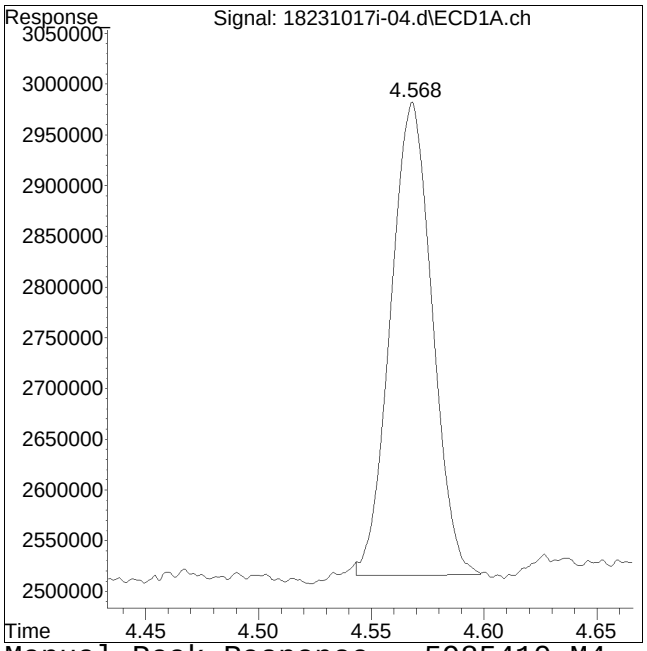
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #17: Dieldrin



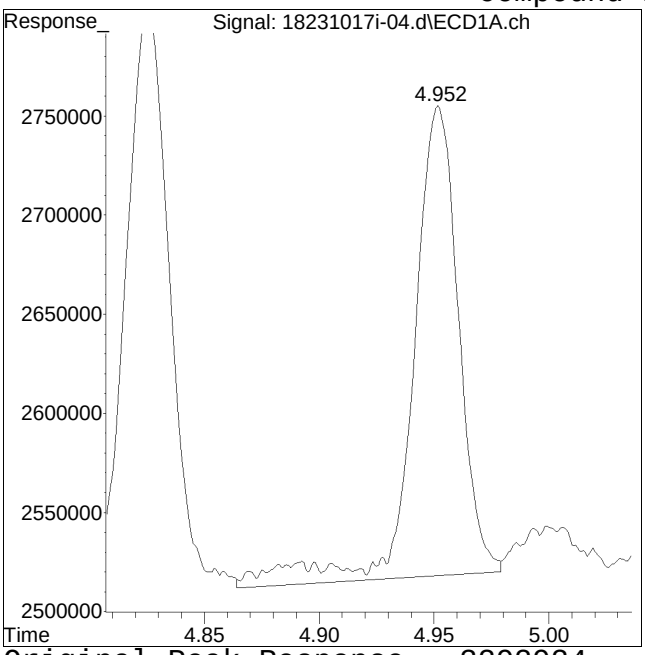


Original Peak Response = 6048845 Manual Peak Response = 5985410 M4
M4 = Poor automated baseline construction.

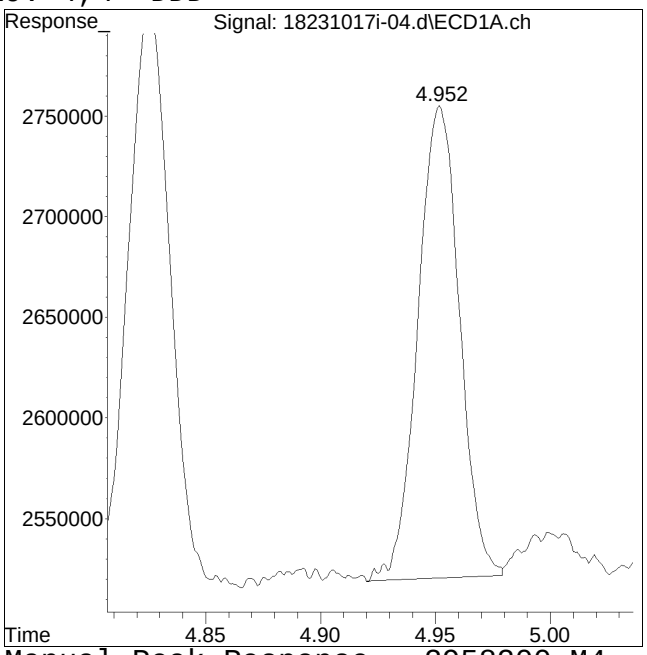
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #19: 4,4'-DDD



Original Peak Response = 3292924



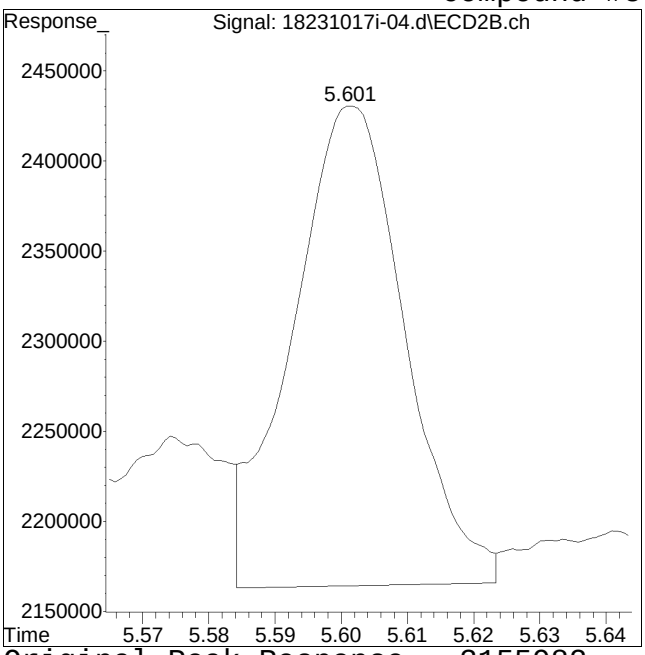
Manual Peak Response = 2958200 M4

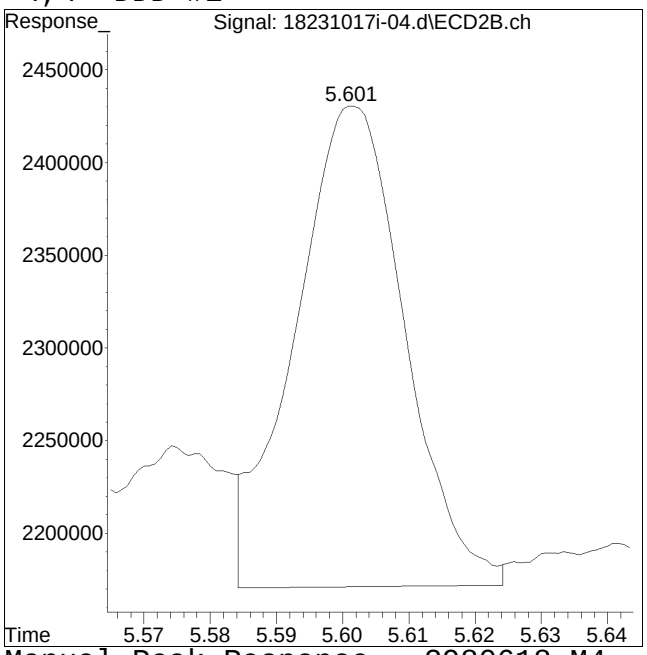
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #57: 4,4'-DDD #2



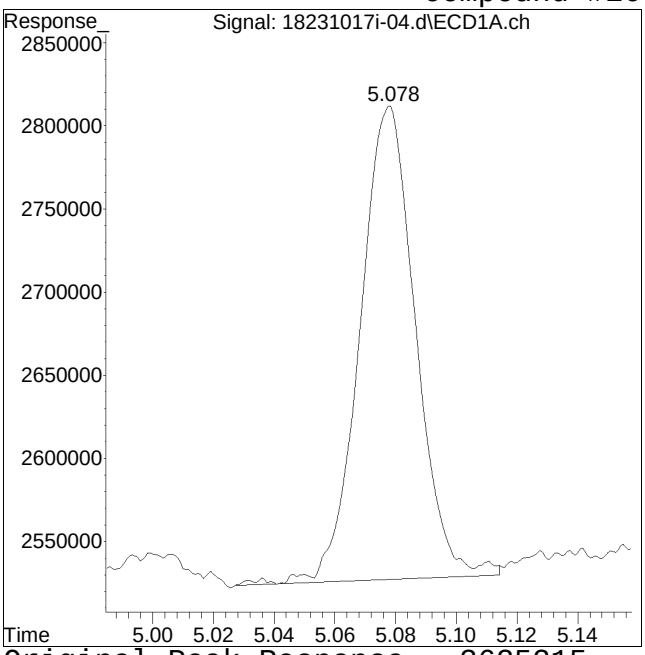


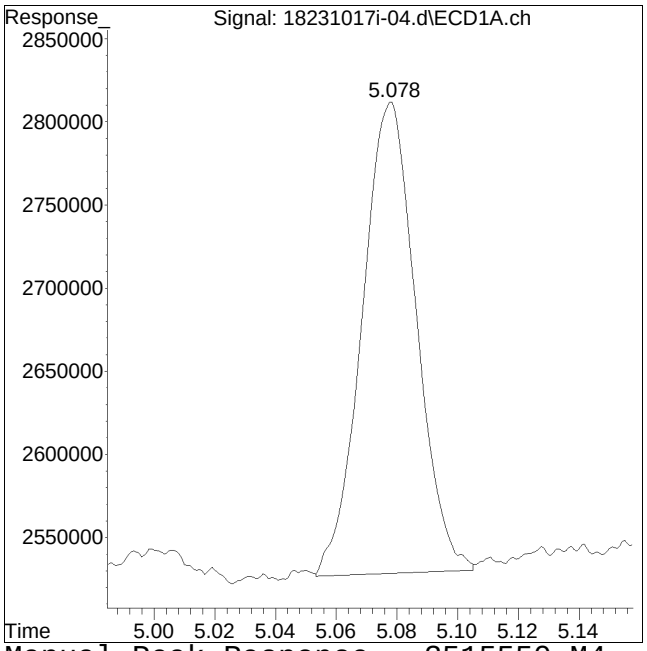
Original Peak Response = 3155982 Manual Peak Response = 2980618 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #20: Endosulfan II



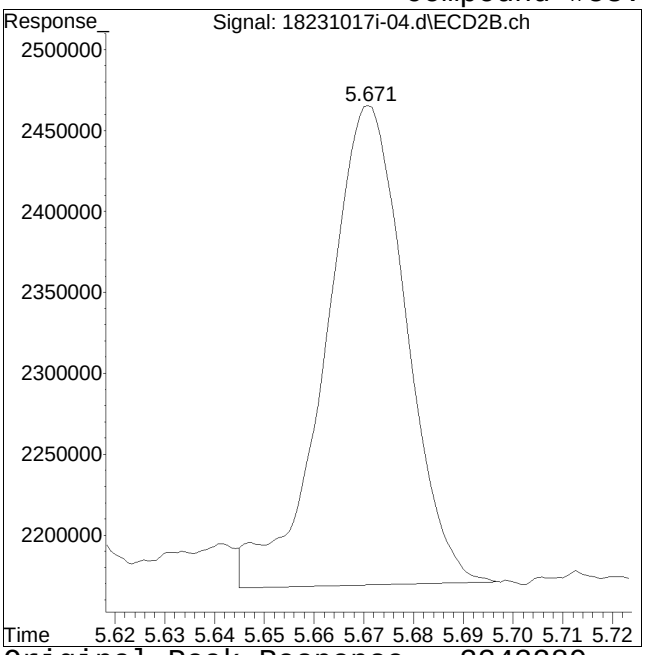


Original Peak Response = 3625215 Manual Peak Response = 3515550 M4
M4 = Poor automated baseline construction.

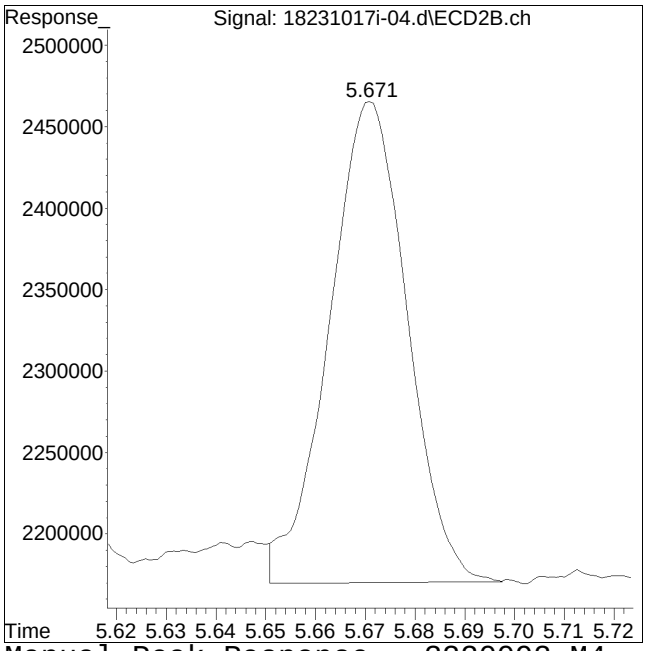
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #58: Endosulfan II #2



Original Peak Response = 3343289



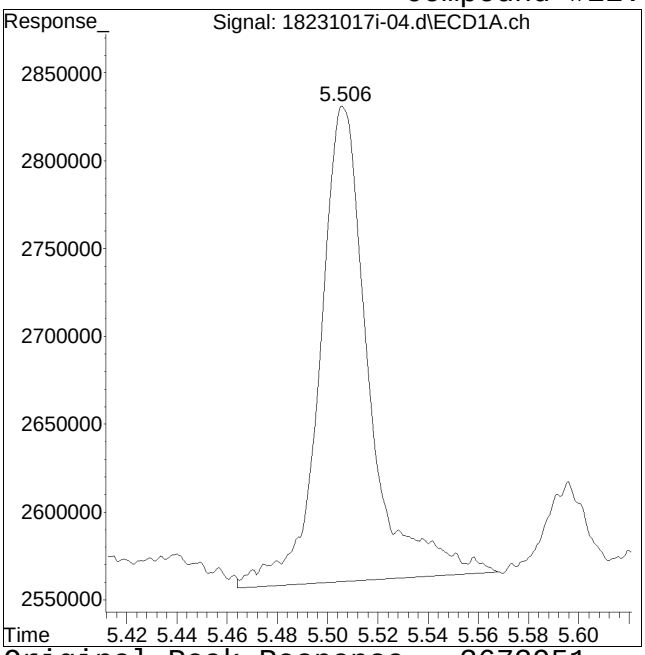
Manual Peak Response = 3220092 M4

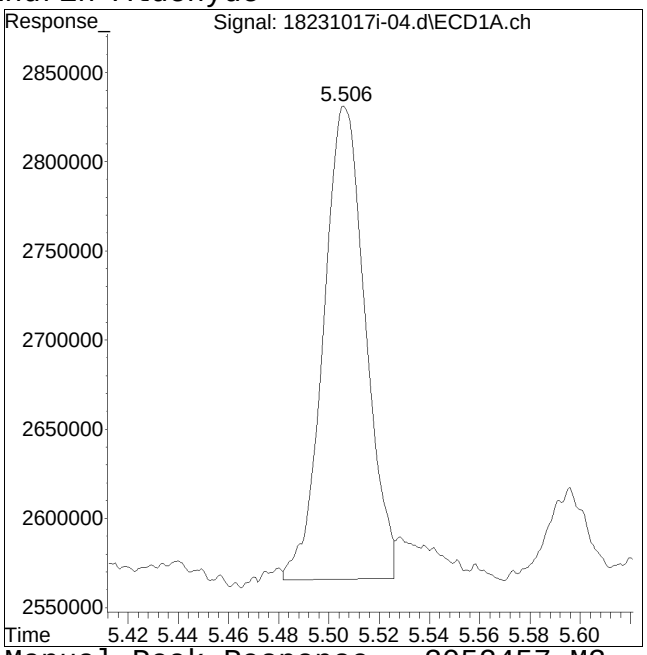
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #22: Endrin Aldehyde



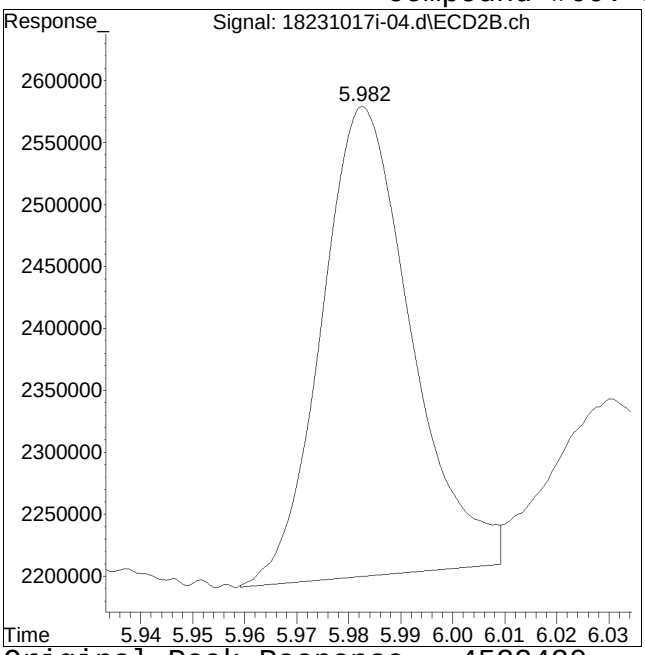


Original Peak Response = 3673951 Manual Peak Response = 3052457 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

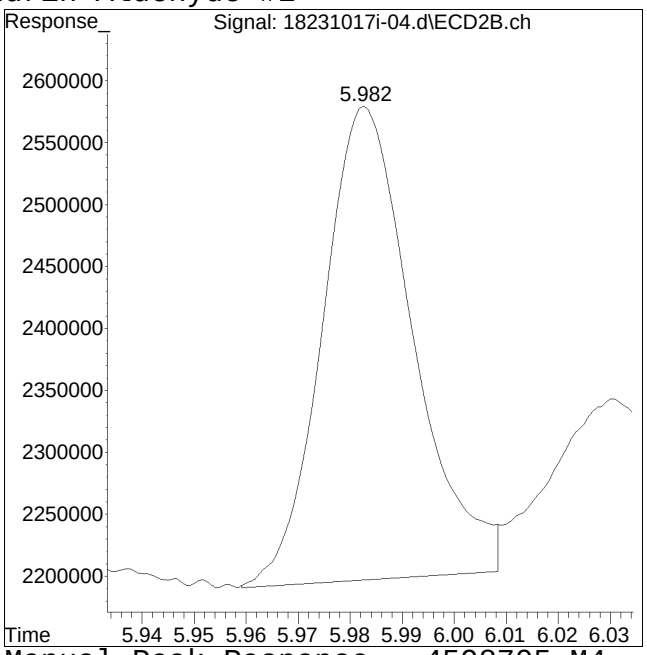
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 4522420



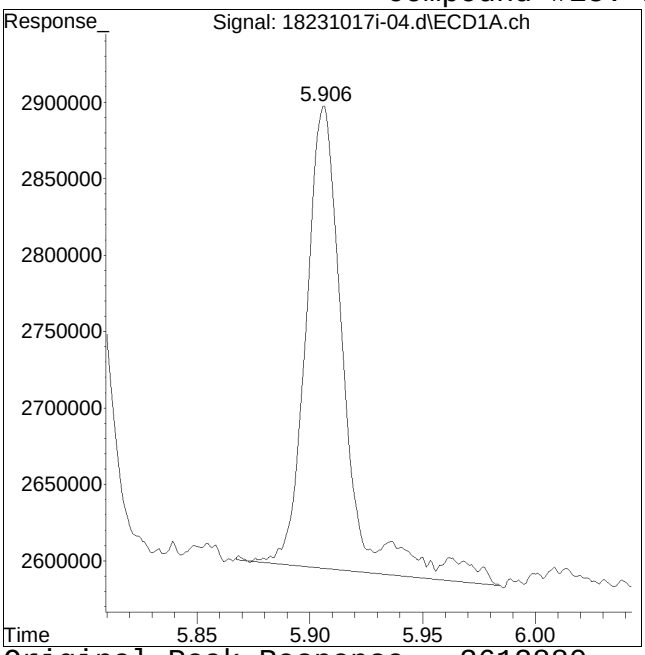
Manual Peak Response = 4598705 M4

M4 = Poor automated baseline construction.

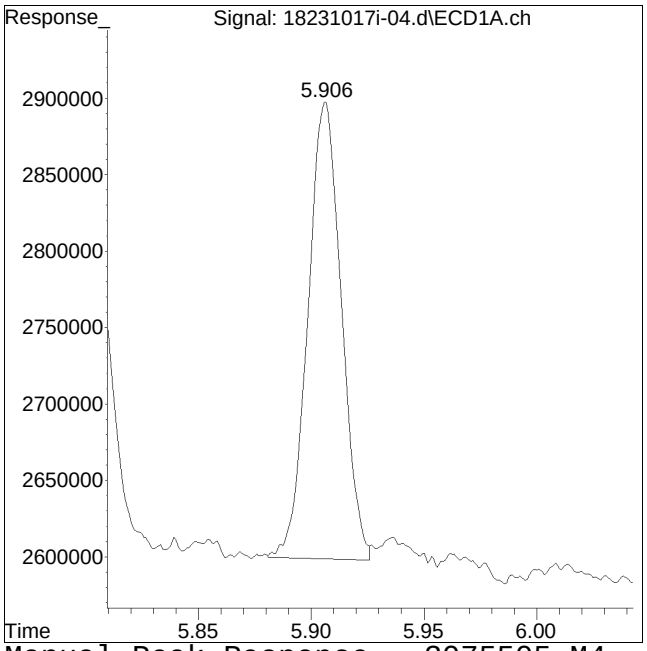
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 3612880



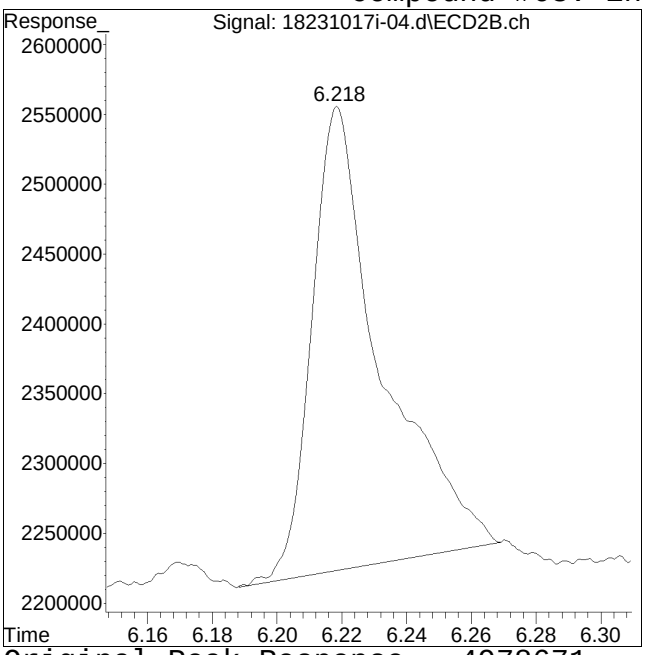
Manual Peak Response = 3075505 M4

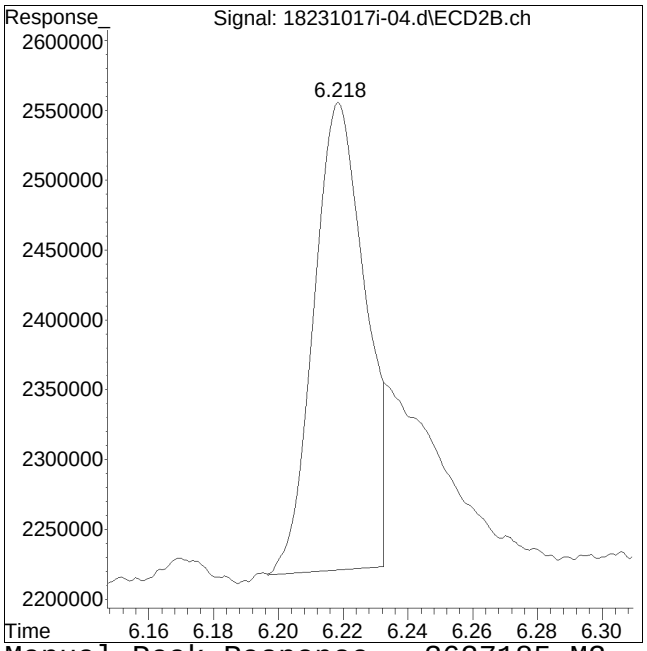
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #63: Endosulfan Sulfate #2



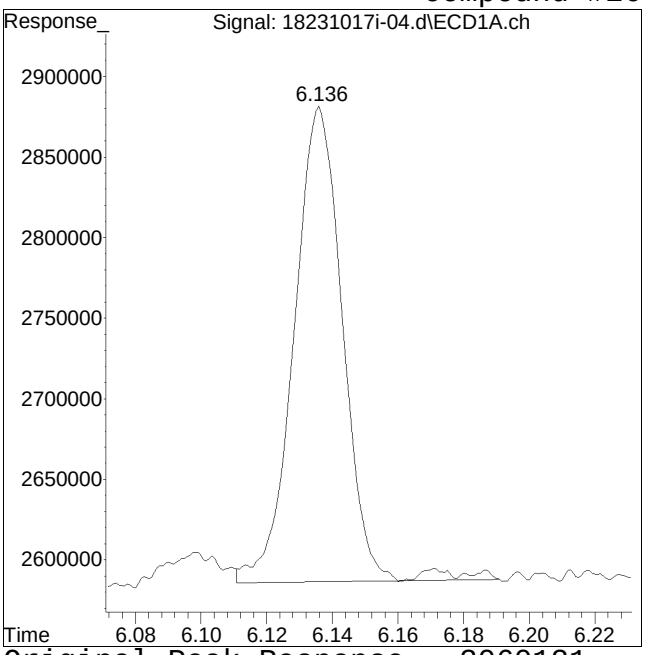


Original Peak Response = 4978671 Manual Peak Response = 3627185 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

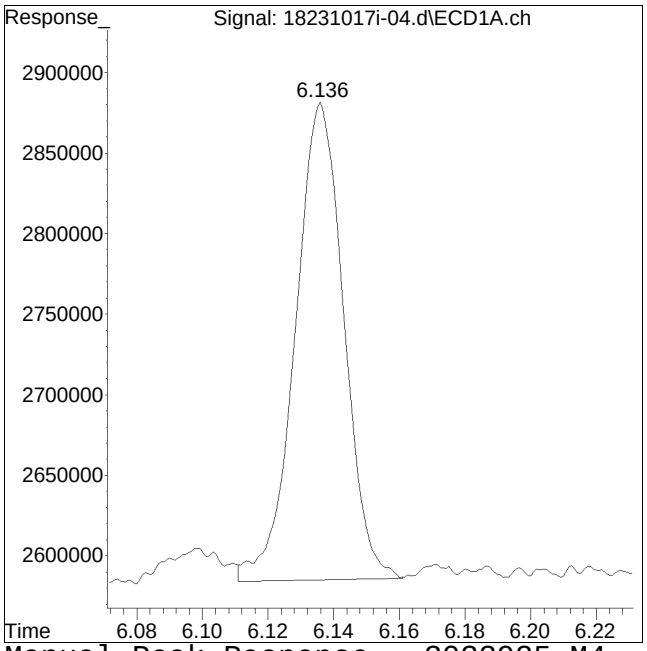
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-04.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:25 pm Instrument : Pest 18
Sample : il2pest,42e,,pp 11229 L0.0Quant Date : 10/20/2023 2:05 pm

Compound #26: Endrin Ketone



Original Peak Response = 3060121



Manual Peak Response = 3033925 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:37 pm
Operator : PEST18:ejl
Sample : il3pest,42e,,pp 11228 L0.002
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:50:17 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:31:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.721	1.770	82398626	72284205	25.000M3	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.155	2.320	7141000	6360220	2.094M4	2.093
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.19%#	4.19%#
27) s	Decachlorobi	6.954	7.527	10187564	6667931	2.831M4	2.449
	Spiked Amount 50.000	Range 30 - 150		Recovery =		5.66%#	4.90%#
	Target Compounds						
3)	Hexachlorobe	2.397	2.657	8572968	8038399	2.263M4	2.303
4)	alpha-BHC	2.510	2.762	8417032	7558587	1.906M4	1.909
5)	gamma-BHC (l	2.730	3.053	7970946	7349198	1.960M4	2.008
6)	beta-BHC	2.798	3.129	4228531	3891407	2.169M3	2.222
7)	delta-BHC	2.934	3.396	8057066	7348346	1.946M4	1.988
8)	Heptachlor	3.096	3.448	8197216	7639839	2.131M4	2.158
9)	Aldrin	3.345	3.764	7647544	6992320	2.024M4	2.037
10)	Alachlor	3.484	3.665	1586476	1236838	2.431M4	2.384M4
11)	Chlorpyrifos	3.581	4.018	4846957	4470420	2.482	2.457
12)	Heptachlor E	3.907	4.379	7813564	7264433	2.139M4	2.172M4
13)	gamma-Chlord	4.034	4.599	9380303	6786075	2.621M4	2.233
14)	alpha-Chlord	4.170	4.773	8559055	7538938	2.252M3	2.219M4
15)	4,4'-DDE	4.277	4.993	7427747	6943469	1.992M4	2.051M4
16)	Endosulfan I	4.306	4.835	7458326	6815373	2.155	2.171
17)	Dieldrin	4.569	5.147	7829305	6790358	2.121M4	2.111
18)	Endrin	4.825	5.459	7674934	6772379	2.026M4	2.087
19)	4,4'-DDD	4.952	5.601	5908340	5464548	1.975M4	2.030M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:37 pm
Operator : PEST18:ejl
Sample : il3pest,42e,,pp 11228 L0.002
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:50:17 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:31:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	5.077	5.670	7019022	6369456	2.118M4	2.160M4
21)	4,4'-DDT	5.251	5.888	3735911	4176908	1.500M4	1.729M4
22)	Endrin Aldeh	5.506	5.981	6284587	6296971	2.223M4	2.442M4
23)	Methoxychlor	5.756	6.476	2293492	2605138	1.652M4	1.943M4
24)	Mirex	5.801	6.597	7503242	6369774	2.471M4	2.519M3
25)	Endosulfan S	5.906	6.218	6675279	6295537	2.140M4	2.306
26)	Endrin Keton	6.137	6.637	6009977	5705806	1.932M3	2.036
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:37 pm
Operator : PEST18:ejl
Sample : il3pest,42e,,pp 11228 L0.002
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:50:17 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:31:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

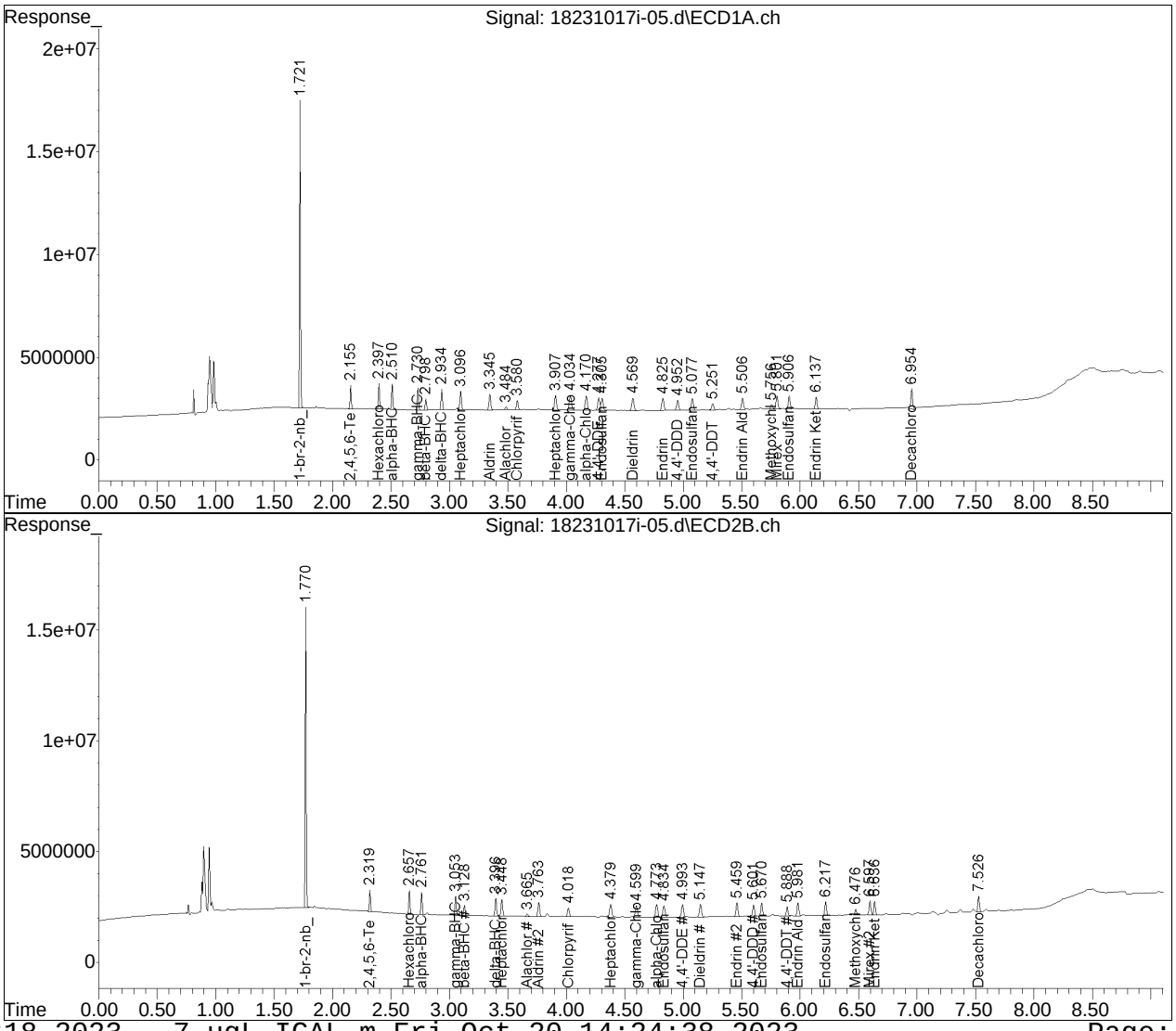
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:37 pm
Operator : PEST18:ejl
Sample : il3pest,42e,,pp 11228 L0.002
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:50:17 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:31:32 2023
Response via : Initial Calibration
Integrator: ChemStation

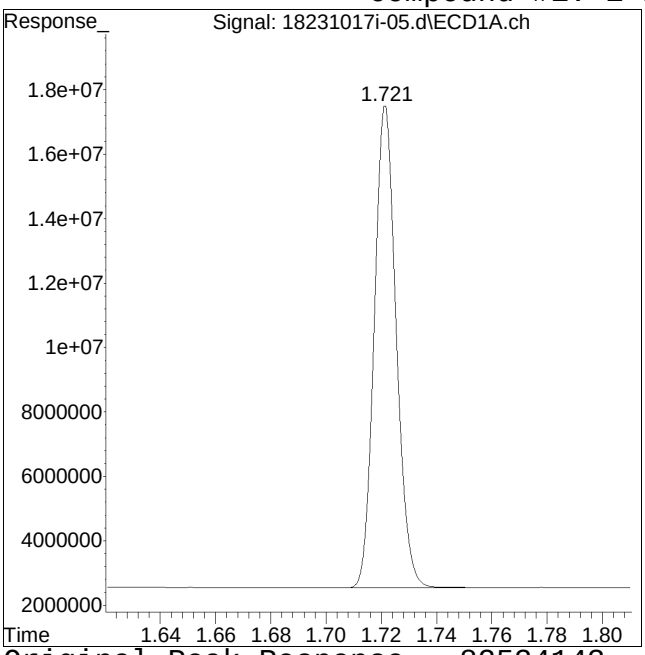
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

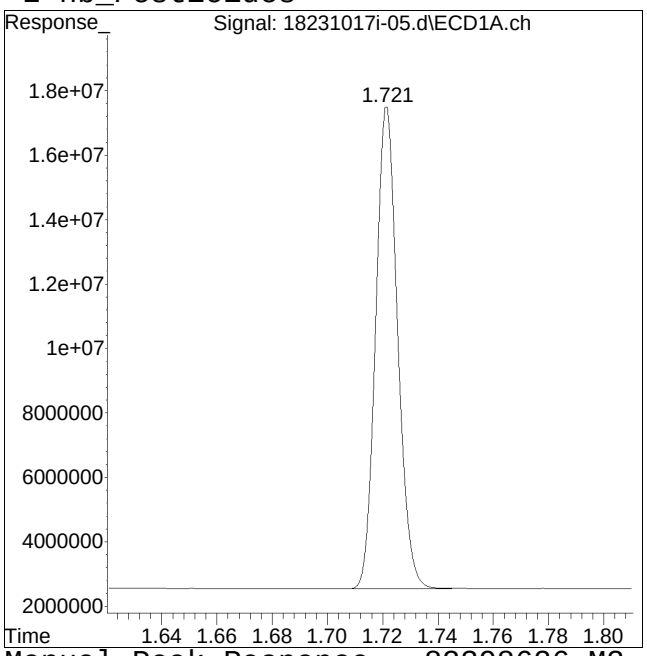


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #1: 1-br-2-nb_Pesticides



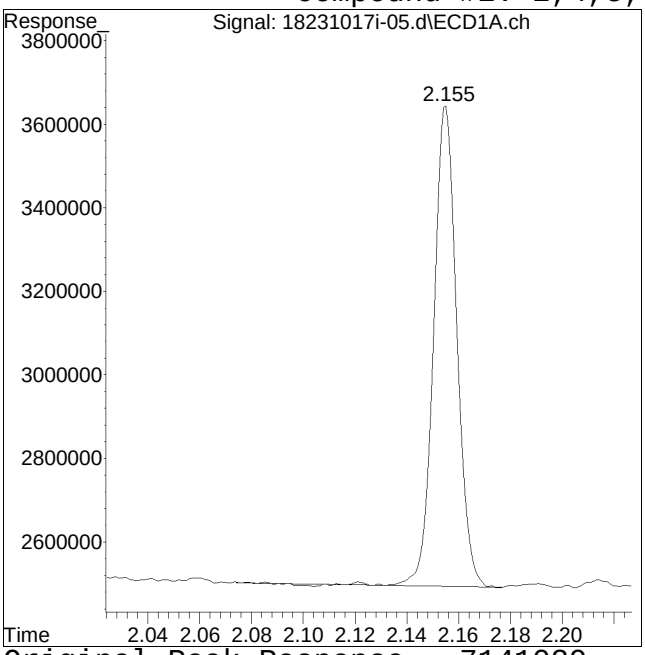


Original Peak Response = 82534143 Manual Peak Response = 82398626 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

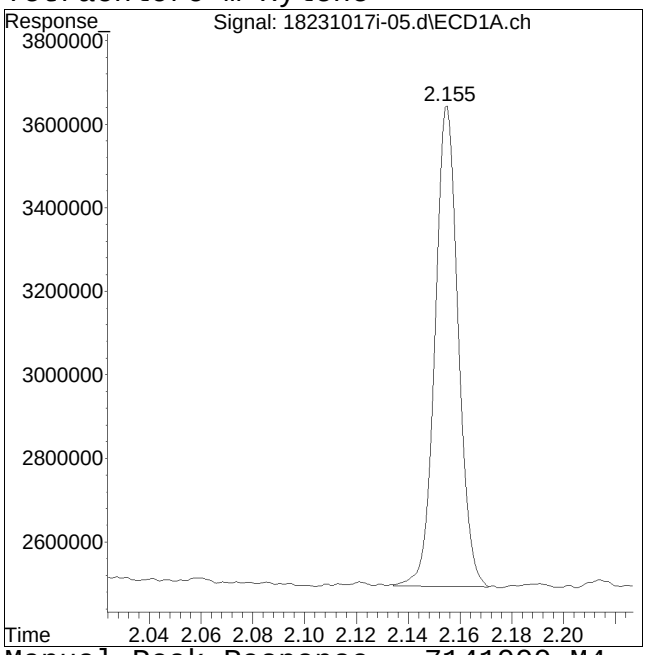
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 7141029



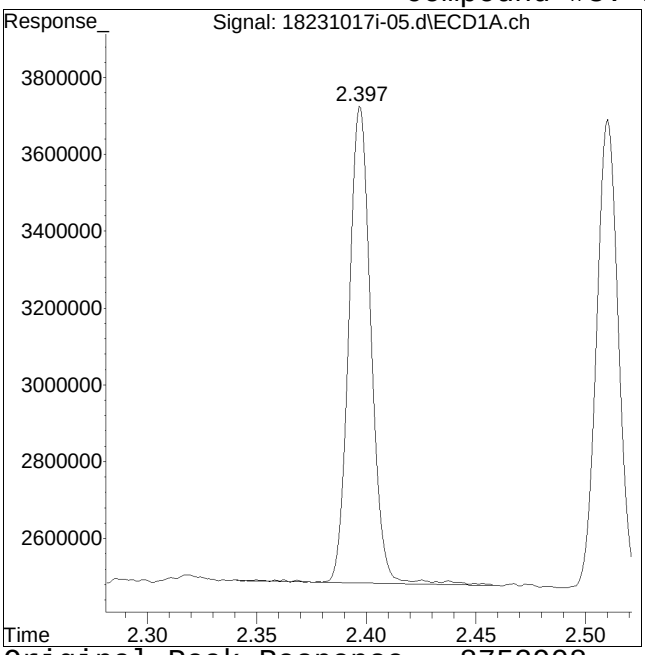
Manual Peak Response = 7141000 M4

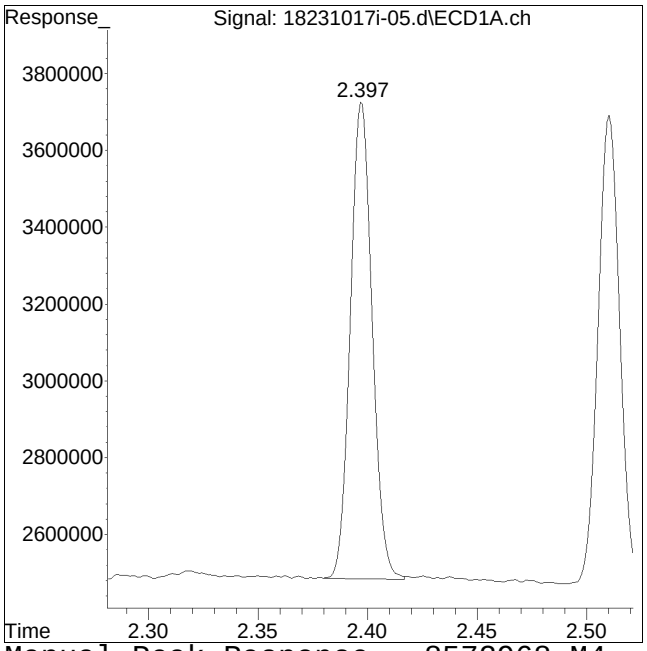
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #3: Hexachlorobenzene



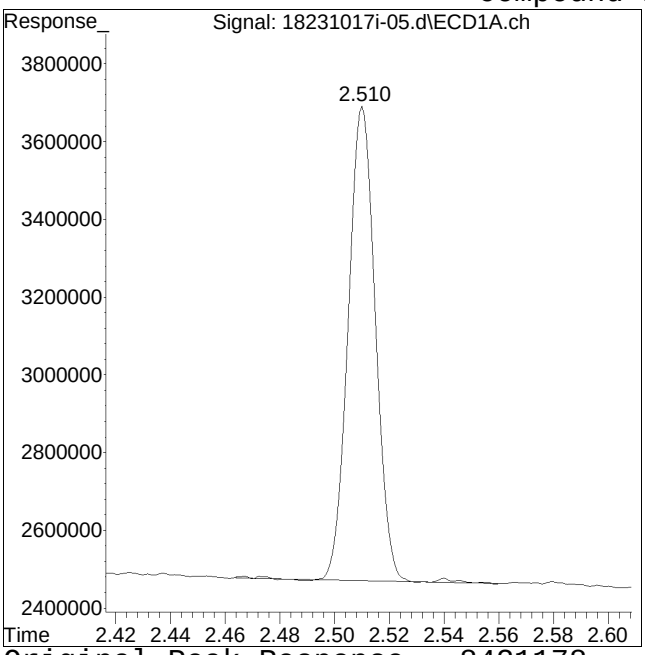


Original Peak Response = 8752908 Manual Peak Response = 8572968 M4
M4 = Poor automated baseline construction.

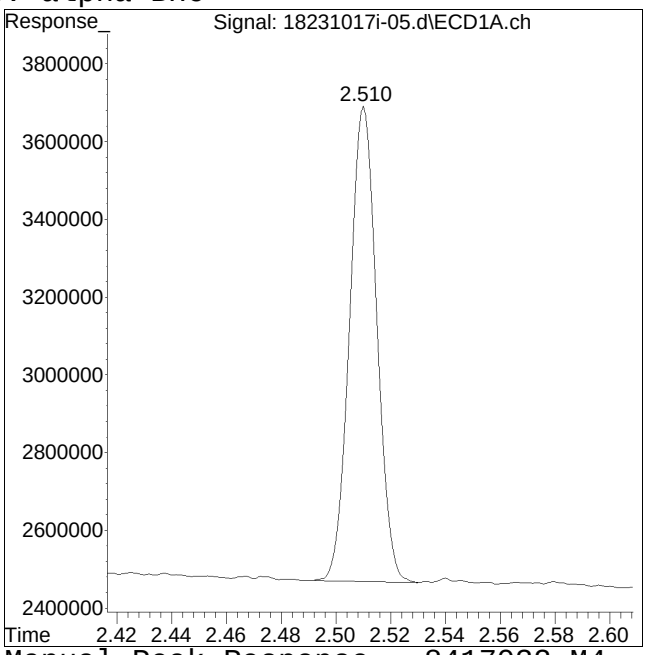
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #4: alpha-BHC



Original Peak Response = 8421178



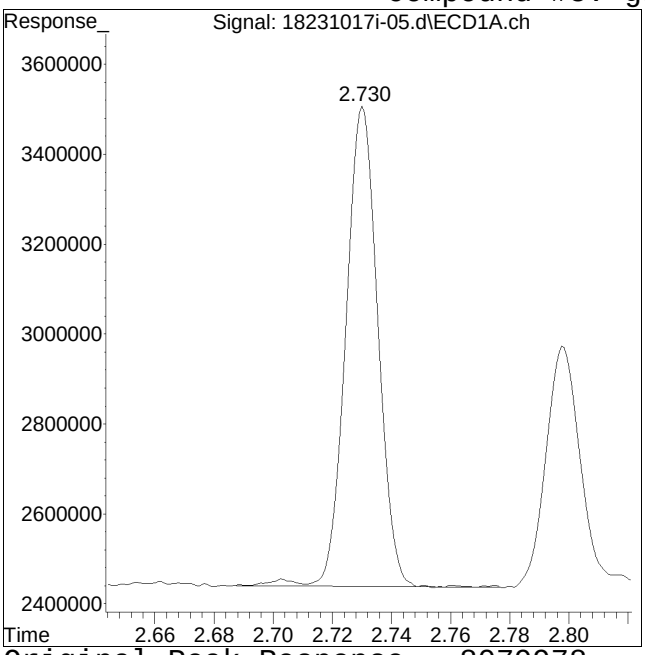
Manual Peak Response = 8417032 M4

M4 = Poor automated baseline construction.

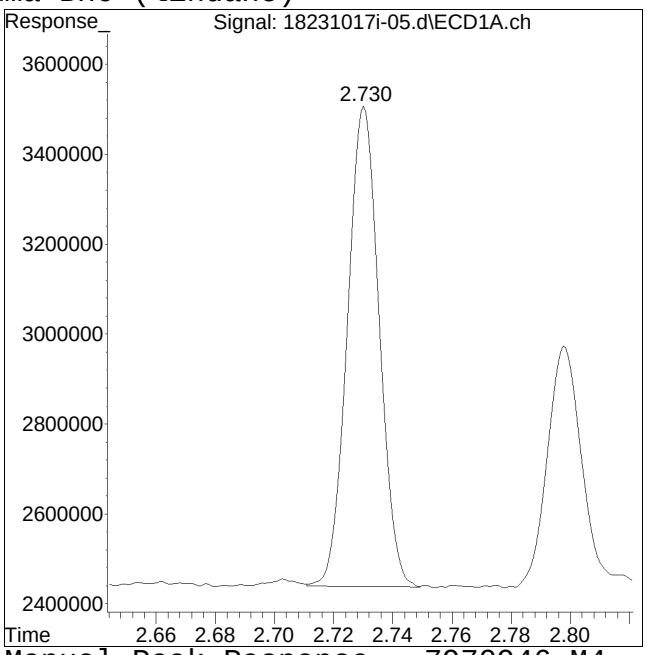
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #5: gamma-BHC (lindane)



Original Peak Response = 8079978



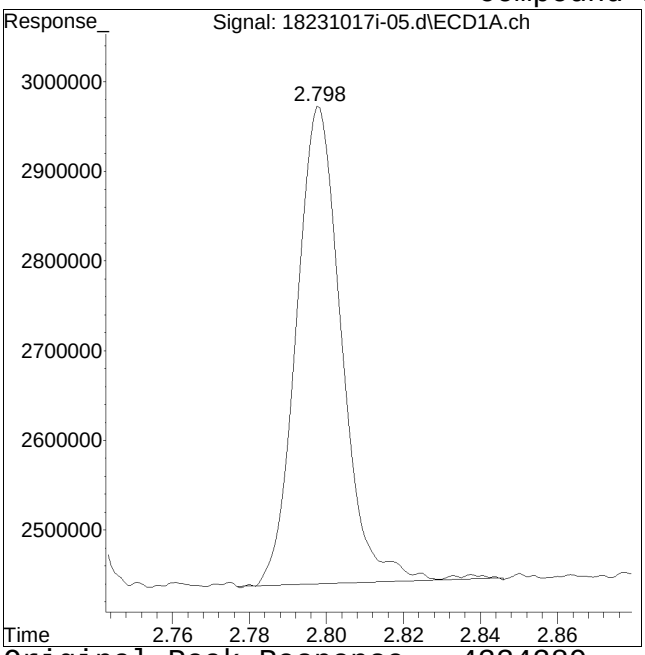
Manual Peak Response = 7970946 M4

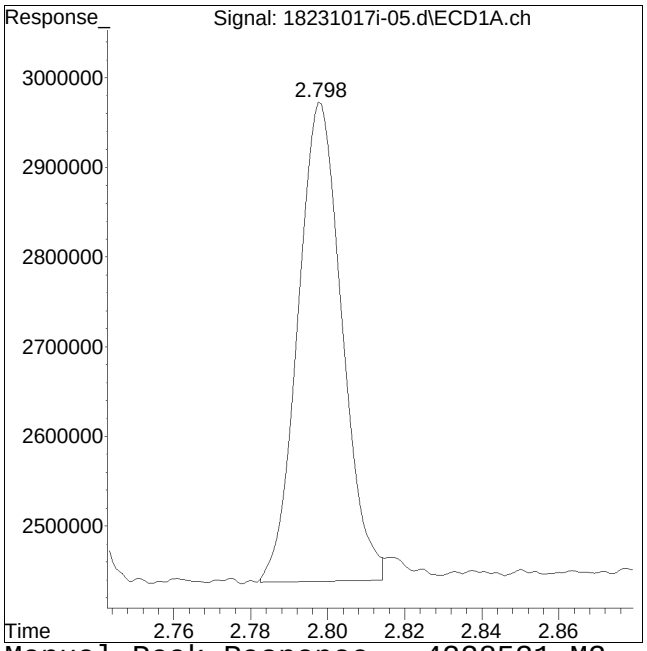
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #6: beta-BHC



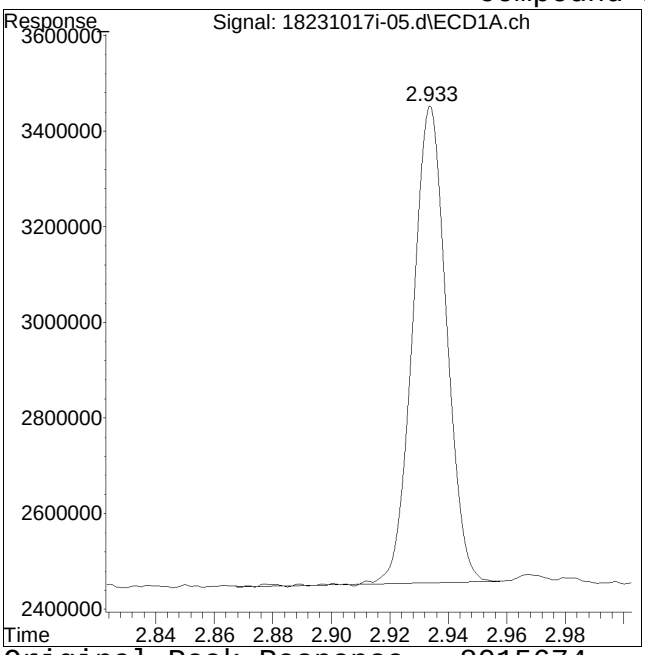


Original Peak Response = 4334389 Manual Peak Response = 4228531 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

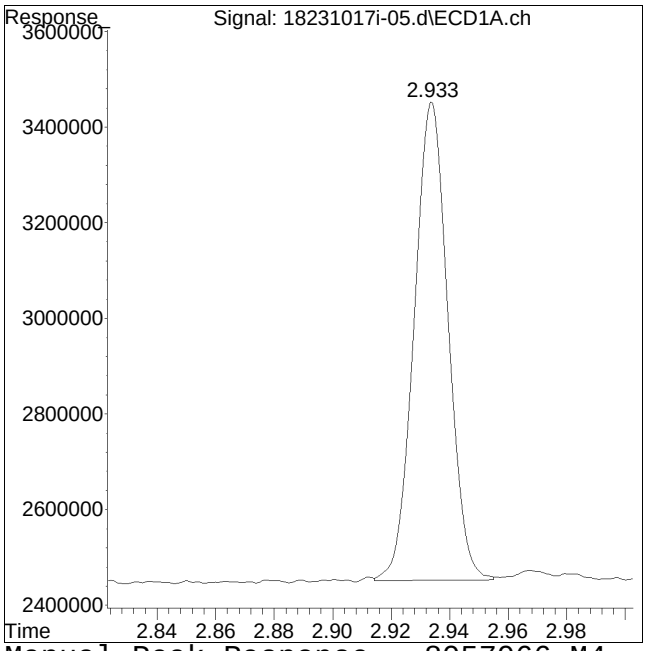
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #7: delta-BHC



Original Peak Response = 8015674



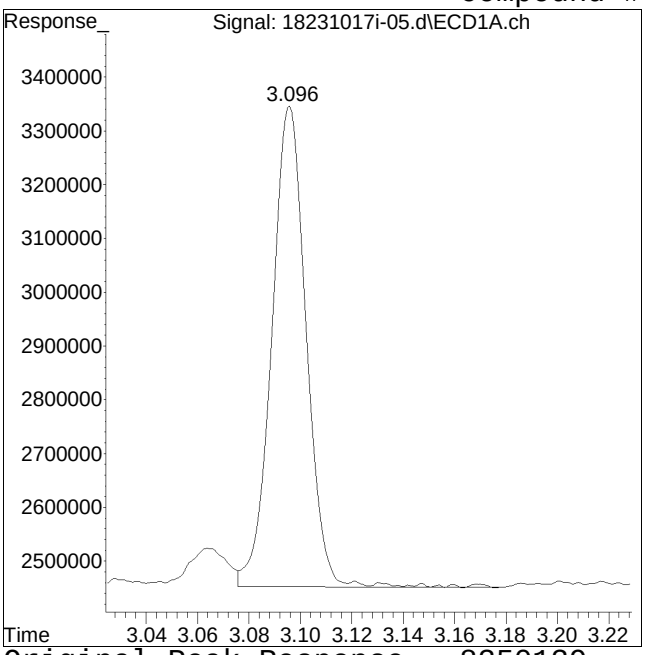
Manual Peak Response = 8057066 M4

M4 = Poor automated baseline construction.

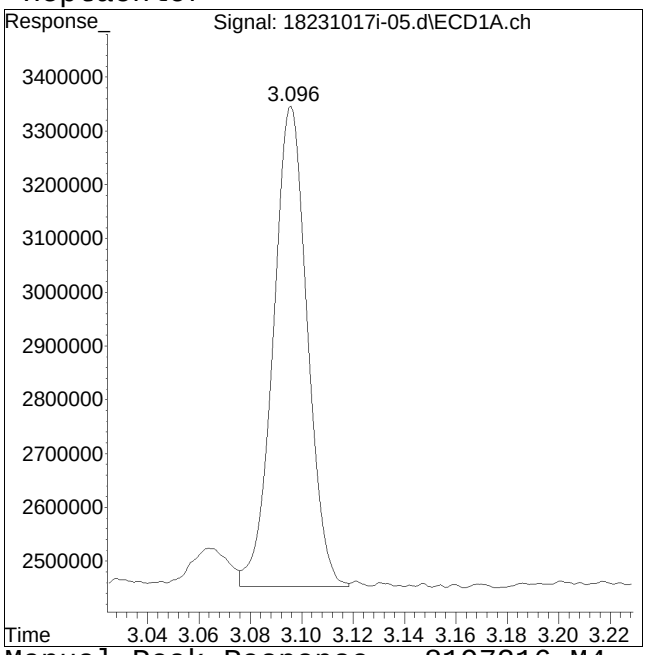
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #8: Heptachlor



Original Peak Response = 8350139



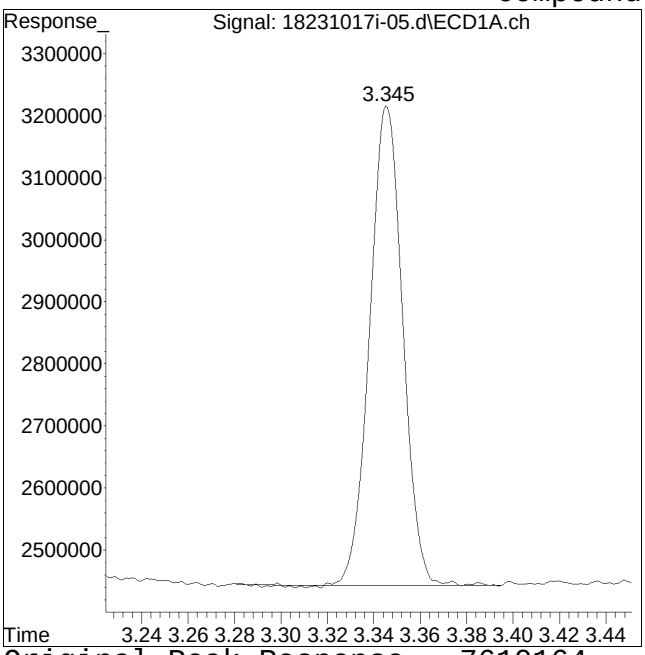
Manual Peak Response = 8197216 M4

M4 = Poor automated baseline construction.

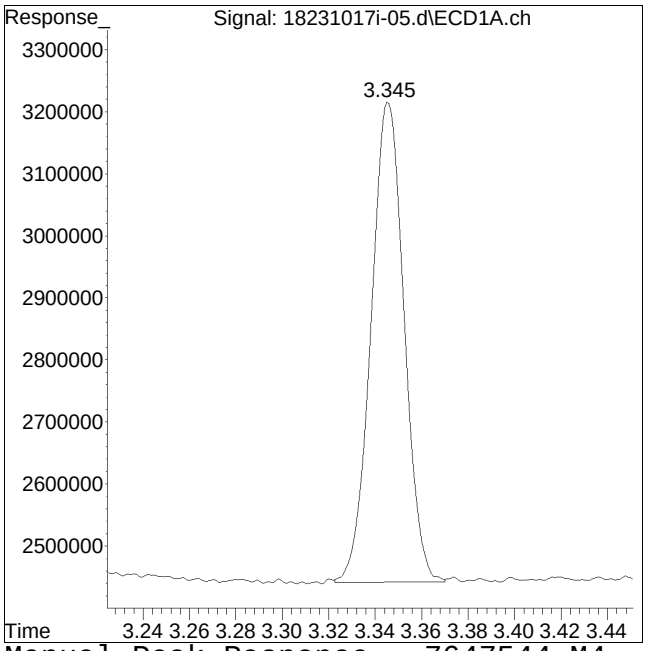
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #9: Aldrin



Original Peak Response = 7610164



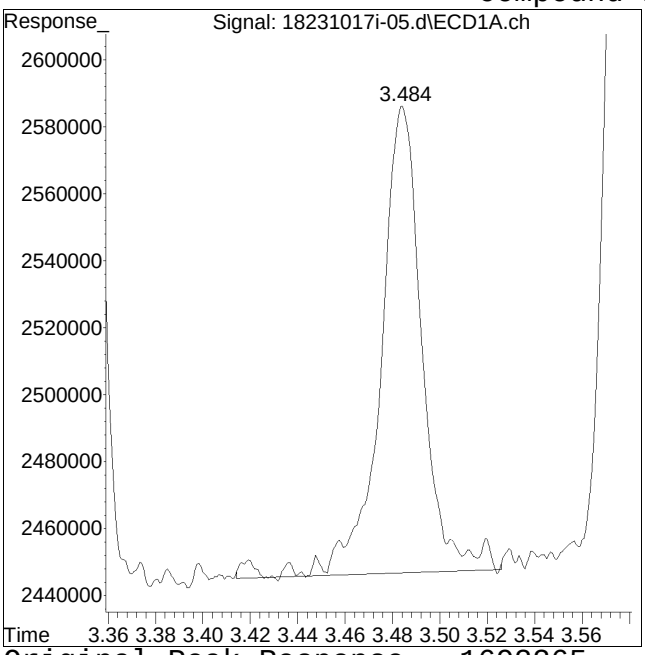
Manual Peak Response = 7647544 M4

M4 = Poor automated baseline construction.

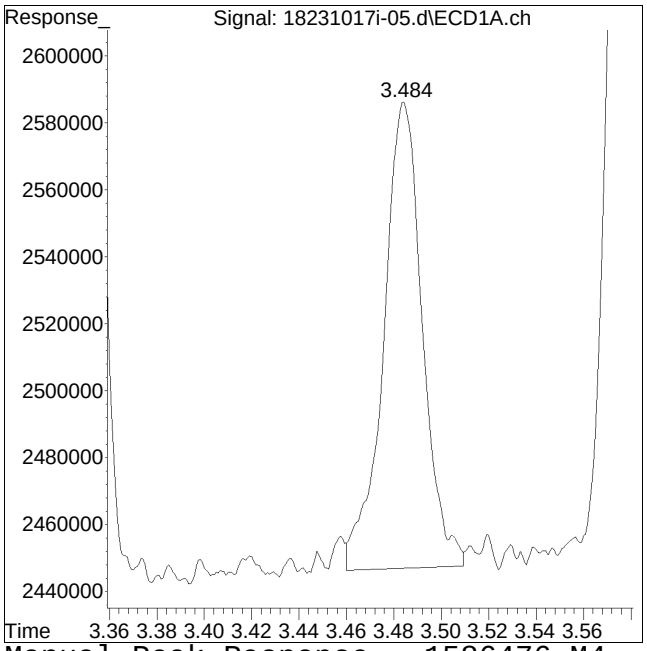
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #10: Alachlor



Original Peak Response = 1692265



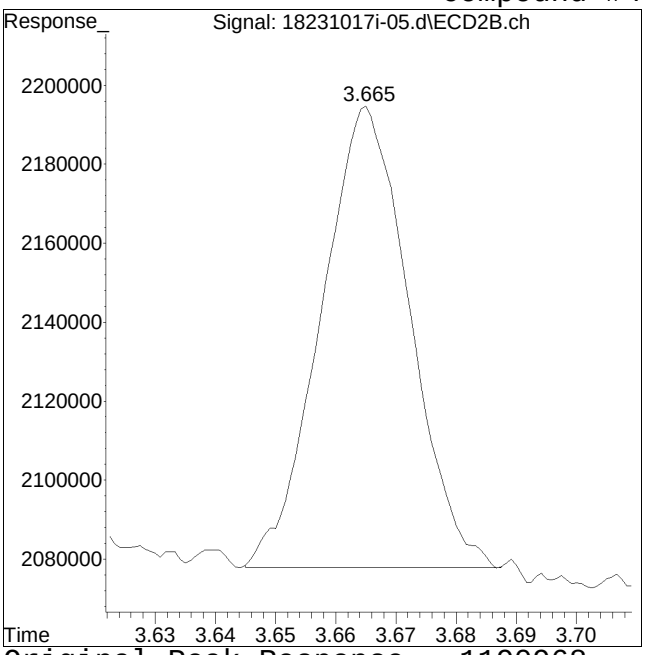
Manual Peak Response = 1586476 M4

M4 = Poor automated baseline construction.

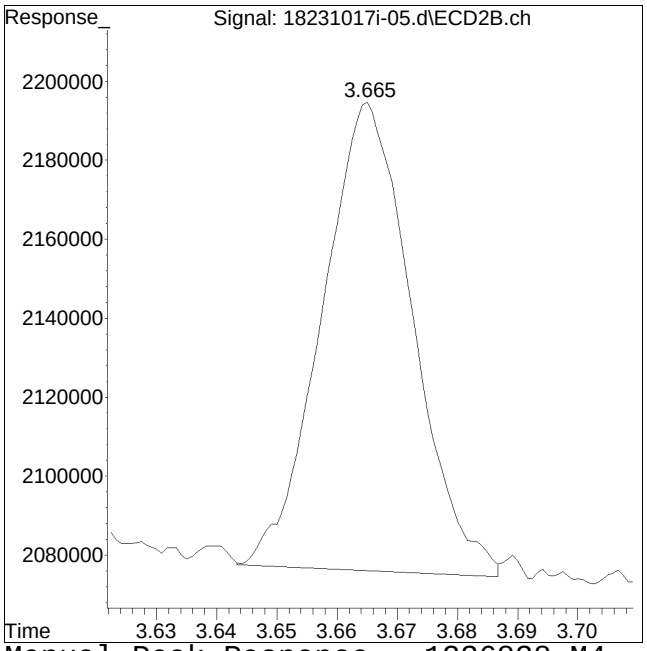
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #48: Alachlor #2



Original Peak Response = 1190968



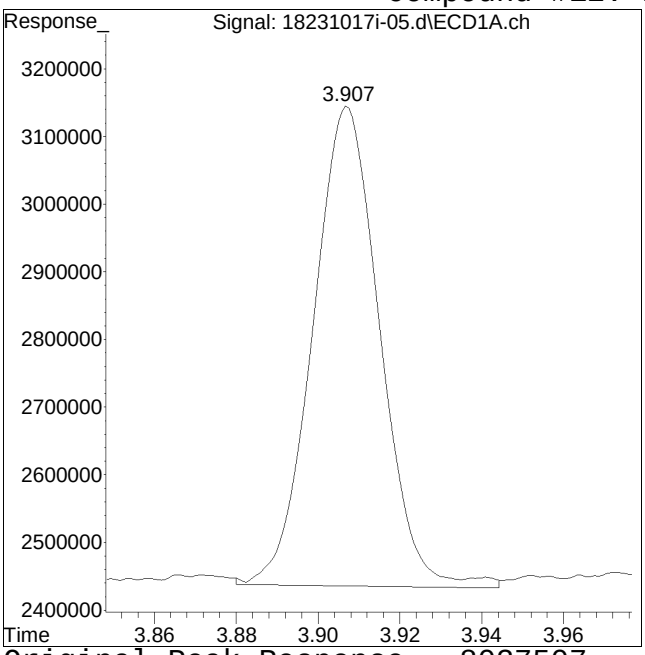
Manual Peak Response = 1236838 M4

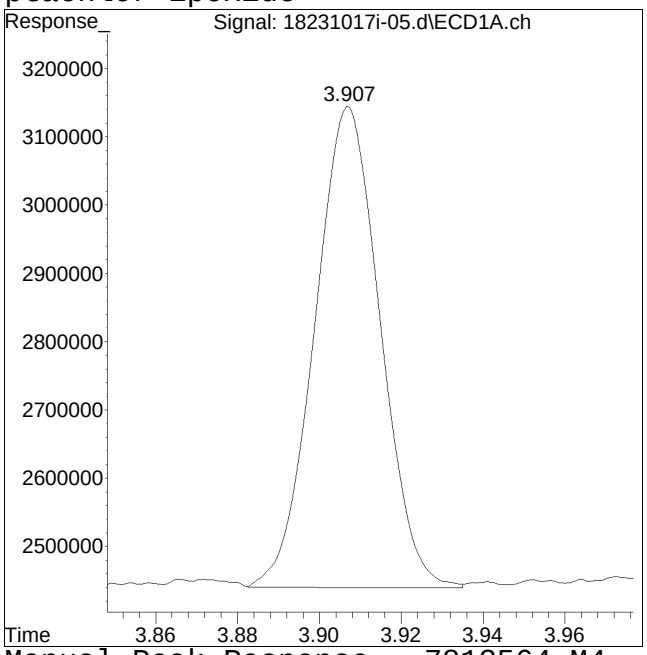
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #12: Heptachlor Epoxide



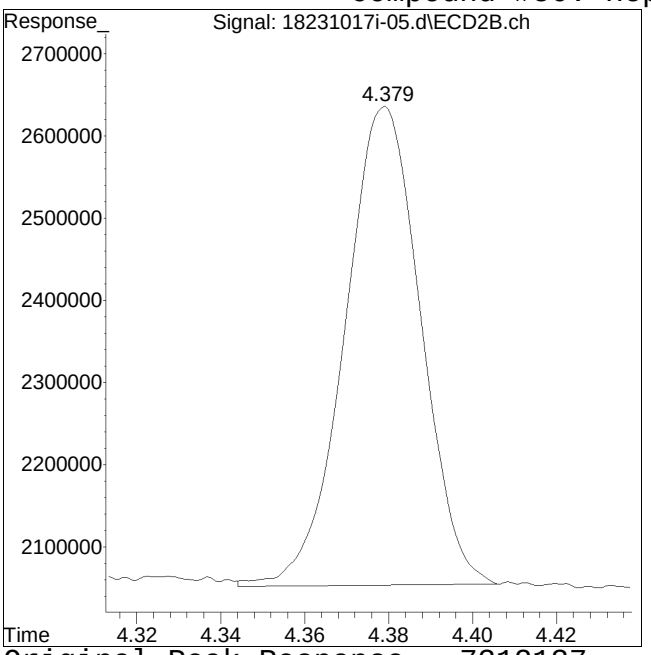


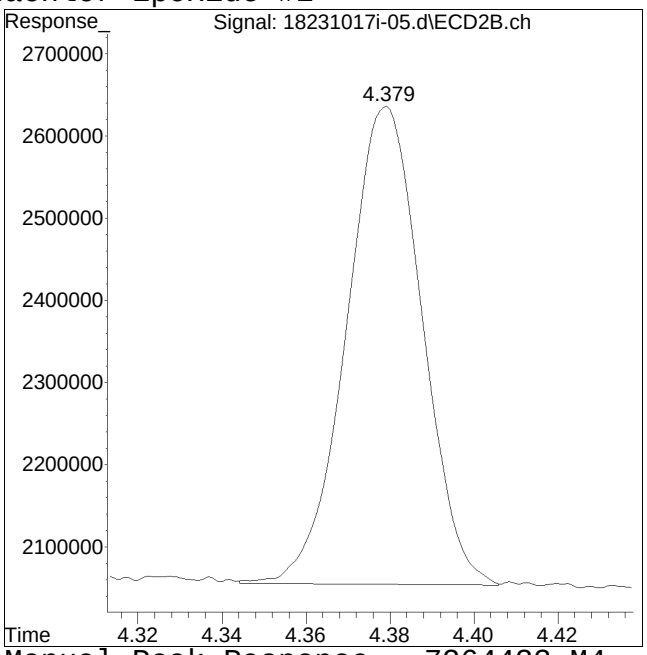
Original Peak Response = 8037507 Manual Peak Response = 7813564 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #50: Heptachlor Epoxide #2



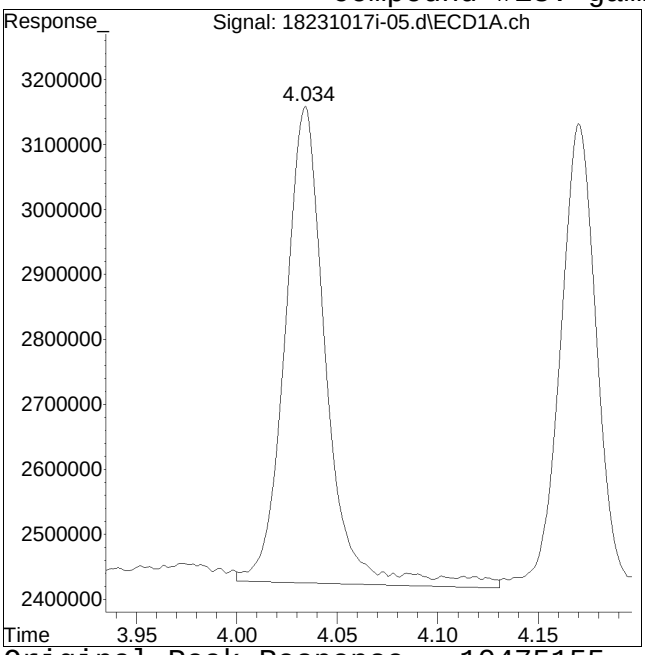


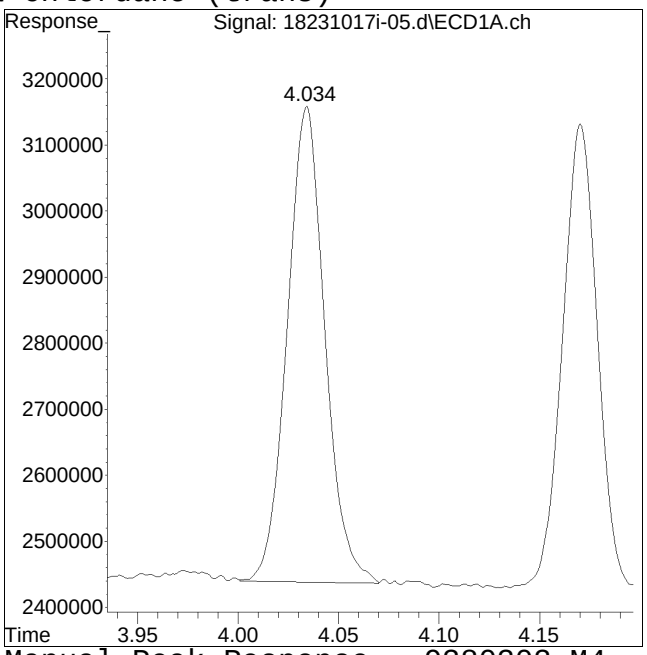
Original Peak Response = 7312137 Manual Peak Response = 7264433 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #13: gamma-Chlordane (trans)



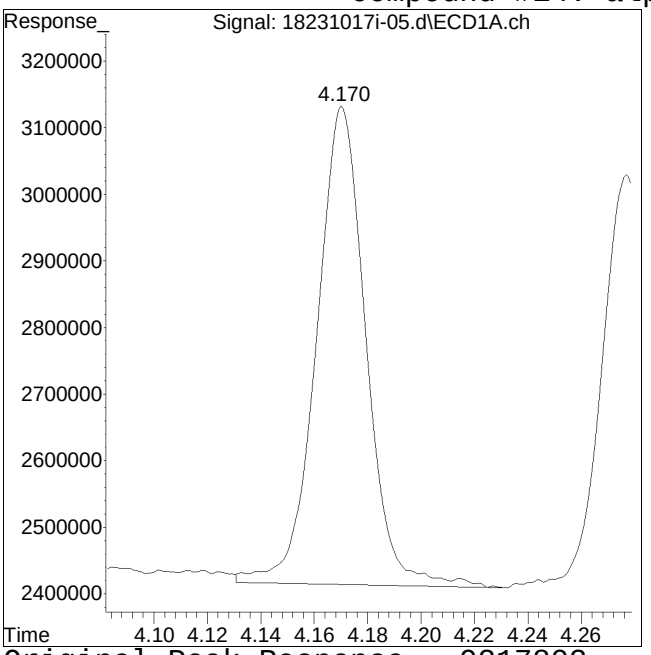


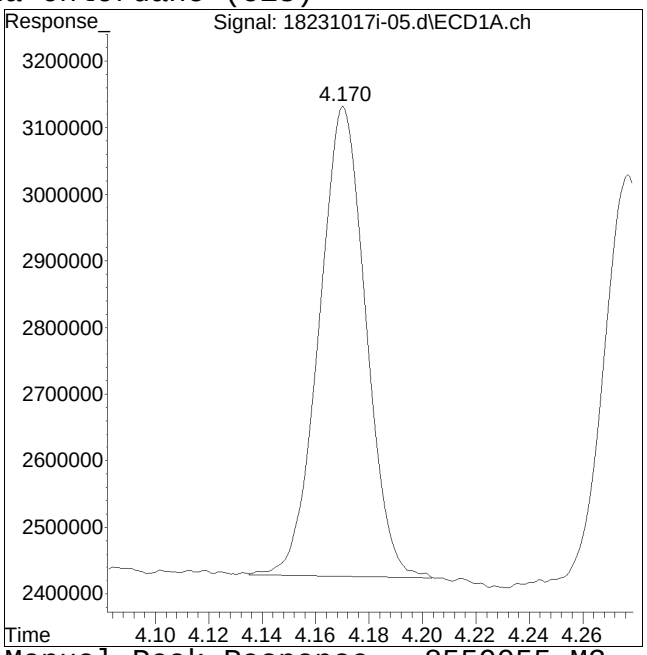
Original Peak Response = 10475155 Manual Peak Response = 9380303 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #14: alpha-Chlordane (cis)



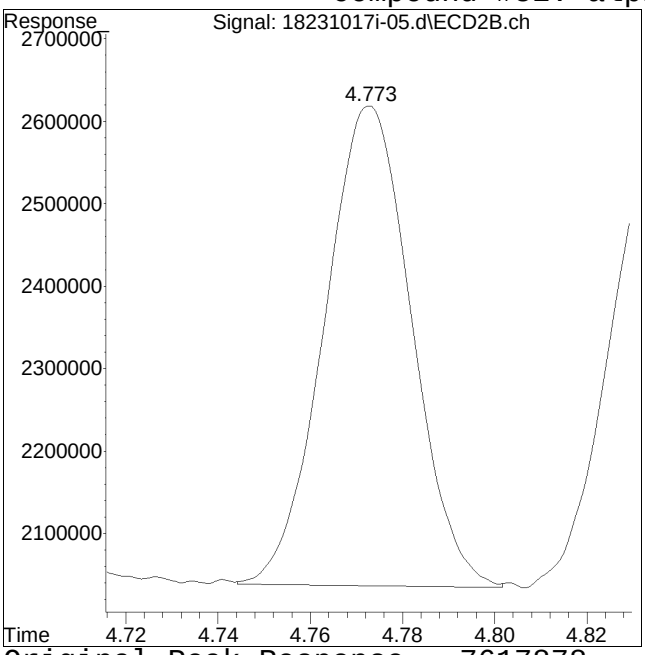


Original Peak Response = 9217803 Manual Peak Response = 8559055 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

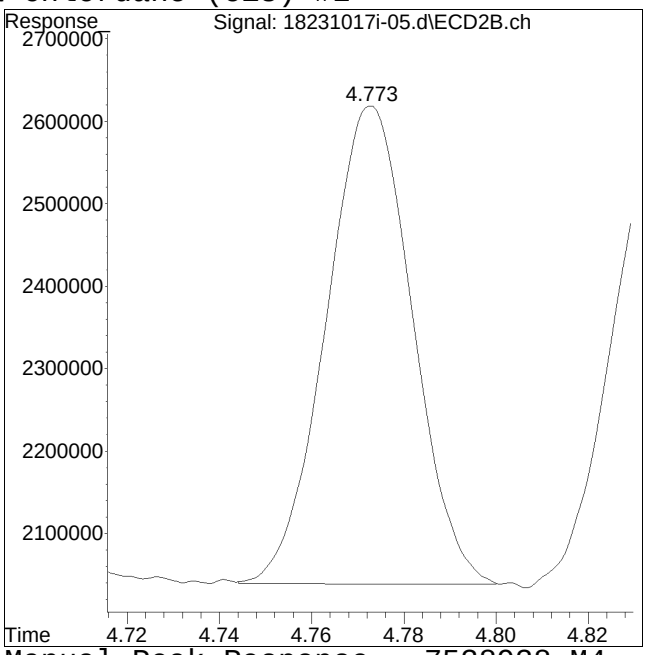
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 7617878



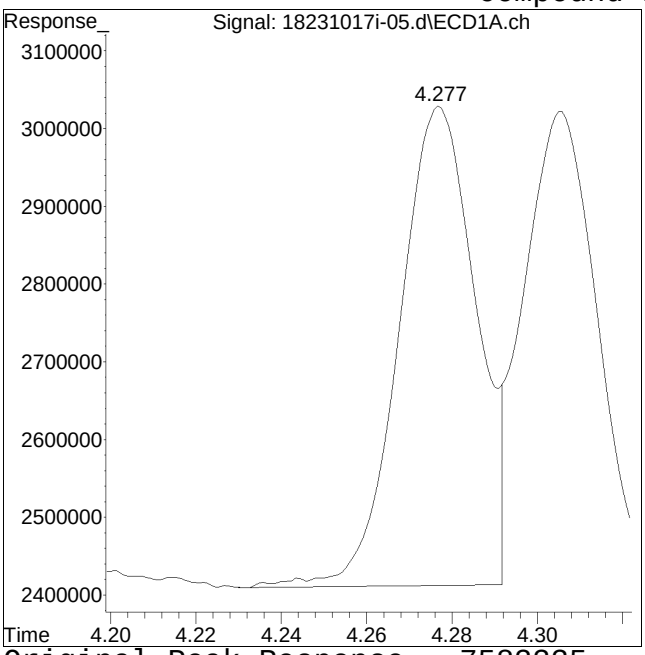
Manual Peak Response = 7538938 M4

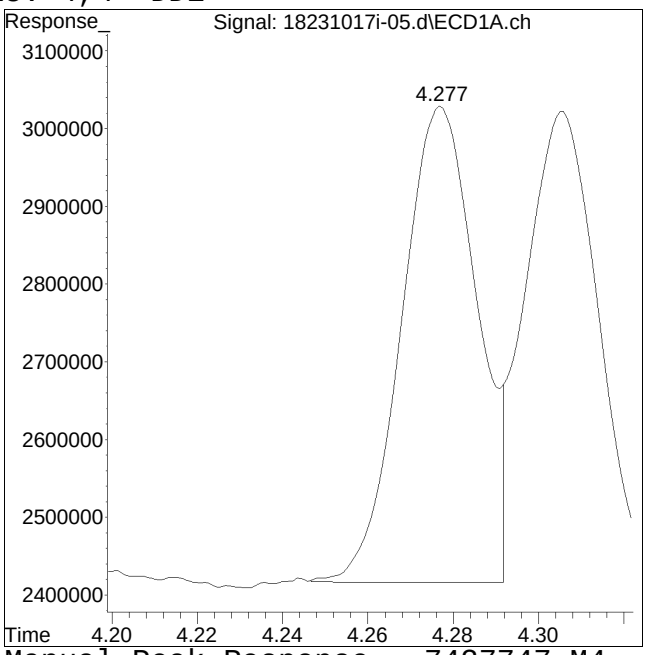
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #15: 4,4'-DDE



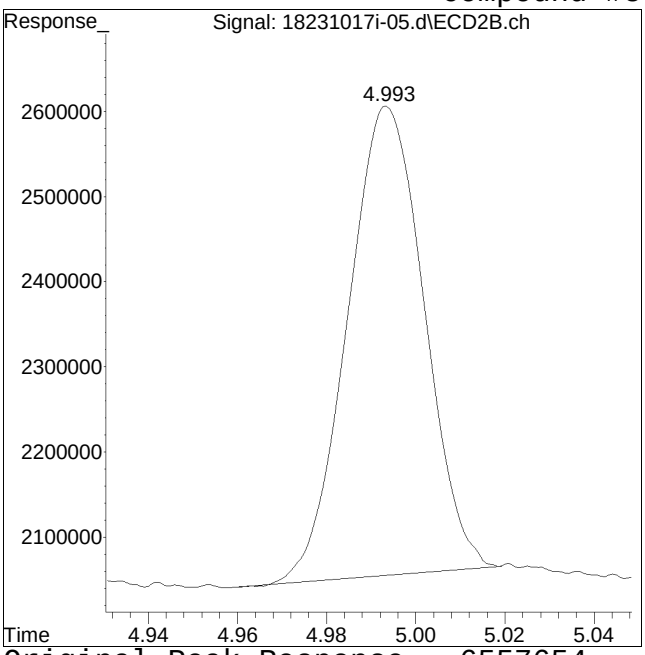


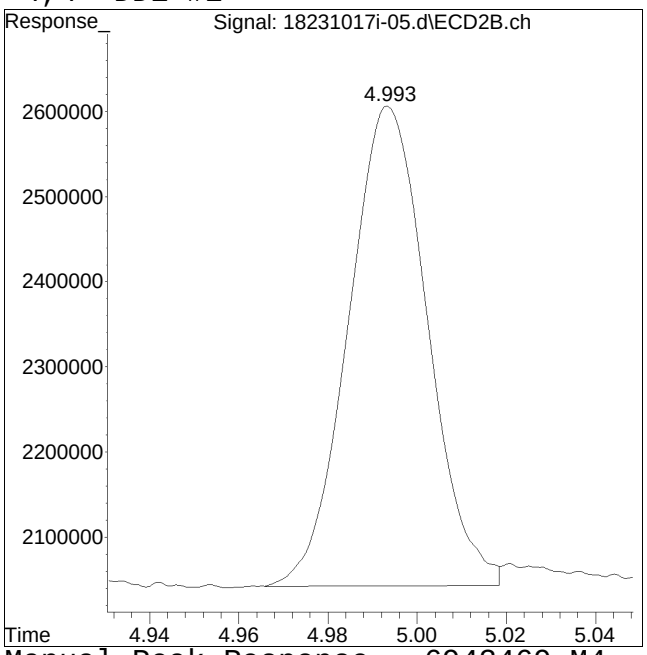
Original Peak Response = 7583335 Manual Peak Response = 7427747 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #53: 4,4'-DDE #2



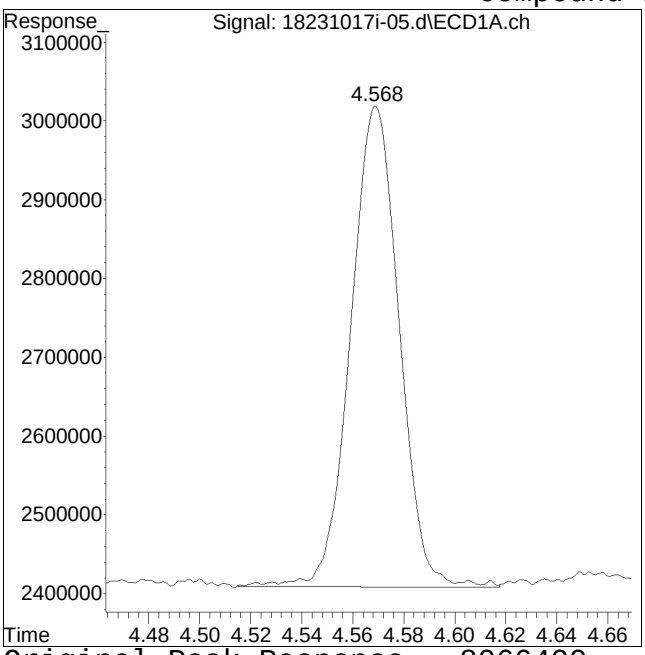


Original Peak Response = 6557654 Manual Peak Response = 6943469 M4
M4 = Poor automated baseline construction.

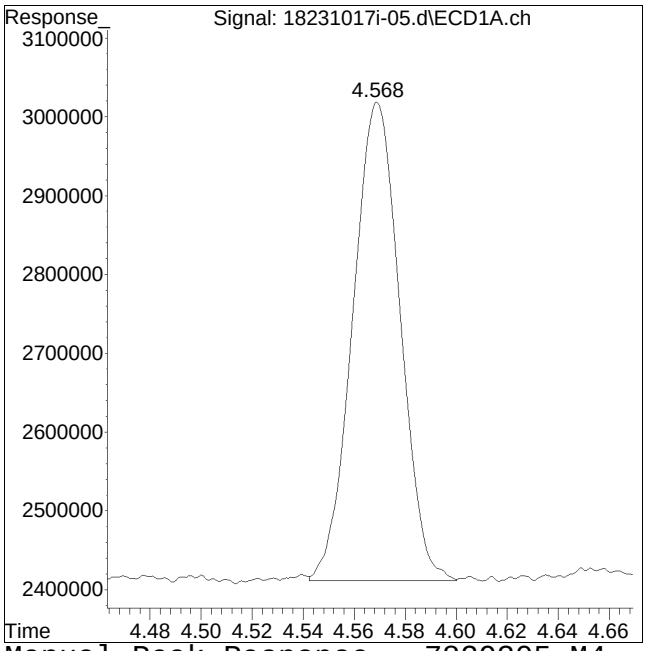
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #17: Dieldrin



Original Peak Response = 8066400



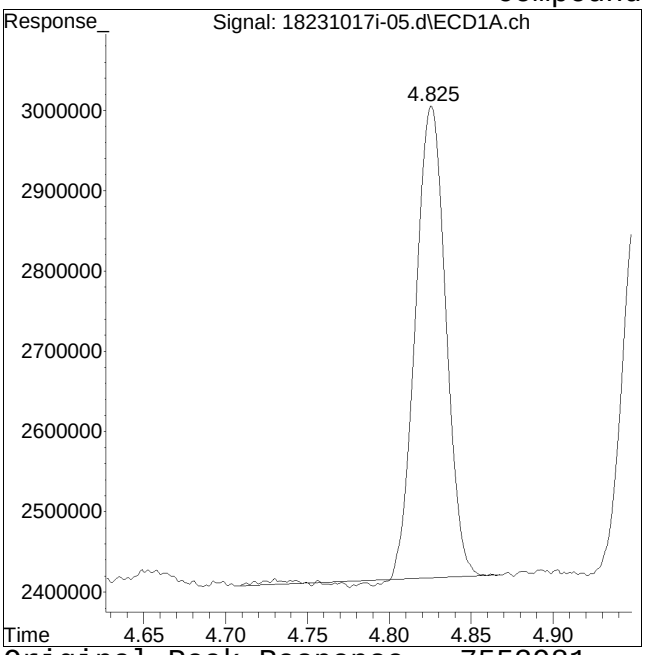
Manual Peak Response = 7829305 M4

M4 = Poor automated baseline construction.

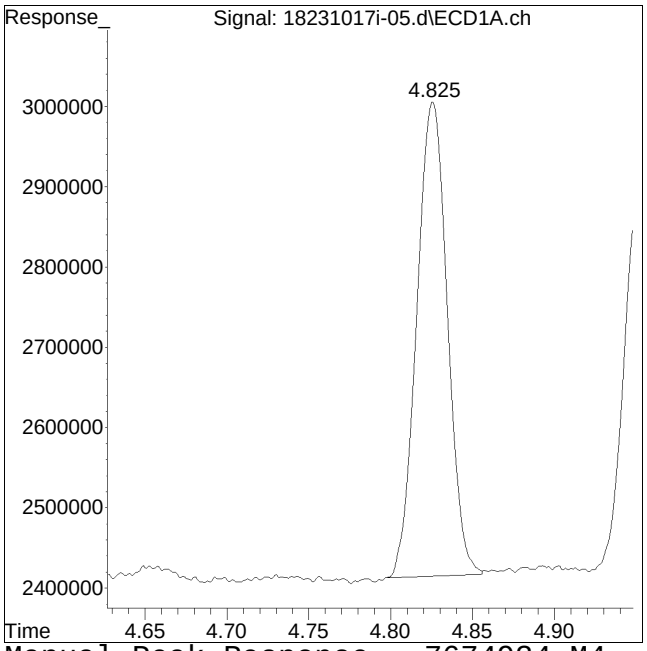
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #18: Endrin



Original Peak Response = 7553981



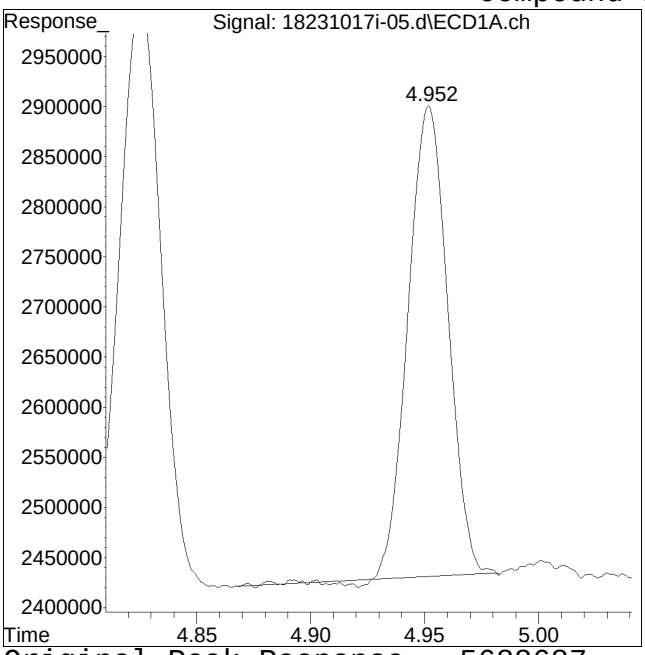
Manual Peak Response = 7674934 M4

M4 = Poor automated baseline construction.

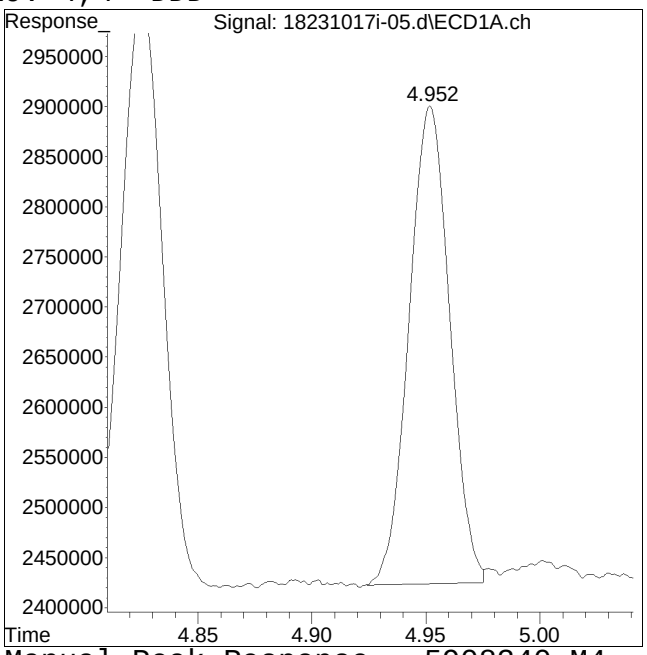
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #19: 4,4'-DDD



Original Peak Response = 5688687



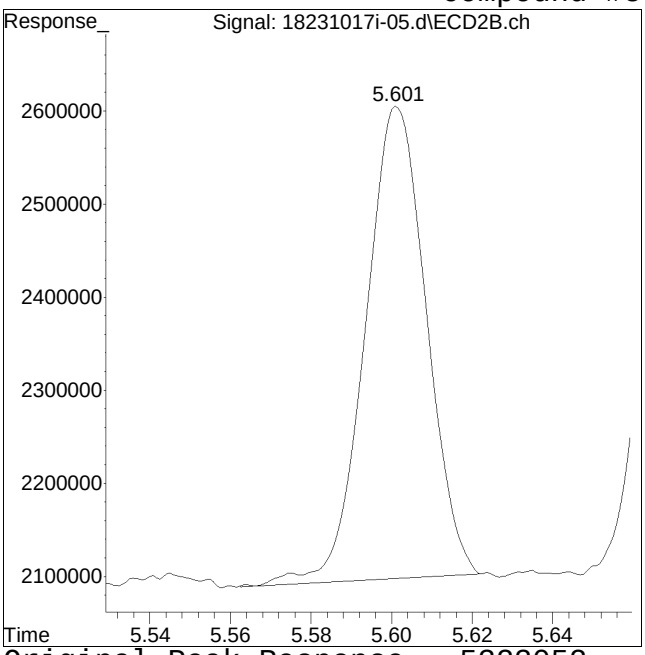
Manual Peak Response = 5908340 M4

M4 = Poor automated baseline construction.

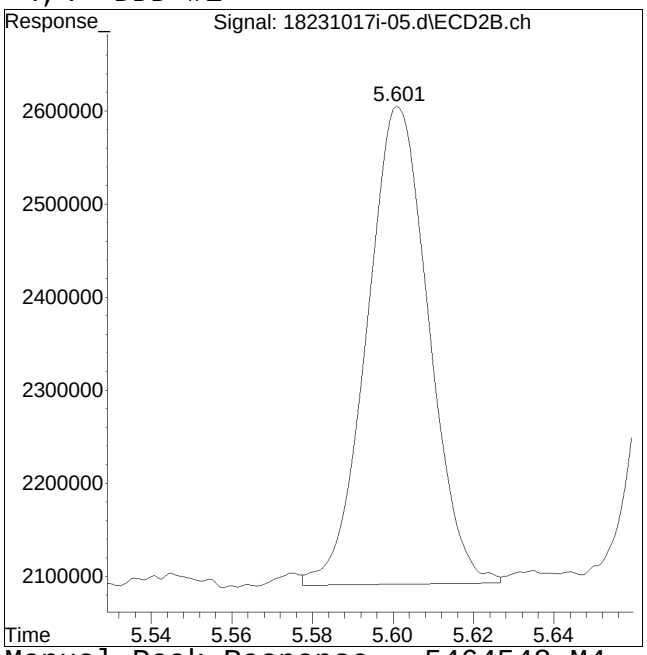
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 5323052



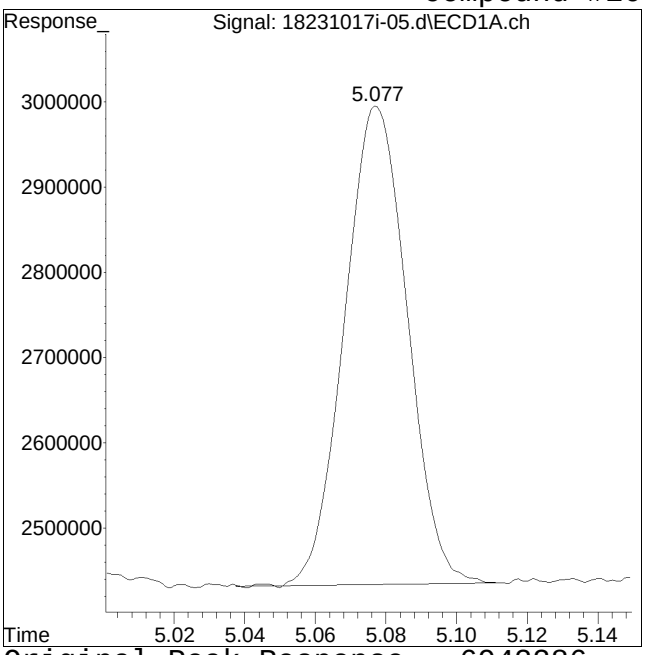
Manual Peak Response = 5464548 M4

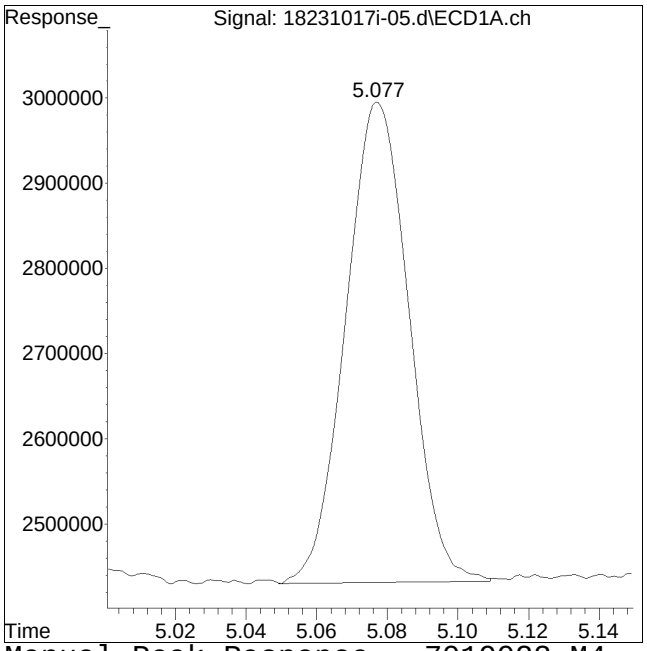
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #20: Endosulfan II



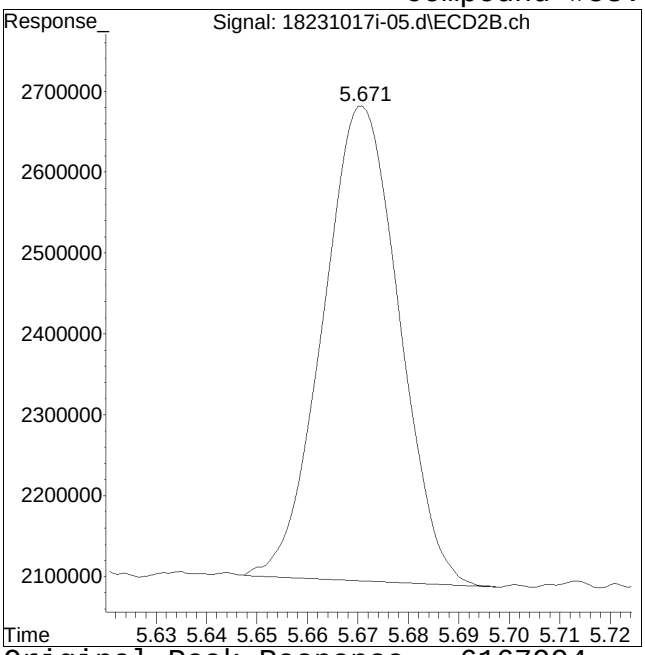


Original Peak Response = 6942286 Manual Peak Response = 7019022 M4
M4 = Poor automated baseline construction.

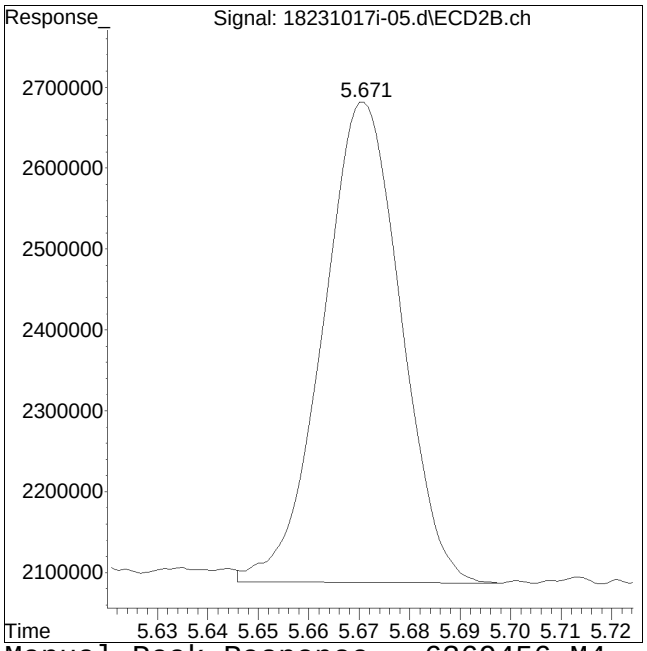
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #58: Endosulfan II #2



Original Peak Response = 6167994



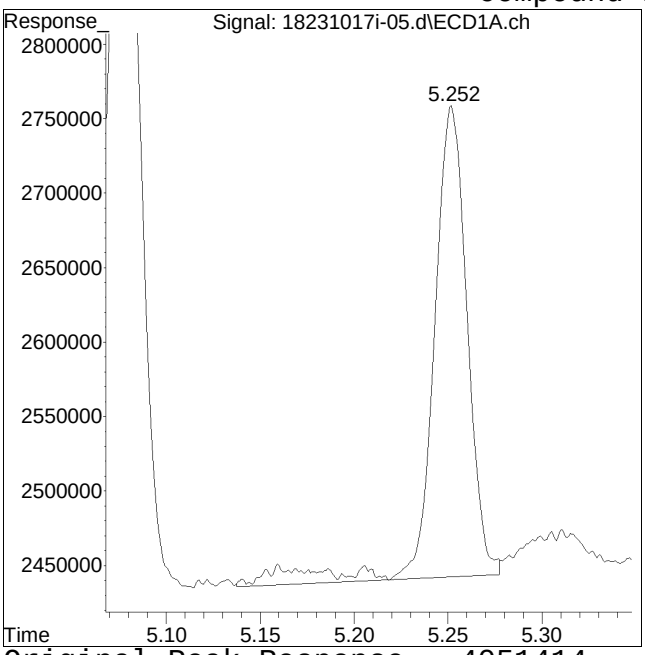
Manual Peak Response = 6369456 M4

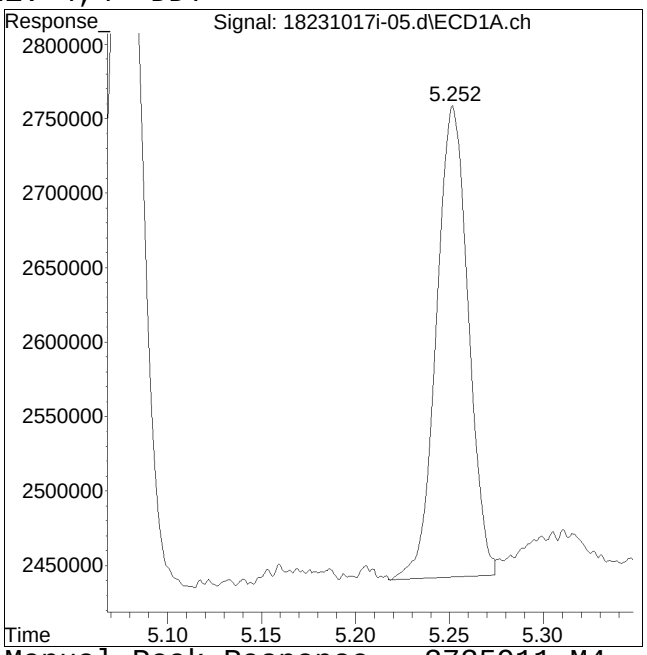
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #21: 4,4'-DDT



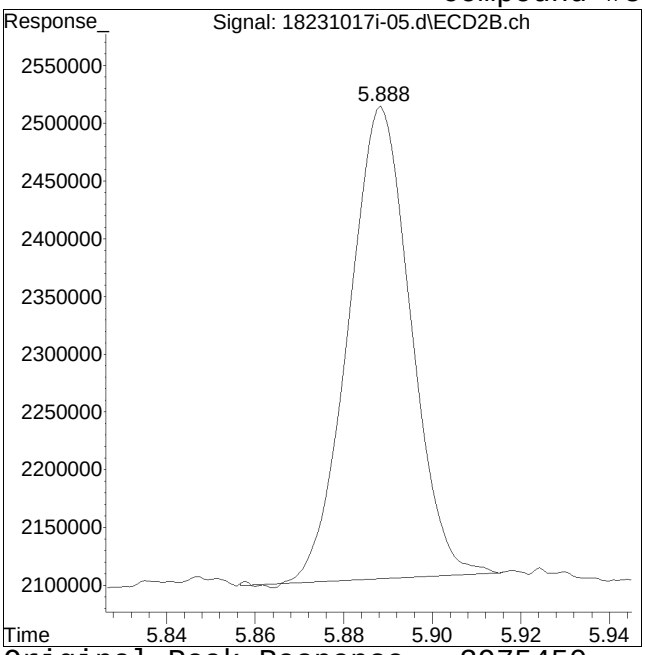


Original Peak Response = 4051414 Manual Peak Response = 3735911 M4
M4 = Poor automated baseline construction.

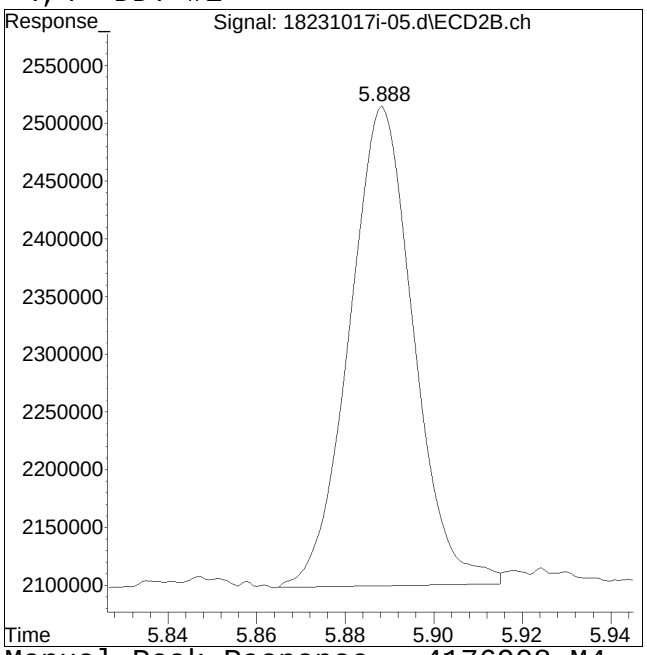
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 3975450



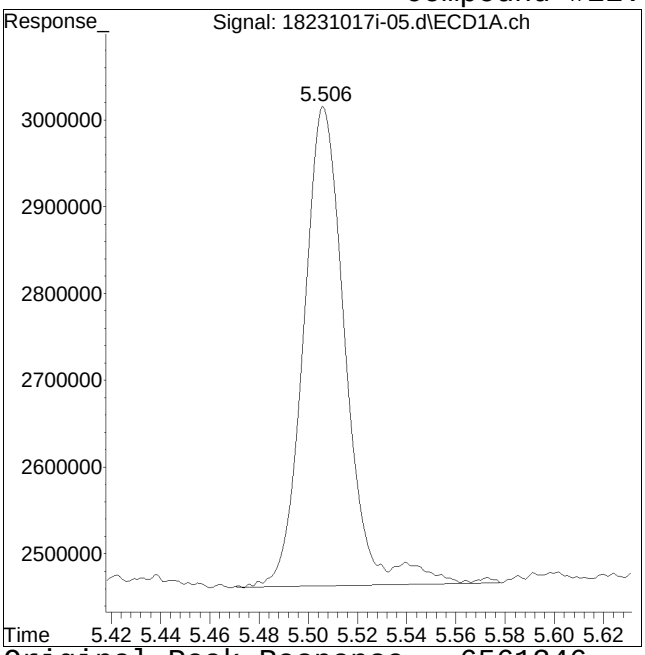
Manual Peak Response = 4176908 M4

M4 = Poor automated baseline construction.

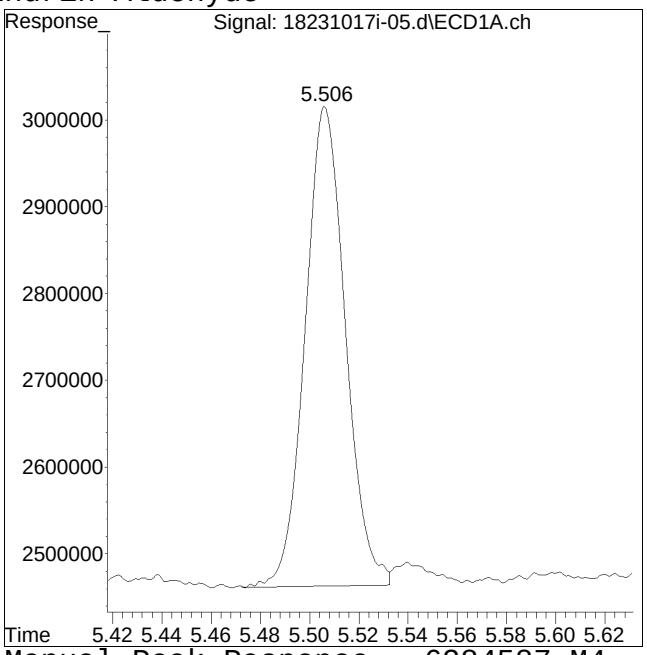
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #22: Endrin Aldehyde



Original Peak Response = 6561346



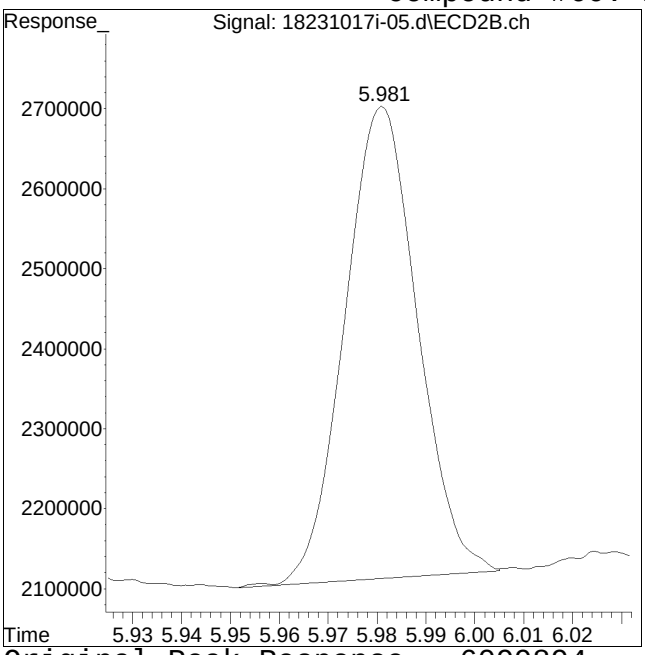
Manual Peak Response = 6284587 M4

M4 = Poor automated baseline construction.

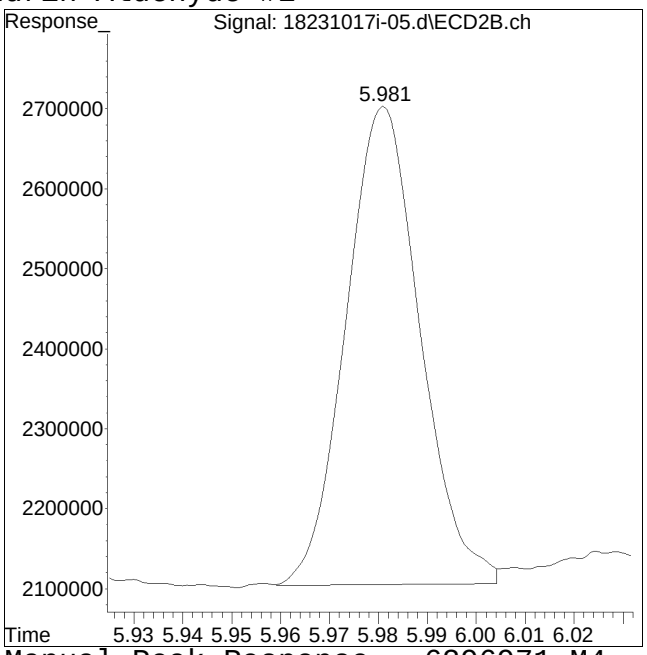
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 6099894



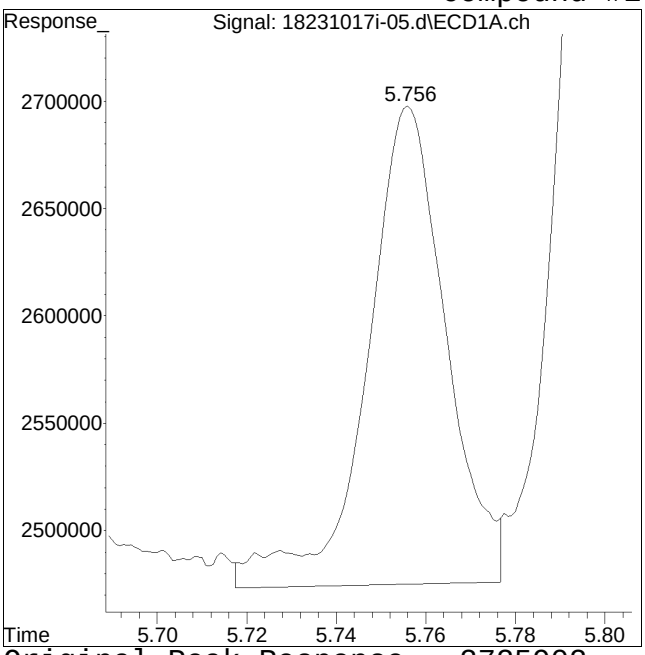
Manual Peak Response = 6296971 M4

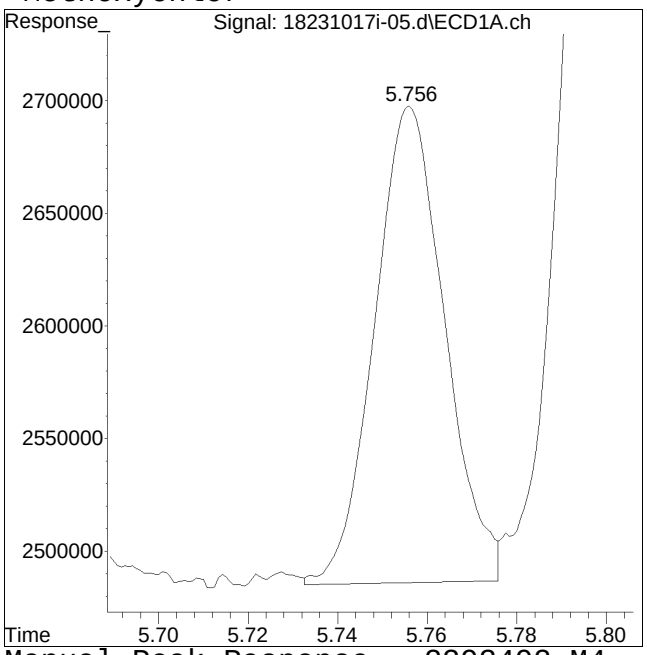
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #23: Methoxychlor



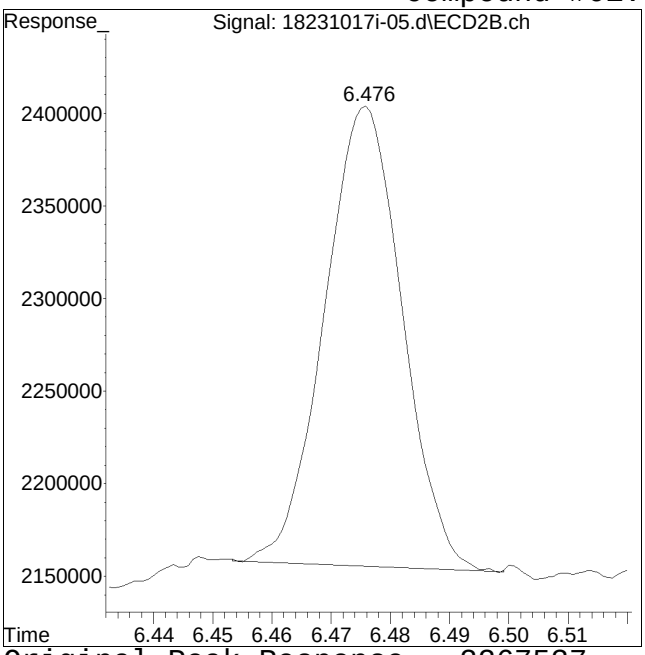


Original Peak Response = 2725902 Manual Peak Response = 2293492 M4
M4 = Poor automated baseline construction.

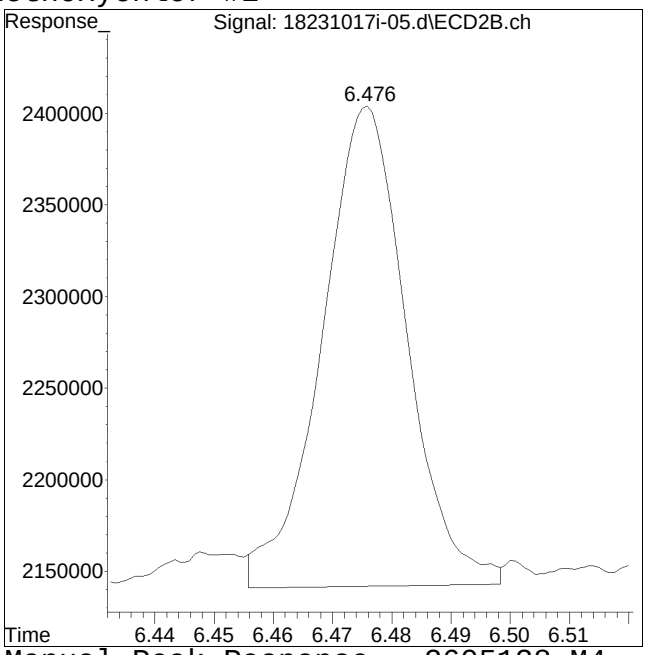
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #61: Methoxychlor #2



Original Peak Response = 2267537



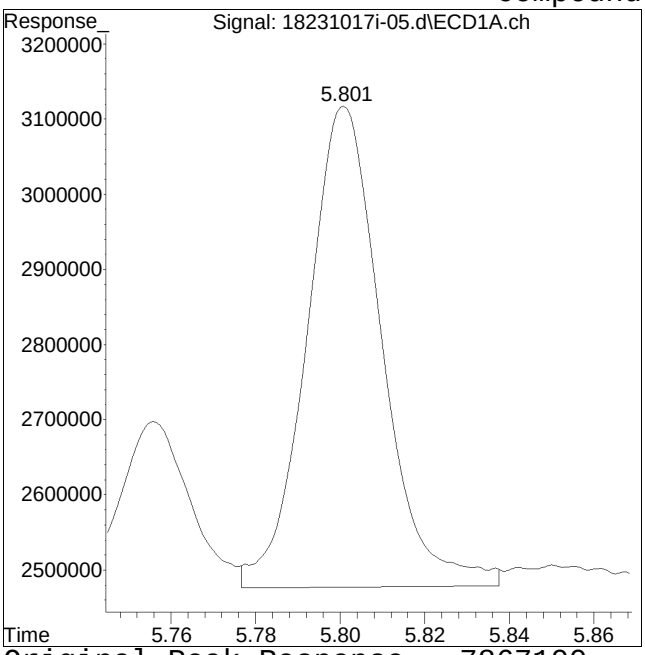
Manual Peak Response = 2605138 M4

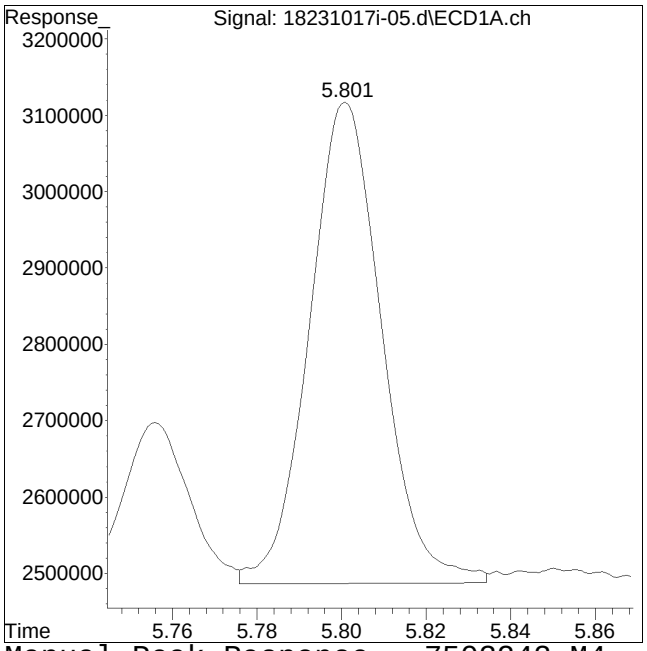
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #24: Mirex



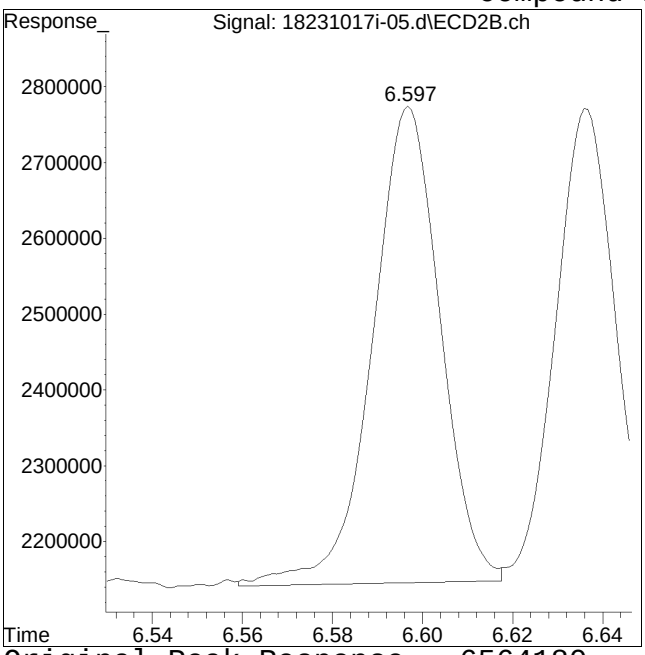


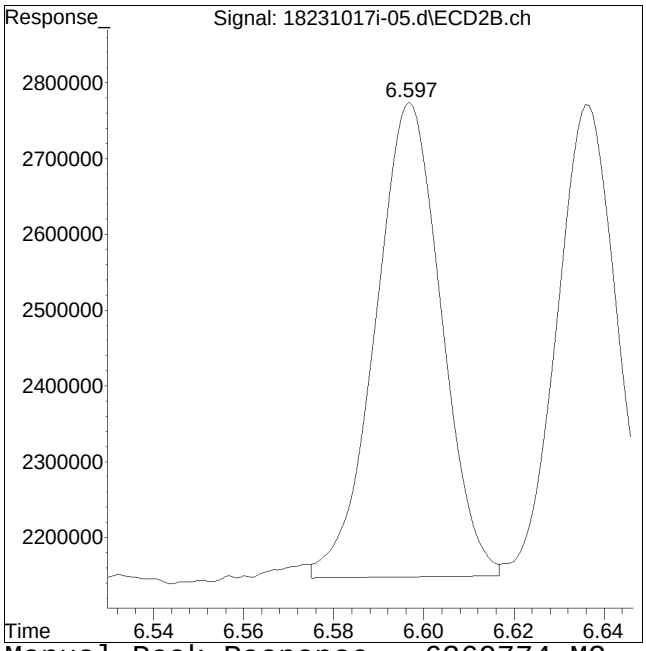
Original Peak Response = 7867100 Manual Peak Response = 7503242 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #62: Mirex #2



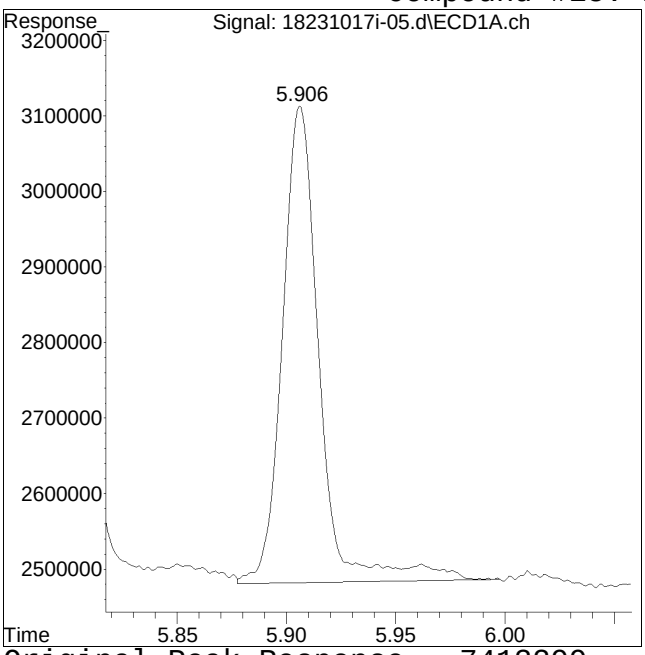


Original Peak Response = 6564180 Manual Peak Response = 6369774 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

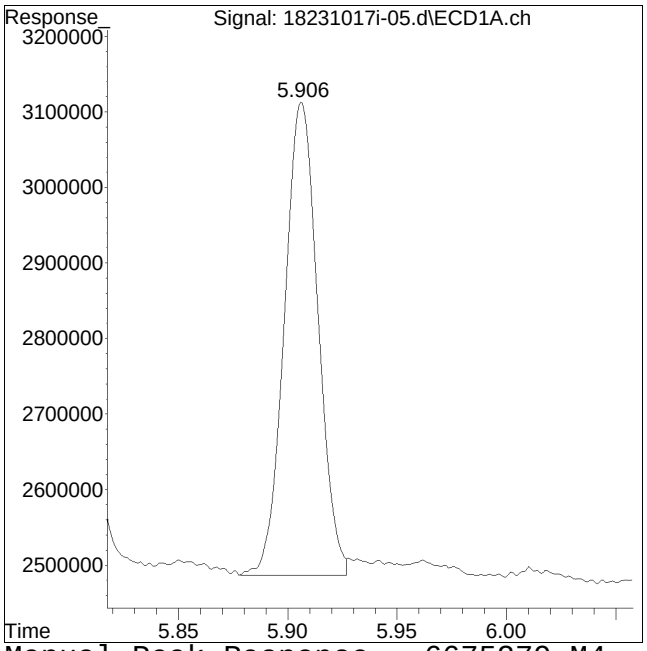
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 7413299



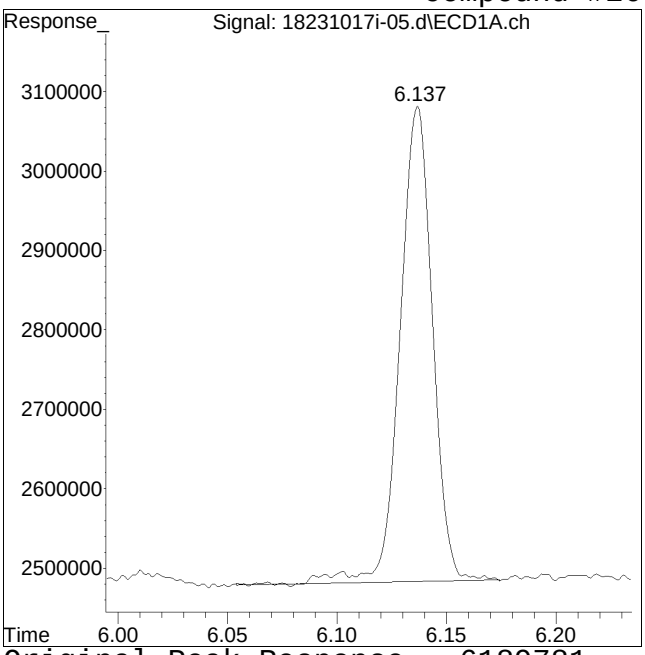
Manual Peak Response = 6675279 M4

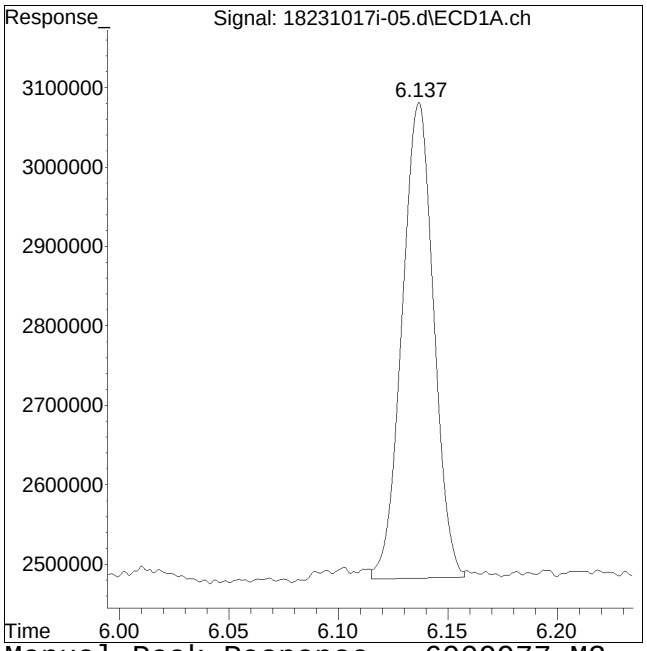
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #26: Endrin Ketone



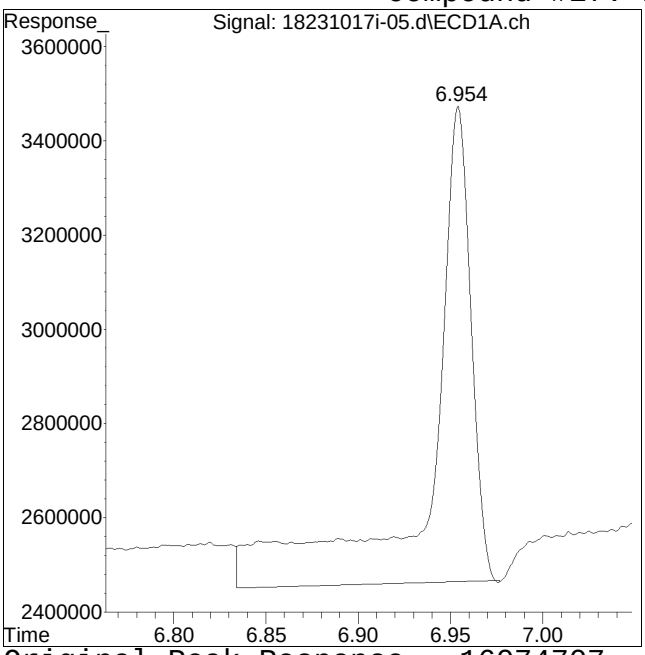


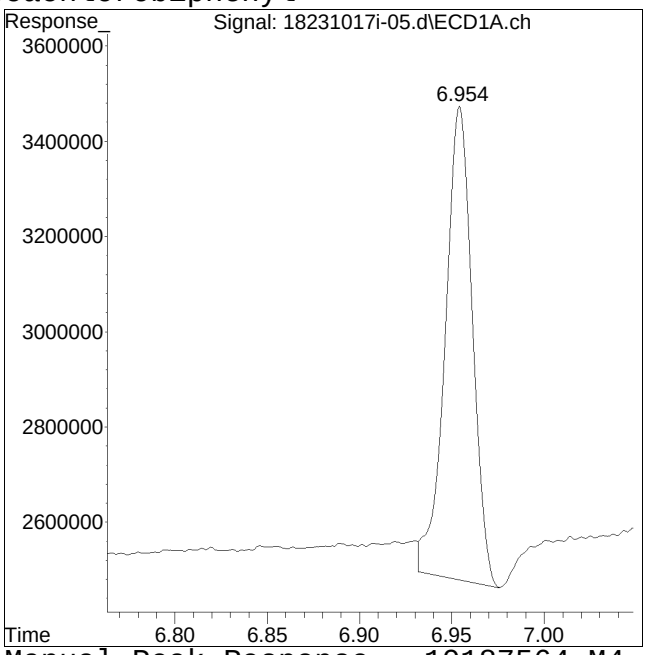
Original Peak Response = 6189781 Manual Peak Response = 6009977 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-05.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:37 pm Instrument : Pest 18
Sample : il3pest,42e,,pp 11228 L0.0Quant Date : 10/19/2023 9:45 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 16074707 Manual Peak Response = 10187564 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:48 pm
Operator : PEST18:ejl
Sample : il4pest,42e,,pp 11227 L0.003
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:31:02 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:24:23 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.722	1.771	85642135	75385415	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.156	2.320	11103651	9844052	3.156	3.125
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.31%#	6.25%#
27) s	Decachlorobi	6.953	7.526	13877020	9776574	3.863M4	3.531
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.73%#	7.06%#
	Target Compounds						
3)	Hexachlorobe	2.397	2.657	13187054	12259720	3.415M4	3.438M4
4)	alpha-BHC	2.510	2.761	13103208	11833614	2.832M4	2.845M4
5)	gamma-BHC (l	2.730	3.053	12406382	11281826	2.925M3	2.949M4
6)	beta-BHC	2.798	3.129	6615223	5898808	3.313M4	3.271
7)	delta-BHC	2.934	3.397	12411354	11070448	2.866M4	2.851
8)	Heptachlor	3.096	3.448	12189577	11308496	3.057M3	3.073
9)	Aldrin	3.346	3.764	11589466	10487298	2.944M4	2.918
10)	Alachlor	3.484	3.666	2315679	1809030	3.494M4	3.408
11)	Chlorpyrifos	3.580	4.017	7078997	6716658	3.584M4	3.650M4
12)	Heptachlor E	3.907	4.380	11728289	11023544	3.105M4	3.189
13)	gamma-Chlord	4.035	4.599	11599031	9912330	3.139M4	3.150
14)	alpha-Chlord	4.171	4.773	12654118	11147003	3.239M4	3.172
15)	4,4'-DDE	4.277	4.993	11264516	10387790	2.892M4	2.932M4
16)	Endosulfan I	4.306	4.835	11208417	10011067	3.136	3.067
17)	Dieldrin	4.569	5.147	11379247	10011764	2.961M4	2.982

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:48 pm
Operator : PEST18:ejl
Sample : il4pest,42e,,pp 11227 L0.003
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:31:02 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:24:23 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	4.825	5.459	11708099	10203987	2.970M4	3.018
19)	4,4'-DDD	4.951	5.601	8989960	8238031	2.874M4	2.924M4
20)	Endosulfan I	5.078	5.671	10590661	9638141	3.090	3.162
21)	4,4'-DDT	5.251	5.888	5616420	6417067	2.074M4	2.484
22)	Endrin Aldeh	5.506	5.980	9044263	8427426	3.092M3	3.157M4
23)	Methoxychlor	5.755	6.475	3327903	3786860	2.220M4	2.664M4
24)	Mirex	5.801	6.596	11117567	9239974	3.628	3.605M4
25)	Endosulfan S	5.906	6.217	10091408	9055856	3.132M4	3.213
26)	Endrin Keton	6.136	6.636	9034671	8485935	2.762M3	2.887
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:48 pm
Operator : PEST18:ejl
Sample : il4pest,42e,,pp 11227 L0.003
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:31:02 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:24:23 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

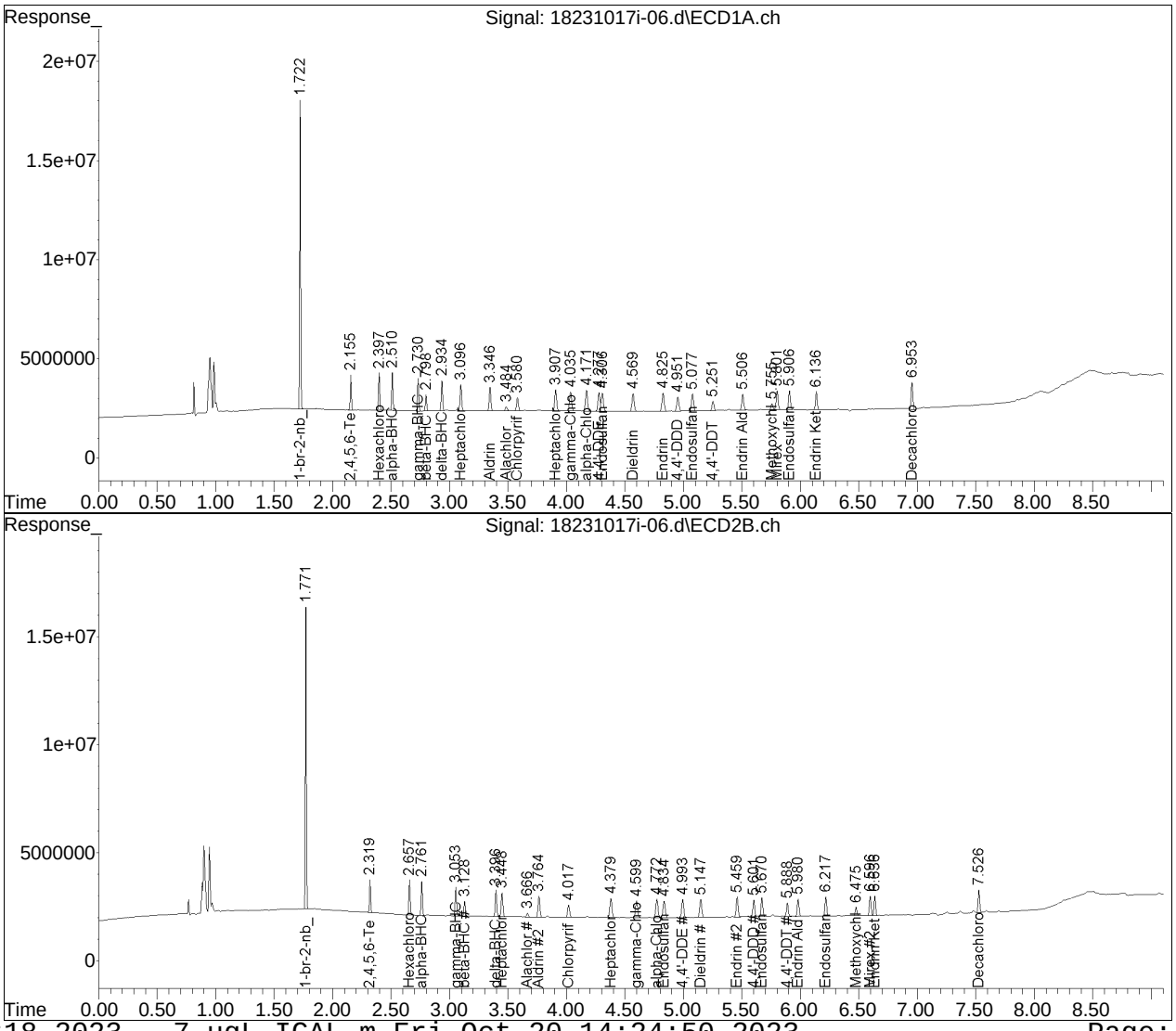
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 12:48 pm
Operator : PEST18:ejl
Sample : il4pest,42e,,pp 11227 L0.003
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:31:02 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:24:23 2023
Response via : Initial Calibration
Integrator: ChemStation

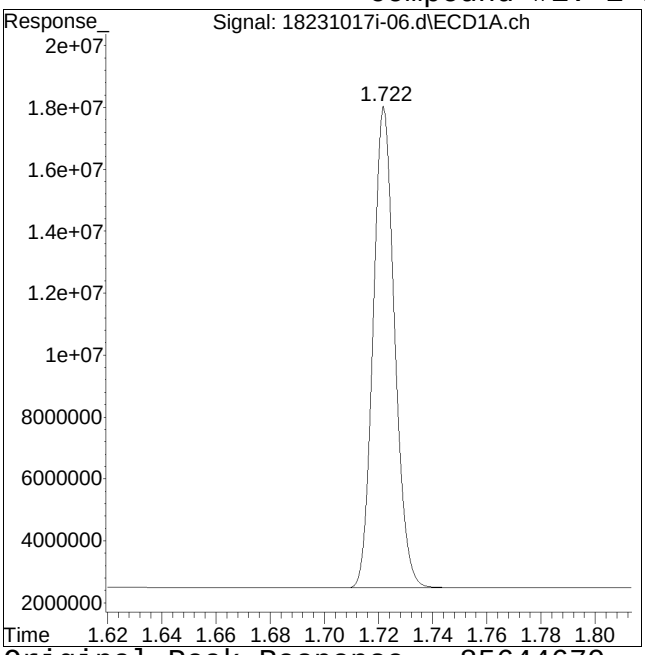
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



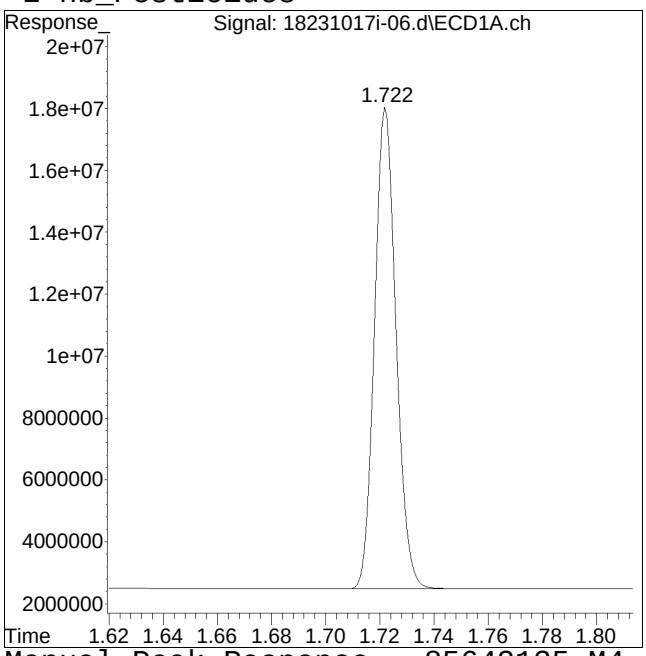
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 85644670



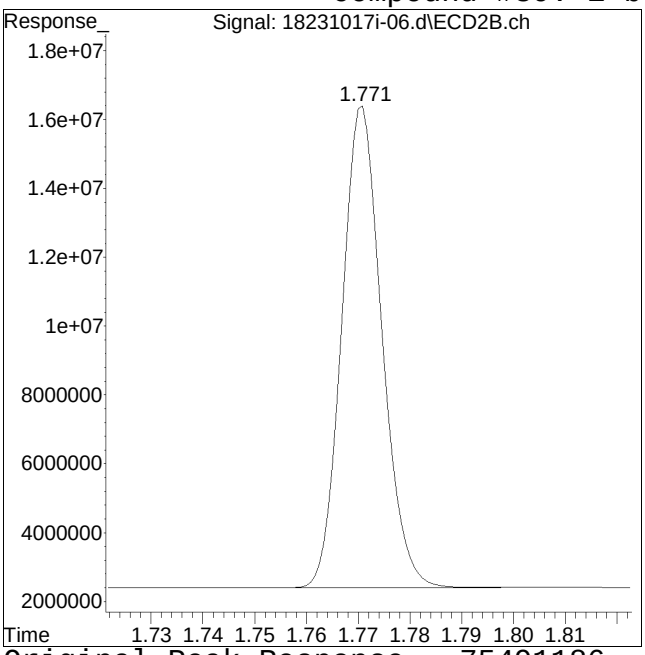
Manual Peak Response = 85642135 M4

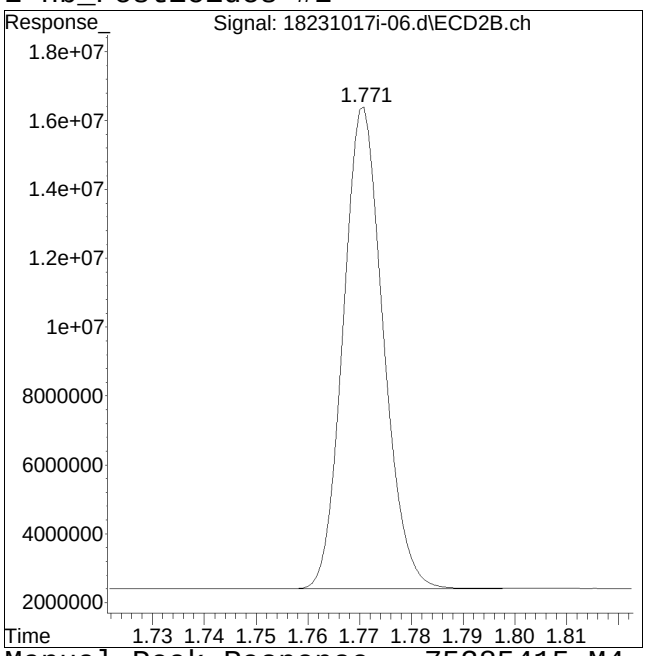
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #39: 1-br-2-nb_Pesticides #2



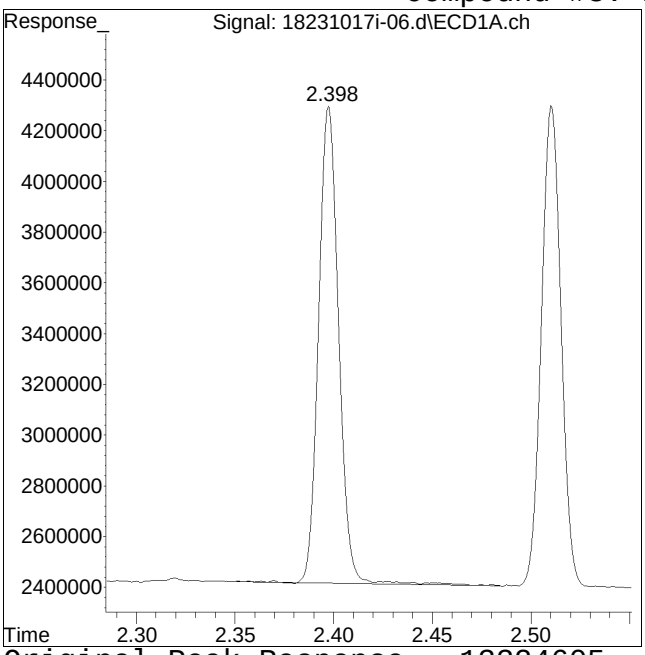


Original Peak Response = 75491186 Manual Peak Response = 75385415 M4
M4 = Poor automated baseline construction.

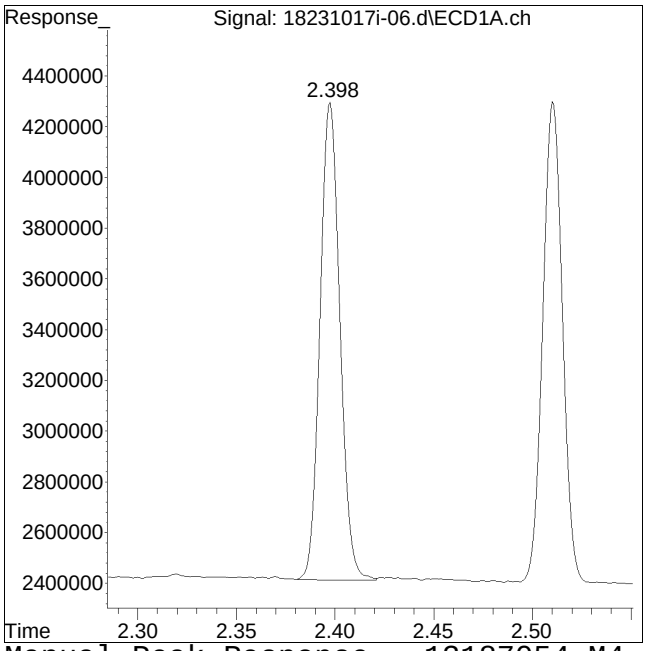
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #3: Hexachlorobenzene



Original Peak Response = 13324605



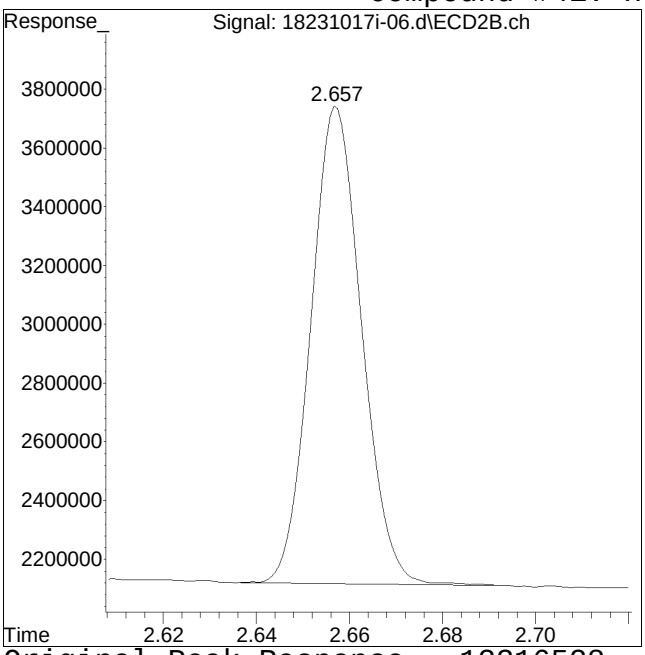
Manual Peak Response = 13187054 M4

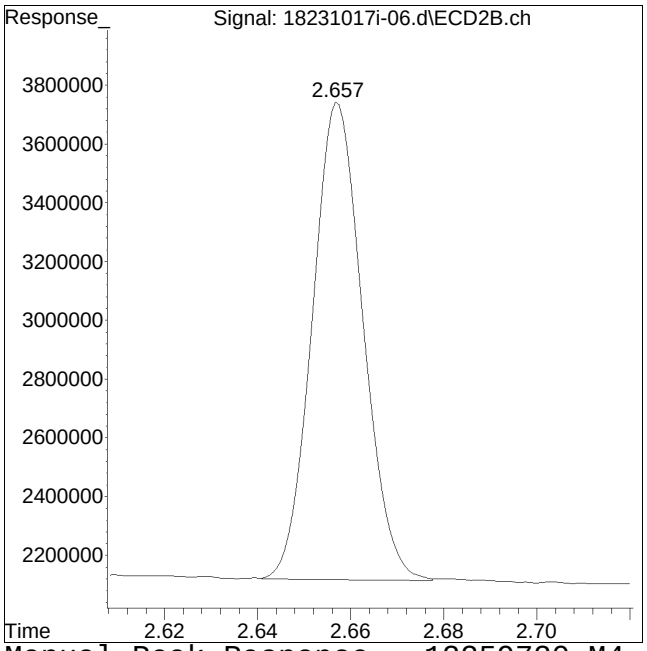
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #41: Hexachlorobenzene #2



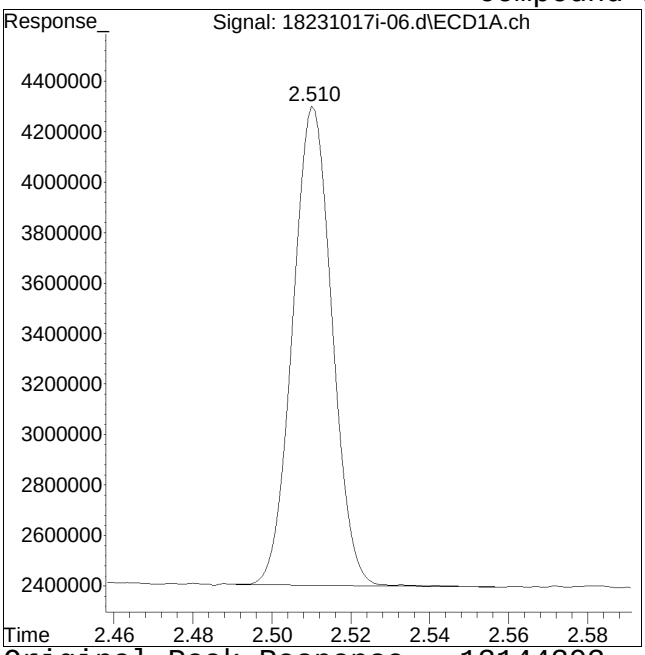


Original Peak Response = 12316528 Manual Peak Response = 12259720 M4
M4 = Poor automated baseline construction.

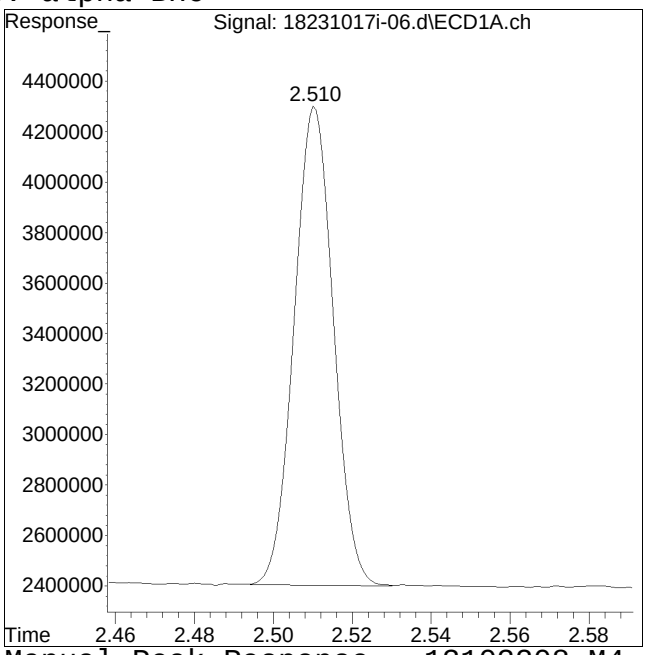
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #4: alpha-BHC



Original Peak Response = 13144393



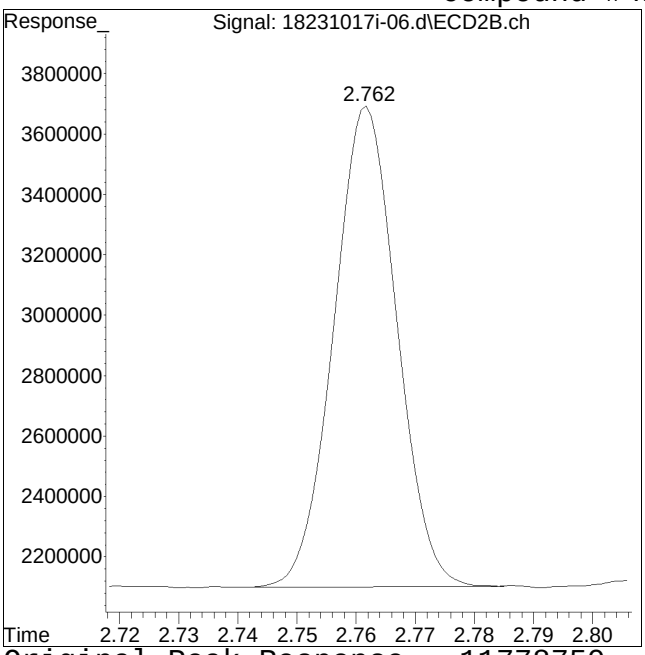
Manual Peak Response = 13103208 M4

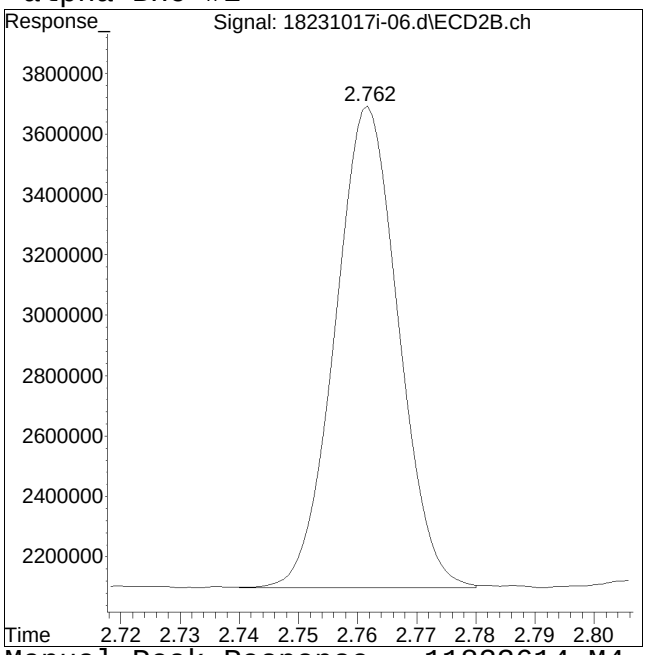
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #42: alpha-BHC #2



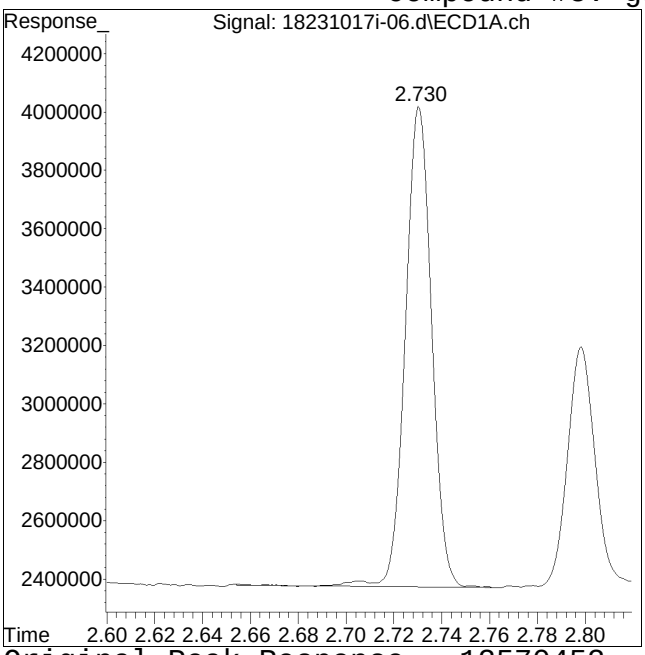


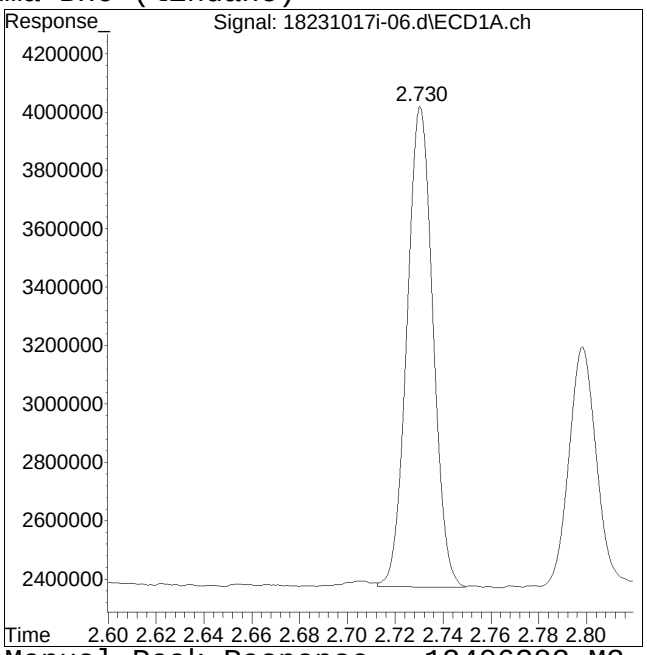
Original Peak Response = 11778750 Manual Peak Response = 11833614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #5: gamma-BHC (lindane)



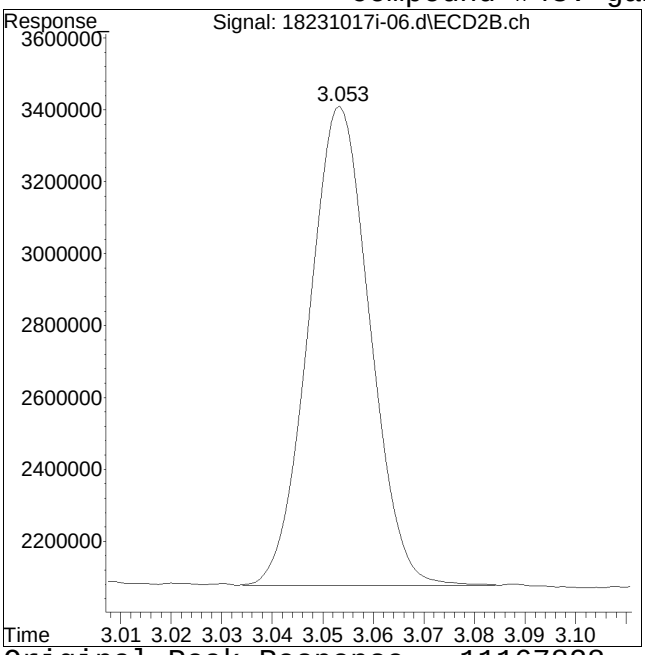


Original Peak Response = 12570452 Manual Peak Response = 12406382 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

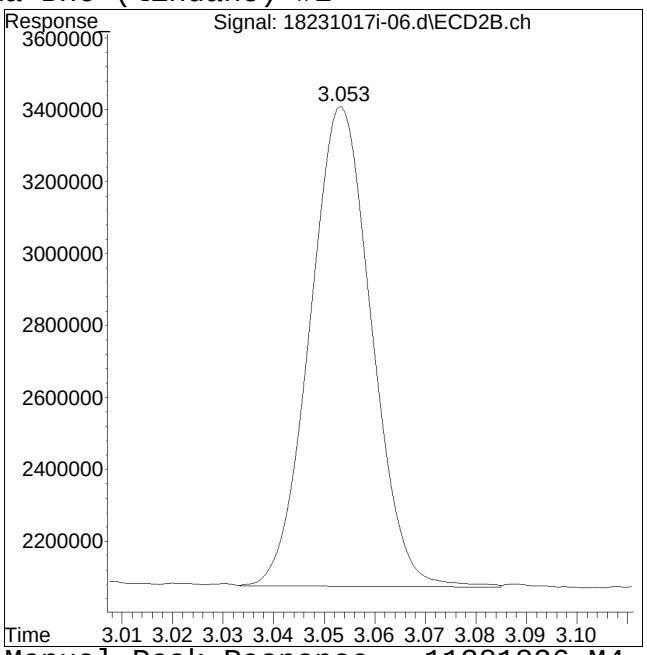
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 11167828



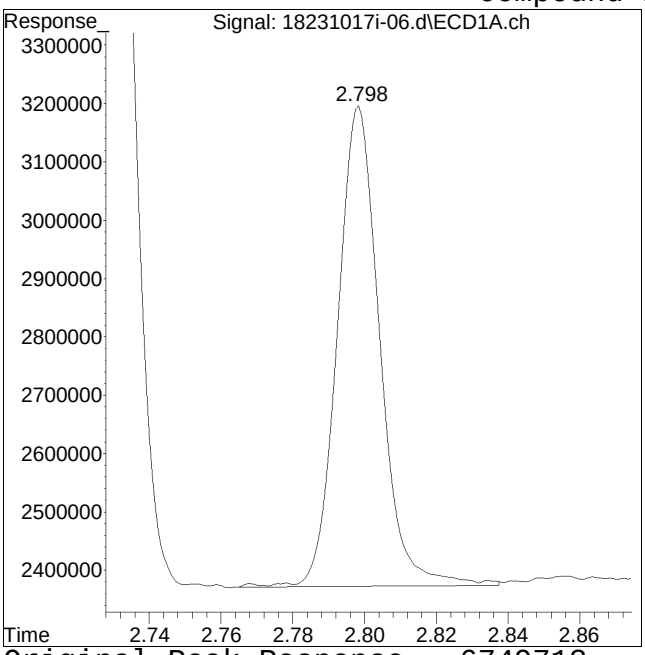
Manual Peak Response = 11281826 M4

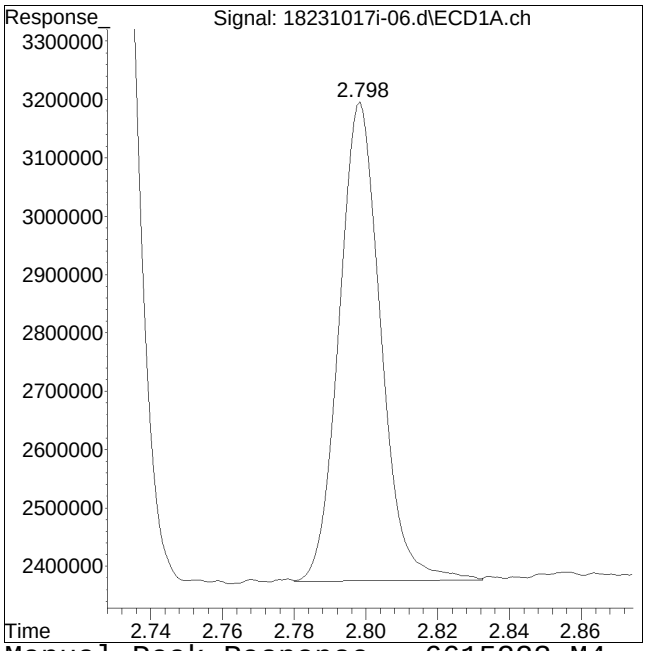
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #6: beta-BHC



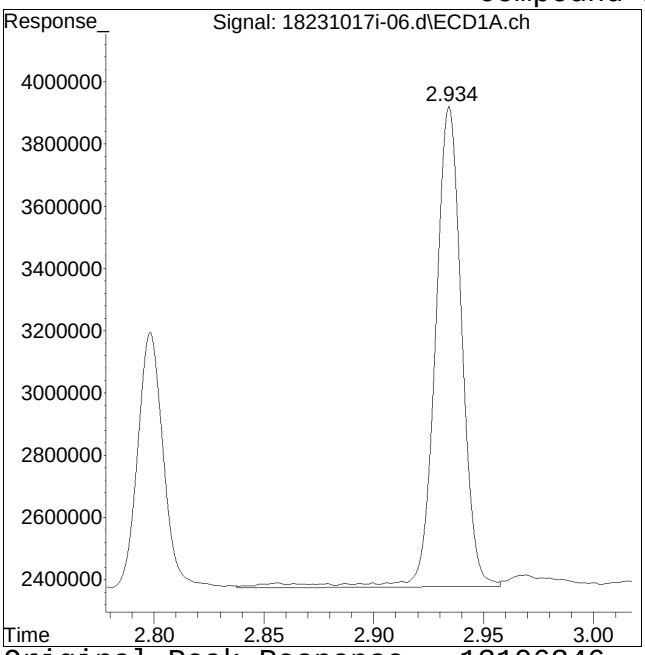


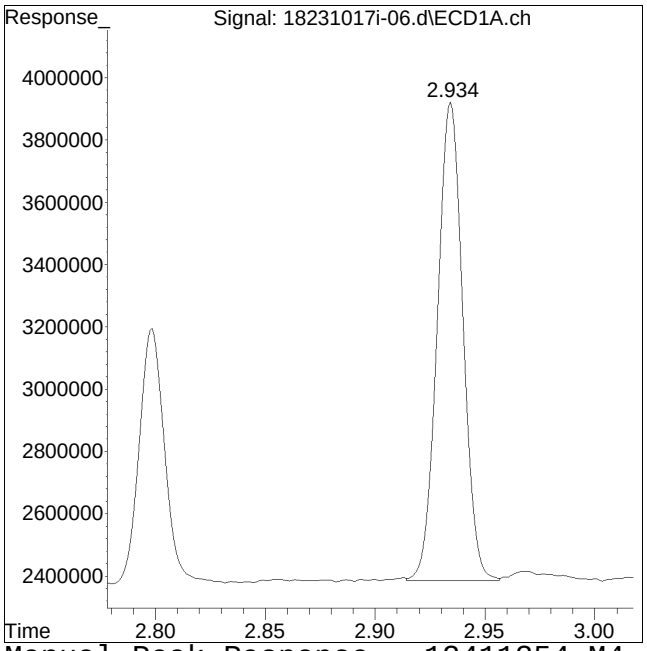
Original Peak Response = 6749713 Manual Peak Response = 6615223 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #7: delta-BHC



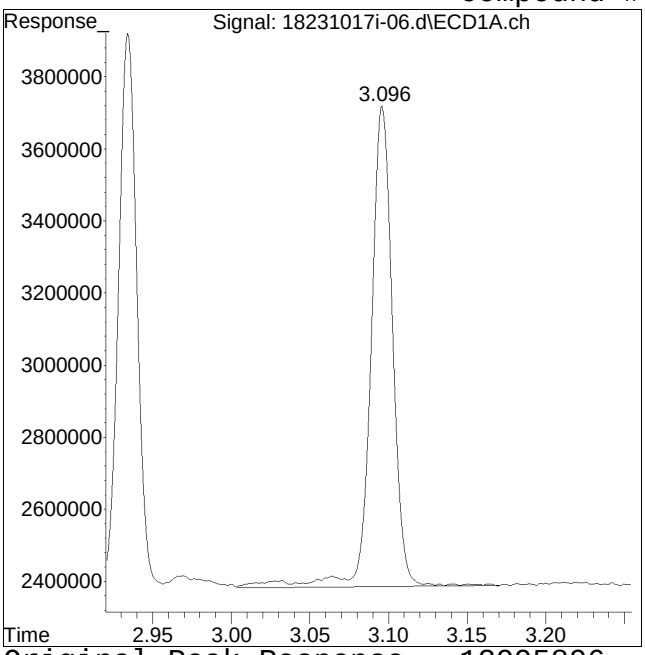


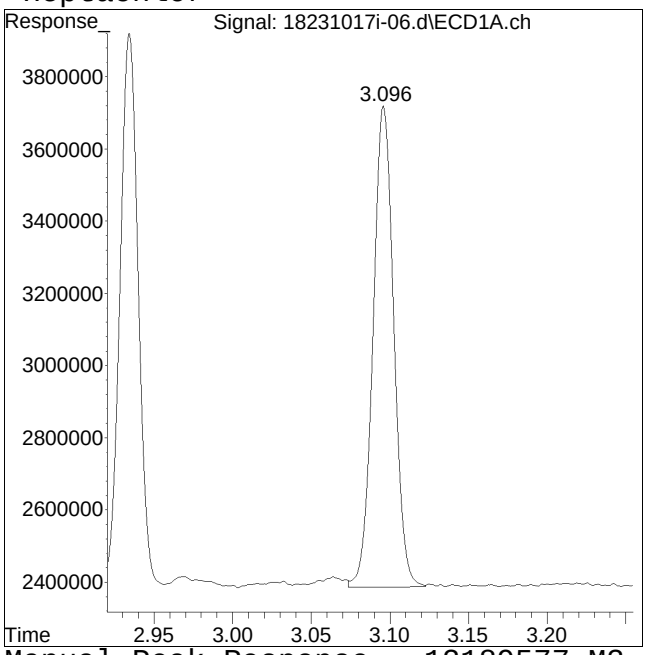
Original Peak Response = 13106346 Manual Peak Response = 12411354 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #8: Heptachlor



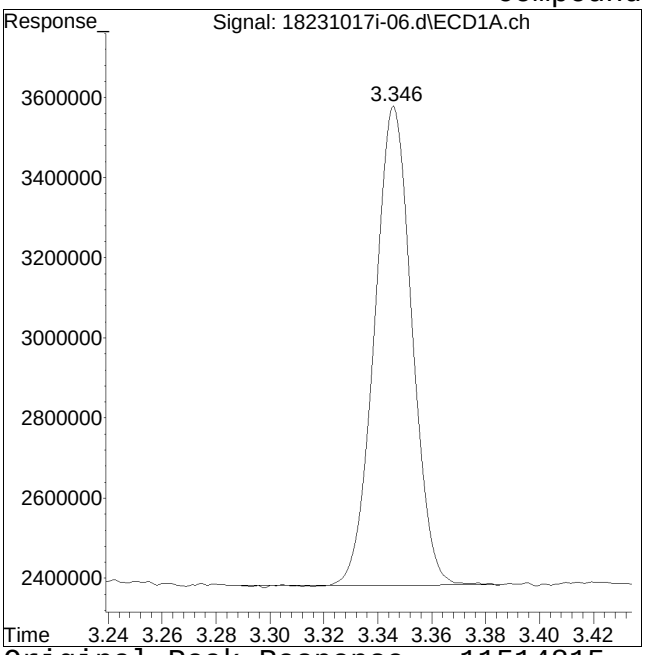


Original Peak Response = 12995896 Manual Peak Response = 12189577 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

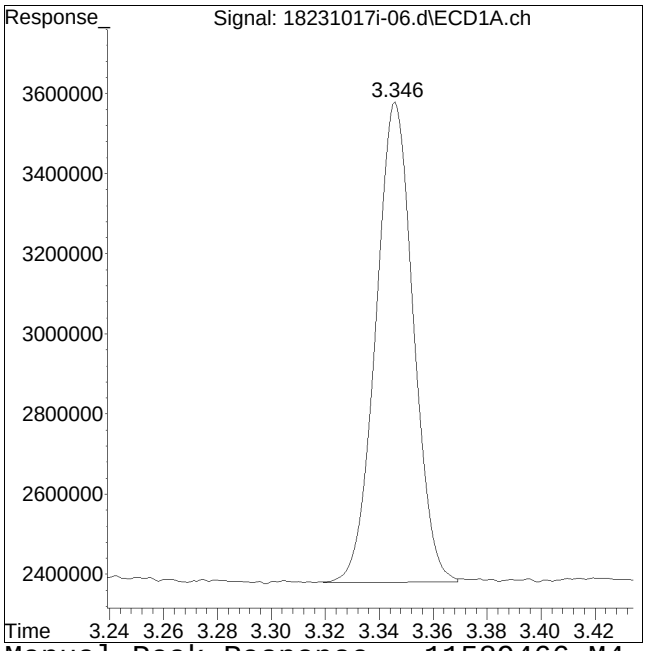
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #9: Aldrin



Original Peak Response = 11514815



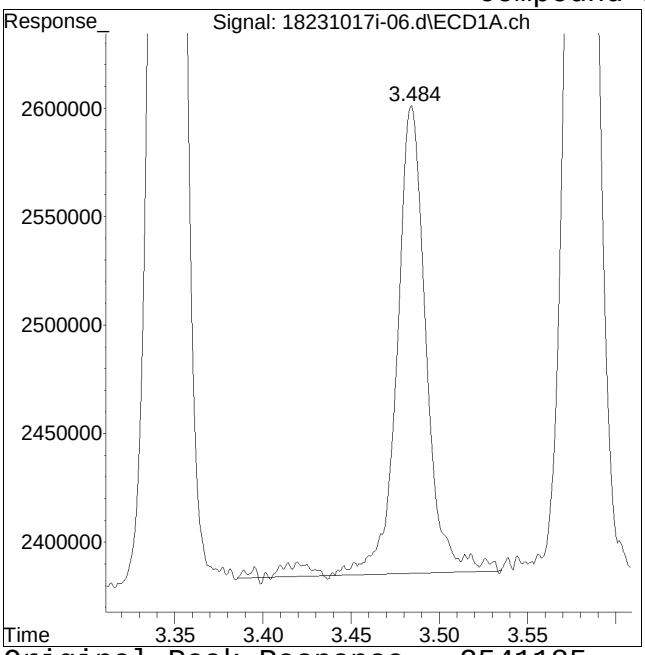
Manual Peak Response = 11589466 M4

M4 = Poor automated baseline construction.

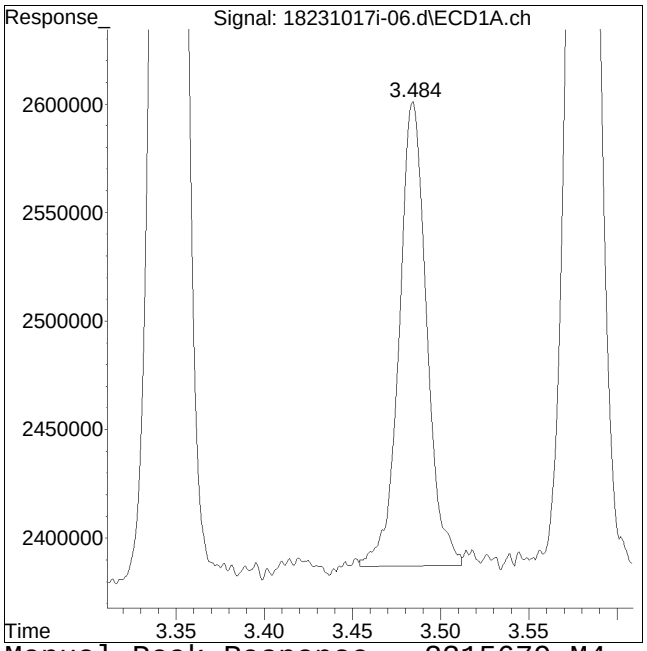
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #10: Alachlor



Original Peak Response = 2541185



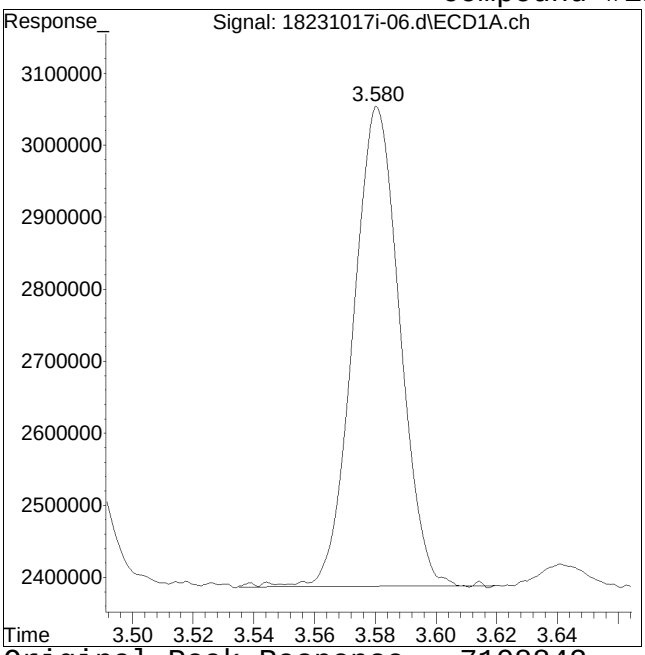
Manual Peak Response = 2315679 M4

M4 = Poor automated baseline construction.

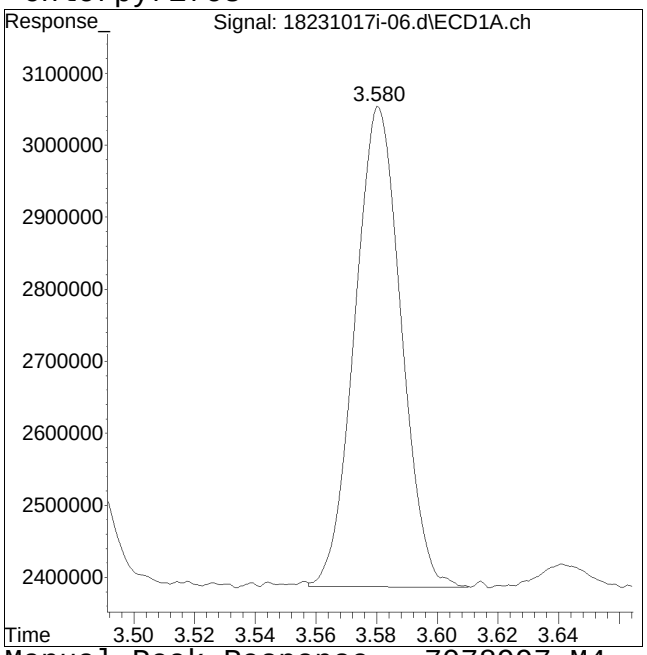
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #11: Chlorpyrifos



Original Peak Response = 7108842



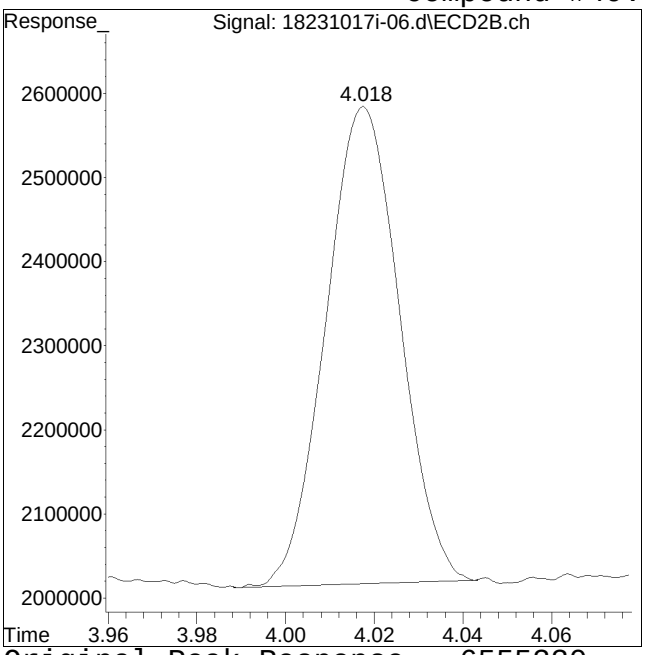
Manual Peak Response = 7078997 M4

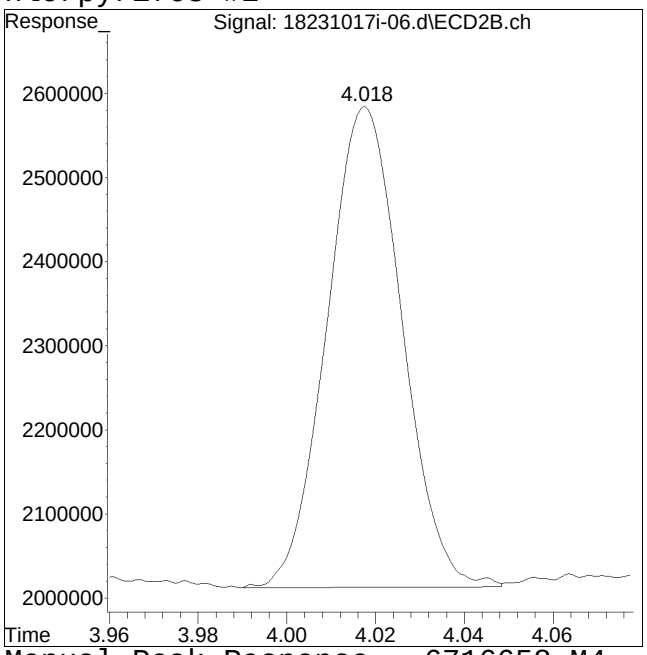
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #49: Chlorpyrifos #2



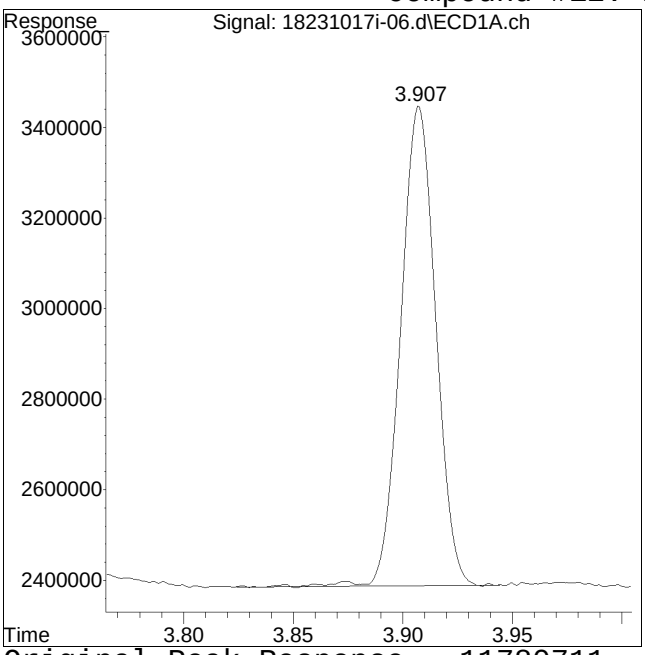


Original Peak Response = 6555330 Manual Peak Response = 6716658 M4
M4 = Poor automated baseline construction.

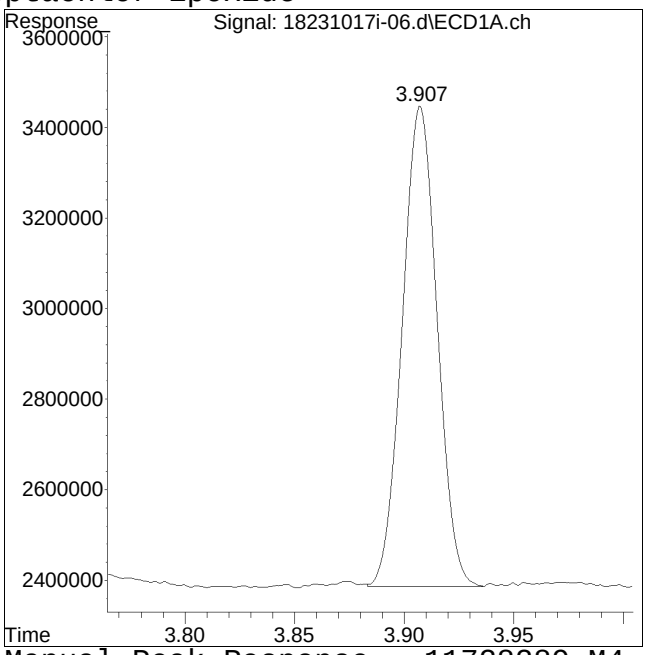
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 11780711



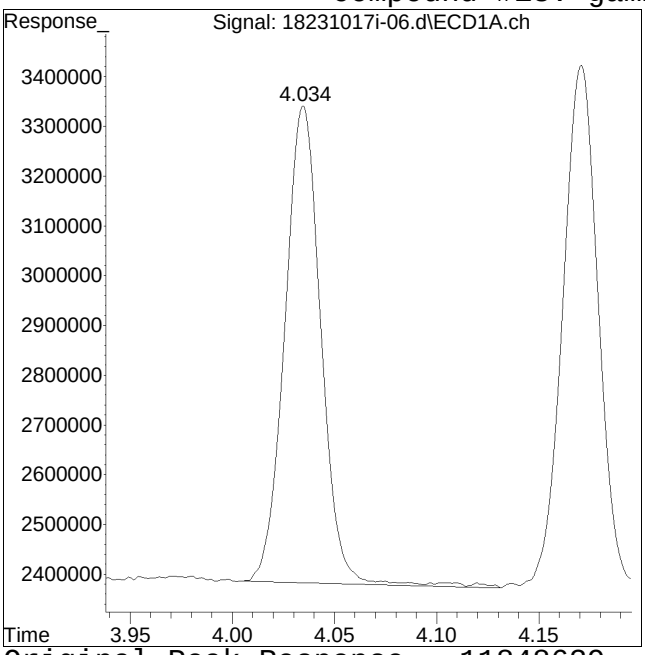
Manual Peak Response = 11728289 M4

M4 = Poor automated baseline construction.

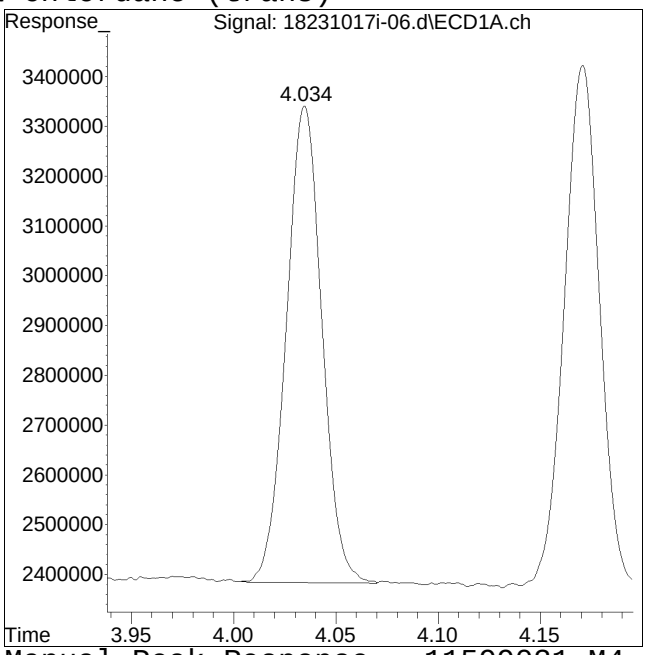
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 11848639



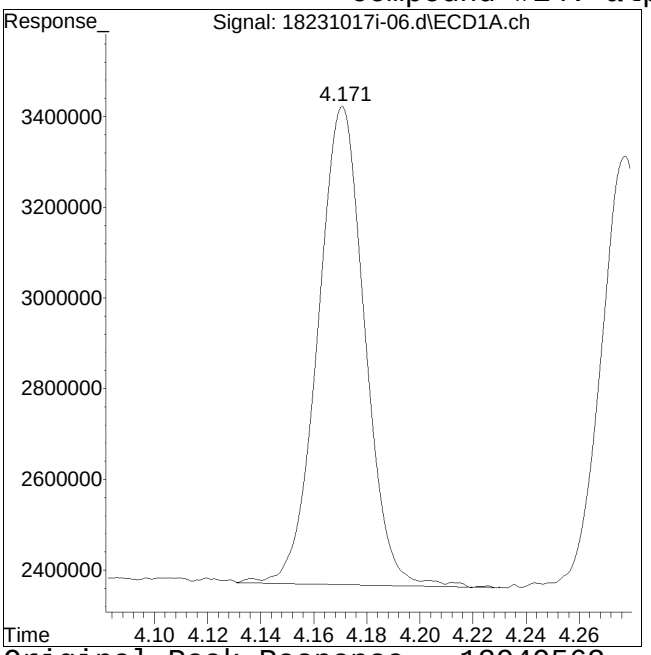
Manual Peak Response = 11599031 M4

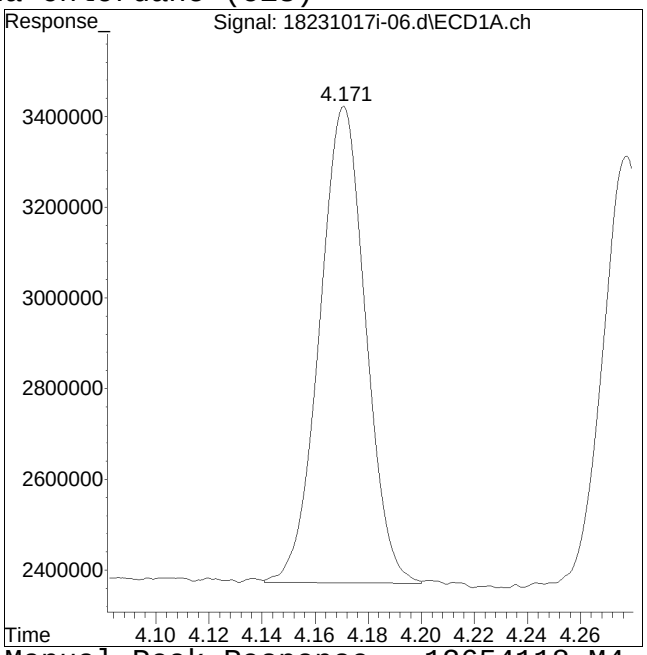
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #14: alpha-Chlordane (cis)



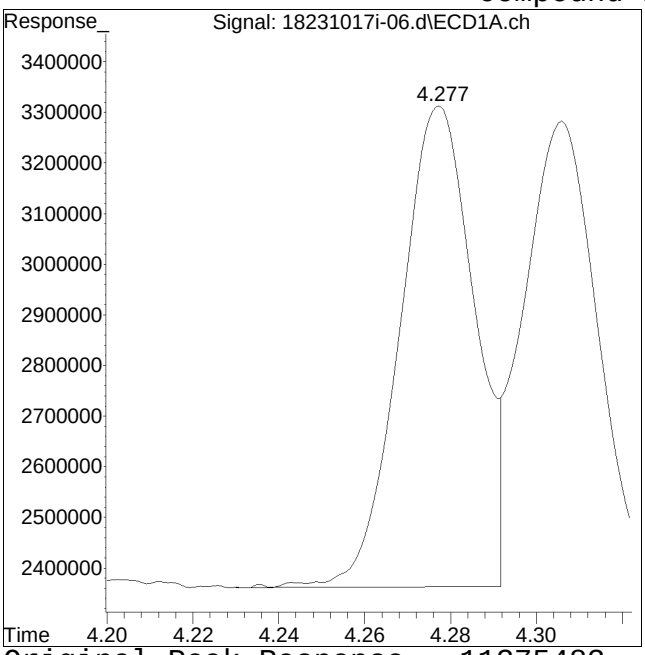


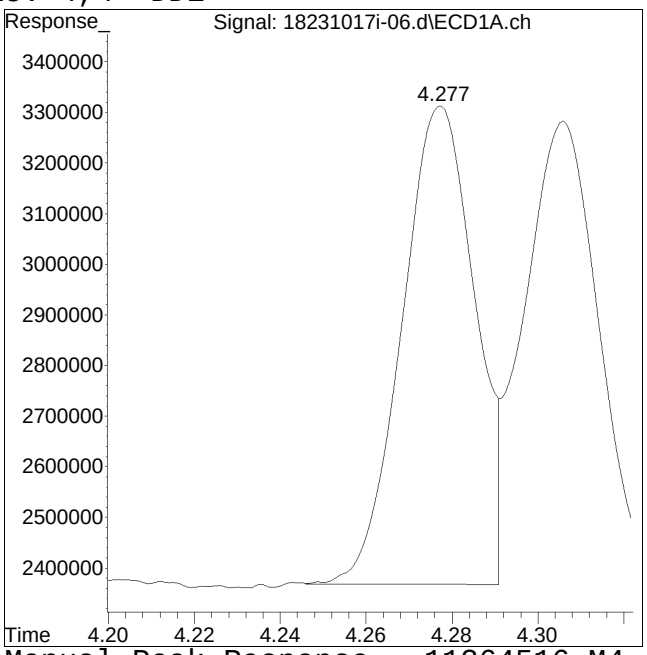
Original Peak Response = 12949562 Manual Peak Response = 12654118 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #15: 4,4'-DDE



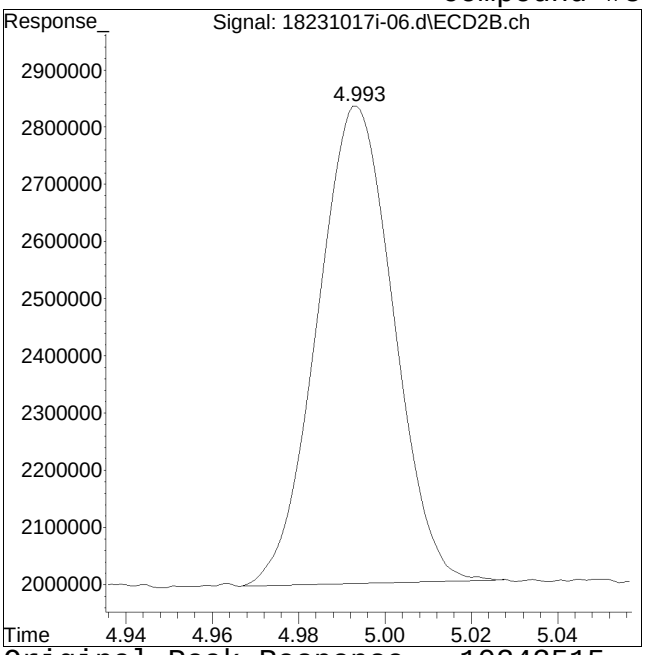


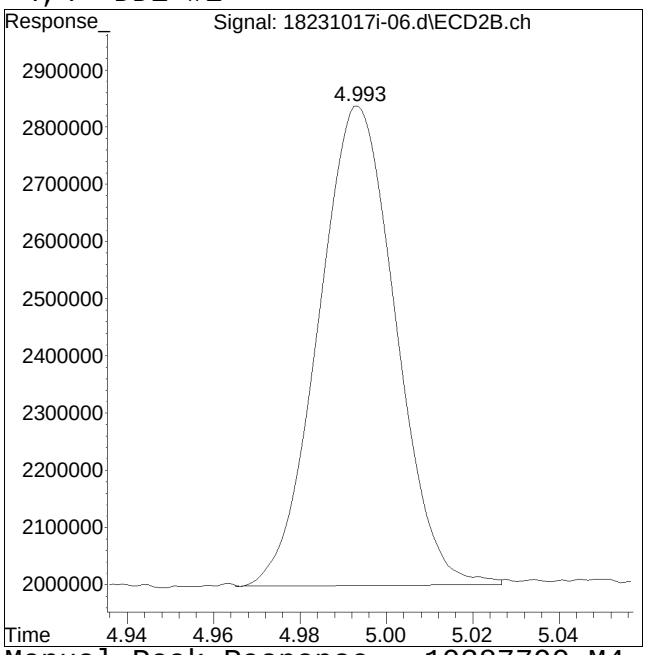
Original Peak Response = 11375483 Manual Peak Response = 11264516 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #53: 4,4'-DDE #2



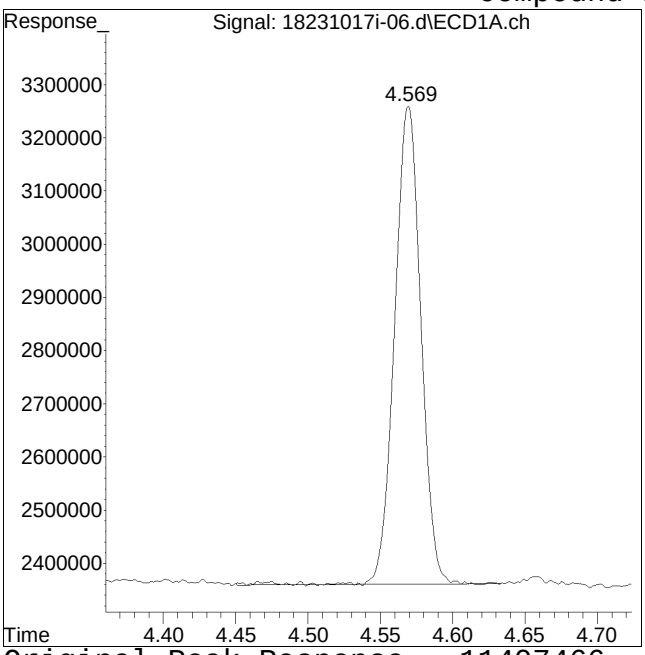


Original Peak Response = 10243515 Manual Peak Response = 10387790 M4
M4 = Poor automated baseline construction.

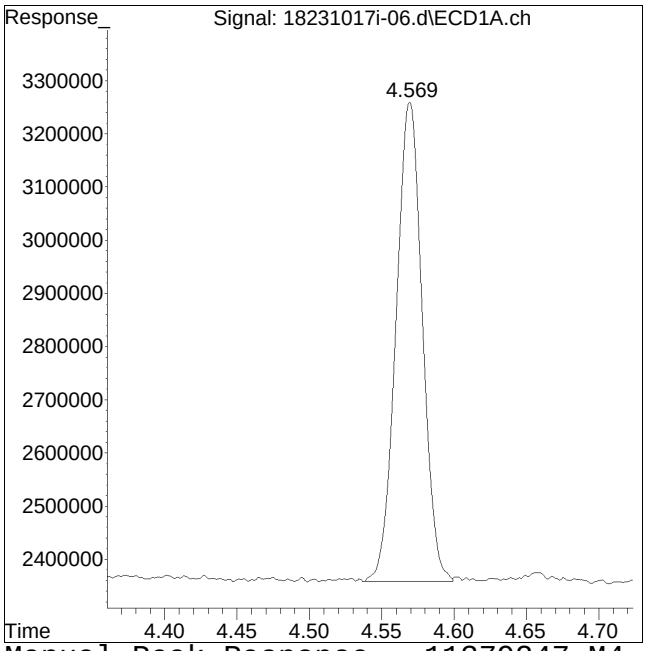
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #17: Dieldrin



Original Peak Response = 11407466



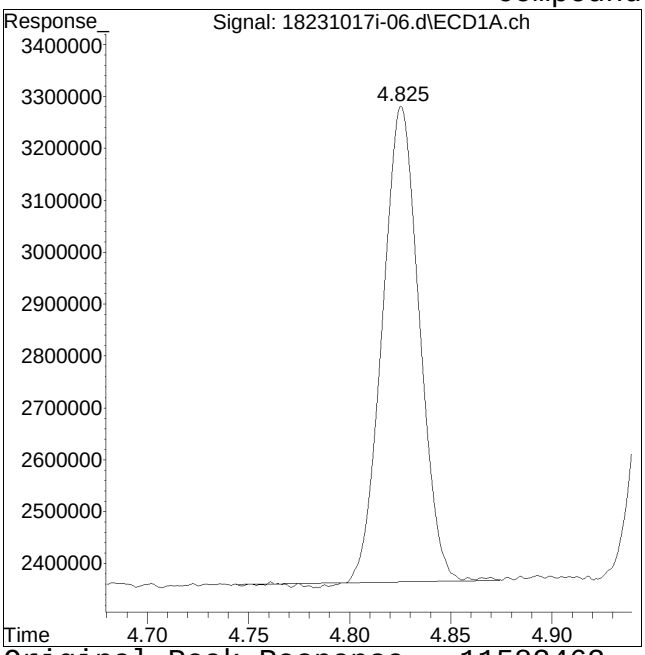
Manual Peak Response = 11379247 M4

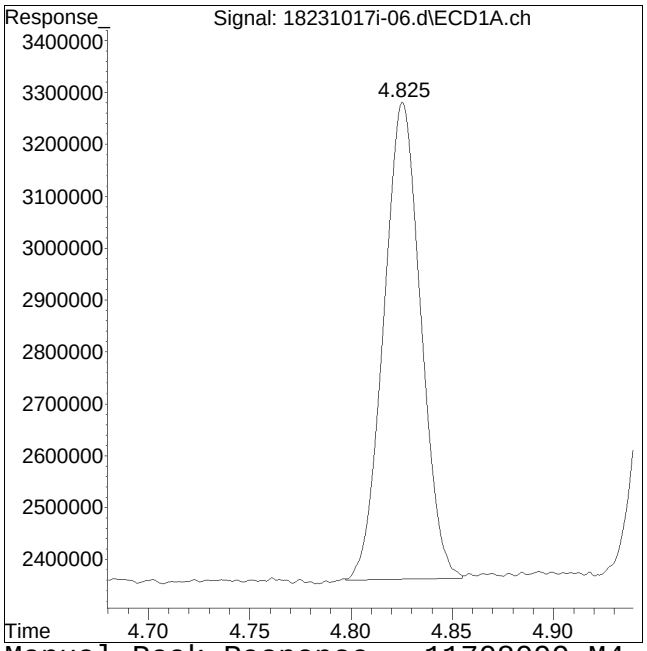
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #18: Endrin



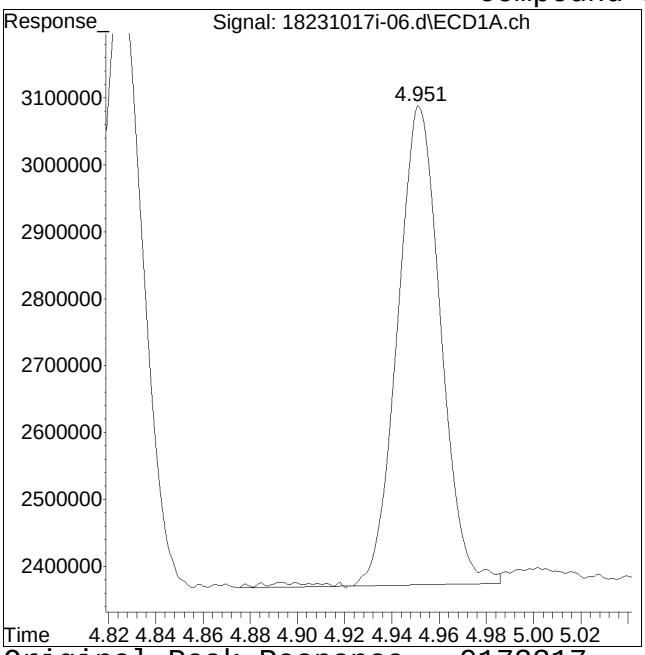


Original Peak Response = 11582462 Manual Peak Response = 11708099 M4
M4 = Poor automated baseline construction.

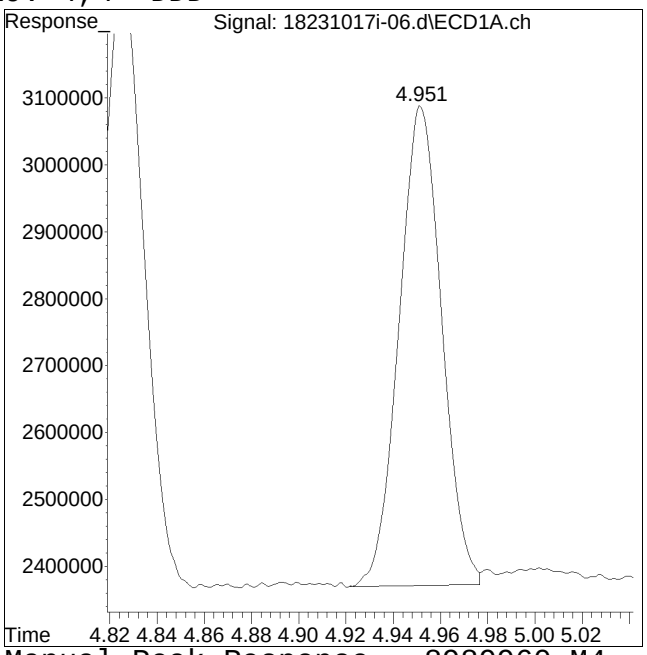
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #19: 4,4'-DDD



Original Peak Response = 9173317



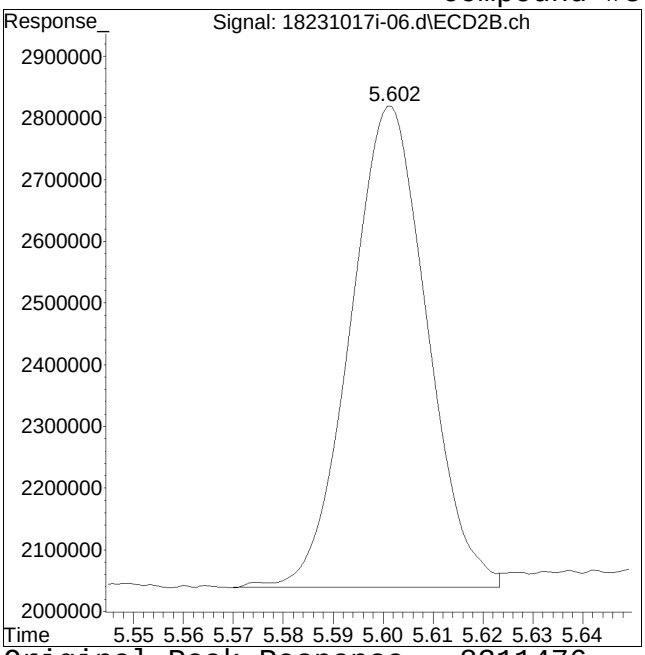
Manual Peak Response = 8989960 M4

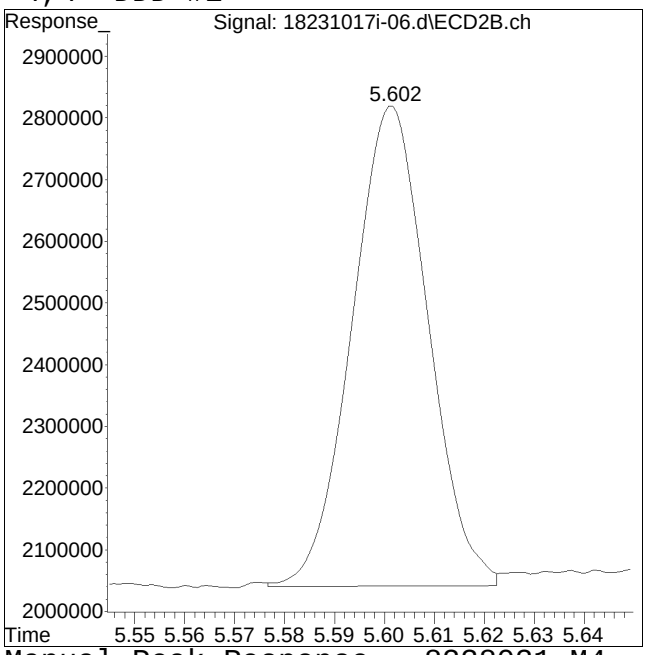
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #57: 4,4'-DDD #2



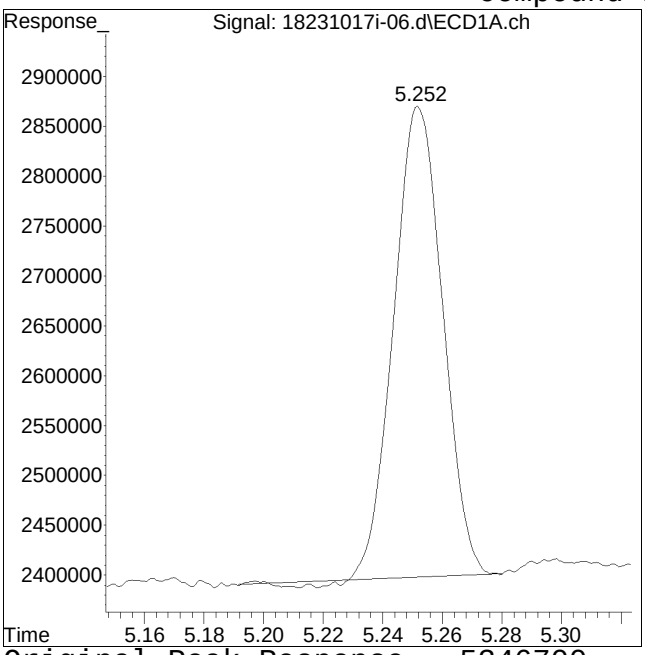


Original Peak Response = 8311476 Manual Peak Response = 8238031 M4
M4 = Poor automated baseline construction.

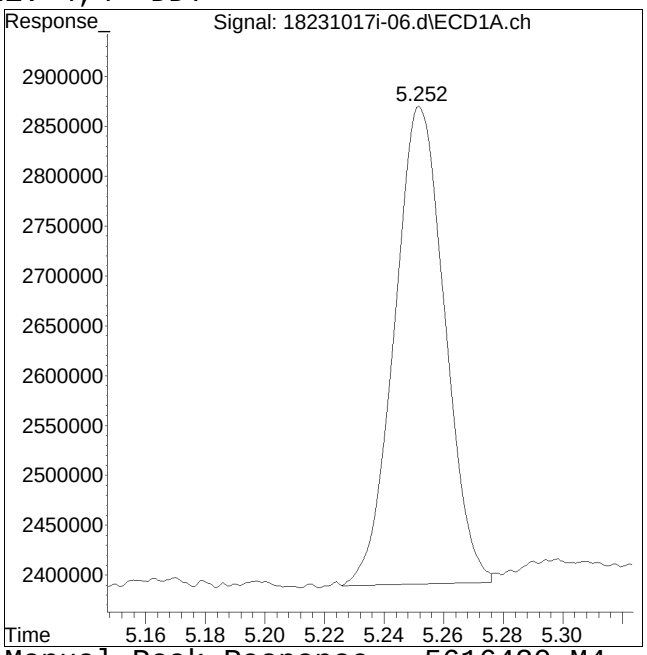
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #21: 4,4'-DDT



Original Peak Response = 5346700



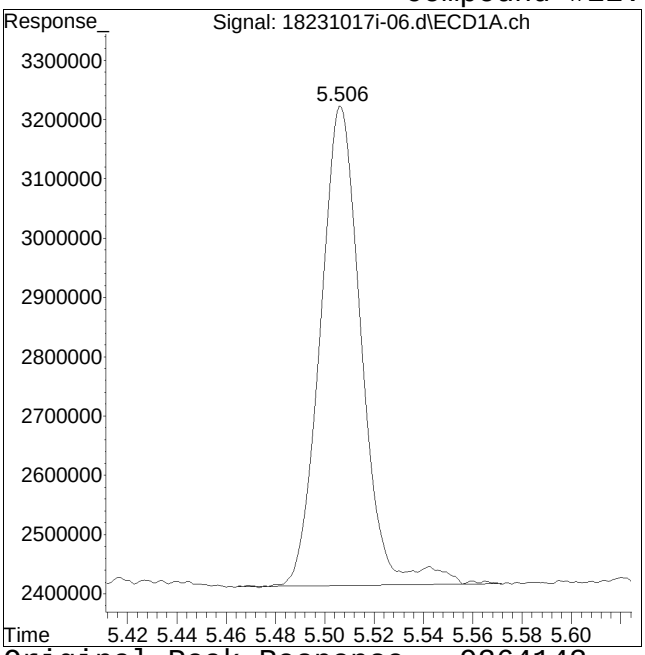
Manual Peak Response = 5616420 M4

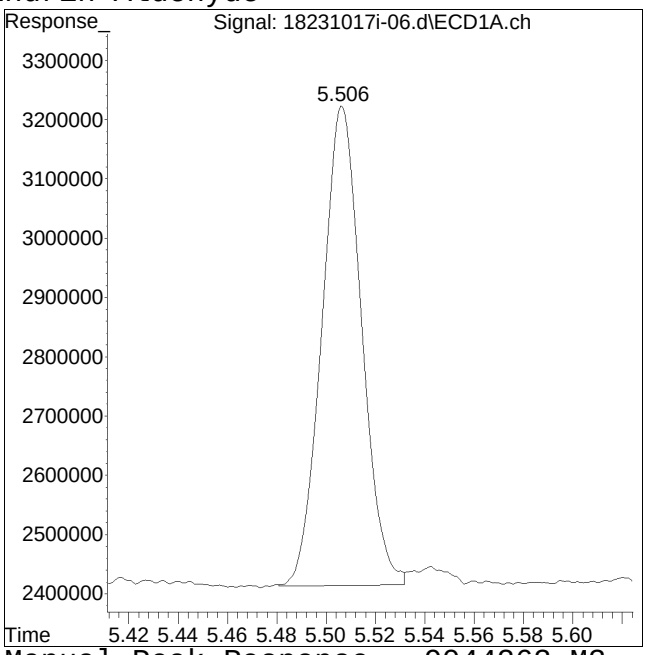
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #22: Endrin Aldehyde



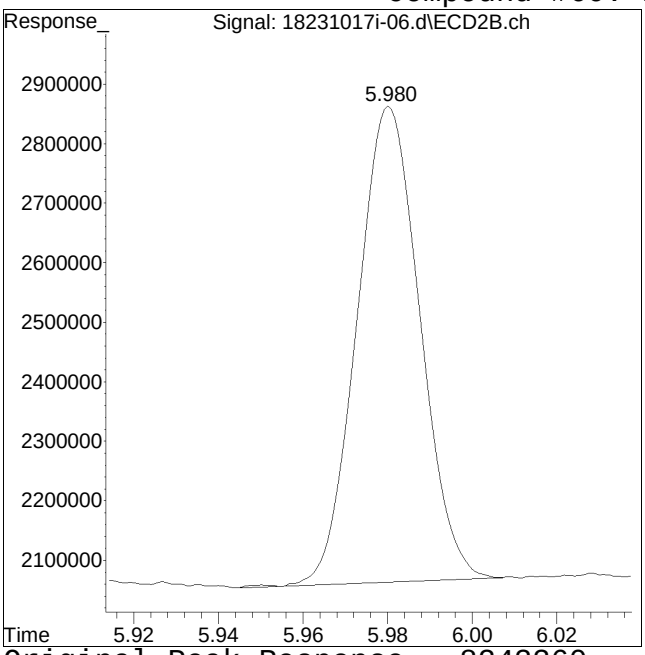


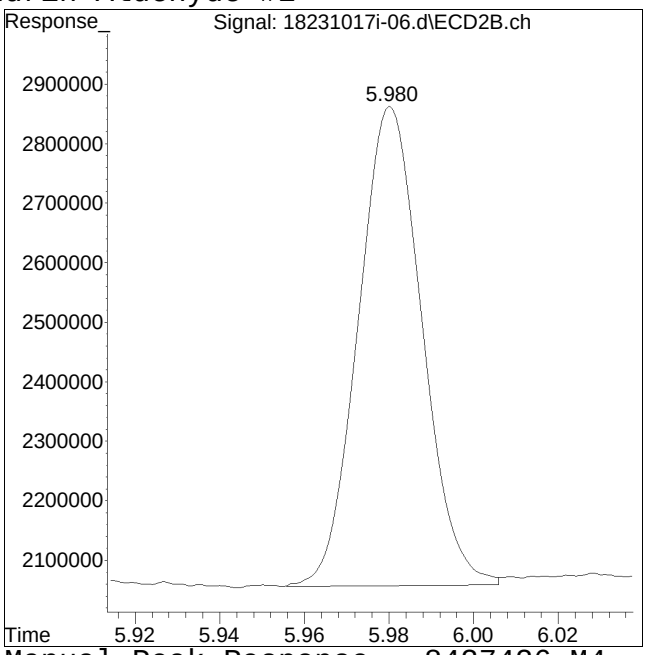
Original Peak Response = 9364143 Manual Peak Response = 9044263 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #60: Endrin Aldehyde #2



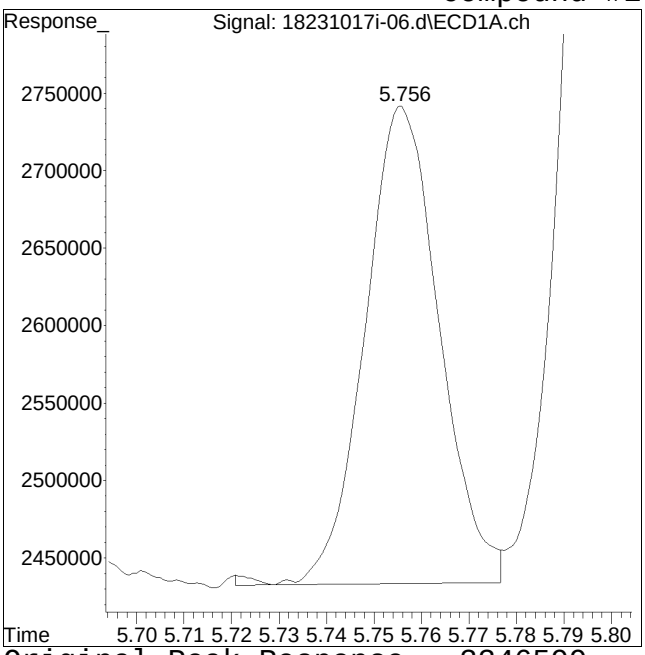


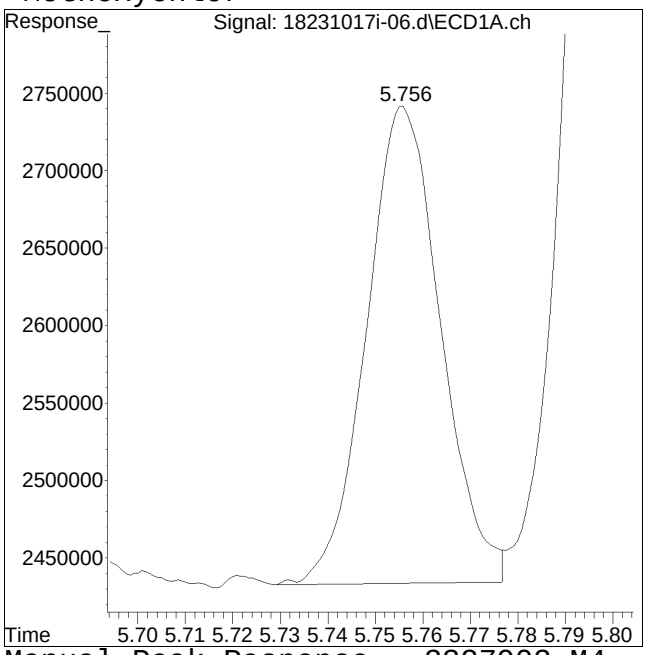
Original Peak Response = 8243360 Manual Peak Response = 8427426 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #23: Methoxychlor



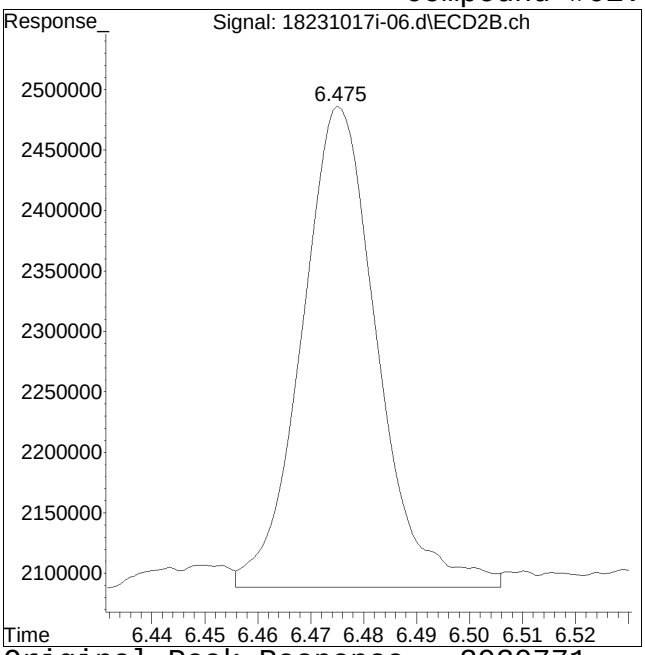


Original Peak Response = 3346599 Manual Peak Response = 3327903 M4
M4 = Poor automated baseline construction.

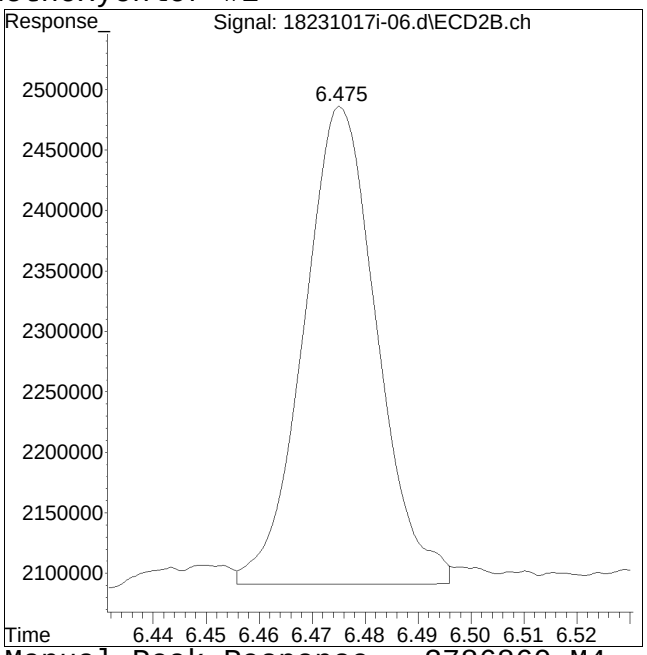
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #61: Methoxychlor #2



Original Peak Response = 3930771



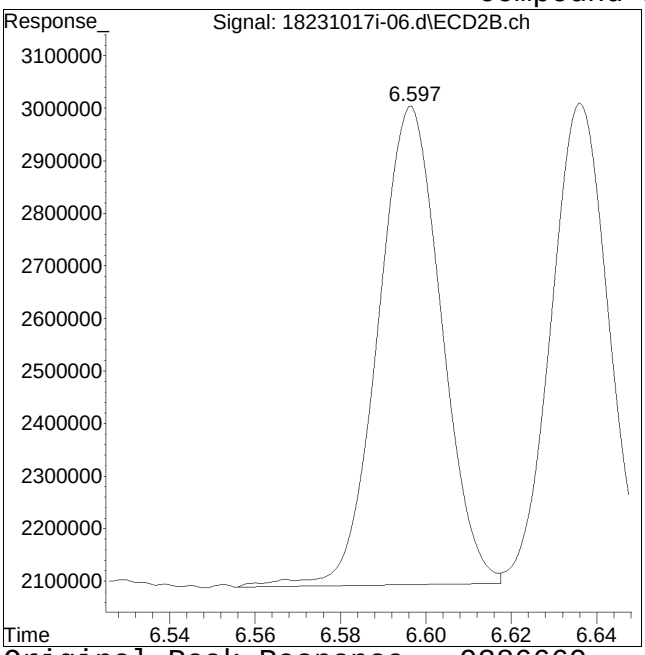
Manual Peak Response = 3786860 M4

M4 = Poor automated baseline construction.

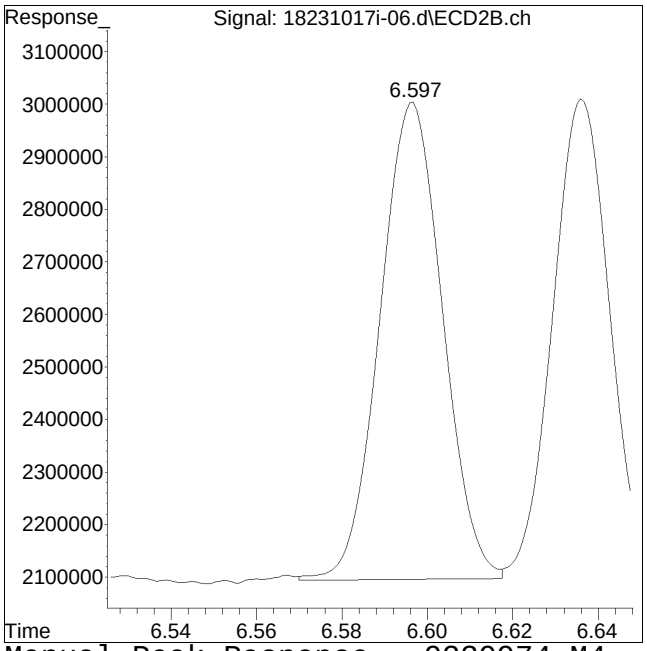
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #62: Mirex #2



Original Peak Response = 9386669



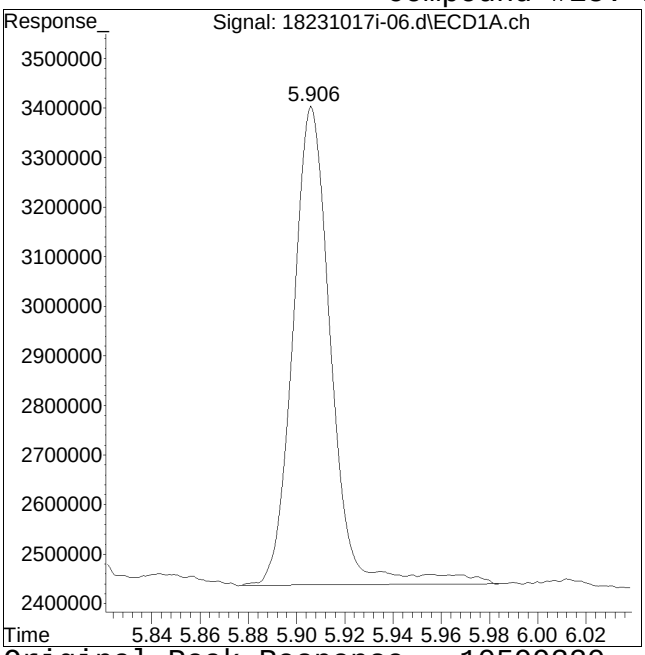
Manual Peak Response = 9239974 M4

M4 = Poor automated baseline construction.

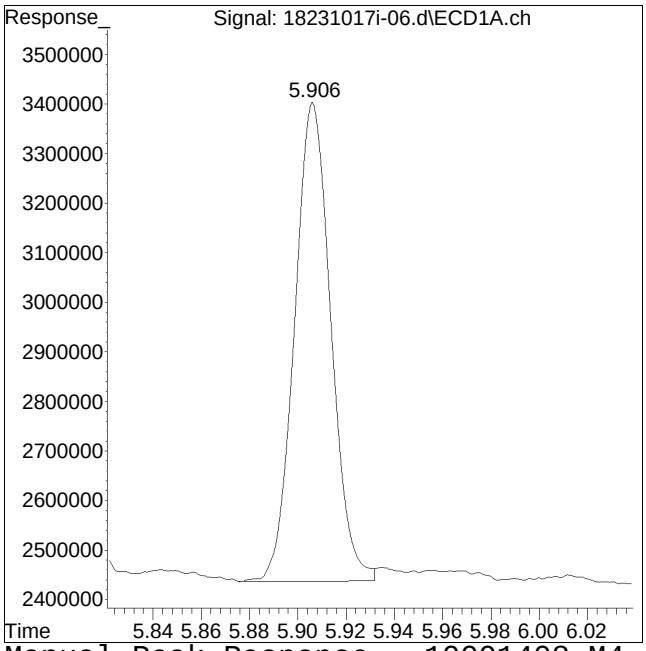
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 10599330



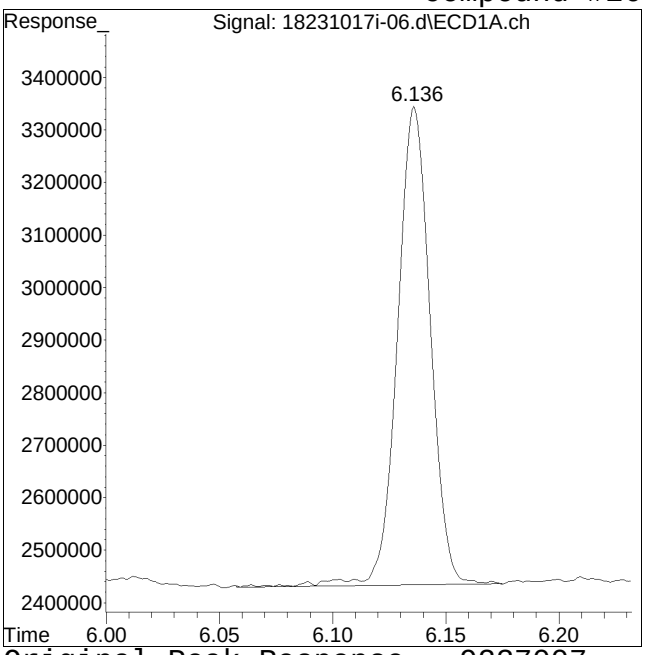
Manual Peak Response = 10091408 M4

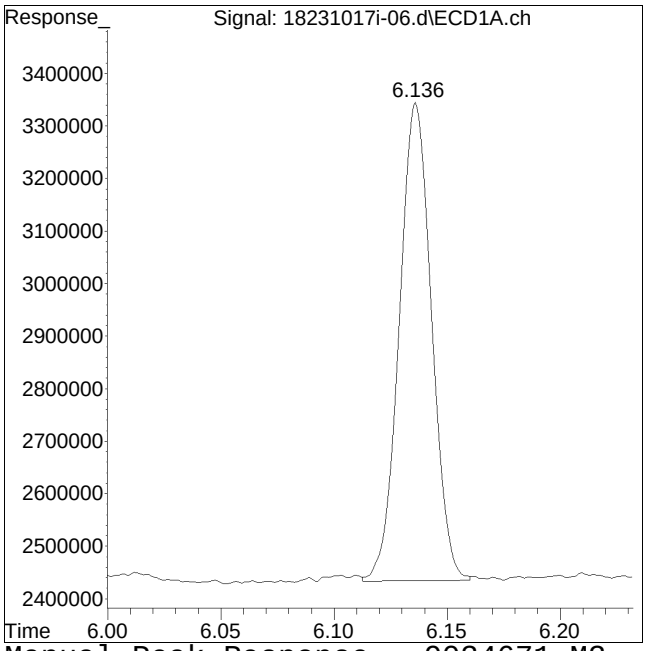
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #26: Endrin Ketone



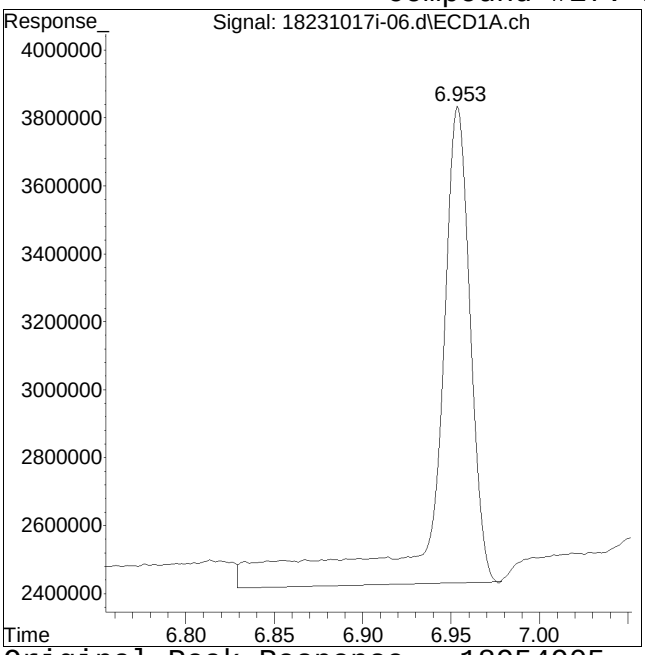


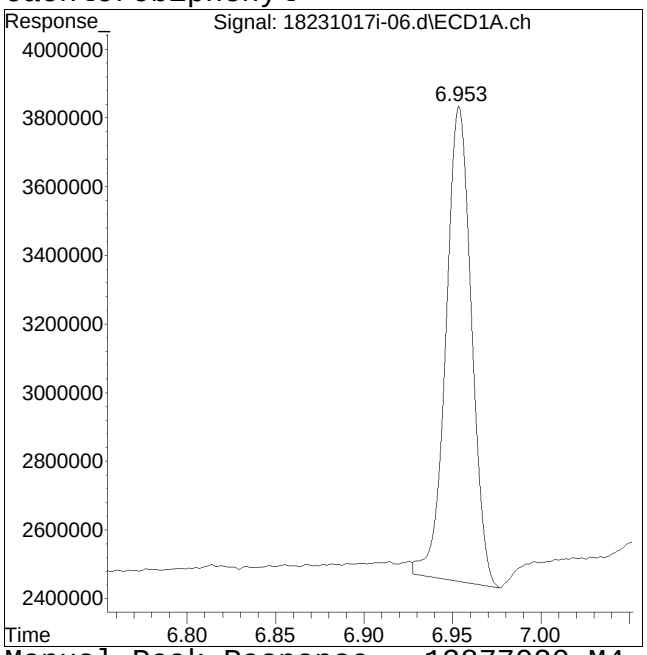
Original Peak Response = 9237007 Manual Peak Response = 9034671 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-06.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 12:48 pm Instrument : Pest 18
Sample : il4pest,42e,,pp 11227 L0.0Quant Date : 10/19/2023 9:24 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 18954905 Manual Peak Response = 13877020 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:00 pm
Operator : PEST18:ejl
Sample : il5pest,42e,,pp 11226 L0.004
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:24:08 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:14:52 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.721	1.770	80369286	70881270	25.000M3	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.155	2.319	14011553	12445296	4.297M4	4.244
	Spiked Amount 50.000	Range 30 - 150		Recovery =		8.59%#	8.49%#
27) s	Decachlorobi	6.954	7.526	17396828	12531760	5.479M4	5.017
	Spiked Amount 50.000	Range 30 - 150		Recovery =		10.96%#	10.03%#
	Target Compounds						
3)	Hexachlorobe	2.397	2.657	16859401	15840832	4.810M3	4.902
4)	alpha-BHC	2.510	2.762	16515728	14884243	3.766M4	3.770
5)	gamma-BHC (l	2.730	3.053	15651314	14187388	3.919M3	3.933
6)	beta-BHC	2.798	3.128	8249204	7440717	4.493M4	4.475
7)	delta-BHC	2.934	3.396	15758289	14137753	3.855M3	3.848
8)	Heptachlor	3.096	3.448	15601083	14359258	4.204M3	4.181
9)	Aldrin	3.346	3.764	14723335	13356174	3.982M4	3.944
10)	Alachlor	3.484	3.665	2882283	2269848	4.786M4	4.675
11)	Chlorpyrifos	3.581	4.017	8930395	8349023	5.024	5.032M4
12)	Heptachlor E	3.907	4.379	14967891	13536184	4.270M3	4.199
13)	gamma-Chlord	4.035	4.599	16848072	12551447	5.077M4	4.294M3
14)	alpha-Chlord	4.171	4.772	15782389	14055546	4.372M3	4.309
15)	4,4'-DDE	4.277	4.993	14464325	13071624	3.948M4	3.910M3
16)	Endosulfan I	4.306	4.834	14363923	12779370	4.344M4	4.198M4
17)	Dieldrin	4.569	5.147	15485152	12799729	4.358M4	4.065
18)	Endrin	4.826	5.459	14896295	12677315	4.032M4	3.985
19)	4,4'-DDD	4.952	5.601	11376112	10218999	3.851M4	3.830M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:00 pm
Operator : PEST18:ejl
Sample : il5pest,42e,,pp 11226 L0.004
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:24:08 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:14:52 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	5.078	5.671	13339977	12060455	4.186	4.263M3
21)	4,4'-DDT	5.252	5.888	7008170	8332186	2.596M4	3.335M4
22)	Endrin Aldeh	5.507	5.981	11491877	11341654	4.226M3	4.639
23)	Methoxychlor	5.757	6.475	4797277	5028136	3.312M4	3.718M4
24)	Mirex	5.801	6.596	13927144	11730568	5.056M3	5.089M3
25)	Endosulfan S	5.907	6.218	12642289	11704473	4.219M3	4.510
26)	Endrin Keton	6.136	6.637	11746691	10855480	3.795M3	3.914
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:00 pm
Operator : PEST18:ejl
Sample : il5pest,42e,,pp 11226 L0.004
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:24:08 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:14:52 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

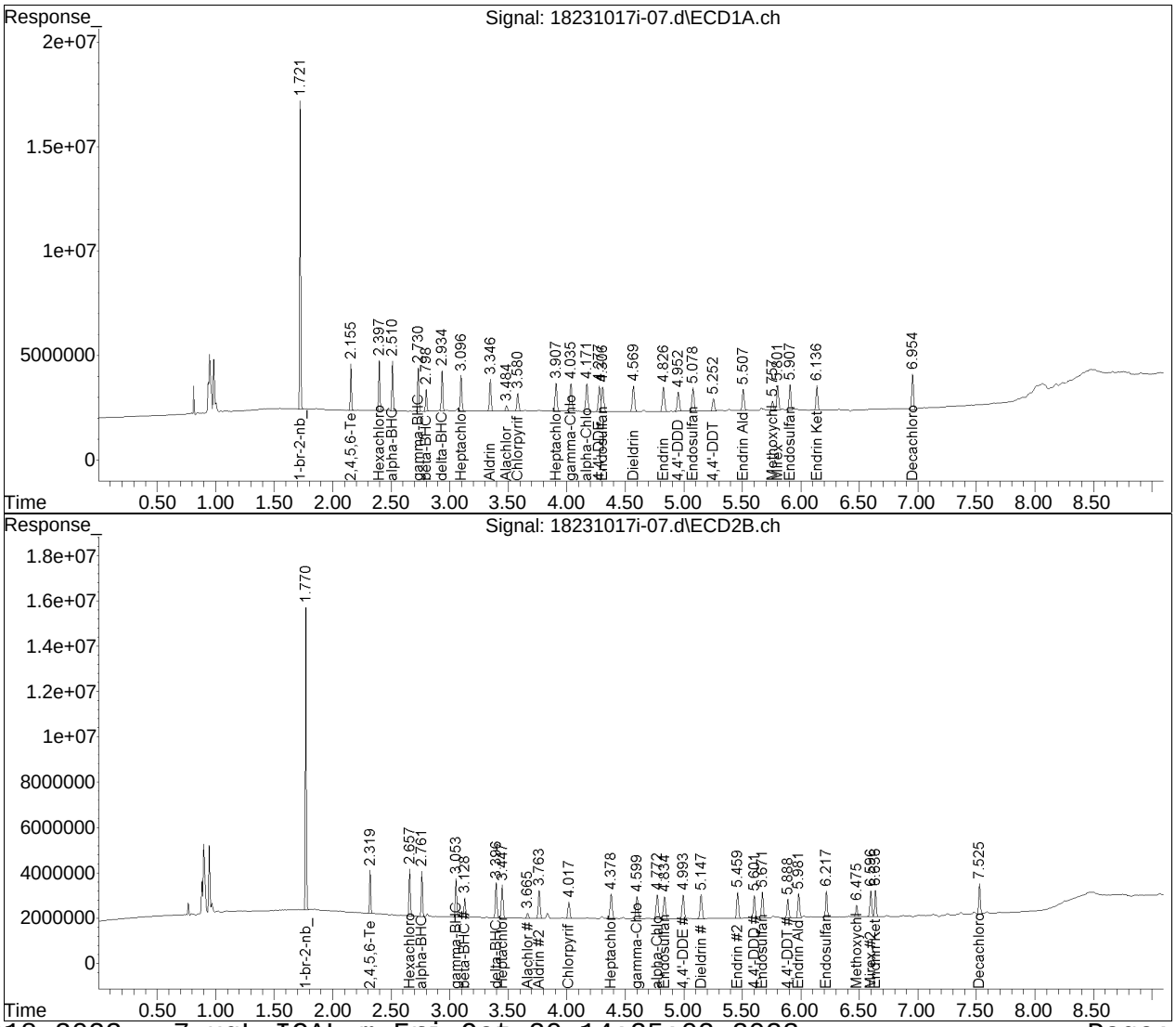
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:00 pm
Operator : PEST18:ejl
Sample : il5pest,42e,,pp 11226 L0.004
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:24:08 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:14:52 2023
Response via : Initial Calibration
Integrator: ChemStation

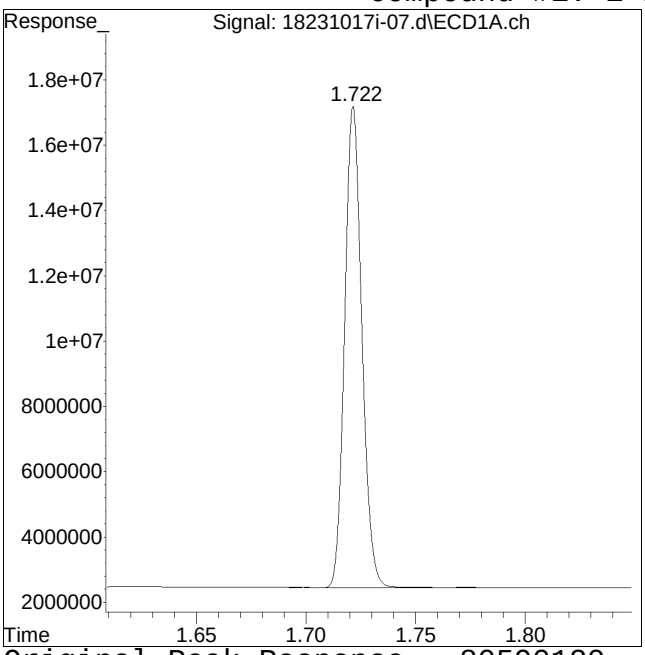
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

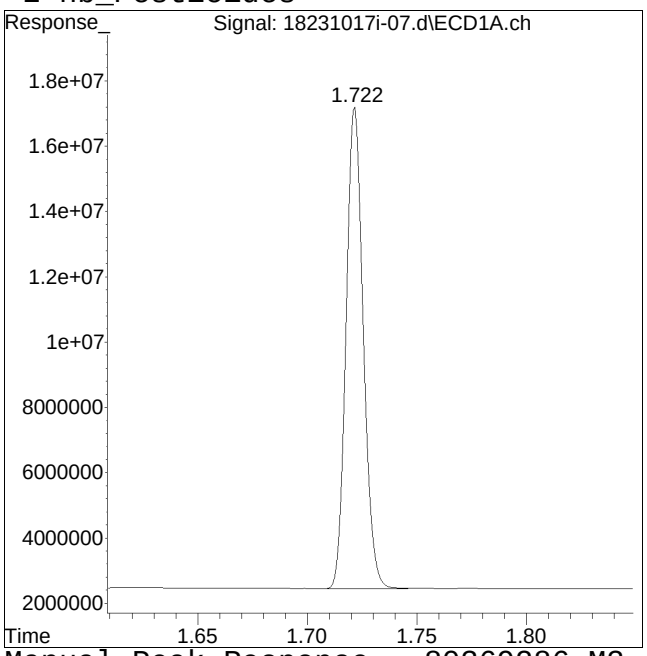


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #1: 1-br-2-nb_Pesticides



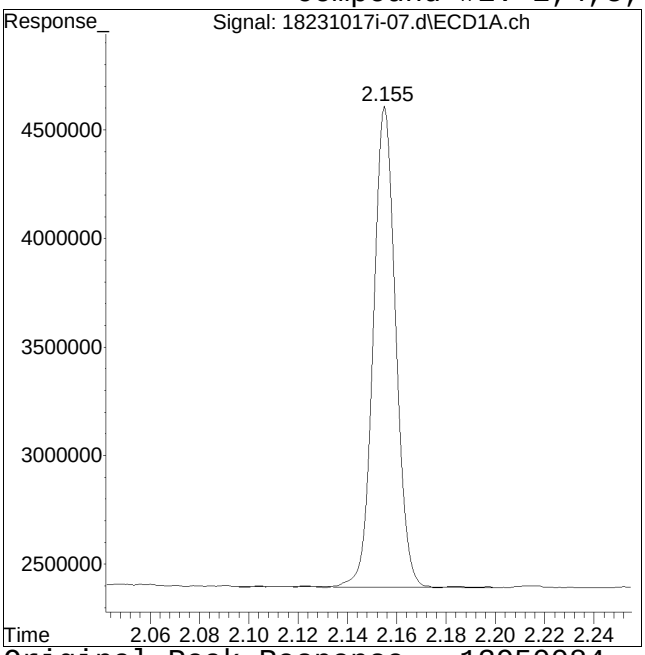


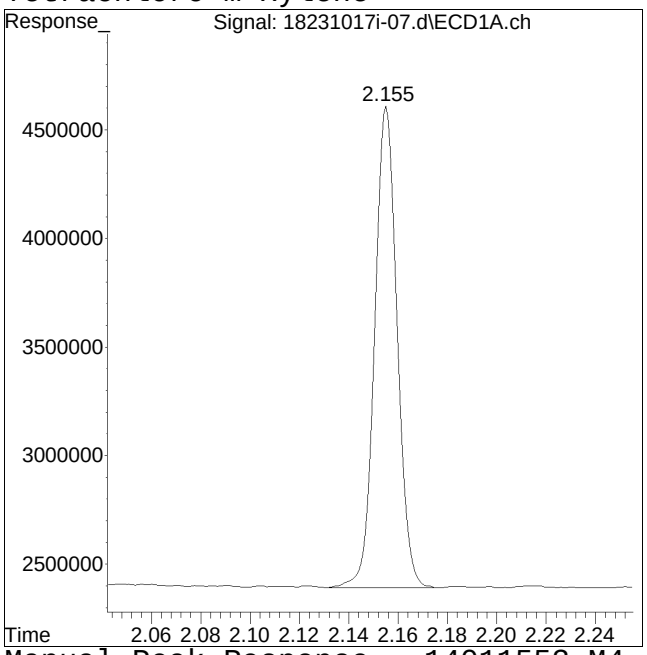
Original Peak Response = 80590120 Manual Peak Response = 80369286 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



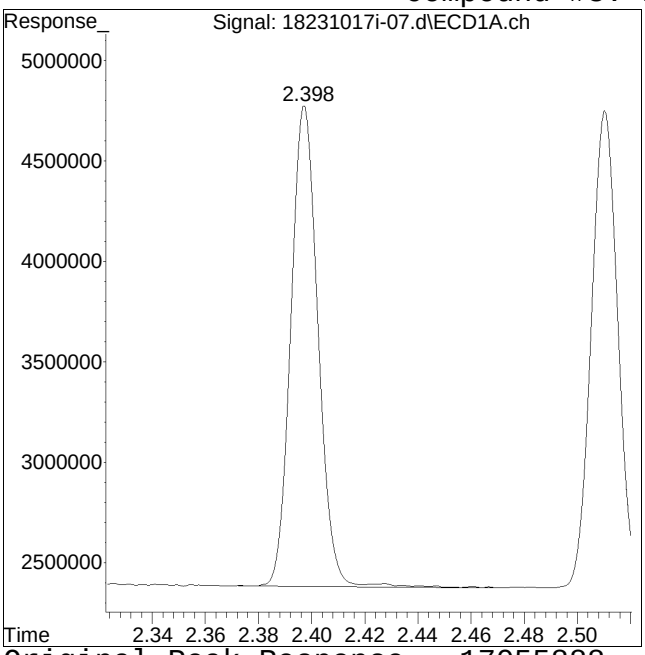


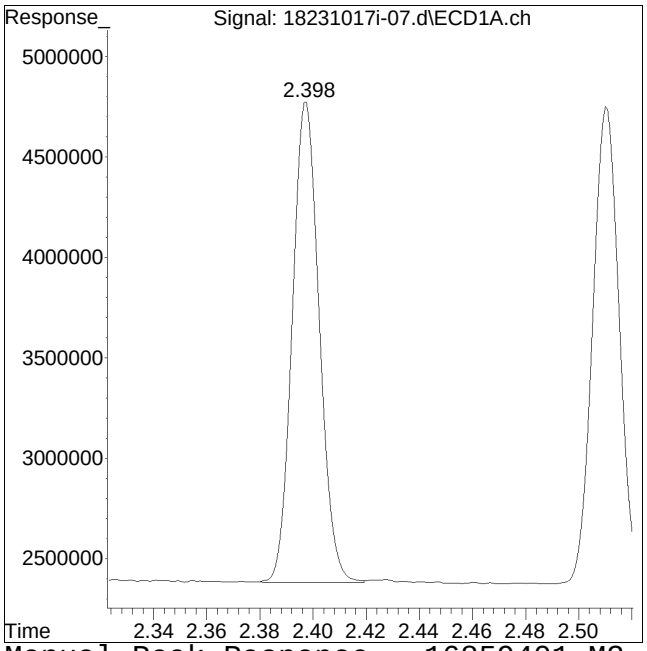
Original Peak Response = 13950084 Manual Peak Response = 14011553 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #3: Hexachlorobenzene



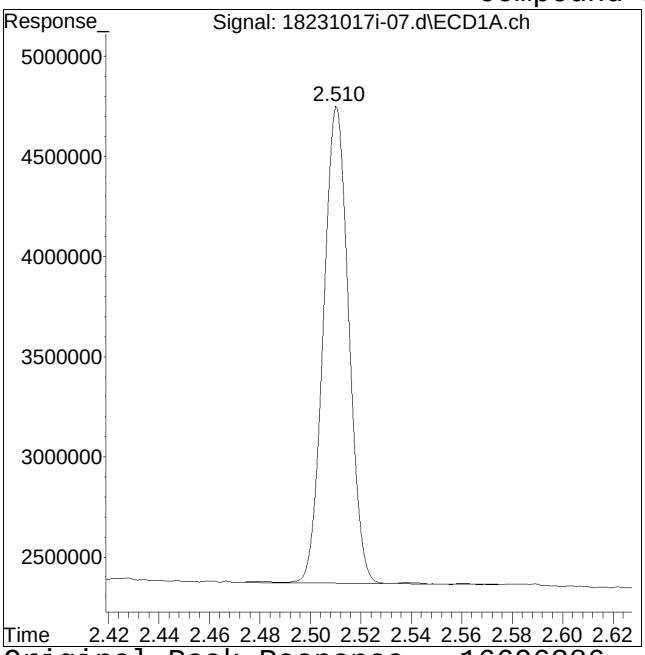


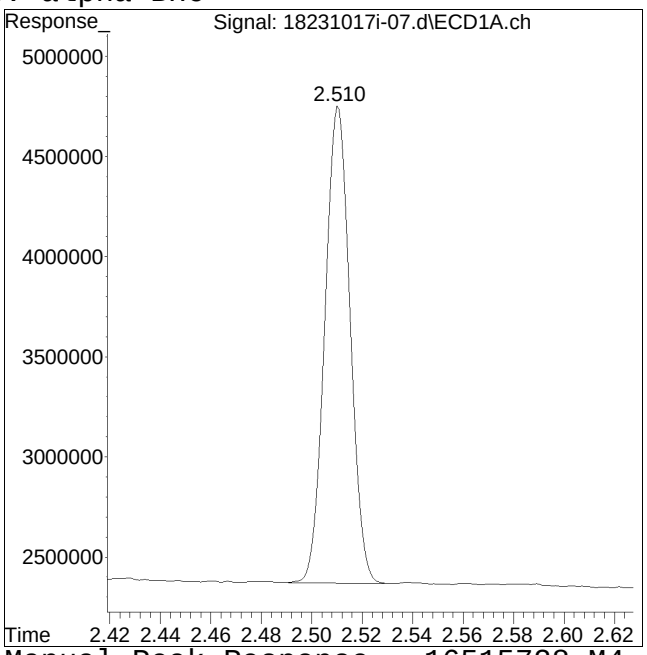
Original Peak Response = 17055888 Manual Peak Response = 16859401 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #4: alpha-BHC



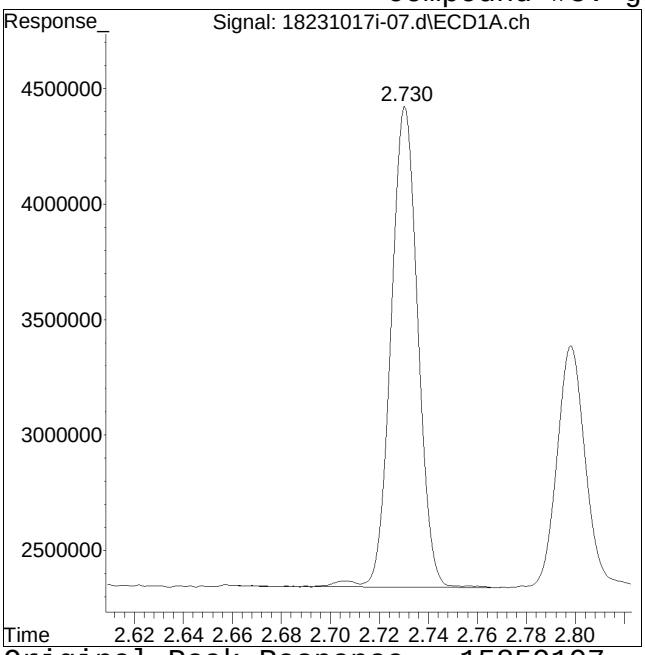


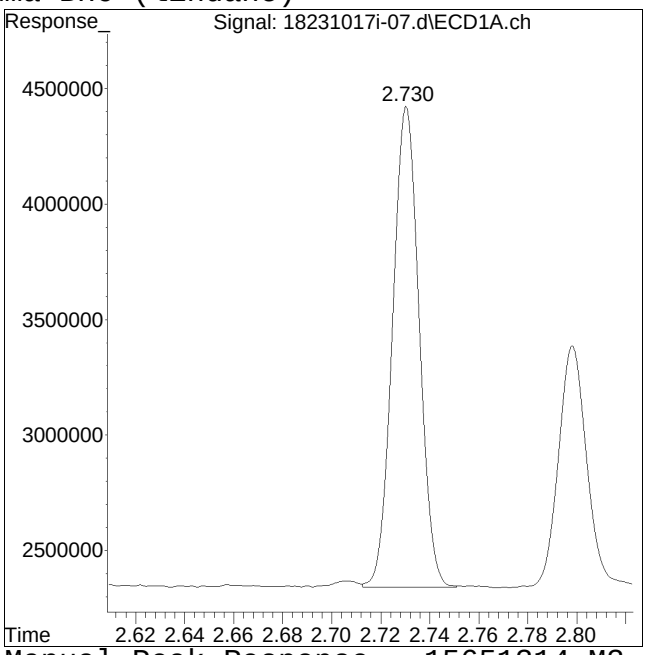
Original Peak Response = 16606386 Manual Peak Response = 16515728 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #5: gamma-BHC (lindane)



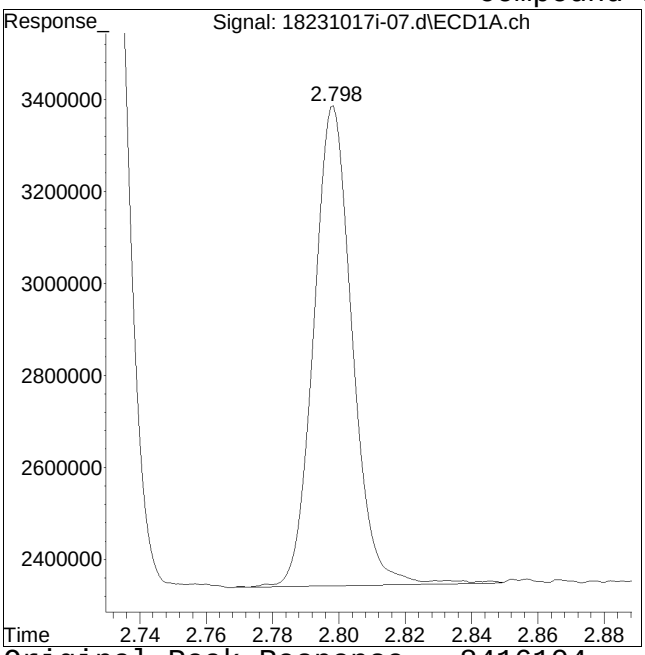


Original Peak Response = 15859197 Manual Peak Response = 15651314 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

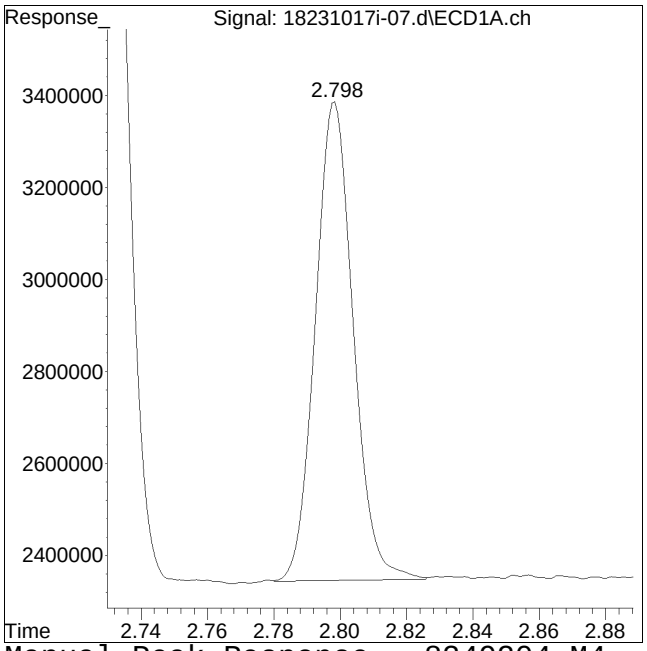
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #6: beta-BHC



Original Peak Response = 8416104



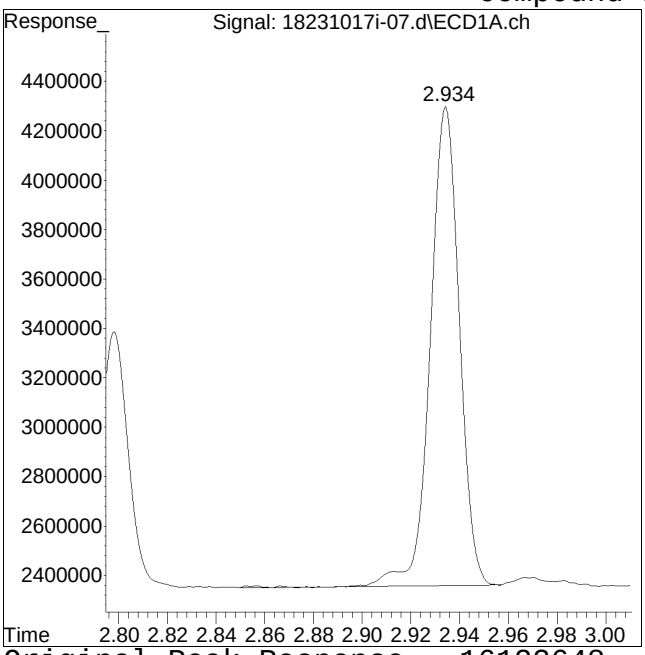
Manual Peak Response = 8249204 M4

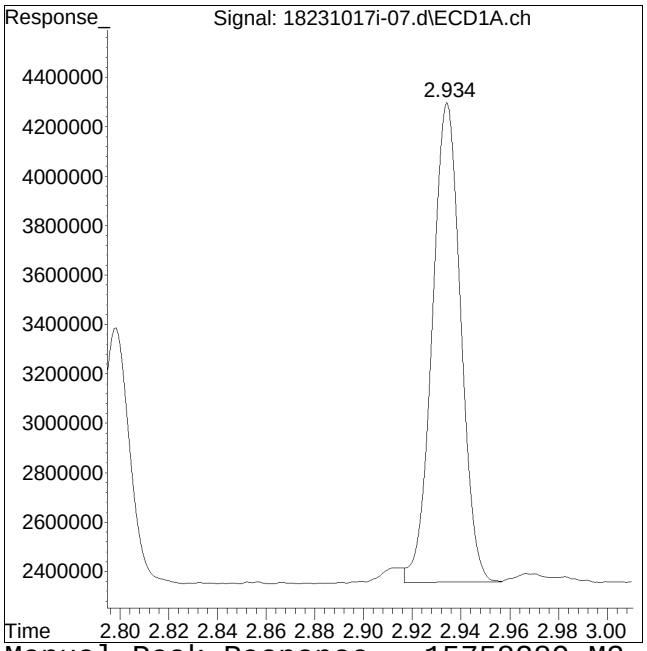
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #7: delta-BHC



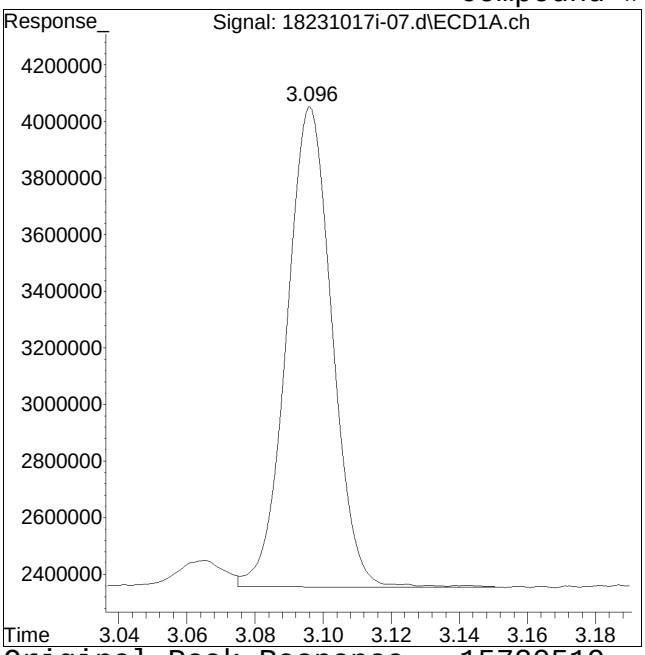


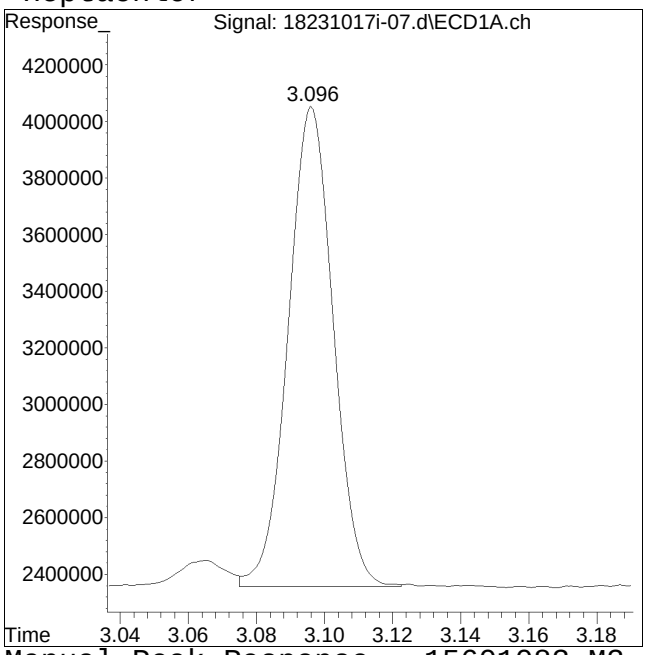
Original Peak Response = 16122648 Manual Peak Response = 15758289 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #8: Heptachlor



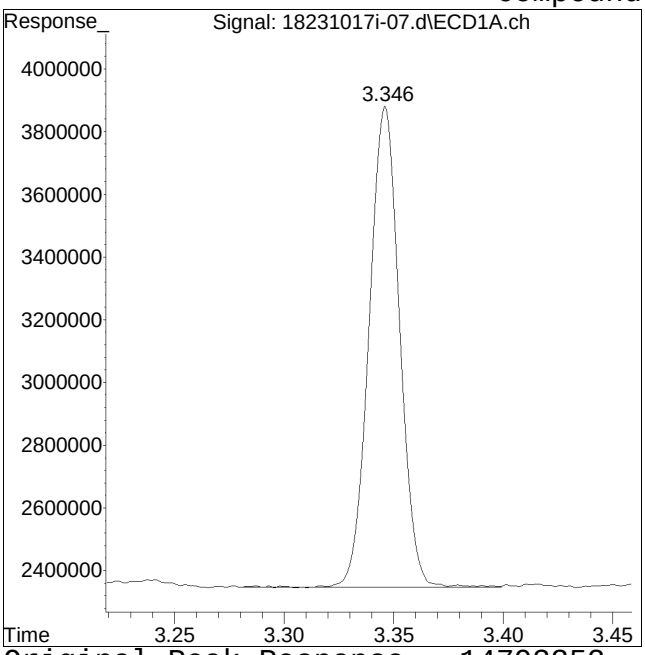


Original Peak Response = 15720519 Manual Peak Response = 15601083 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

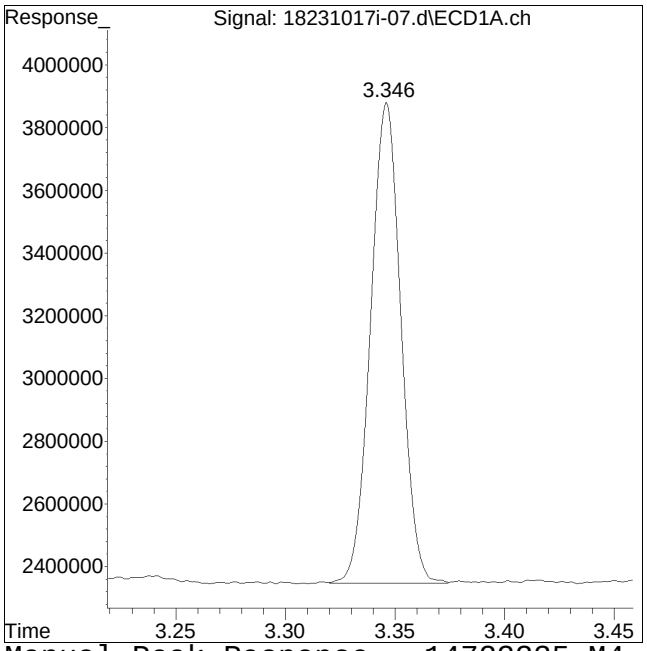
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #9: Aldrin



Original Peak Response = 14793352



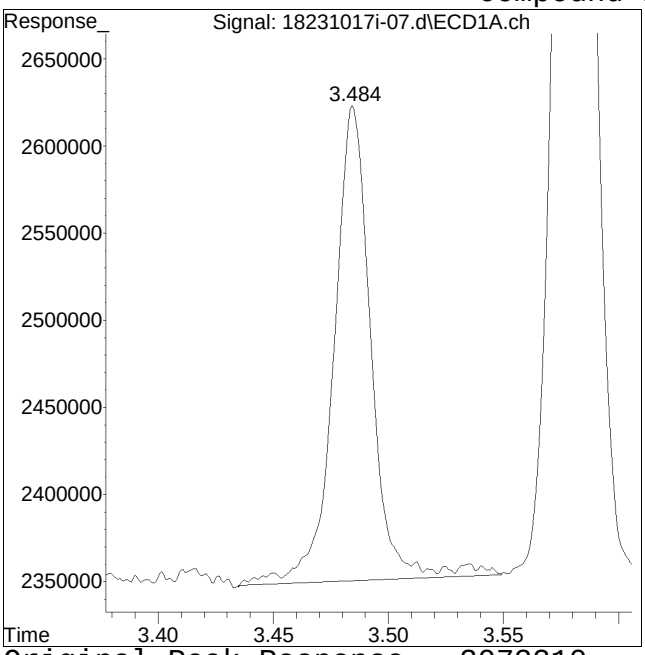
Manual Peak Response = 14723335 M4

M4 = Poor automated baseline construction.

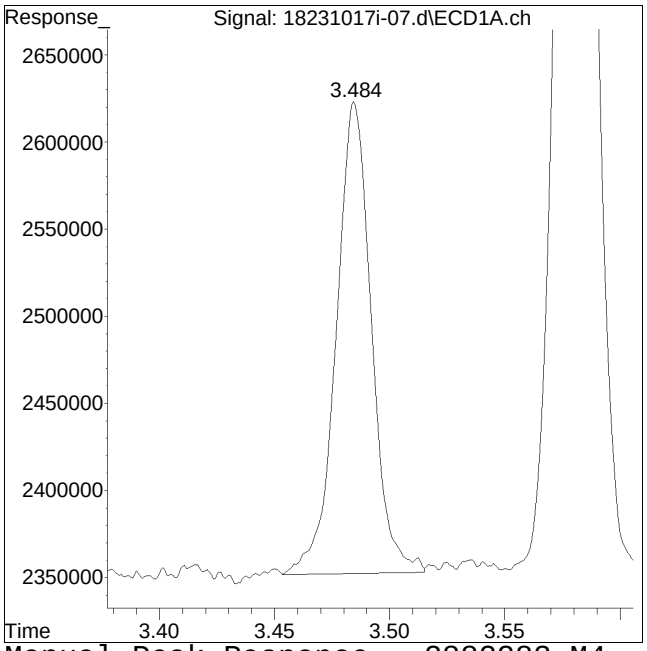
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #10: Alachlor



Original Peak Response = 3073210



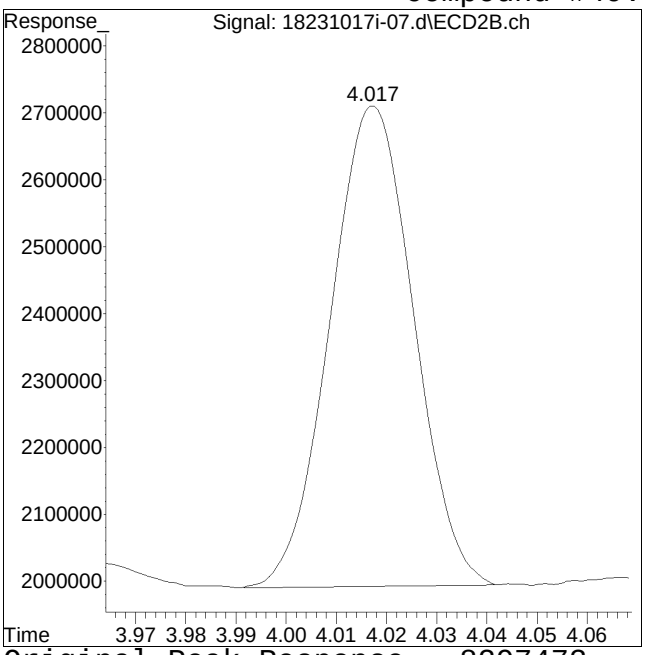
Manual Peak Response = 2882283 M4

M4 = Poor automated baseline construction.

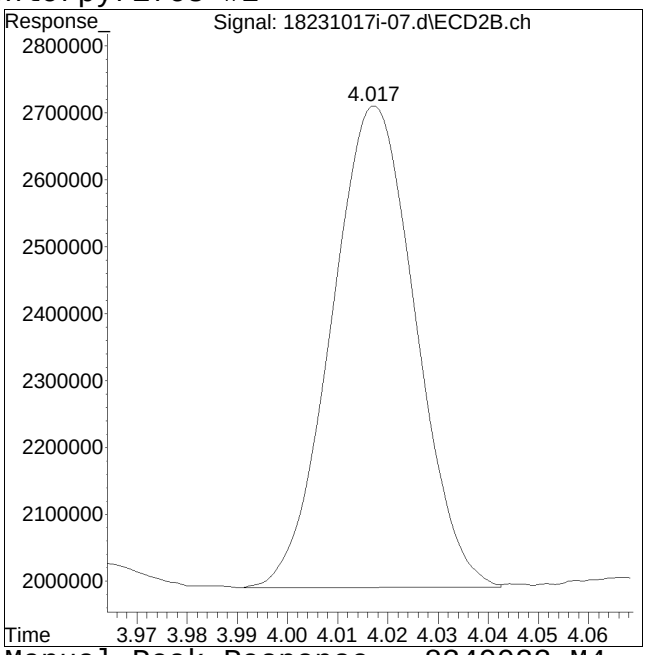
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #49: Chlorpyrifos #2



Original Peak Response = 8297473



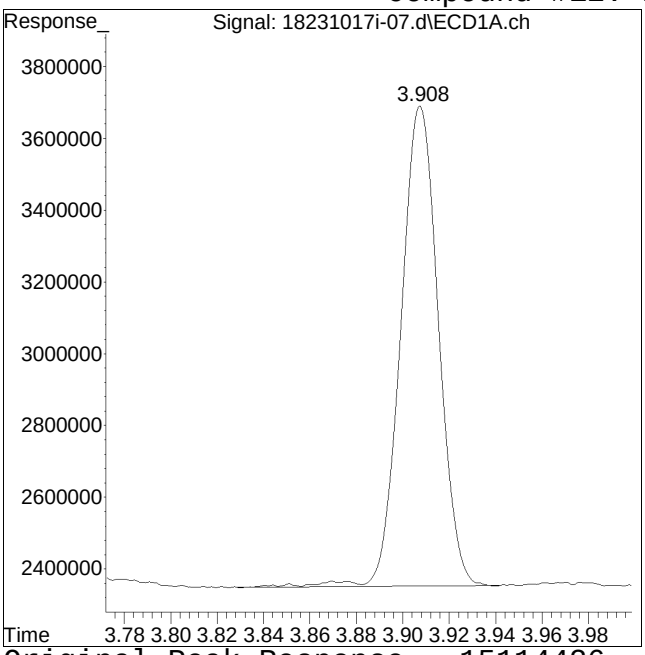
Manual Peak Response = 8349023 M4

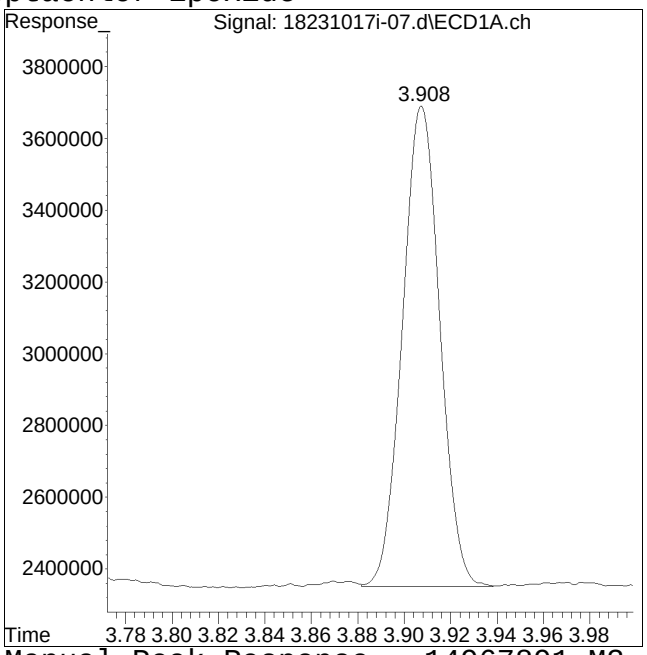
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #12: Heptachlor Epoxide



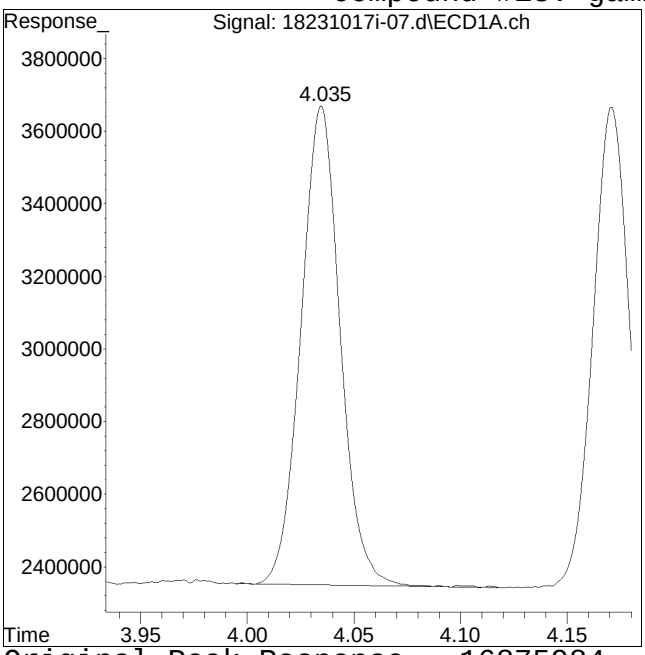


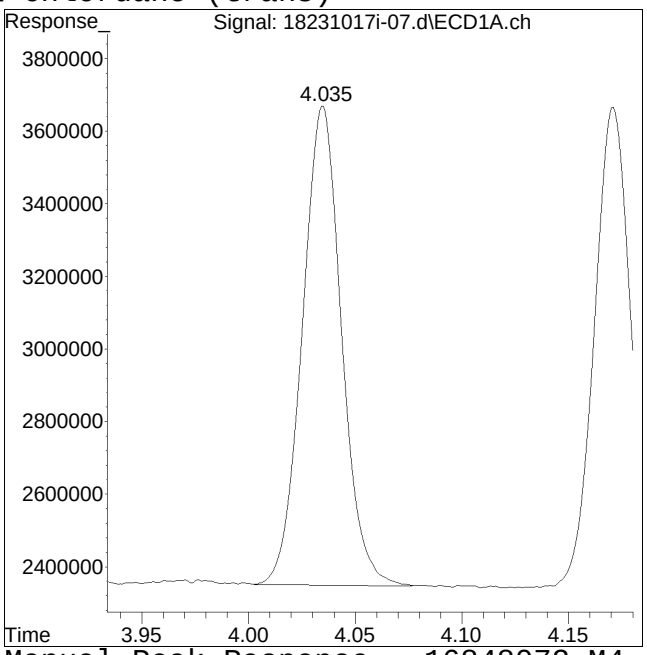
Original Peak Response = 15114426 Manual Peak Response = 14967891 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #13: gamma-Chlordane (trans)



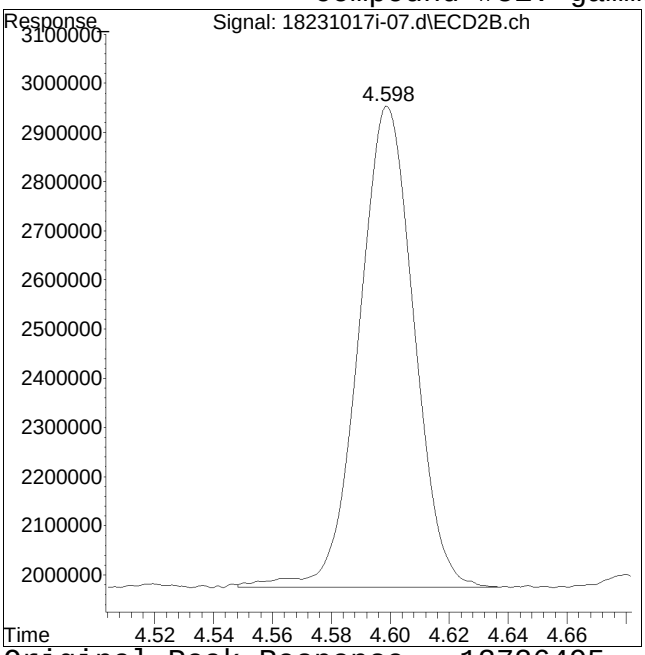


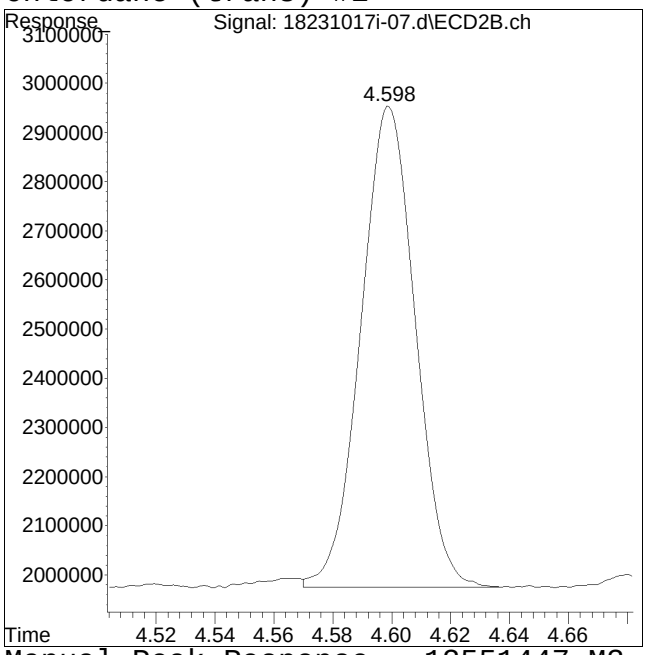
Original Peak Response = 16875984 Manual Peak Response = 16848072 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #51: gamma-Chlordane (trans) #2



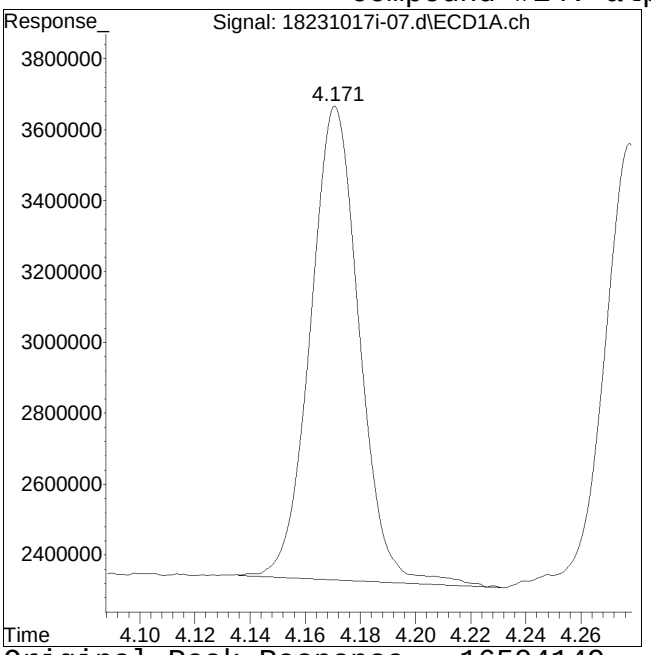


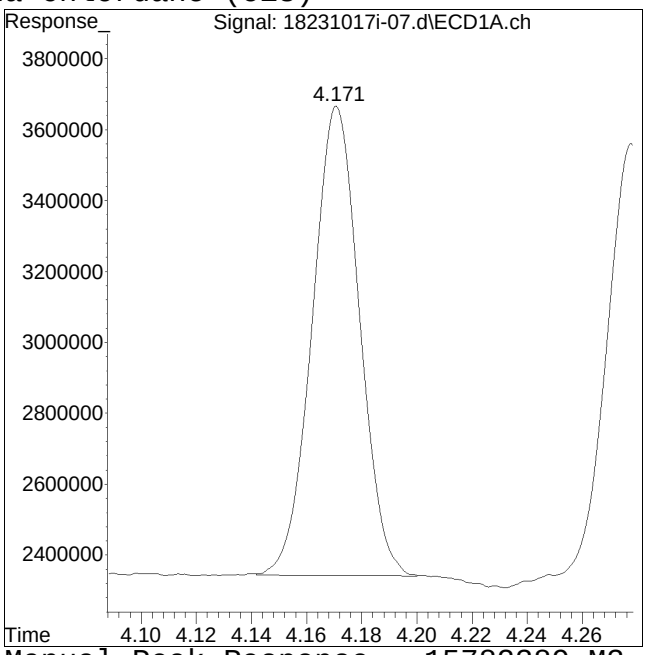
Original Peak Response = 12726495 Manual Peak Response = 12551447 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #14: alpha-Chlordane (cis)



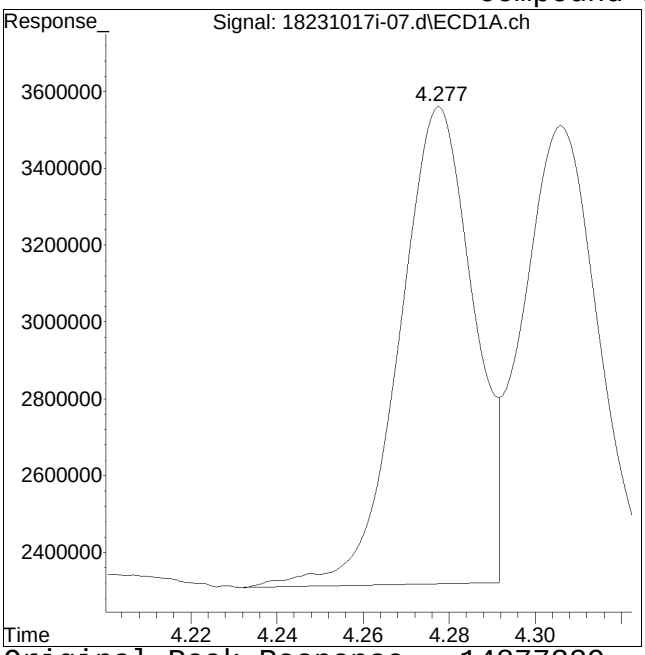


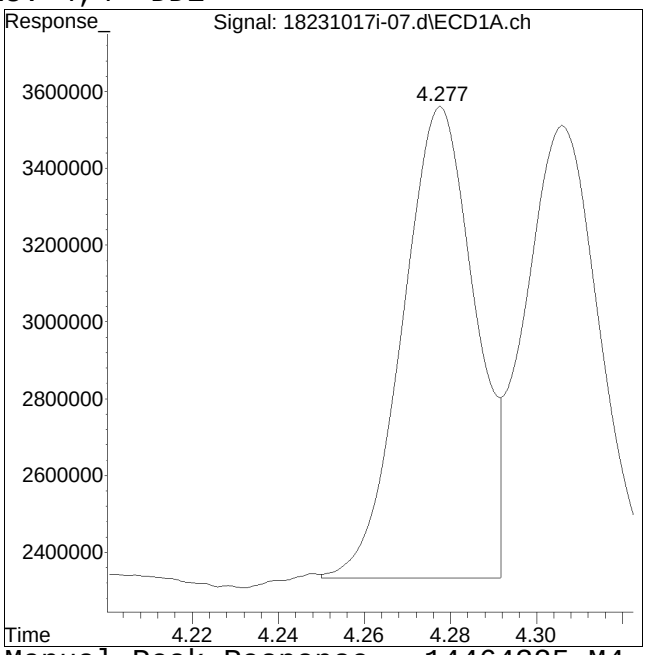
Original Peak Response = 16504149 Manual Peak Response = 15782389 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #15: 4,4'-DDE



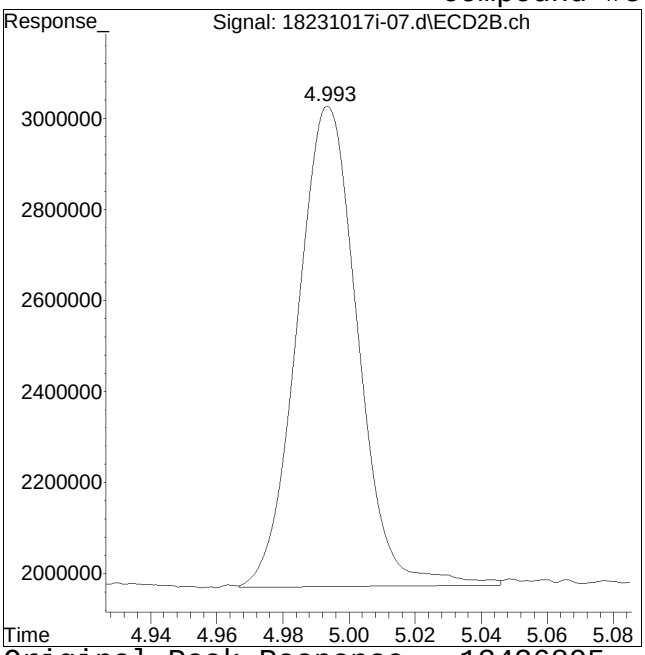


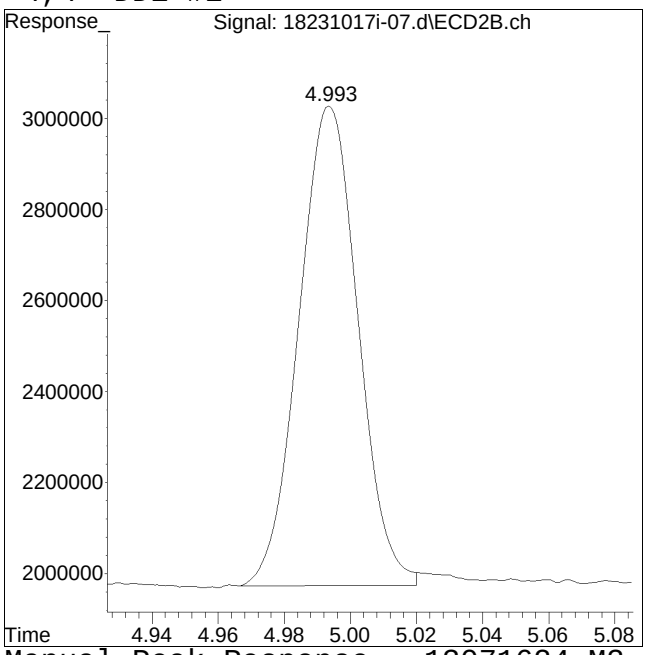
Original Peak Response = 14877339 Manual Peak Response = 14464325 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #53: 4,4'-DDE #2



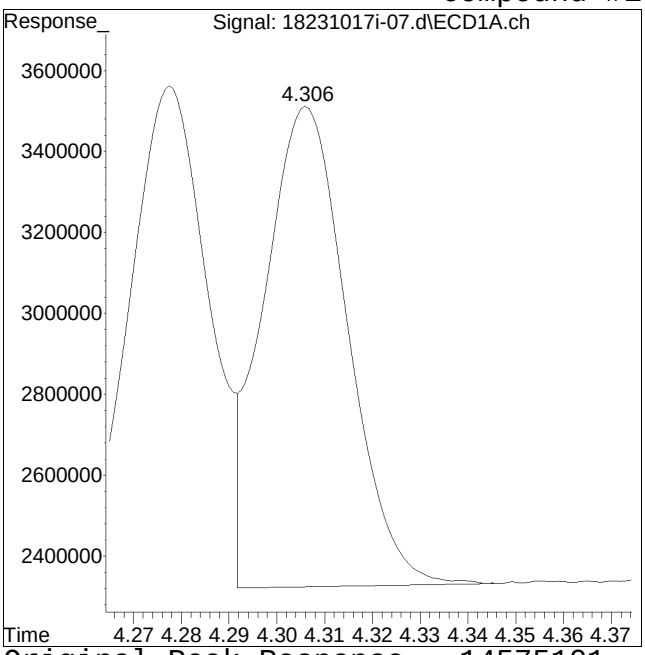


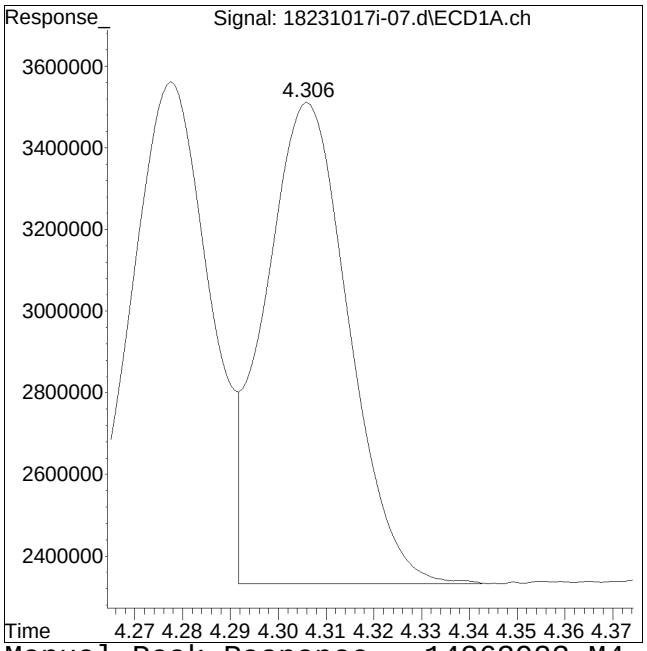
Original Peak Response = 13436895 Manual Peak Response = 13071624 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #16: Endosulfan I



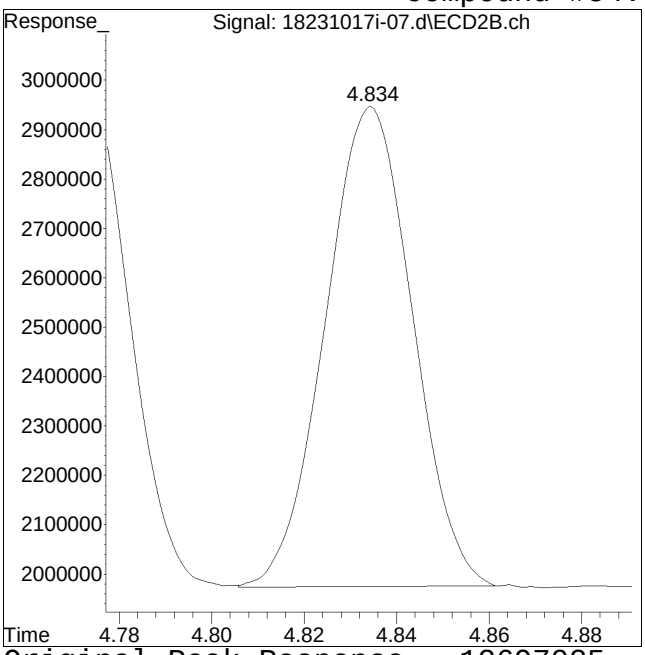


Original Peak Response = 14575101 Manual Peak Response = 14363923 M4
M4 = Poor automated baseline construction.

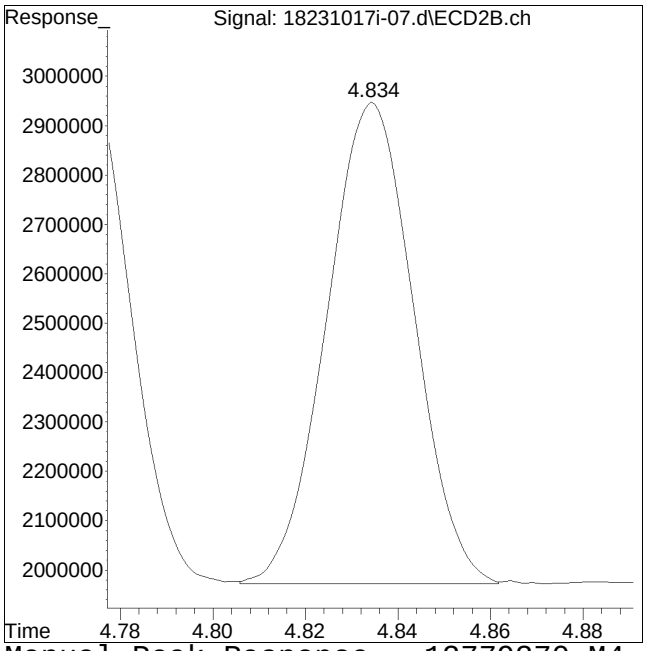
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #54: Endosulfan I #2



Original Peak Response = 12697025



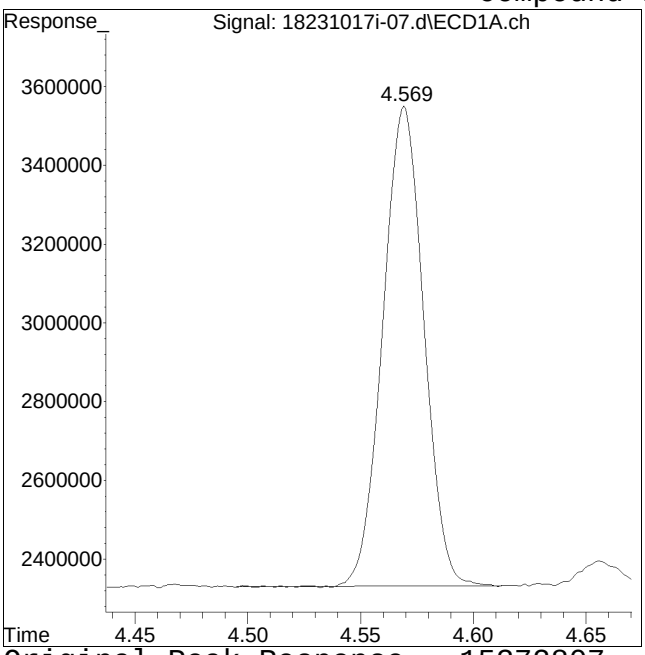
Manual Peak Response = 12779370 M4

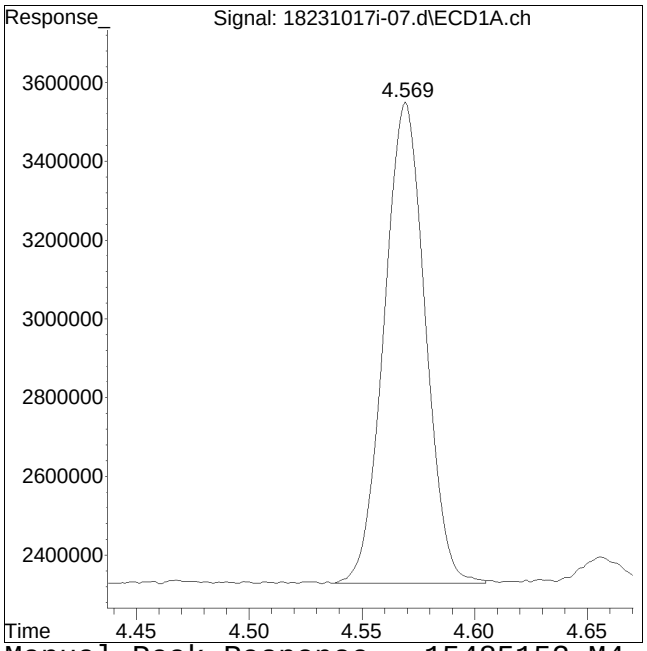
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #17: Dieldrin



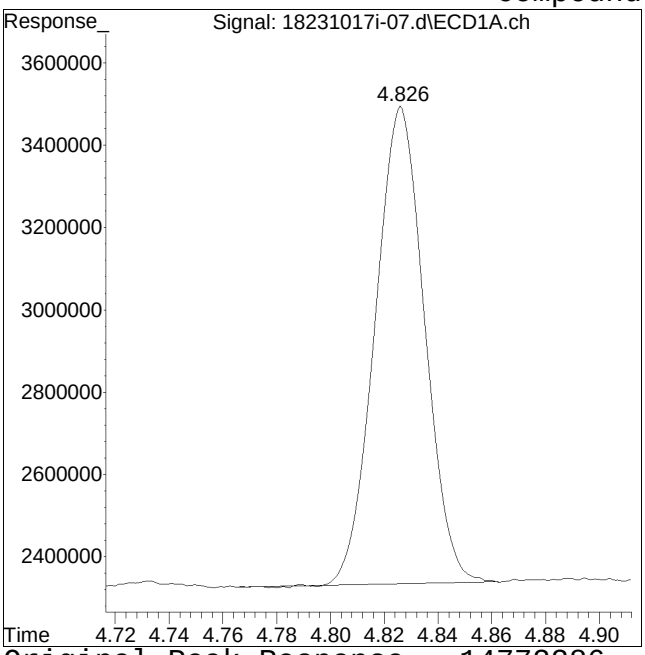


Original Peak Response = 15372807 Manual Peak Response = 15485152 M4
M4 = Poor automated baseline construction.

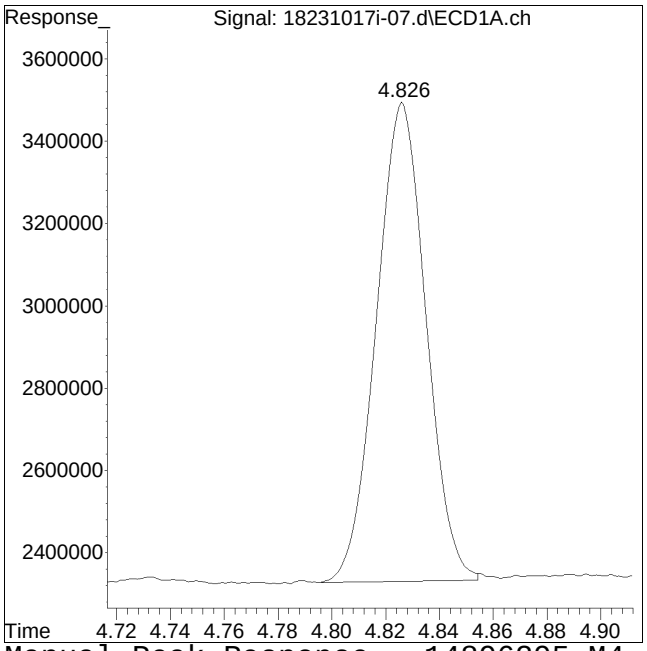
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #18: Endrin



Original Peak Response = 14772286



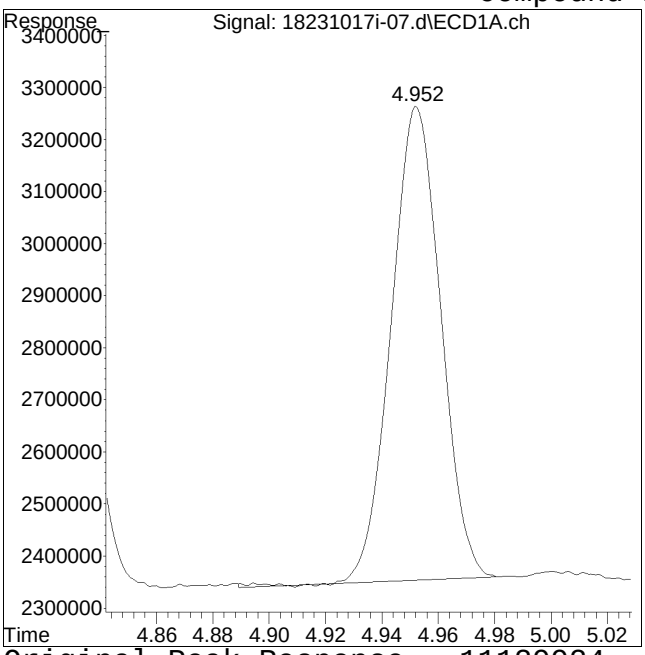
Manual Peak Response = 14896295 M4

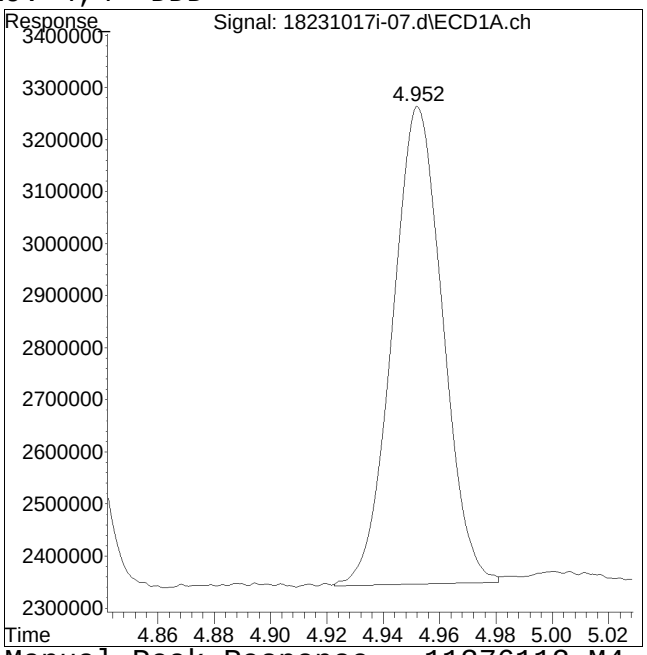
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #19: 4,4'-DDD



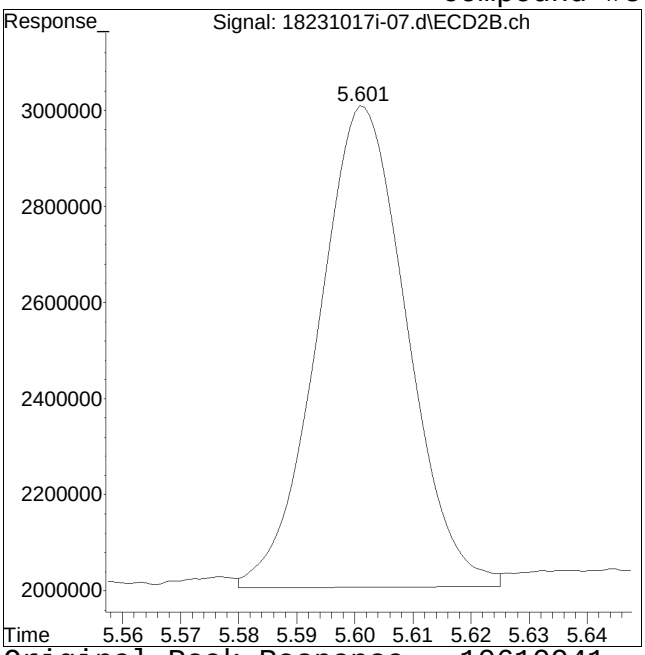


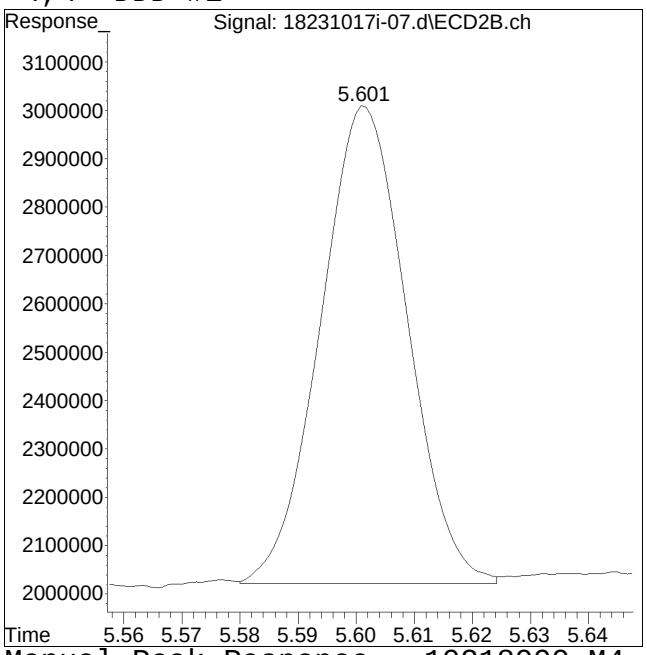
Original Peak Response = 11129924 Manual Peak Response = 11376112 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #57: 4,4'-DDD #2



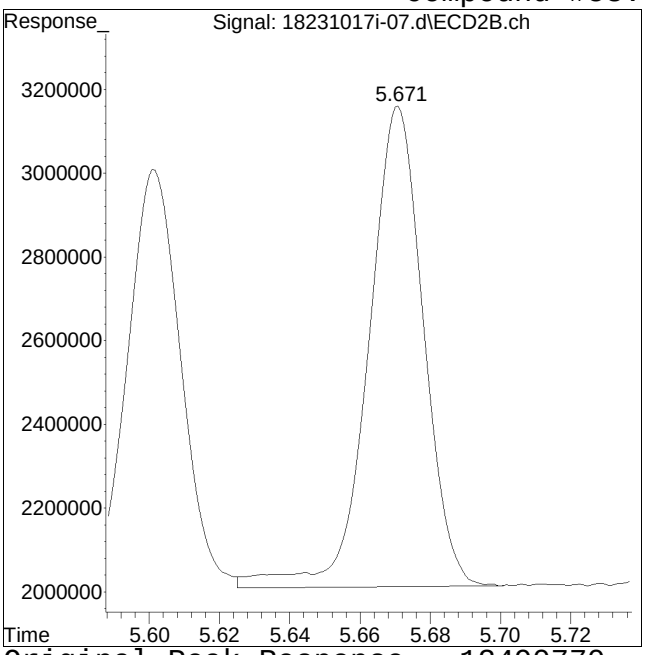


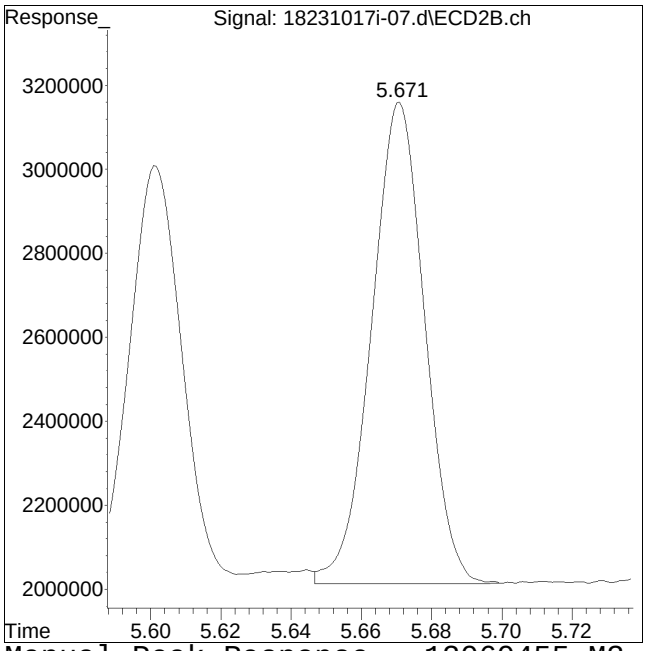
Original Peak Response = 10610941 Manual Peak Response = 10218999 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #58: Endosulfan II #2



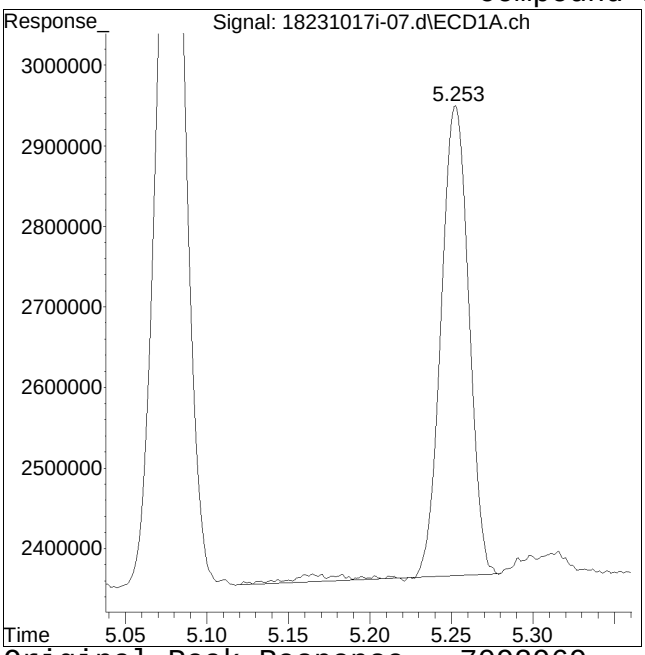


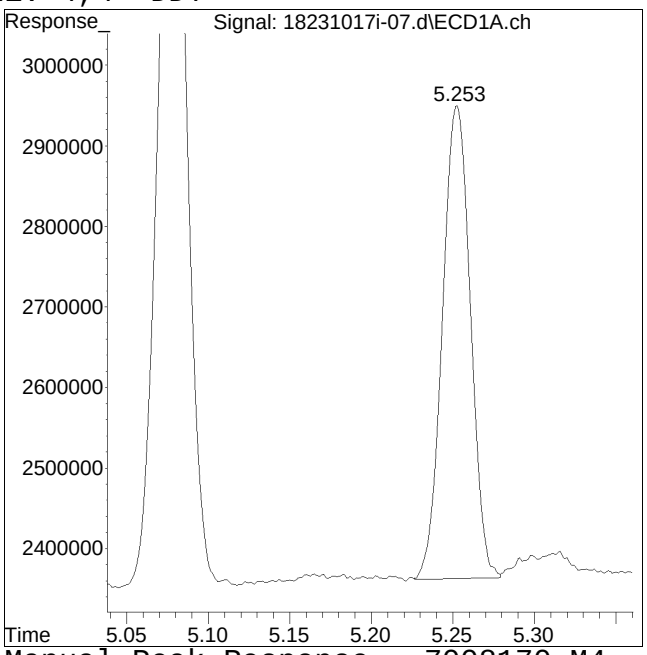
Original Peak Response = 12490770 Manual Peak Response = 12060455 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #21: 4,4'-DDT



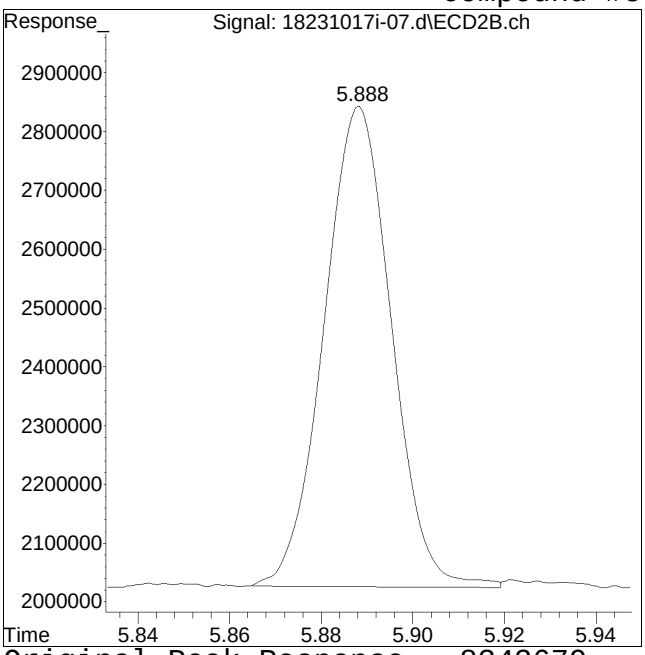


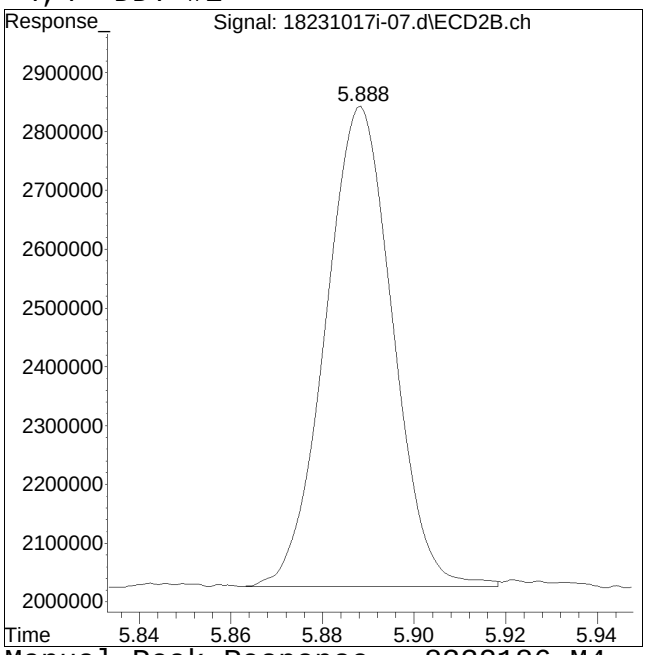
Original Peak Response = 7092969 Manual Peak Response = 7008170 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #59: 4,4'-DDT #2



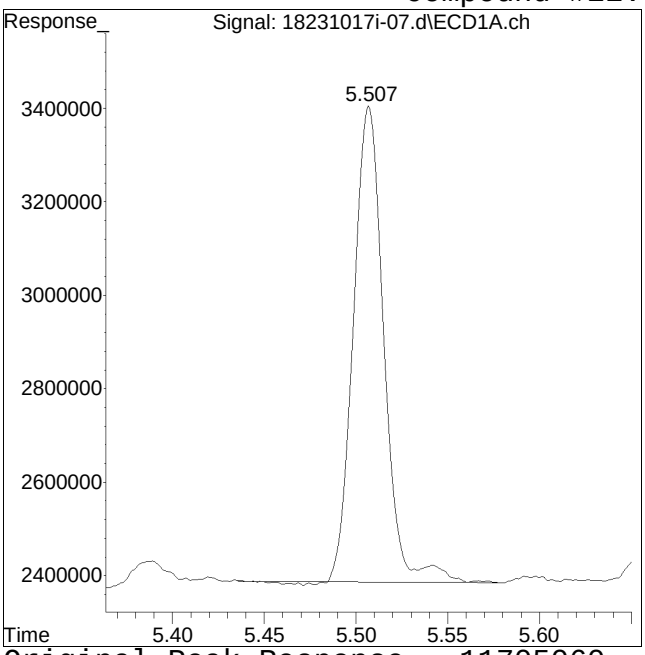


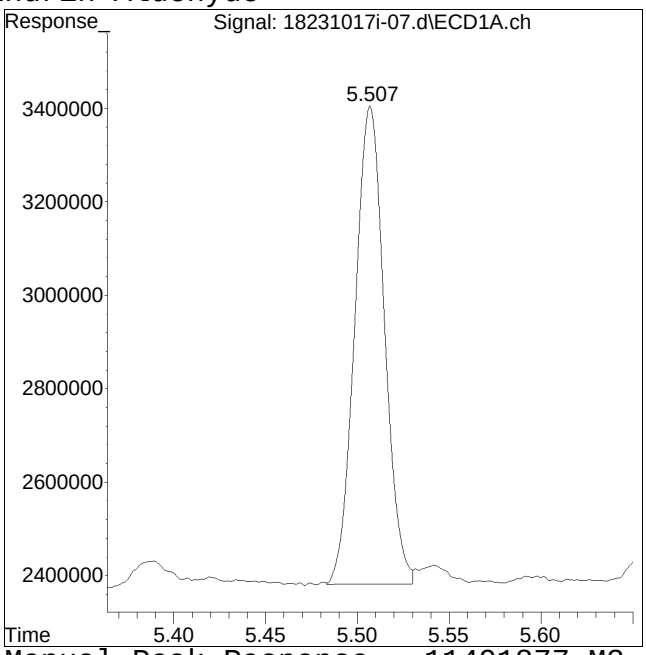
Original Peak Response = 8343679 Manual Peak Response = 8332186 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #22: Endrin Aldehyde



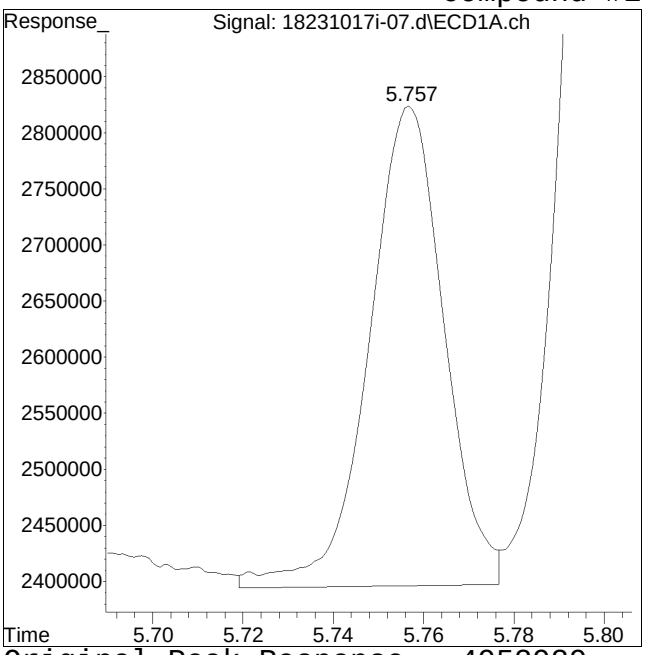


Original Peak Response = 11705060 Manual Peak Response = 11491877 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

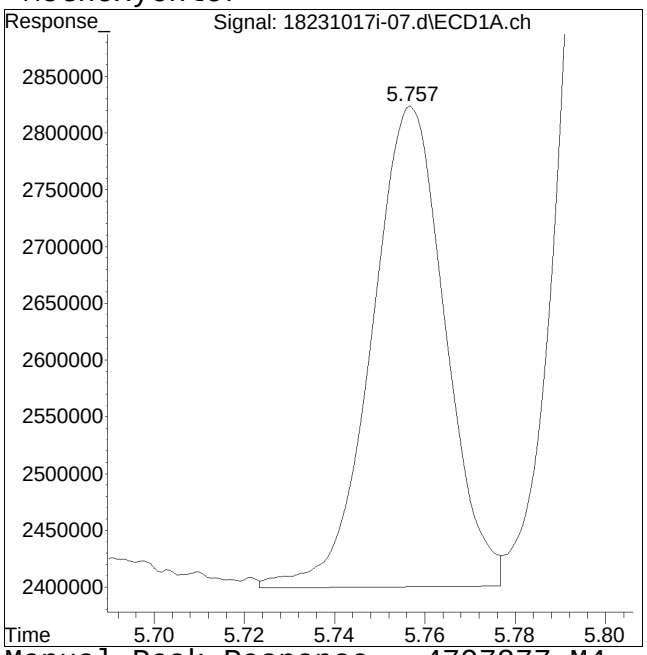
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #23: Methoxychlor



Original Peak Response = 4952929



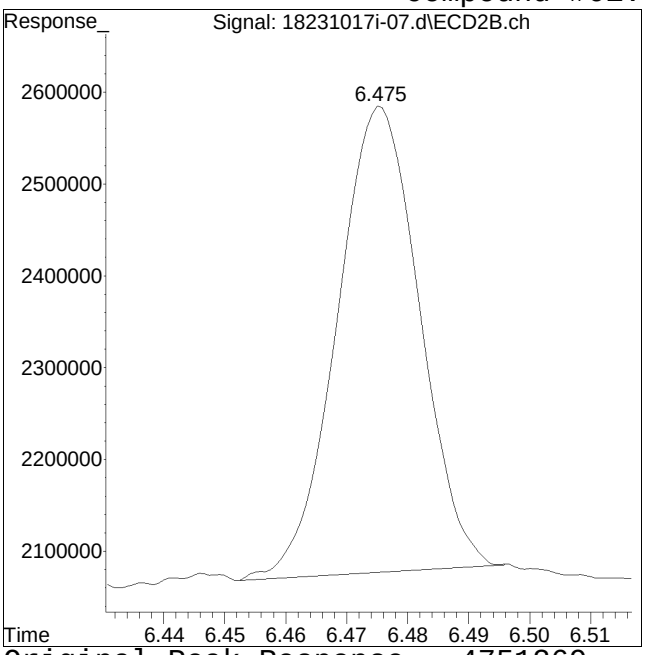
Manual Peak Response = 4797277 M4

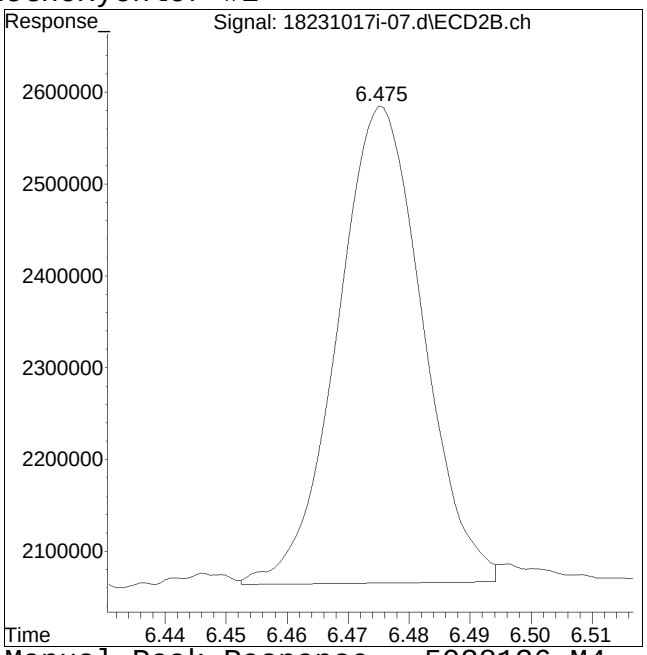
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #61: Methoxychlor #2



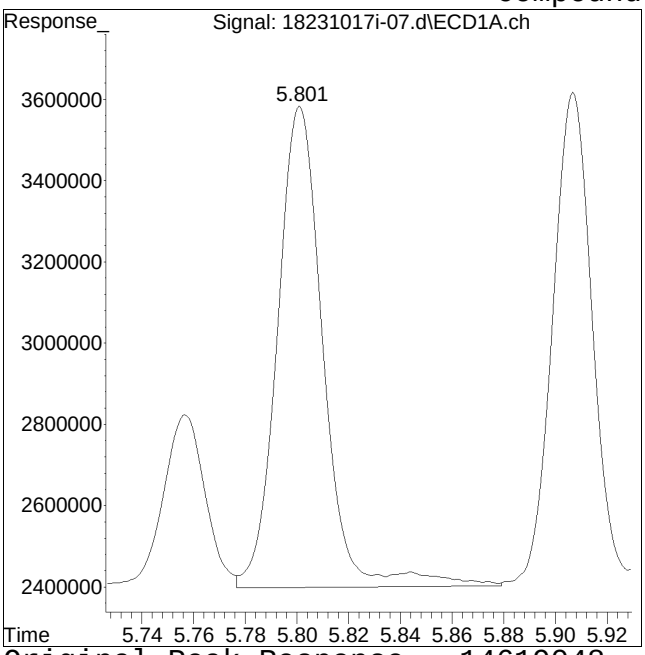


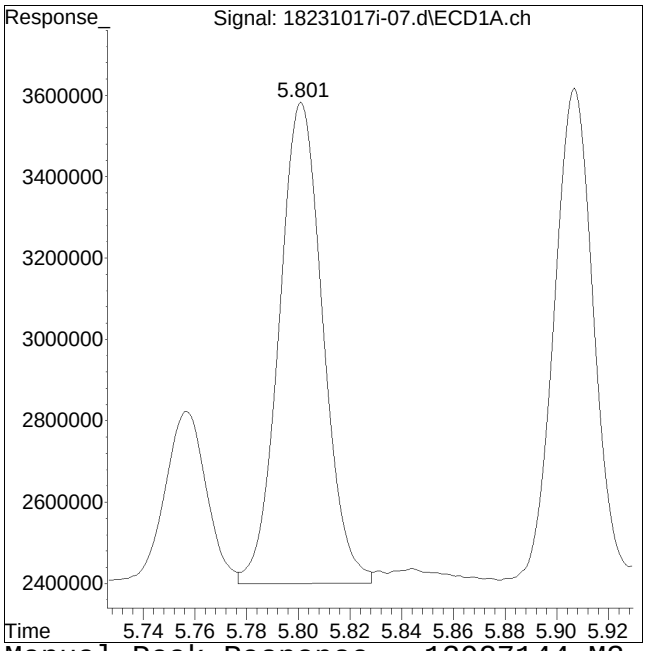
Original Peak Response = 4751269 Manual Peak Response = 5028136 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #24: Mirex



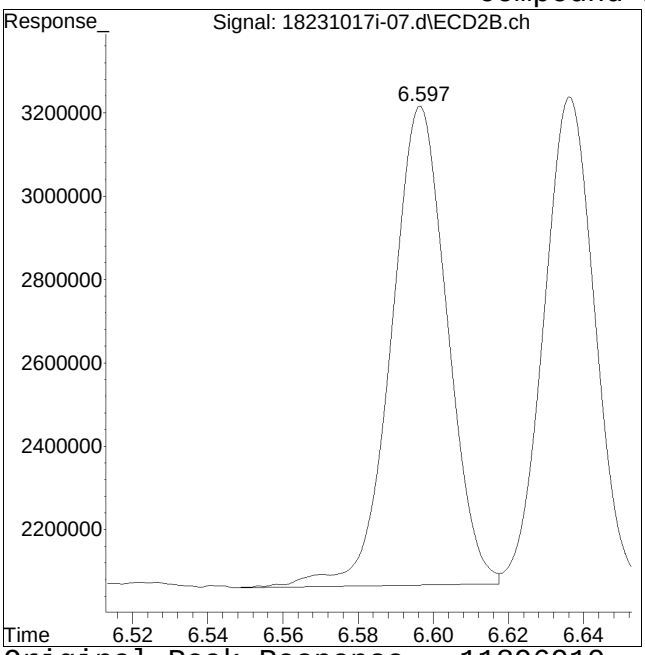


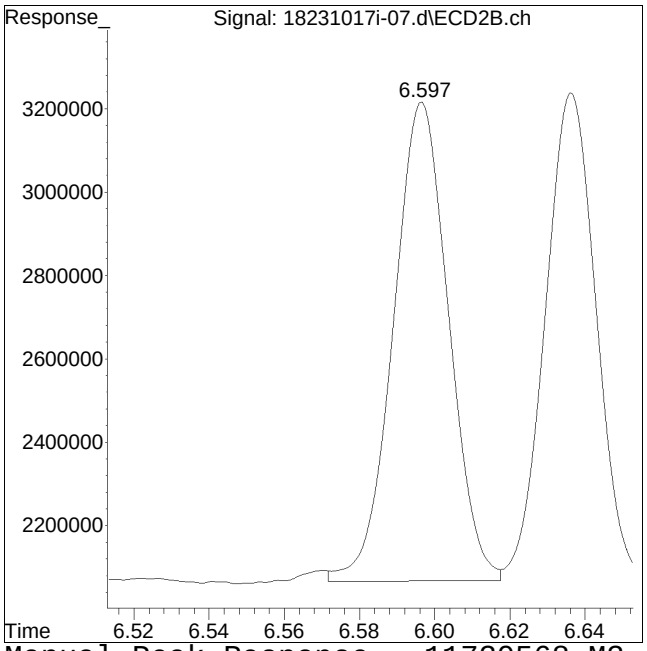
Original Peak Response = 14619048 Manual Peak Response = 13927144 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #62: Mirex #2



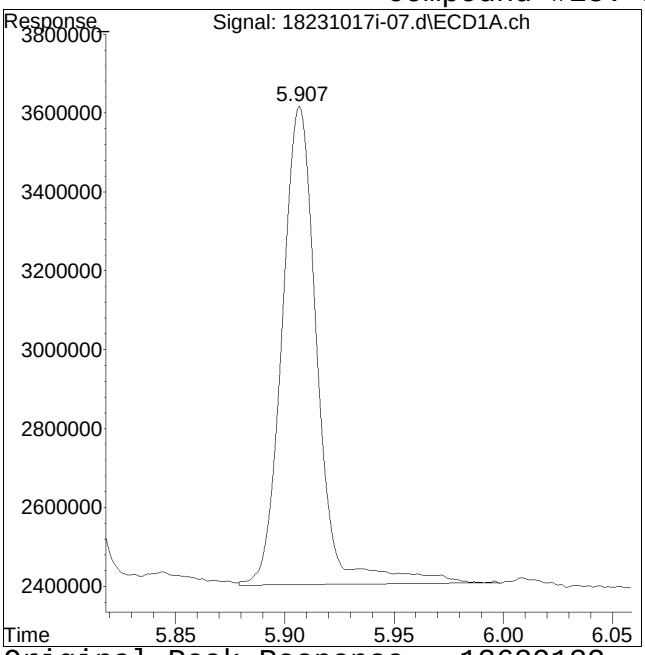


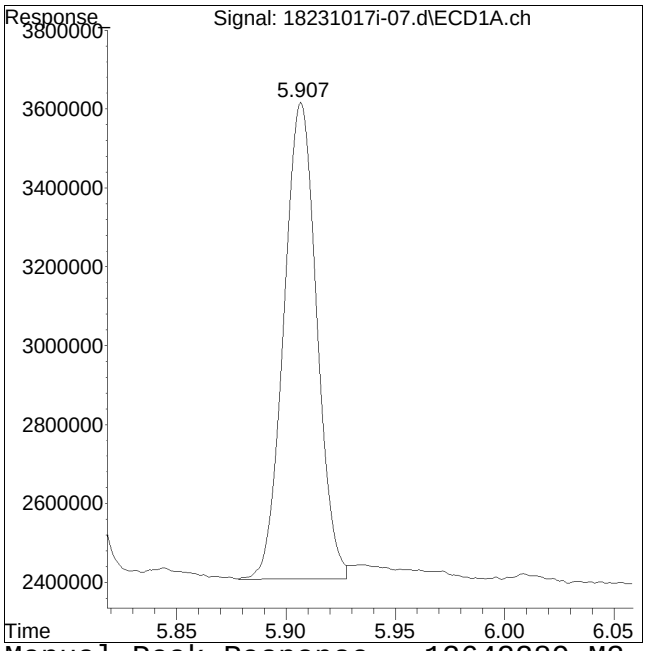
Original Peak Response = 11896910 Manual Peak Response = 11730568 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #25: Endosulfan Sulfate



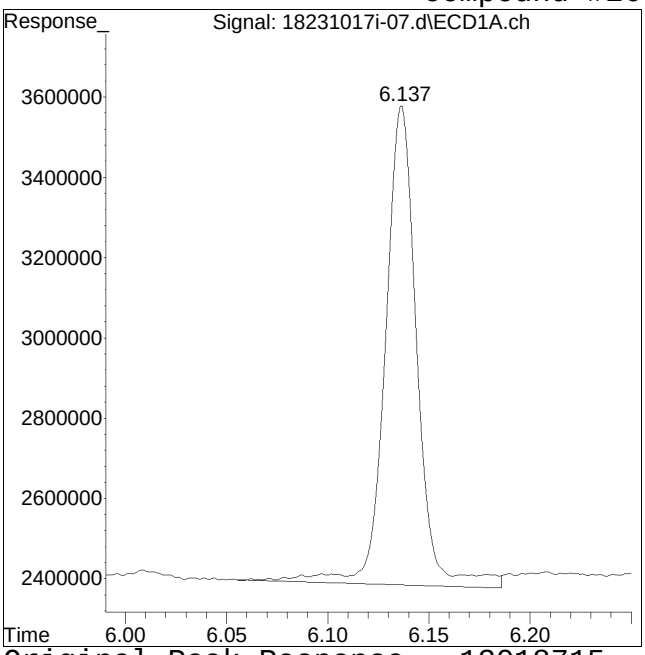


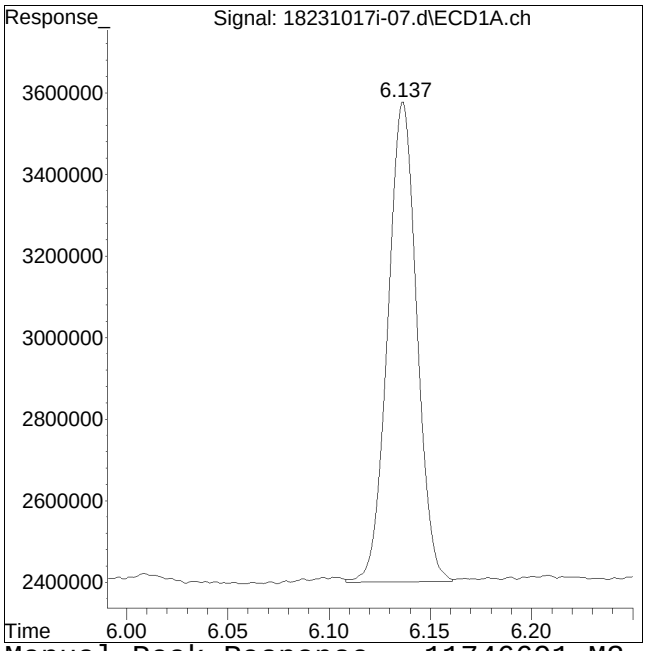
Original Peak Response = 13629132 Manual Peak Response = 12642289 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #26: Endrin Ketone



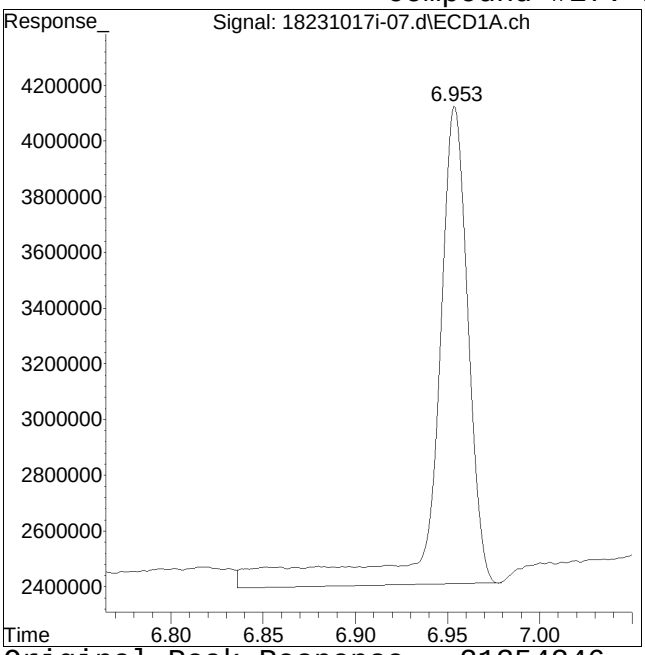


Original Peak Response = 13018715 Manual Peak Response = 11746691 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

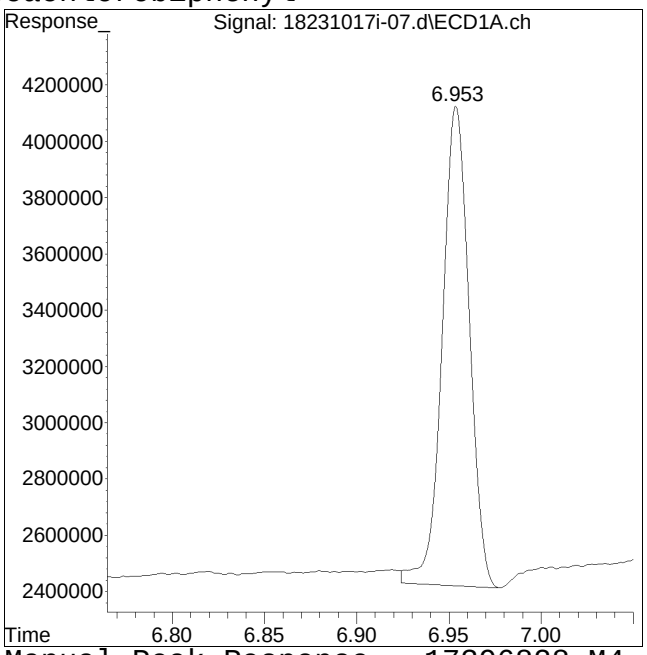
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-07.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:00 pm Instrument : Pest 18
Sample : il5pest,42e,,pp 11226 L0.0Quant Date : 10/19/2023 9:14 am

Compound #27: Decachlorobiphenyl



Original Peak Response = 21354246



Manual Peak Response = 17396828 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:11 pm
Operator : PEST18:ejl
Sample : il7pest,42e,,pp 11225 L0.01
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:14:41 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:10:39 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.721	1.770	81446415	71771608	25.000M3	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.155	2.319	34014741	30197301	10.369M4	10.214
	Spiked Amount 50.000	Range 30 - 150		Recovery =		20.74%#	20.43%#
27) s	Decachlorobi	6.953	7.525	36704296	28072817	11.823M4	11.414M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		23.65%#	22.83%#
	Target Compounds						
3)	Hexachlorobe	2.397	2.657	38693265	36010250	11.142M3	11.290M4
4)	alpha-BHC	2.510	2.762	42312720	37830092	9.409M4	9.337
5)	gamma-BHC (l	2.730	3.053	39199132	35312495	9.609M3	9.590
6)	beta-BHC	2.798	3.128	19939171	17918352	10.912	10.817
7)	delta-BHC	2.934	3.396	39590792	35258623	9.451M3	9.356
8)	Heptachlor	3.096	3.448	38115748	34557445	10.171	9.923
9)	Aldrin	3.345	3.764	36252444	32967228	9.597M4	9.522
10)	Alachlor	3.484	3.666	6770551	5435031	11.406	11.356
11)	Chlorpyrifos	3.580	4.018	21174394	19254252	12.292M4	11.896
12)	Heptachlor E	3.907	4.379	36223032	33275637	10.248M3	10.244M4
13)	gamma-Chlord	4.034	4.599	38548338	29900481	11.897M4	10.130
14)	alpha-Chlord	4.170	4.773	37562627	33711402	10.336M4	10.259
15)	4,4'-DDE	4.277	4.994	35487028	32780648	9.454	9.606M3
16)	Endosulfan I	4.306	4.834	34317926	30982368	10.302	10.065M4
17)	Dieldrin	4.569	5.147	36774778	30978466	10.266M4	9.649
18)	Endrin	4.826	5.459	36499284	31891219	9.687	9.876
19)	4,4'-DDD	4.952	5.601	28401207	25873134	9.368	9.475M4
20)	Endosulfan I	5.078	5.671	32262262	29087561	9.986	10.207M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:11 pm
Operator : PEST18:ejl
Sample : il7pest,42e,,pp 11225 L0.01
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:14:41 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:10:39 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21)	4,4'-DDT	5.252	5.888	21183846	21259139	7.331	8.081M3
22)	Endrin Aldeh	5.506	5.981	28031847	27187481	10.217	11.258
23)	Methoxychlor	5.756	6.476	12499466	12631462	8.212M4	9.049
24)	Mirex	5.800	6.596	31419702	26961188	11.621M3	12.017M3
25)	Endosulfan S	5.906	6.218	30609497	27545738	10.100M3	10.610
26)	Endrin Keton	6.136	6.637	29253766	27017300	9.170	9.530M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

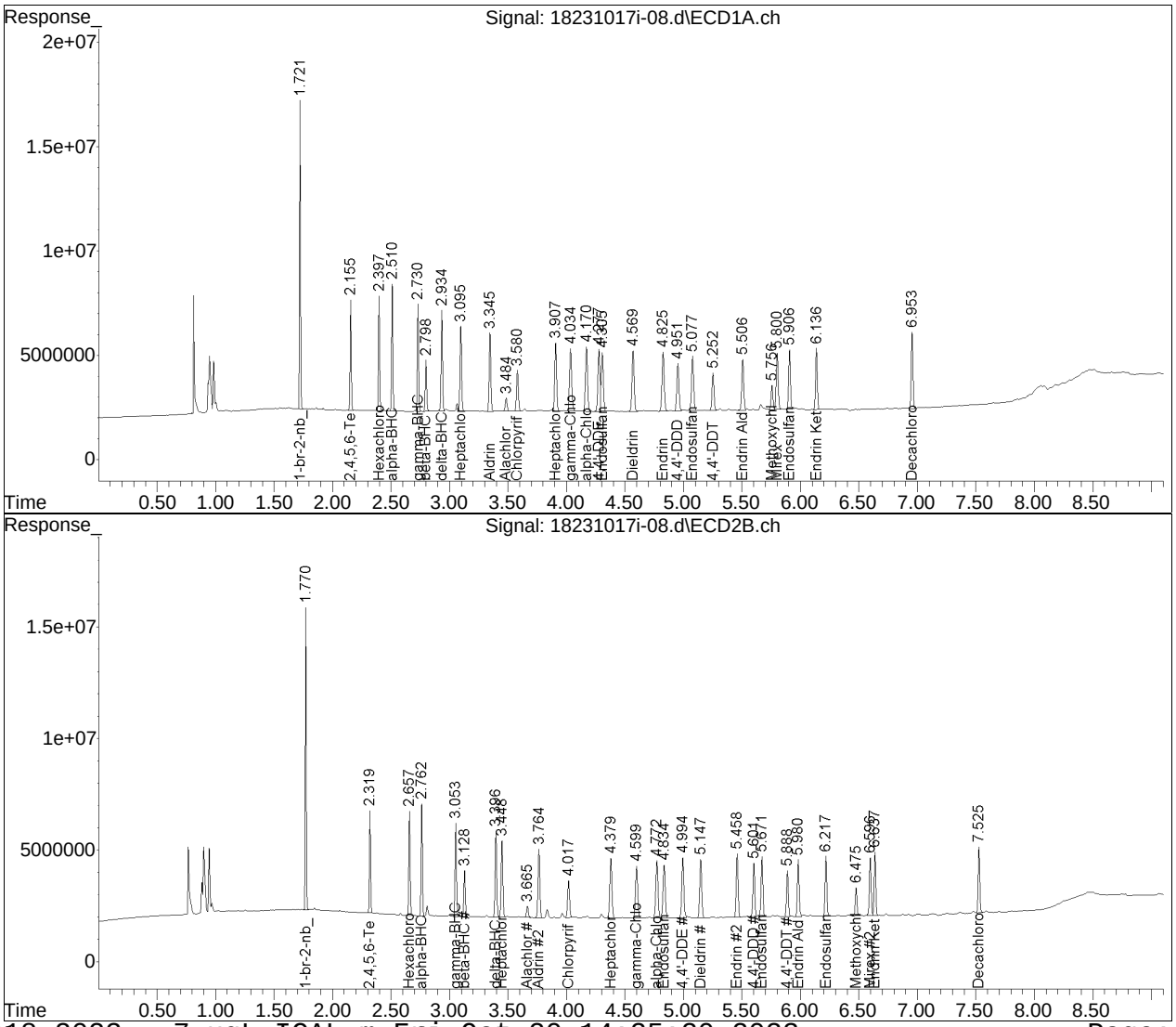
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:11 pm
Operator : PEST18:ejl
Sample : il7pest,42e,,pp 11225 L0.01
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:14:41 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:10:39 2023
Response via : Initial Calibration
Integrator: ChemStation

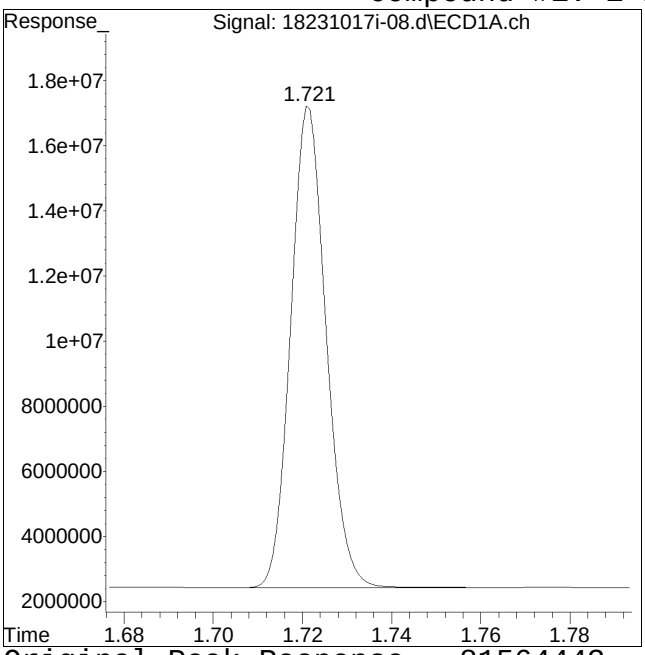
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

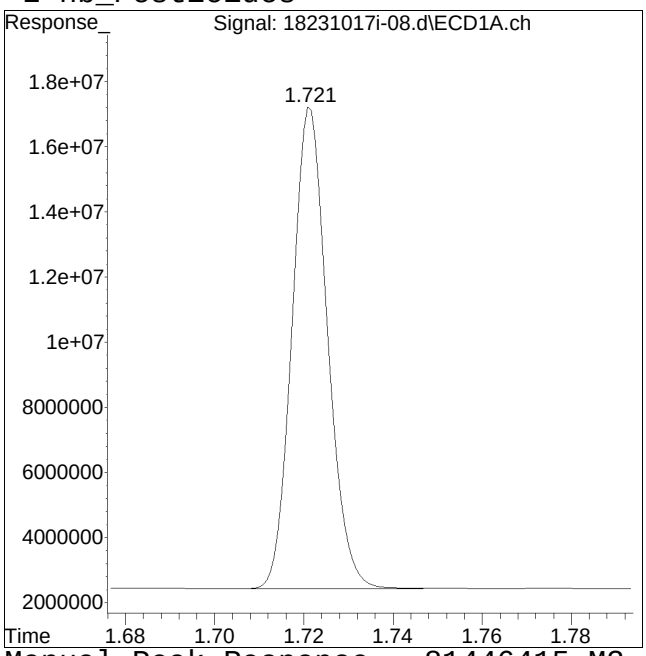


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #1: 1-br-2-nb_Pesticides



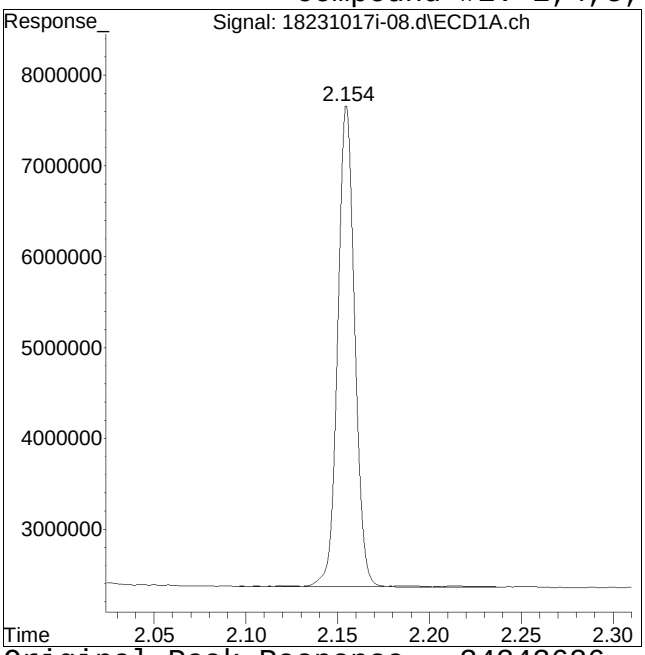


Original Peak Response = 81564443 Manual Peak Response = 81446415 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

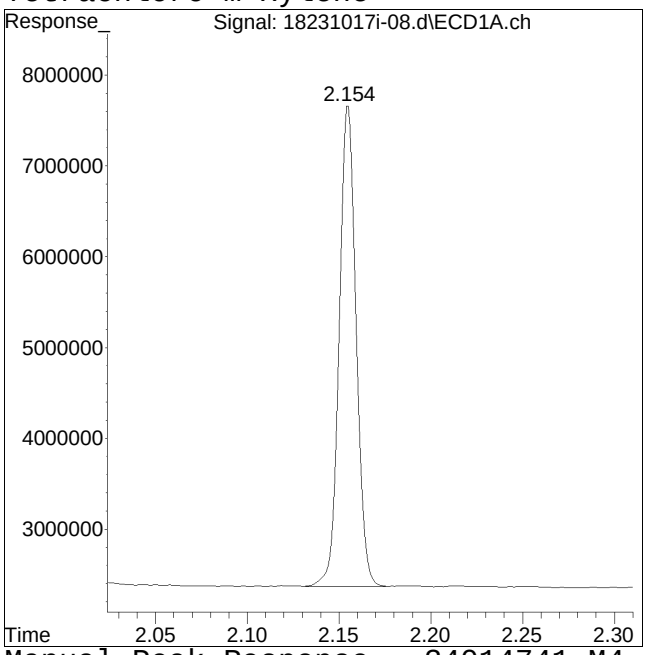
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 34343626



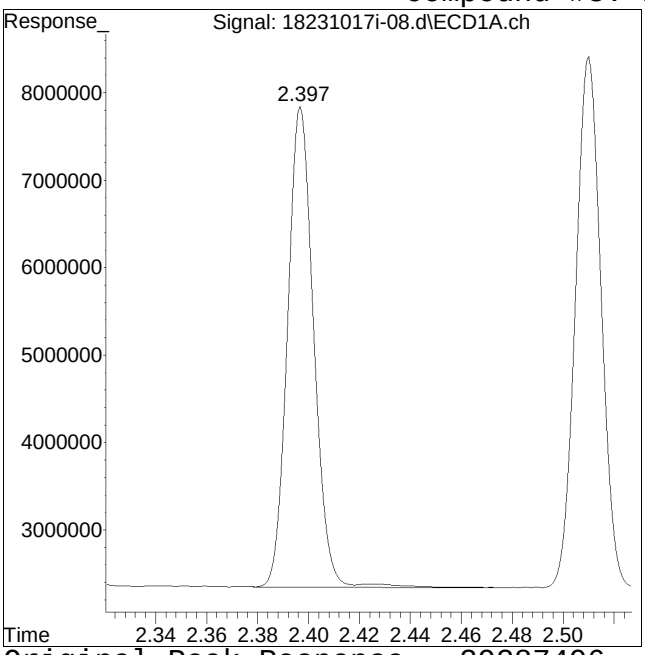
Manual Peak Response = 34014741 M4

M4 = Poor automated baseline construction.

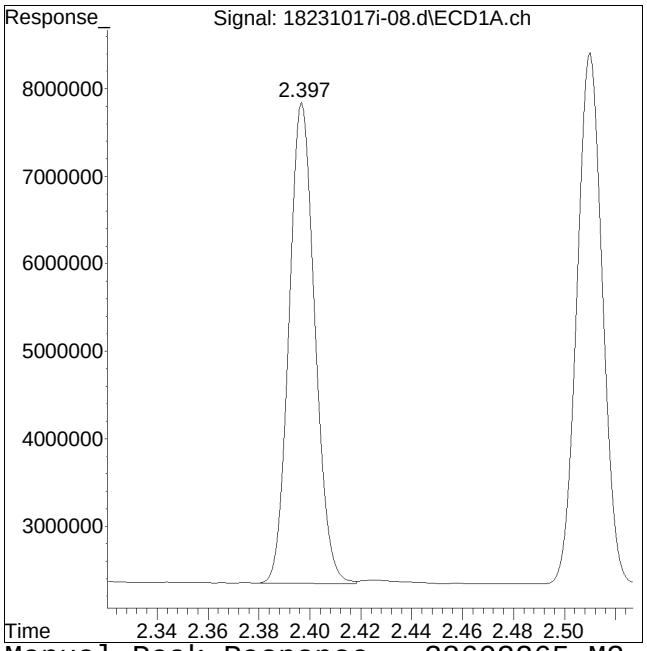
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #3: Hexachlorobenzene



Original Peak Response = 39287496



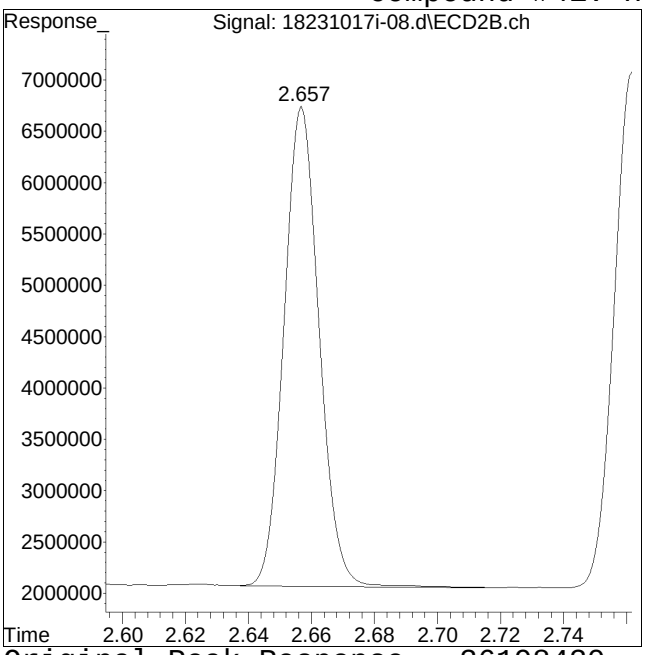
Manual Peak Response = 38693265 M3

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

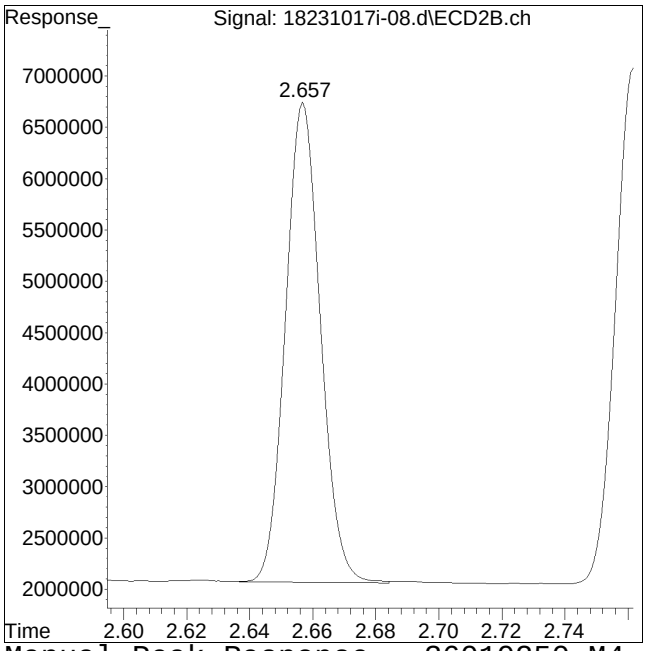
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 36198430



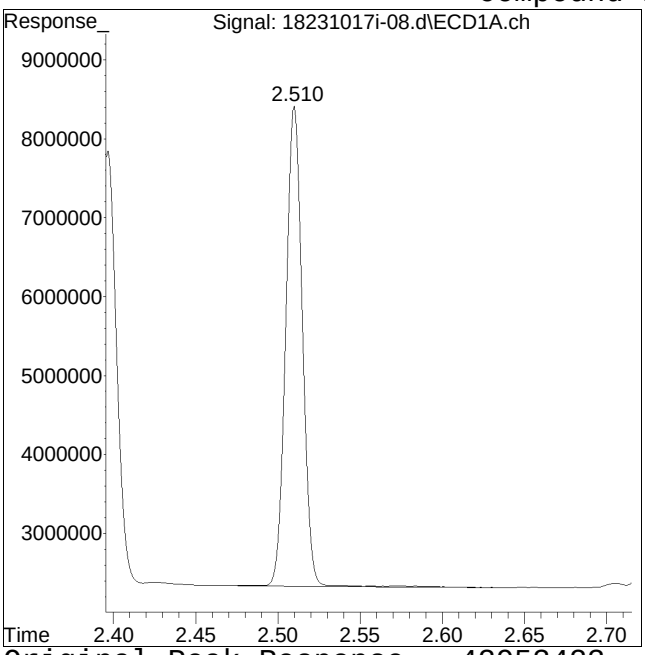
Manual Peak Response = 36010250 M4

M4 = Poor automated baseline construction.

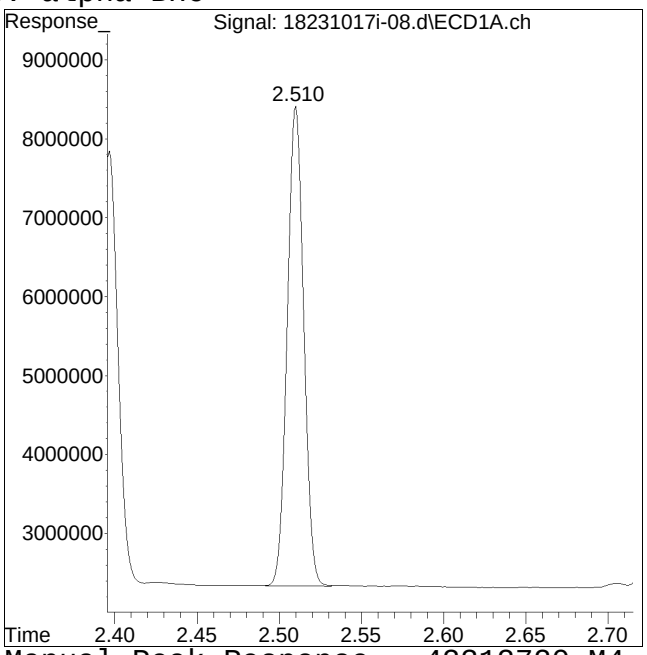
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #4: alpha-BHC



Original Peak Response = 42953423



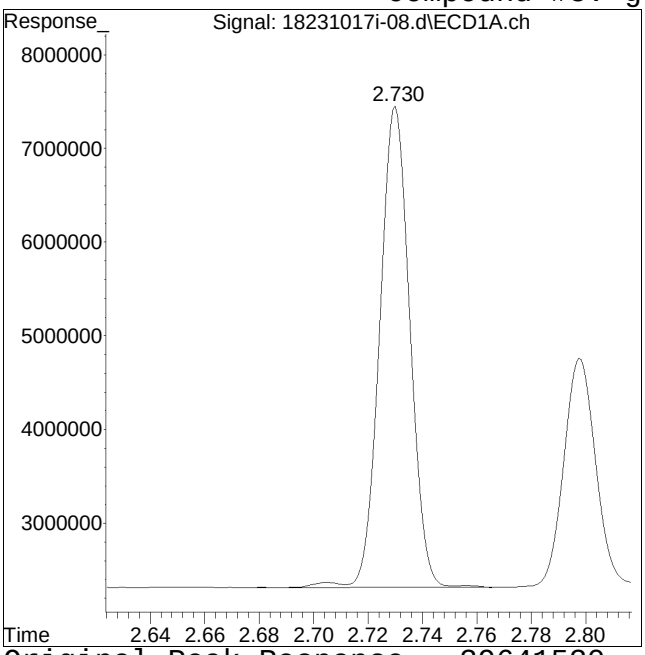
Manual Peak Response = 42312720 M4

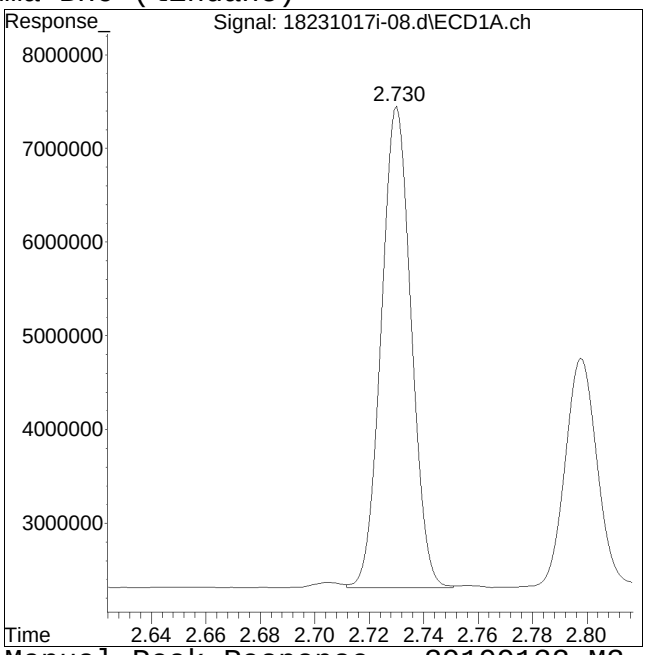
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #5: gamma-BHC (lindane)



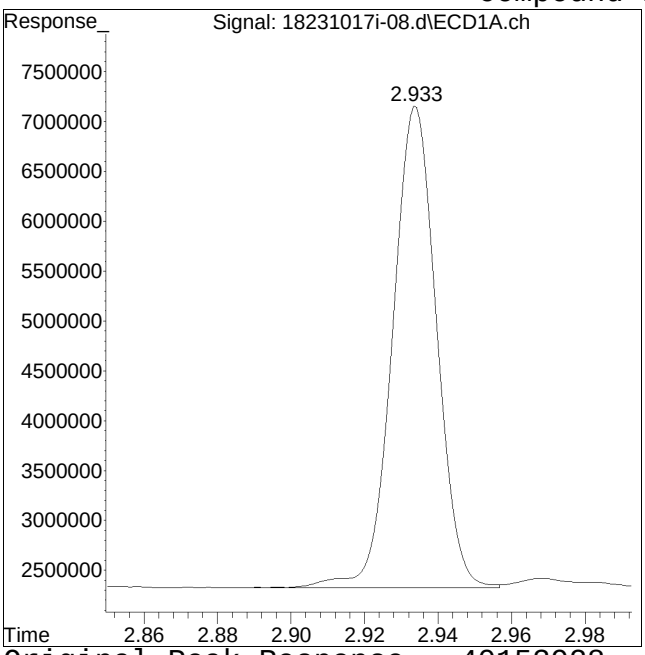


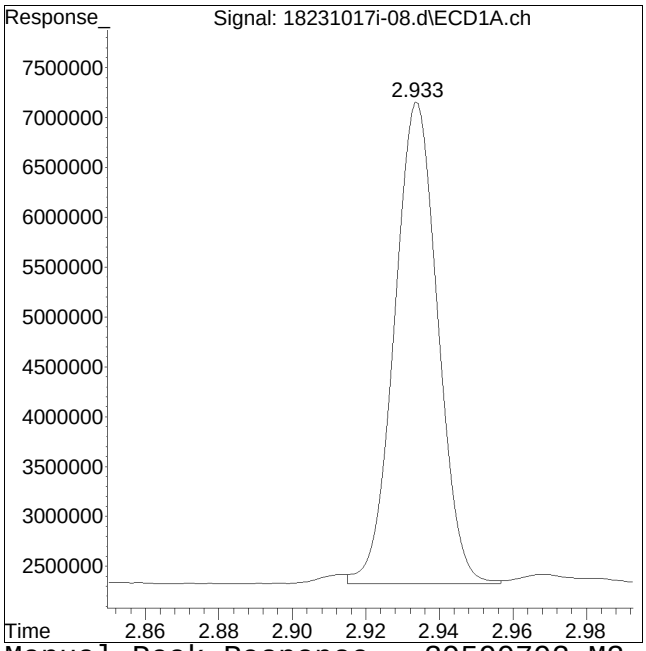
Original Peak Response = 39641530 Manual Peak Response = 39199132 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #7: delta-BHC



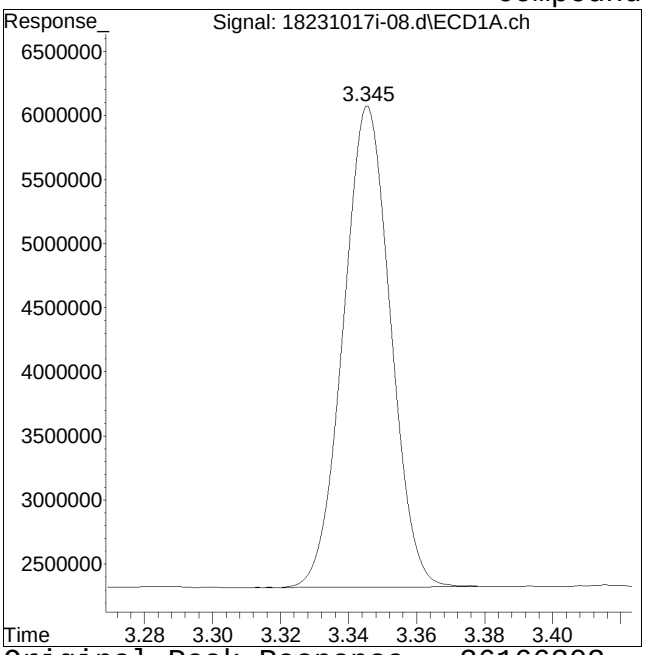


Original Peak Response = 40153928 Manual Peak Response = 39590792 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

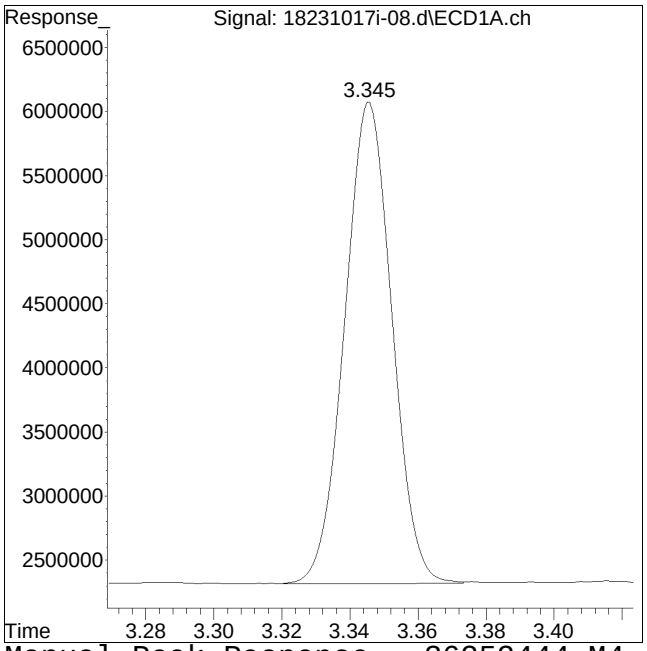
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #9: Aldrin



Original Peak Response = 36166303



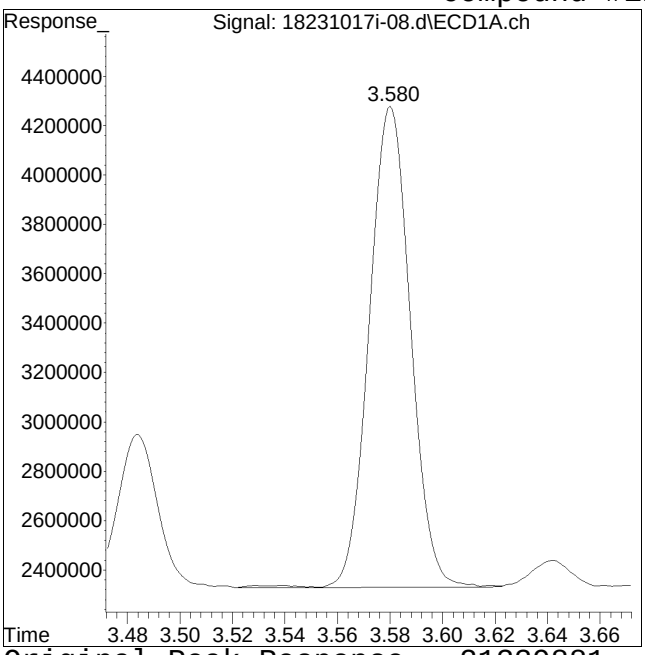
Manual Peak Response = 36252444 M4

M4 = Poor automated baseline construction.

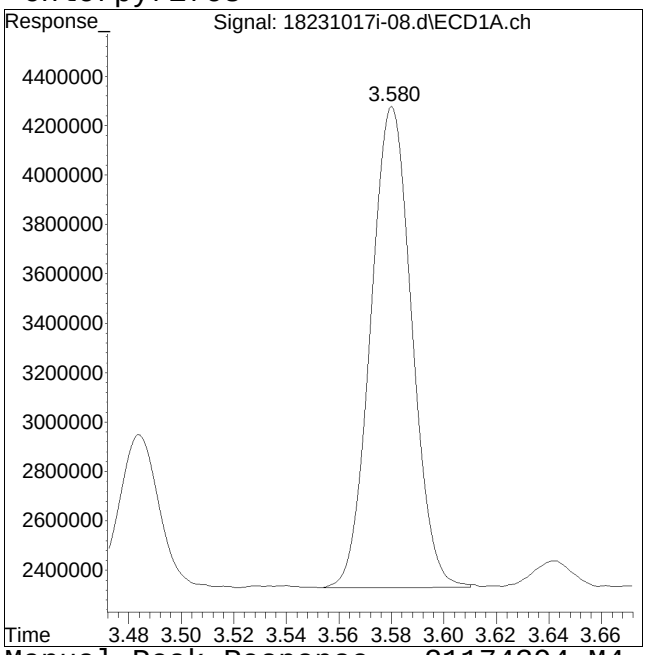
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #11: Chlorpyrifos



Original Peak Response = 21339881



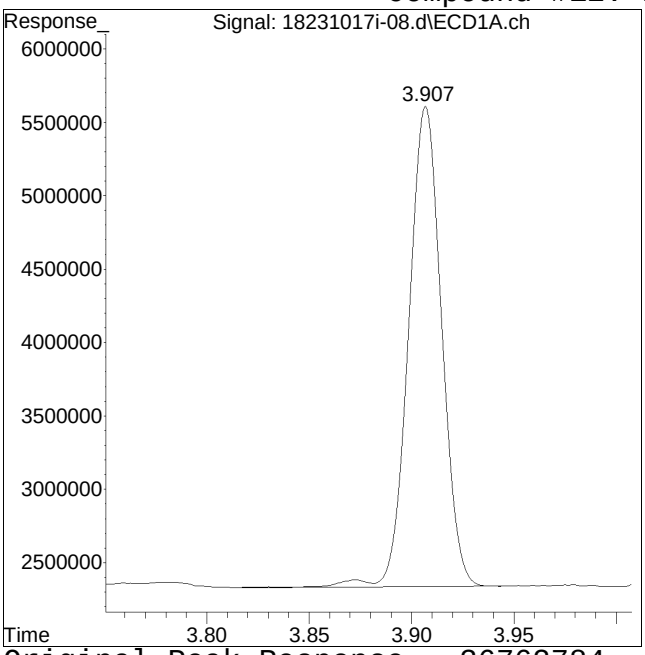
Manual Peak Response = 21174394 M4

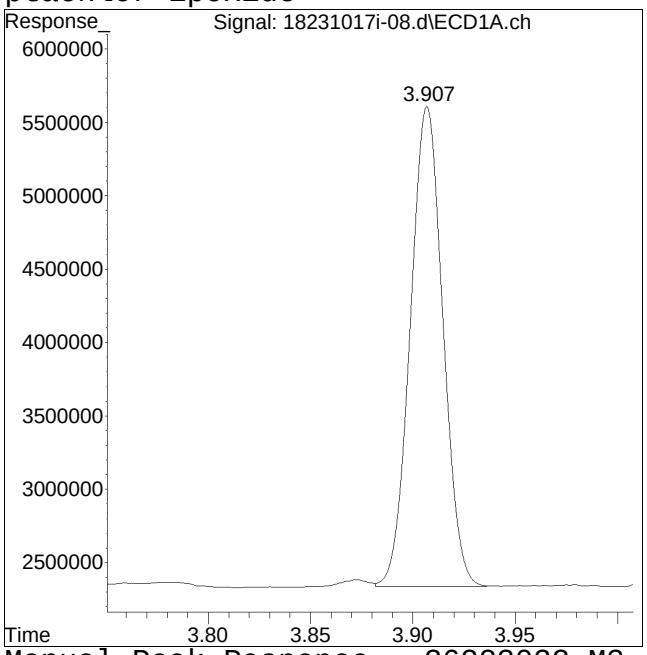
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #12: Heptachlor Epoxide



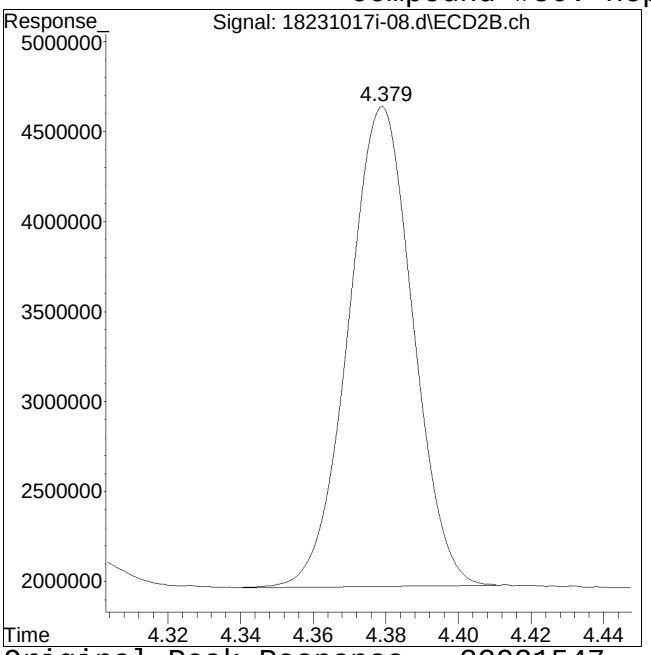


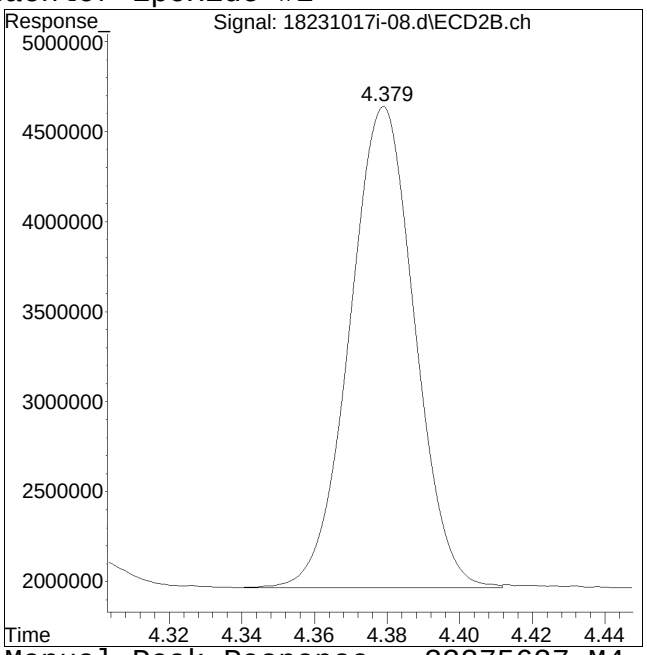
Original Peak Response = 36762784 Manual Peak Response = 36223032 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #50: Heptachlor Epoxide #2



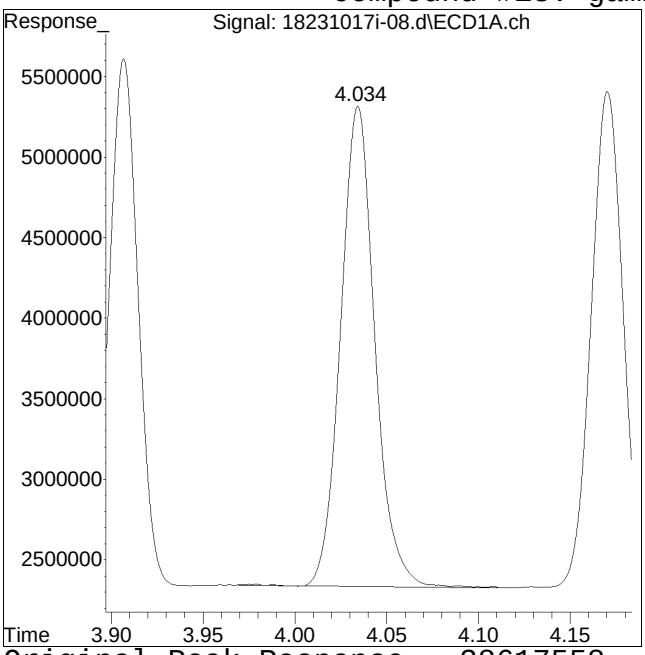


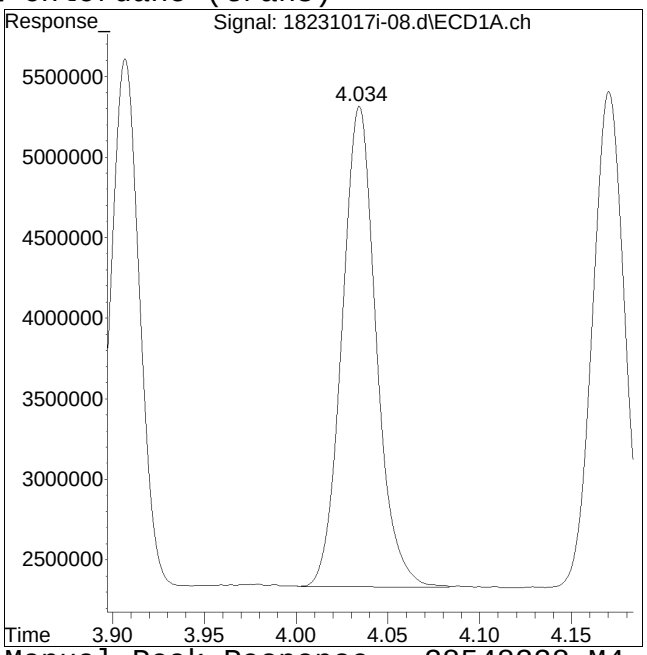
Original Peak Response = 32921547 Manual Peak Response = 33275637 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #13: gamma-Chlordane (trans)



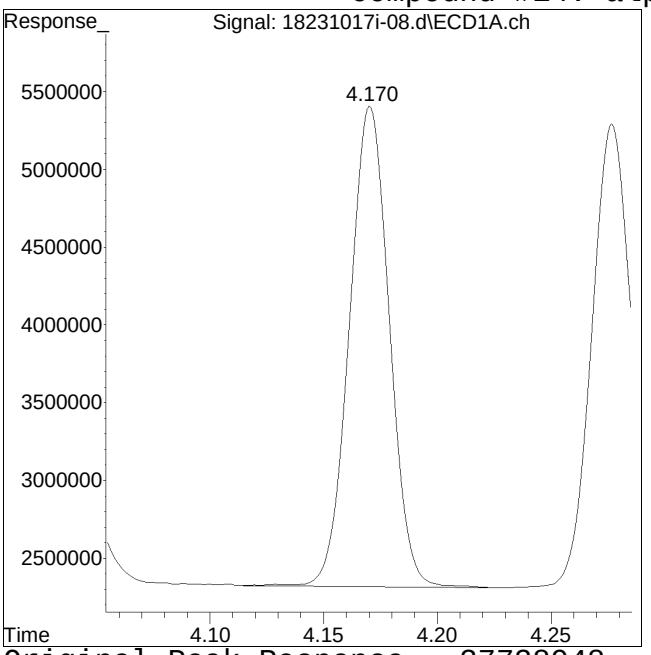


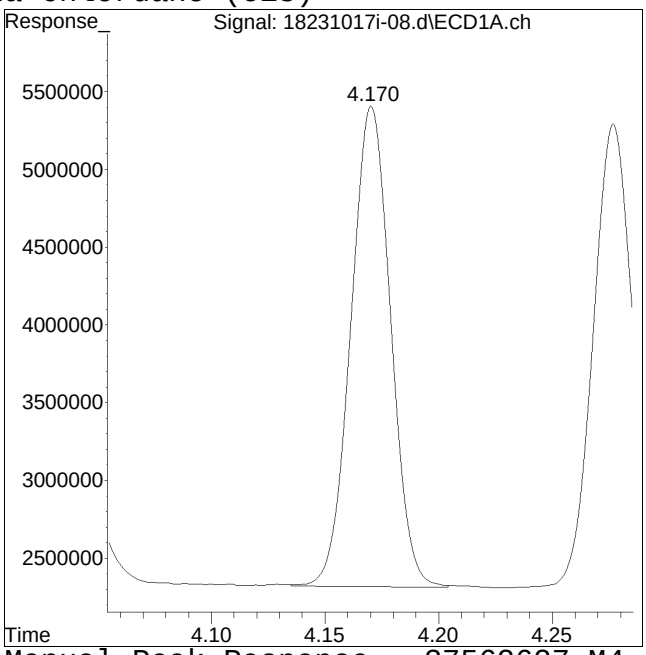
Original Peak Response = 38617558 Manual Peak Response = 38548338 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #14: alpha-Chlordane (cis)



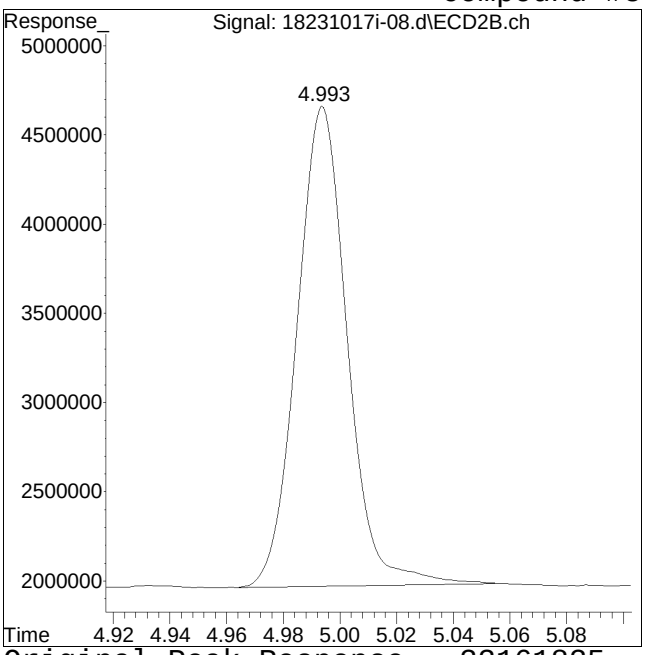


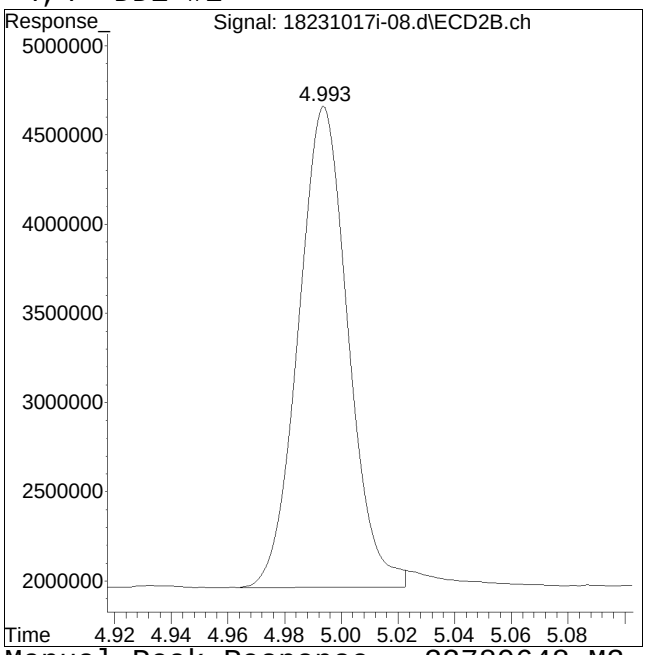
Original Peak Response = 37738948 Manual Peak Response = 37562627 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #53: 4,4'-DDE #2



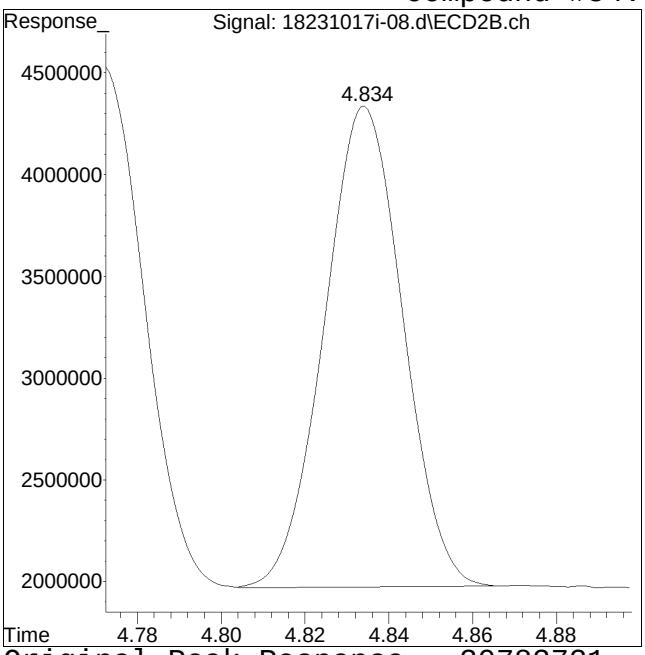


Original Peak Response = 33161835 Manual Peak Response = 32780648 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

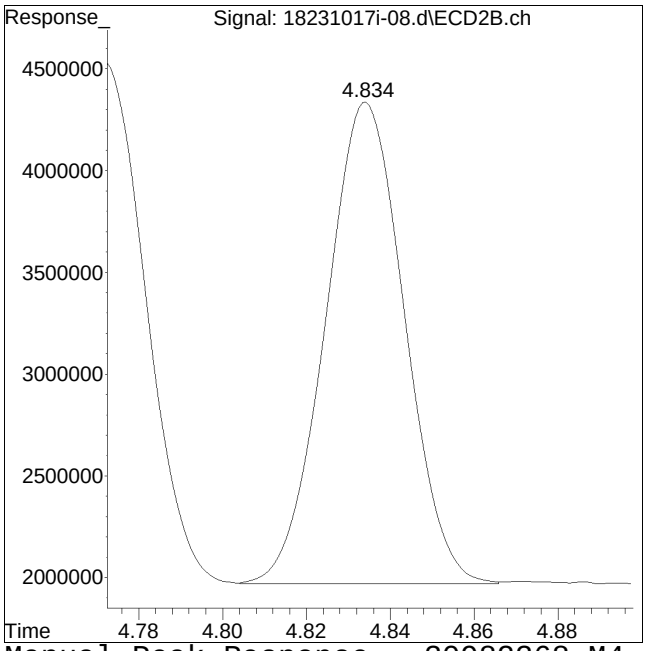
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #54: Endosulfan I #2



Original Peak Response = 30783731



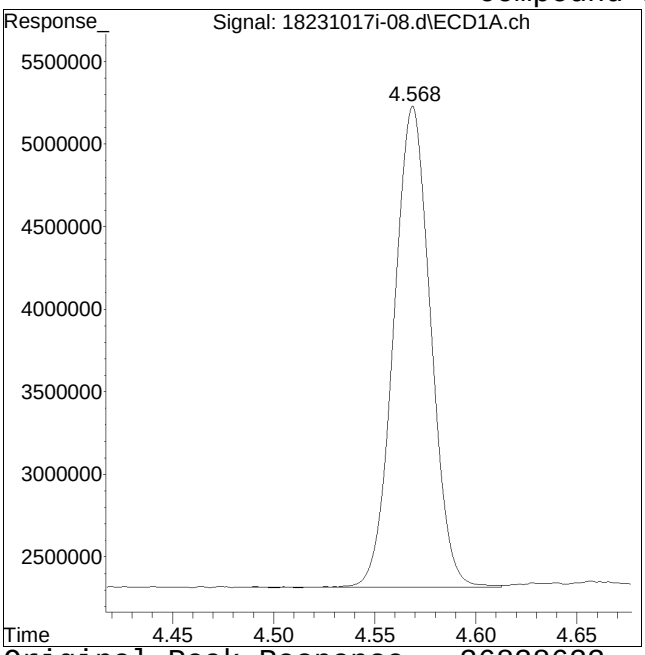
Manual Peak Response = 30982368 M4

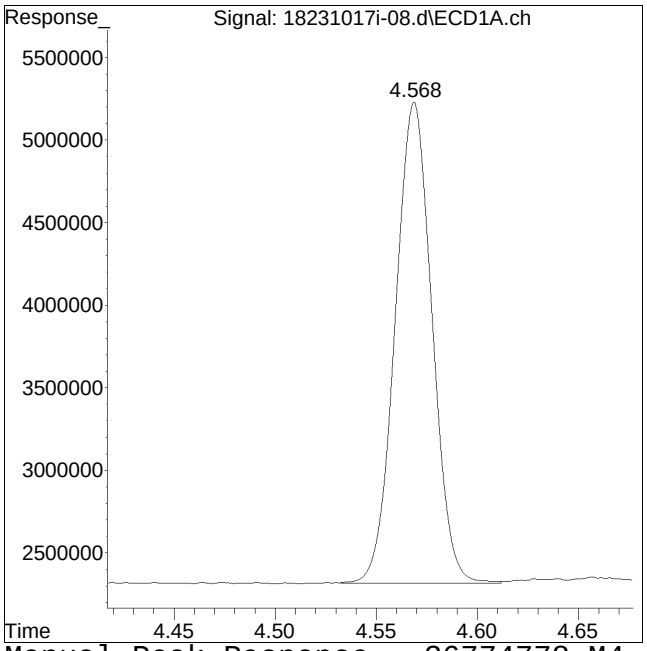
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #17: Dieldrin



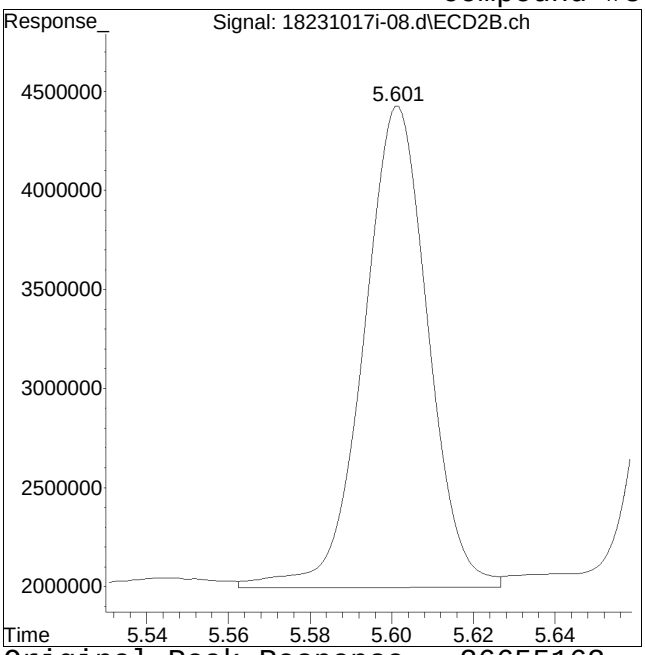


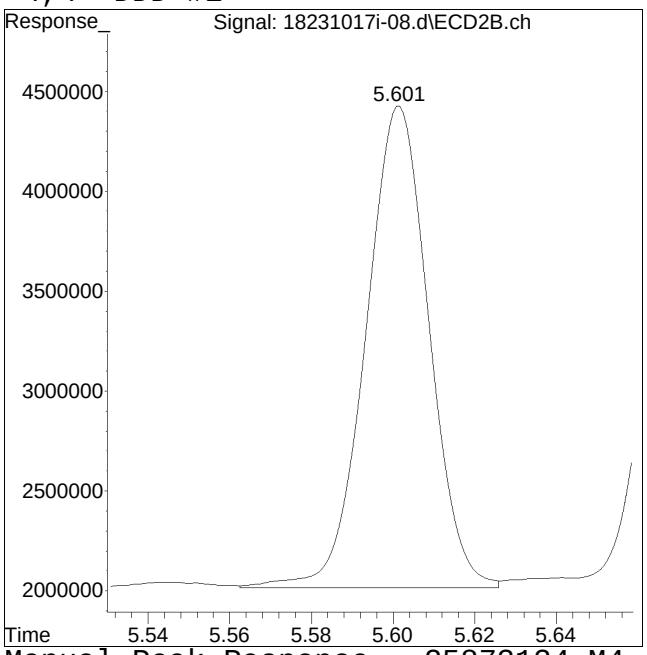
Original Peak Response = 36838633 Manual Peak Response = 36774778 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #57: 4,4'-DDD #2



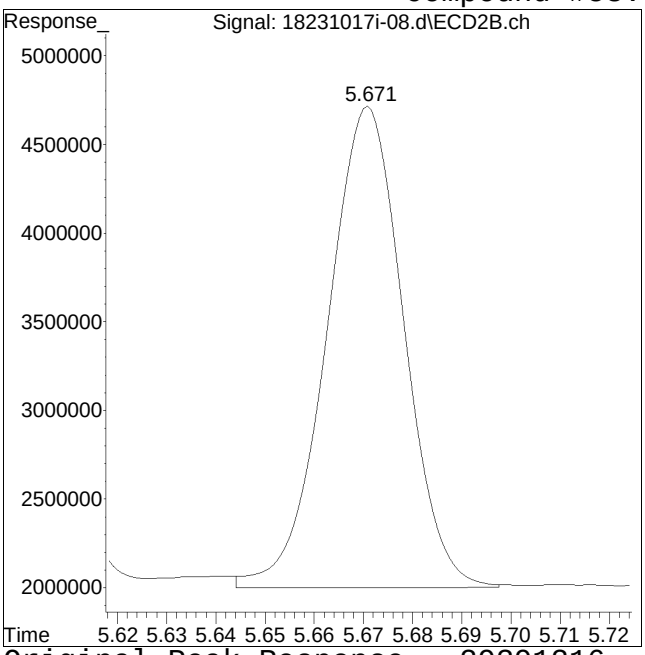


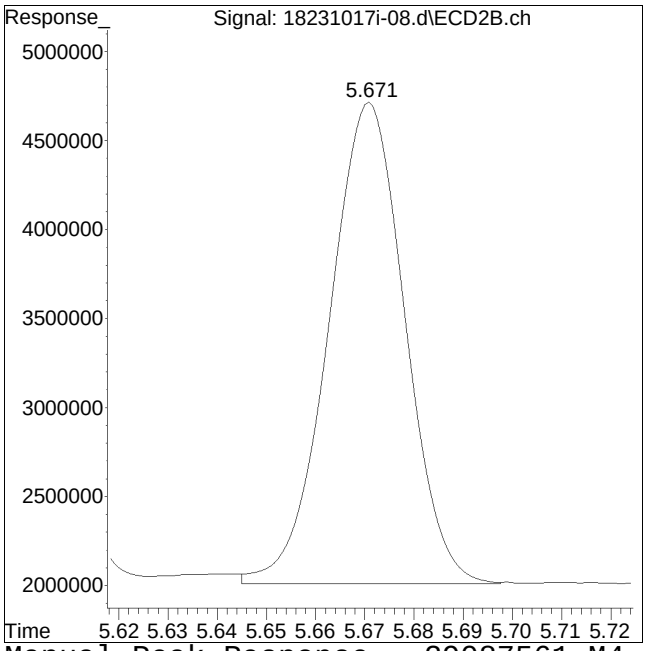
Original Peak Response = 26655162 Manual Peak Response = 25873134 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #58: Endosulfan II #2



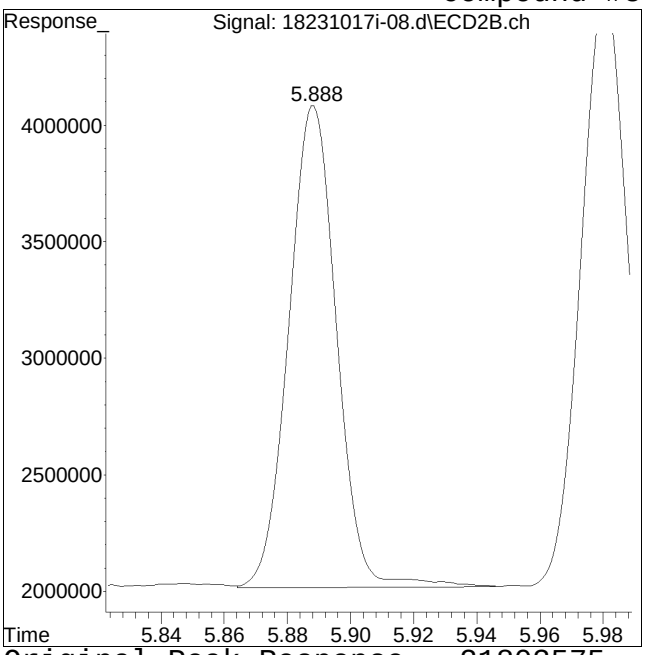


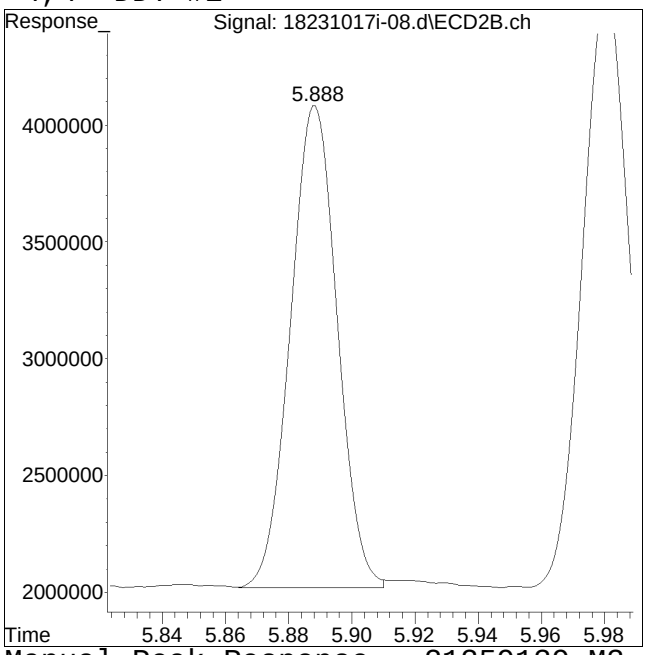
Original Peak Response = 29391216 Manual Peak Response = 29087561 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #59: 4,4'-DDT #2



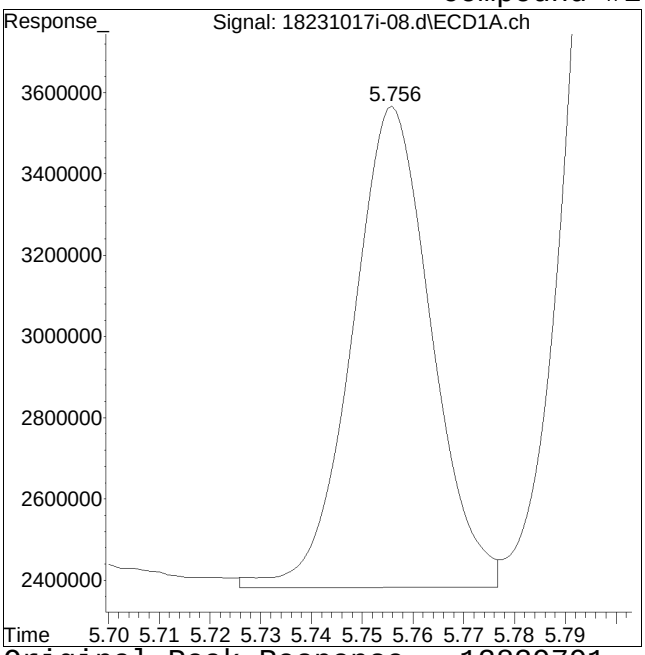


Original Peak Response = 21803575 Manual Peak Response = 21259139 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

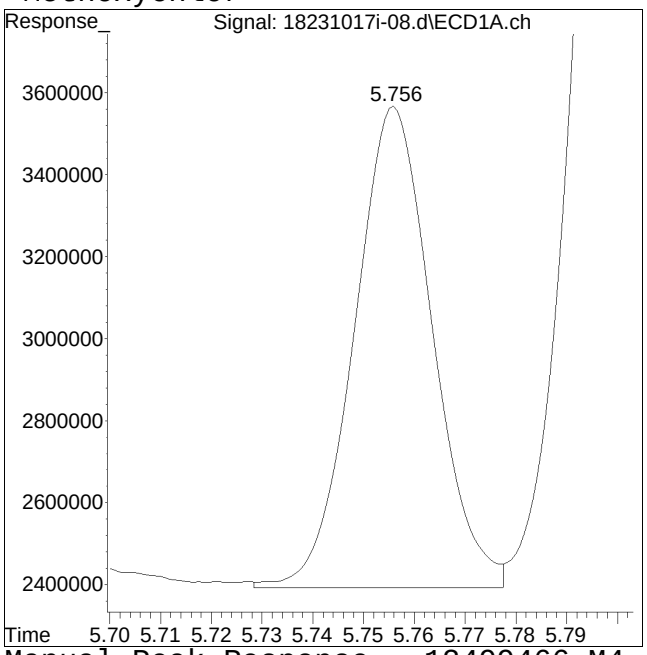
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #23: Methoxychlor



Original Peak Response = 12839791



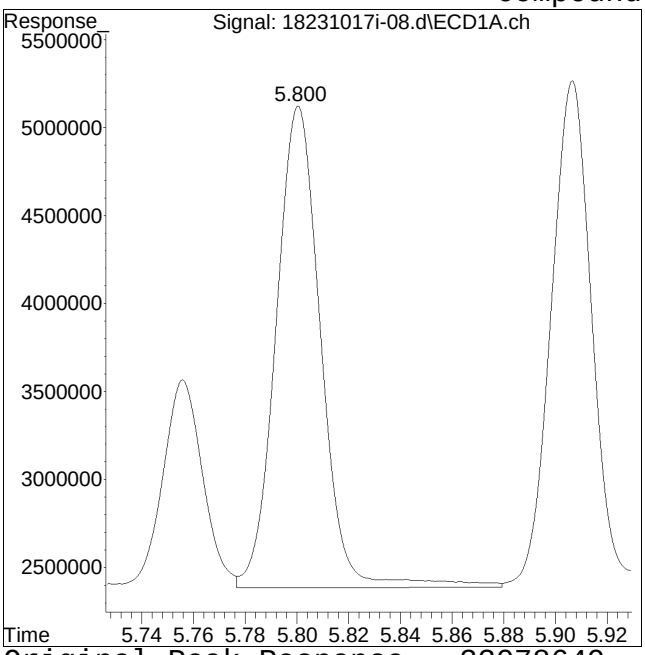
Manual Peak Response = 12499466 M4

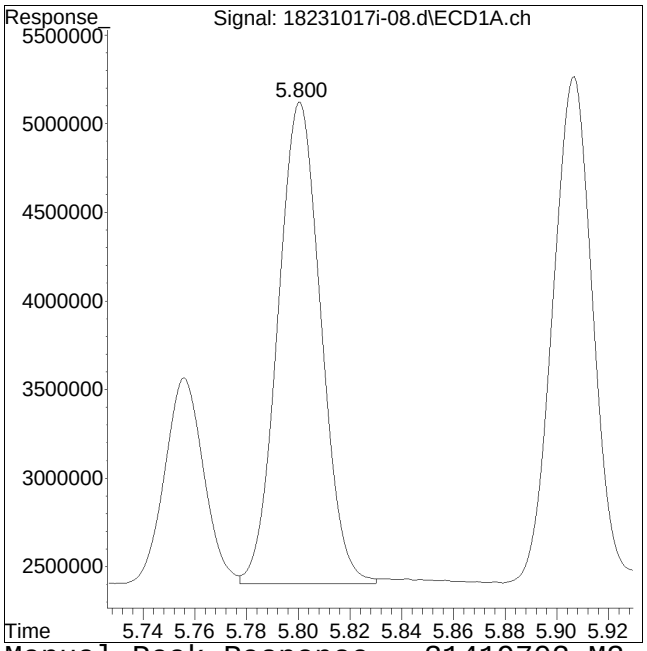
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #24: Mirex



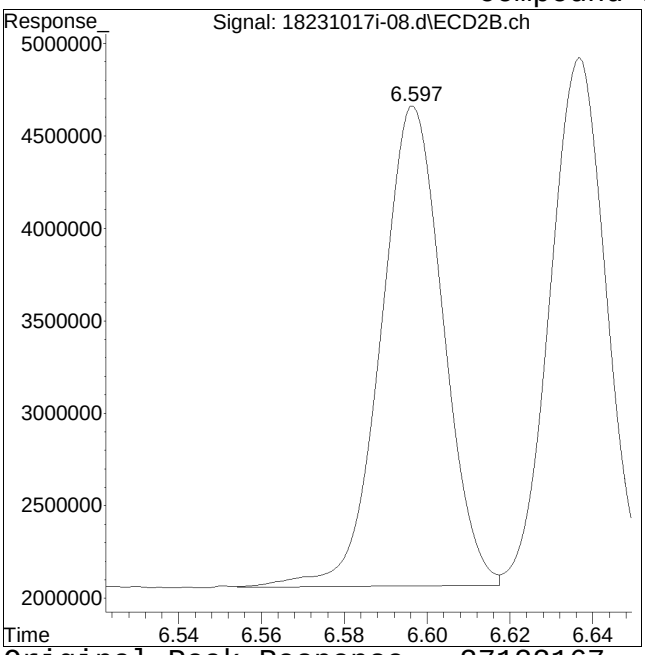


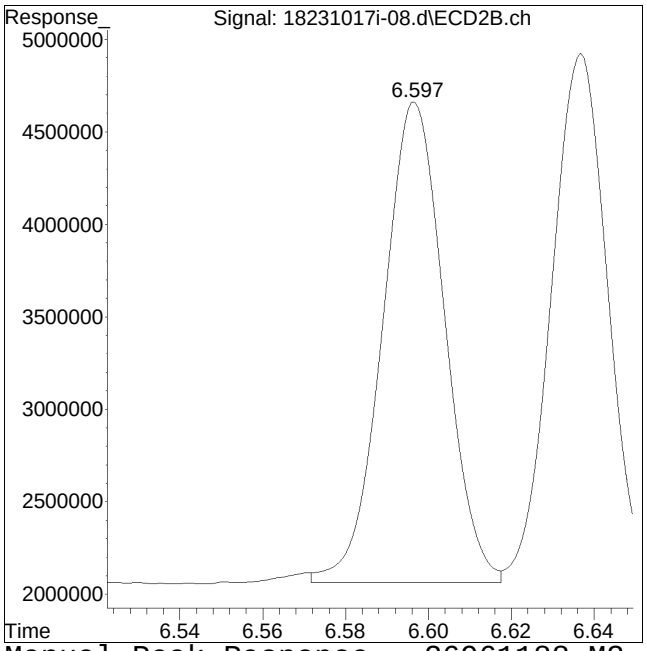
Original Peak Response = 33078649 Manual Peak Response = 31419702 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #62: Mirex #2



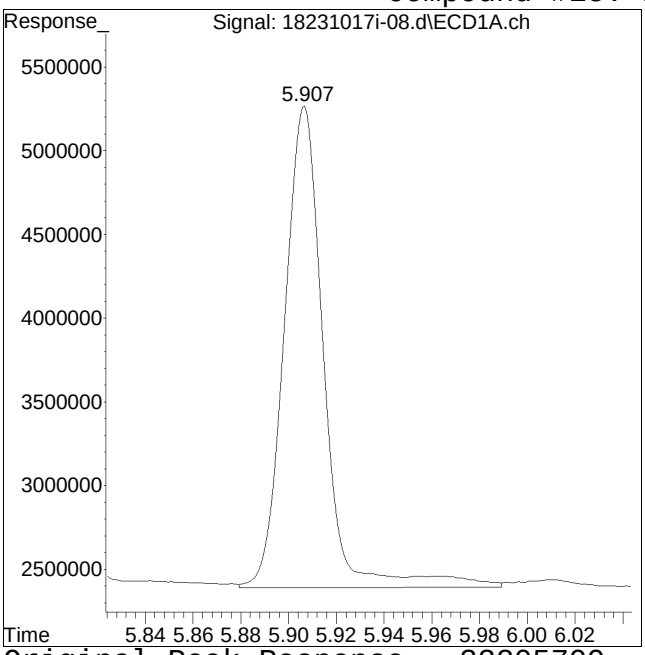


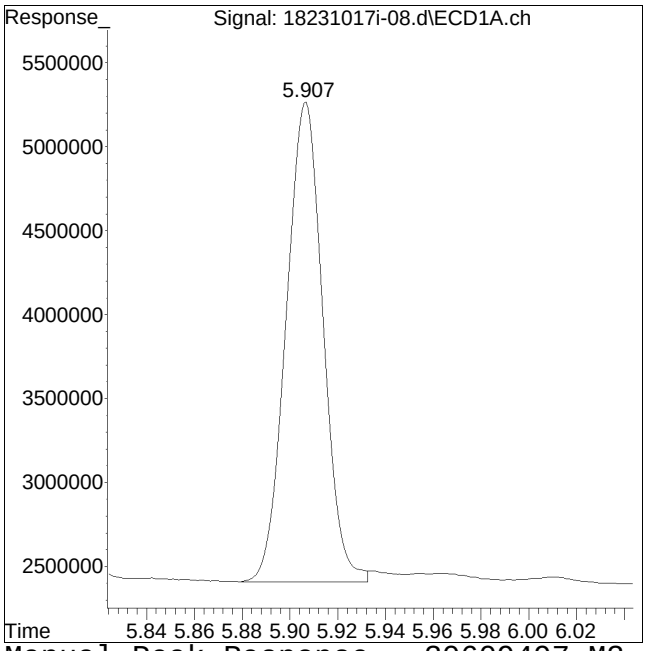
Original Peak Response = 27122167 Manual Peak Response = 26961188 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #25: Endosulfan Sulfate



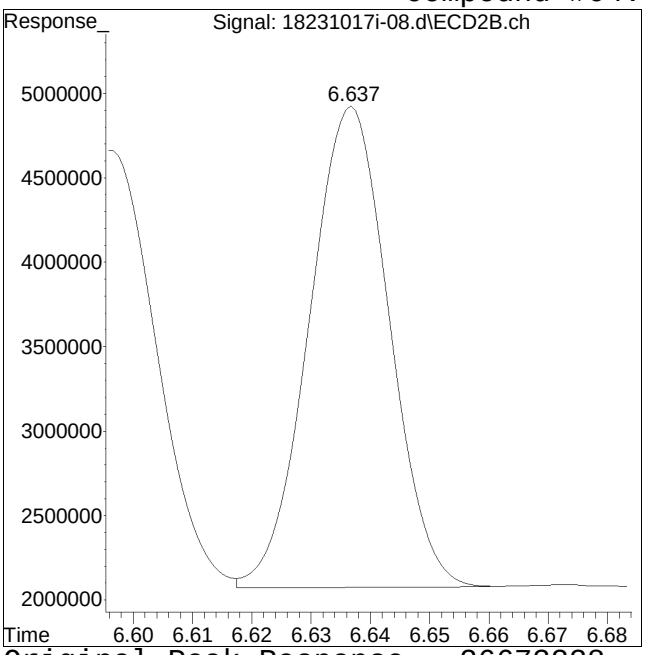


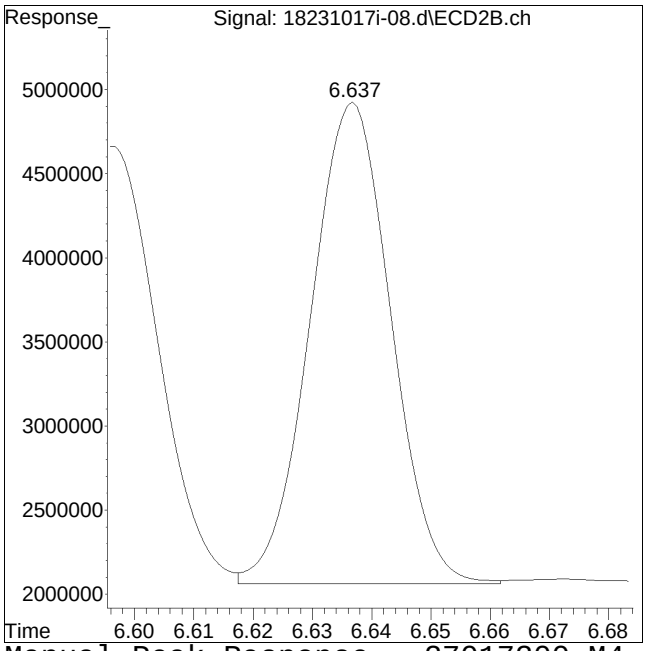
Original Peak Response = 33205799 Manual Peak Response = 30609497 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #64: Endrin Ketone #2



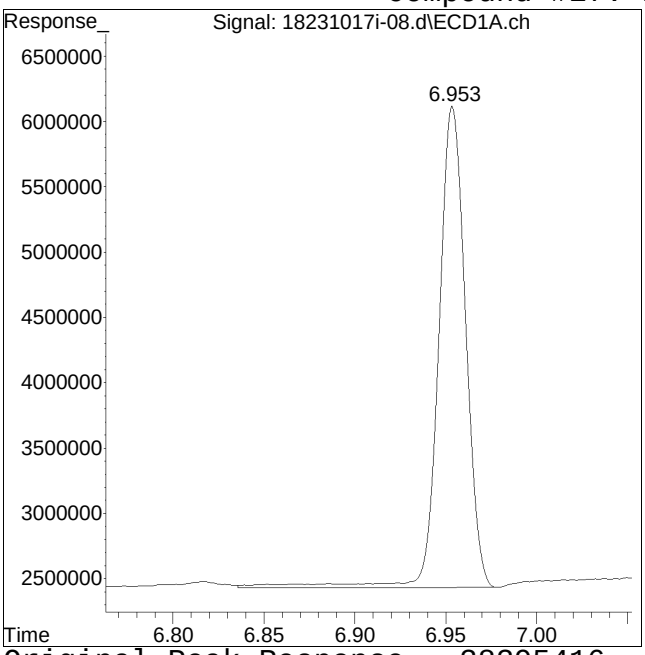


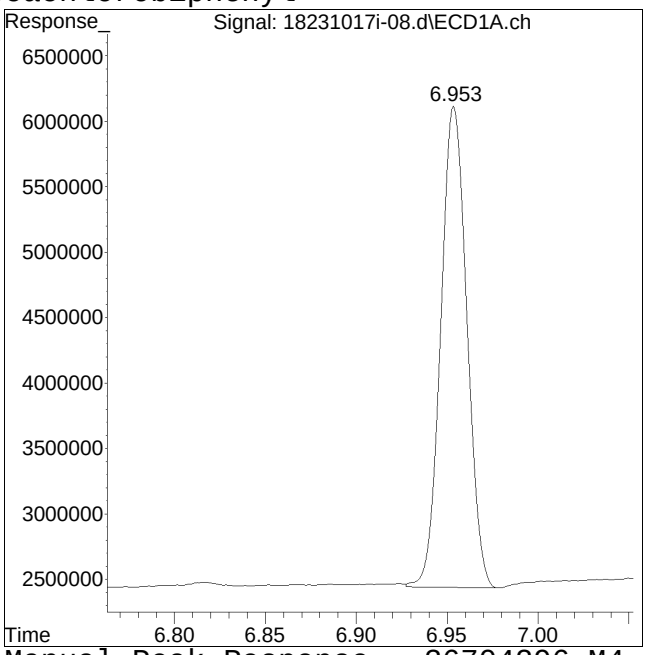
Original Peak Response = 26673238 Manual Peak Response = 27017300 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #27: Decachlorobiphenyl



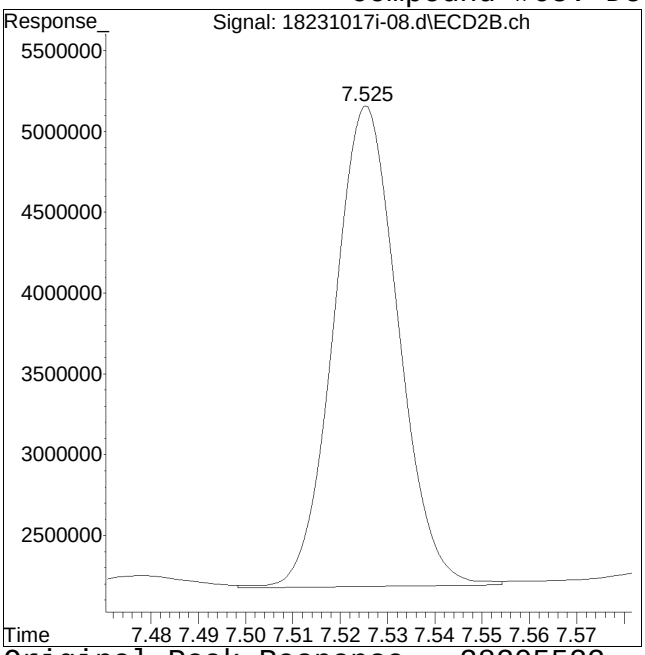


Original Peak Response = 38395416 Manual Peak Response = 36704296 M4
M4 = Poor automated baseline construction.

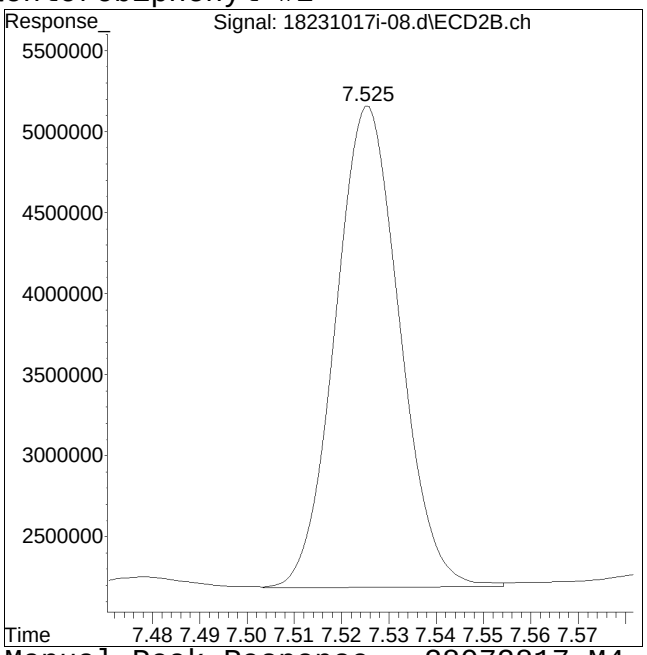
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-08.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:11 pm Instrument : Pest 18
Sample : il7pest,42e,,pp 11225 L0.0Quant Date : 10/19/2023 9:10 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 28205522



Manual Peak Response = 28072817 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:22 pm
Operator : PEST18:ejl
Sample : il8pest,42e,,pp 11224 L0.05
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 08:50:44 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Oct 10 11:29:18 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.721	1.770	82499881	72391024	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.155	2.319	175.5E6	156.3E6	NoCal M3	NoCal M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	6.954	7.525	164.7E6	128.1E6	NoCal M4	NoCal
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	2.397	2.657	188.2E6	171.3E6	NoCal M3	NoCal
4)	alpha-BHC	2.510	2.761	234.5E6	208.8E6	NoCal M3	NoCal
5)	gamma-BHC (l	2.730	3.053	212.9E6	189.7E6	NoCal M3	NoCal
6)	beta-BHC	2.798	3.128	98402472	87836988	NoCal	NoCal
7)	delta-BHC	2.934	3.396	217.3E6	193.2E6	NoCal M3	NoCal
8)	Heptachlor	3.095	3.448	196.1E6	180.3E6	NoCal M4	NoCal
9)	Aldrin	3.346	3.764	195.9E6	177.5E6	NoCal	NoCal
10)	Alachlor	3.484	3.664	33343299	26615943	NoCal	NoCal M3
11)	Chlorpyrifos	3.580	4.017	97037010	89854409	NoCal	NoCal
12)	Heptachlor E	3.907	4.378	186.9E6	168.8E6	NoCal M3	NoCal M4
13)	gamma-Chlord	4.034	4.599	170.1E6	151.8E6	NoCal M4	NoCal
14)	alpha-Chlord	4.170	4.772	190.9E6	170.5E6	NoCal M4	NoCal
15)	4,4'-DDE	4.277	4.993	192.6E6	173.7E6	NoCal	NoCal
16)	Endosulfan I	4.305	4.834	176.1E6	160.6E6	NoCal M3	NoCal M4
17)	Dieldrin	4.569	5.146	185.9E6	164.1E6	NoCal M4	NoCal M4
18)	Endrin	4.825	5.459	193.6E6	166.2E6	NoCal M3	NoCal

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:22 pm
Operator : PEST18:ejl
Sample : il8pest,42e,,pp 11224 L0.05
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 08:50:44 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Oct 10 11:29:18 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
19)	4,4'-DDD	4.952	5.601	154.8E6	136.1E6	NoCal M4	NoCal
20)	Endosulfan I	5.077	5.670	167.8E6	147.3E6	NoCal M4	NoCal
21)	4,4'-DDT	5.252	5.888	136.1E6	126.3E6	NoCal M4	NoCal
22)	Endrin Aldeh	5.506	5.980	141.6E6	124.0E6	NoCal M4	NoCal
23)	Methoxychlor	5.756	6.475	74769312	69451571	NoCal M4	NoCal M3
24)	Mirex	5.800	6.596	146.7E6	121.1E6	NoCal M4	NoCal
25)	Endosulfan S	5.906	6.217	158.7E6	135.2E6	NoCal M4	NoCal
26)	Endrin Keton	6.136	6.636	162.4E6	143.3E6	NoCal M4	NoCal
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

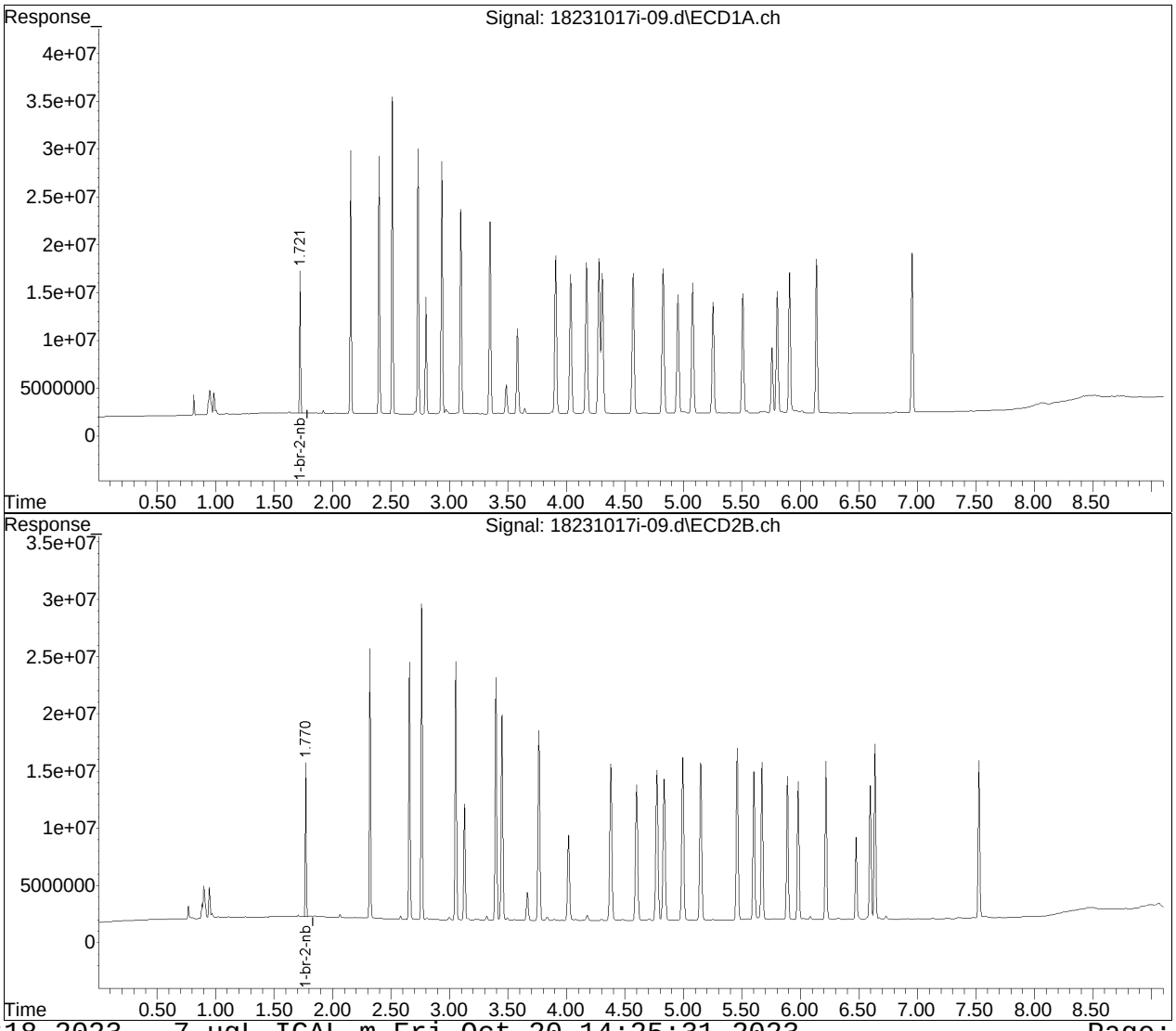
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:22 pm
Operator : PEST18:ejl
Sample : il8pest,42e,,pp 11224 L0.05
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 08:50:44 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Tue Oct 10 11:29:18 2023
Response via : Initial Calibration
Integrator: ChemStation

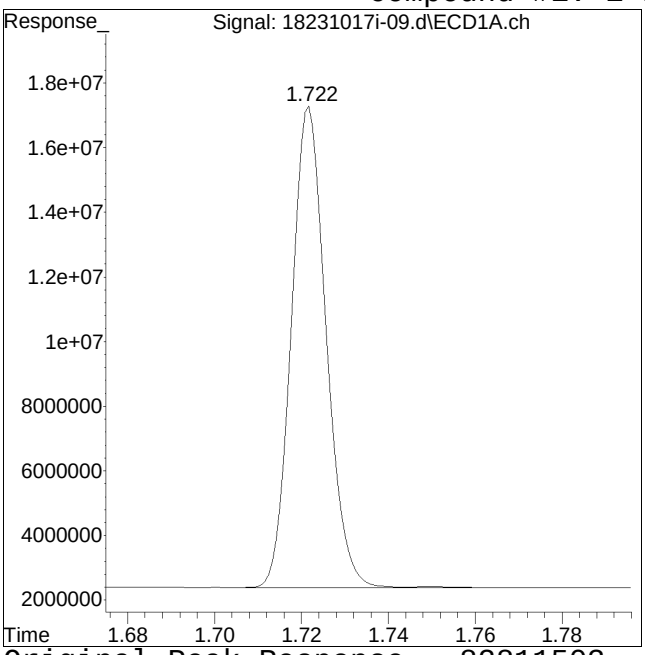
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

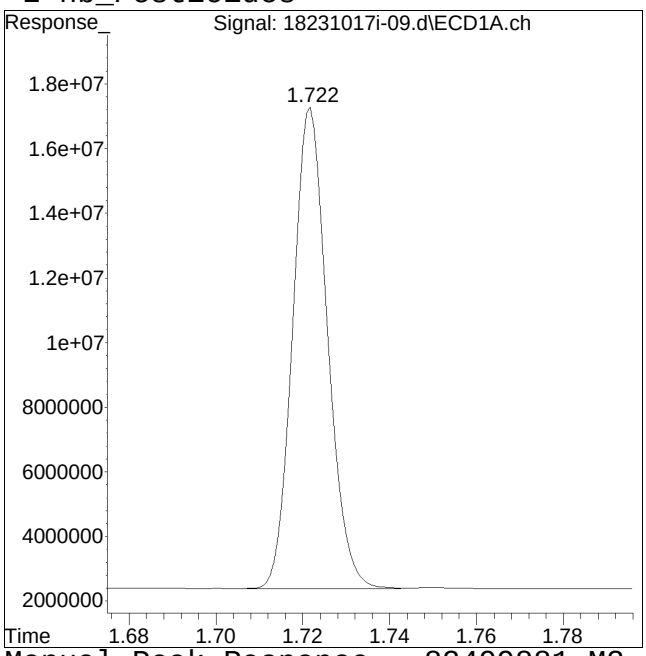


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #1: 1-br-2-nb_Pesticides



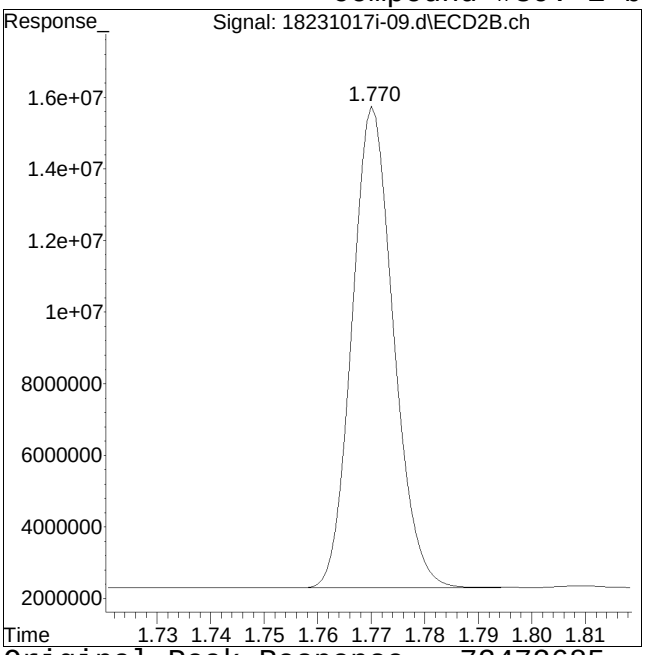


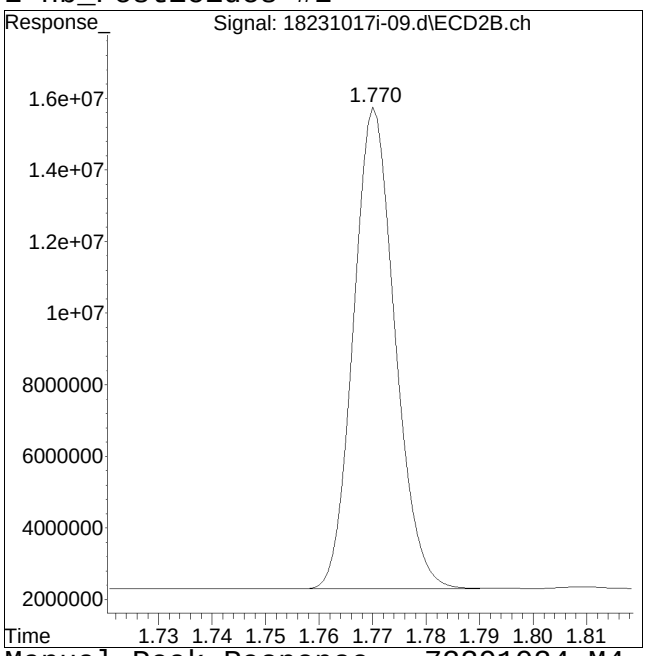
Original Peak Response = 82811503 Manual Peak Response = 82499881 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #39: 1-br-2-nb_Pesticides #2



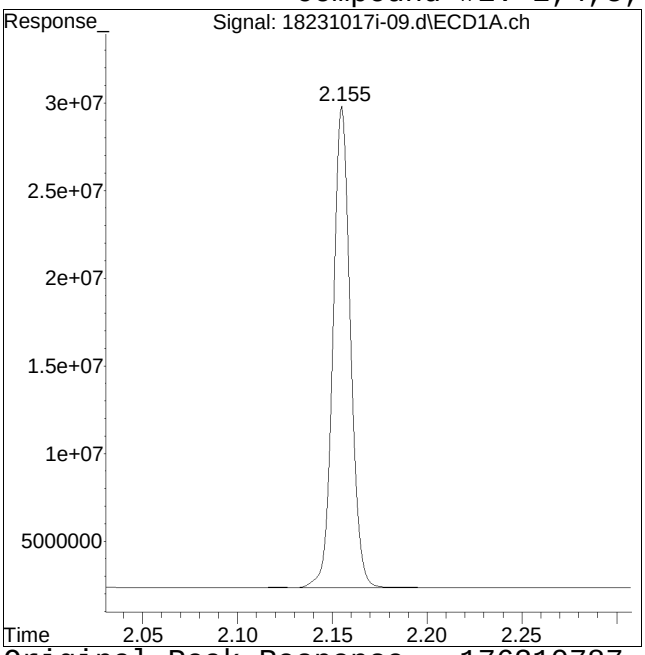


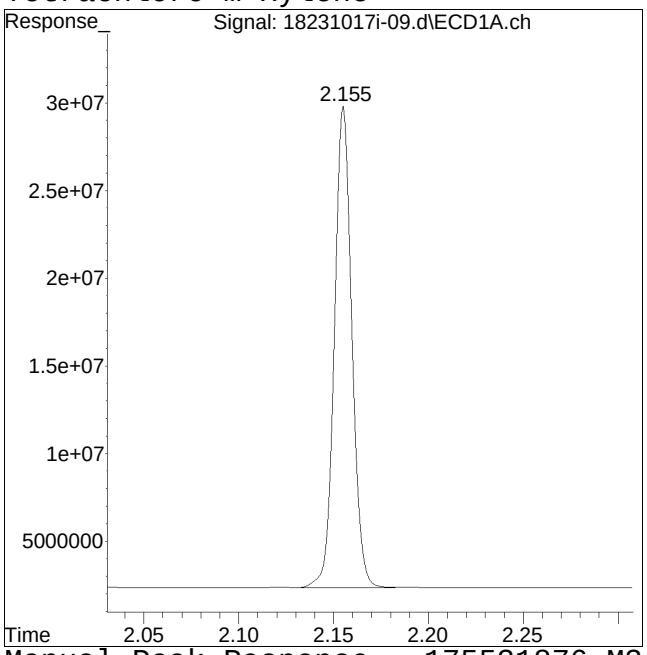
Original Peak Response = 72472685 Manual Peak Response = 72391024 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



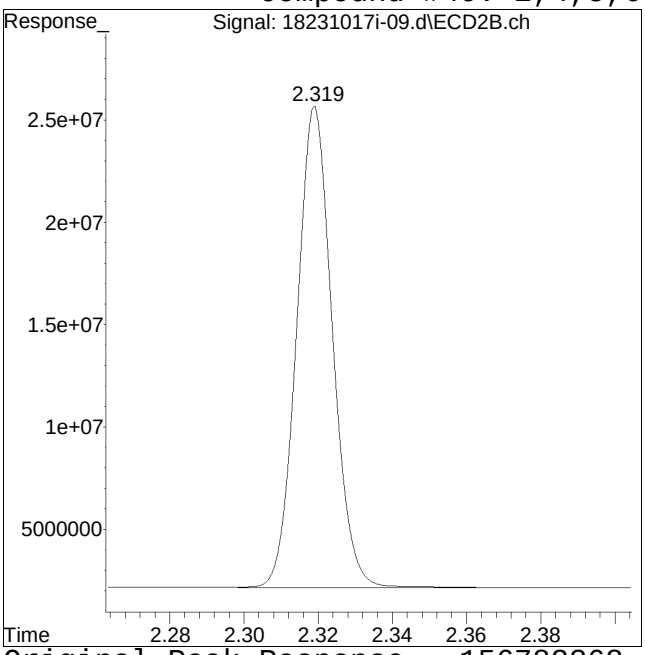


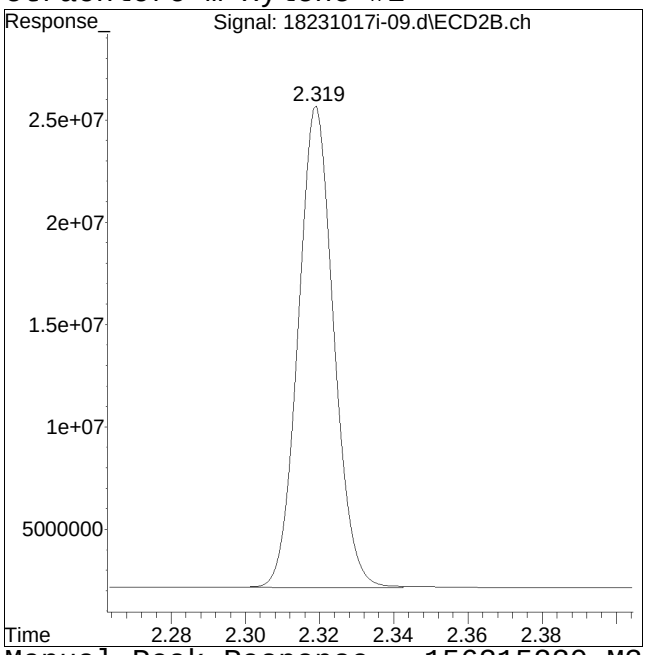
Original Peak Response = 176310787 Manual Peak Response = 175531876 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



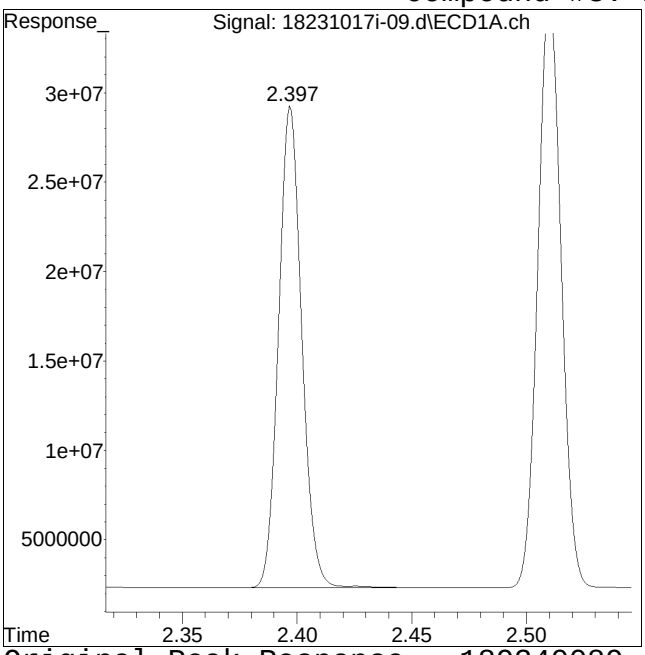


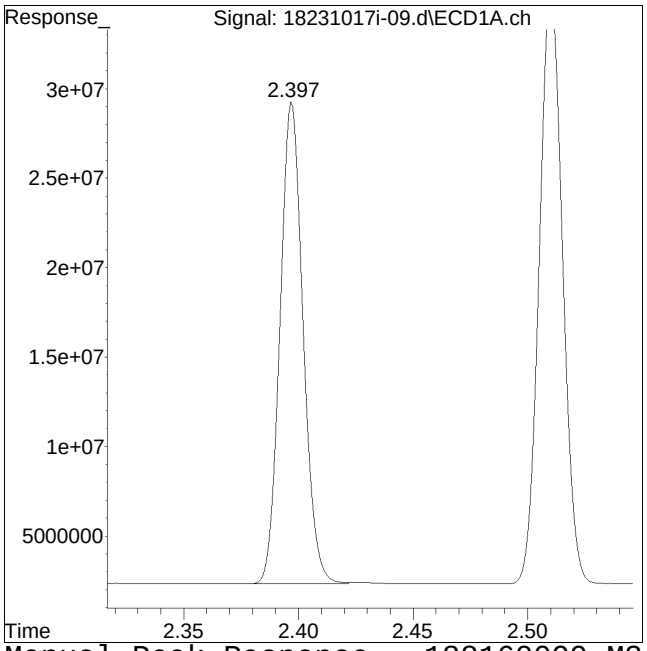
Original Peak Response = 156782368 Manual Peak Response = 156315230 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #3: Hexachlorobenzene



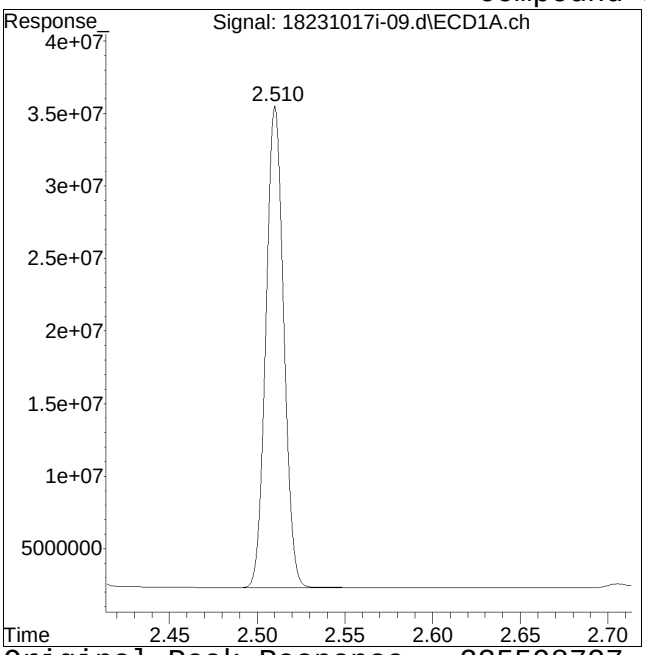


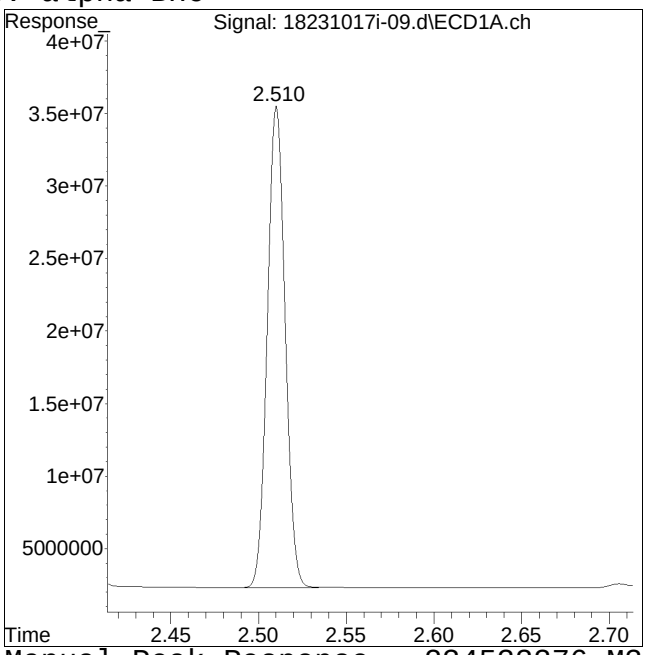
Original Peak Response = 189340089 Manual Peak Response = 188160099 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #4: alpha-BHC



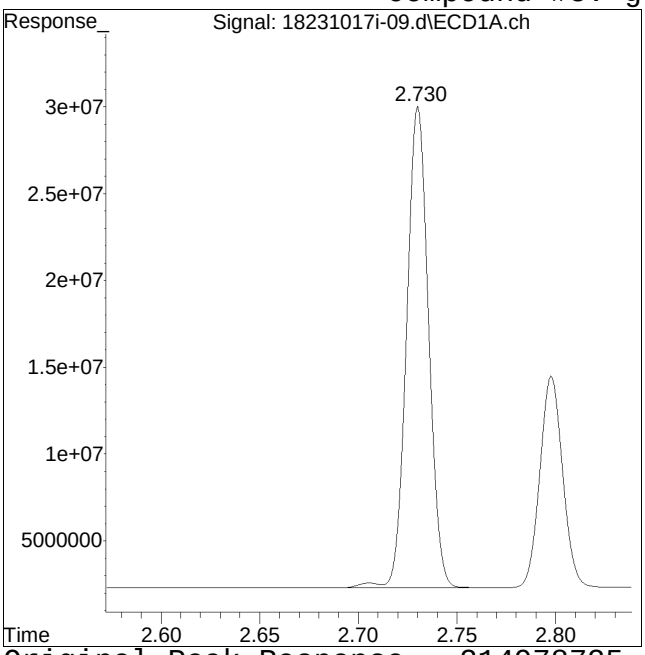


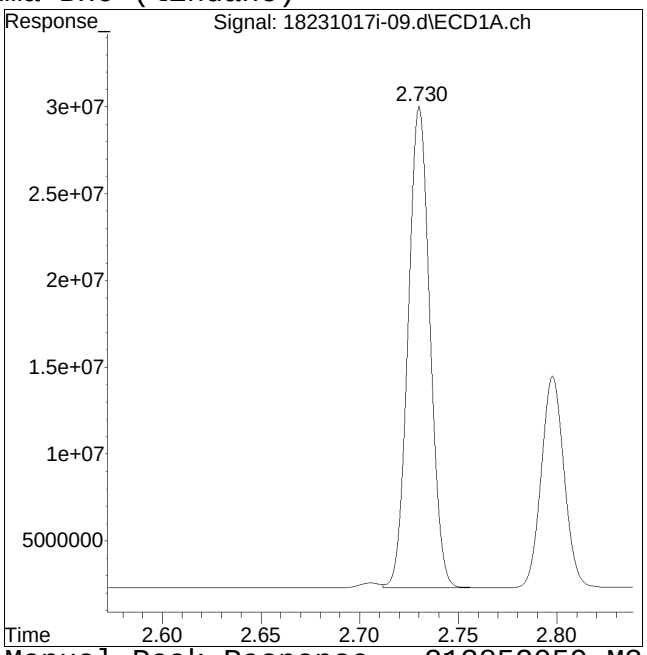
Original Peak Response = 235598727 Manual Peak Response = 234533376 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #5: gamma-BHC (lindane)



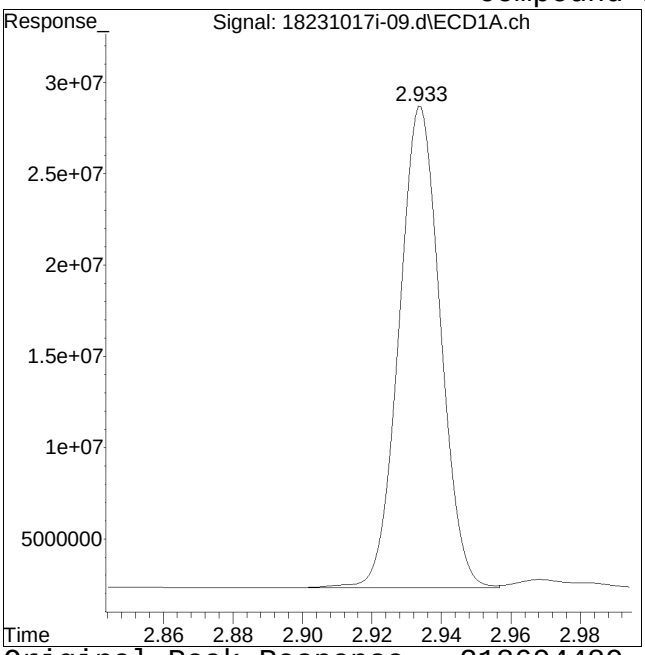


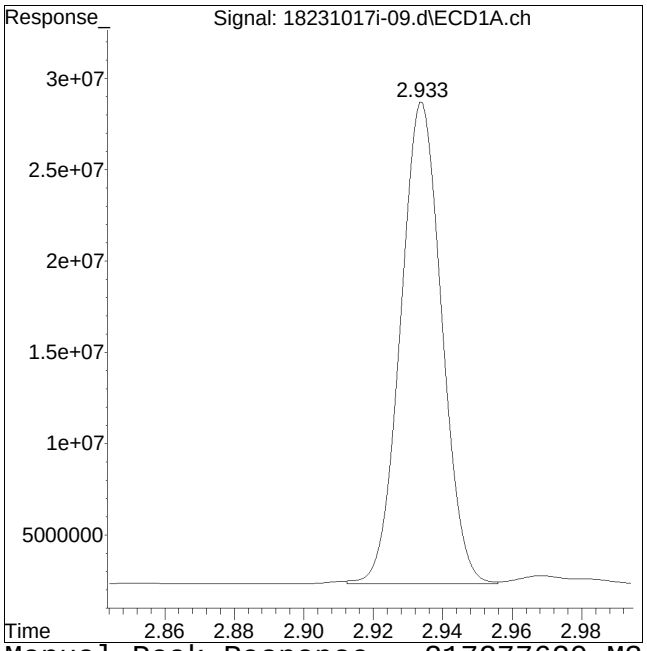
Original Peak Response = 214978725 Manual Peak Response = 212852059 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #7: delta-BHC



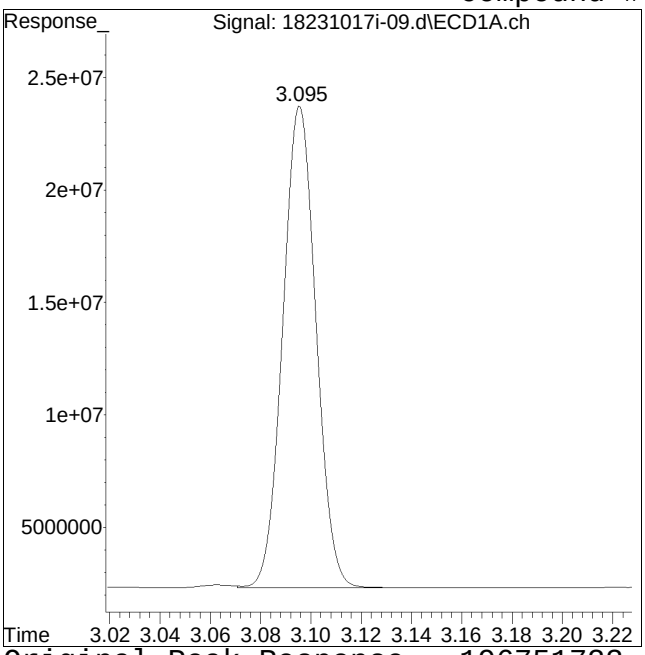


Original Peak Response = 218604489 Manual Peak Response = 217277620 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

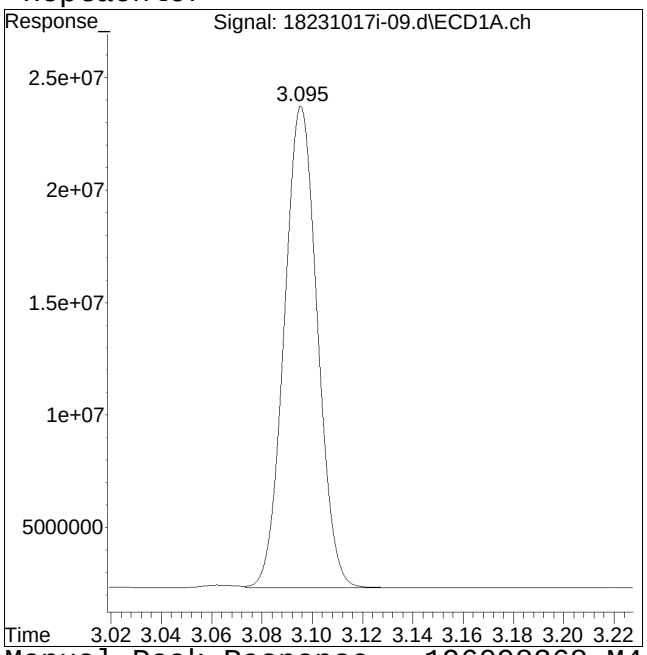
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #8: Heptachlor



Original Peak Response = 196751723



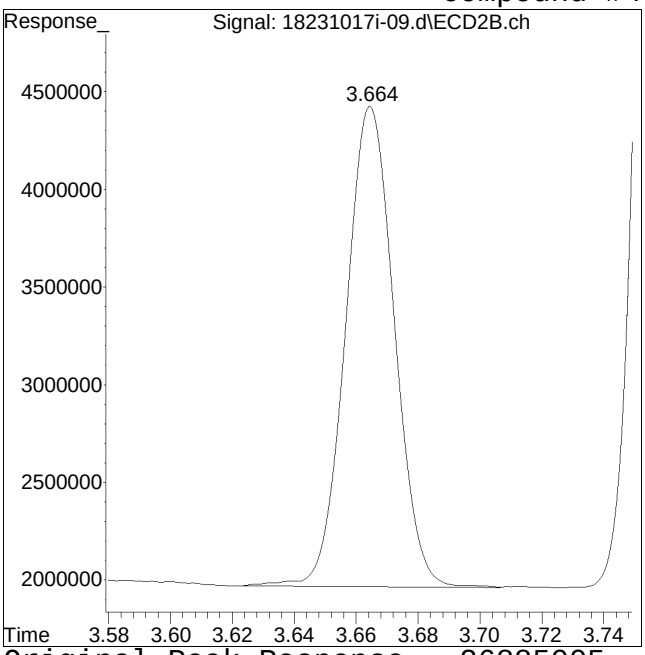
Manual Peak Response = 196098368 M4

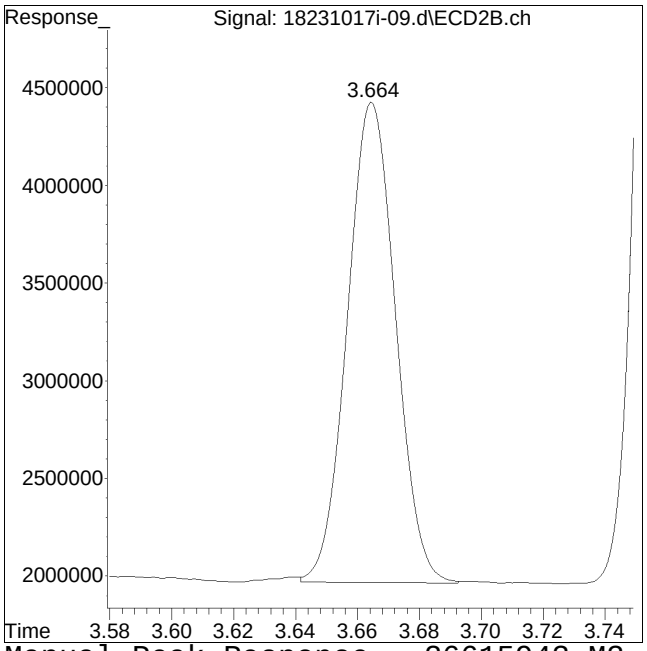
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #48: Alachlor #2



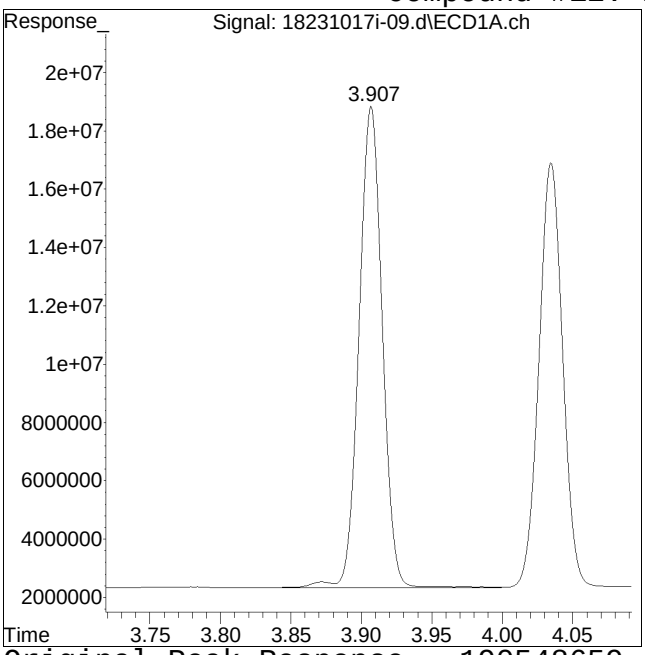


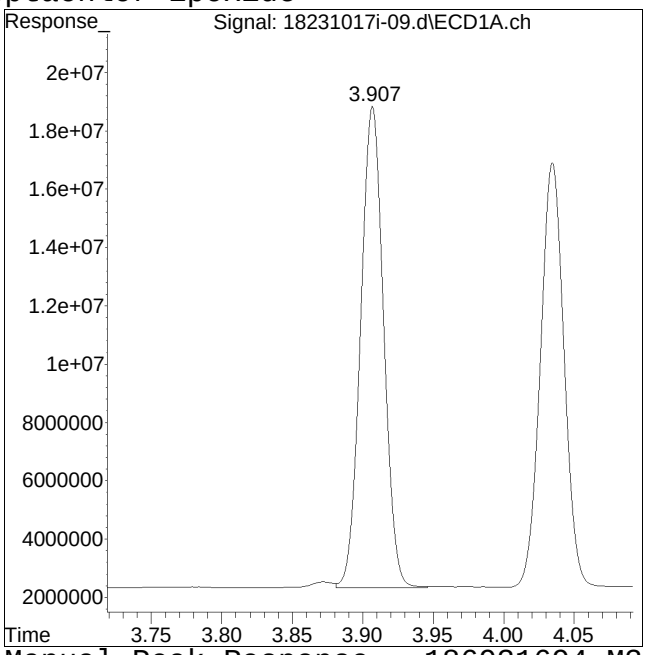
Original Peak Response = 26885005 Manual Peak Response = 26615943 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #12: Heptachlor Epoxide



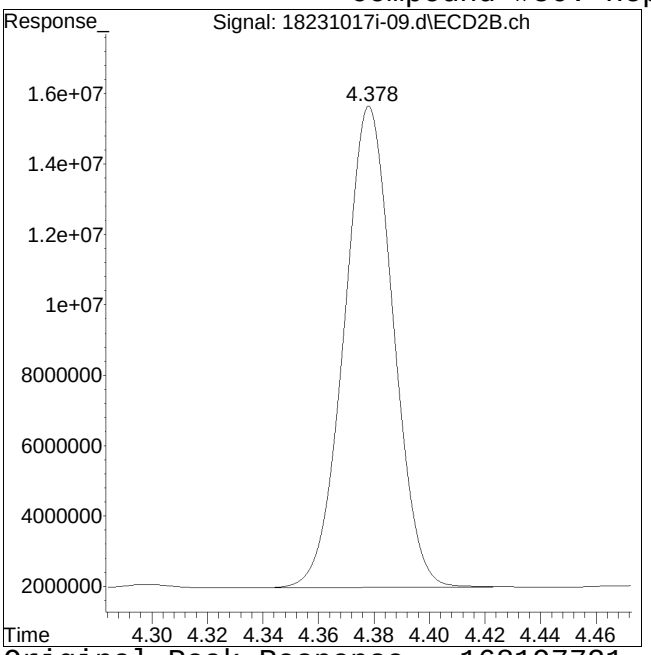


Original Peak Response = 190548659 Manual Peak Response = 186931694 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

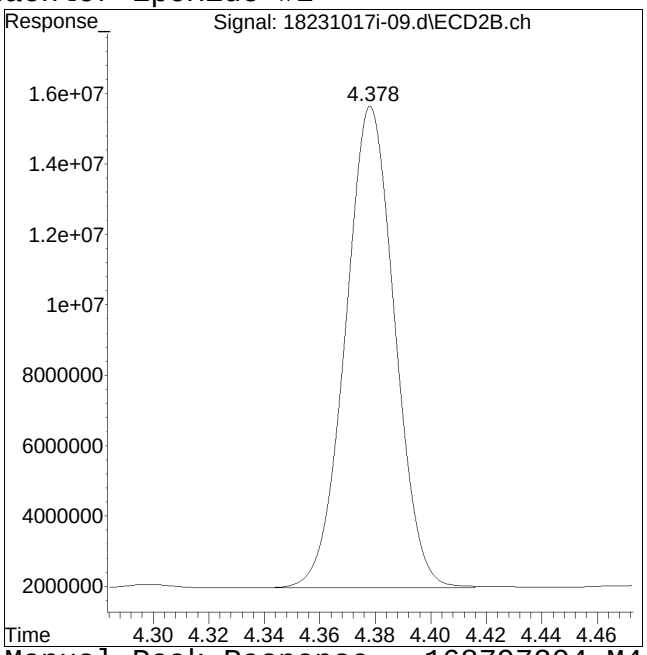
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 168197721



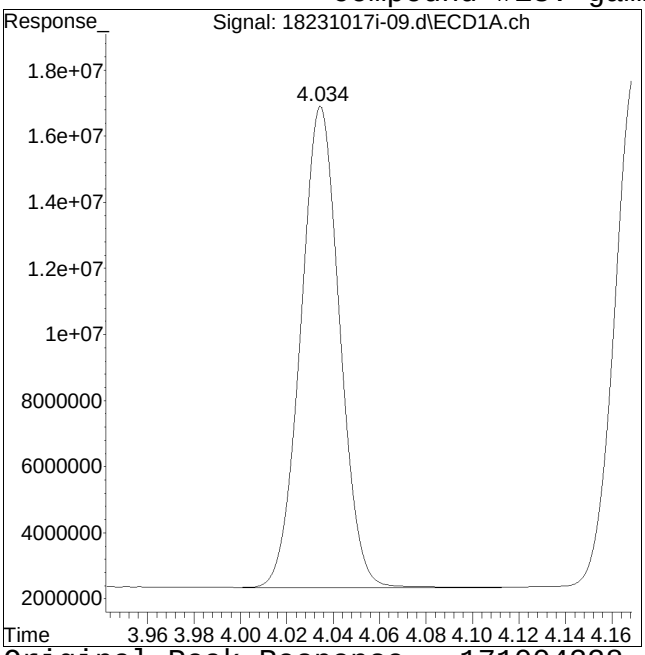
Manual Peak Response = 168797204 M4

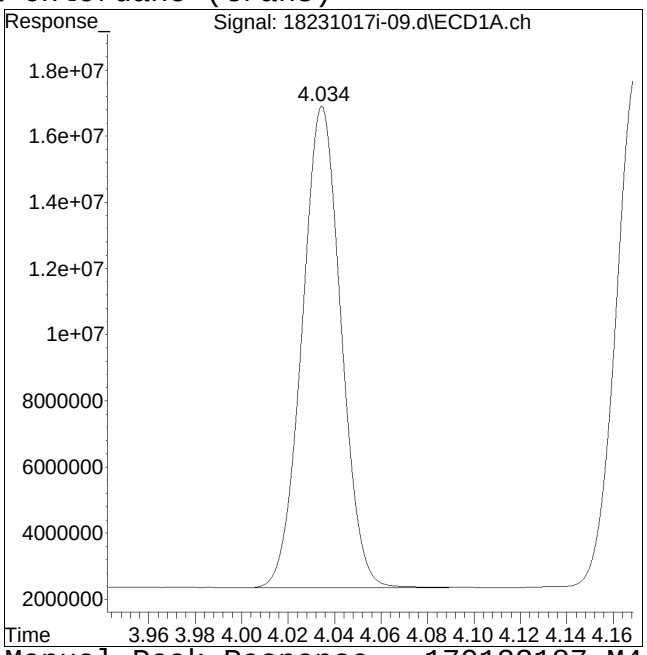
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #13: gamma-Chlordane (trans)



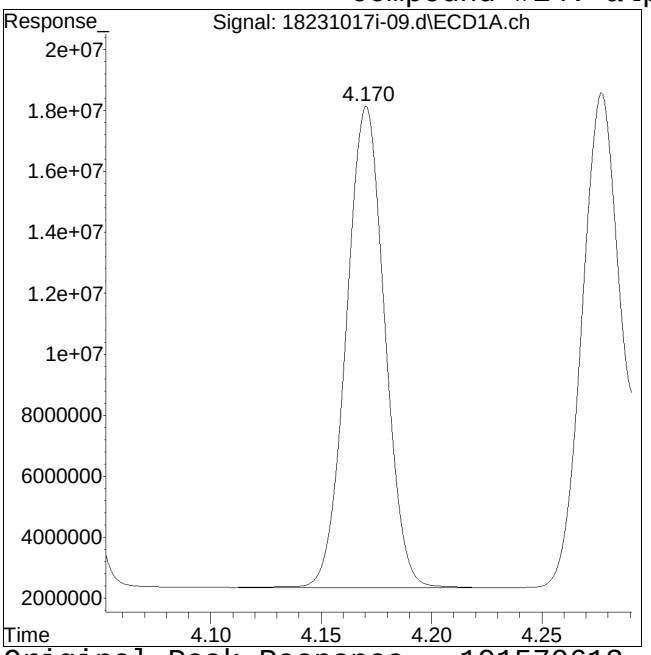


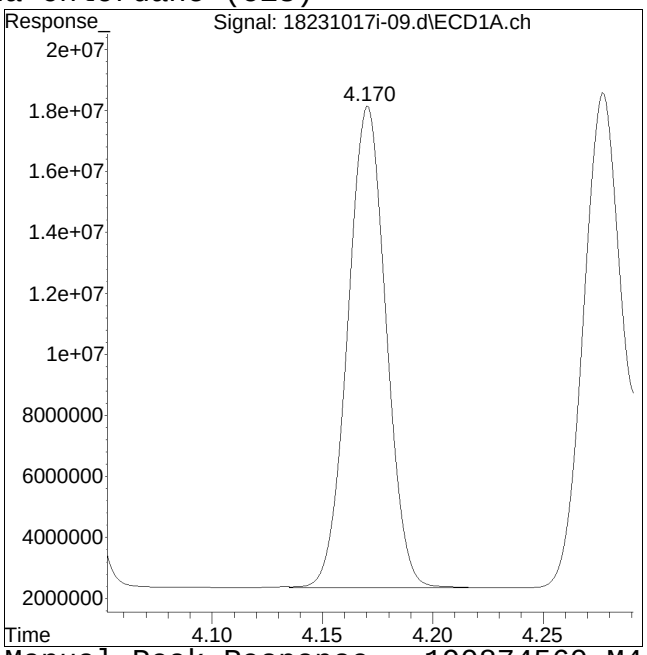
Original Peak Response = 171004328 Manual Peak Response = 170123187 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #14: alpha-Chlordane (cis)



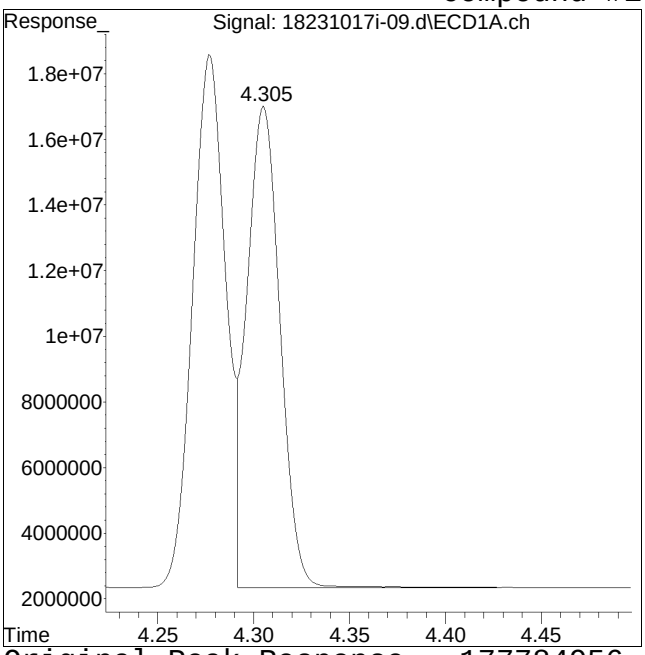


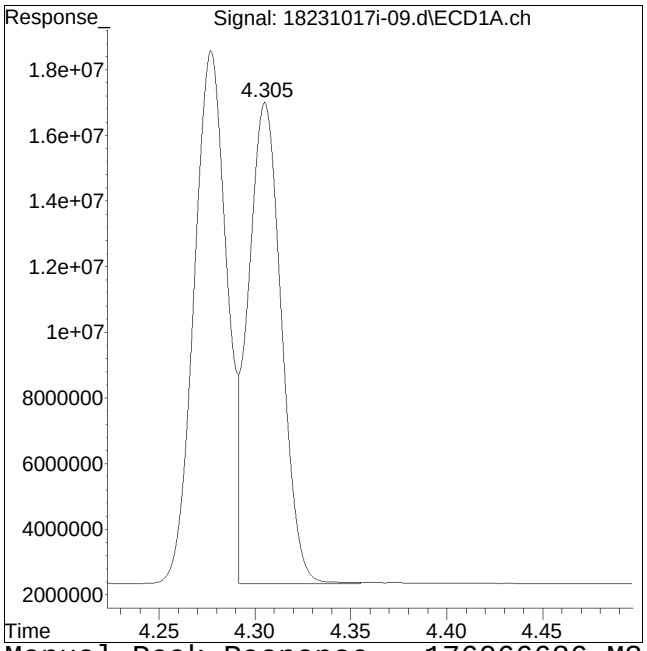
Original Peak Response = 191570613 Manual Peak Response = 190874560 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #16: Endosulfan I



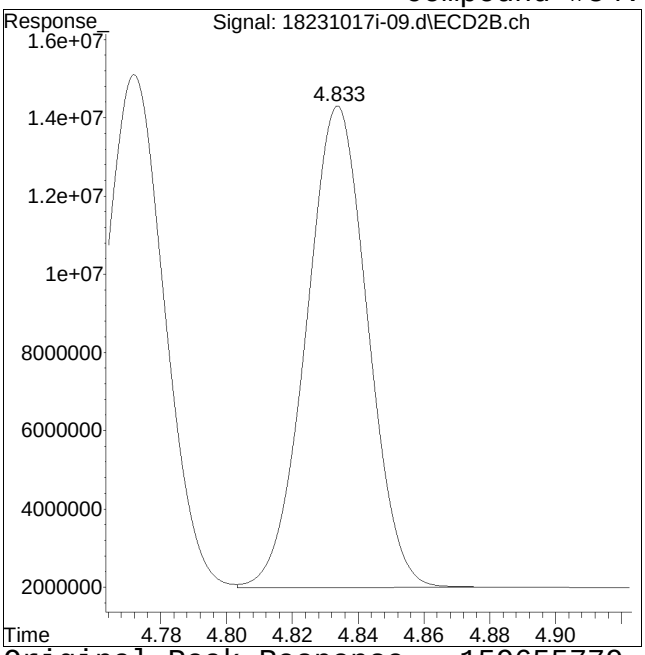


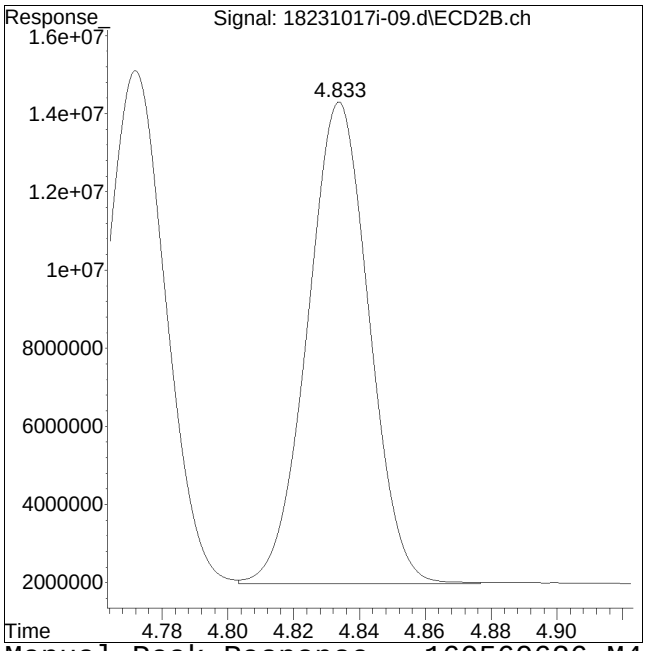
Original Peak Response = 177784956 Manual Peak Response = 176066686 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #54: Endosulfan I #2



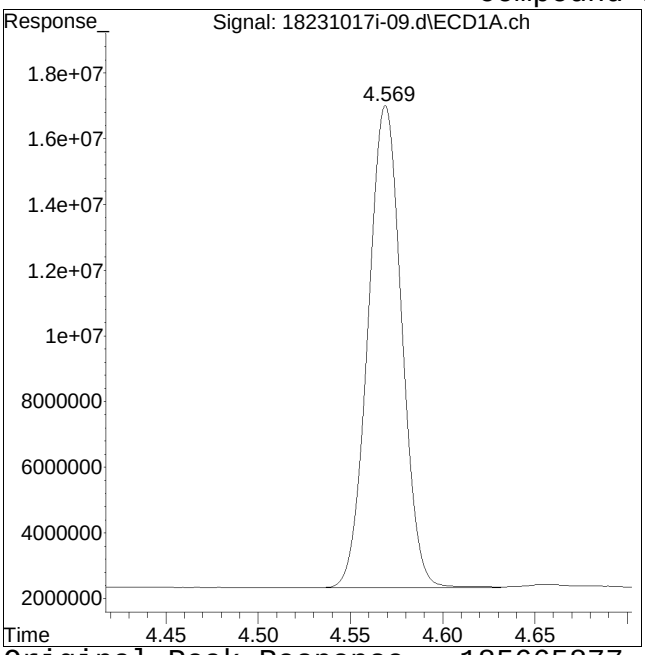


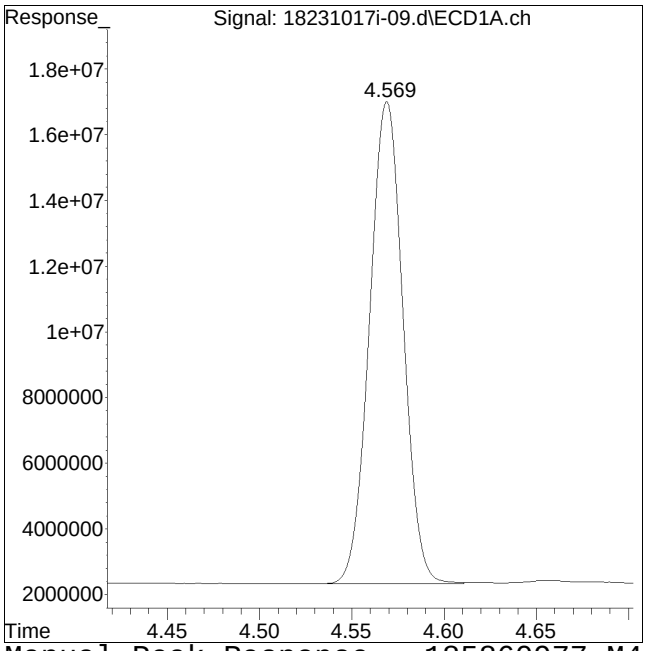
Original Peak Response = 159655779 Manual Peak Response = 160560626 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #17: Dieldrin



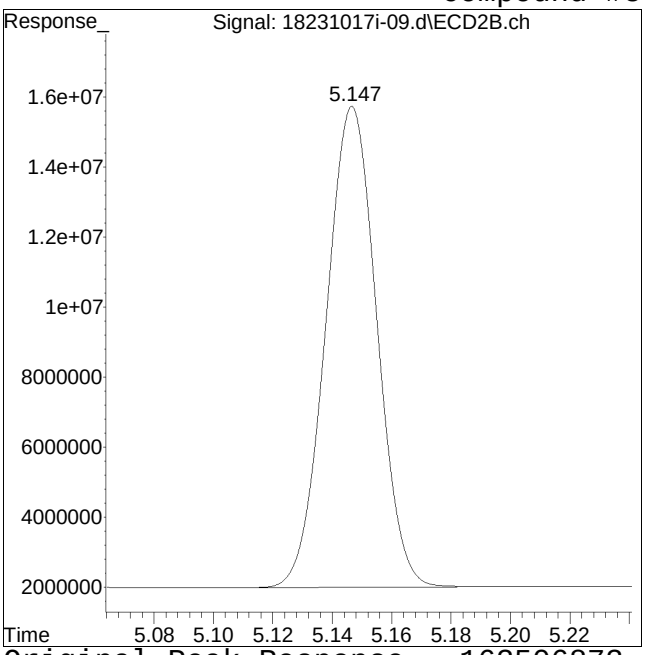


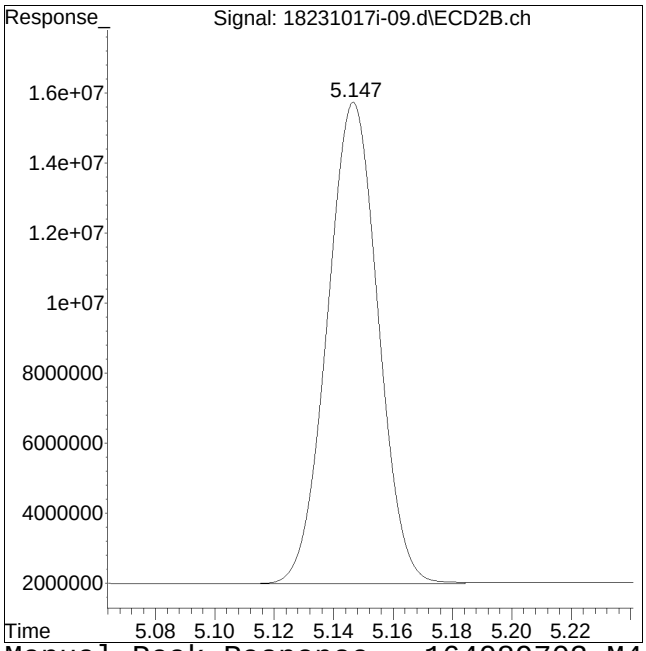
Original Peak Response = 185665877 Manual Peak Response = 185860977 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #55: Dieldrin #2



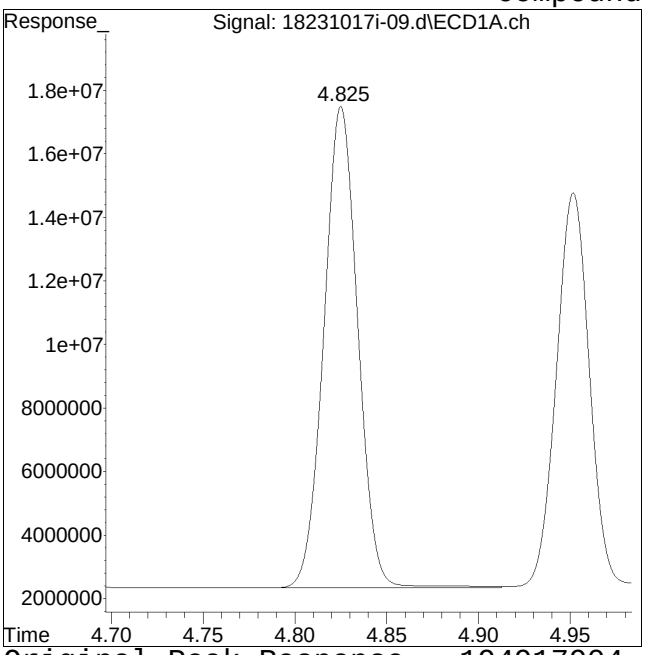


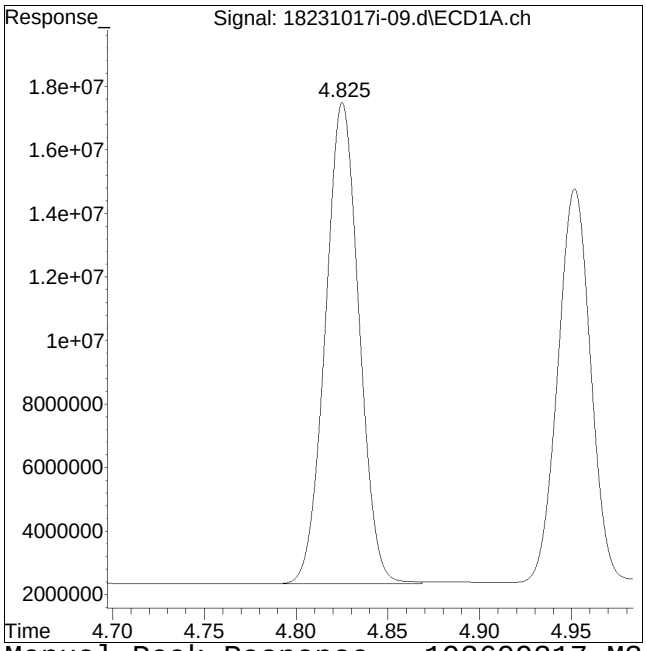
Original Peak Response = 163506873 Manual Peak Response = 164089703 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #18: Endrin



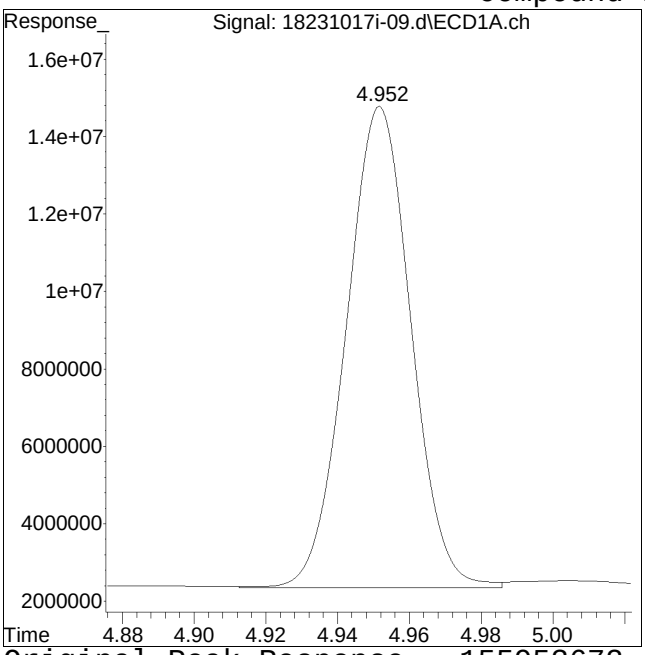


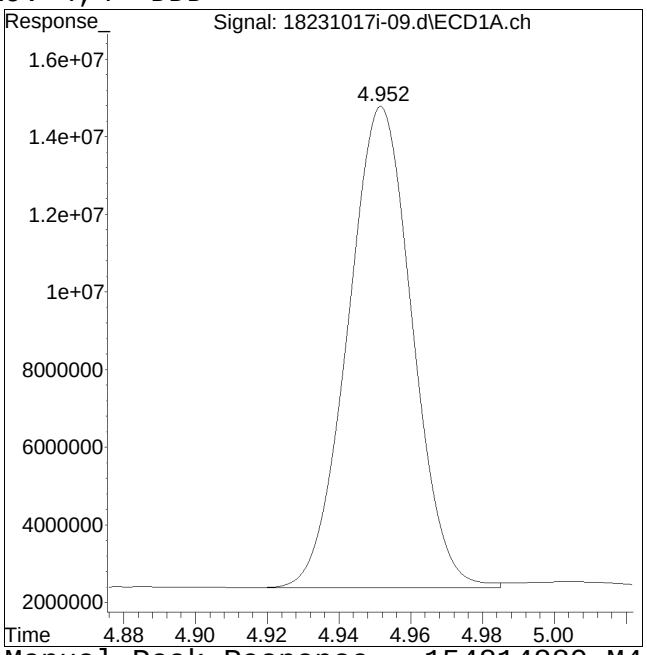
Original Peak Response = 194917904 Manual Peak Response = 193609317 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #19: 4,4'-DDD



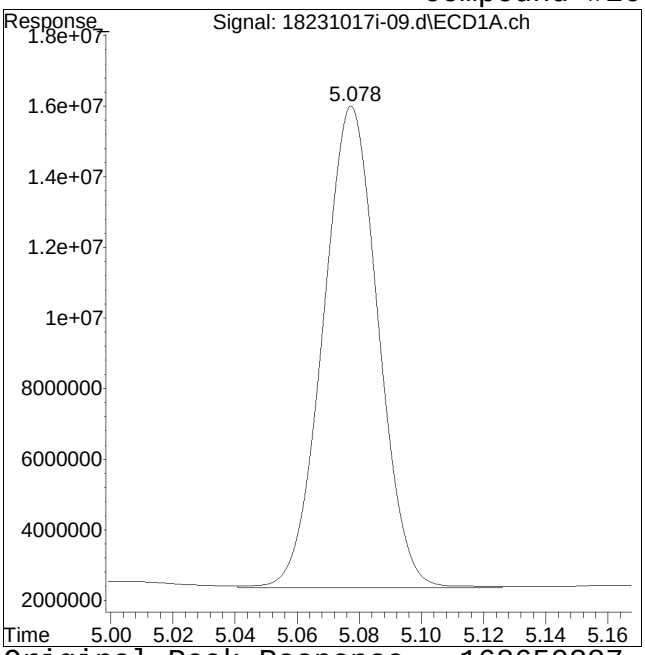


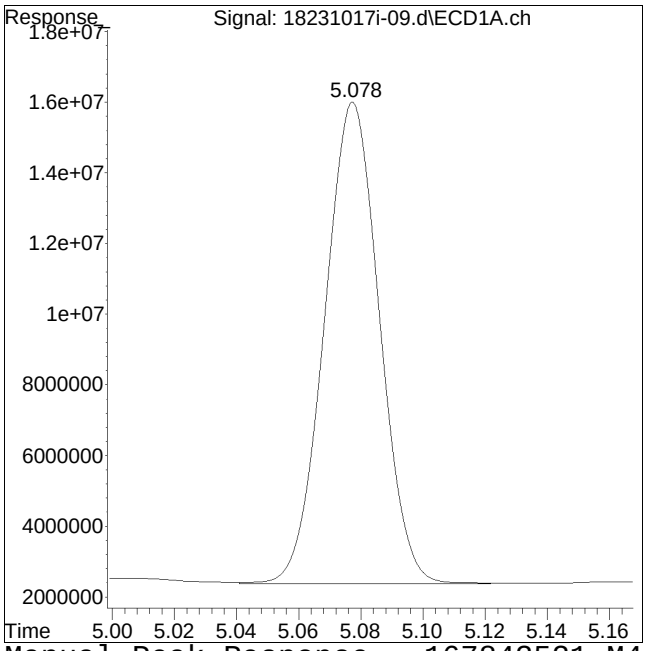
Original Peak Response = 155953672 Manual Peak Response = 154814880 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #20: Endosulfan II



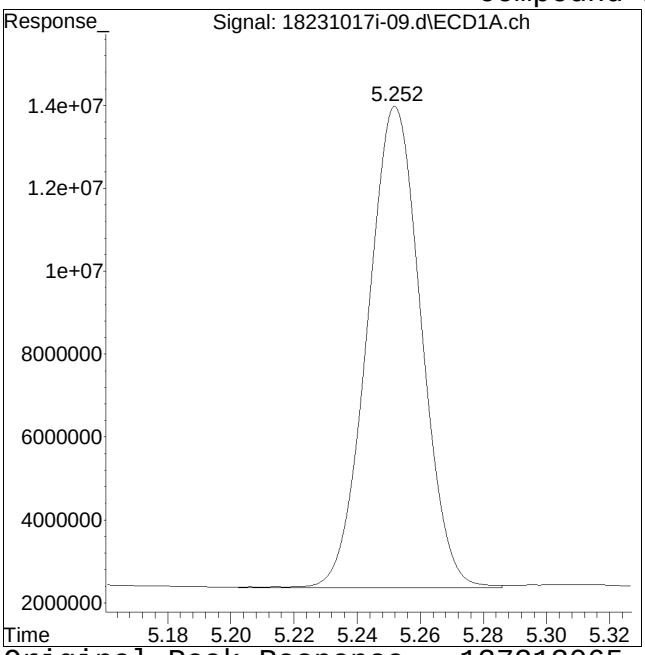


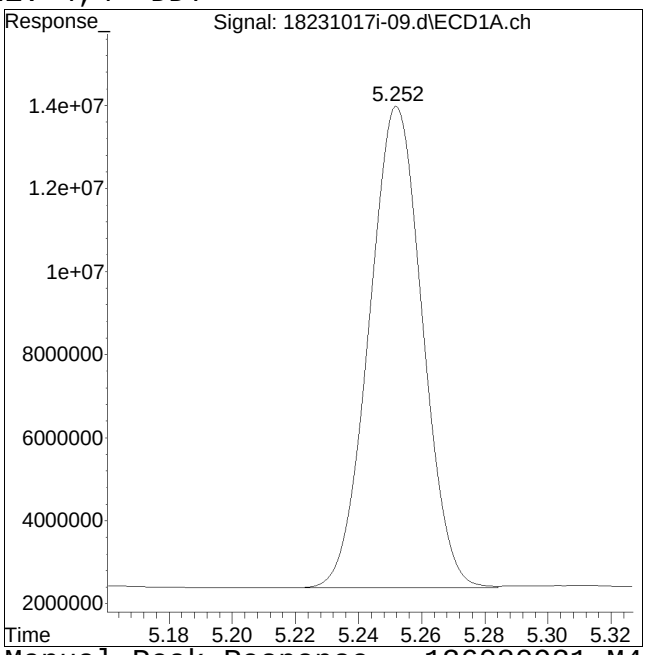
Original Peak Response = 168650387 Manual Peak Response = 167843521 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #21: 4,4'-DDT



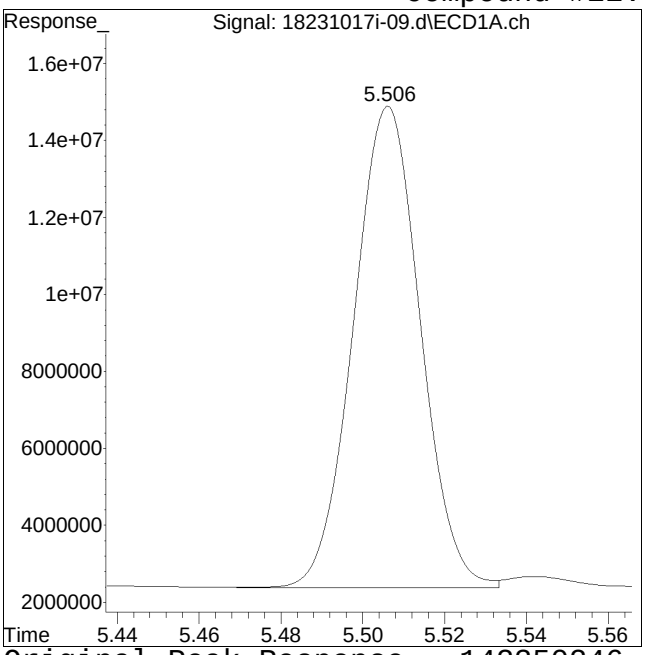


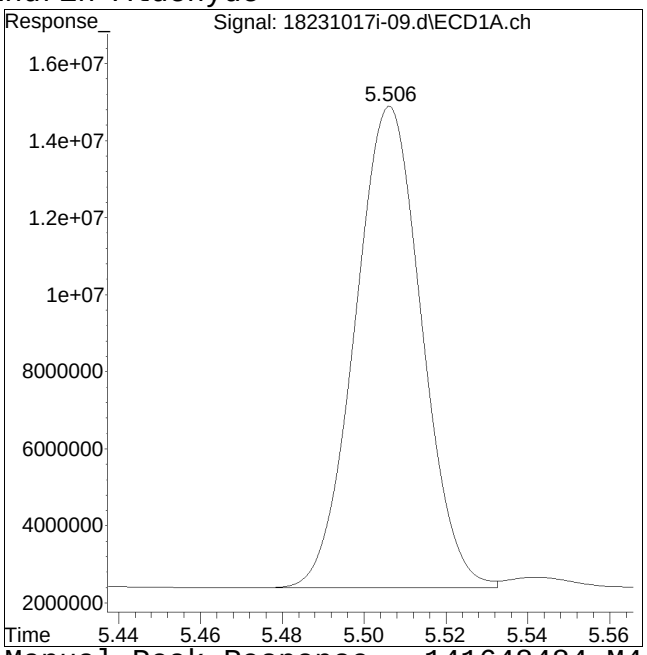
Original Peak Response = 137213065 Manual Peak Response = 136080921 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #22: Endrin Aldehyde



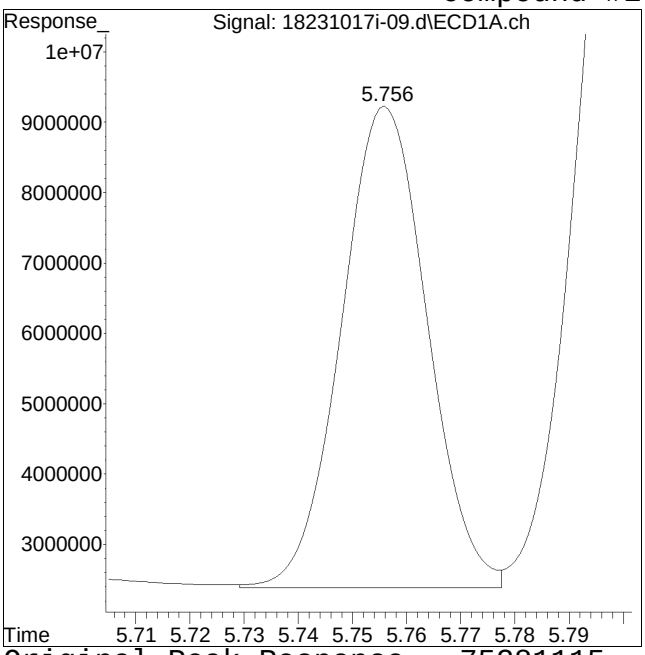


Original Peak Response = 142350246 Manual Peak Response = 141648484 M4
M4 = Poor automated baseline construction.

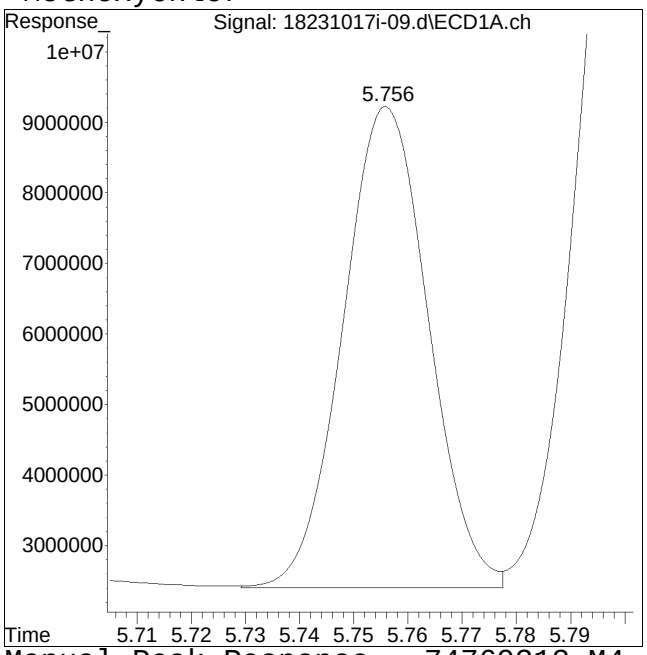
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #23: Methoxychlor



Original Peak Response = 75281115



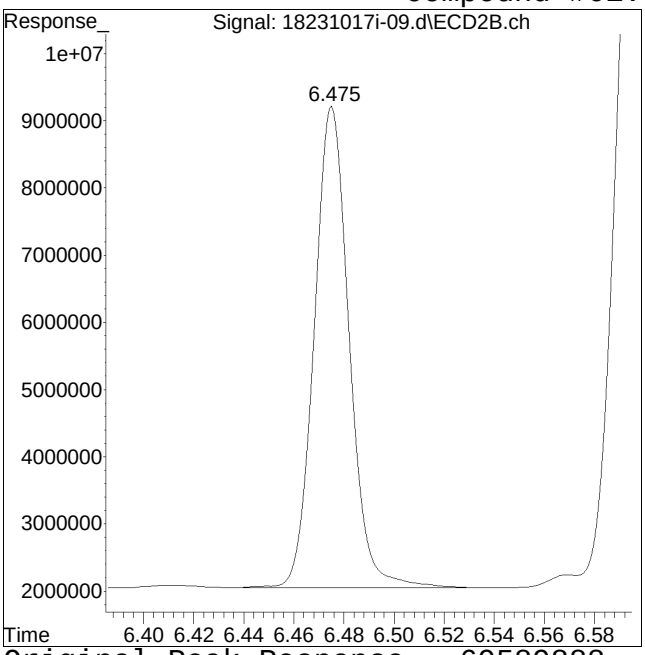
Manual Peak Response = 74769312 M4

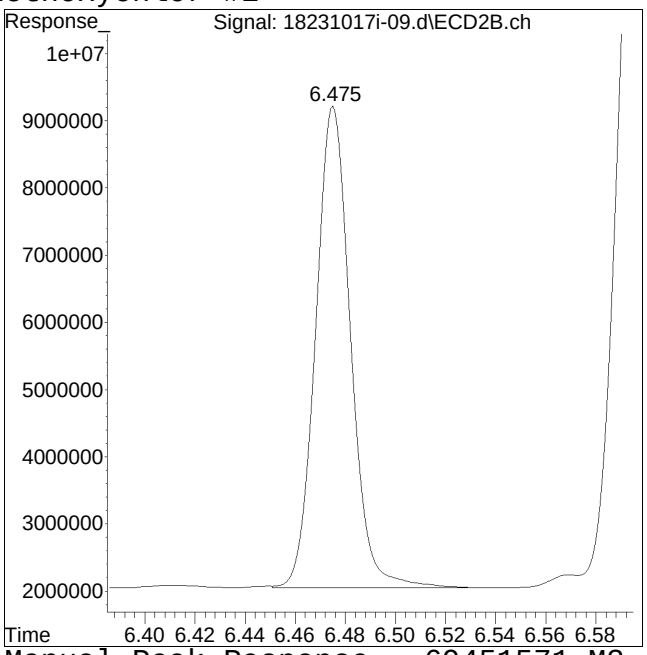
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #61: Methoxychlor #2



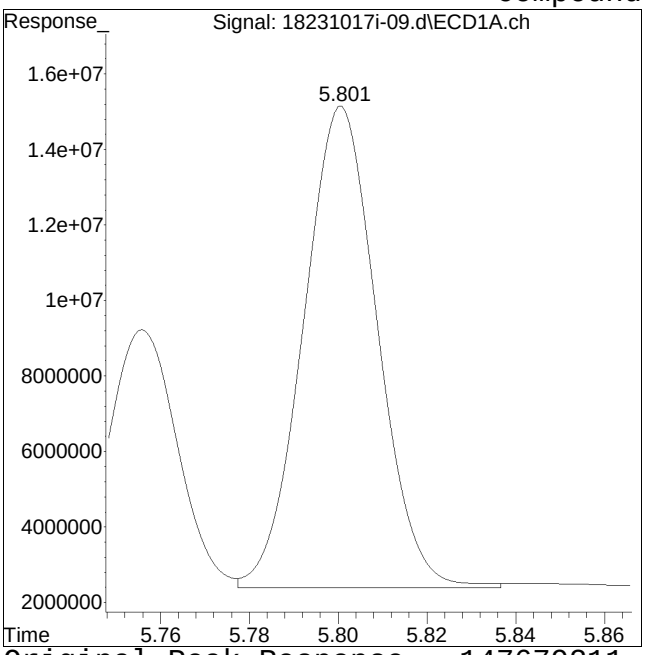


Original Peak Response = 69589888 Manual Peak Response = 69451571 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

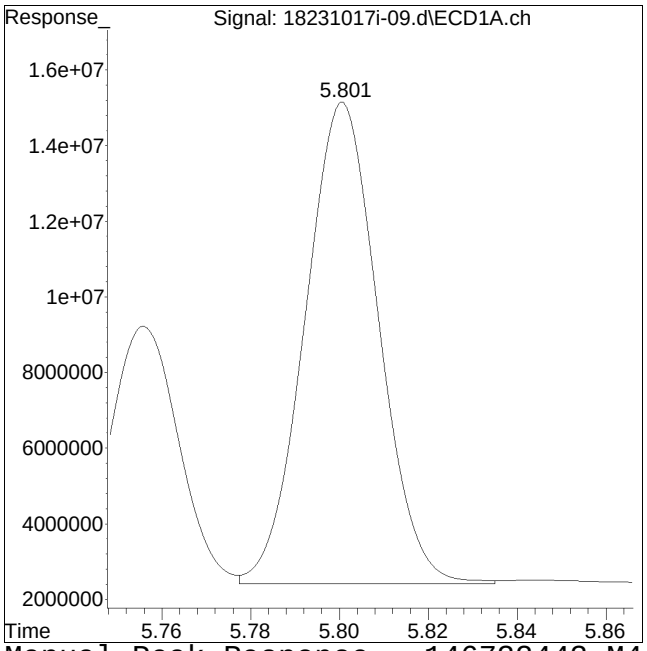
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #24: Mirex



Original Peak Response = 147679211

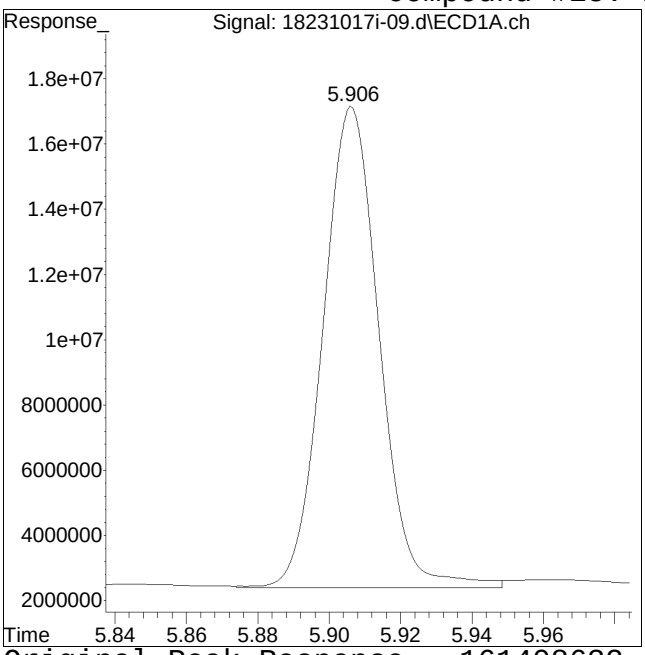


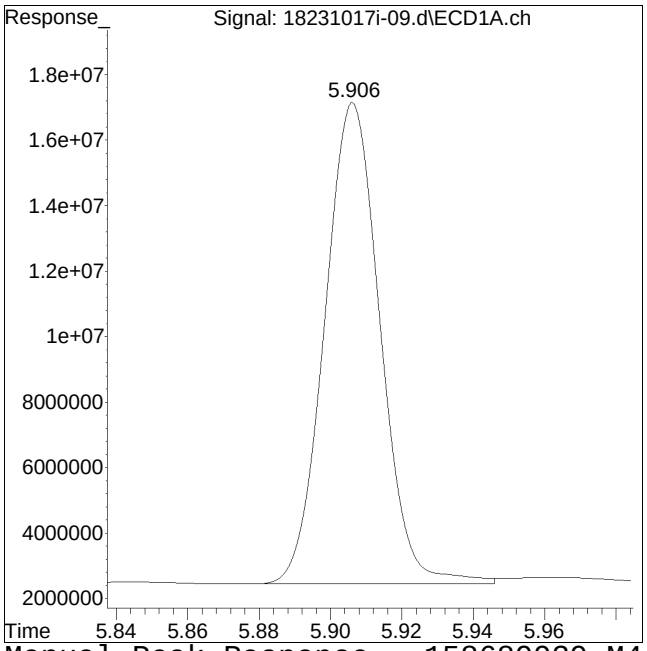
Manual Peak Response = 146732443 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #25: Endosulfan Sulfate



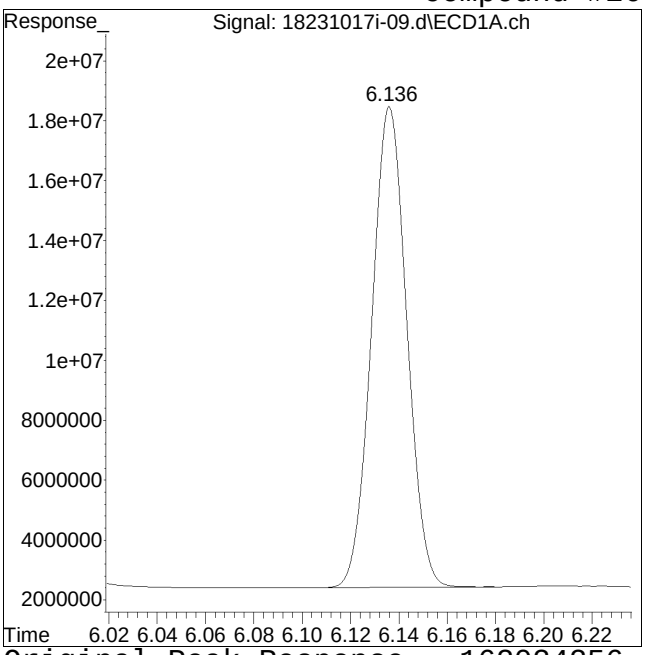


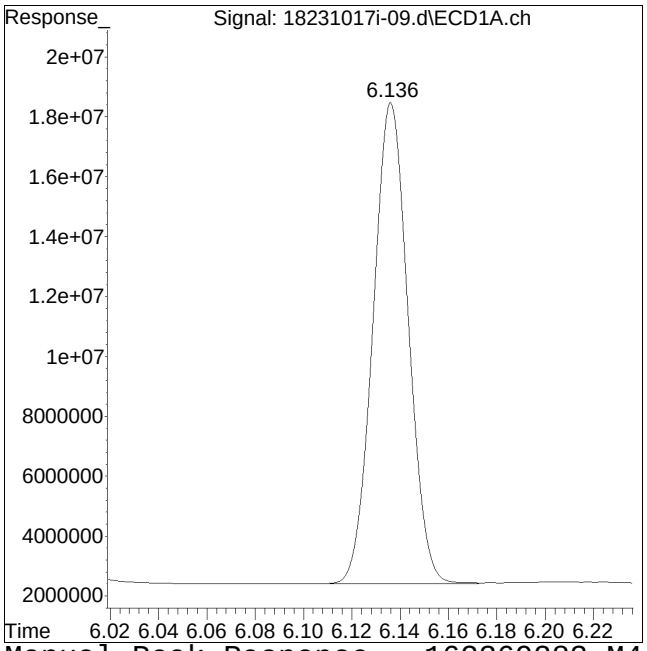
Original Peak Response = 161408632 Manual Peak Response = 158689939 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #26: Endrin Ketone



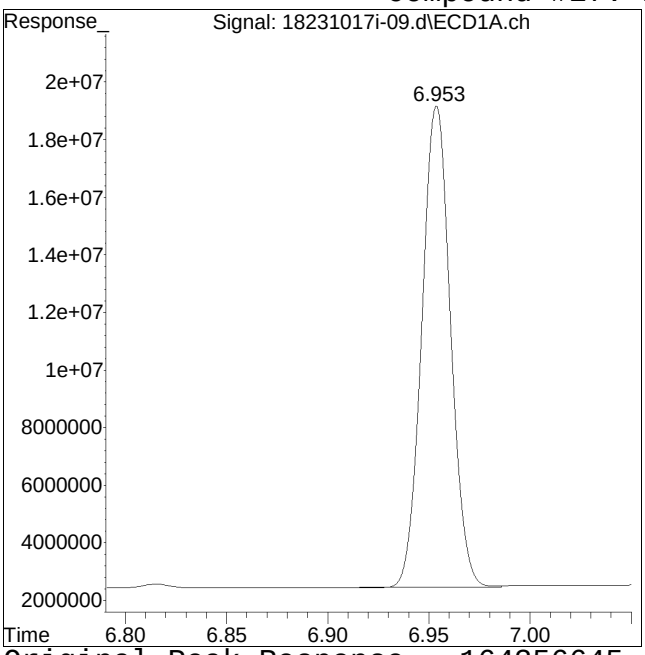


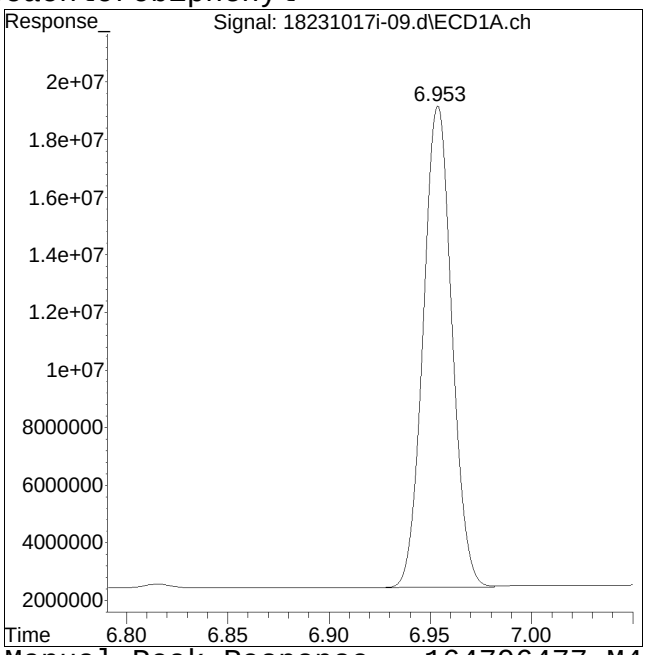
Original Peak Response = 162024256 Manual Peak Response = 162369283 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-09.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:22 pm Instrument : Pest 18
Sample : il8pest,42e,,pp 11224 L0.0Quant Date : 10/19/2023 8:45 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 164356645 Manual Peak Response = 164706477 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:34 pm
Operator : PEST18:ejl
Sample : il9pest,42e,,pp 11223 L0.1
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 08:57:00 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 08:51:02 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.721	1.770	81028629	70828527	25.000M3	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.155	2.319	327.7E6	291.4E6	95.026M3	95.253M3
	Spiked Amount	50.000	Range 30 - 150		Recovery =	190.05%#	190.51%#
27) s	Decachlorobi	6.953	7.525	331.5E6	258.0E6	102.457M4	102.921
	Spiked Amount	50.000	Range 30 - 150		Recovery =	204.91%#	205.84%#
	Target Compounds						
3)	Hexachlorobe	2.397	2.657	347.5E6	315.7E6	94.028M3	94.160
4)	alpha-BHC	2.510	2.762	446.3E6	397.1E6	96.877M4	97.198
5)	gamma-BHC (l	2.730	3.053	405.9E6	361.6E6	97.068M3	97.387
6)	beta-BHC	2.797	3.128	181.5E6	162.7E6	93.922M4	94.664
7)	delta-BHC	2.934	3.396	415.2E6	368.5E6	97.292M4	97.446
8)	Heptachlor	3.096	3.448	377.5E6	345.2E6	97.989M3	97.859
9)	Aldrin	3.346	3.764	382.4E6	344.4E6	99.363	99.136
10)	Alachlor	3.484	3.665	61506588	48822568	93.907M4	93.740M3
11)	Chlorpyrifos	3.580	4.017	179.1E6	165.5E6	93.935M4	94.111
12)	Heptachlor E	3.907	4.379	359.1E6	325.4E6	97.783M3	98.528
13)	gamma-Chlord	4.035	4.599	328.2E6	294.6E6	98.202M4	99.190
14)	alpha-Chlord	4.170	4.772	370.2E6	329.5E6	98.739M3	98.736
15)	4,4'-DDE	4.277	4.993	381.2E6	344.1E6	100.749M4	101.246M4
16)	Endosulfan I	4.305	4.834	343.6E6	310.5E6	99.354M3	98.838M4
17)	Dieldrin	4.569	5.146	365.0E6	322.4E6	99.982	100.412M3
18)	Endrin	4.825	5.459	380.1E6	325.9E6	99.947M3	100.214
19)	4,4'-DDD	4.952	5.601	310.8E6	271.4E6	102.211M4	101.934M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:34 pm
Operator : PEST18:ejl
Sample : il9pest,42e,,pp 11223 L0.1
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 08:57:00 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 08:51:02 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	5.077	5.670	326.1E6	284.4E6	98.902M4	98.678M4
21)	4,4'-DDT	5.252	5.888	291.1E6	262.7E6	108.913M3	106.315M4
22)	Endrin Aldeh	5.506	5.980	283.4E6	244.0E6	101.848M3	100.579
23)	Methoxychlor	5.756	6.475	157.9E6	142.3E6	107.480M4	104.712M3
24)	Mirex	5.800	6.596	283.6E6	231.0E6	98.376M3	97.524
25)	Endosulfan S	5.906	6.218	313.5E6	262.0E6	100.583M4	99.053
26)	Endrin Keton	6.136	6.636	329.2E6	286.2E6	103.215M4	102.033
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:34 pm
Operator : PEST18:ejl
Sample : il9pest,42e,,pp 11223 L0.1
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 08:57:00 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 08:51:02 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

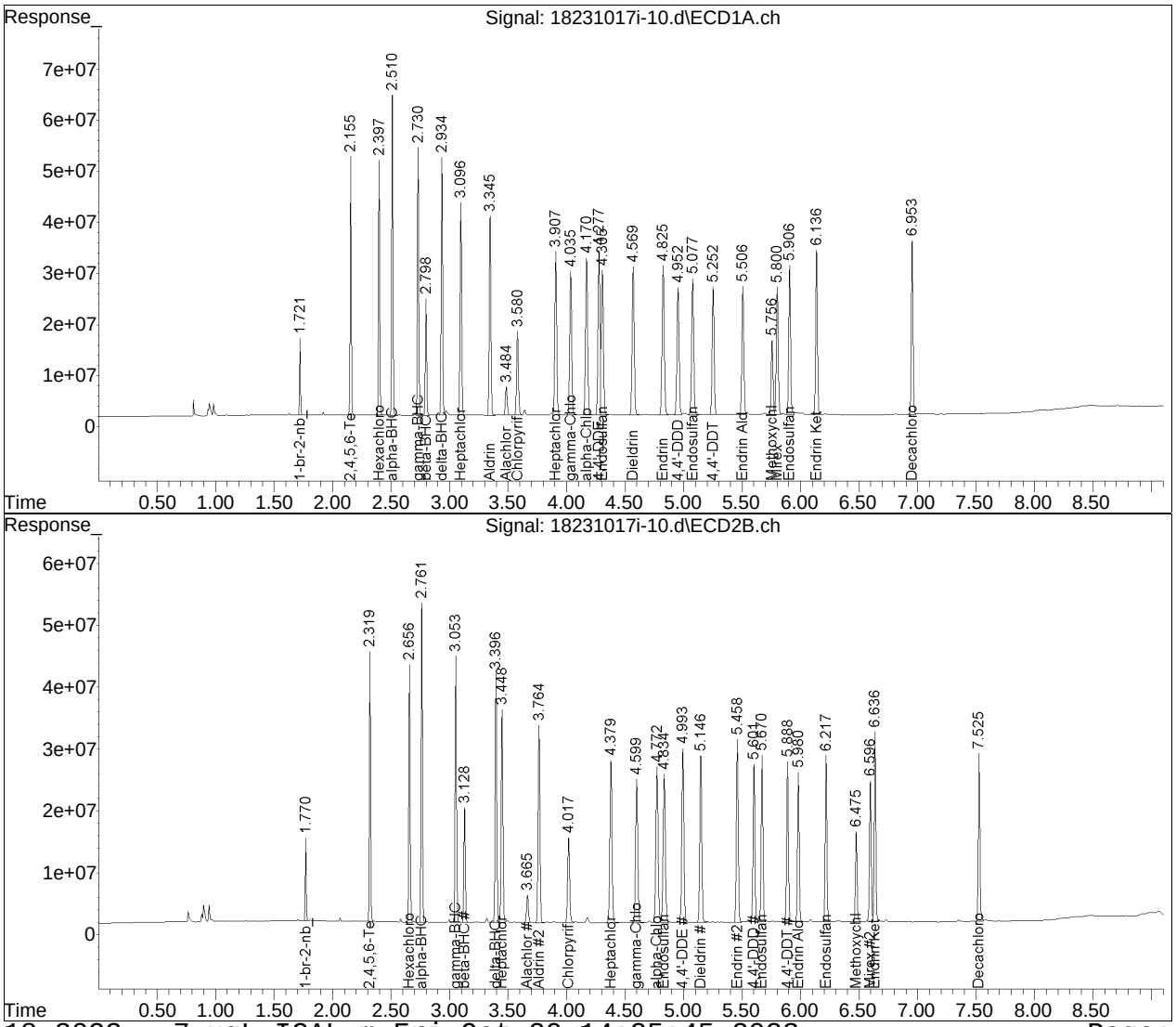
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:34 pm
Operator : PEST18:ejl
Sample : il9pest,42e,,pp 11223 L0.1
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 08:57:00 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 08:51:02 2023
Response via : Initial Calibration
Integrator: ChemStation

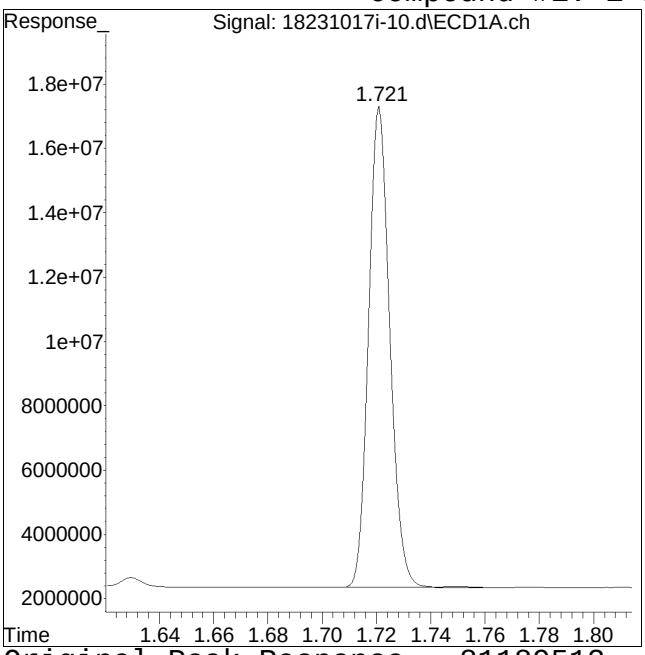
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

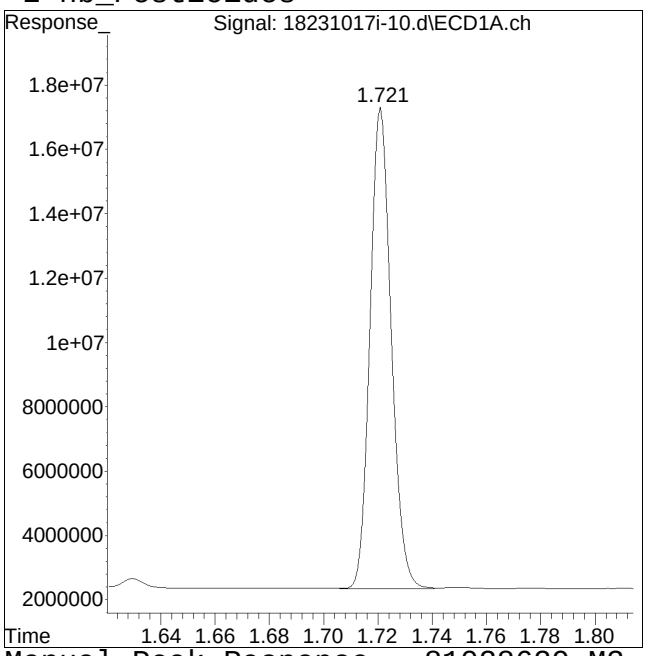


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #1: 1-br-2-nb_Pesticides



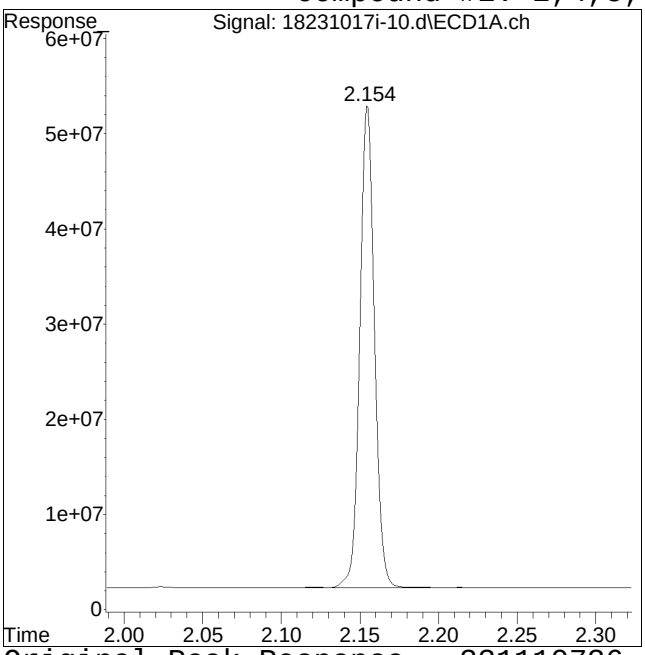


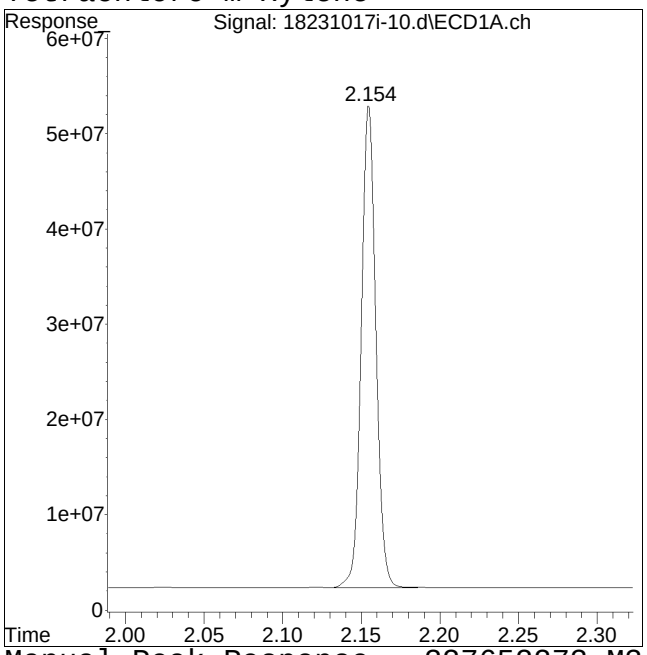
Original Peak Response = 81189512 Manual Peak Response = 81028629 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



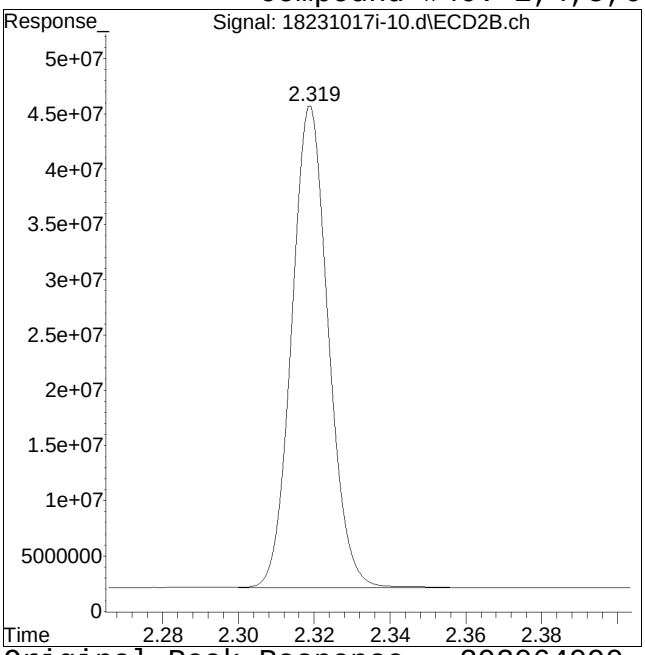


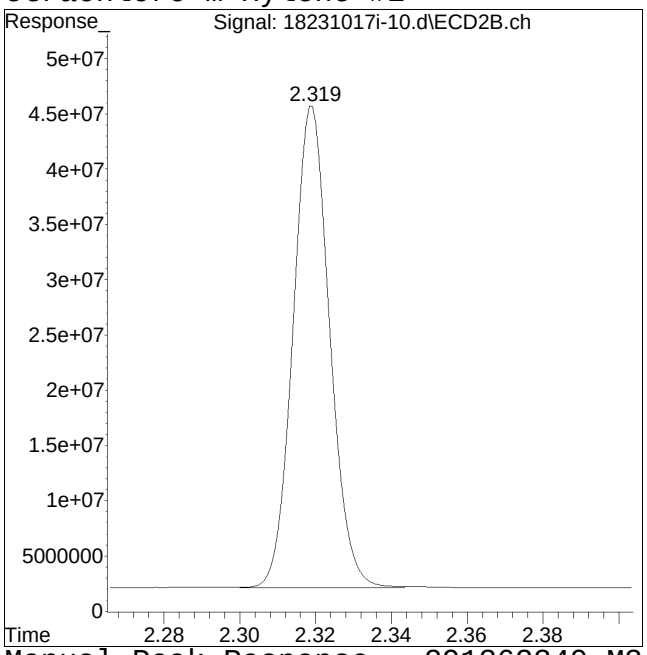
Original Peak Response = 331110736 Manual Peak Response = 327652273 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



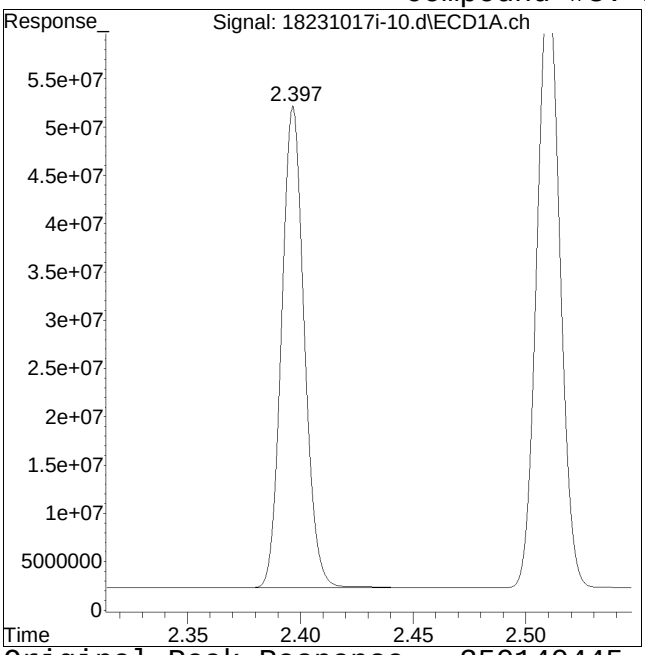


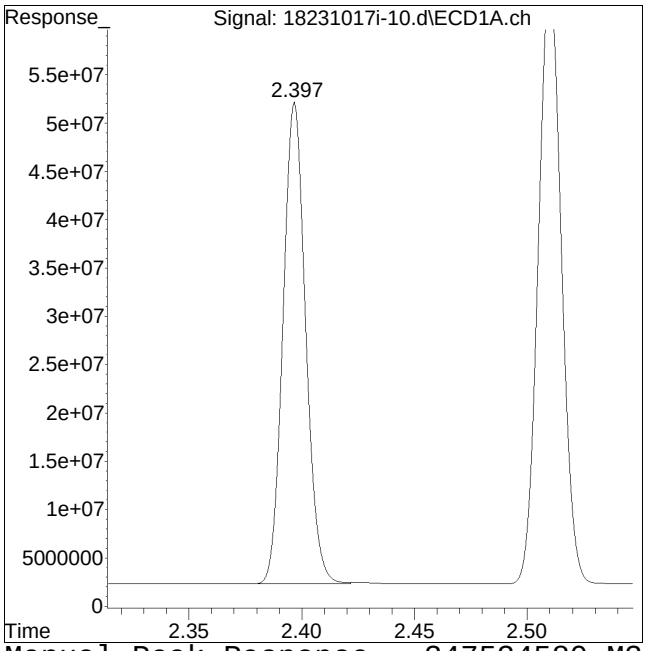
Original Peak Response = 292064990 Manual Peak Response = 291362340 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #3: Hexachlorobenzene



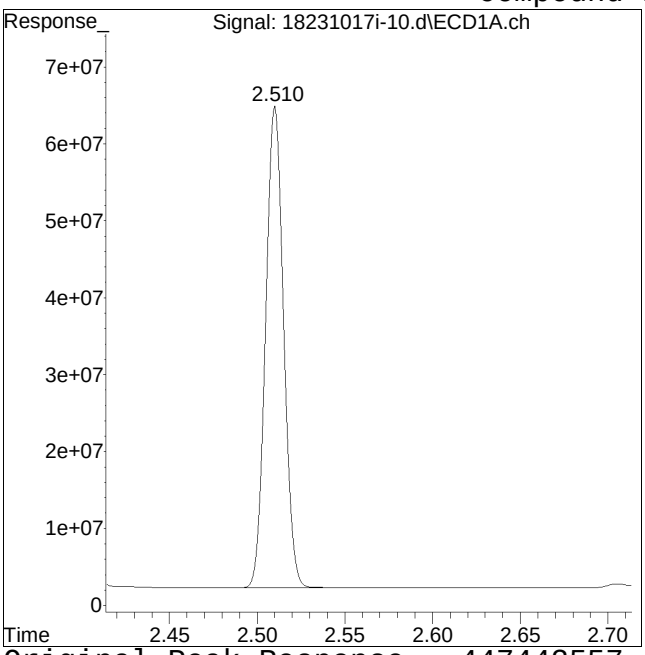


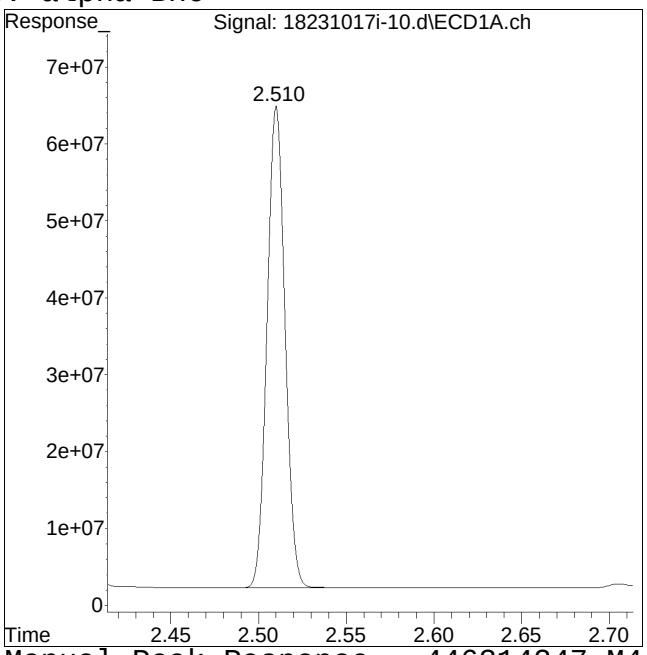
Original Peak Response = 350140445 Manual Peak Response = 347534580 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #4: alpha-BHC



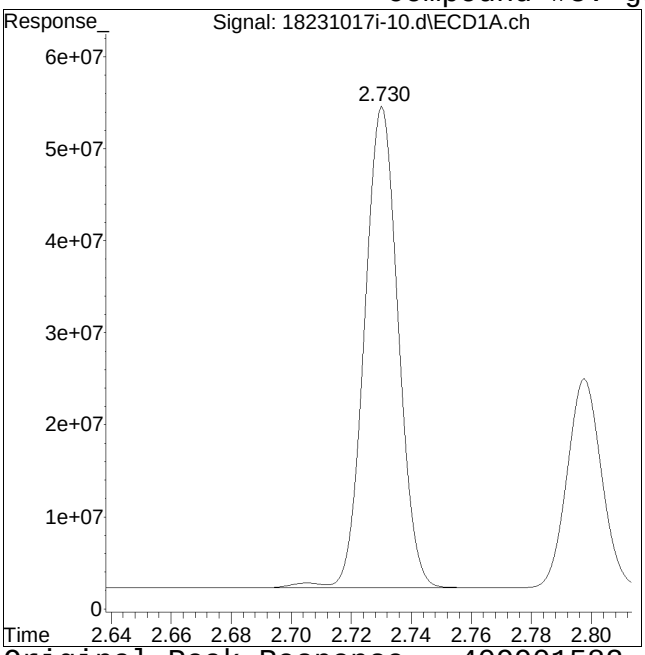


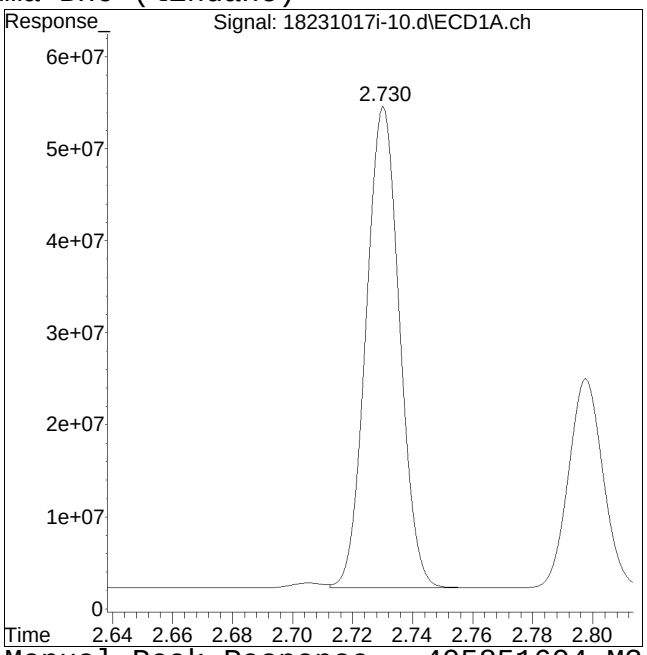
Original Peak Response = 447442557 Manual Peak Response = 446314247 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #5: gamma-BHC (lindane)



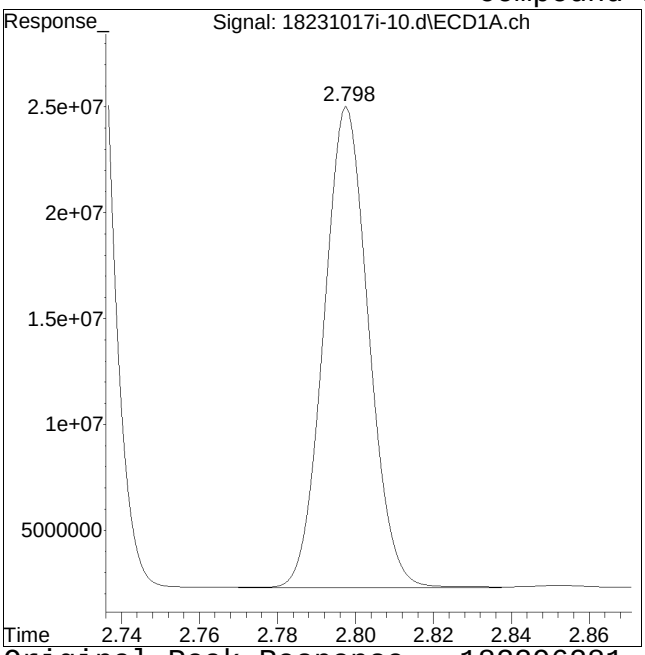


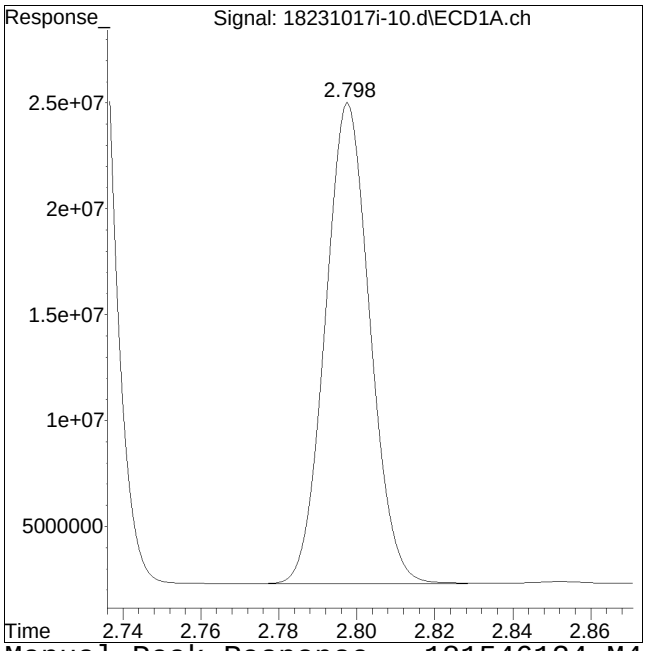
Original Peak Response = 409901582 Manual Peak Response = 405851604 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #6: beta-BHC



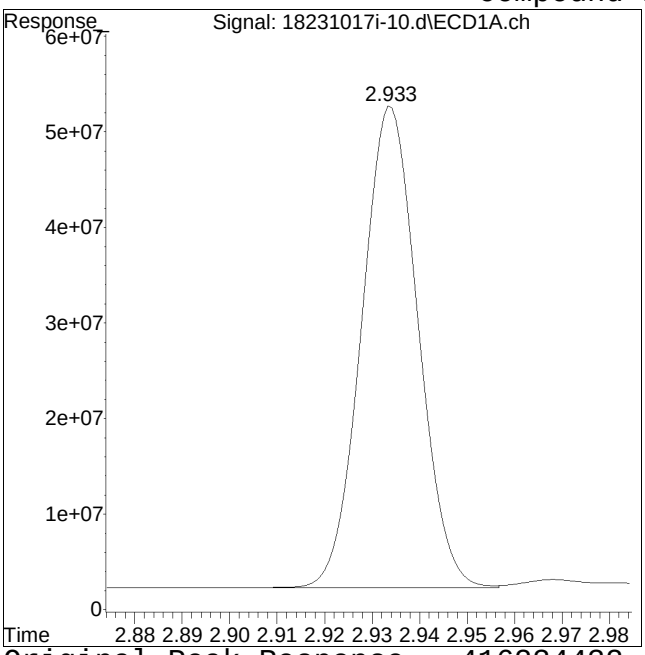


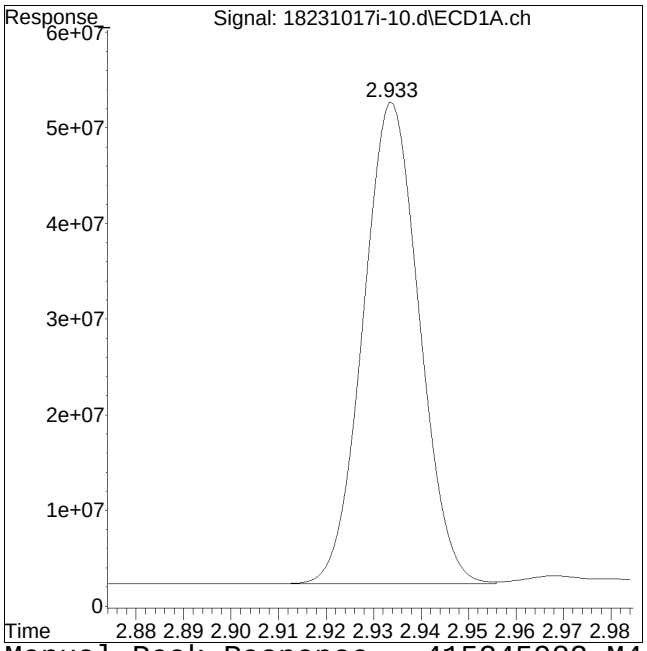
Original Peak Response = 182296281 Manual Peak Response = 181546124 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #7: delta-BHC



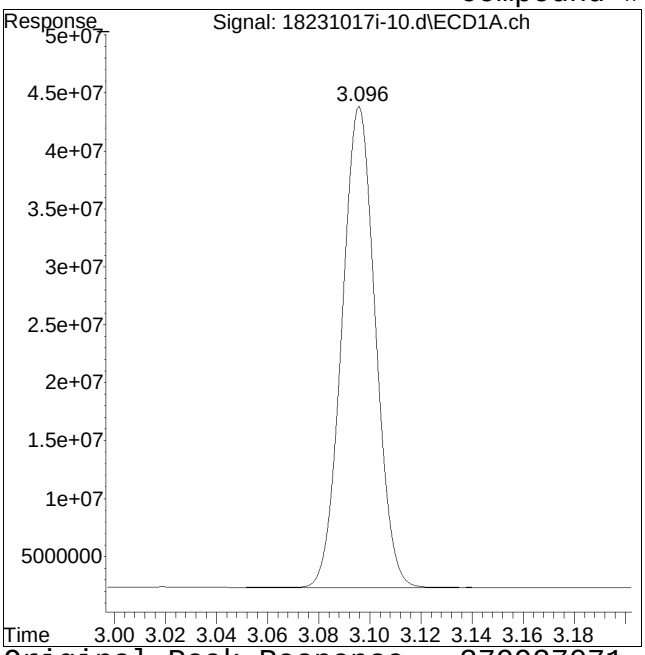


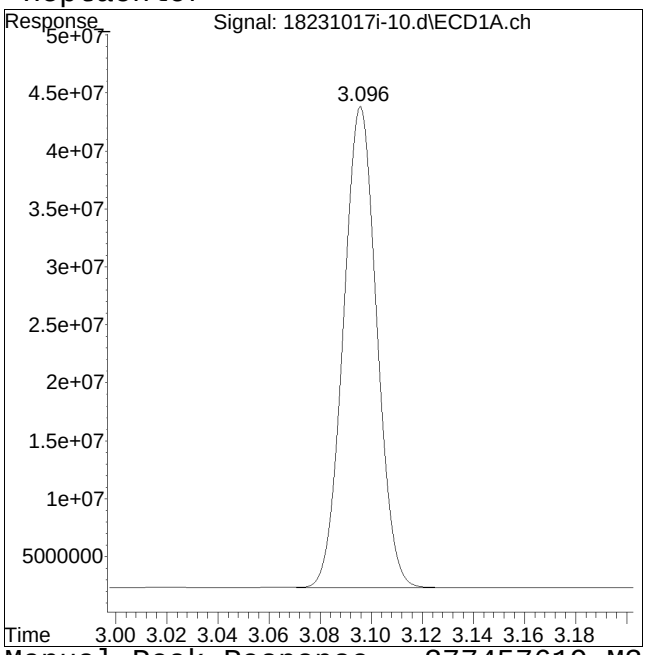
Original Peak Response = 416234432 Manual Peak Response = 415245982 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #8: Heptachlor



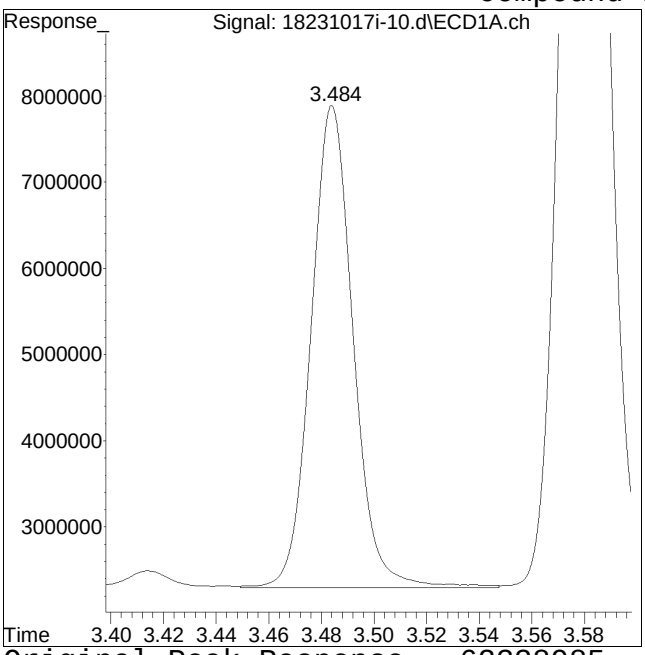


Original Peak Response = 379927071 Manual Peak Response = 377457619 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

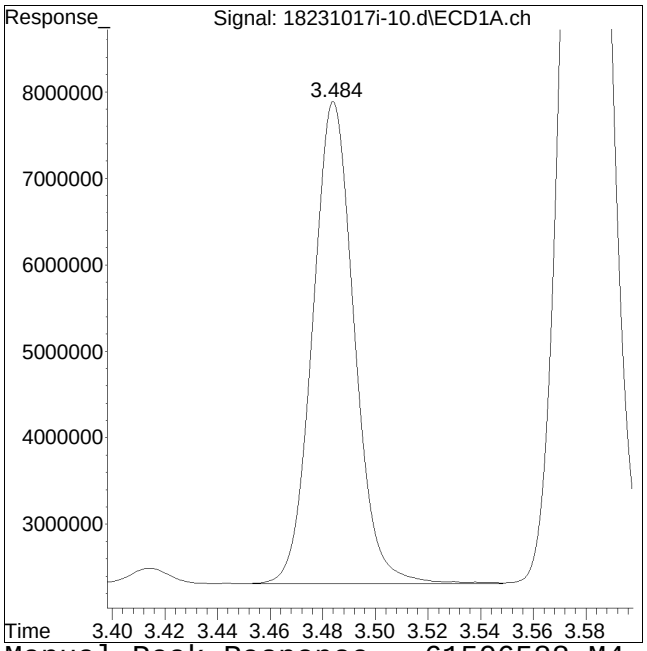
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #10: Alachlor



Original Peak Response = 62338985



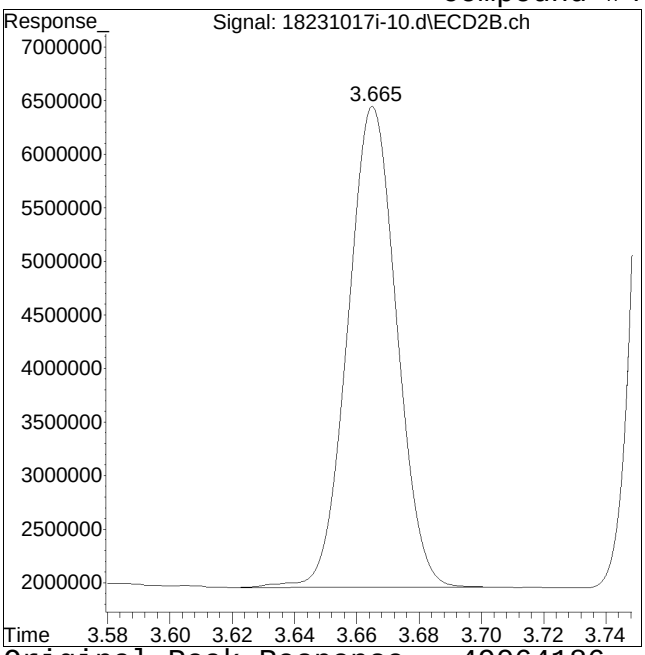
Manual Peak Response = 61506588 M4

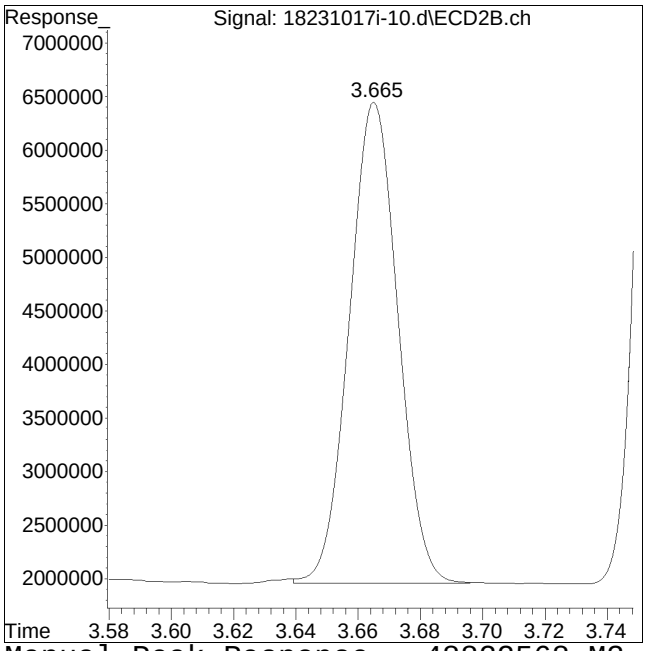
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #48: Alachlor #2



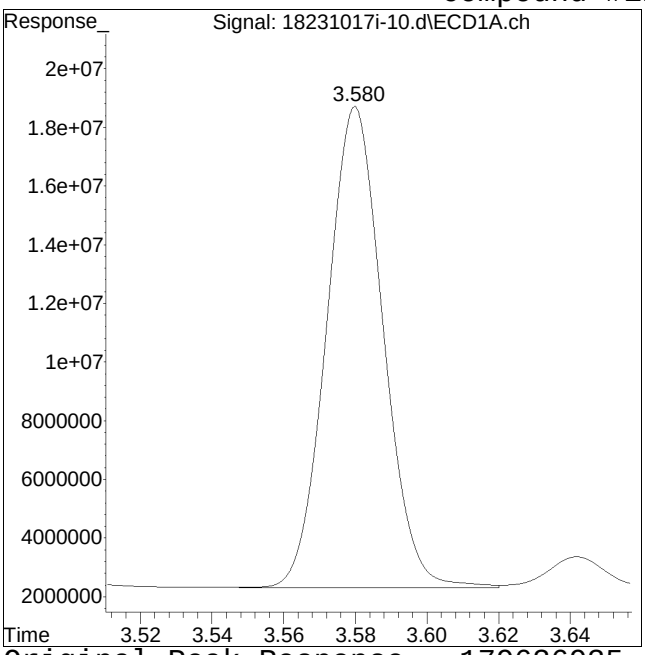


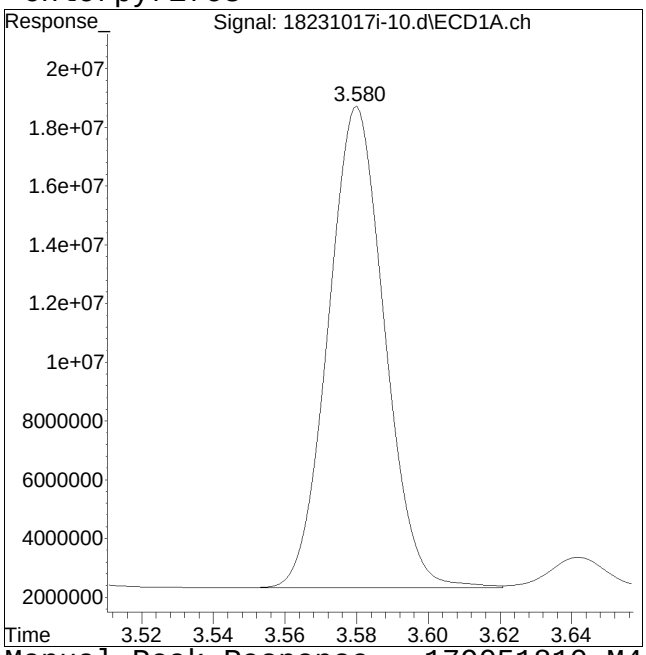
Original Peak Response = 49064186 Manual Peak Response = 48822568 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #11: Chlorpyrifos



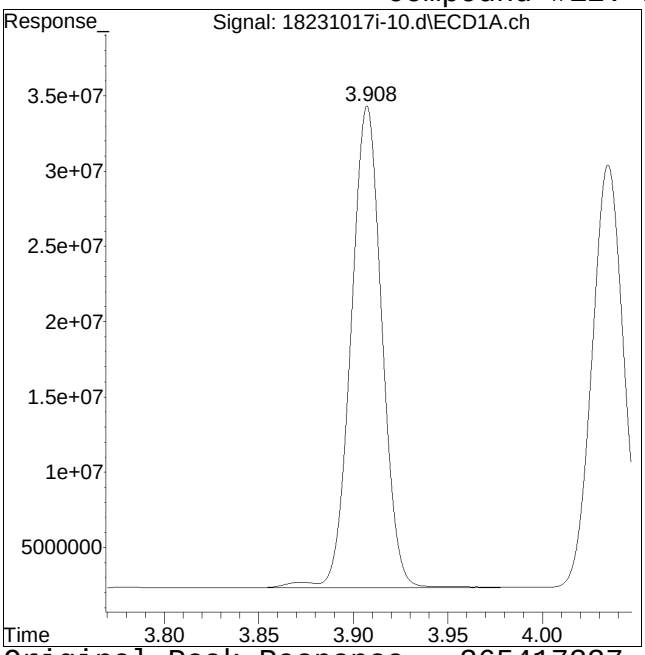


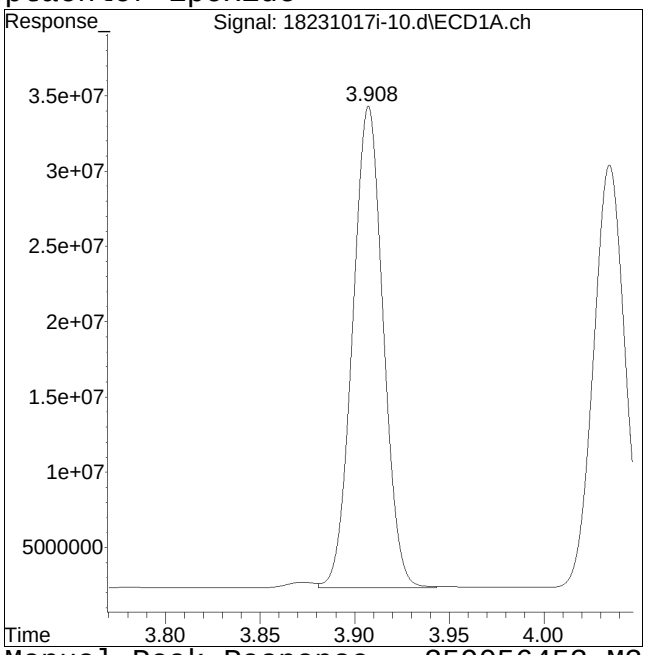
Original Peak Response = 179636935 Manual Peak Response = 179051810 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #12: Heptachlor Epoxide



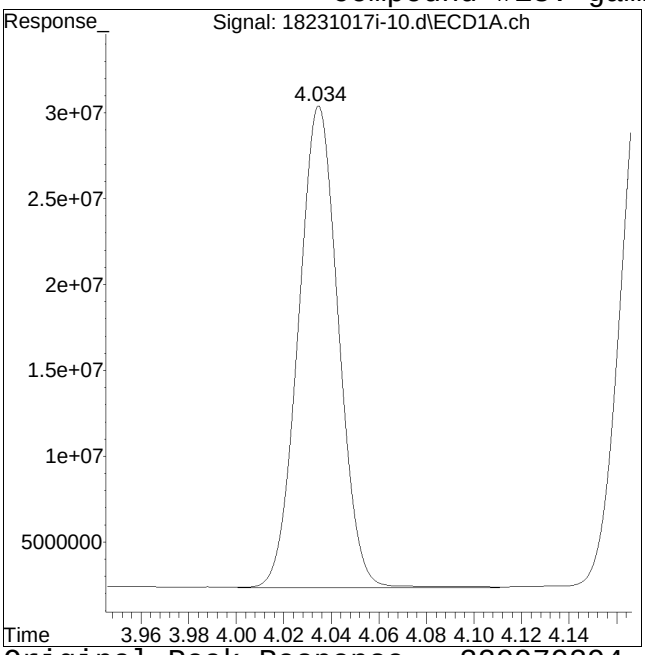


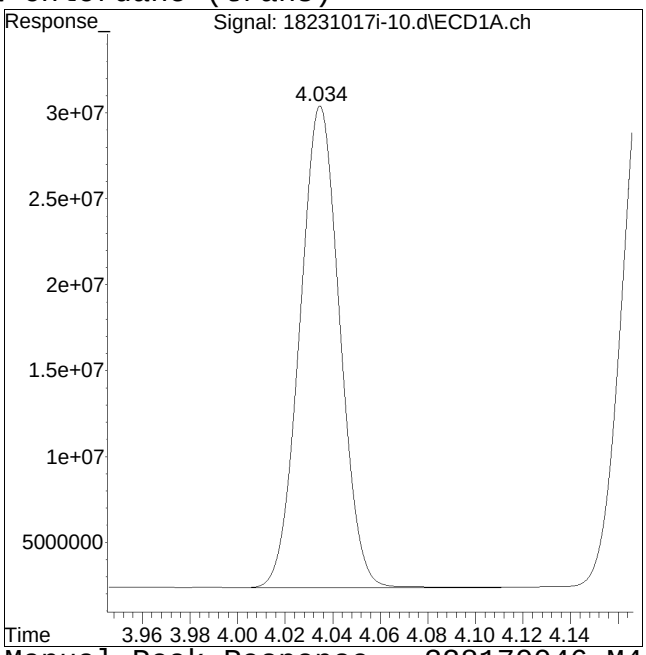
Original Peak Response = 365417337 Manual Peak Response = 359056453 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #13: gamma-Chlordane (trans)



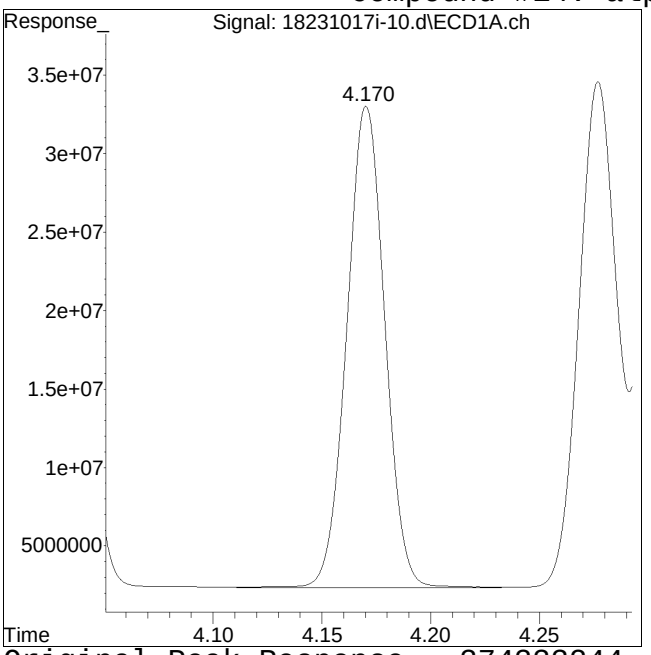


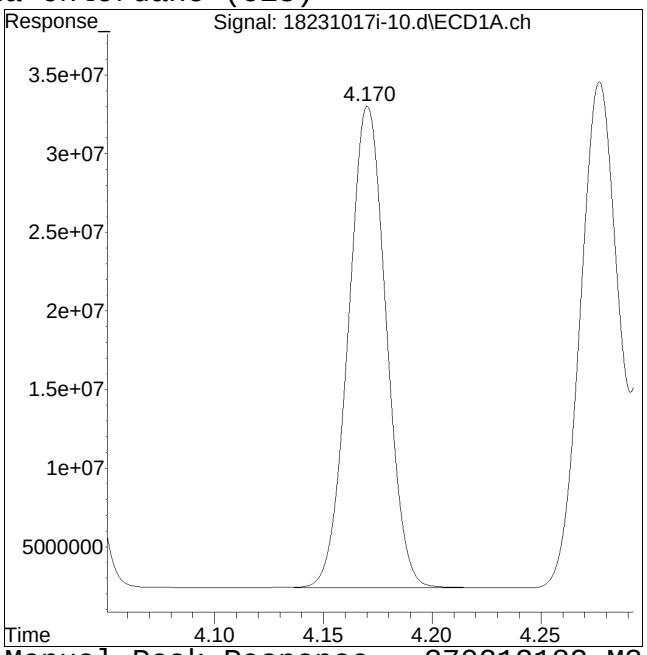
Original Peak Response = 329979394 Manual Peak Response = 328170046 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #14: alpha-Chlordane (cis)



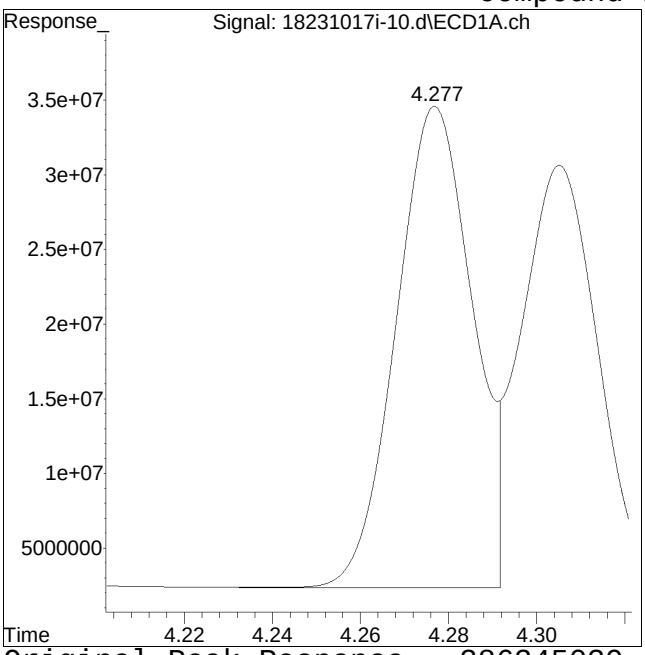


Original Peak Response = 374333244 Manual Peak Response = 370212182 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

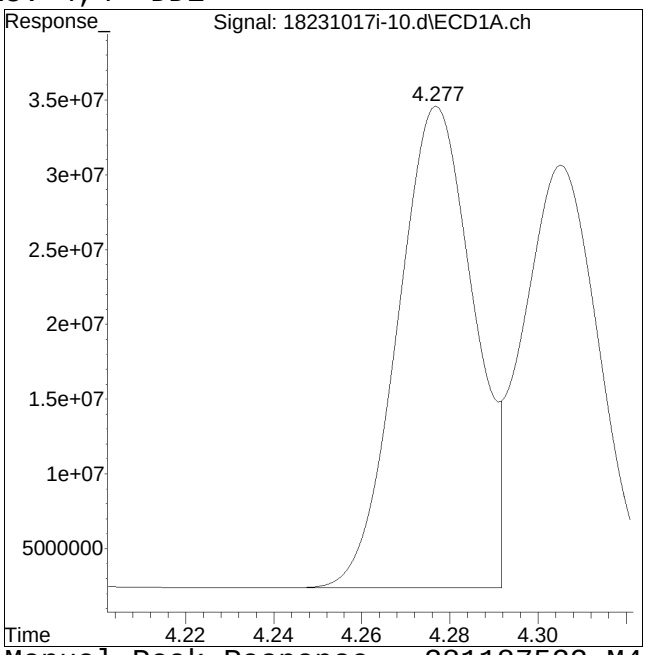
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #15: 4,4'-DDE



Original Peak Response = 386345039

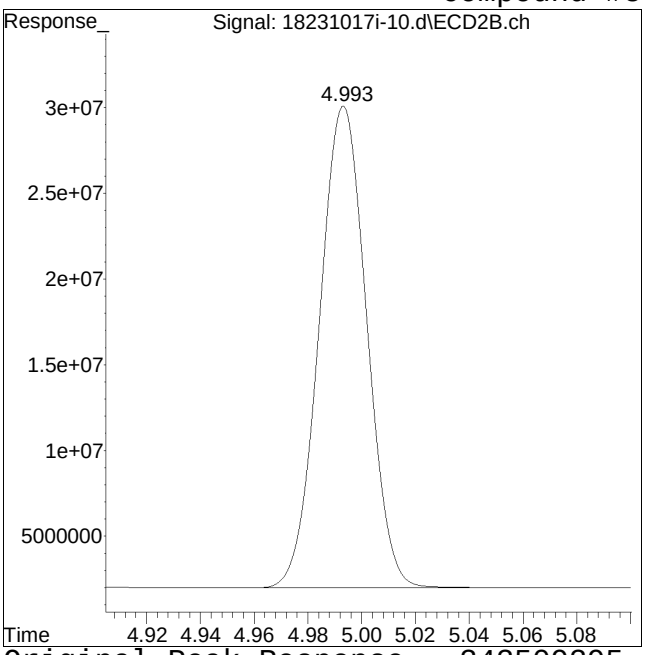


Manual Peak Response = 381187522 M4
M4 = Poor automated baseline construction.

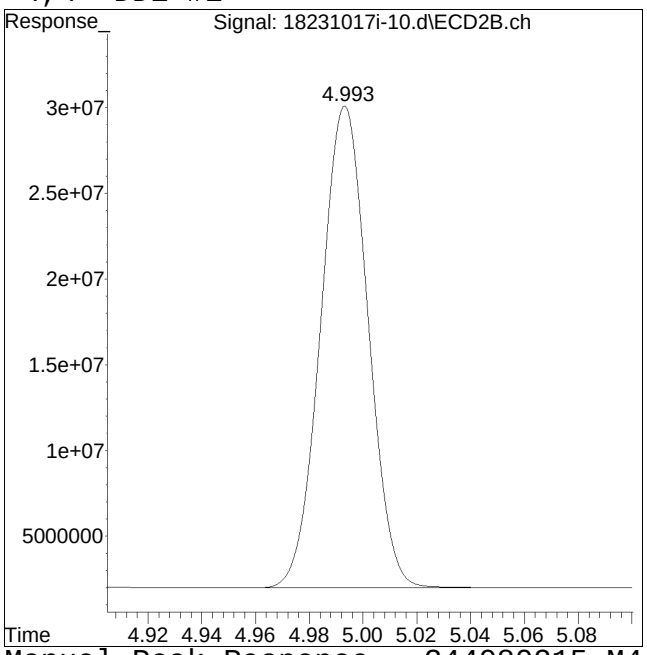
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 343509395

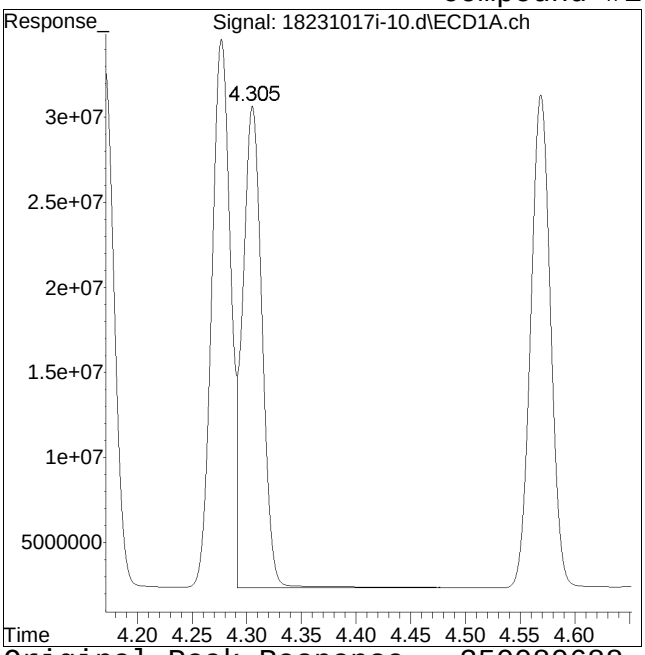


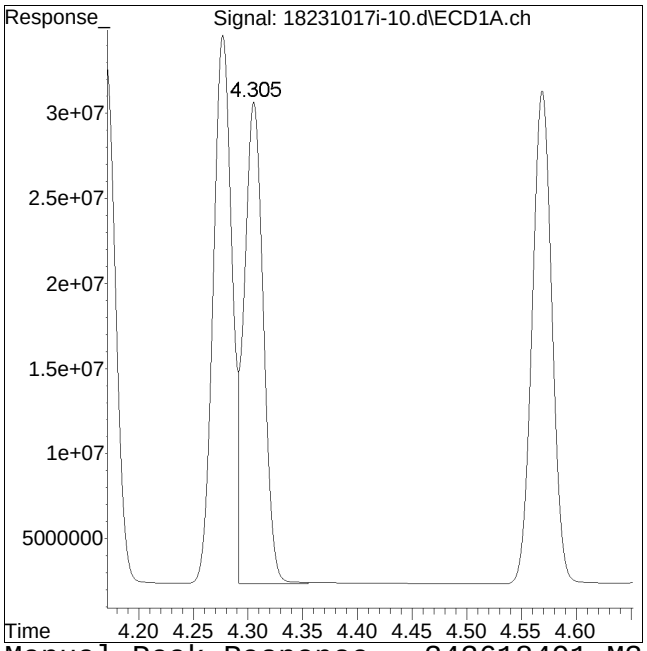
Manual Peak Response = 344080215 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #16: Endosulfan I



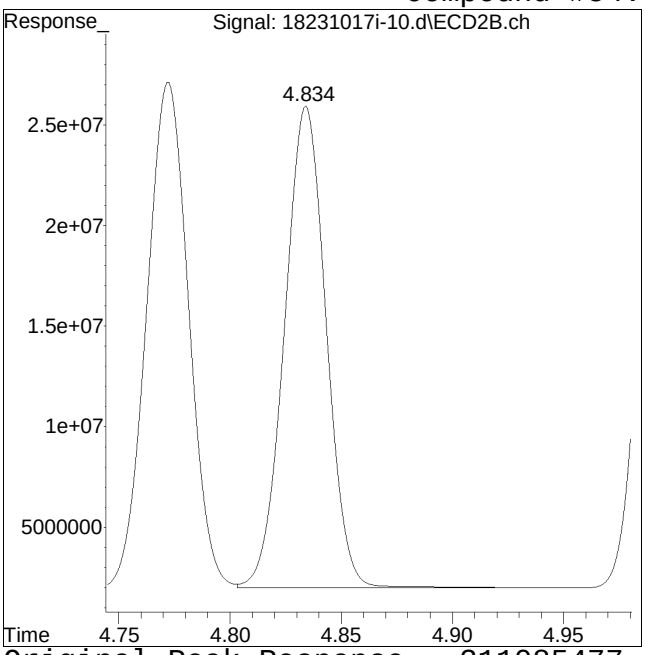


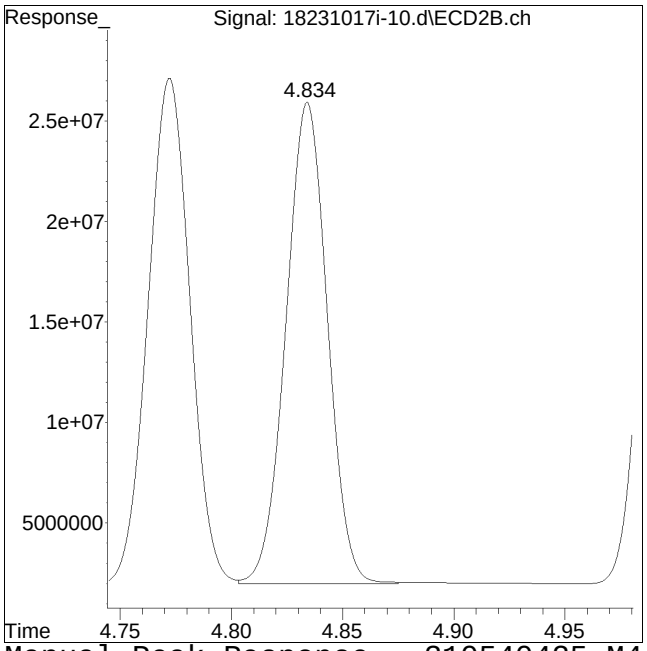
Original Peak Response = 350080688 Manual Peak Response = 343618491 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #54: Endosulfan I #2



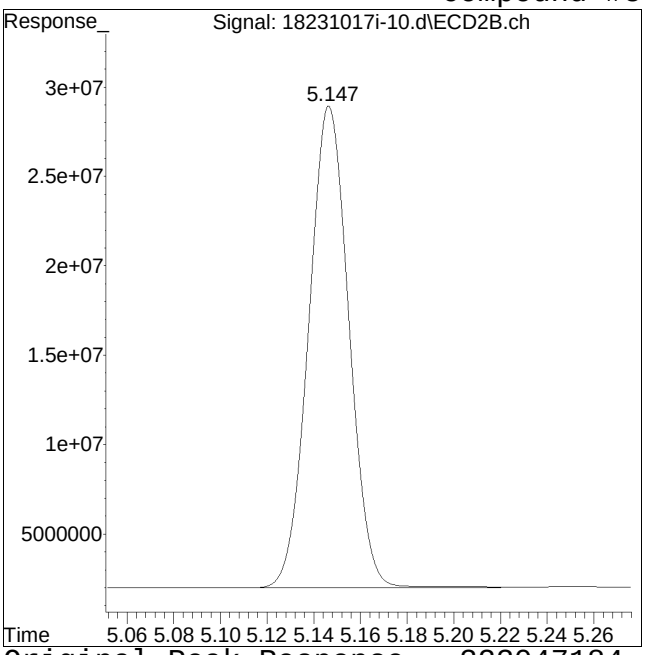


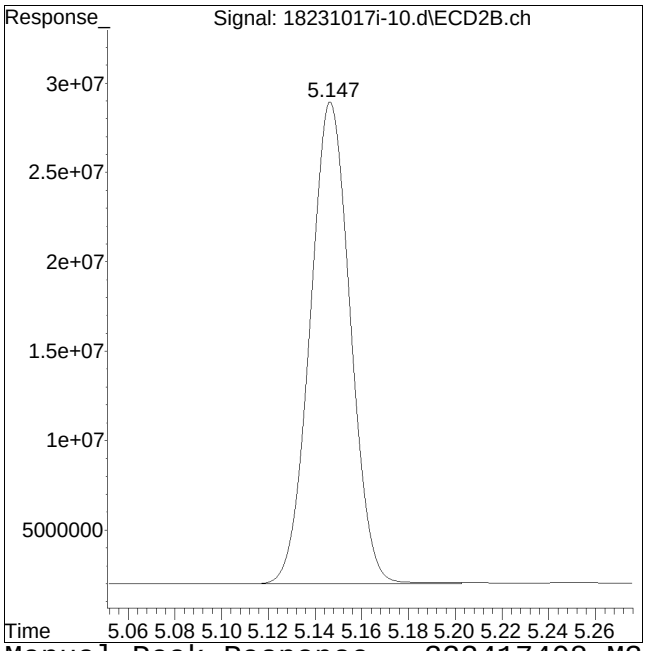
Original Peak Response = 311085477 Manual Peak Response = 310540425 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #55: Dieldrin #2



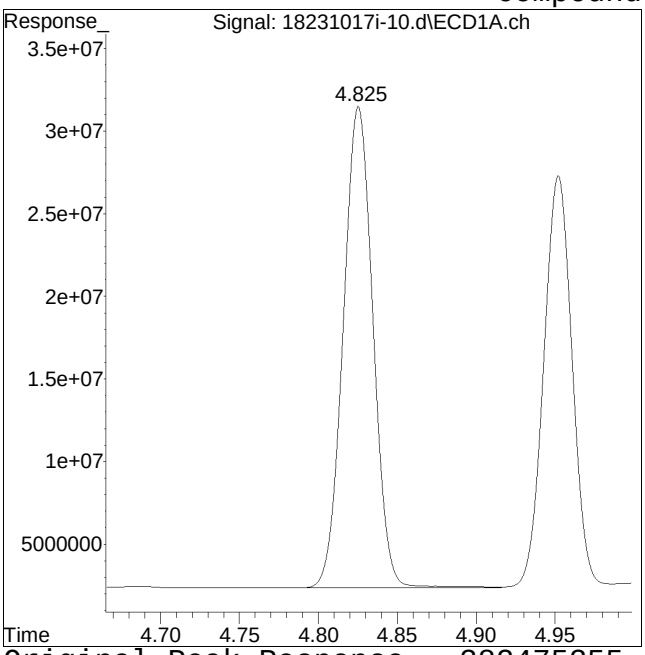


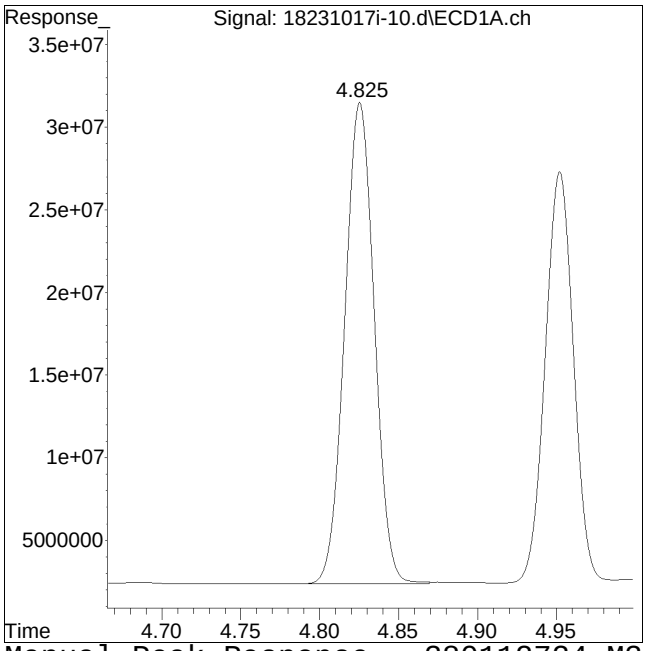
Original Peak Response = 323047184 Manual Peak Response = 322417408 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #18: Endrin



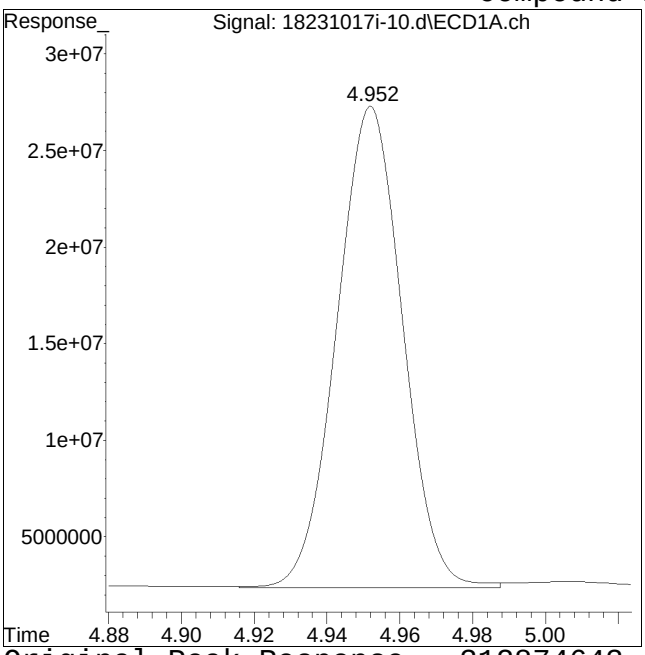


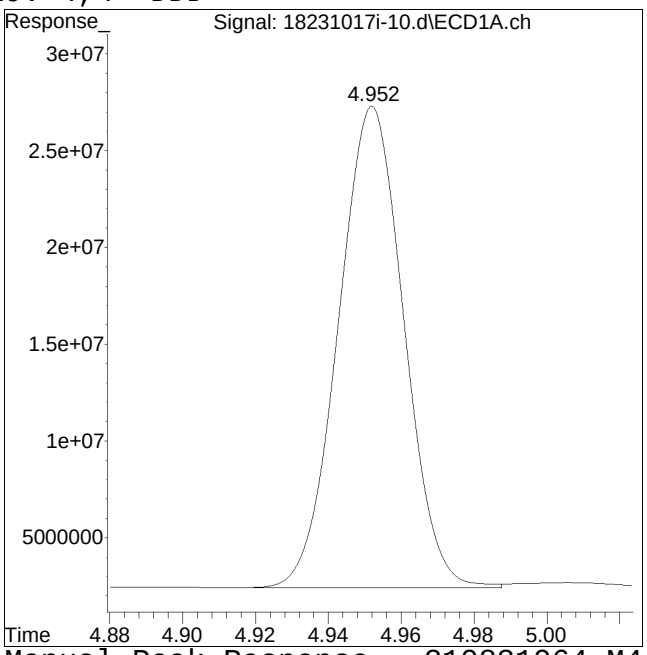
Original Peak Response = 382475355 Manual Peak Response = 380112724 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #19: 4,4'-DDD



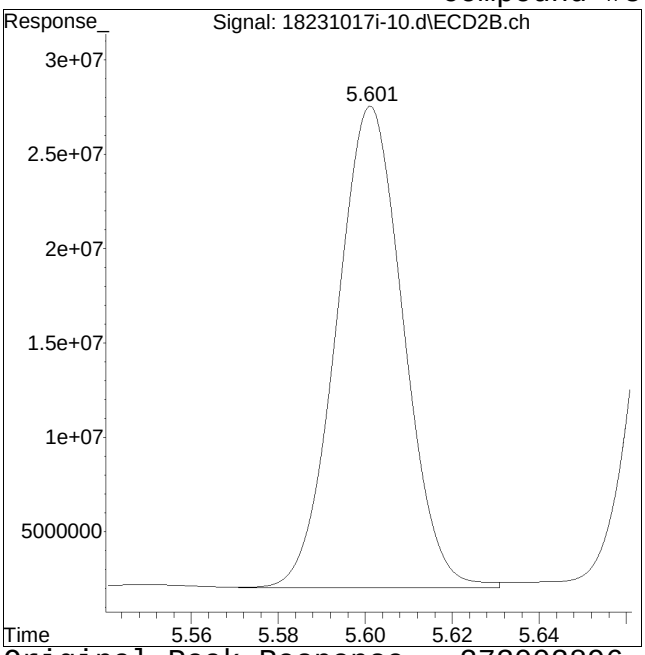


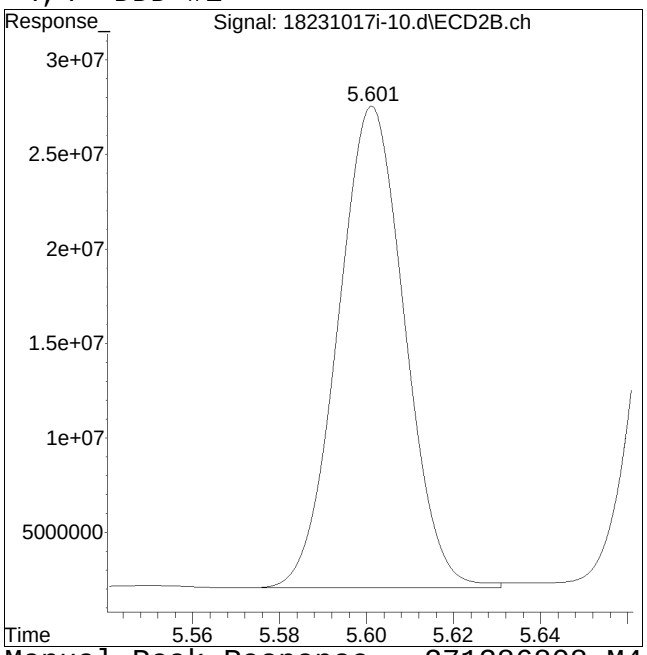
Original Peak Response = 312874643 Manual Peak Response = 310831964 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #57: 4,4'-DDD #2



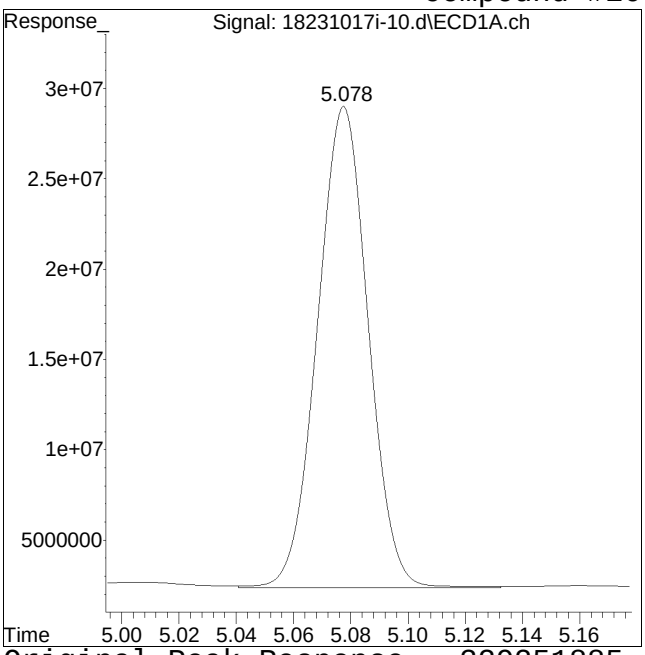


Original Peak Response = 273002896 Manual Peak Response = 271386808 M4
M4 = Poor automated baseline construction.

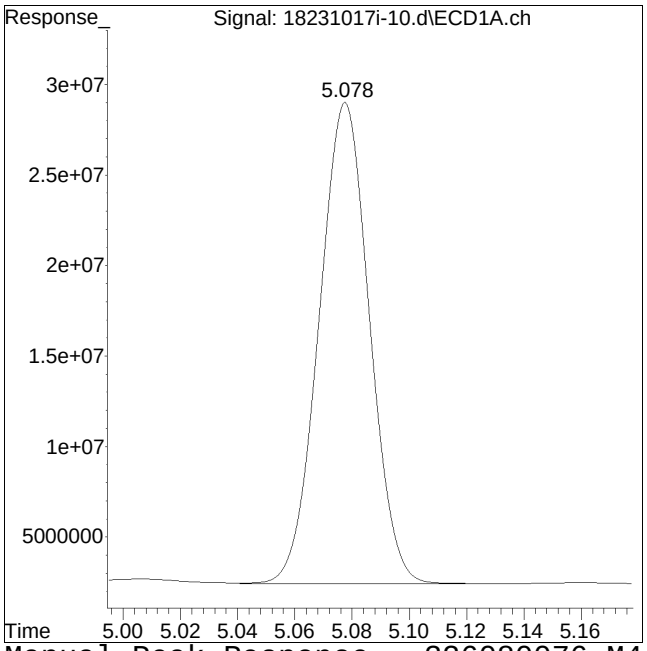
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #20: Endosulfan II



Original Peak Response = 329251885



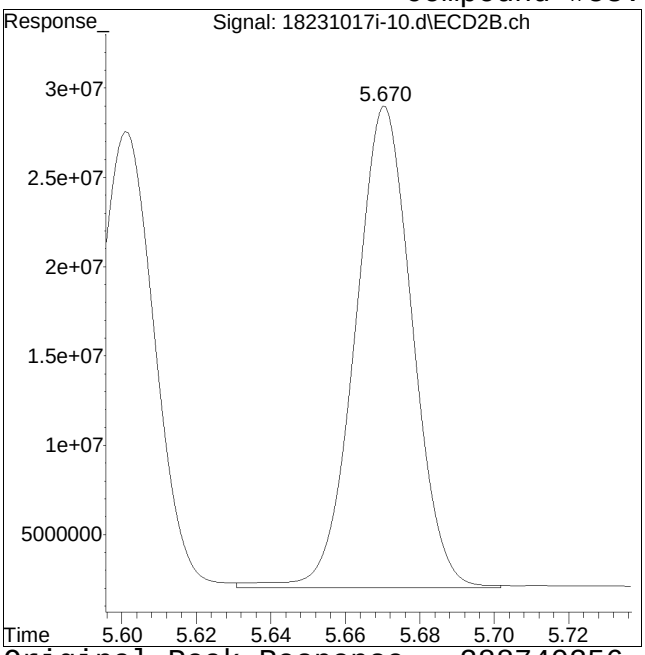
Manual Peak Response = 326080076 M4

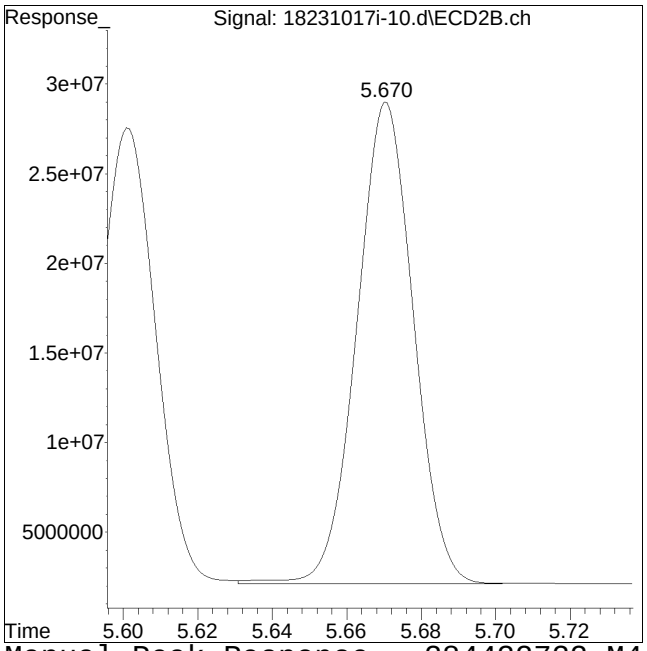
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #58: Endosulfan II #2



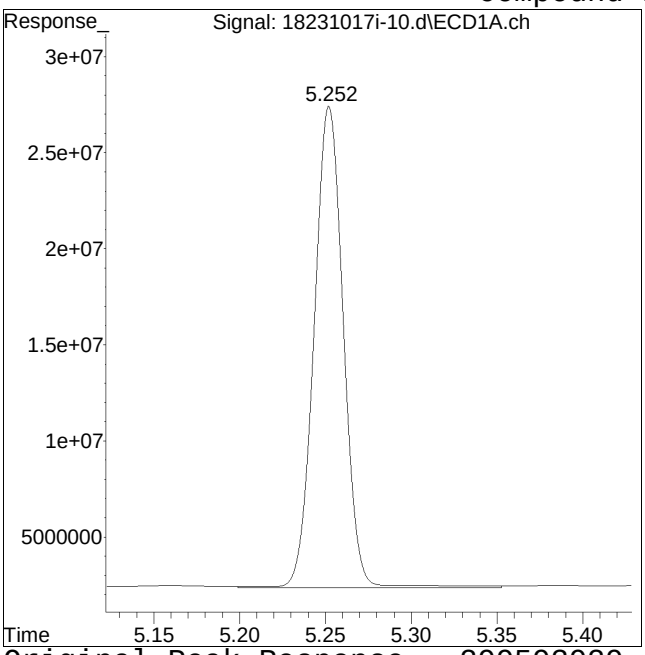


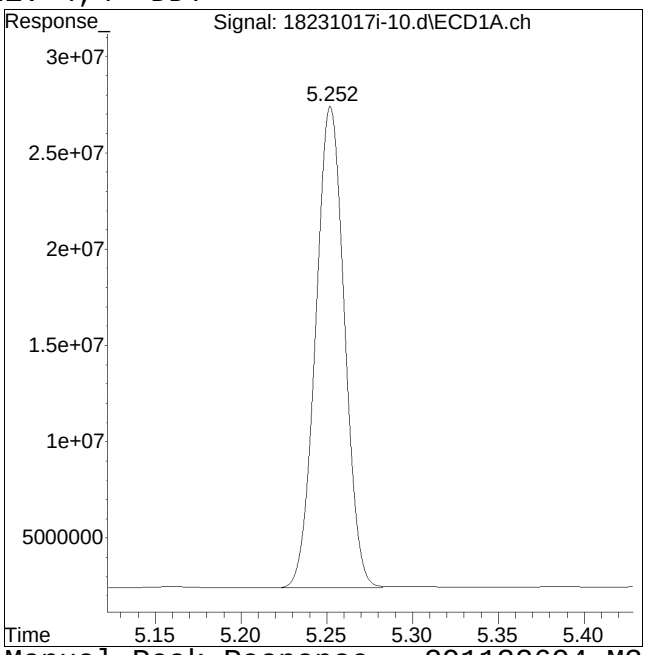
Original Peak Response = 288740356 Manual Peak Response = 284432722 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #21: 4,4'-DDT



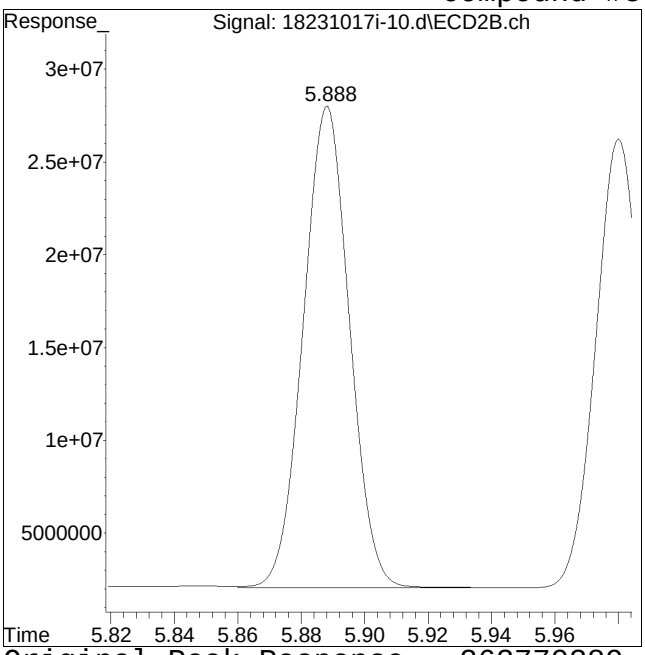


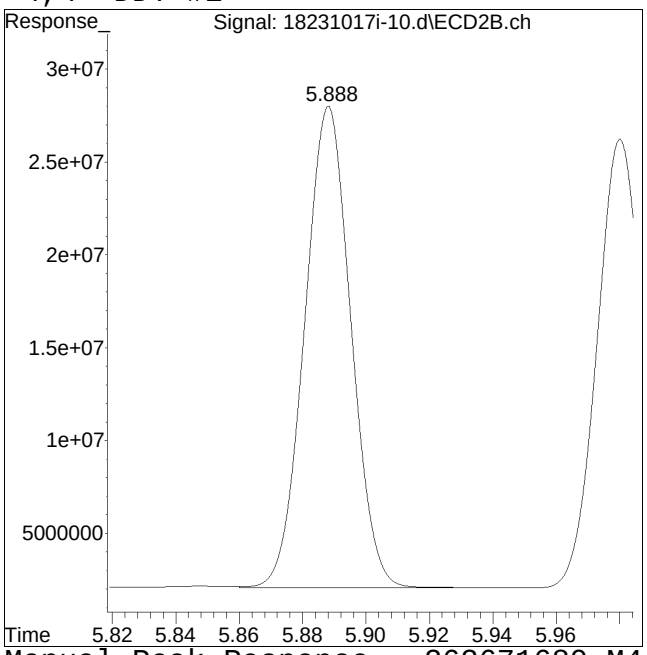
Original Peak Response = 299593929 Manual Peak Response = 291132694 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #59: 4,4'-DDT #2



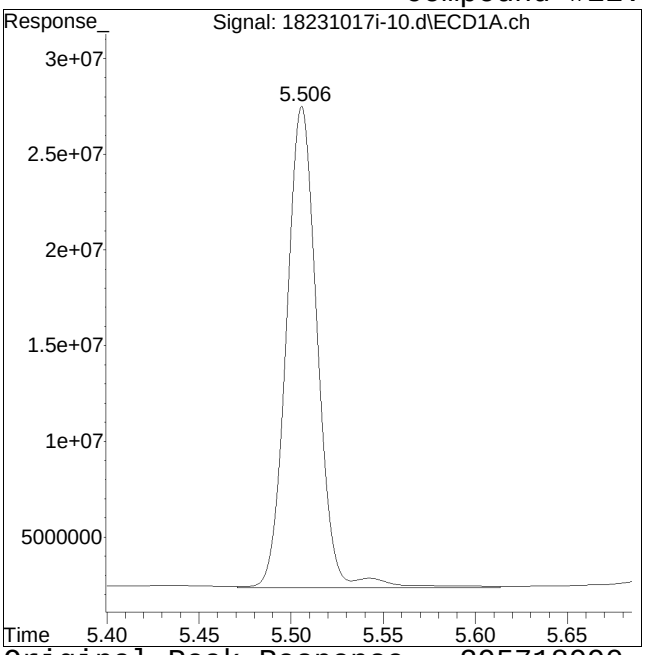


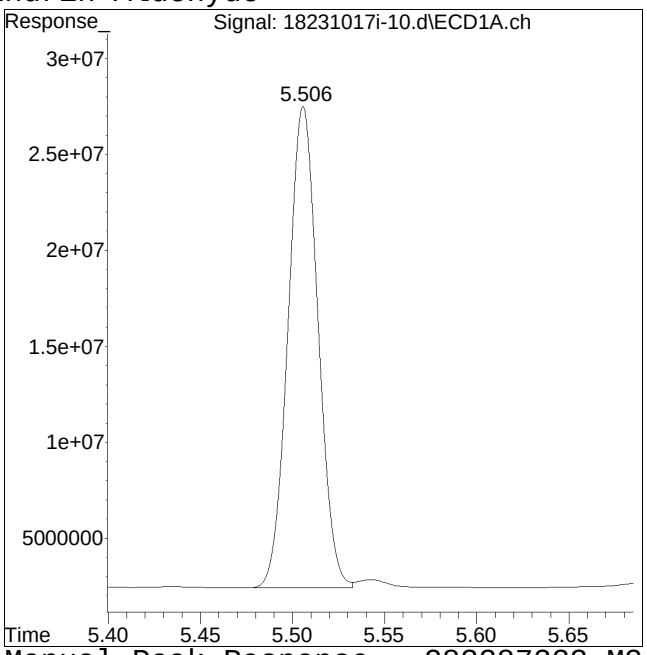
Original Peak Response = 263770389 Manual Peak Response = 262671680 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #22: Endrin Aldehyde



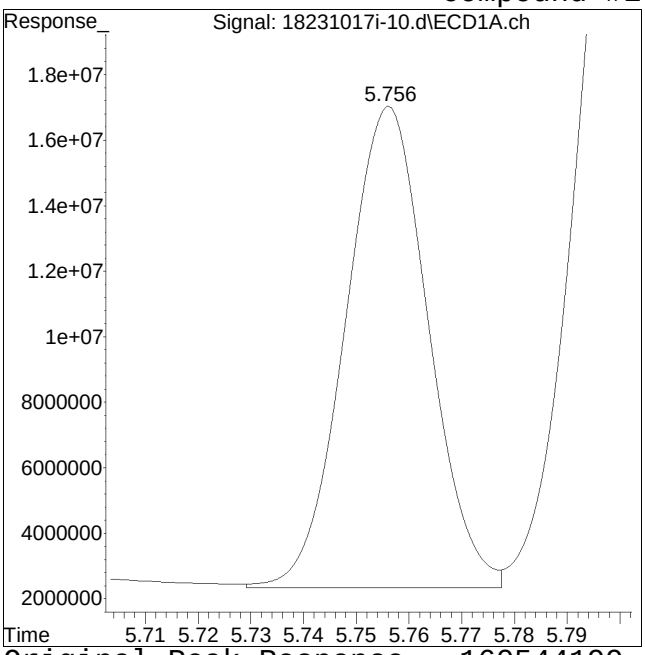


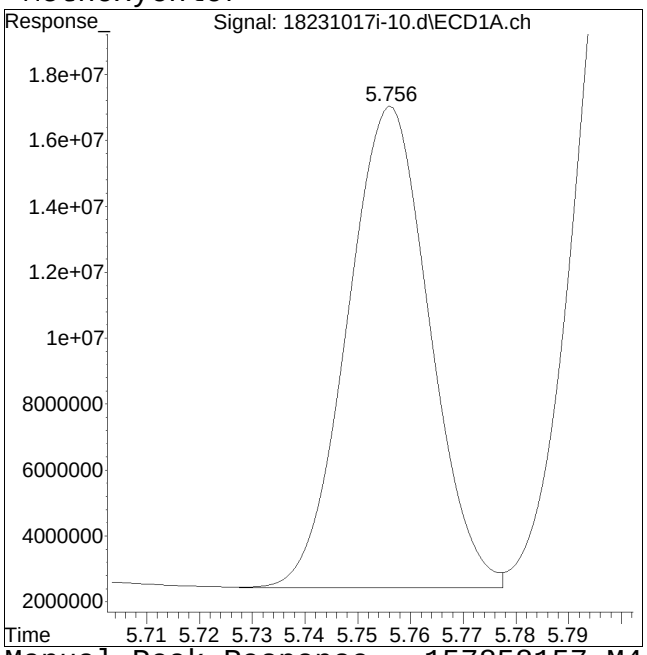
Original Peak Response = 295718990 Manual Peak Response = 283387323 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #23: Methoxychlor



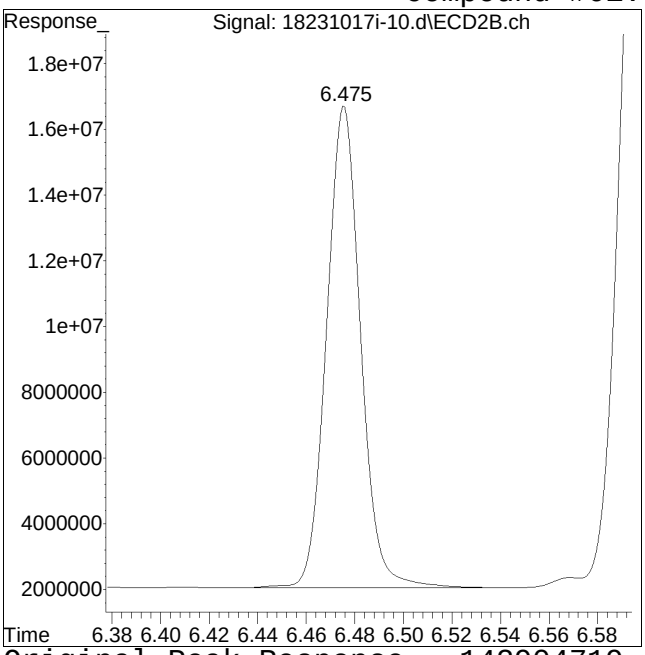


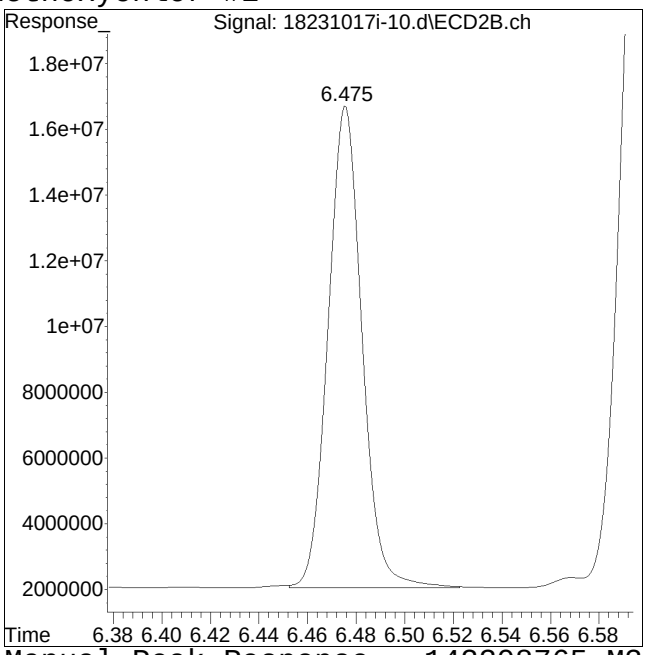
Original Peak Response = 160544199 Manual Peak Response = 157858157 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #61: Methoxychlor #2





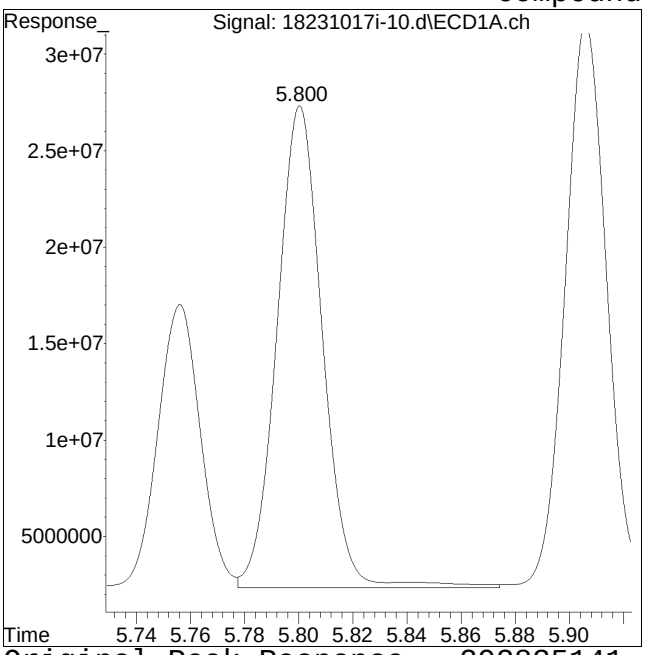
Original Peak Response = 142904719 Manual Peak Response = 142308765 M3

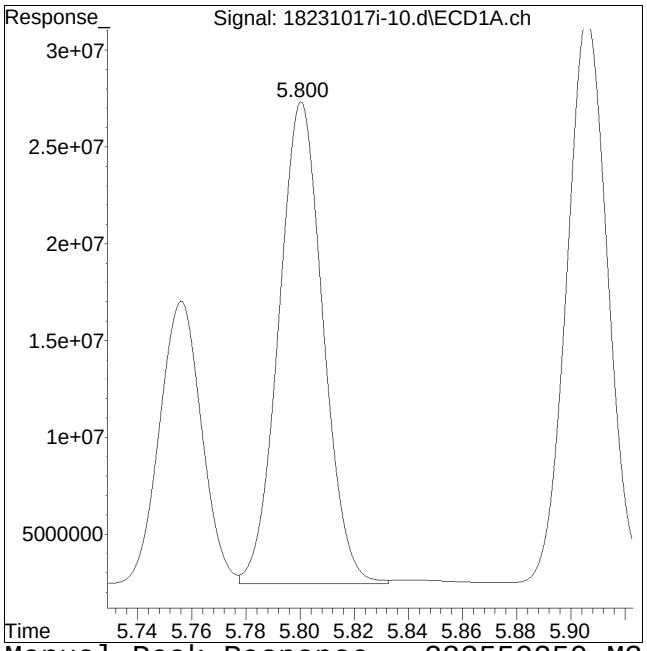
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #24: Mirex



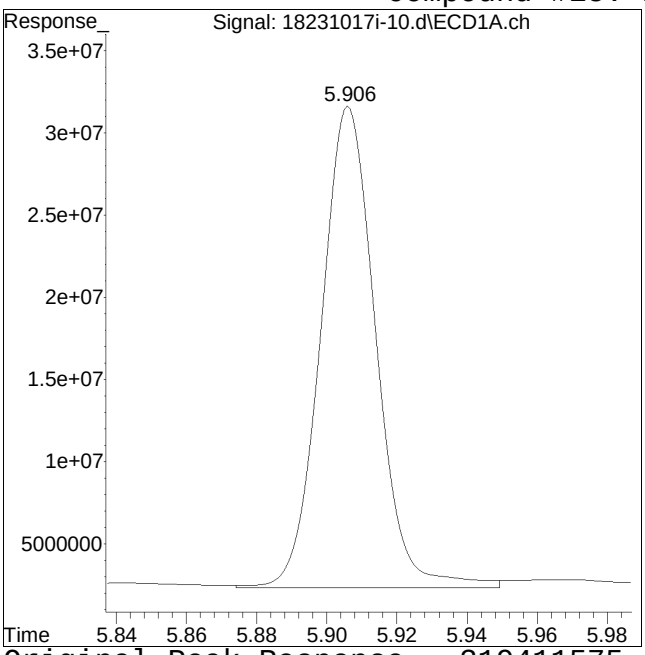


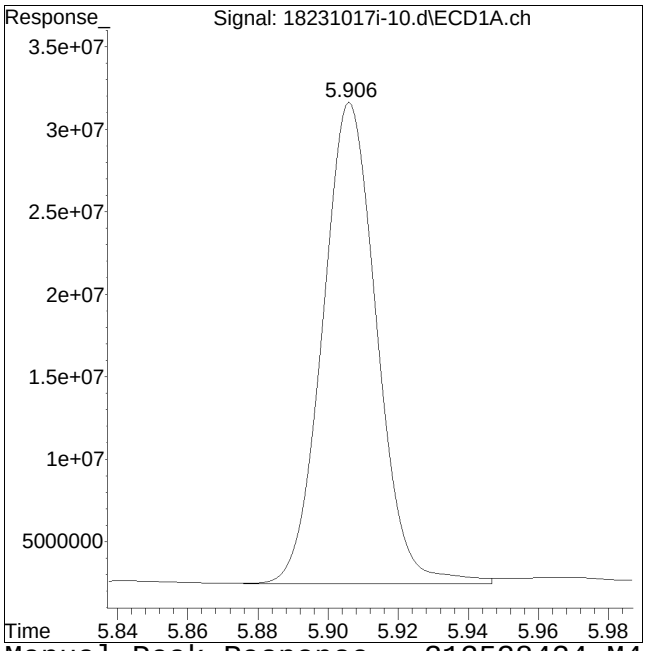
Original Peak Response = 292835141 Manual Peak Response = 283550250 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #25: Endosulfan Sulfate



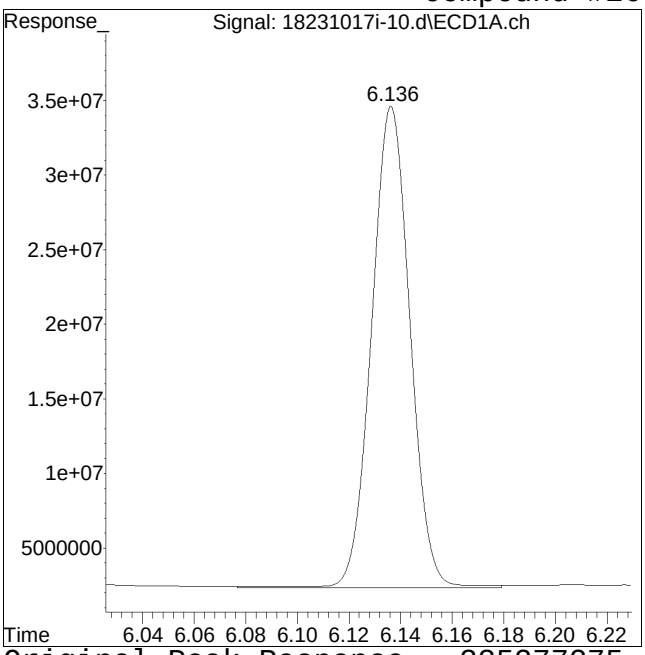


Original Peak Response = 319411575 Manual Peak Response = 313538424 M4
M4 = Poor automated baseline construction.

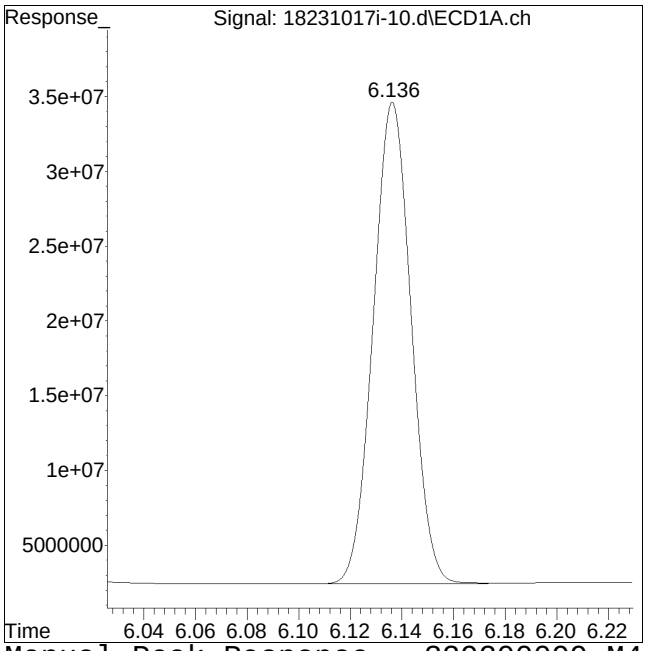
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #26: Endrin Ketone



Original Peak Response = 335277275

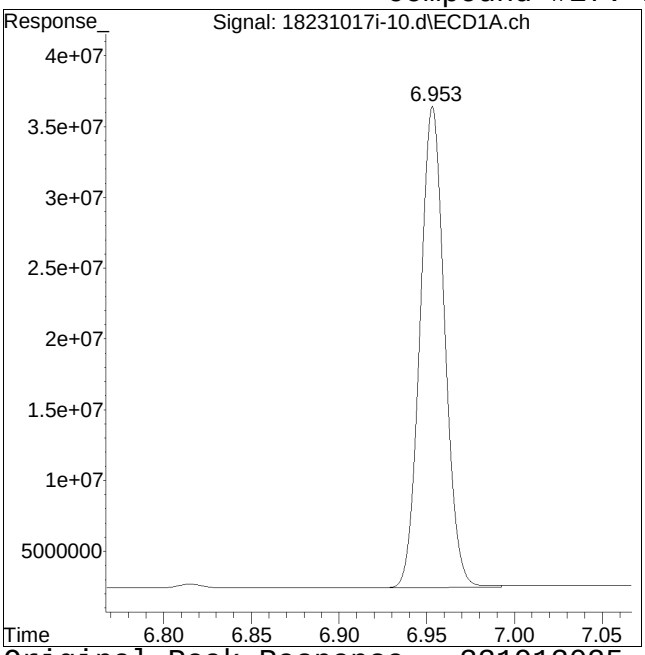


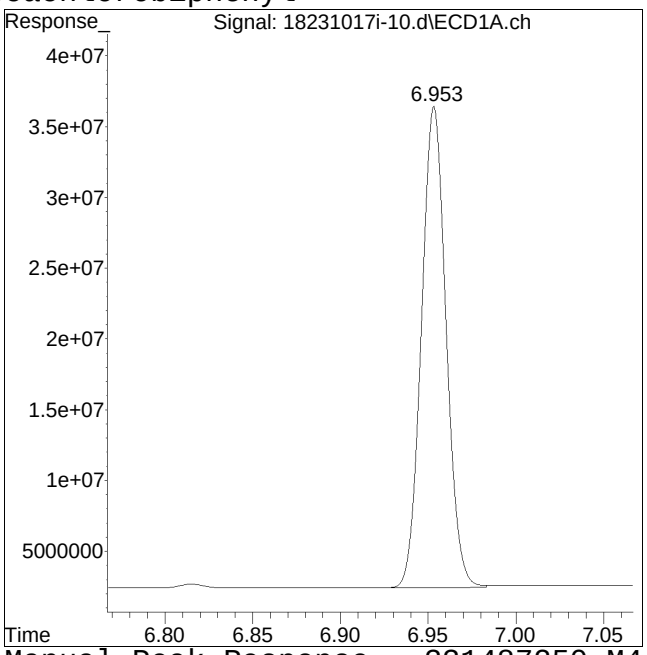
Manual Peak Response = 329200099 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-10.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:34 pm Instrument : Pest 18
Sample : il9pest,42e,,pp 11223 L0.1Quant Date : 10/19/2023 8:51 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 331913025 Manual Peak Response = 331487250 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:45 pm
Operator : PEST18:ejl
Sample : il10pest,42e,,pp 11222 L0.2
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:04:35 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 08:57:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.721	1.770	81802193	71215461	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.155	2.319	645.6E6	575.1E6	190.208M3	191.527M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		380.42%#	383.05%#
27) s	Decachlorobi	6.953	7.525	603.3E6	473.3E6	182.474M4	185.092
	Spiked Amount 50.000	Range 30 - 150		Recovery =		364.95%#	370.18%#
	Target Compounds						
3)	Hexachlorobe	2.397	2.657	677.8E6	614.8E6	187.252M3	187.859
4)	alpha-BHC	2.510	2.762	890.2E6	793.1E6	194.438M3	195.835
5)	gamma-BHC (l	2.730	3.054	806.8E6	721.2E6	193.985M3	195.752
6)	beta-BHC	2.798	3.128	358.4E6	321.1E6	189.435M3	190.869
7)	delta-BHC	2.934	3.396	830.6E6	738.9E6	195.415M4	196.858
8)	Heptachlor	3.096	3.448	735.4E6	674.6E6	191.023M3	192.265
9)	Aldrin	3.346	3.764	743.8E6	672.9E6	192.070	193.481
10)	Alachlor	3.484	3.665	113.3E6	90377615	176.735M4	178.160M3
11)	Chlorpyrifos	3.580	4.017	327.0E6	302.6E6	175.245M4	176.377
12)	Heptachlor E	3.907	4.379	693.2E6	628.7E6	189.095M3	190.703
13)	gamma-Chlord	4.035	4.599	633.0E6	570.7E6	189.328M4	191.855
14)	alpha-Chlord	4.170	4.773	709.9E6	634.0E6	188.725M3	190.155
15)	4,4'-DDE	4.277	4.993	744.6E6	662.1E6	194.220M4	192.574M4
16)	Endosulfan I	4.305	4.834	655.4E6	600.1E6	188.305M3	191.059
17)	Dieldrin	4.569	5.147	706.8E6	624.6E6	191.794M4	193.068
18)	Endrin	4.825	5.459	728.7E6	628.2E6	189.849M3	191.918
19)	4,4'-DDD	4.952	5.601	600.7E6	525.5E6	193.513M4	194.424M4

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:45 pm
Operator : PEST18:ejl
Sample : il10pest,42e,,pp 11222 L0.2
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:04:35 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 08:57:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	5.077	5.670	622.9E6	545.1E6	188.163M4	189.323M4
21)	4,4'-DDT	5.252	5.888	587.4E6	521.3E6	208.386M3	203.428M4
22)	Endrin Aldeh	5.506	5.980	546.2E6	472.5E6	192.650M3	193.167M4
23)	Methoxychlor	5.756	6.474	305.9E6	272.7E6	198.852M4	194.955M3
24)	Mirex	5.800	6.596	519.6E6	426.5E6	180.042M3	181.308
25)	Endosulfan S	5.906	6.217	597.0E6	504.7E6	189.153M4	190.646M4
26)	Endrin Keton	6.136	6.636	637.1E6	556.8E6	194.745M4	195.464
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:45 pm
Operator : PEST18:ejl
Sample : il10pest,42e,,pp 11222 L0.2
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:04:35 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 08:57:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

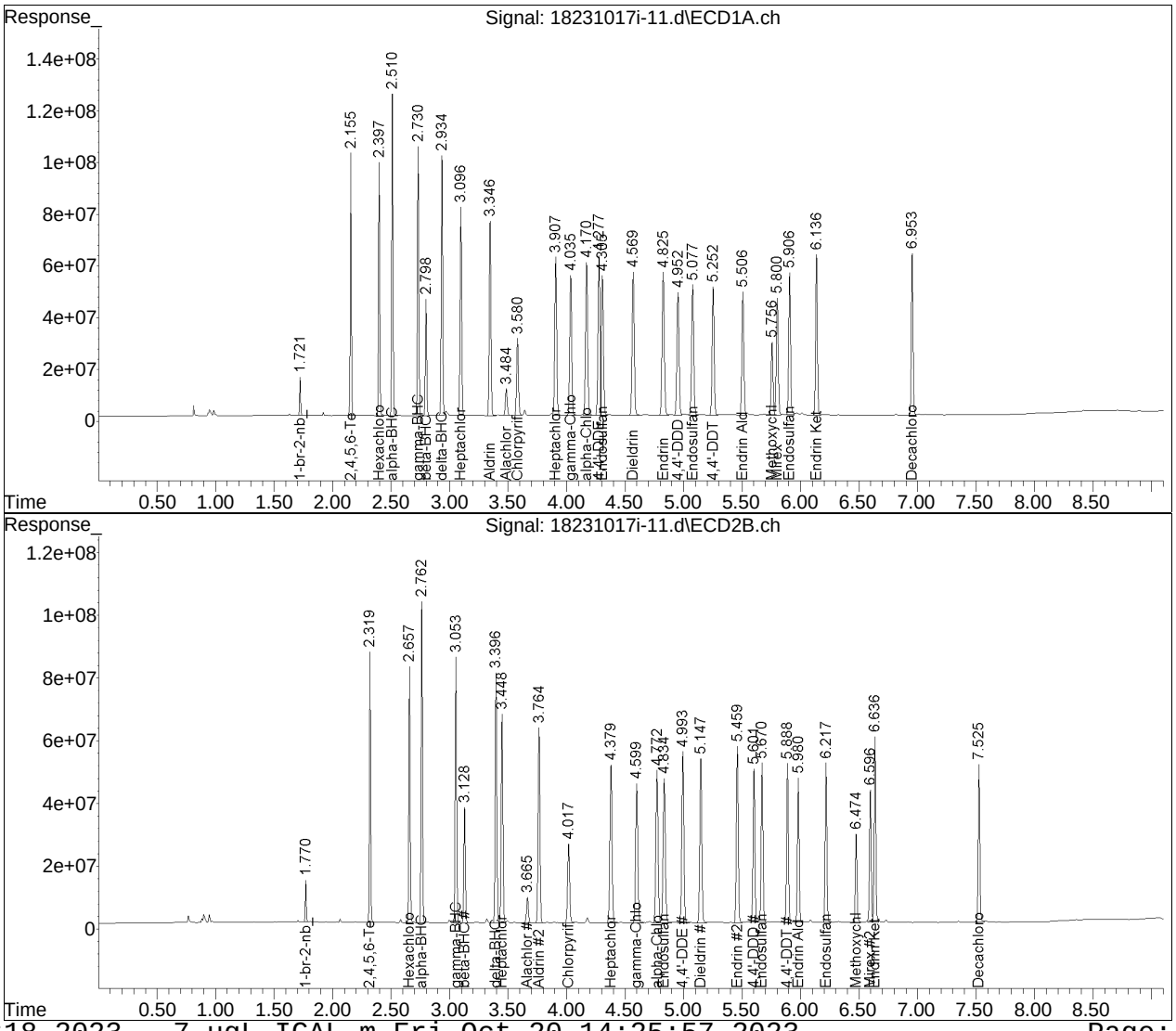
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:45 pm
Operator : PEST18:ejl
Sample : il10pest,42e,,pp 11222 L0.2
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:04:35 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 08:57:33 2023
Response via : Initial Calibration
Integrator: ChemStation

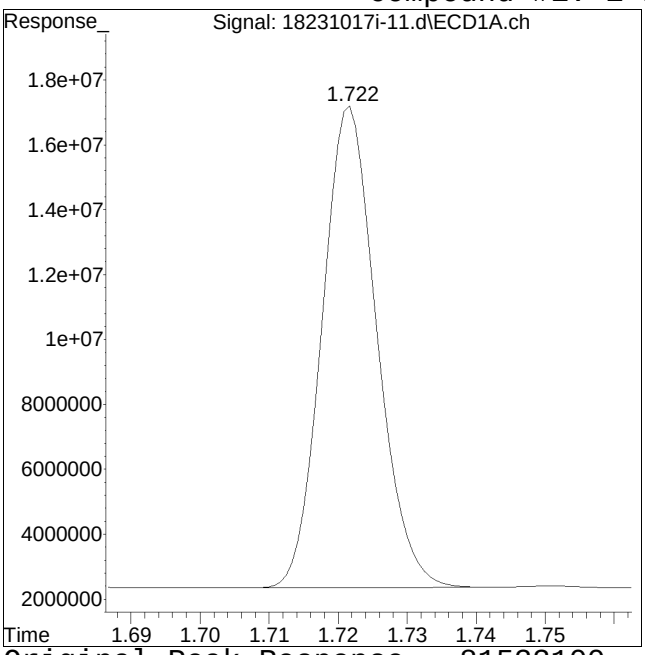
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

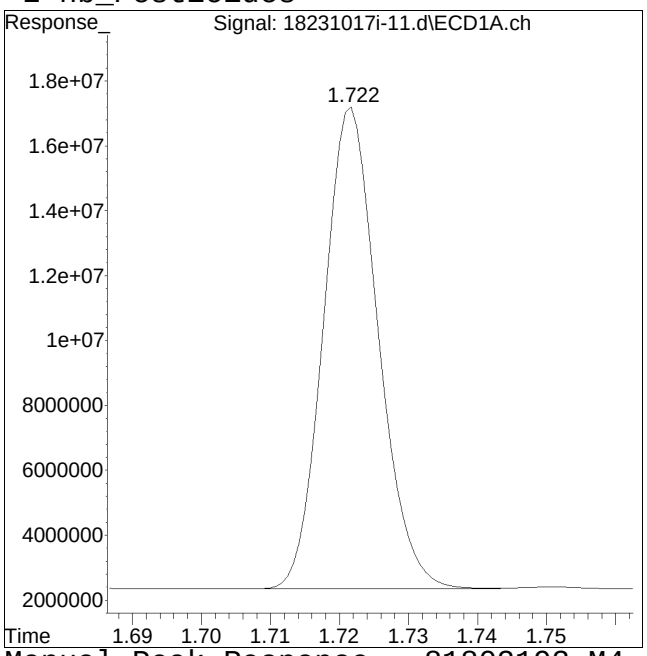


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #1: 1-br-2-nb_Pesticides



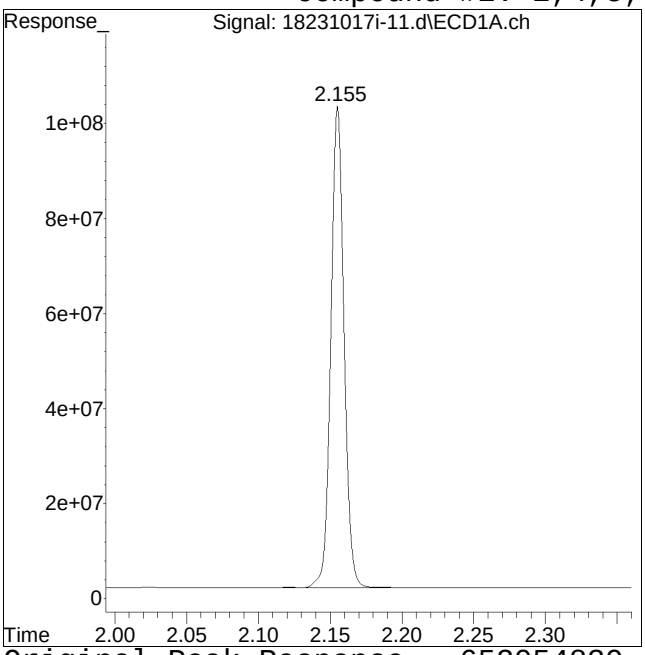


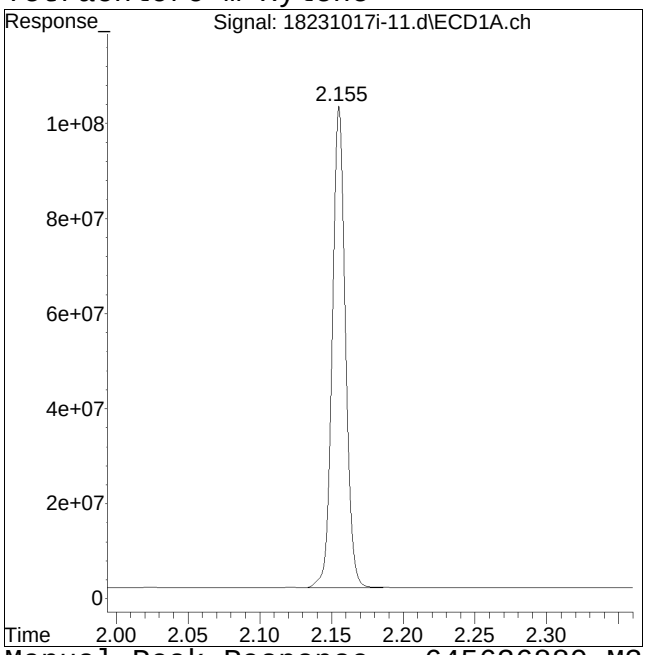
Original Peak Response = 81533100 Manual Peak Response = 81802193 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



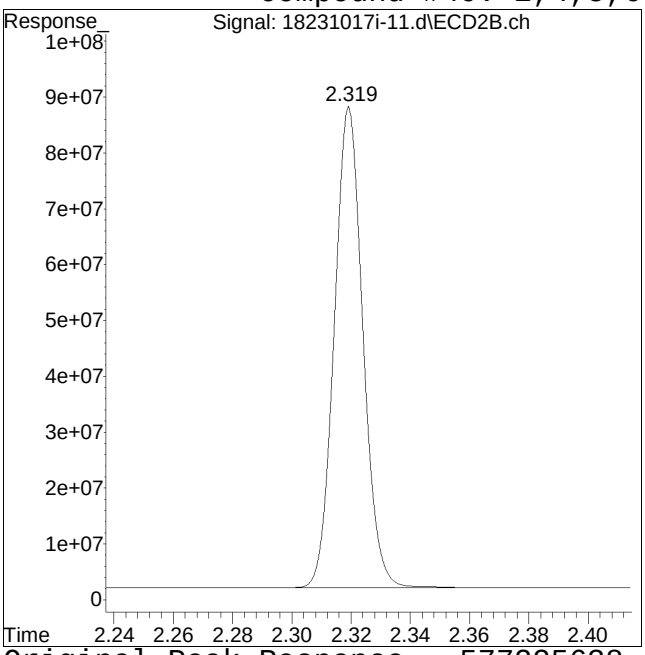


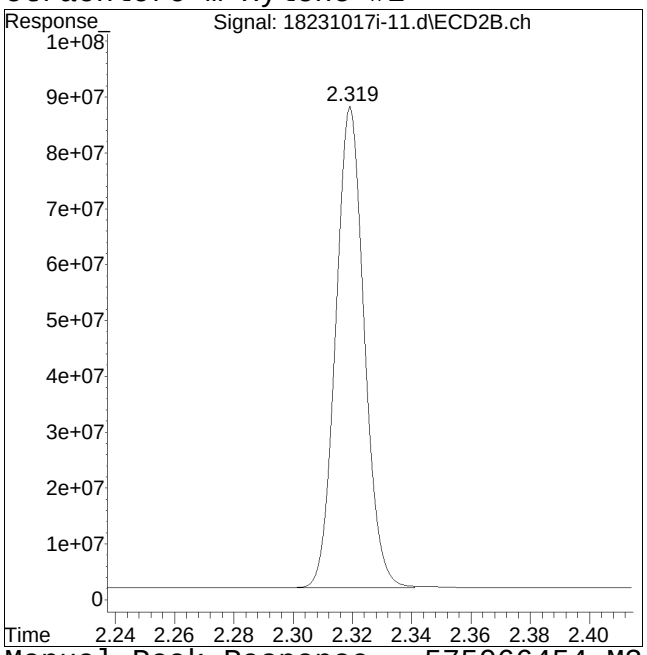
Original Peak Response = 652054839 Manual Peak Response = 645636880 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



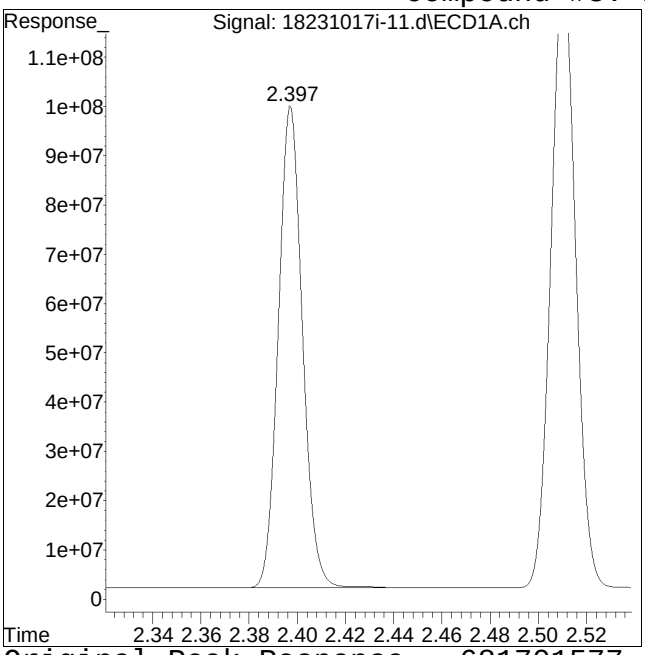


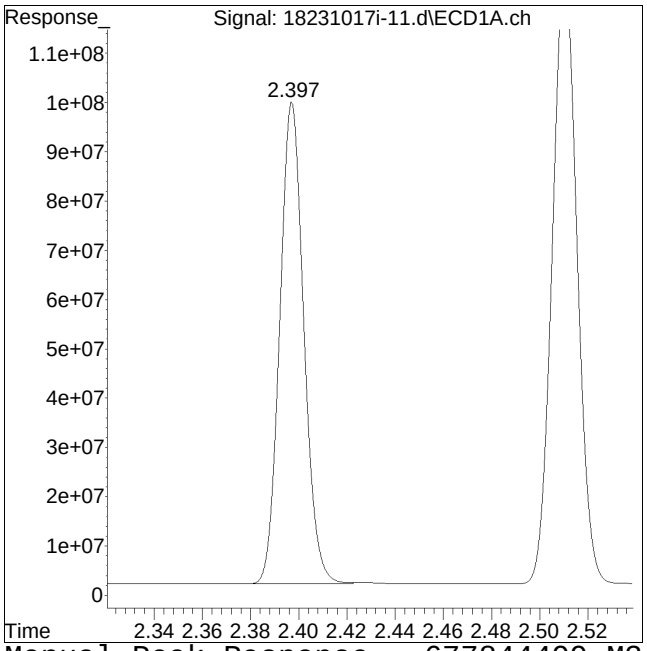
Original Peak Response = 577225638 Manual Peak Response = 575066454 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #3: Hexachlorobenzene



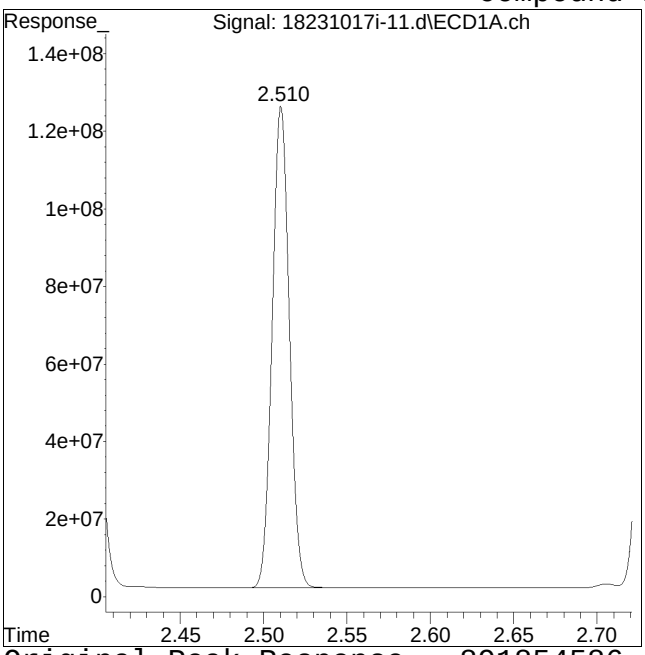


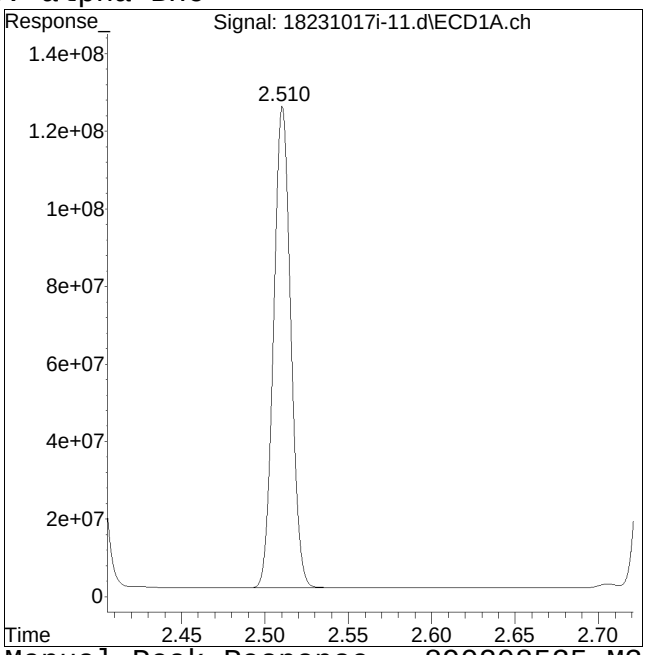
Original Peak Response = 681701577 Manual Peak Response = 677844499 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #4: alpha-BHC



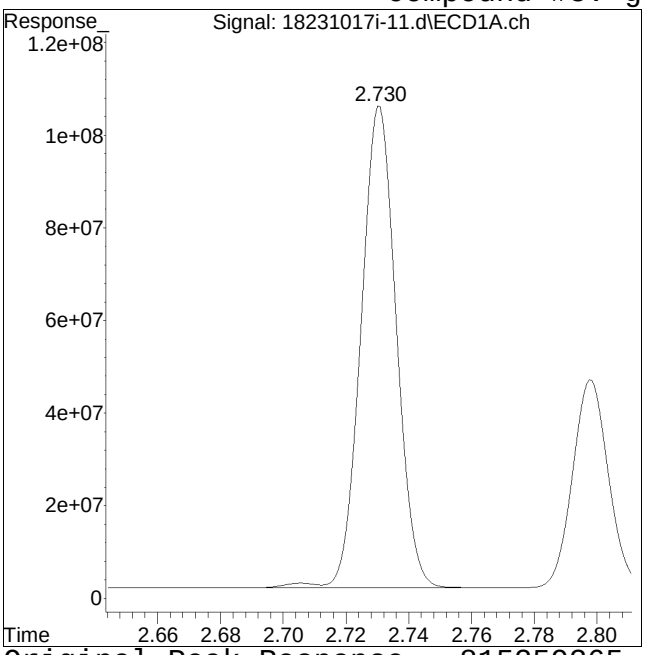


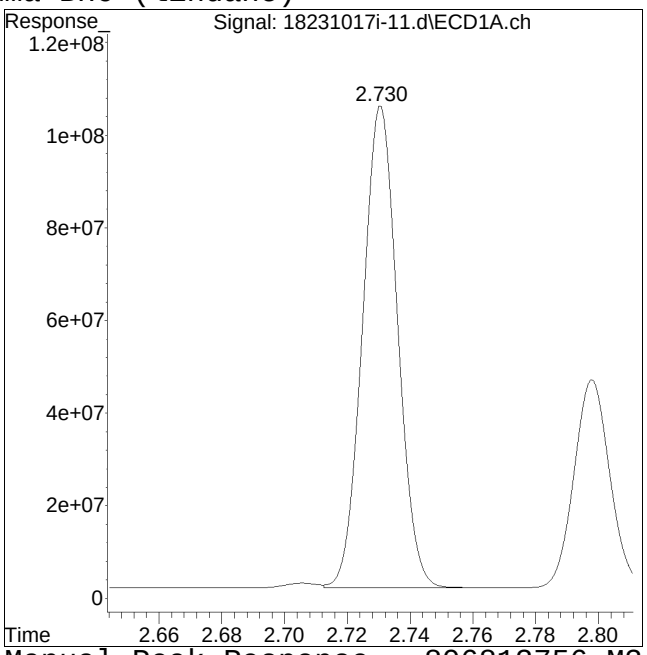
Original Peak Response = 891854586 Manual Peak Response = 890208535 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #5: gamma-BHC (lindane)



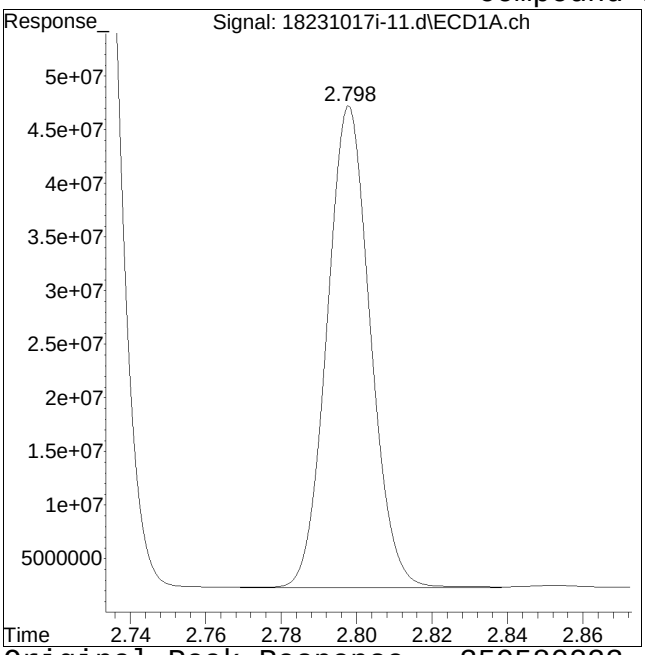


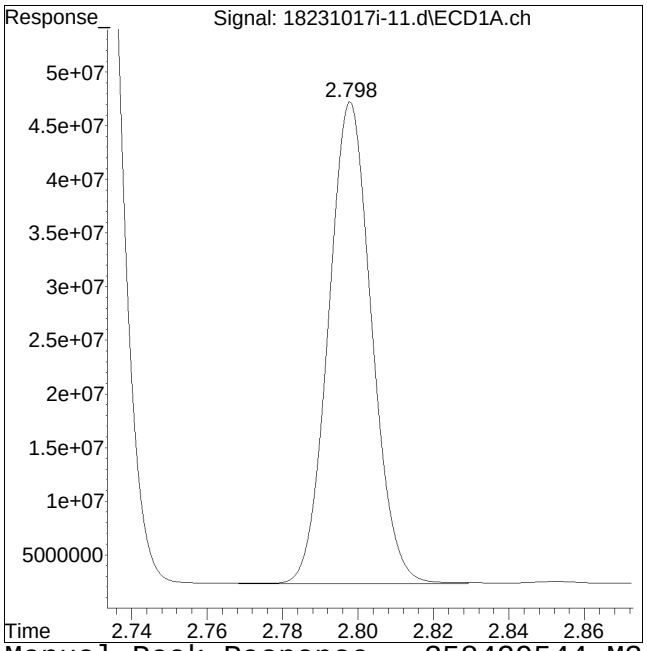
Original Peak Response = 815259365 Manual Peak Response = 806813756 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #6: beta-BHC



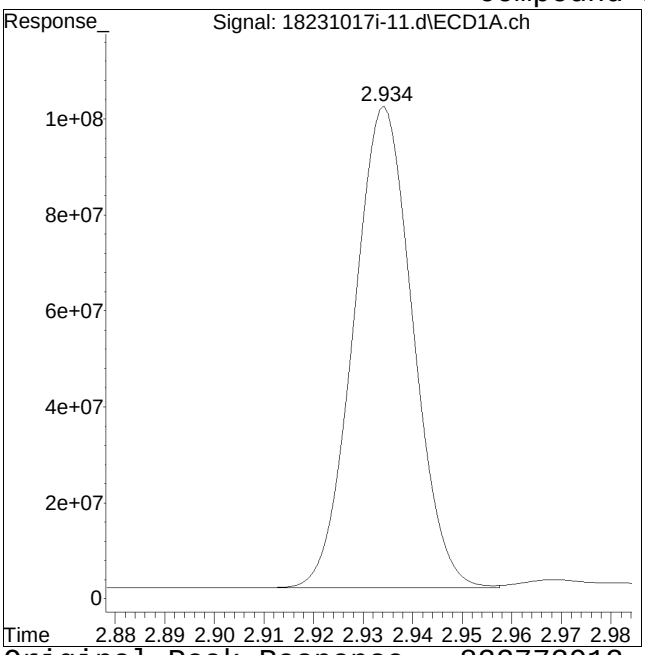


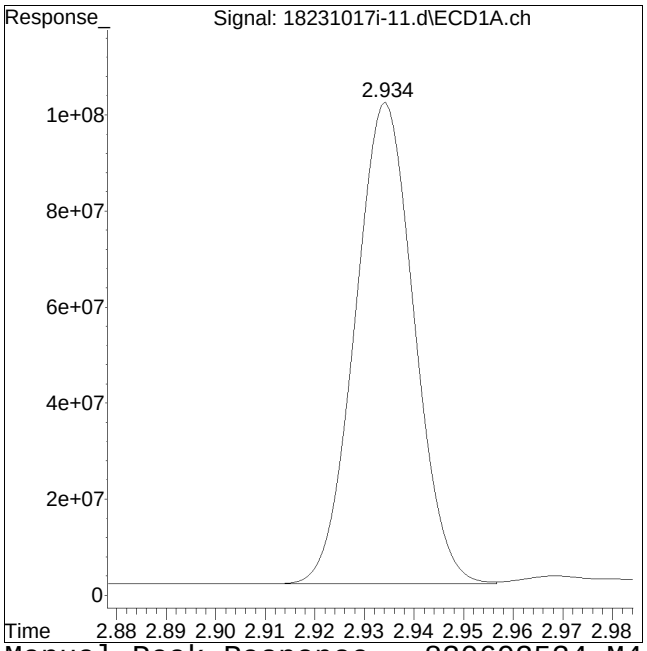
Original Peak Response = 359580223 Manual Peak Response = 358429544 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #7: delta-BHC



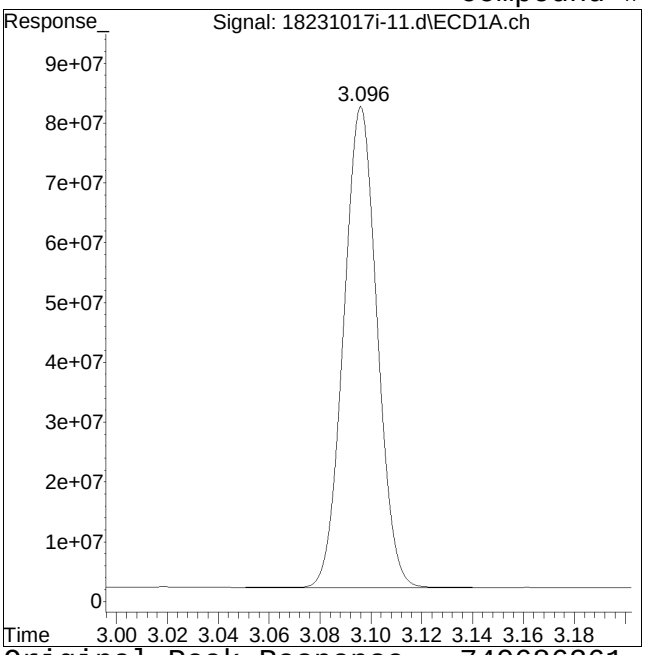


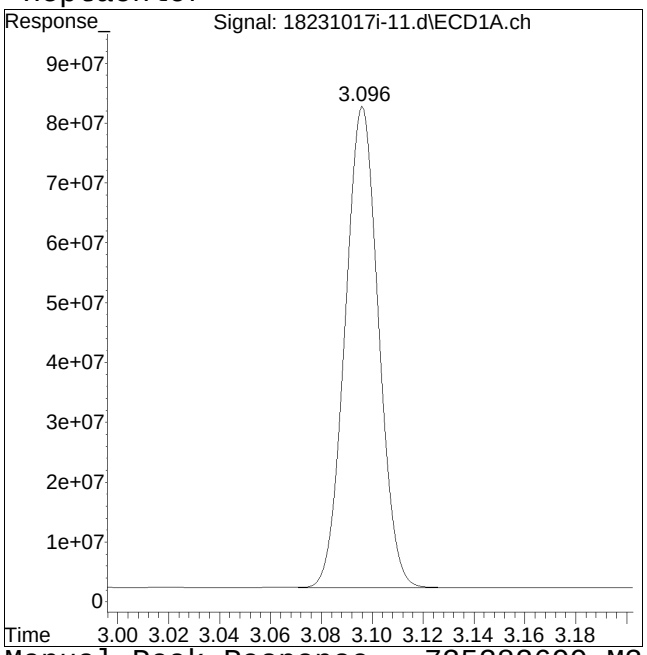
Original Peak Response = 832773912 Manual Peak Response = 830603534 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #8: Heptachlor



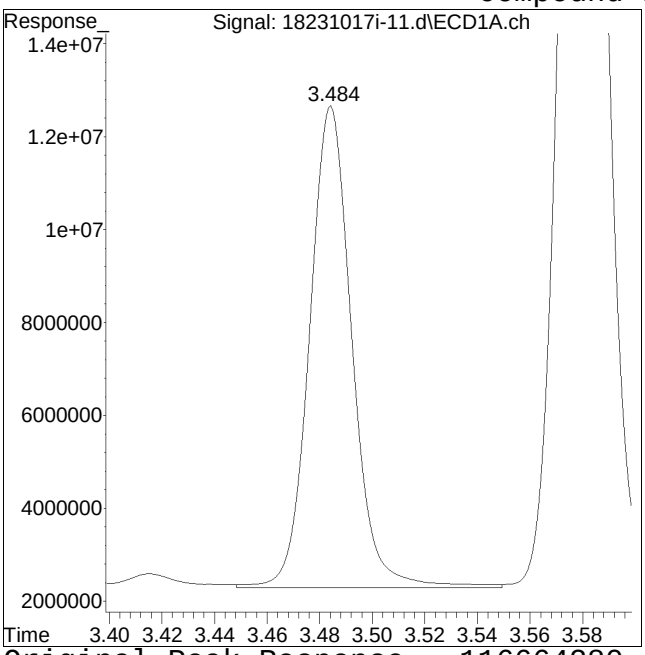


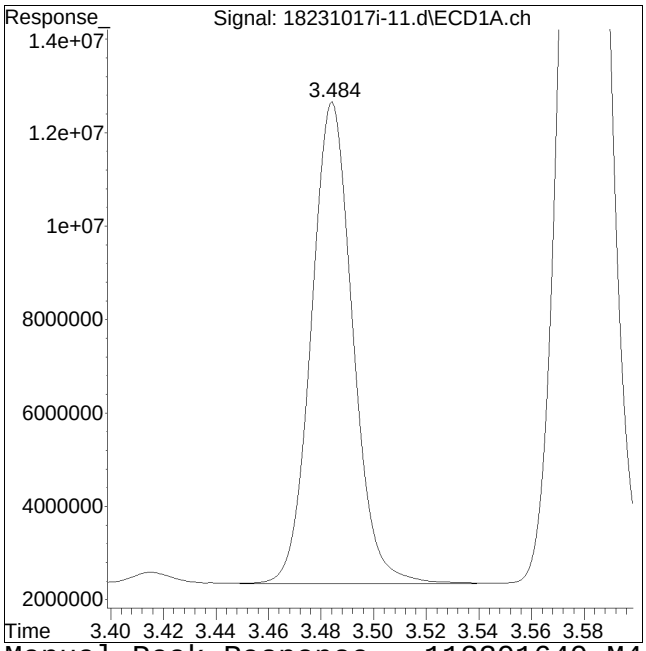
Original Peak Response = 740686361 Manual Peak Response = 735382699 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #10: Alachlor



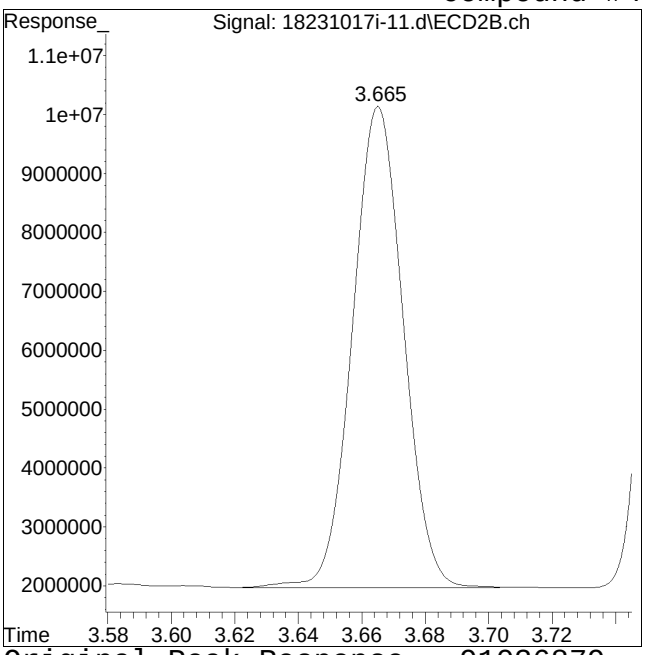


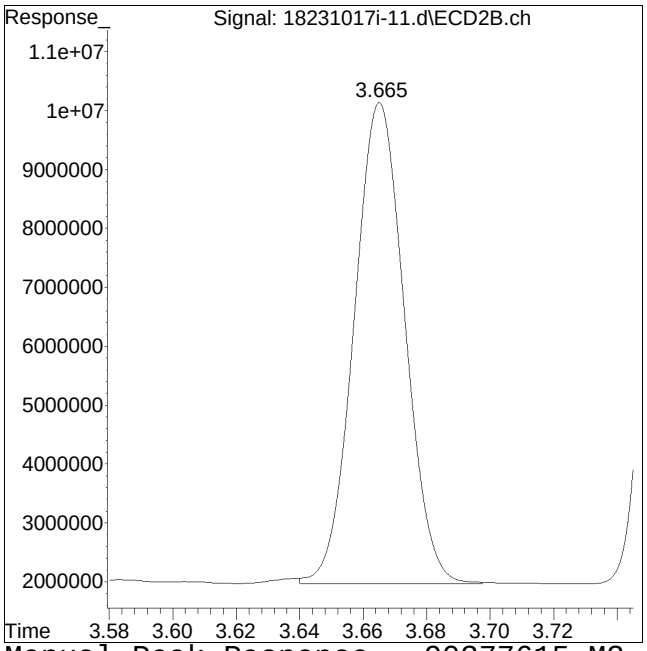
Original Peak Response = 116664280 Manual Peak Response = 113301640 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #48: Alachlor #2



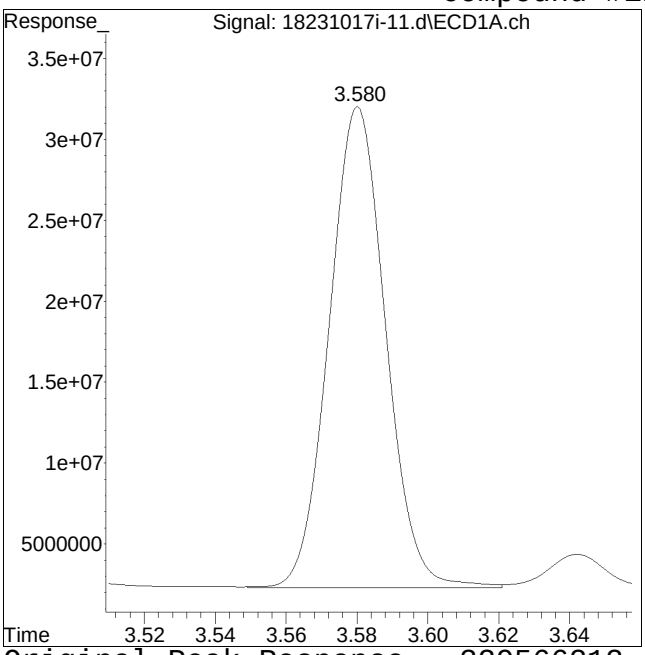


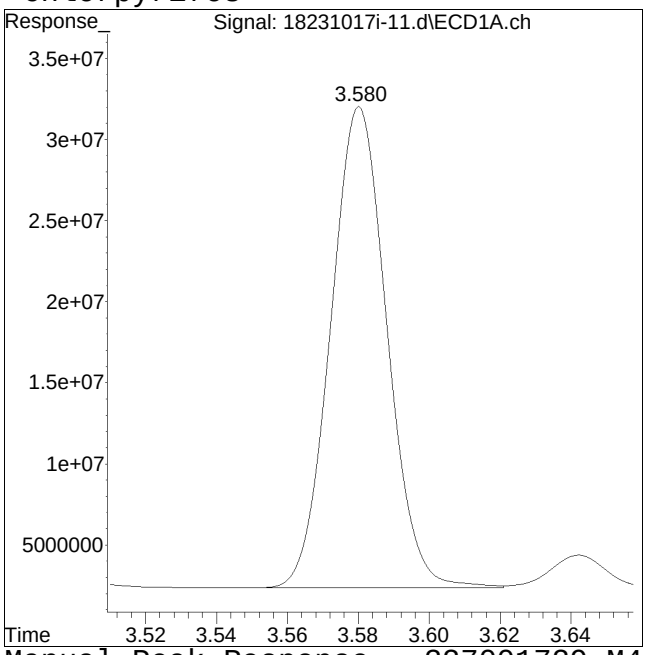
Original Peak Response = 91036879 Manual Peak Response = 90377615 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #11: Chlorpyrifos



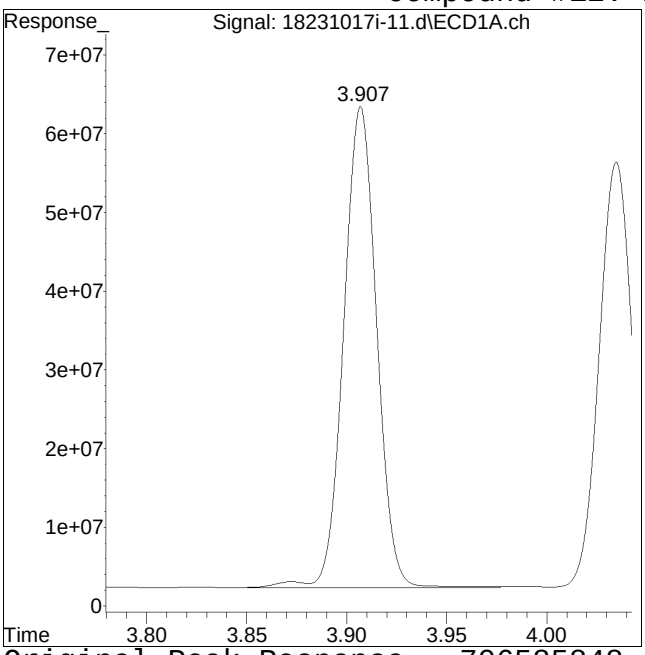


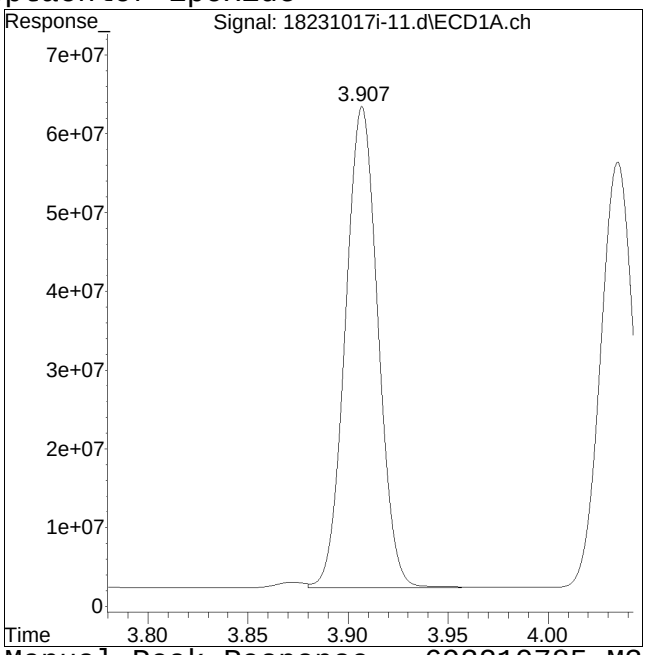
Original Peak Response = 329566212 Manual Peak Response = 327001729 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #12: Heptachlor Epoxide



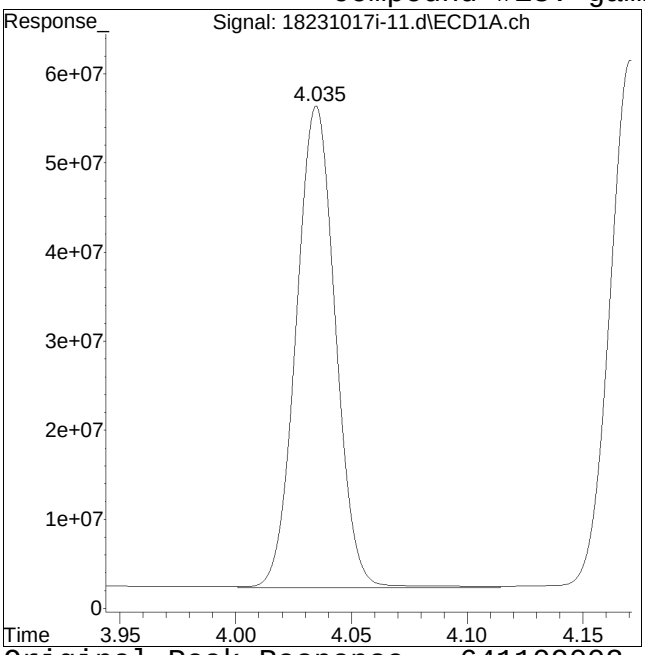


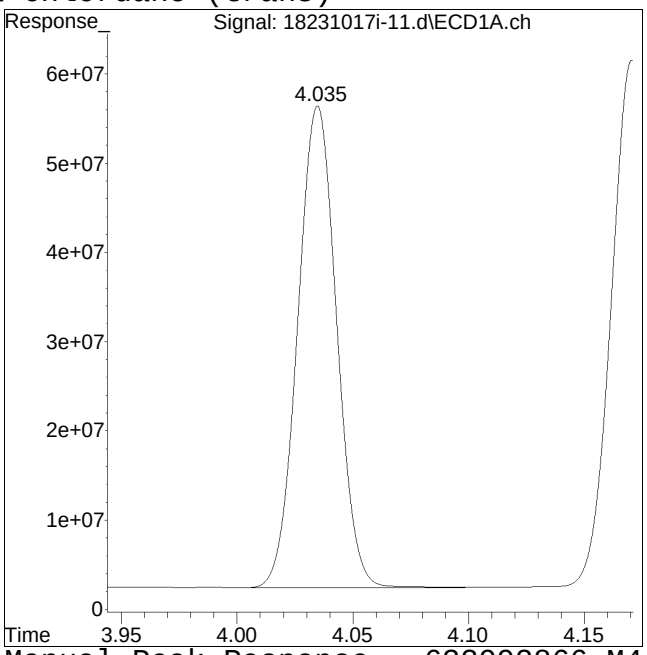
Original Peak Response = 706585848 Manual Peak Response = 693210785 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #13: gamma-Chlordane (trans)



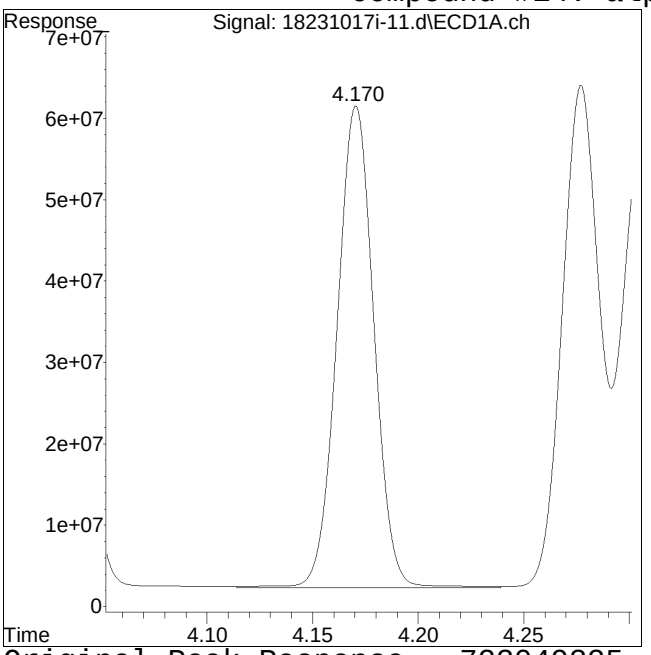


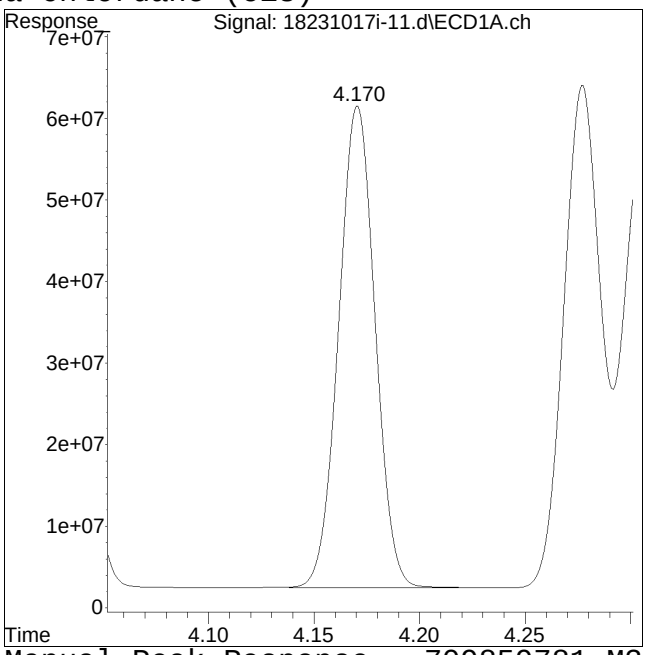
Original Peak Response = 641109002 Manual Peak Response = 632992866 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #14: alpha-Chlordane (cis)



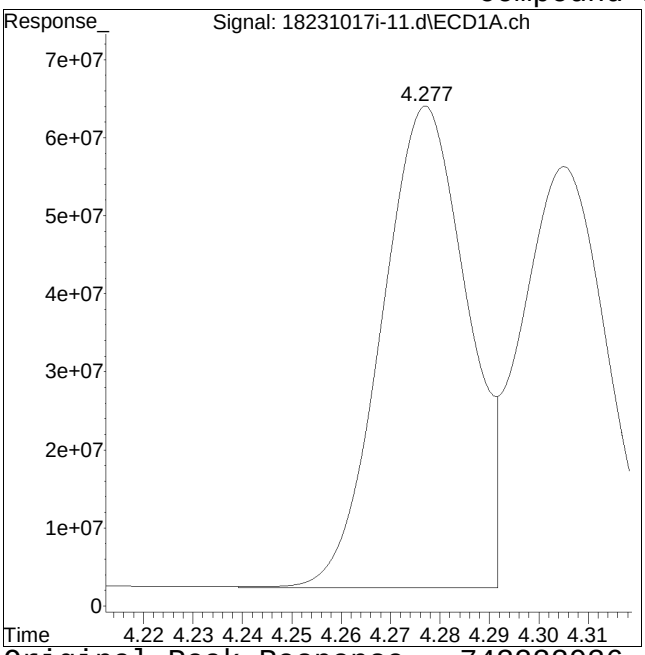


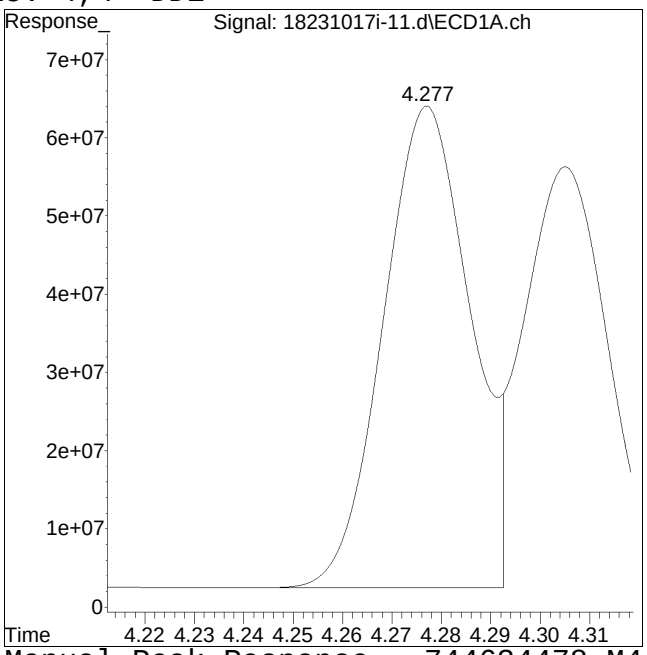
Original Peak Response = 723049325 Manual Peak Response = 709859781 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #15: 4,4'-DDE



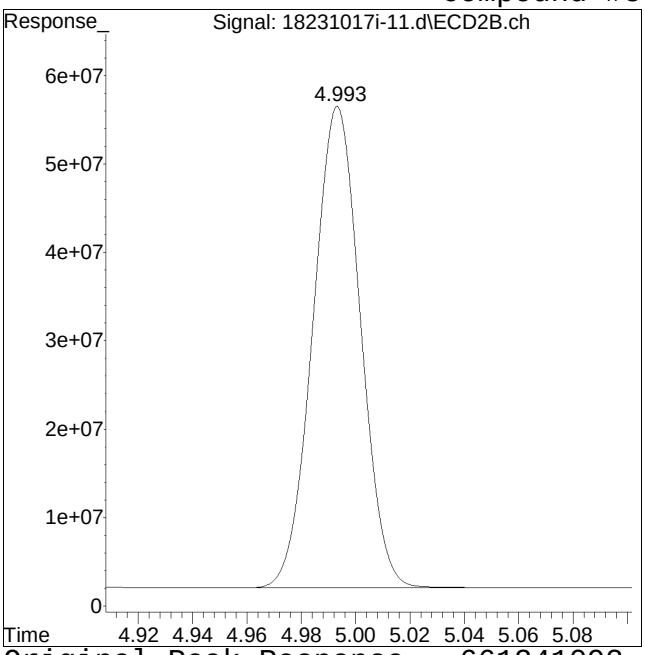


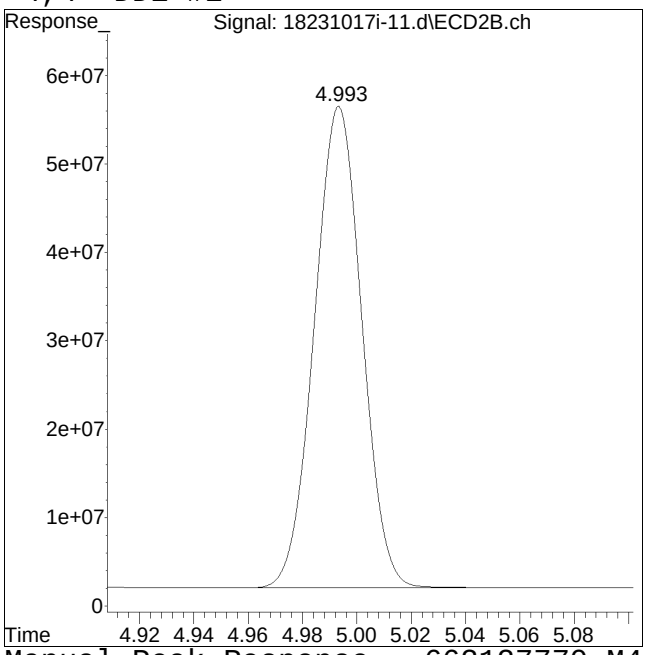
Original Peak Response = 743232936 Manual Peak Response = 744634478 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #53: 4,4'-DDE #2



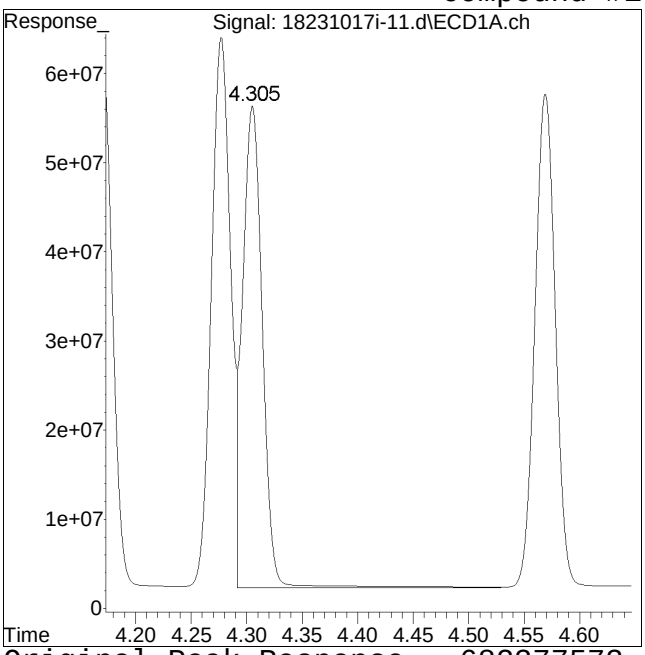


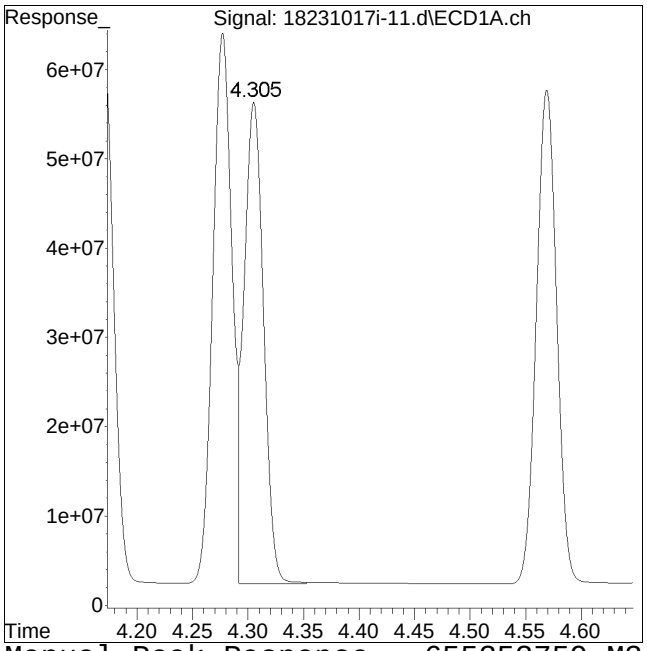
Original Peak Response = 661241092 Manual Peak Response = 662127770 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #16: Endosulfan I



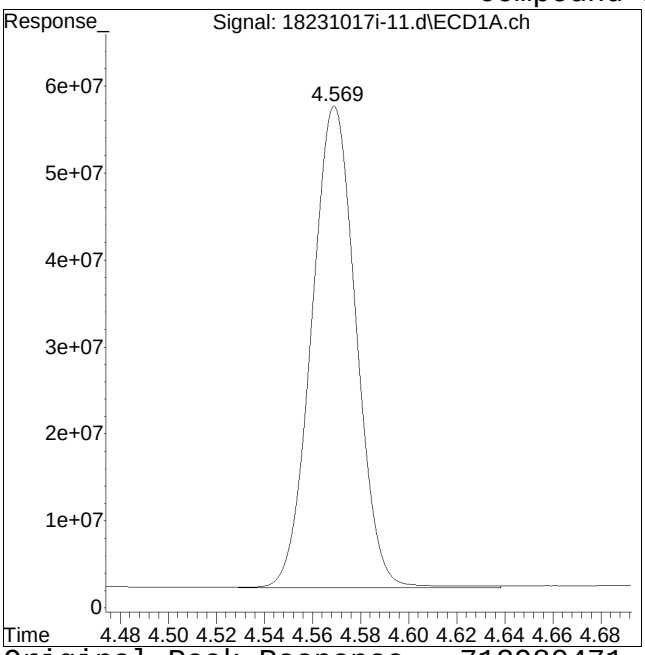


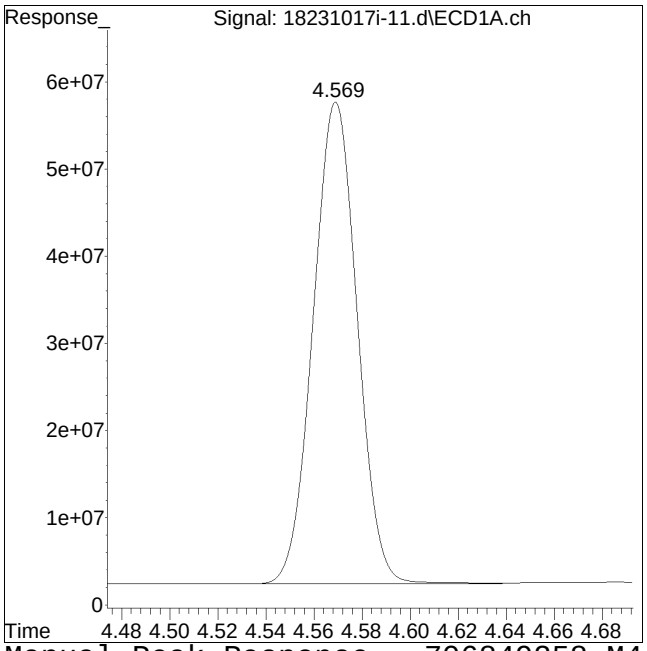
Original Peak Response = 682377573 Manual Peak Response = 655353759 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #17: Dieldrin



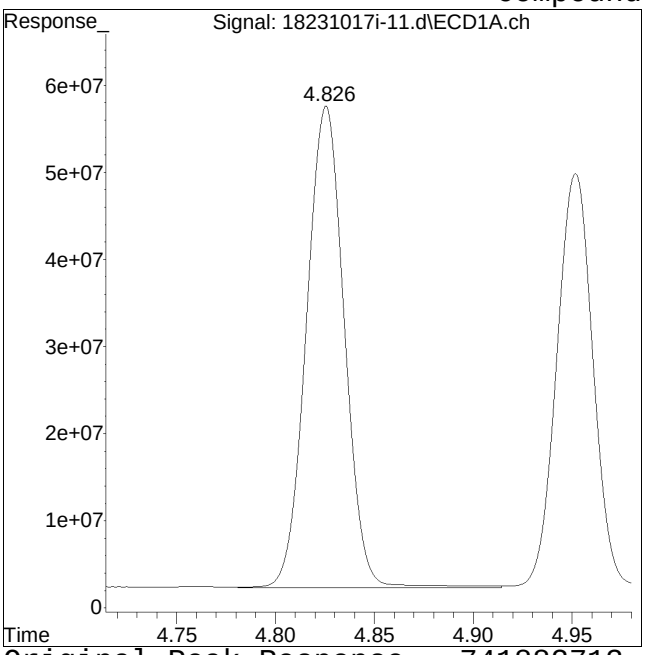


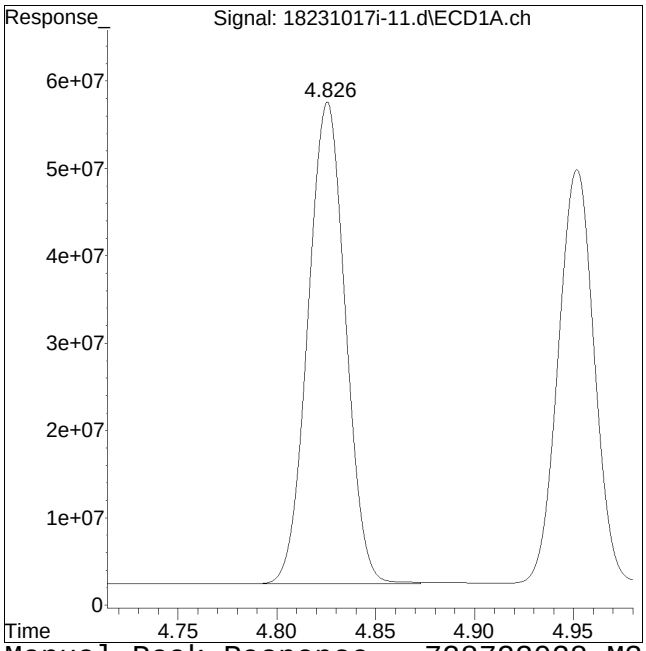
Original Peak Response = 712980471 Manual Peak Response = 706849258 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #18: Endrin



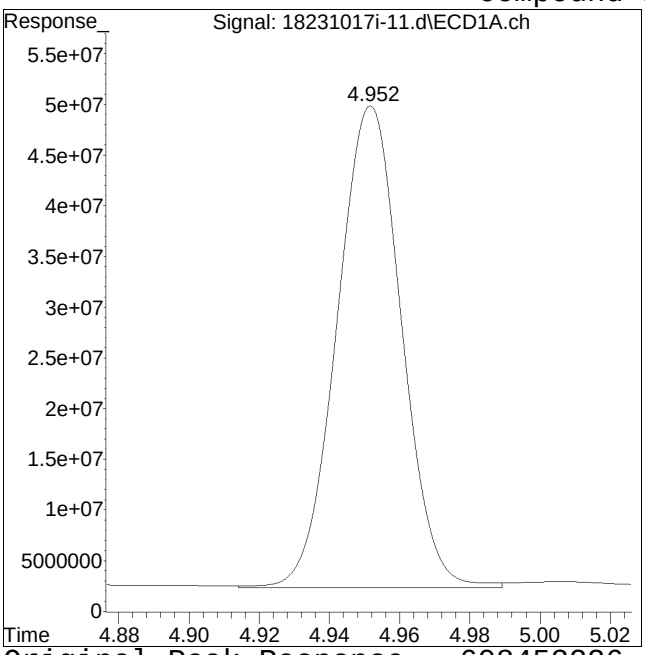


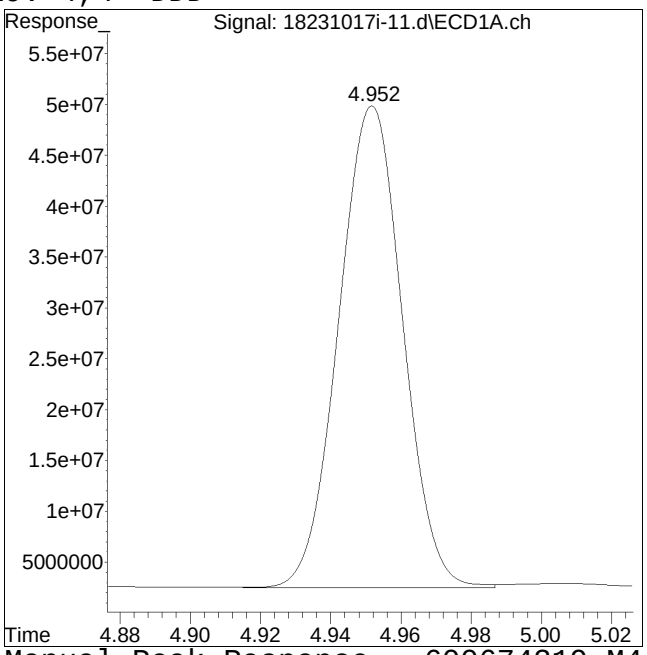
Original Peak Response = 741882713 Manual Peak Response = 728723028 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #19: 4,4'-DDD



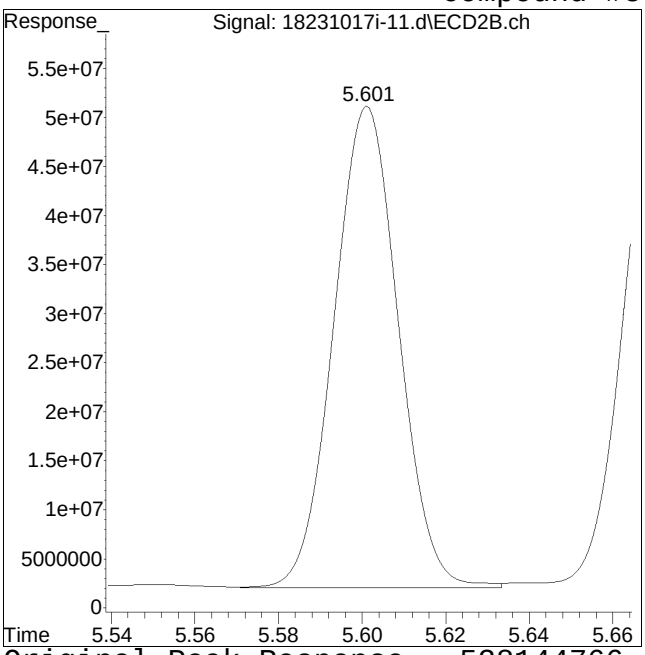


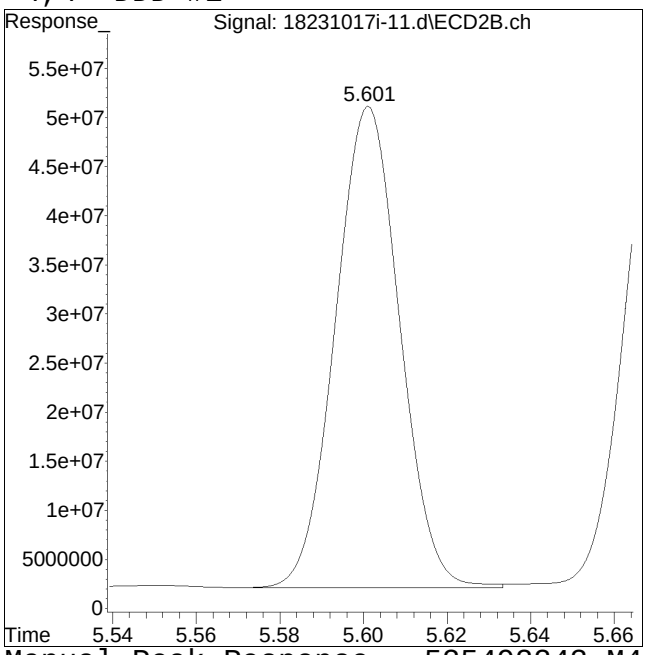
Original Peak Response = 608452226 Manual Peak Response = 600674319 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #57: 4,4'-DDD #2



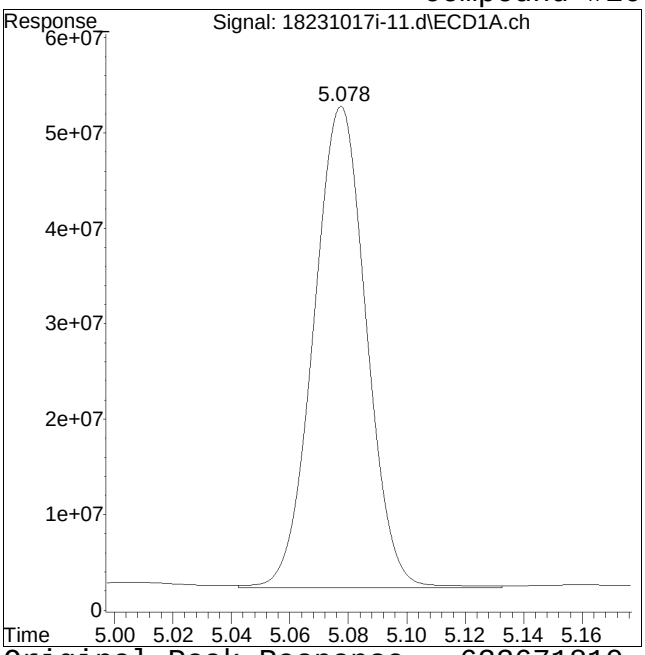


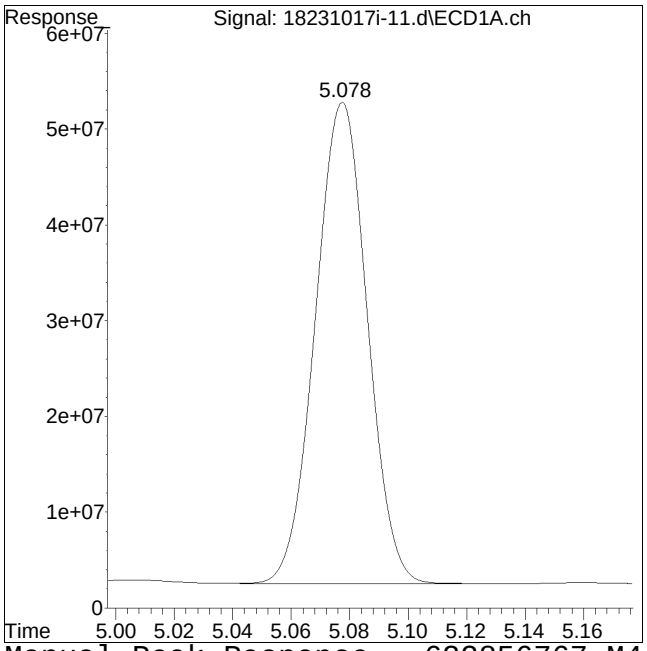
Original Peak Response = 528144766 Manual Peak Response = 525492243 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #20: Endosulfan II



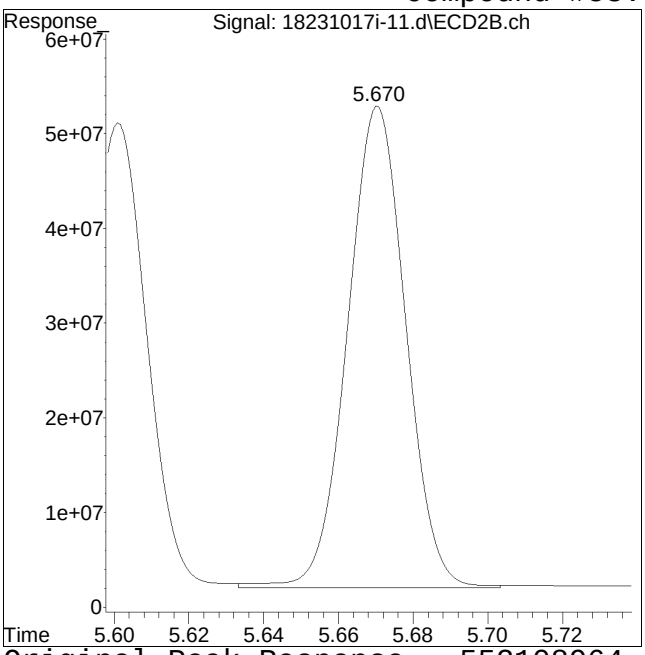


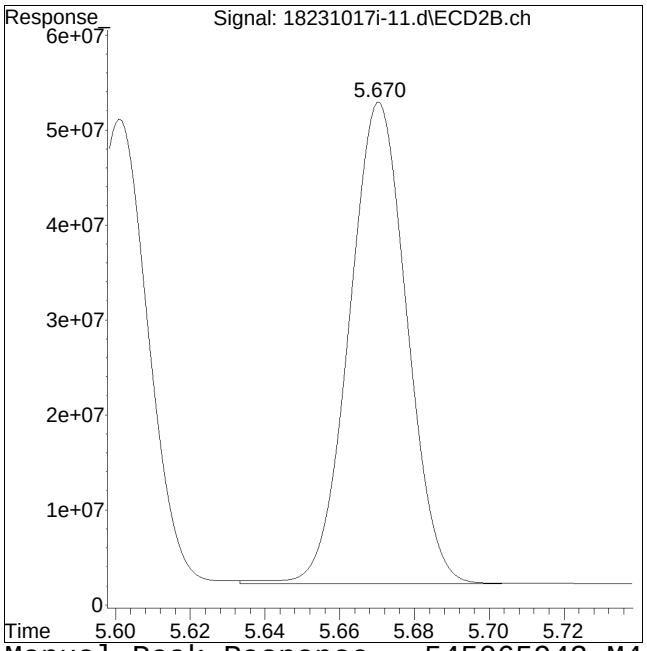
Original Peak Response = 633671810 Manual Peak Response = 622856767 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #58: Endosulfan II #2



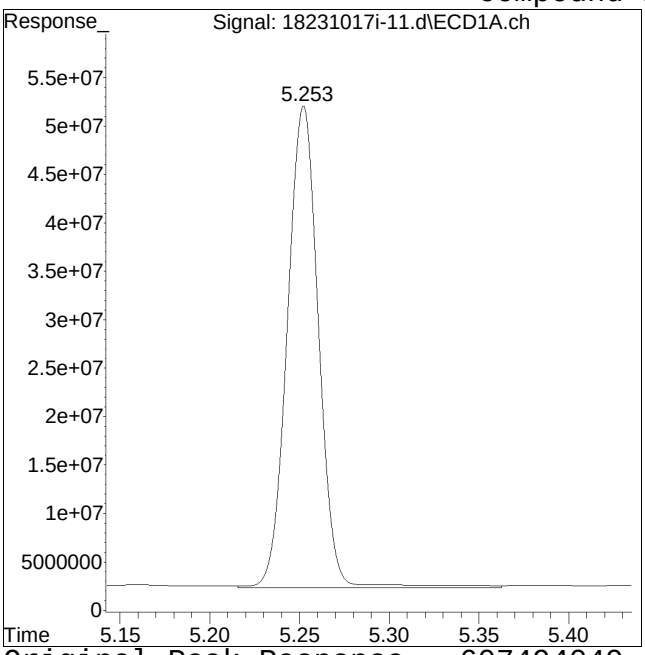


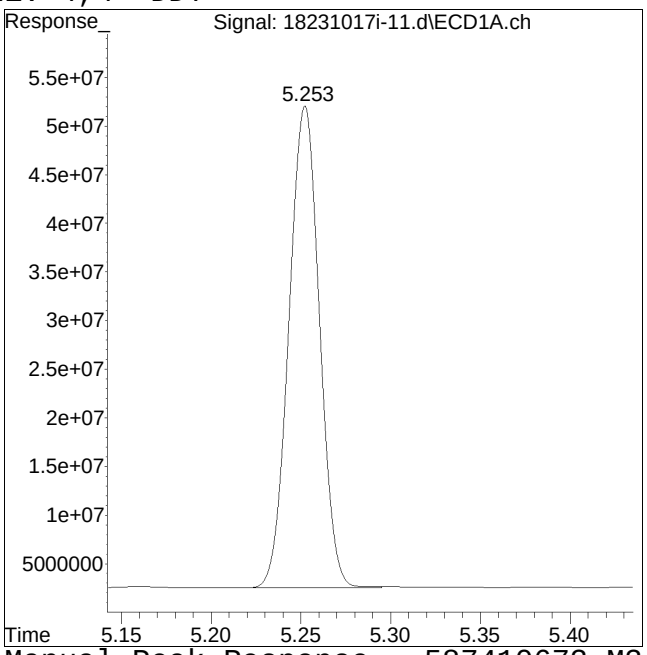
Original Peak Response = 552108964 Manual Peak Response = 545065943 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #21: 4,4'-DDT



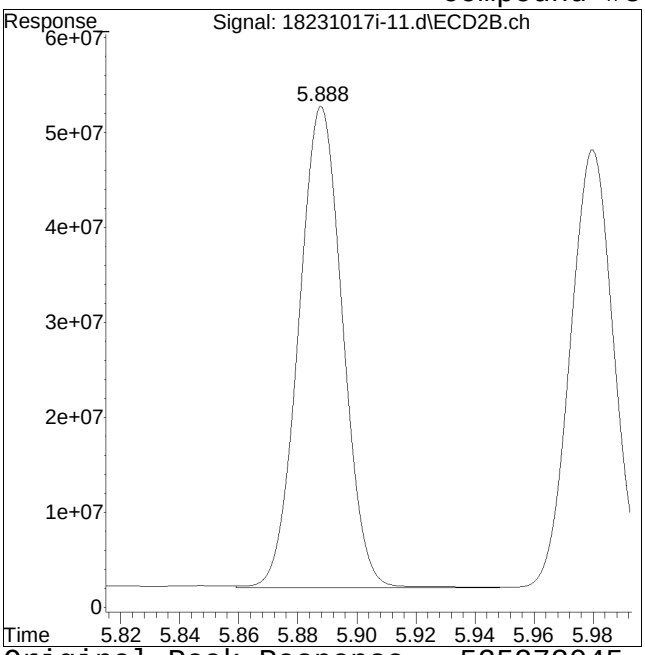


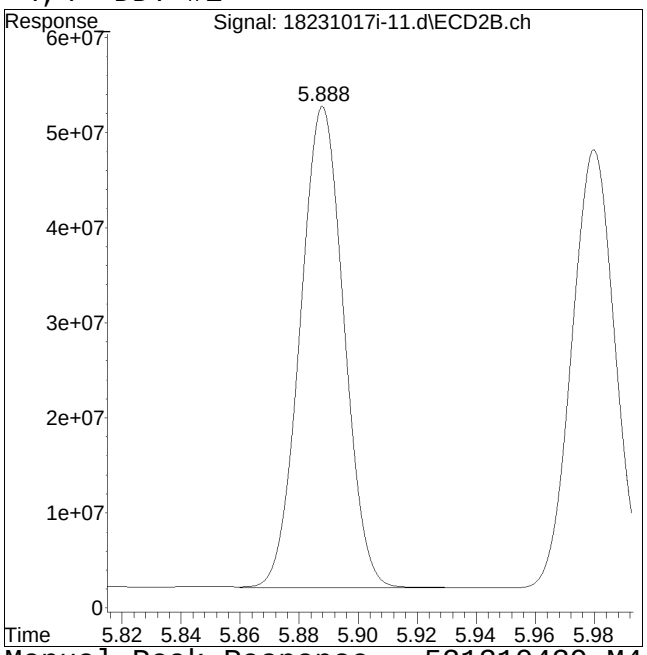
Original Peak Response = 607494049 Manual Peak Response = 587410673 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #59: 4,4'-DDT #2



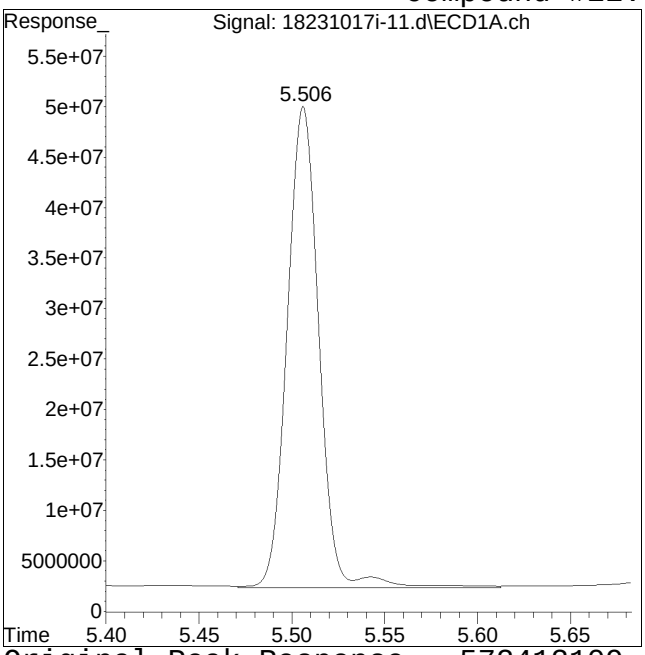


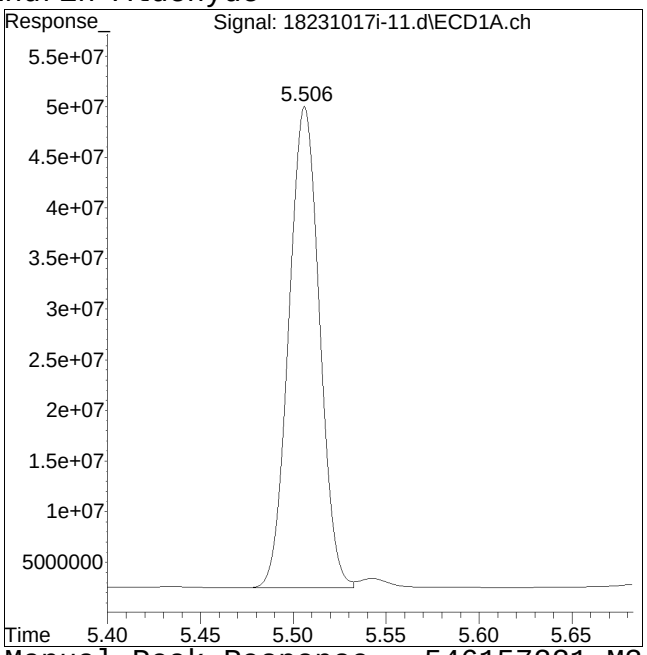
Original Peak Response = 525273045 Manual Peak Response = 521310439 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #22: Endrin Aldehyde



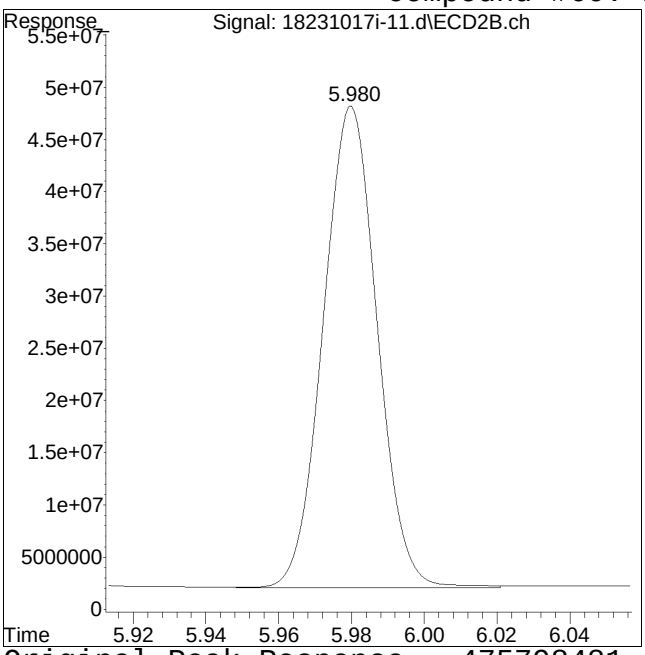


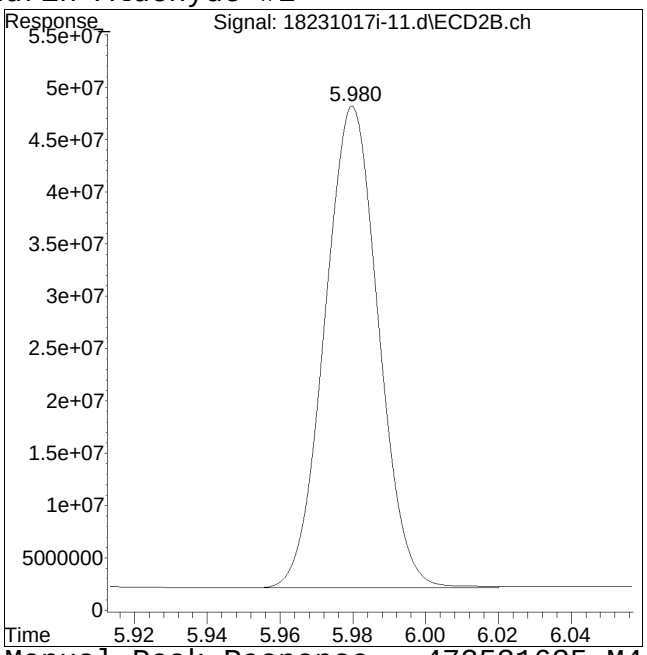
Original Peak Response = 572412109 Manual Peak Response = 546157221 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #60: Endrin Aldehyde #2



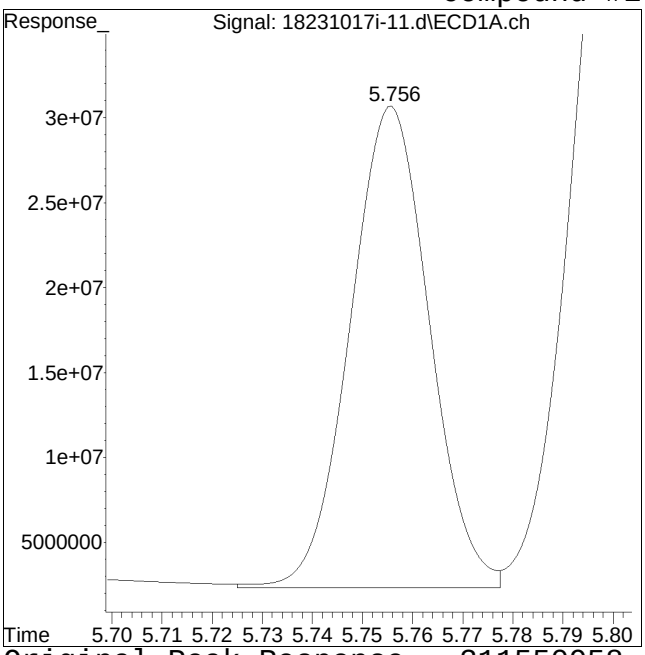


Original Peak Response = 475798481 Manual Peak Response = 472531635 M4
M4 = Poor automated baseline construction.

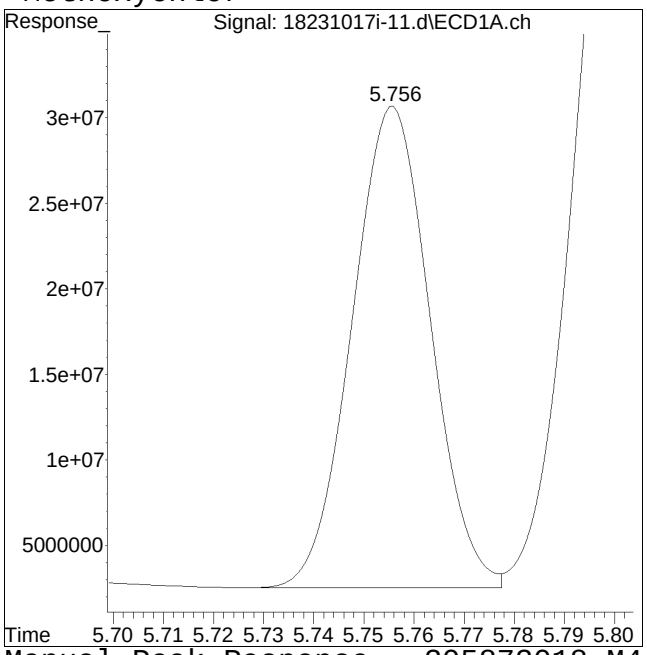
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #23: Methoxychlor



Original Peak Response = 311550958



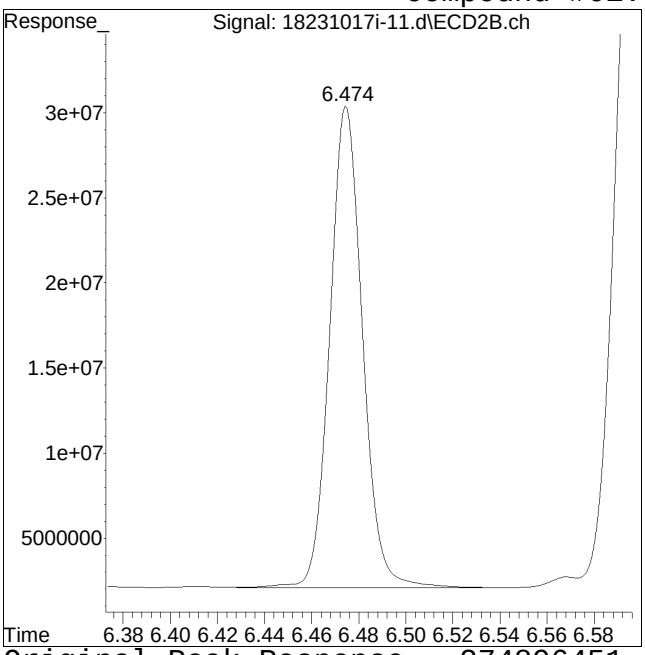
Manual Peak Response = 305873018 M4

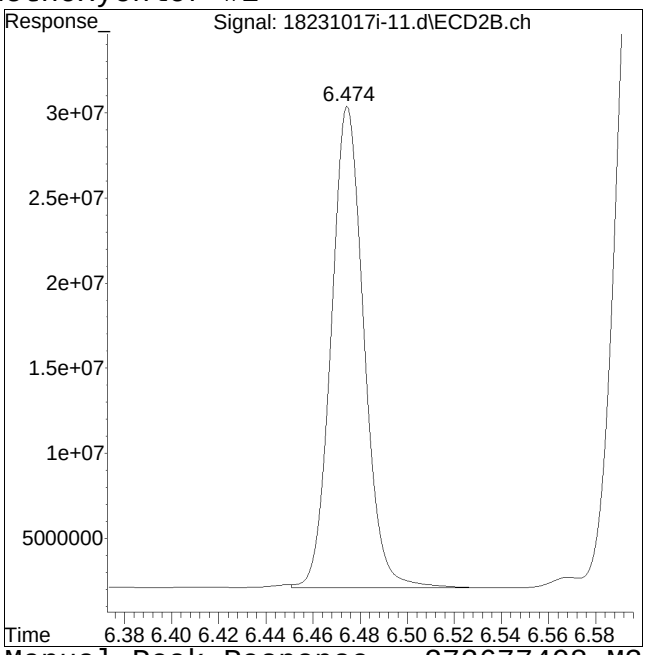
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #61: Methoxychlor #2



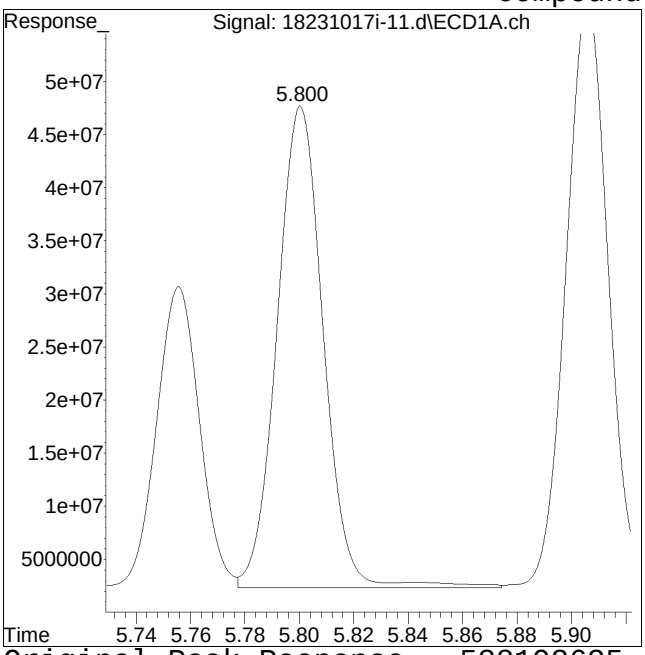


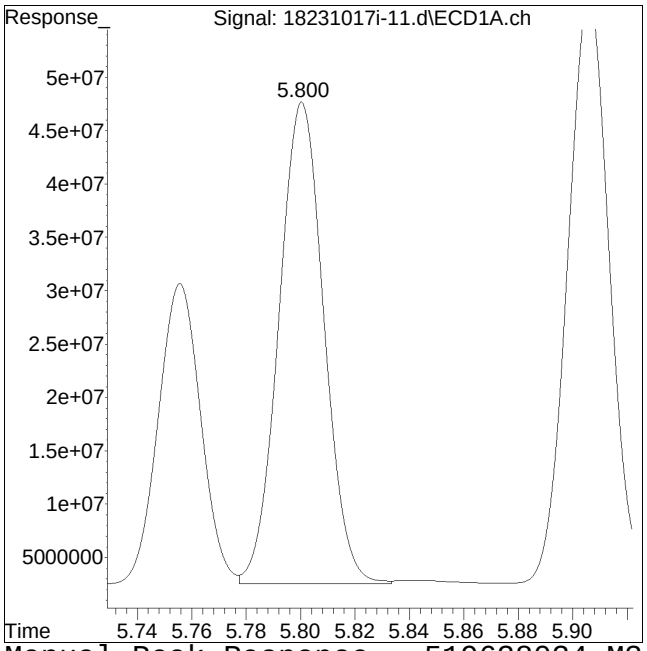
Original Peak Response = 274896451 Manual Peak Response = 272677408 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #24: Mirex



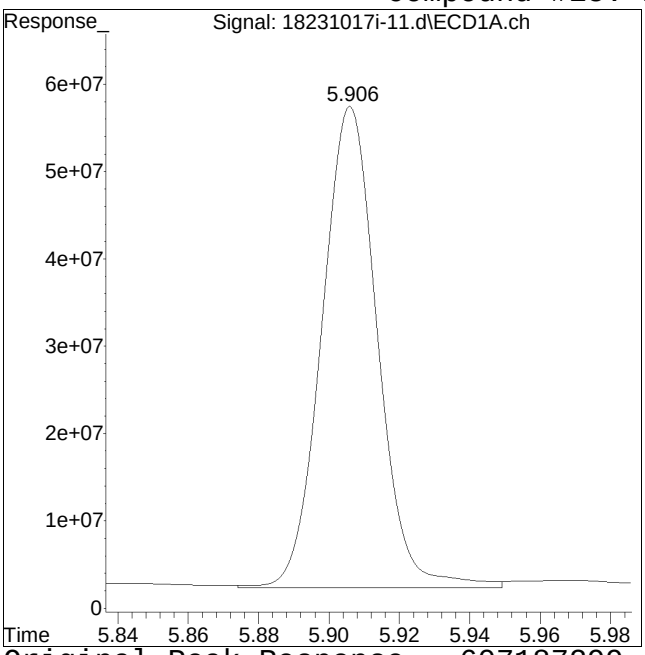


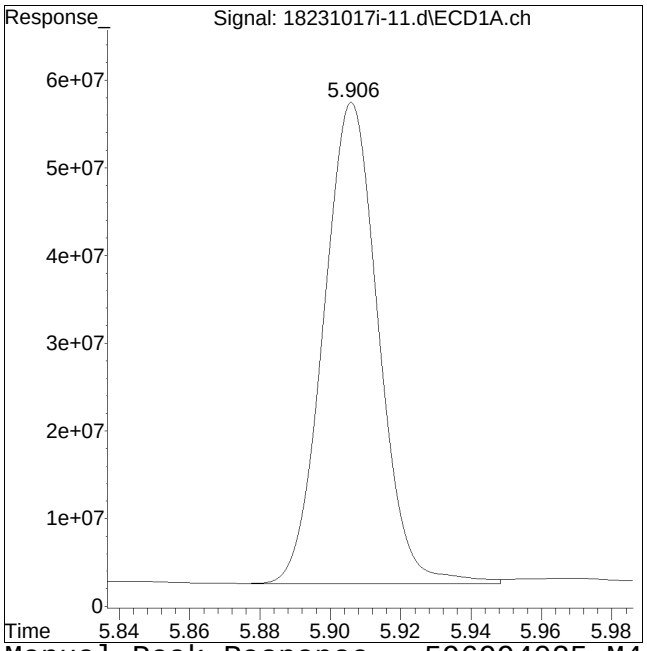
Original Peak Response = 538192625 Manual Peak Response = 519638034 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #25: Endosulfan Sulfate



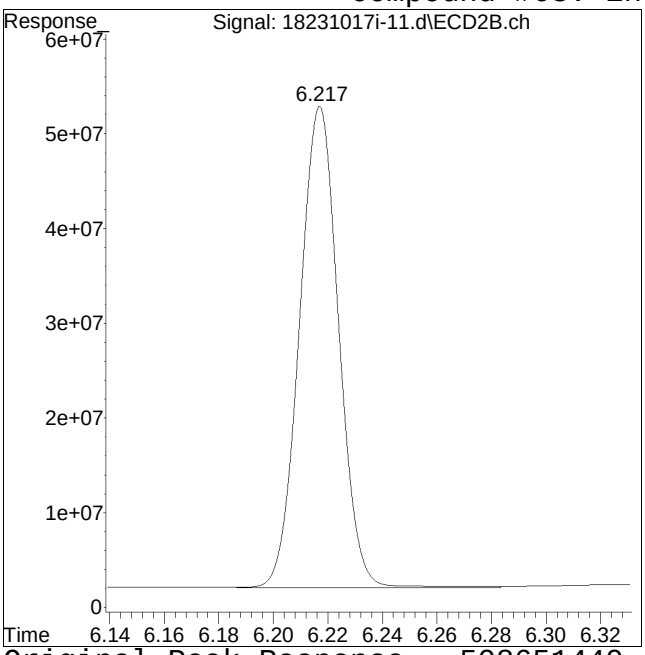


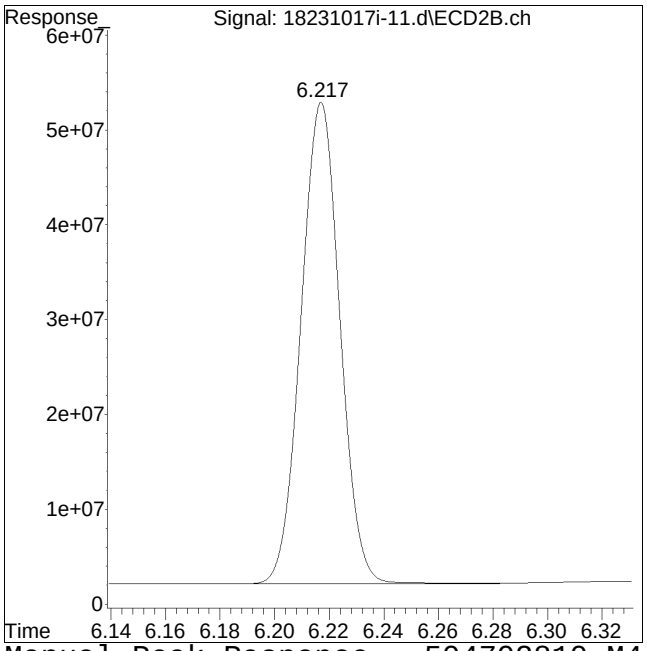
Original Peak Response = 607187299 Manual Peak Response = 596994025 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #63: Endosulfan Sulfate #2



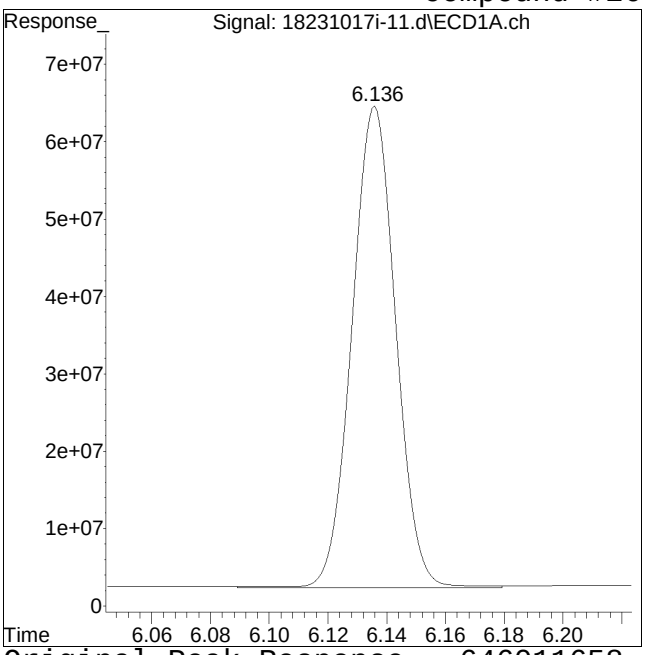


Original Peak Response = 508651440 Manual Peak Response = 504702810 M4
M4 = Poor automated baseline construction.

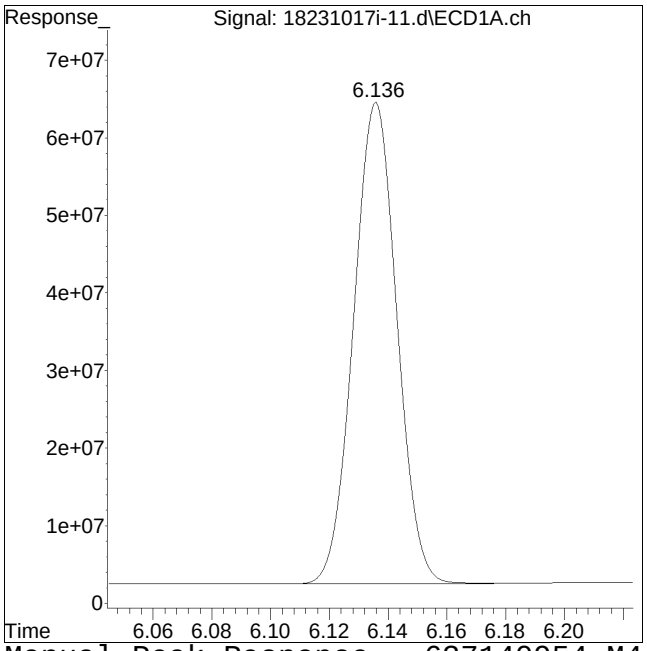
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #26: Endrin Ketone



Original Peak Response = 646011658



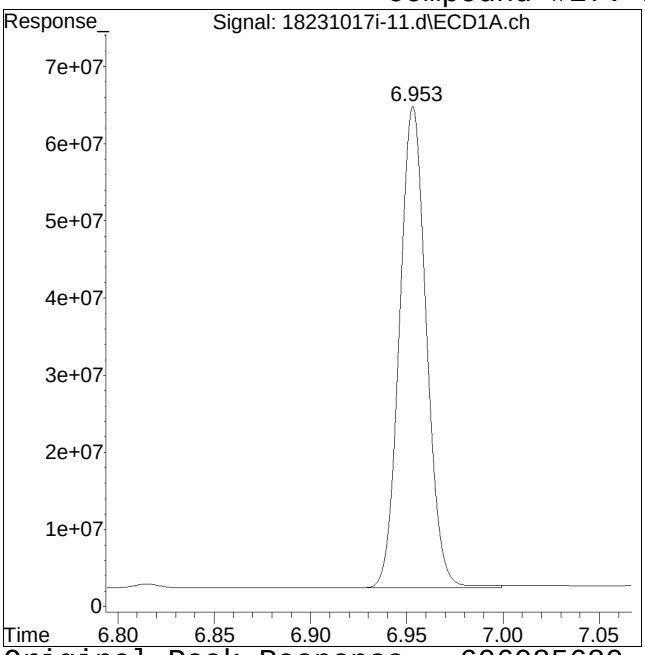
Manual Peak Response = 637140954 M4

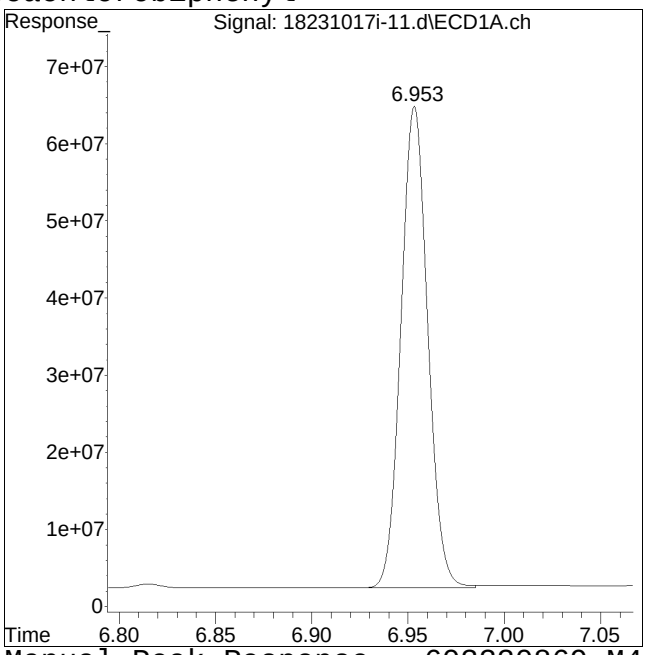
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-11.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:45 pm Instrument : Pest 18
Sample : il10pest,42e,,pp 11222 L0.Quant Date : 10/19/2023 8:57 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 606085680 Manual Peak Response = 603330869 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:57 pm
Operator : PEST18:ejl
Sample : il11pest,42e,,pp 11221 L0.4
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:10:25 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:05:05 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.722	1.770	89853029	77316806	25.000	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.155	2.319	1389.3E6	1239.4E6	378.798M3	385.659M3
	Spiked Amount	50.000	Range 30 - 150		Recovery =	757.60%#	771.32%#
27) s	Decachlorobi	6.953	7.523	1249.0E6	990.6E6	354.255M4	365.917
	Spiked Amount	50.000	Range 30 - 150		Recovery =	708.51%#	731.83%#
	Target Compounds						
3)	Hexachlorobe	2.397	2.657	1459.9E6	1320.0E6	375.118M3	379.186
4)	alpha-BHC	2.510	2.762	1959.3E6	1744.0E6	393.253M3	399.415
5)	gamma-BHC (l	2.730	3.053	1773.4E6	1580.9E6	392.109M3	398.029
6)	beta-BHC	2.798	3.128	775.2E6	697.1E6	379.689M3	387.598
7)	delta-BHC	2.934	3.397	1834.6E6	1631.0E6	395.966M4	402.350
8)	Heptachlor	3.096	3.448	1616.6E6	1490.2E6	388.106M3	396.284
9)	Aldrin	3.345	3.764	1630.7E6	1485.9E6	388.490M4	397.828
10)	Alachlor	3.484	3.665	235.6E6	188.1E6	348.001M4	354.434M3
11)	Chlorpyrifos	3.580	4.017	682.5E6	642.3E6	347.322M4	358.933
12)	Heptachlor E	3.907	4.379	1494.8E6	1370.3E6	378.097M3	388.889
13)	gamma-Chlord	4.035	4.599	1391.0E6	1265.1E6	385.629M4	397.148
14)	alpha-Chlord	4.170	4.772	1550.1E6	1391.3E6	382.374M3	390.747
15)	4,4'-DDE	4.277	4.994	1620.7E6	1457.6E6	388.597M4	395.375
16)	Endosulfan I	4.305	4.834	1381.9E6	1275.2E6	368.664M4	379.628M3
17)	Dieldrin	4.569	5.147	1531.4E6	1367.9E6	383.552M4	394.003M4
18)	Endrin	4.825	5.459	1677.1E6	1359.1E6	404.612M4	387.676M3

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:57 pm
Operator : PEST18:ejl
Sample : il11pest,42e,,pp 11221 L0.4
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:10:25 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:05:05 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
19)	4,4'-DDD	4.952	5.601	1304.4E6	1217.9E6	386.757M4	418.934M4
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	5.252	5.888	1333.1E6	1176.8E6	424.611M3	420.586M4
22)	Endrin Aldeh	5.506	5.980	1152.0E6	1011.9E6	374.545M3	385.410M4
23)	Methoxychlor	5.756	6.475	663.1E6	599.1E6	393.236M4	397.883
24)	Mirex	5.800	6.596	1094.8E6	897.9E6	357.213M3	362.868M3
25)	Endosulfan S	5.906	6.217	1264.6E6	1079.7E6	371.504M4	381.597M3
26)	Endrin Keton	6.136	6.636	1356.4E6	1203.0E6	380.770M4	391.920
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:57 pm
Operator : PEST18:ejl
Sample : il11pest,42e,,pp 11221 L0.4
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:10:25 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:05:05 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

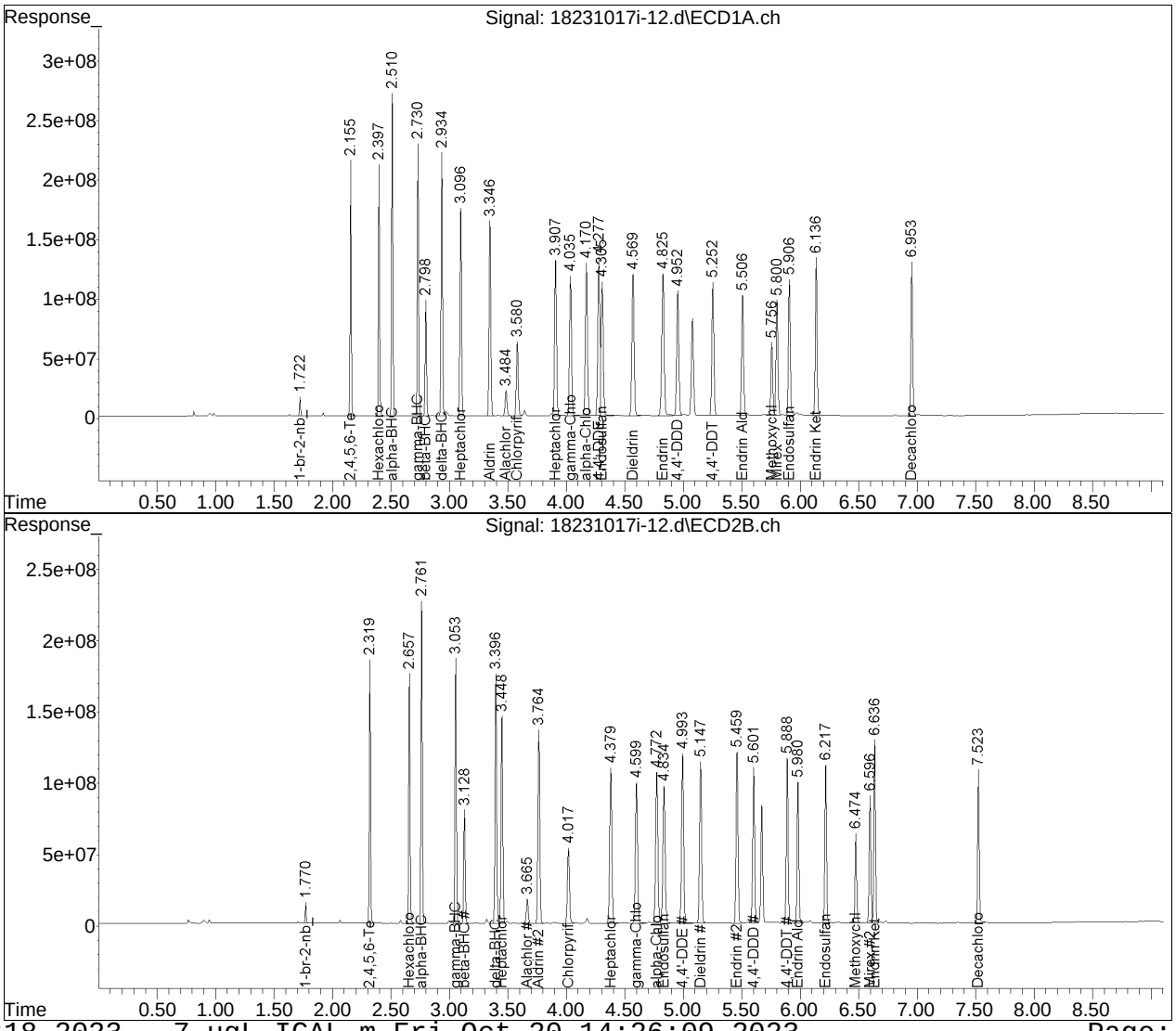
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 1:57 pm
Operator : PEST18:ejl
Sample : il11pest,42e,,pp 11221 L0.4
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 09:10:25 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 09:05:05 2023
Response via : Initial Calibration
Integrator: ChemStation

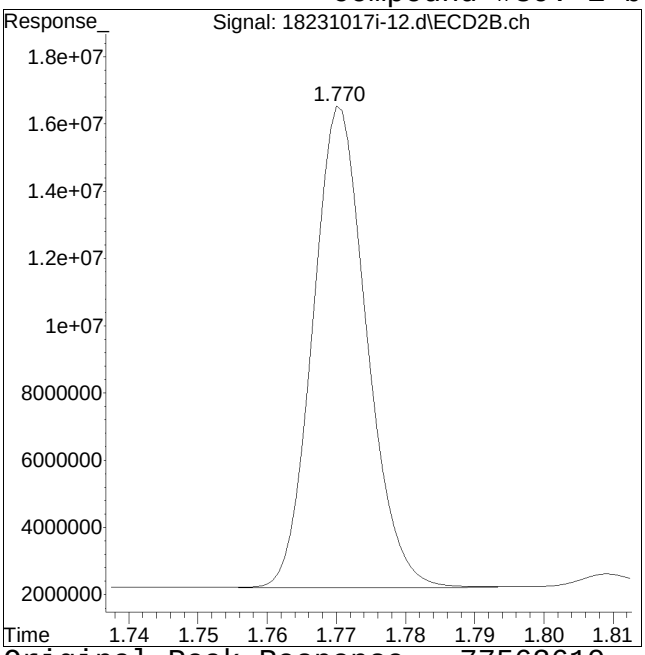
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

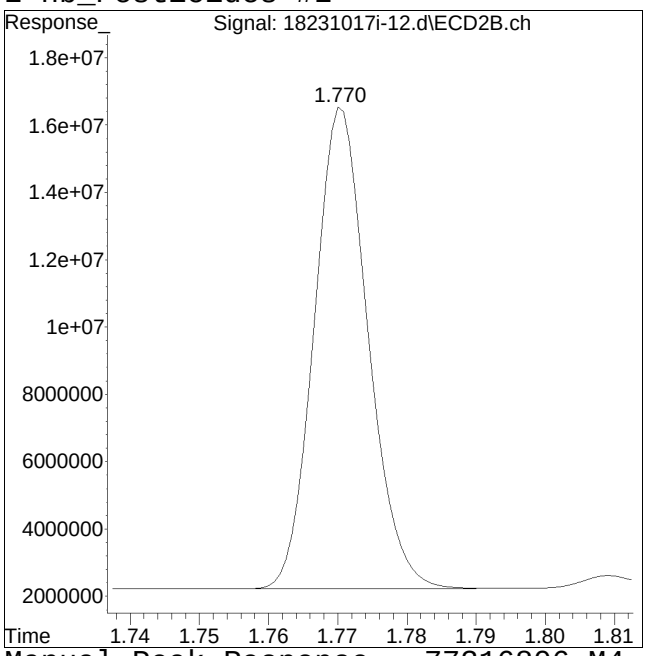


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #39: 1-br-2-nb_Pesticides #2



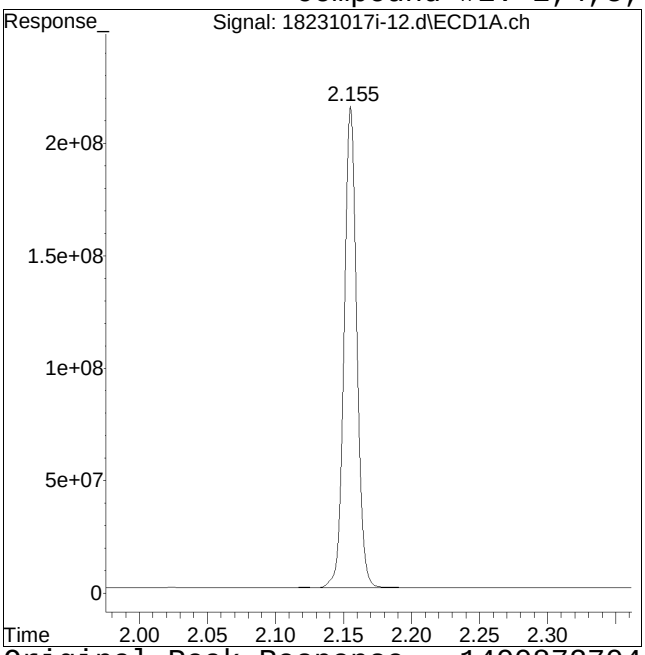


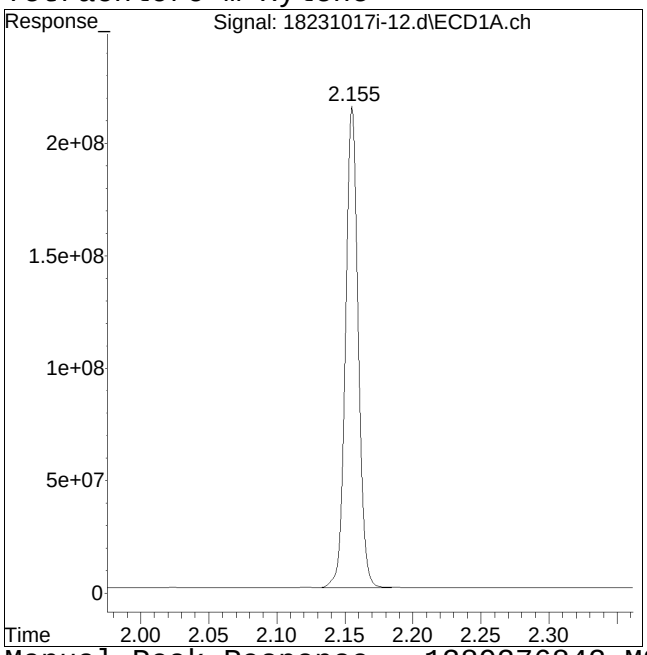
Original Peak Response = 77563610 Manual Peak Response = 77316806 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



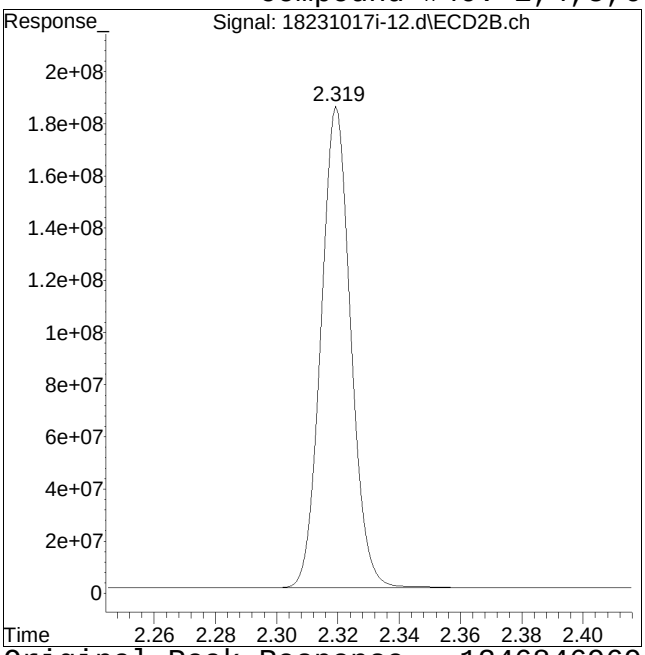


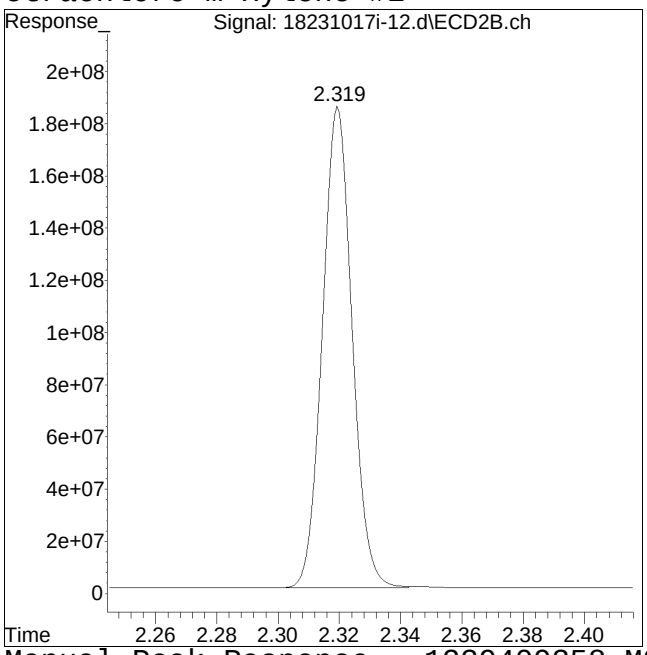
Original Peak Response = 1400872704 Manual Peak Response = 1389276842 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



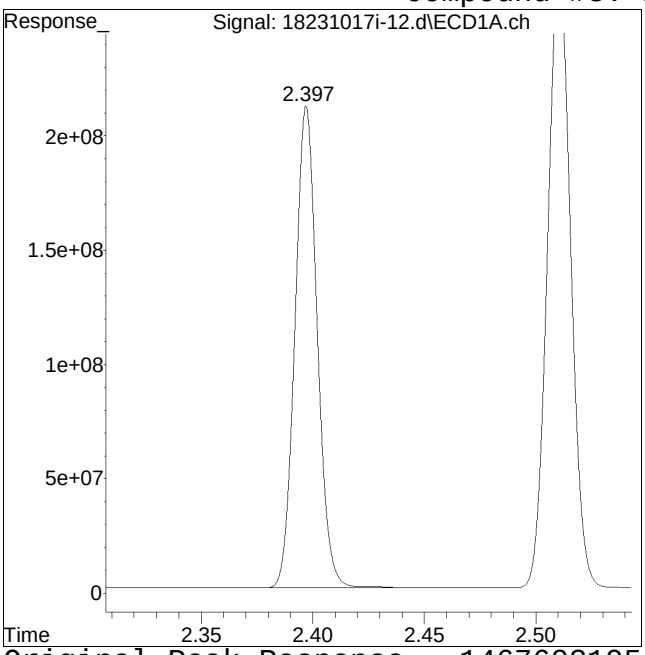


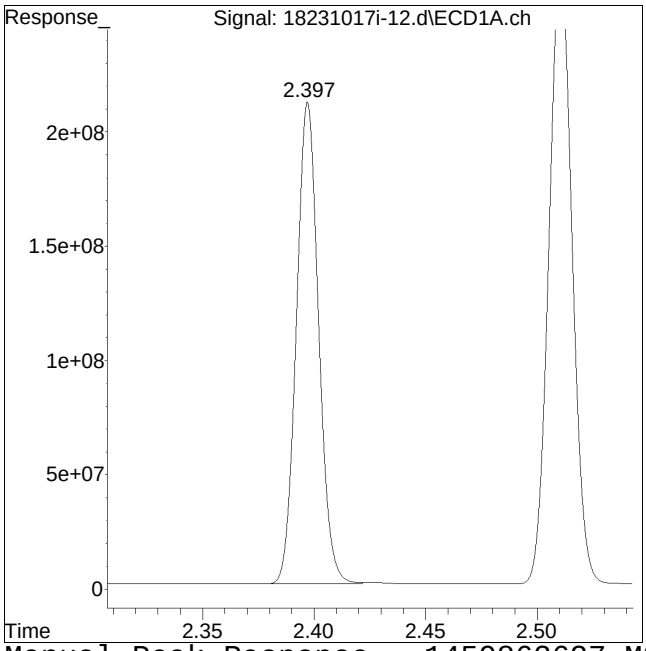
Original Peak Response = 1246846969 Manual Peak Response = 1239409358 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #3: Hexachlorobenzene



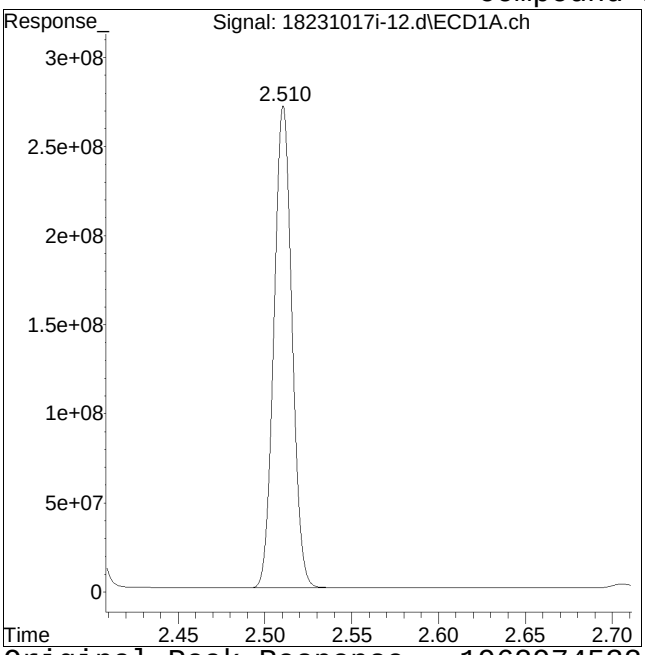


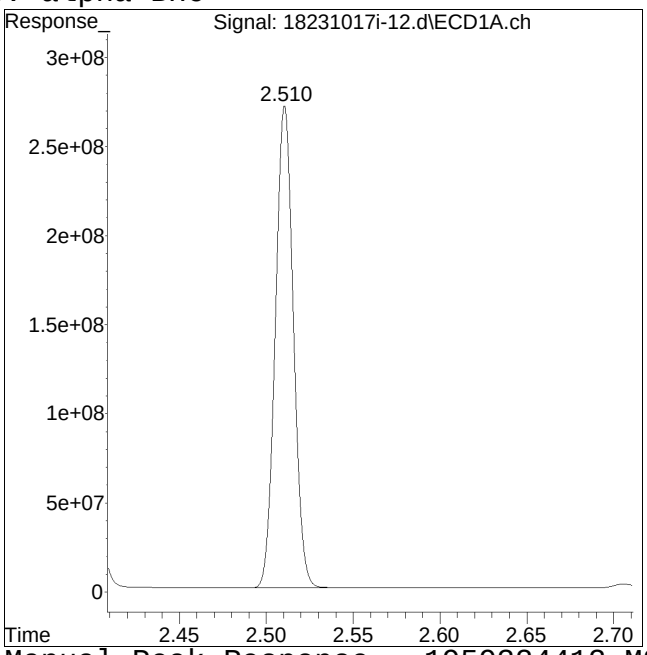
Original Peak Response = 1467603195 Manual Peak Response = 1459862627 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #4: alpha-BHC



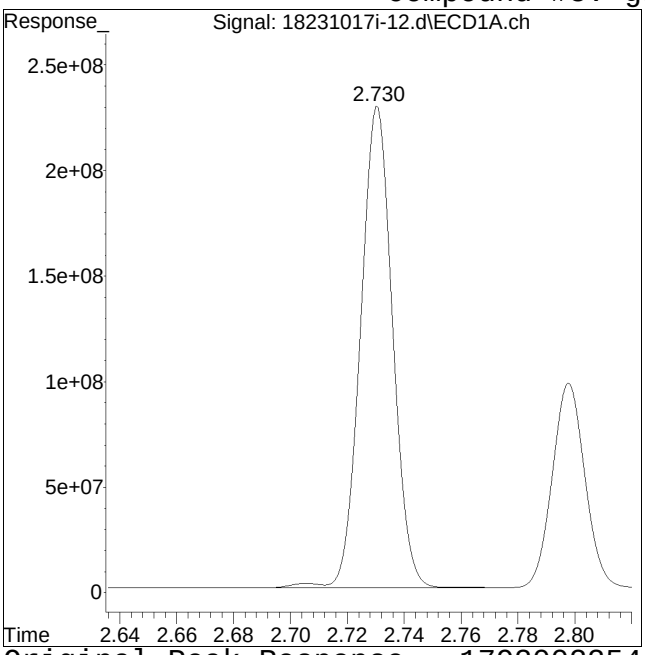


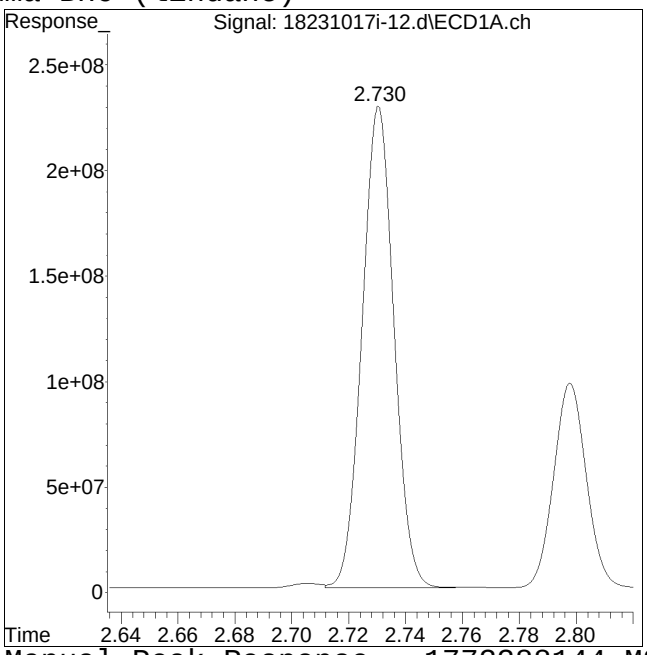
Original Peak Response = 1962974532 Manual Peak Response = 1959324412 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #5: gamma-BHC (lindane)



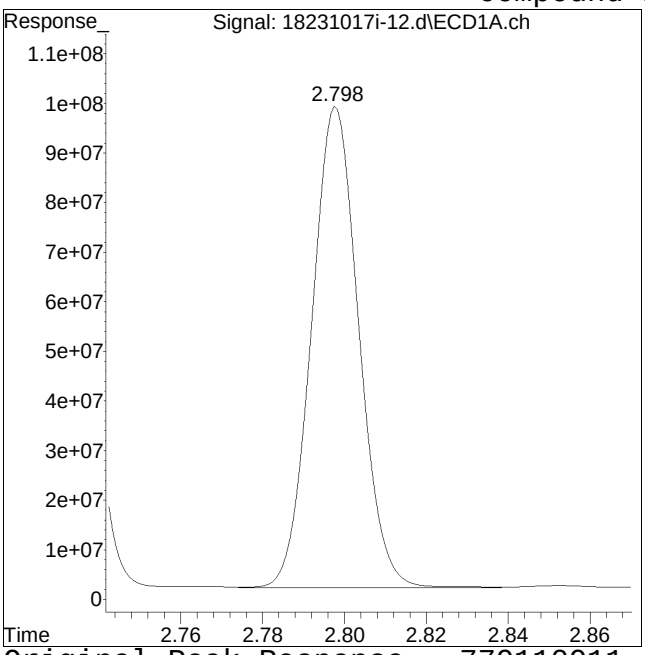


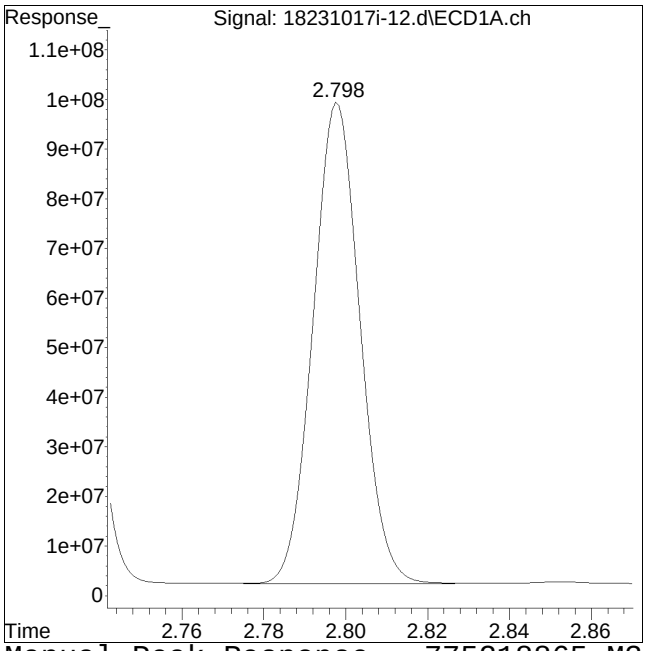
Original Peak Response = 1792002254 Manual Peak Response = 1773388144 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #6: beta-BHC



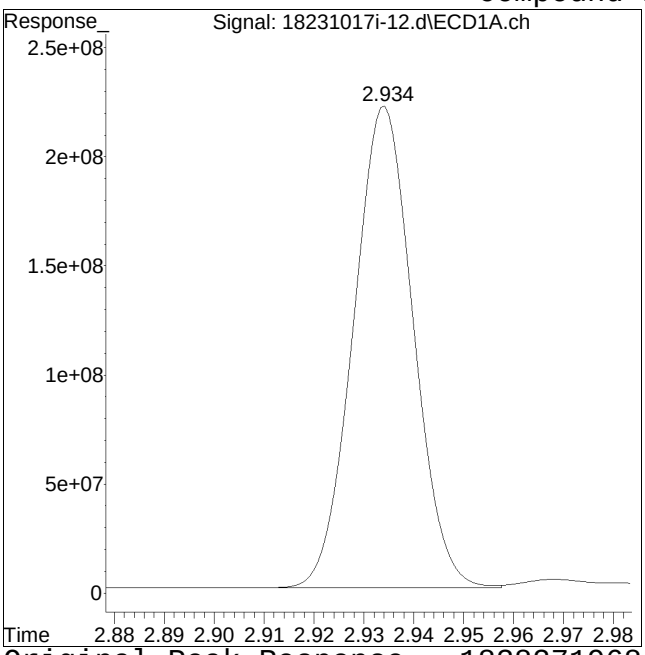


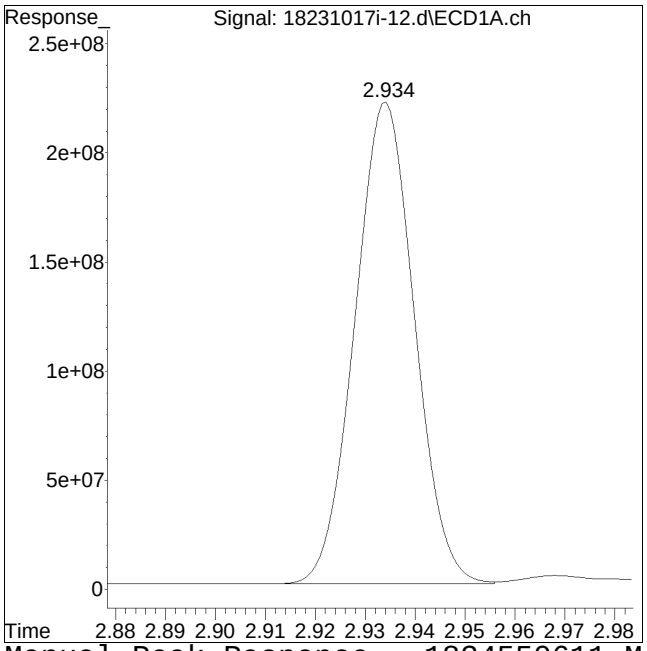
Original Peak Response = 779110911 Manual Peak Response = 775218865 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #7: delta-BHC



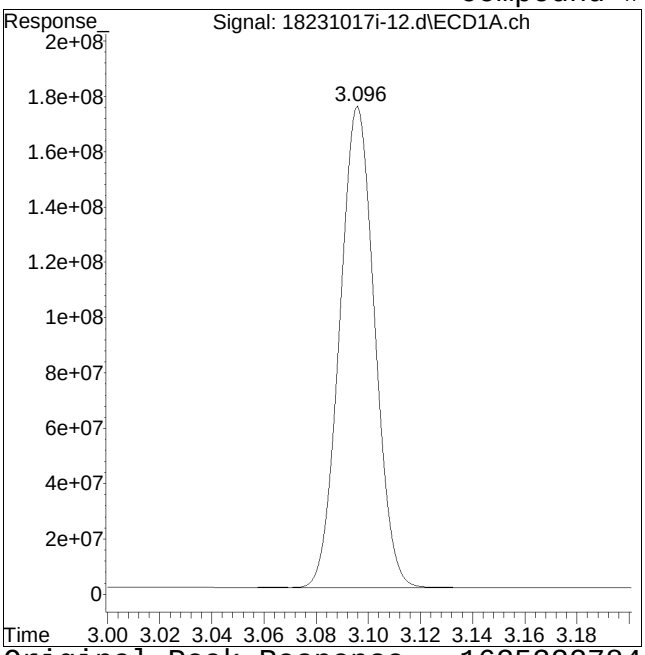


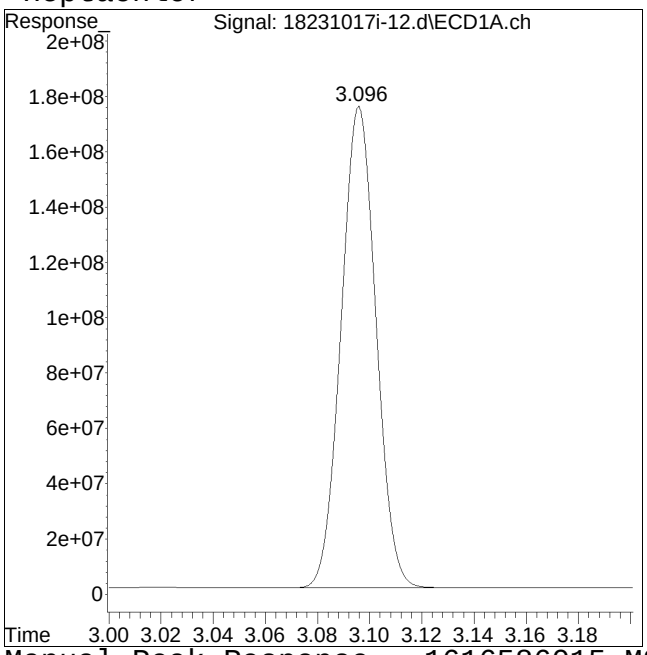
Original Peak Response = 1838271968 Manual Peak Response = 1834550611 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #8: Heptachlor



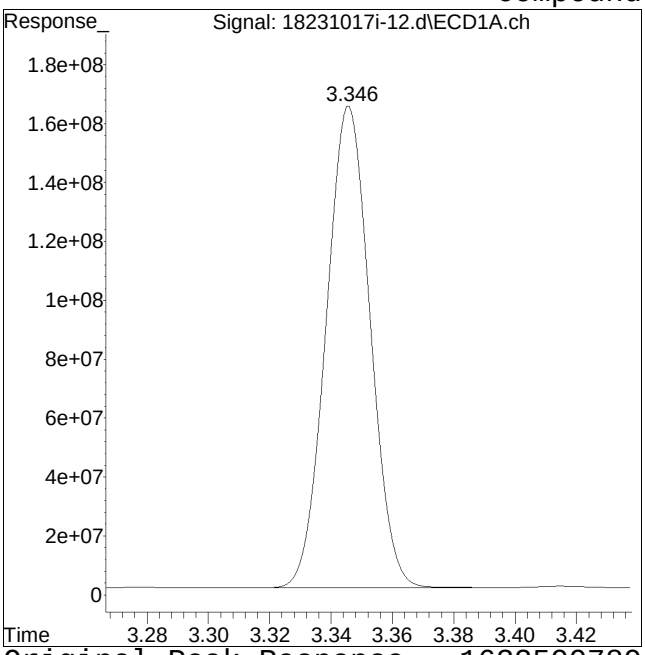


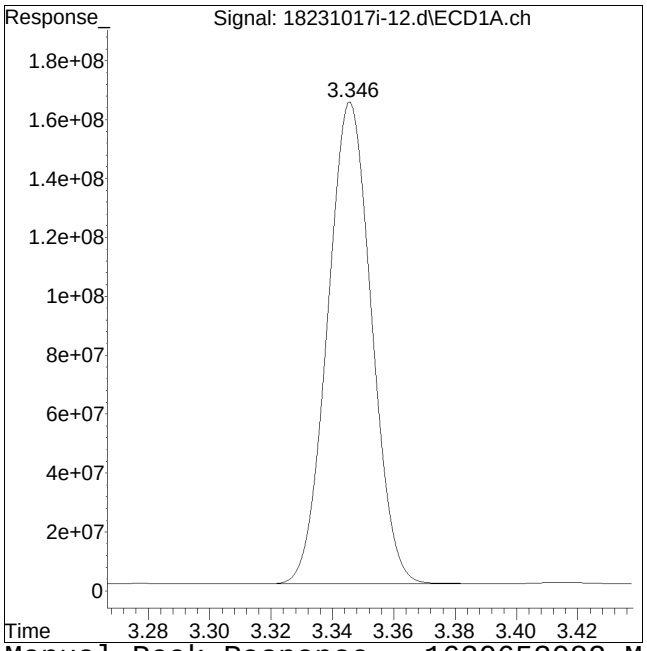
Original Peak Response = 1625322784 Manual Peak Response = 1616586015 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #9: Aldrin



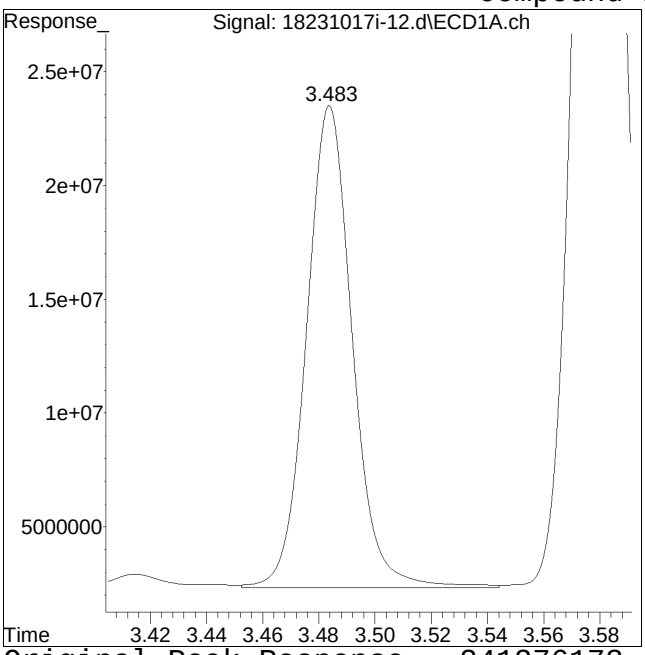


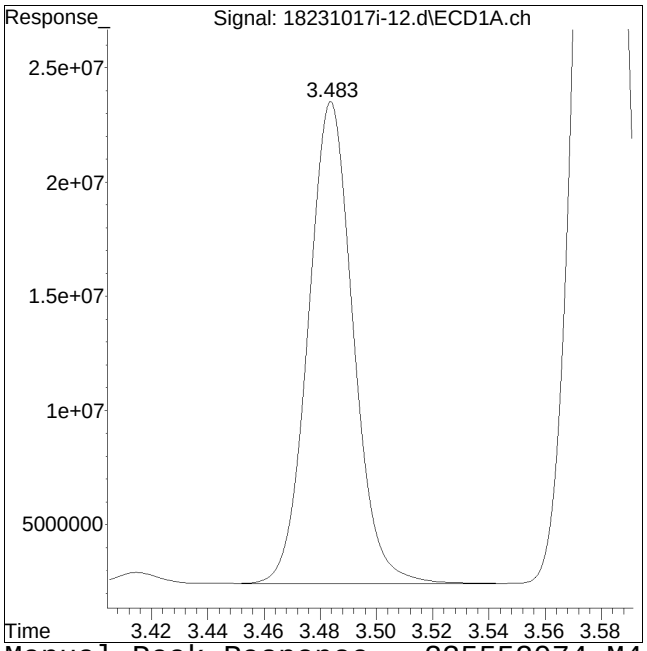
Original Peak Response = 1632599789 Manual Peak Response = 1630653082 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #10: Alachlor



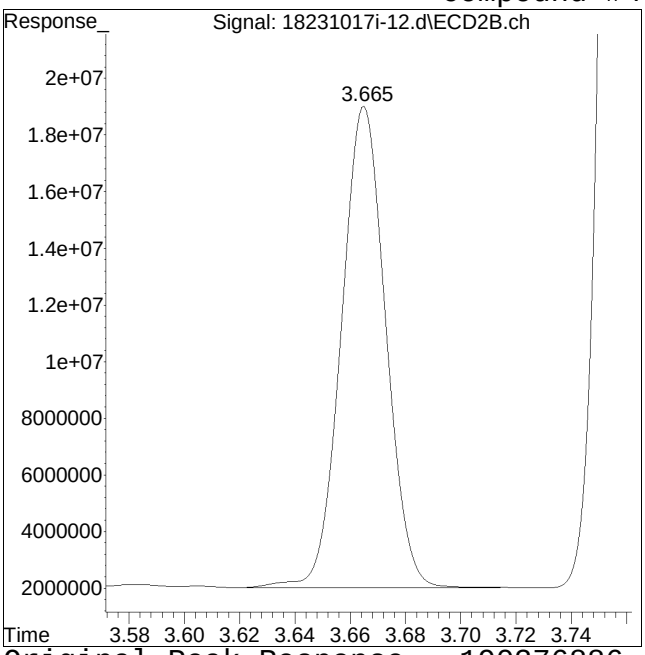


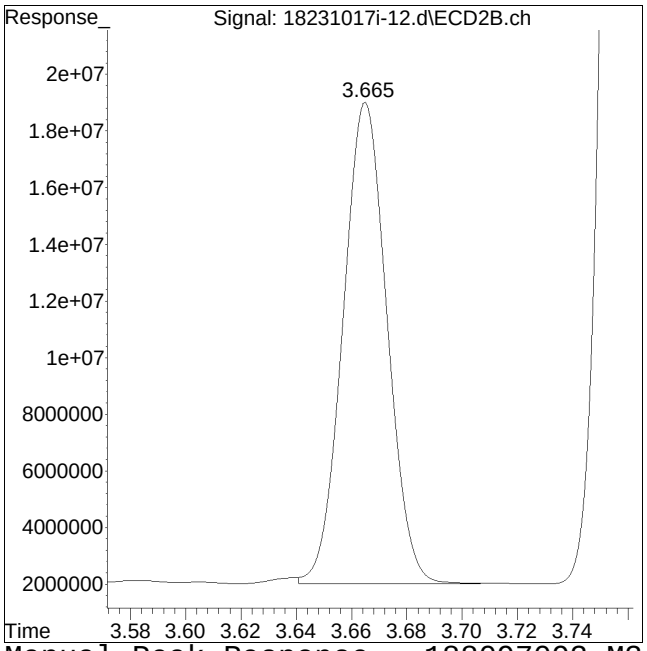
Original Peak Response = 241276173 Manual Peak Response = 235552074 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #48: Alachlor #2



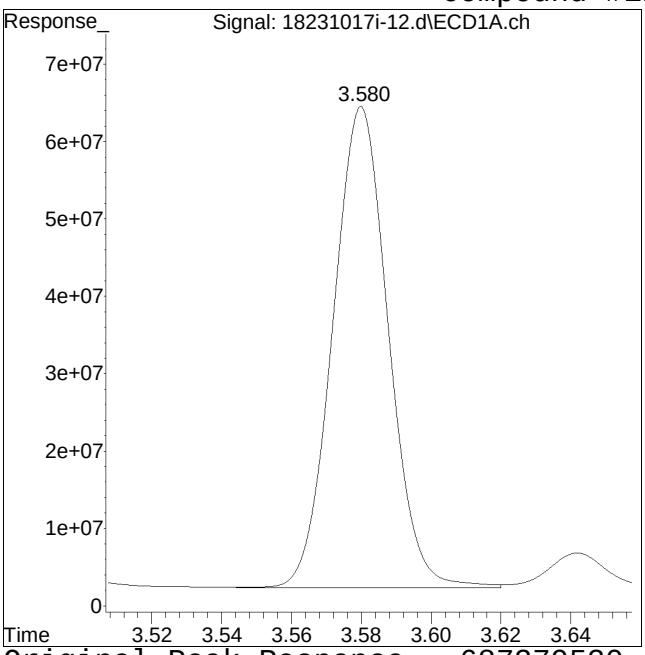


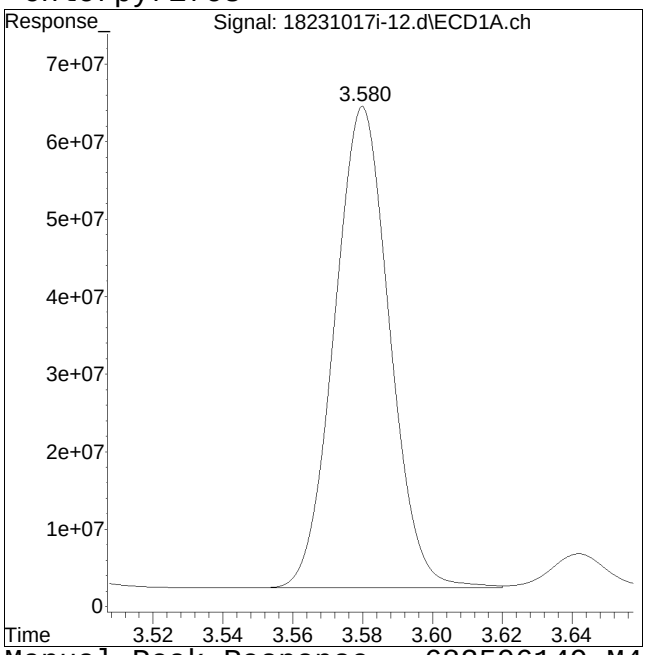
Original Peak Response = 190376886 Manual Peak Response = 188097093 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #11: Chlorpyrifos



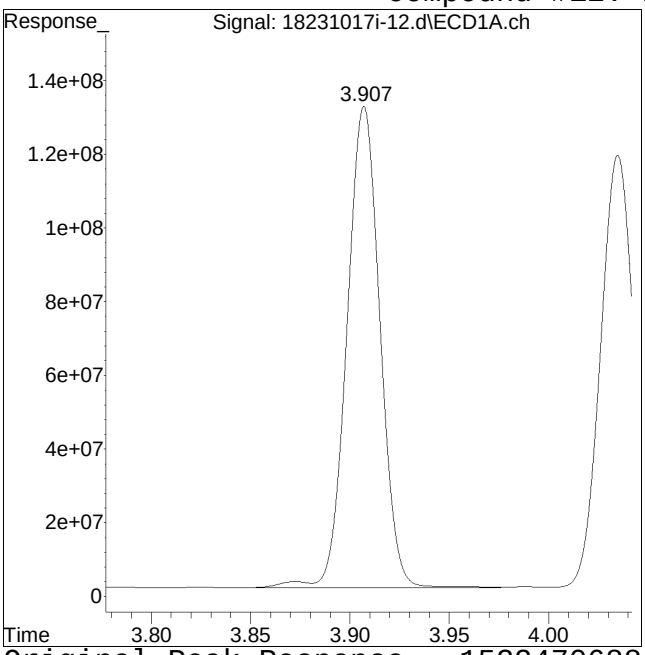


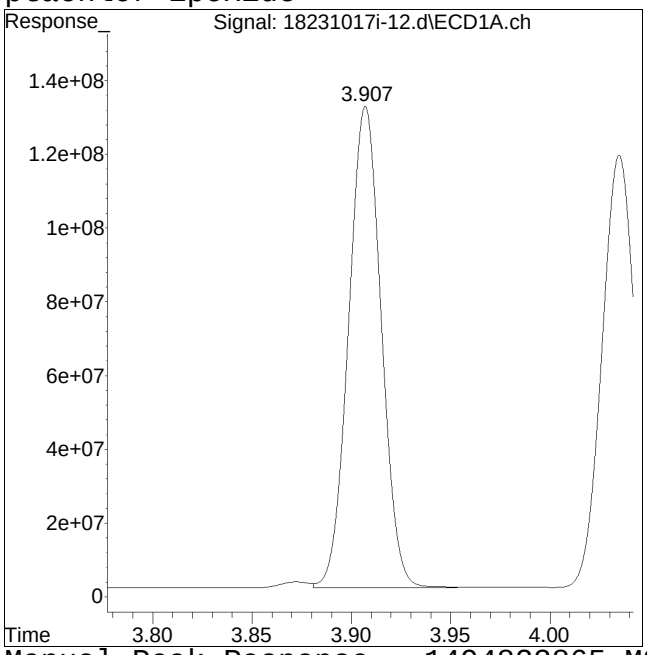
Original Peak Response = 687379530 Manual Peak Response = 682506149 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #12: Heptachlor Epoxide



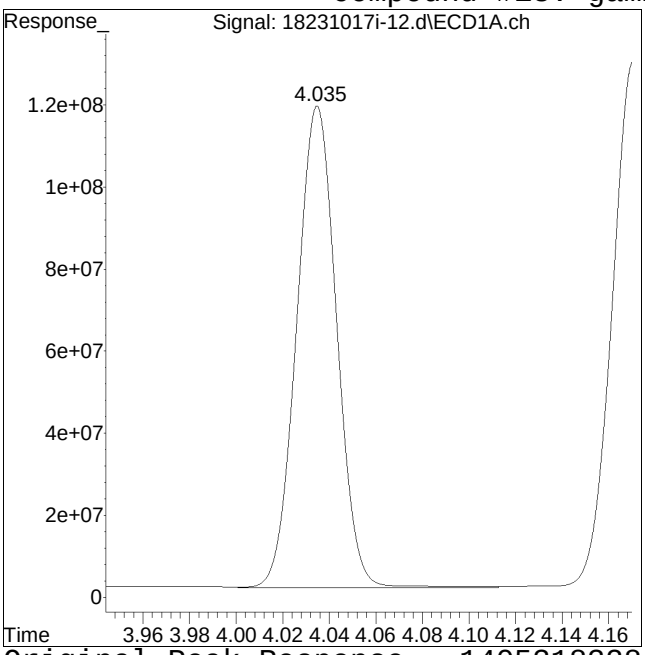


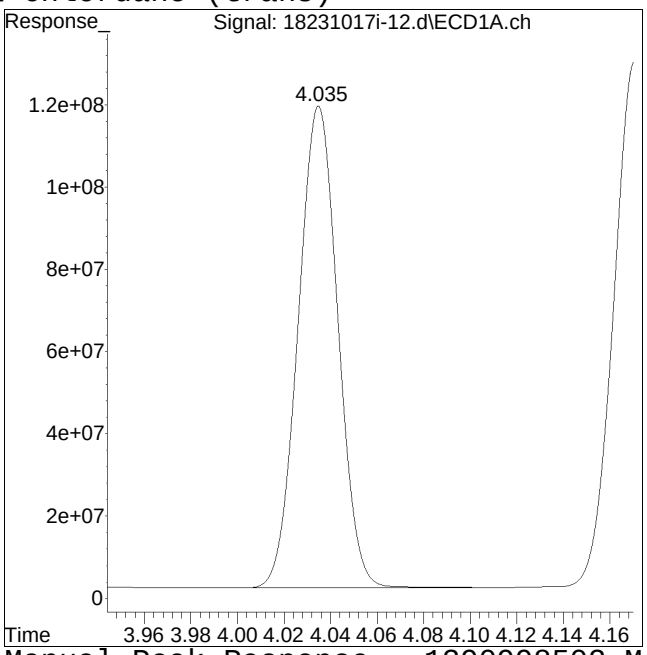
Original Peak Response = 1522470688 Manual Peak Response = 1494823865 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #13: gamma-Chlordane (trans)



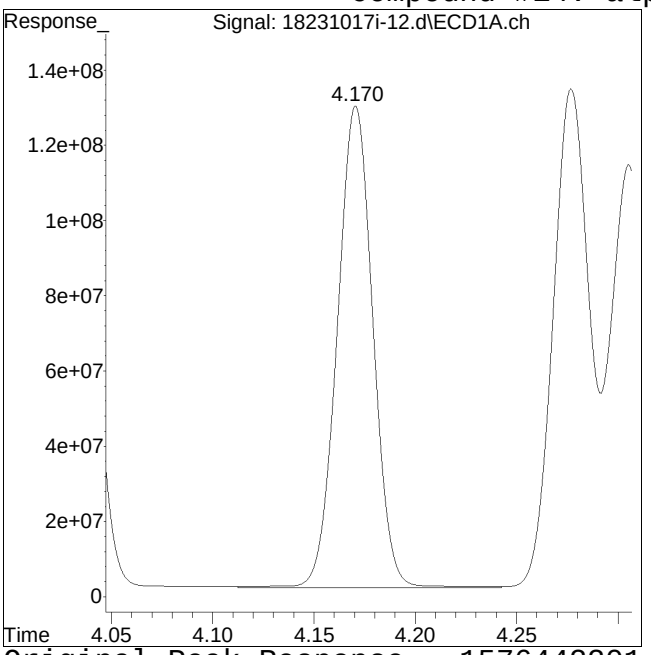


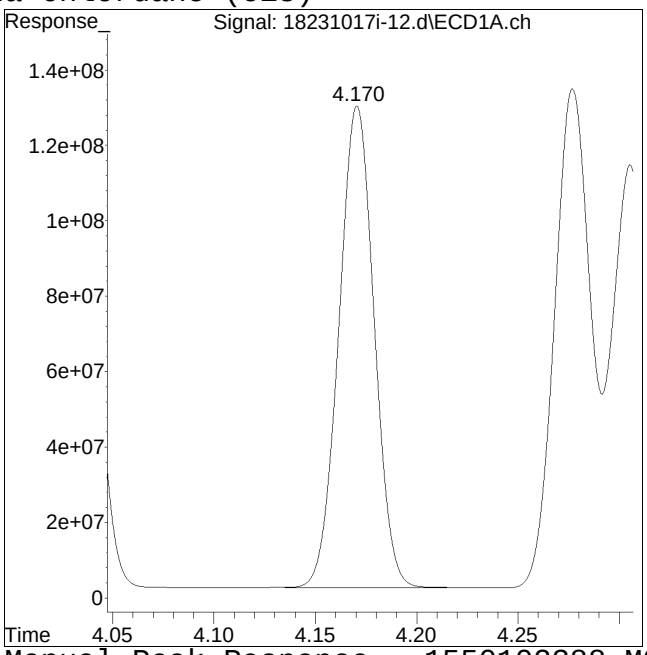
Original Peak Response = 1405318328 Manual Peak Response = 1390998502 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #14: alpha-Chlordane (cis)



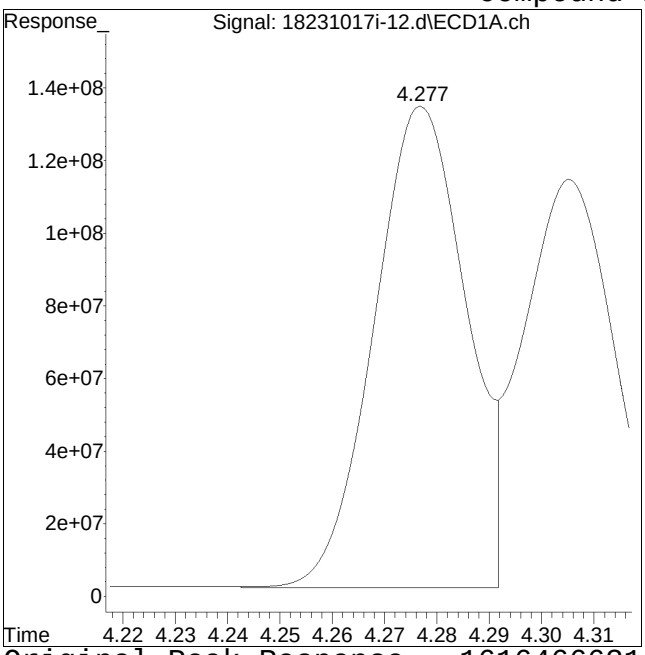


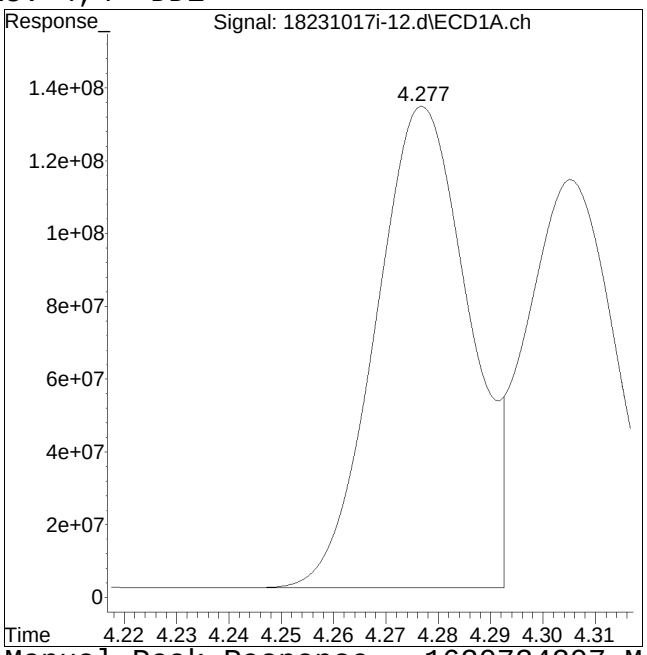
Original Peak Response = 1576442201 Manual Peak Response = 1550102388 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #15: 4,4'-DDE



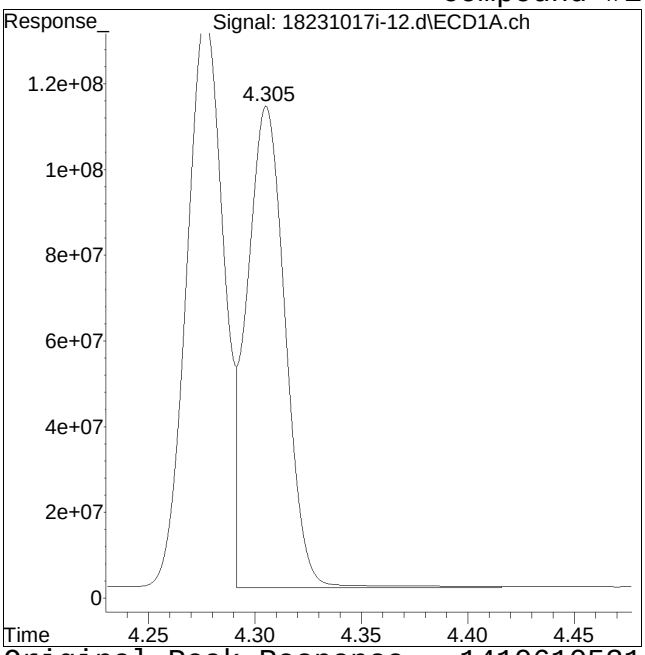


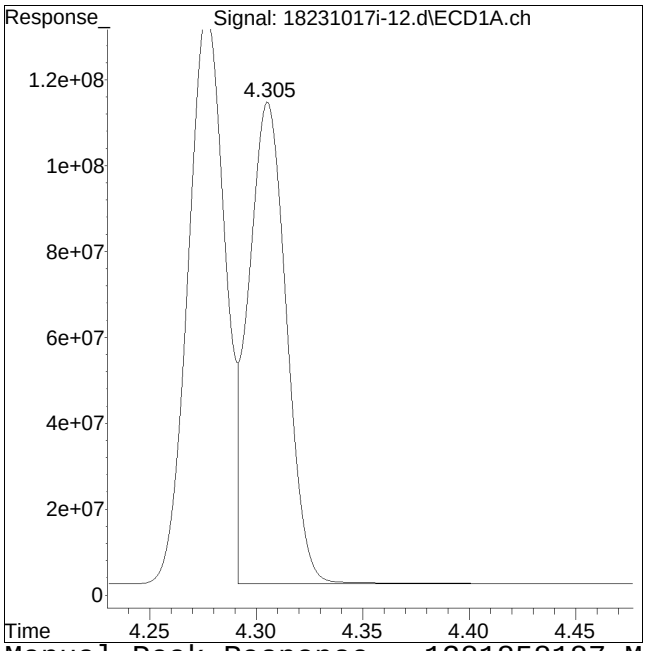
Original Peak Response = 1616466631 Manual Peak Response = 1620734207 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #16: Endosulfan I



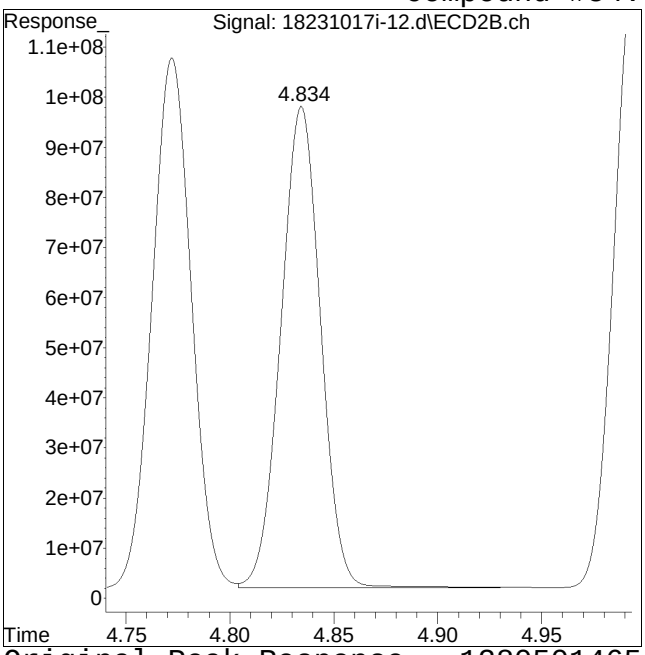


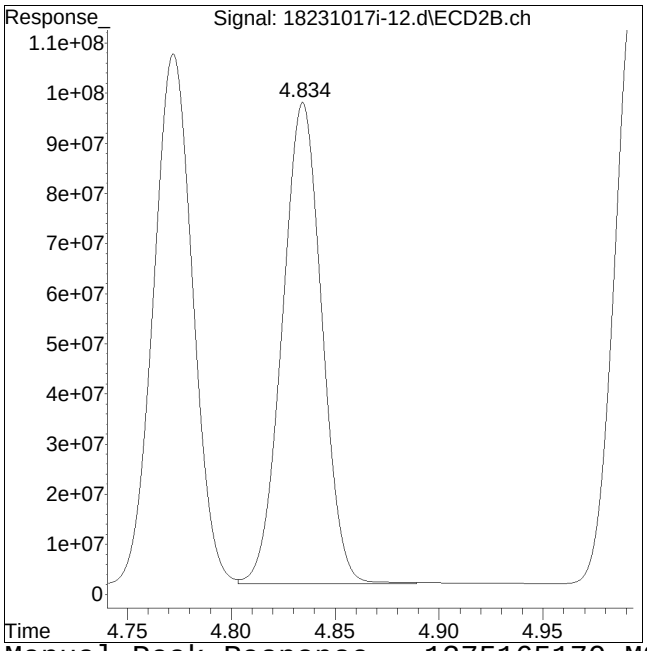
Original Peak Response = 1410610531 Manual Peak Response = 1381858187 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #54: Endosulfan I #2



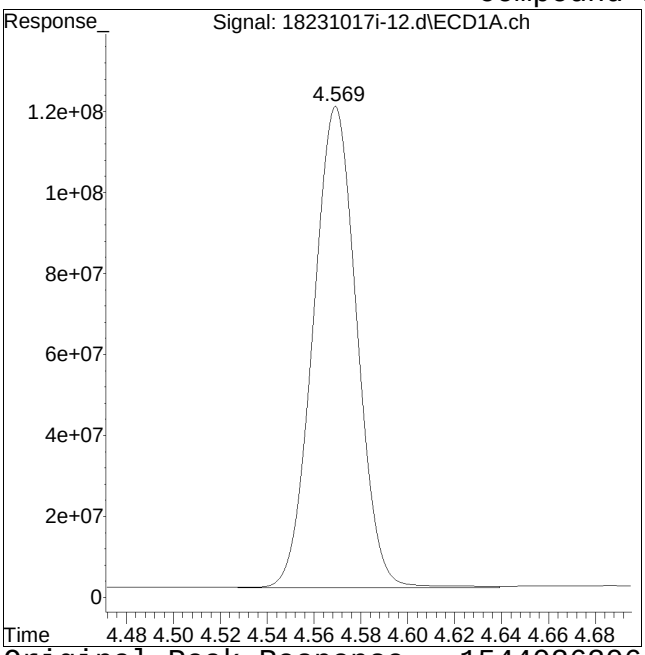


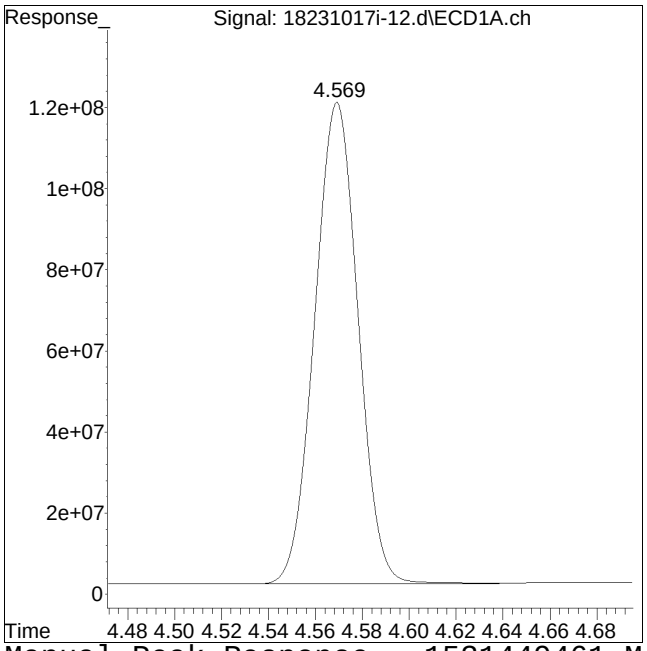
Original Peak Response = 1280501465 Manual Peak Response = 1275165170 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #17: Dieldrin



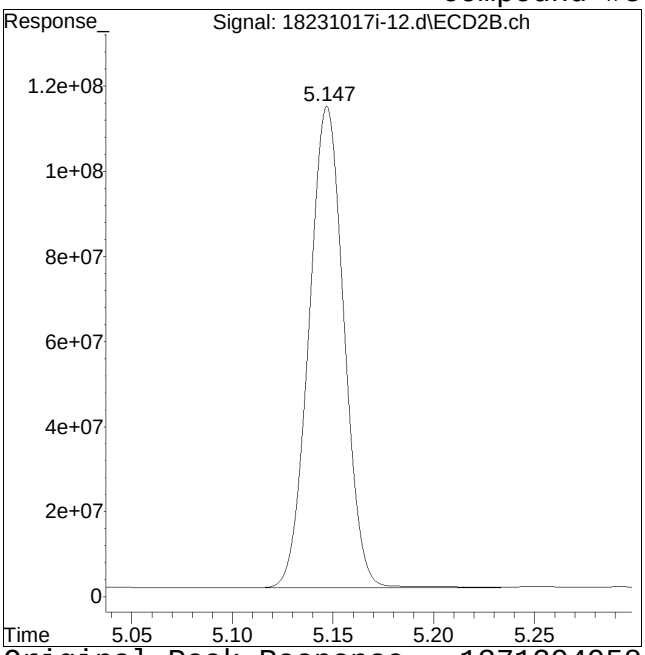


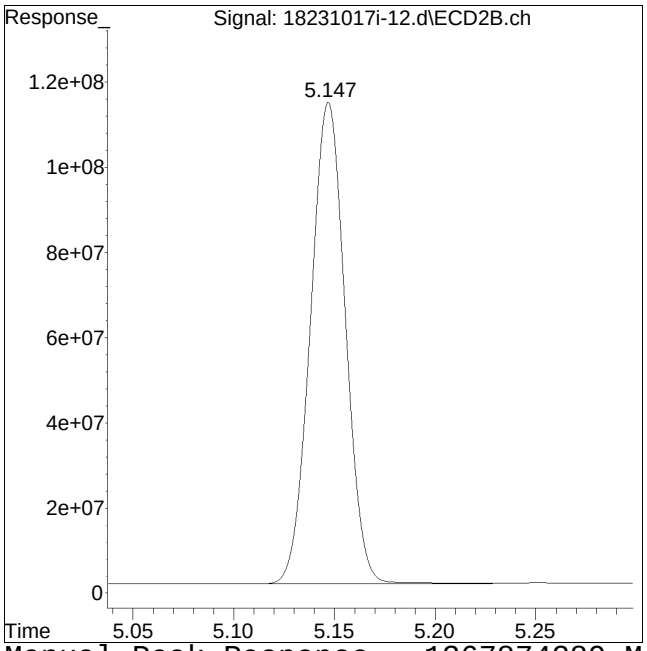
Original Peak Response = 1544026206 Manual Peak Response = 1531449461 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #55: Dieldrin #2



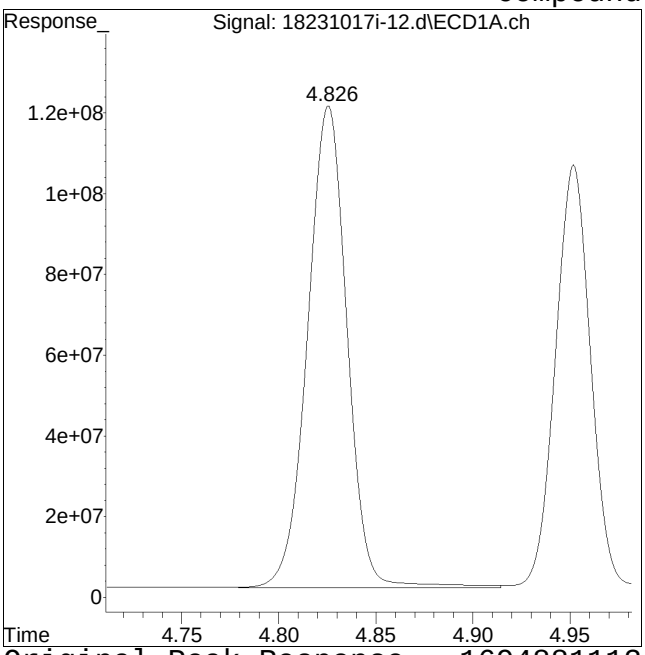


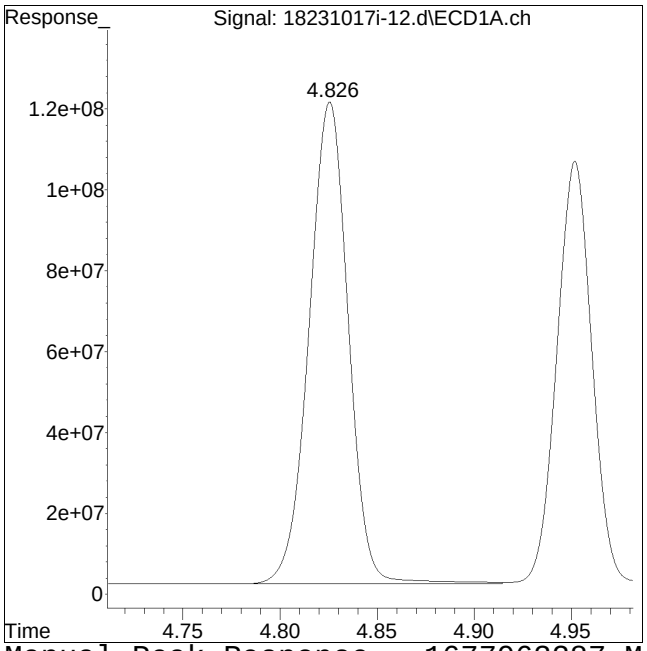
Original Peak Response = 1371294958 Manual Peak Response = 1367874289 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #18: Endrin



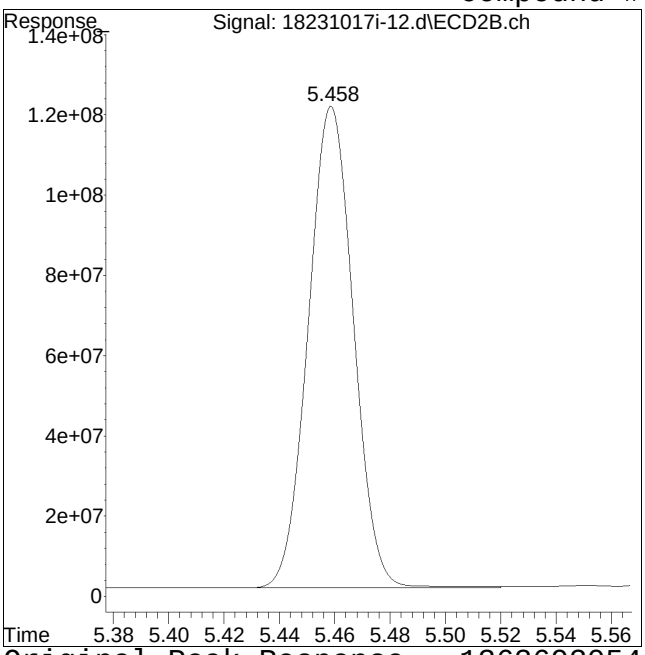


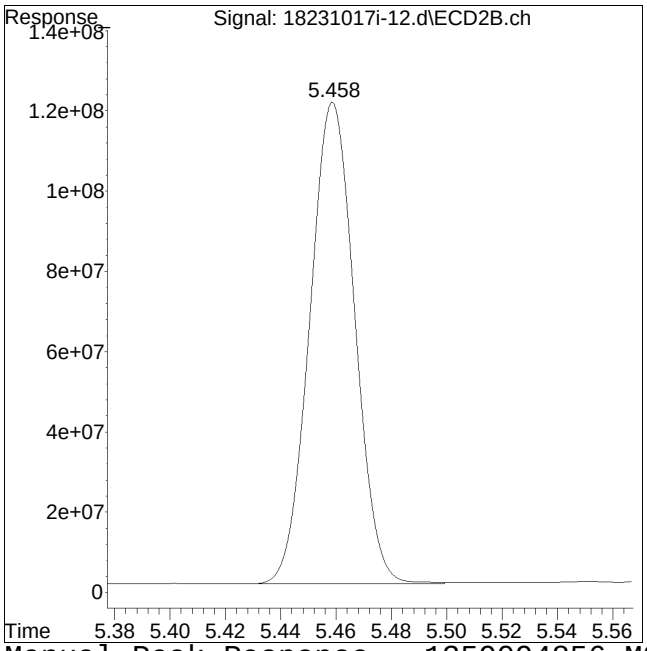
Original Peak Response = 1694881113 Manual Peak Response = 1677063287 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #56: Endrin #2



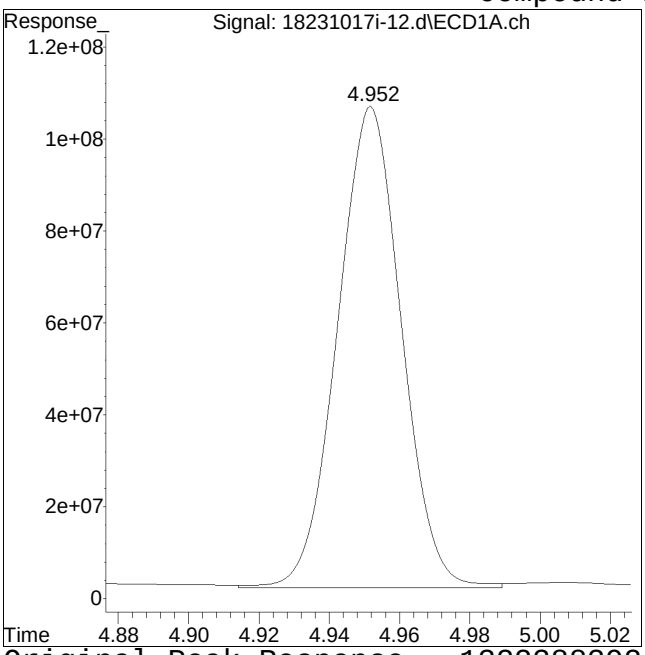


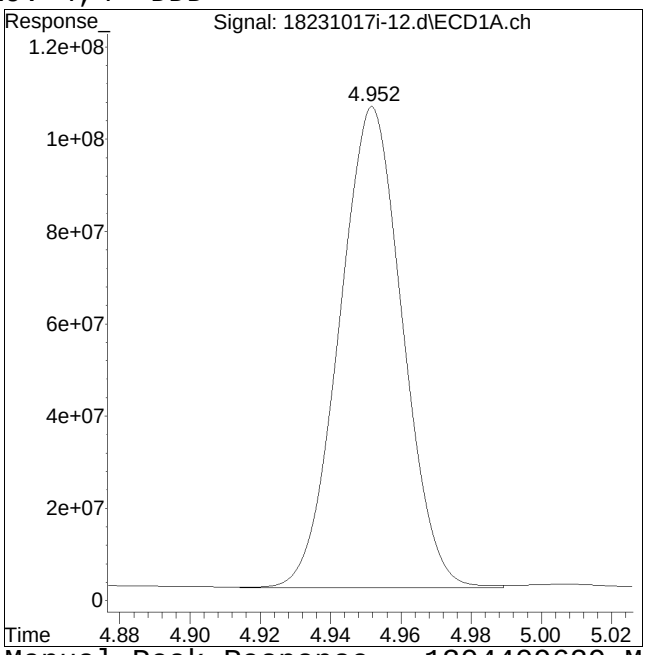
Original Peak Response = 1363693054 Manual Peak Response = 1359094856 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #19: 4,4'-DDD



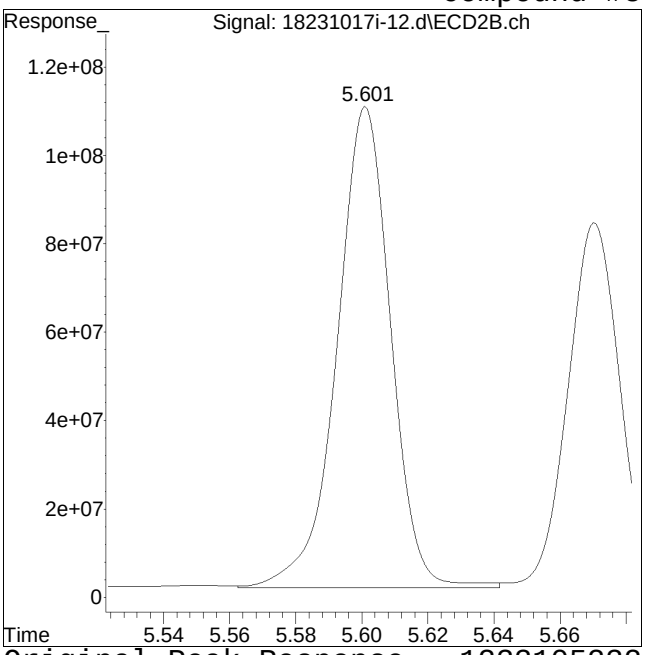


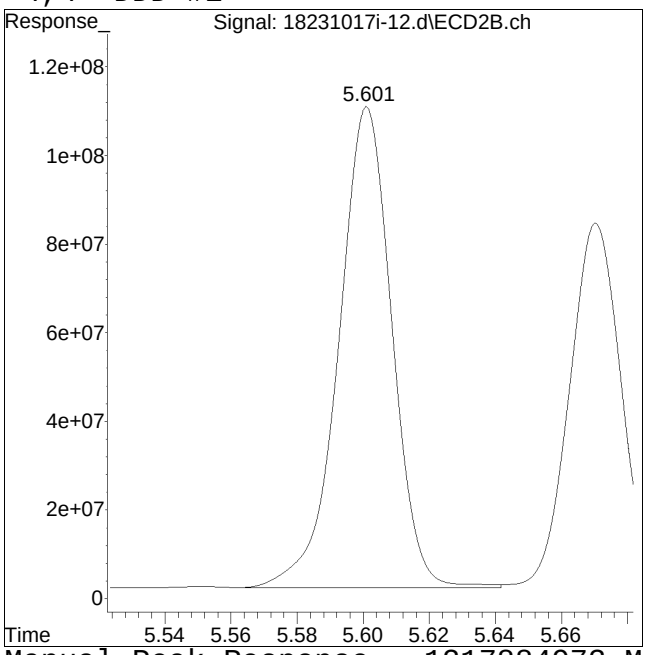
Original Peak Response = 1322388392 Manual Peak Response = 1304409629 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #57: 4,4'-DDD #2



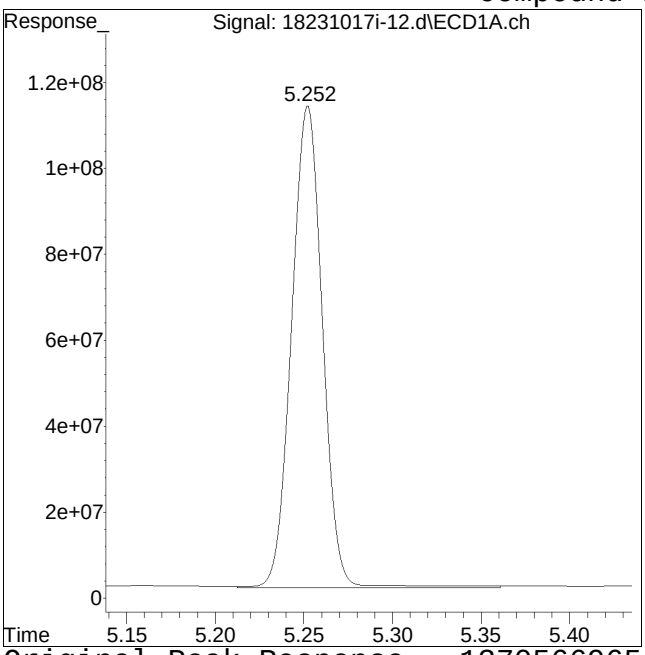


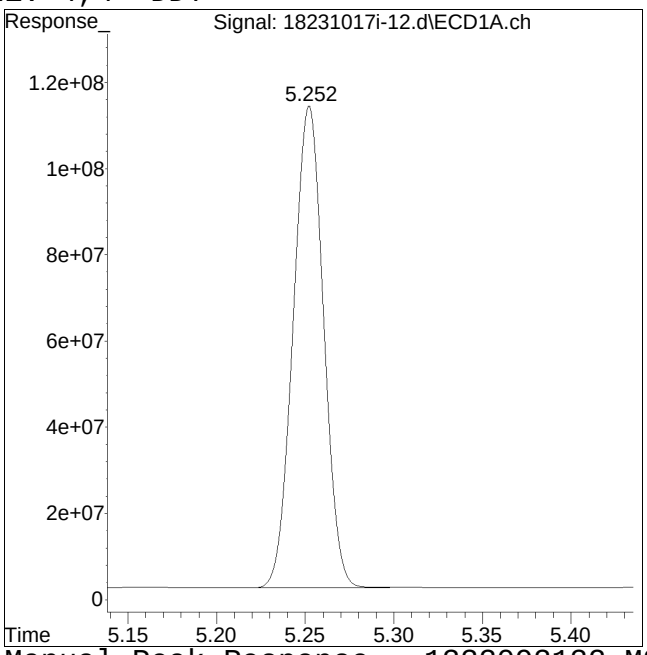
Original Peak Response = 1233105232 Manual Peak Response = 1217884973 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #21: 4,4'-DDT



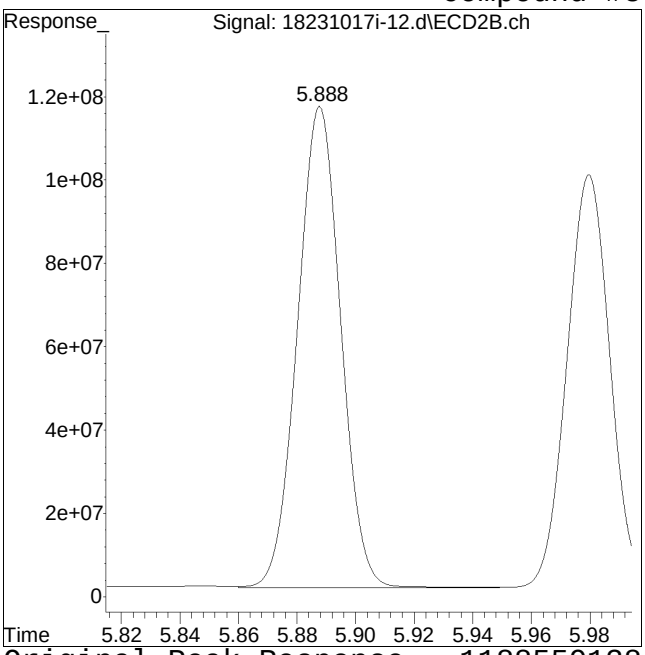


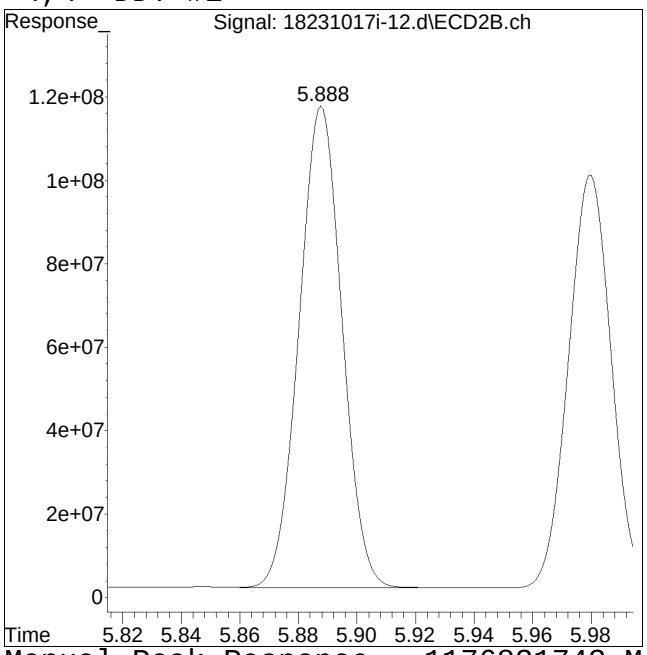
Original Peak Response = 1370566965 Manual Peak Response = 1333093132 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #59: 4,4'-DDT #2



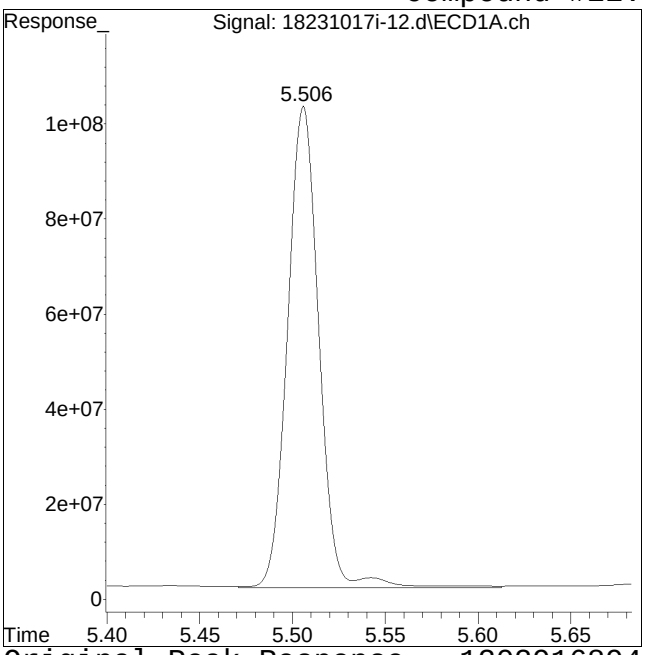


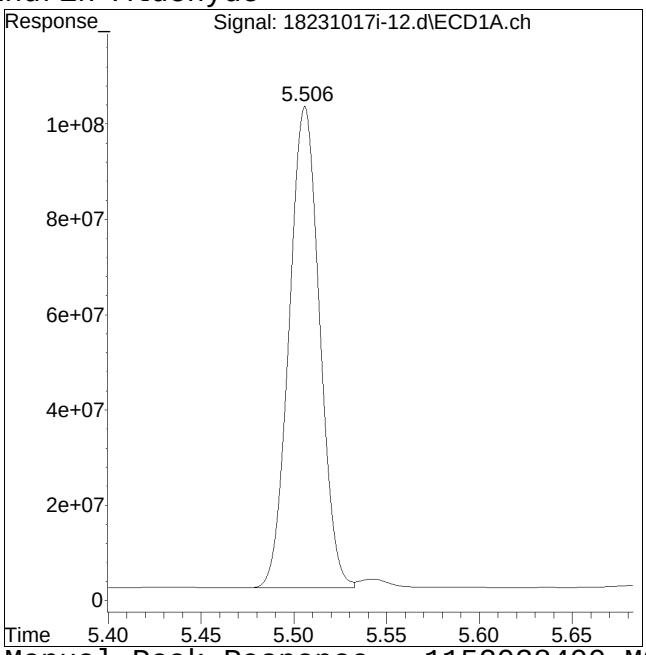
Original Peak Response = 1188559138 Manual Peak Response = 1176831743 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #22: Endrin Aldehyde



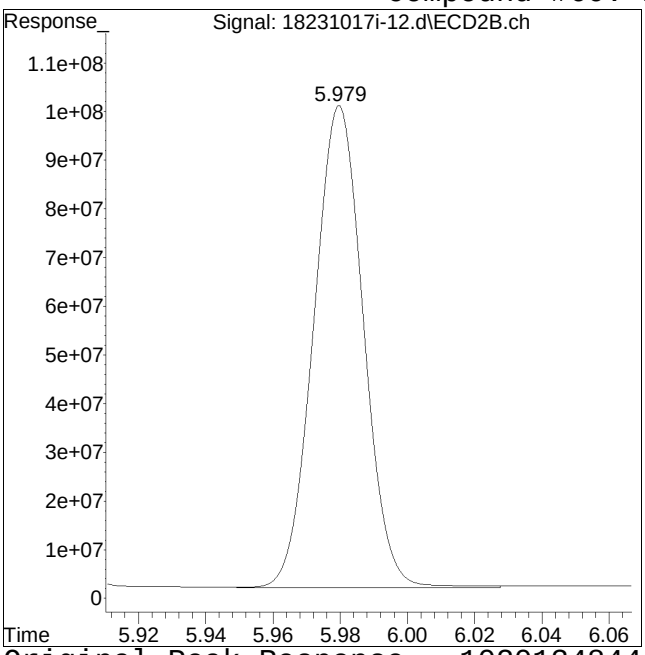


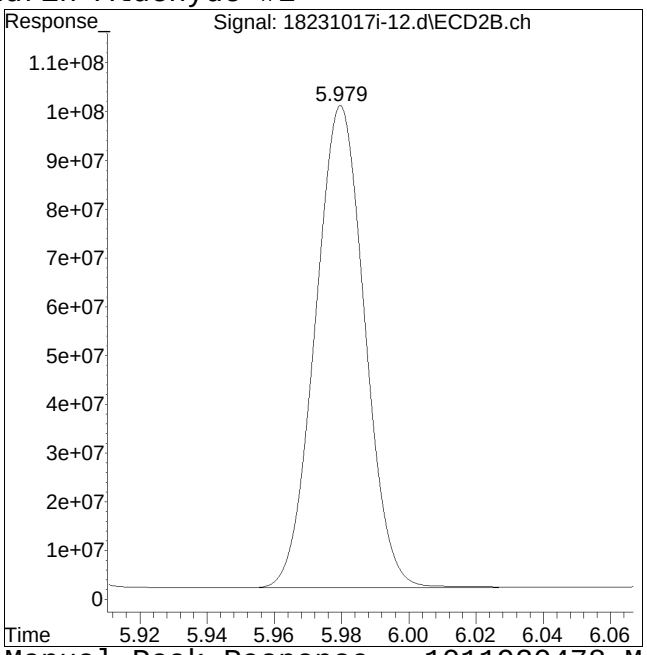
Original Peak Response = 1202916894 Manual Peak Response = 1152038400 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #60: Endrin Aldehyde #2



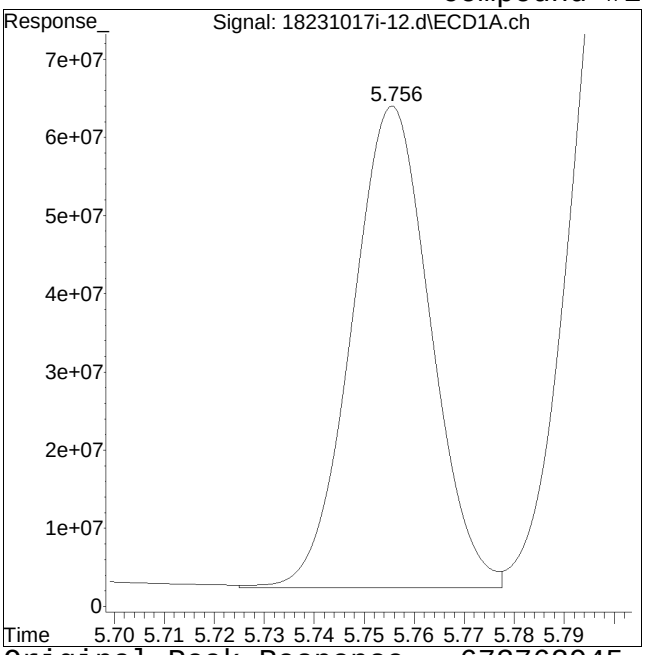


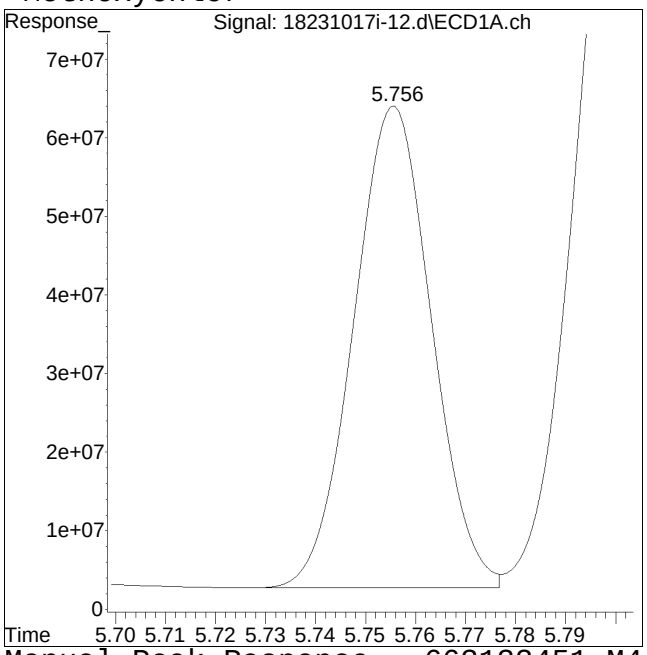
Original Peak Response = 1020134844 Manual Peak Response = 1011920478 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #23: Methoxychlor



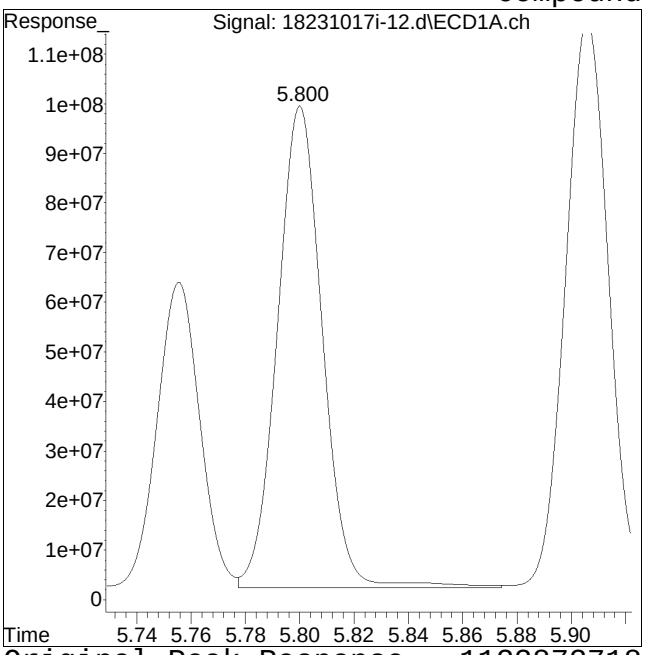


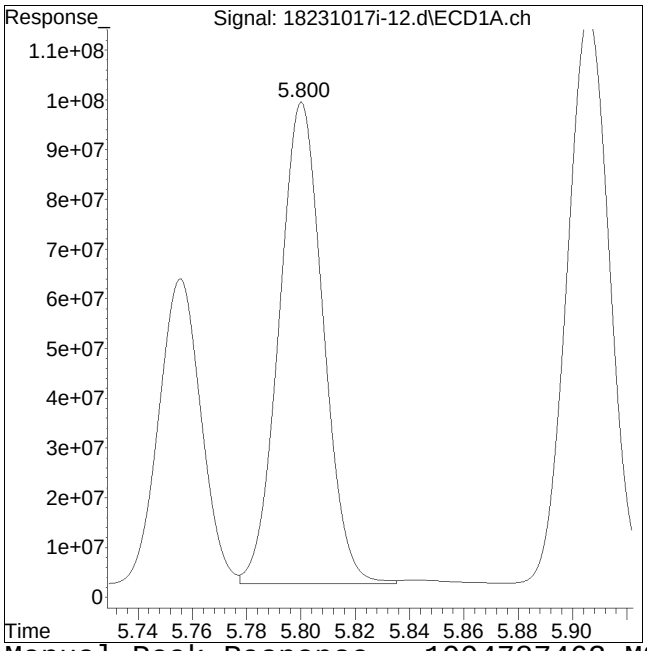
Original Peak Response = 673762945 Manual Peak Response = 663133451 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #24: Mirex



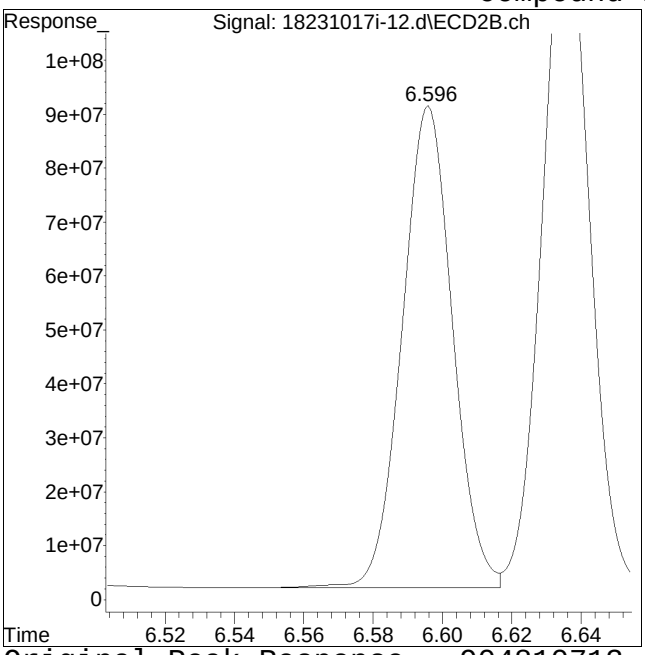


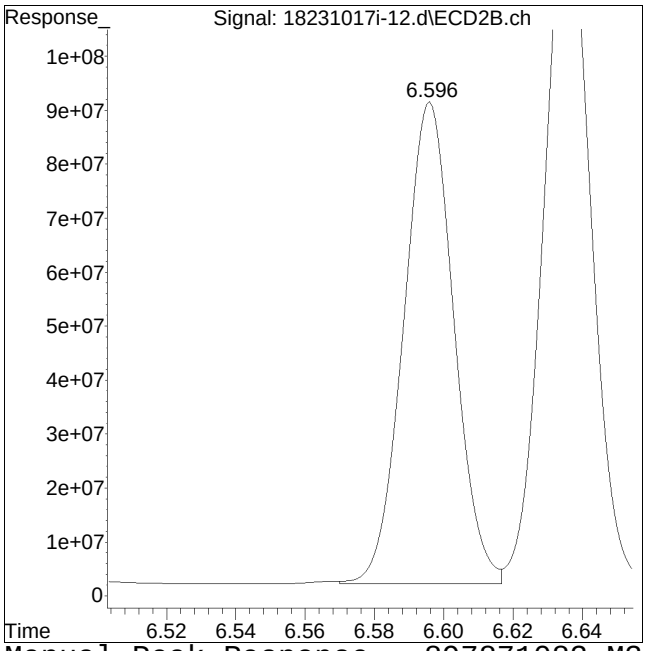
Original Peak Response = 1123873718 Manual Peak Response = 1094787463 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #62: Mirex #2



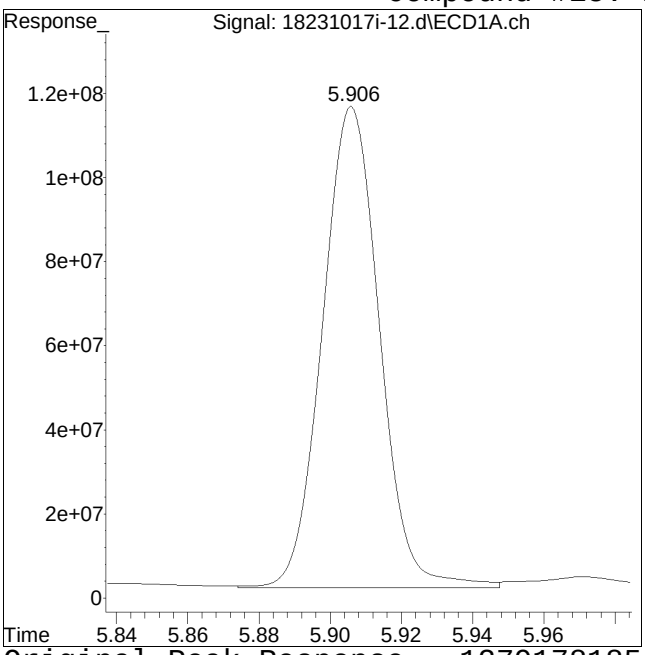


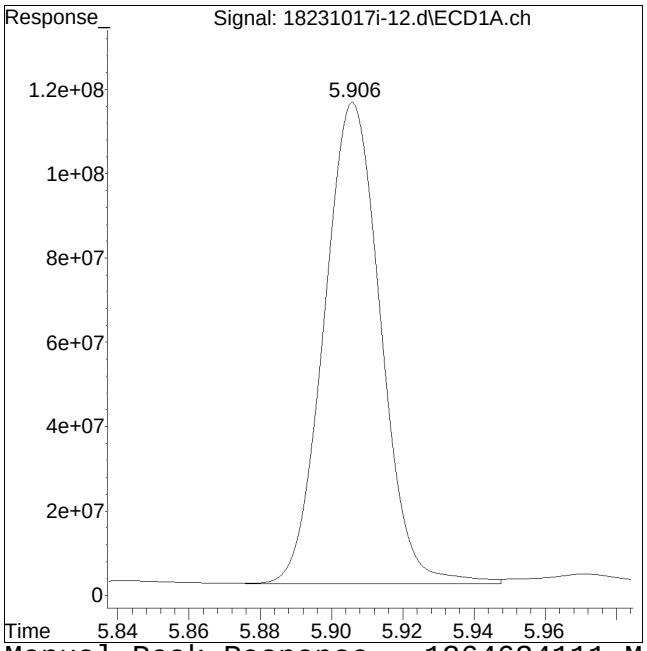
Original Peak Response = 904810713 Manual Peak Response = 897871083 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #25: Endosulfan Sulfate



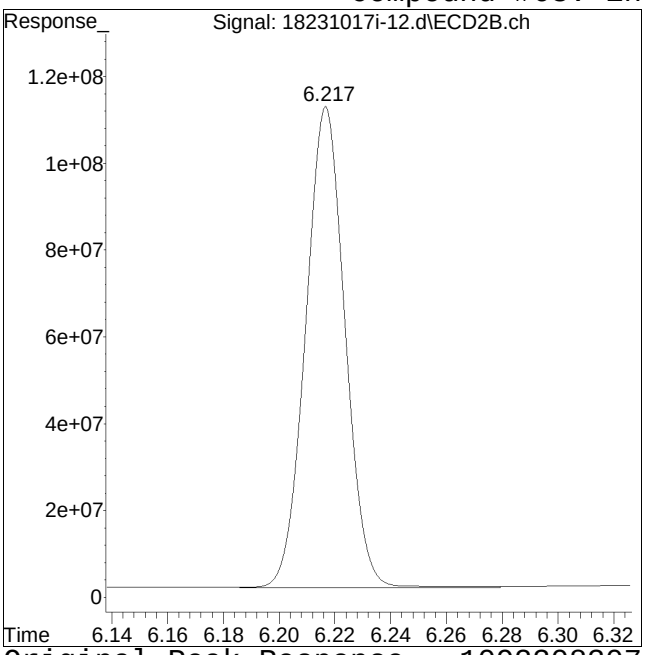


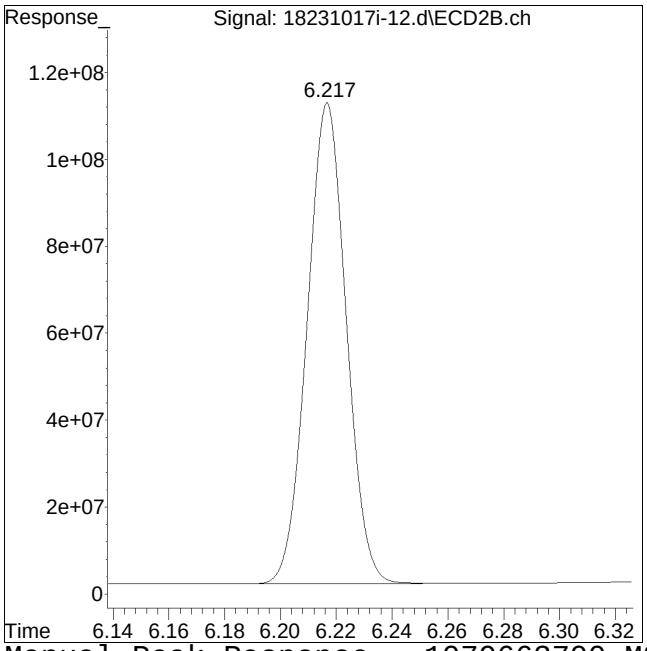
Original Peak Response = 1279178185 Manual Peak Response = 1264634111 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #63: Endosulfan Sulfate #2



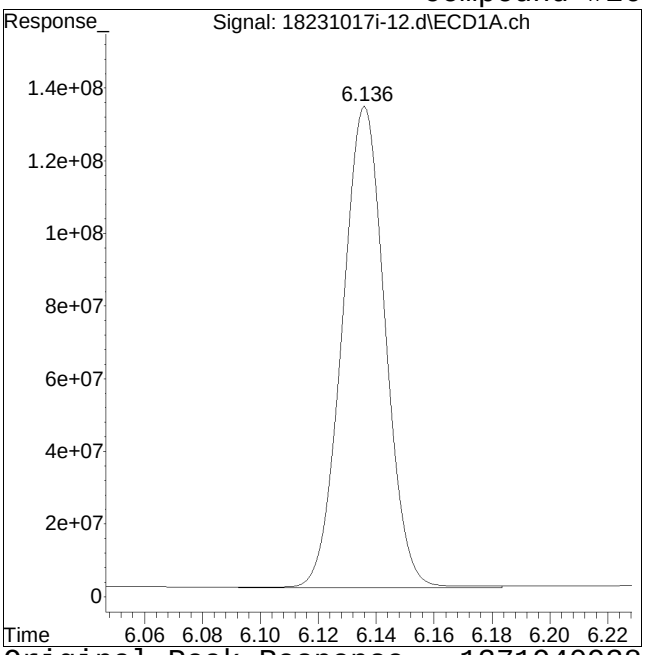


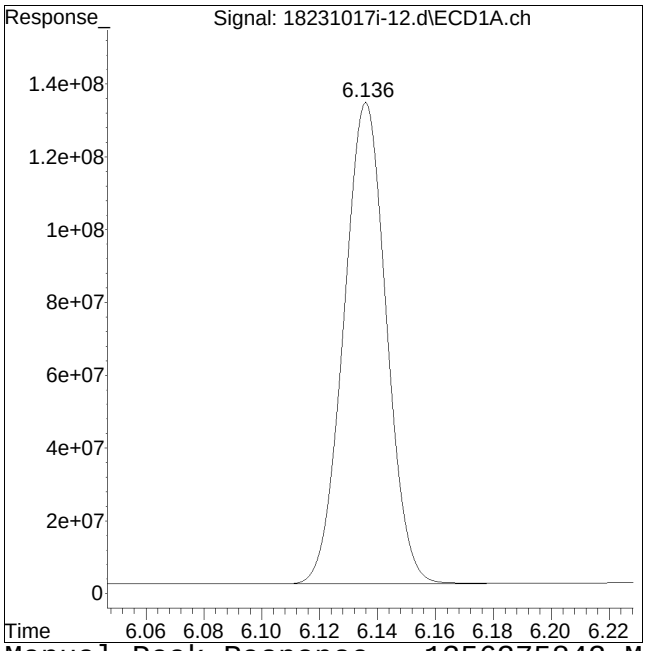
Original Peak Response = 1092308307 Manual Peak Response = 1079663700 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #26: Endrin Ketone



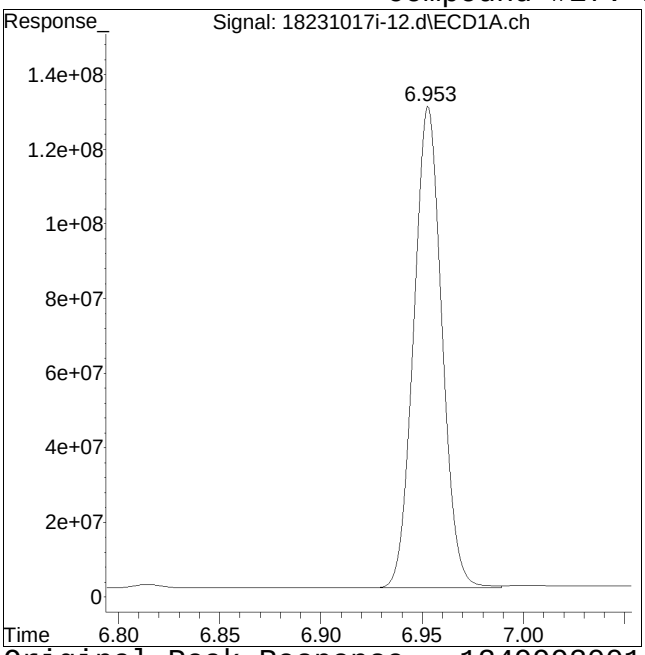


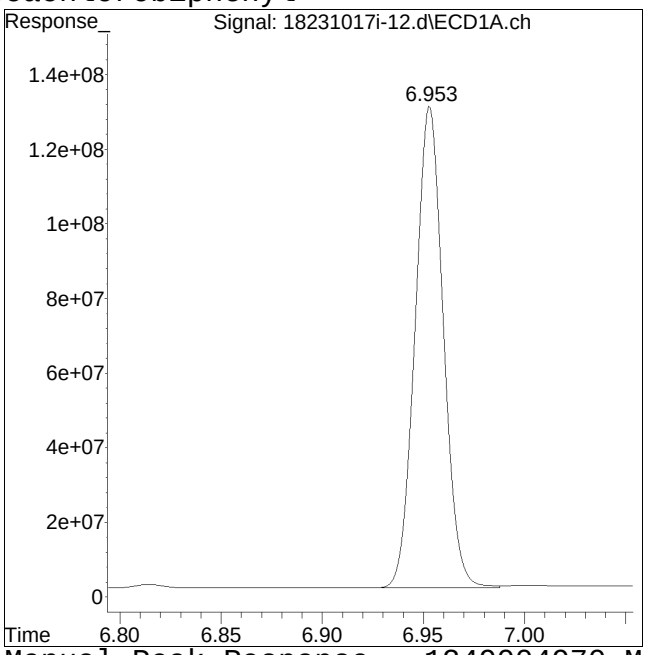
Original Peak Response = 1371940938 Manual Peak Response = 1356375843 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-12.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 1:57 pm Instrument : Pest 18
Sample : il11pest,42e,,pp 11221 L0.Quant Date : 10/19/2023 9:05 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 1249993001 Manual Peak Response = 1249004970 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 17 Oct 2023   2:08 pm
Operator : PEST18:ejl
Sample   : cicvpest,42e,,pp 11366 L0.05ICV
Misc   : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:44:40 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:44:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	1.026	1.3	97	0.00
3		Hexachlorobenzene		1.174	1.083	7.8	95	0.00
4		alpha-BHC		1.316	1.324	-0.6	94	0.00
5		gamma-BHC (lindane)		1.215	1.181	2.8	92	0.00
6		beta-BHC	*	50.000	46.852	6.3	87	0.00
7		delta-BHC		1.244	1.258	-1.1	96	0.00
8		Heptachlor		1.195	1.107	7.4	94	0.00
9		Aldrin		1.142	1.110	2.8	94	0.00
10		Alachlor		0.203	0.195	3.9	97	0.00
11		Chlorpyrifos		0.610	0.552	9.5	94	0.00
12		Heptachlor Epoxide		1.116	1.049	6.0	93	0.00
13		gamma-Chlordane (trans)		1.128	1.059	6.1	103	0.00
14		alpha-Chlordane (cis)		1.194	1.073	10.1	93	0.00
15		4,4'-DDE		1.124	1.080	3.9	93	0.00
16		Endosulfan I		1.059	0.995	6.0	94	0.00
17		Dieldrin	*	50.000	51.344	-2.7	100	0.00
18		Endrin		1.154	1.084	6.1	93	0.00
19		4,4'-DDD		0.903	0.912	-1.0	98	0.00
20		Endosulfan II		1.017	0.962	5.4	95	0.00
21		4,4'-DDT	*	50.000	42.573	14.9	92	0.00
22		Endrin Aldehyde	*	50.000	42.513	15.0	82	0.00
23		Methoxychlor		0.412	0.422	-2.4	94	0.00
24		Mirex		0.948	0.831	12.3	94	0.00
25		Endosulfan Sulfate		0.950	0.894	5.9	93	0.00
26		Endrin Ketone		0.935	0.956	-2.2	98	0.00
27	s	Decachlorobiphenyl	*	50.000	51.518	-3.0	101	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 17 Oct 2023   2:08 pm
Operator : PEST18:ejl
Sample   : cicvpest,42e,,pp 11366 L0.05ICV
Misc   : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:44:40 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:44:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.057	1.045	1.1	97	0.00
3		Hexachlorobenzene		1.244	1.144	8.0	97	0.00
4		alpha-BHC		1.350	1.346	0.3	94	0.00
5		gamma-BHC (lindane)		1.263	1.201	4.9	92	0.00
6		beta-BHC	*	50.000	46.311	7.4	88	0.00
7		delta-BHC		1.271	1.275	-0.3	96	0.00
8		Heptachlor		1.245	1.161	6.7	94	0.00
9		Aldrin		1.183	1.143	3.4	94	0.00
10		Alachlor		0.184	0.181	1.6	99	0.00
11		Chlorpyrifos		0.647	0.584	9.7	95	0.00
12		Heptachlor Epoxide		1.169	1.074	8.1	93	0.00
13		gamma-Chlordane (trans)		1.066	1.091	-2.3	105	0.00
14		alpha-Chlordane (cis)		1.208	1.096	9.3	94	0.00
15		4,4'-DDE		1.171	1.109	5.3	93	0.00
16		Endosulfan I		1.099	1.025	6.7	93	0.00
17		Dieldrin		1.119	1.124	-0.4	100	0.00
18		Endrin		1.129	1.033	8.5	90	0.00
19		4,4'-DDD		0.941	0.949	-0.9	101	0.00
20		Endosulfan II		1.038	0.966	6.9	95	0.00
21		4,4'-DDT		0.822	0.803	2.3	93	0.00
22		Endrin Aldehyde	*	50.000	41.600	16.8#	82	0.00
23		Methoxychlor		0.462	0.459	0.6	96	0.00
24		Mirex	*	50.000	50.584	-1.2	93	0.00
25		Endosulfan Sulfate		0.991	0.873	11.9	94	0.00
26		Endrin Ketone		0.975	0.959	1.6	97	0.00
27	s	Decachlorobiphenyl		0.992	0.894	9.9	102	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 17 Oct 2023   2:08 pm
Operator : PEST18:ejl
Sample   : cicvpest,42e,,pp 11366 L0.05ICV
Misc   : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 13   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:44:40 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:44:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.73#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.10#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.47#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.04#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.17#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.73#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.07#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.20#
36	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-5.43#
37	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.81#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.77#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.32#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.93#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.60#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.78#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.77#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.66#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.75#
36	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-5.99#
37	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-6.41#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:08 pm
Operator : PEST18:ejl
Sample : cicvpest,42e,,pp 11366 L0.05ICV
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:44:40 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:44:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.722	1.770	82958895	72758134	25.000M3	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.155	2.319	170.2E6	152.1E6	49.337M3	49.447
	Spiked Amount 50.000	Range 30 - 150		Recovery =		98.67%	98.89%
27) s	Decachlorobi	6.953	7.525	167.1E6	130.1E6	51.518M3	45.070
	Spiked Amount 50.000	Range 30 - 150		Recovery =		103.04%	90.14%
	Target Compounds						
3)	Hexachlorobe	2.397	2.657	179.6E6	166.5E6	46.094M3	45.987
4)	alpha-BHC	2.510	2.762	219.7E6	195.8E6	50.337M4	49.850
5)	gamma-BHC (l	2.730	3.053	195.9E6	174.8E6	48.588M3	47.542
6)	beta-BHC	2.798	3.128	85857558	77042342	46.852M4	46.311
7)	delta-BHC	2.935	3.396	208.7E6	185.6E6	50.562	50.171
8)	Heptachlor	3.096	3.448	183.6E6	169.0E6	46.306M3	46.627
9)	Aldrin	3.346	3.764	184.1E6	166.3E6	48.588M4	48.321
10)	Alachlor	3.485	3.665	32382730	26268593	47.990M4	49.115
11)	Chlorpyrifos	3.581	4.017	91600335	84943247	45.220	45.098
12)	Heptachlor E	3.907	4.379	174.1E6	156.3E6	47.020M3	45.957
13)	gamma-Chlord	4.035	4.599	175.7E6	158.7E6	46.936M3	51.155
14)	alpha-Chlord	4.171	4.772	178.1E6	159.5E6	44.963	45.367
15)	4,4'-DDE	4.278	4.993	179.2E6	161.4E6	48.026	47.355
16)	Endosulfan I	4.306	4.834	165.1E6	149.1E6	46.981M3	46.625
17)	Dieldrin	4.569	5.147	185.3E6	163.6E6	51.344M4	50.248
18)	Endrin	4.826	5.459	179.9E6	150.3E6	46.975M4	45.765
19)	4,4'-DDD	4.952	5.601	151.3E6	138.0E6	50.497M3	50.415
20)	Endosulfan I	5.078	5.670	159.7E6	140.6E6	47.298M4	46.505
21)	4,4'-DDT	5.252	5.888	125.1E6	116.8E6	42.573M3	48.859
22)	Endrin Aldeh	5.507	5.980	116.8E6	101.9E6	42.513	41.600

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:08 pm
Operator : PEST18:ejl
Sample : cicvpest,42e,,pp 11366 L0.05ICV
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:44:40 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:44:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	5.756	6.475	70005607	66806999	51.184M4	49.668
24)	Mirex	5.801	6.596	137.9E6	112.9E6	43.816M3	50.584
25)	Endosulfan S	5.906	6.217	148.3E6	127.0E6	47.032M4	44.022
26)	Endrin Keton	6.136	6.635	158.6E6	139.5E6	51.114M4	49.155M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

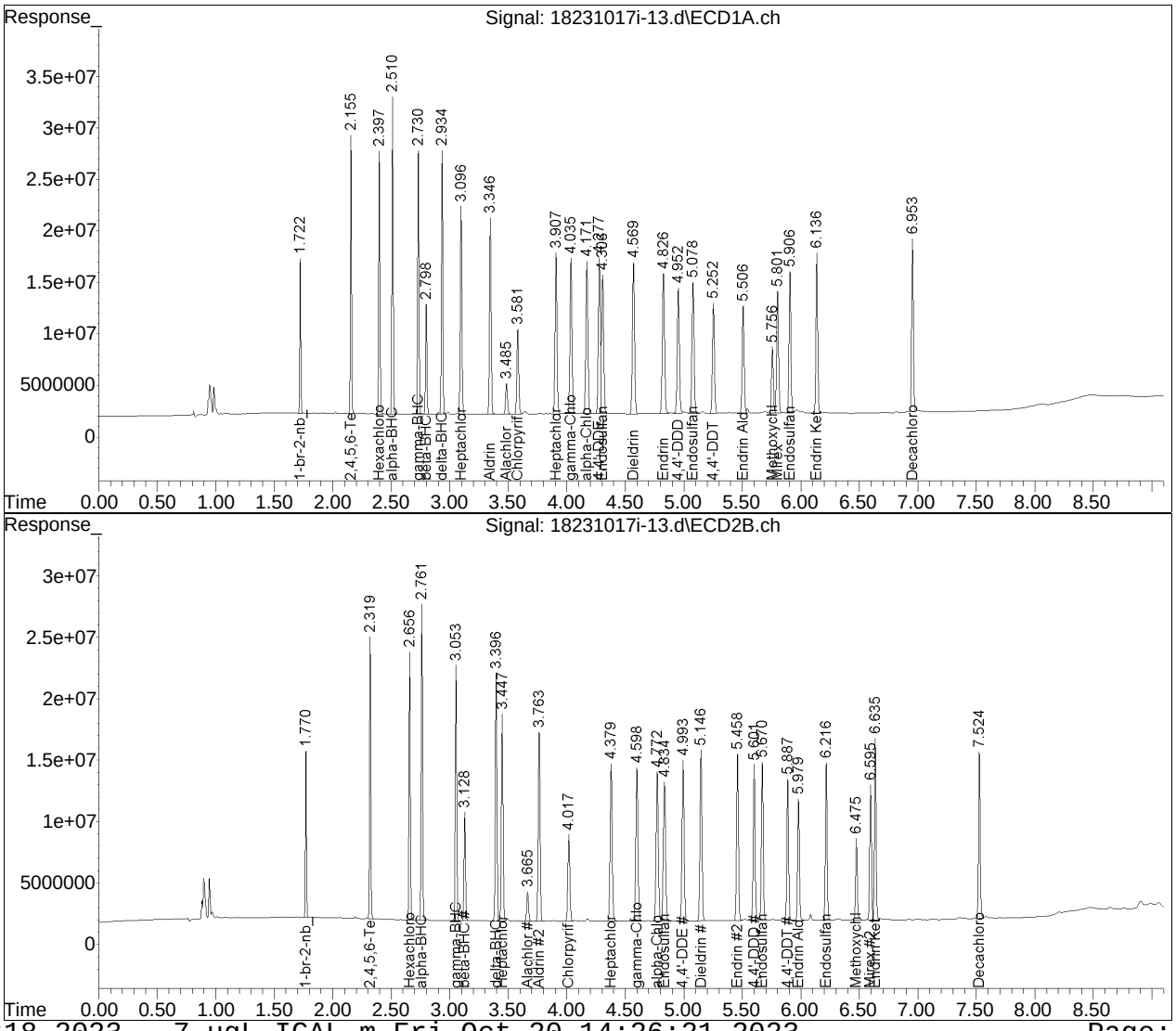
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:08 pm
Operator : PEST18:ejl
Sample : cicvpest,42e,,pp 11366 L0.05ICV
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:44:40 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:44:29 2023
Response via : Initial Calibration
Integrator: ChemStation

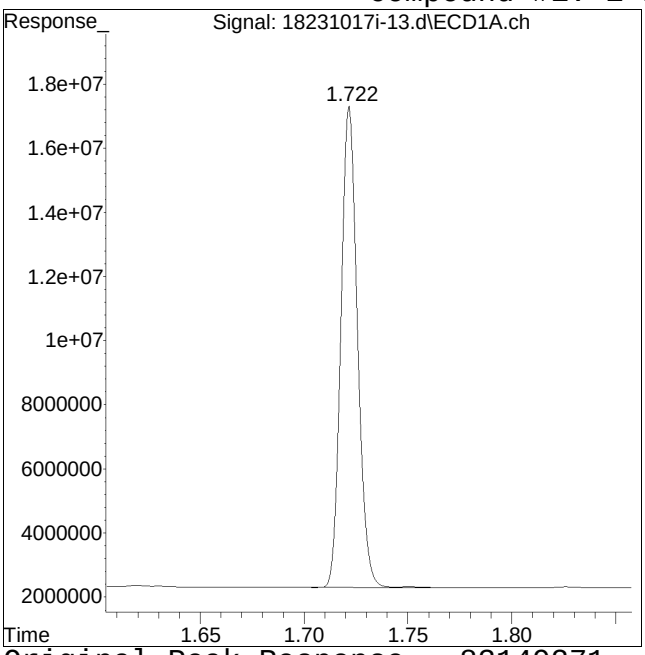
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

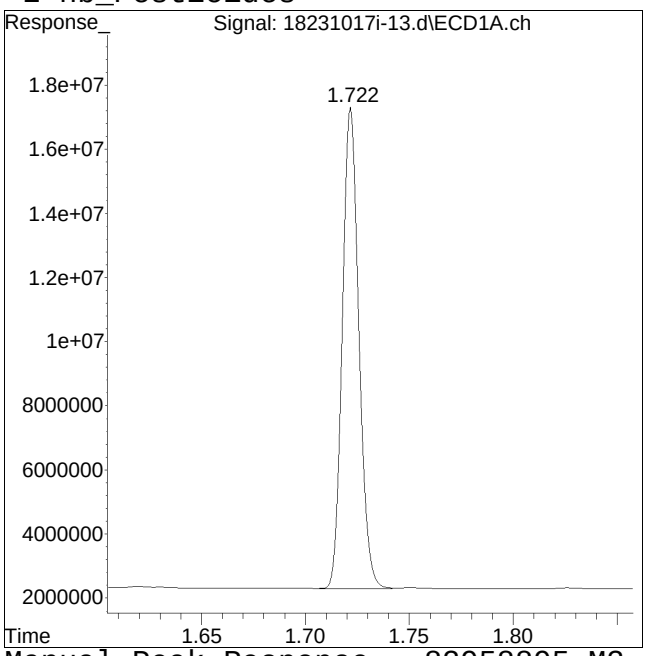


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #1: 1-br-2-nb_Pesticides



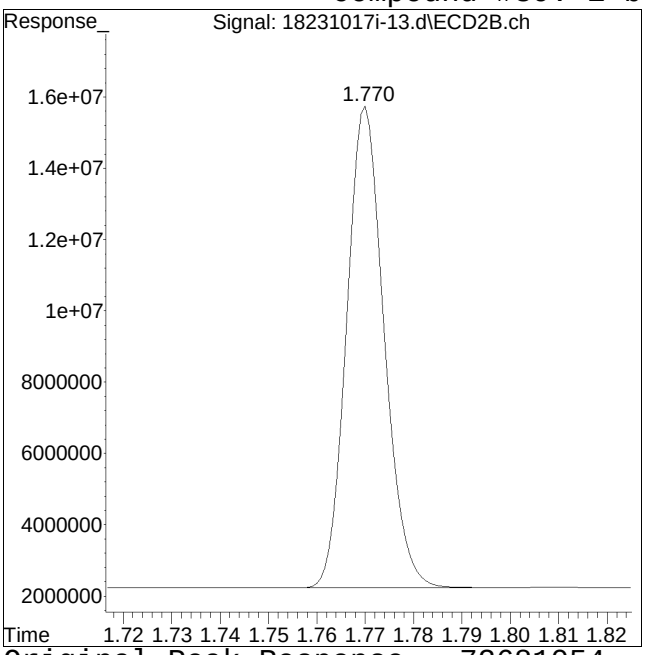


Original Peak Response = 83149271 Manual Peak Response = 82958895 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

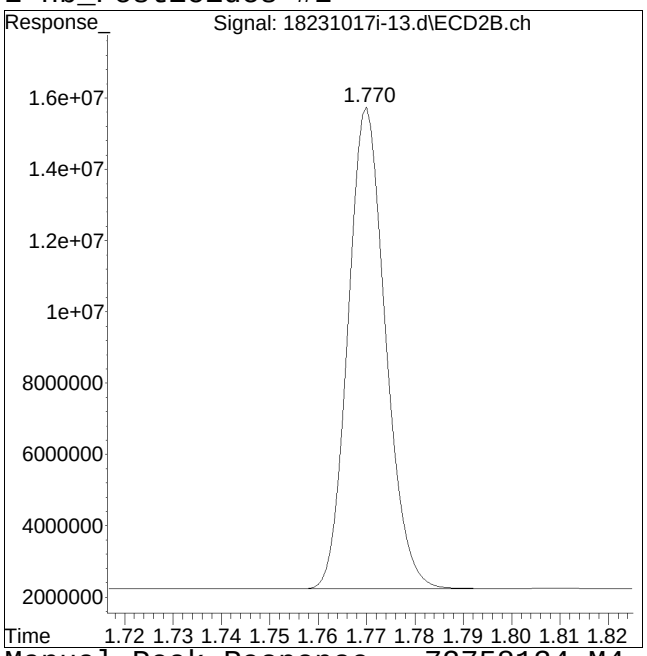
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 72681054



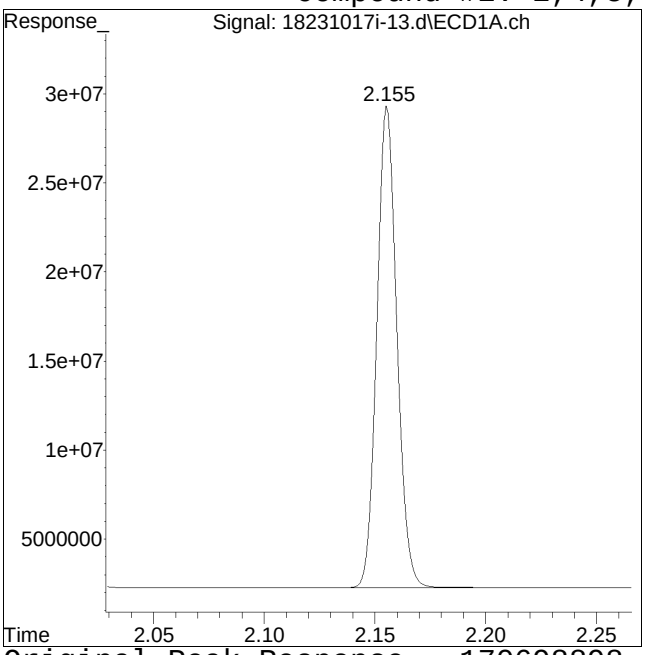
Manual Peak Response = 72758134 M4

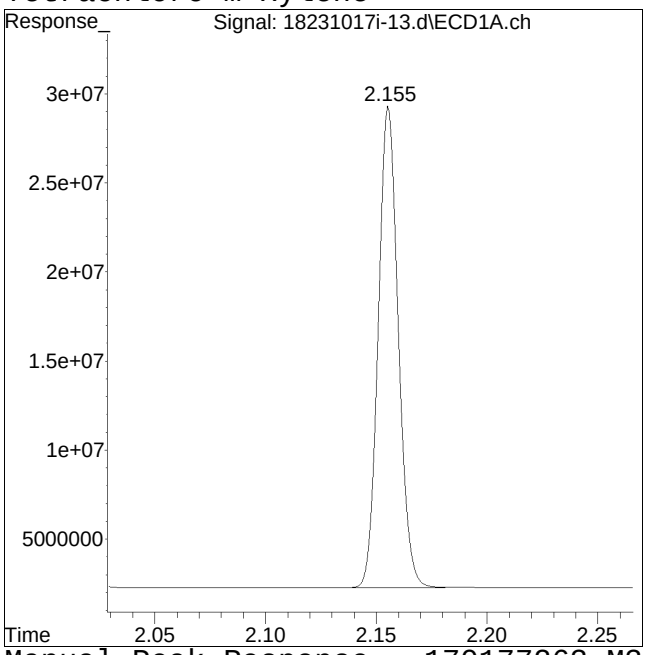
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



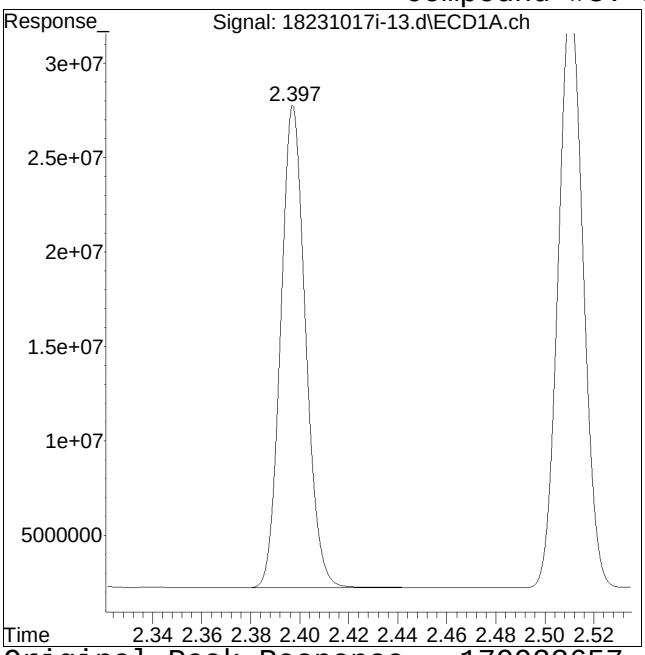


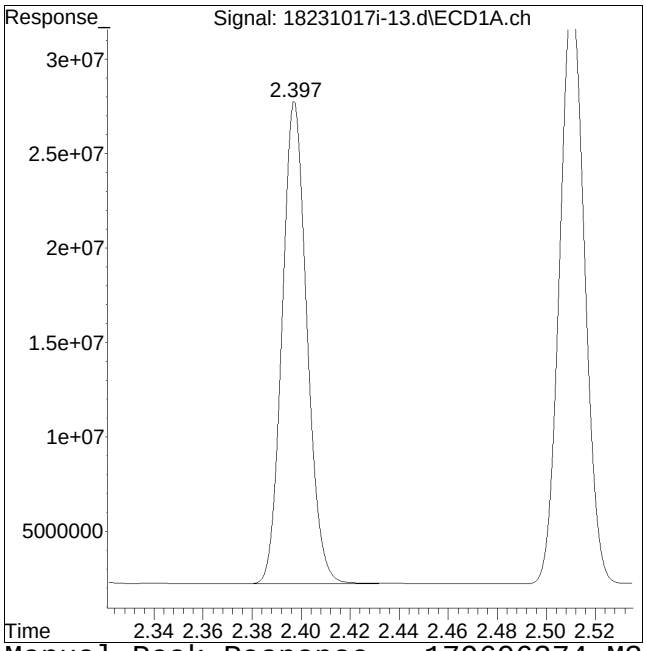
Original Peak Response = 170698898 Manual Peak Response = 170177263 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #3: Hexachlorobenzene



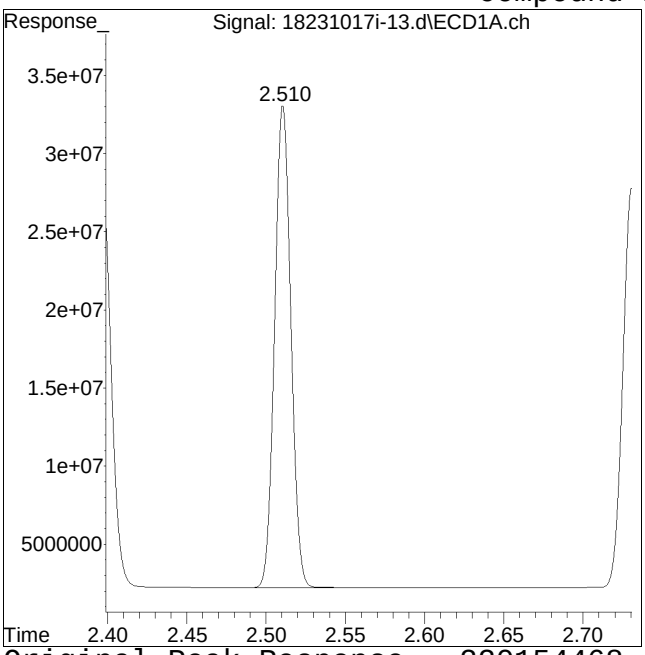


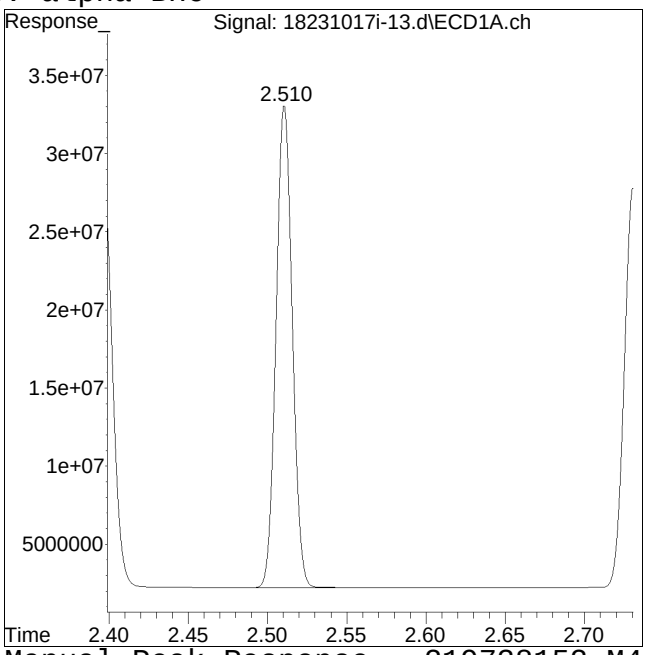
Original Peak Response = 179923657 Manual Peak Response = 179606374 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #4: alpha-BHC



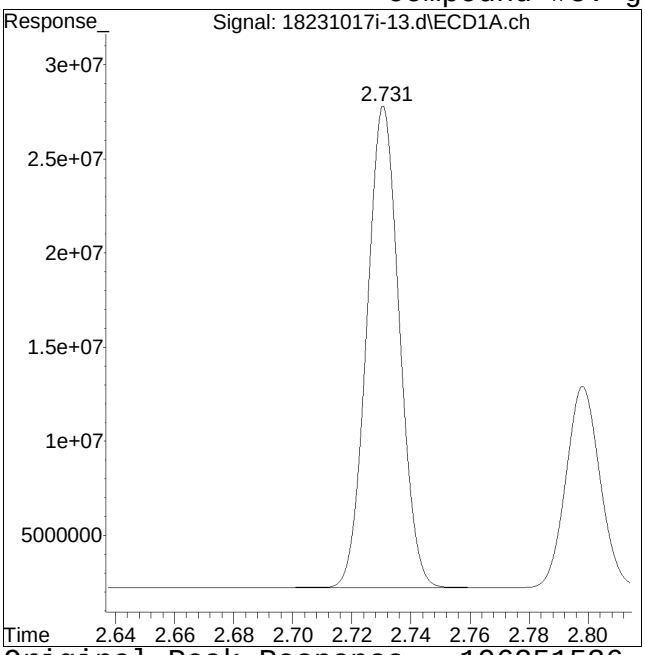


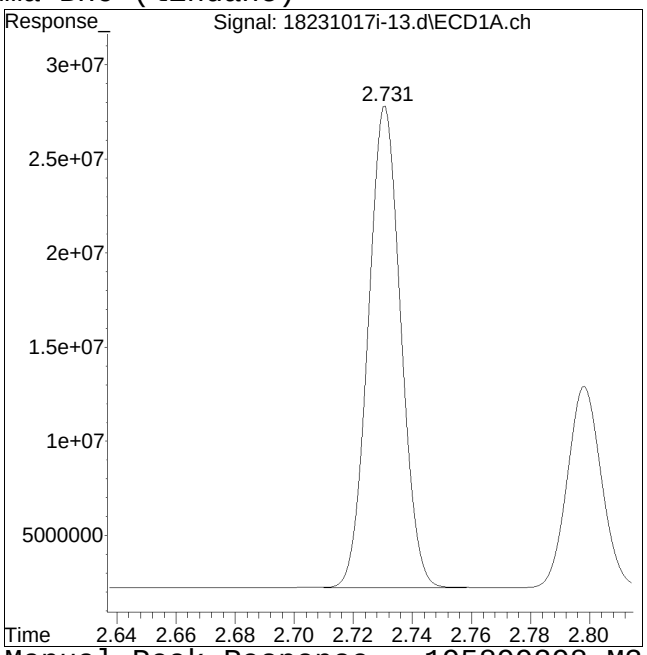
Original Peak Response = 220154468 Manual Peak Response = 219738152 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #5: gamma-BHC (lindane)



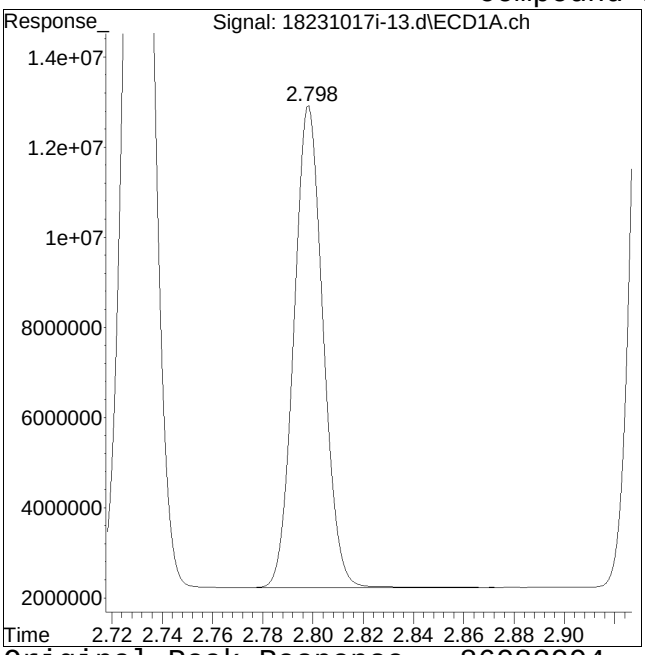


Original Peak Response = 196251536 Manual Peak Response = 195899298 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

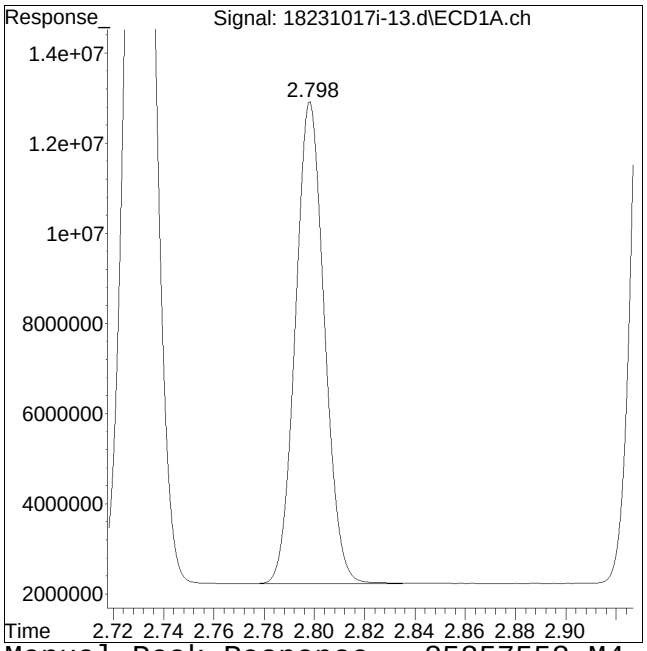
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #6: beta-BHC



Original Peak Response = 86082994



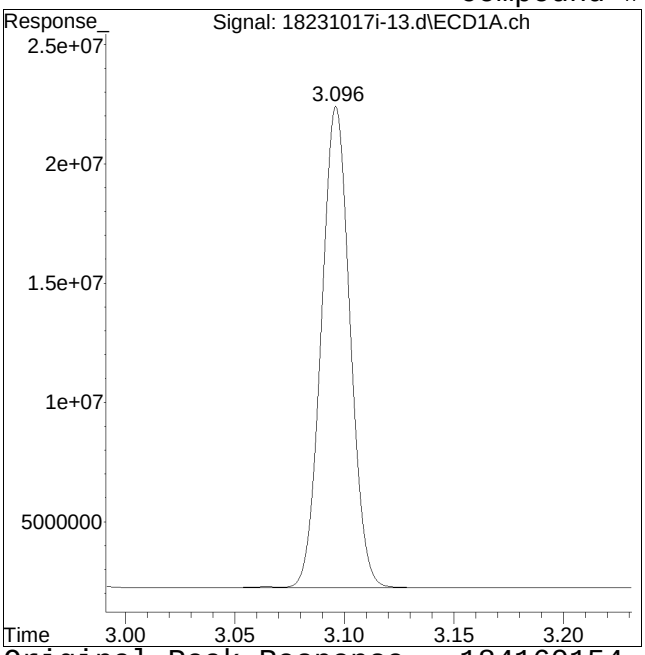
Manual Peak Response = 85857558 M4

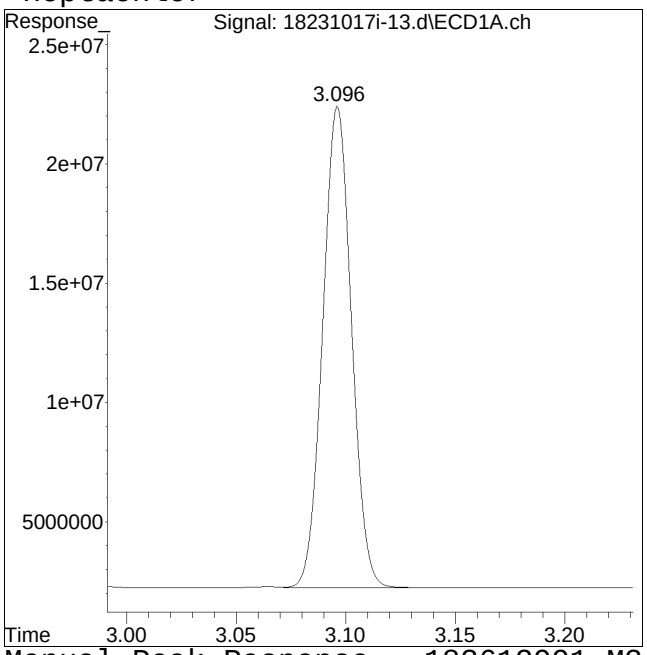
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #8: Heptachlor



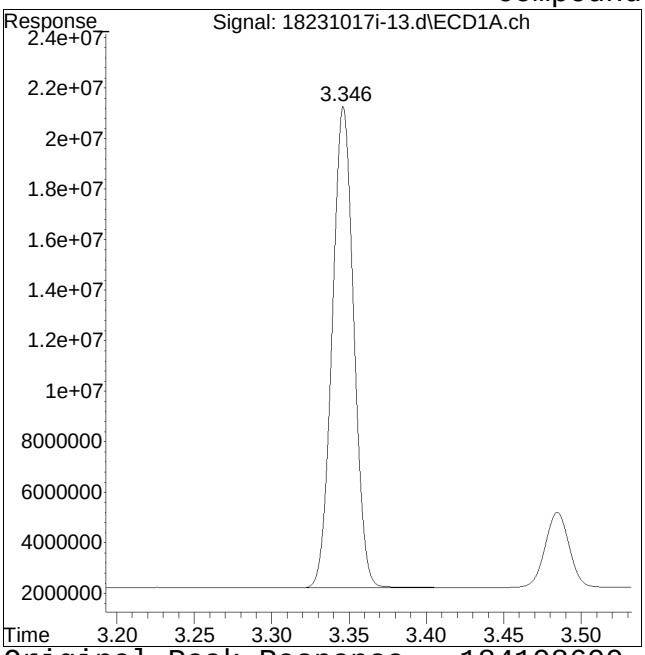


Original Peak Response = 184160154 Manual Peak Response = 183612991 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

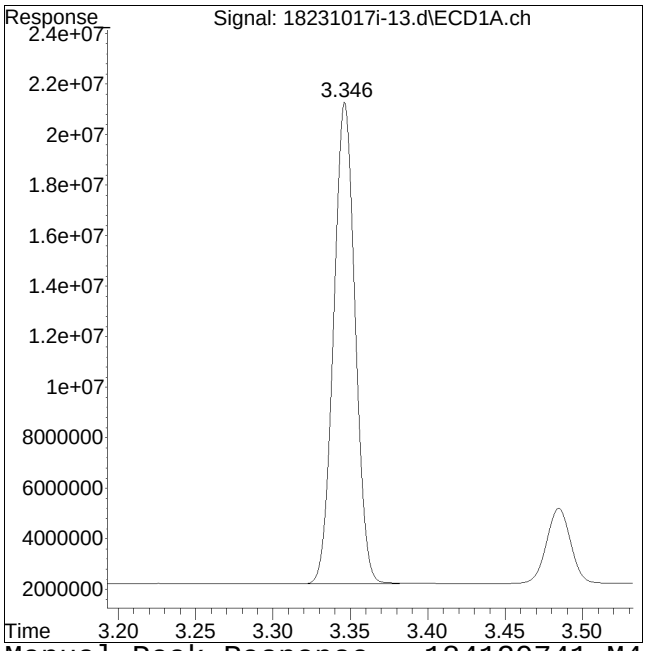
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #9: Aldrin



Original Peak Response = 184108600



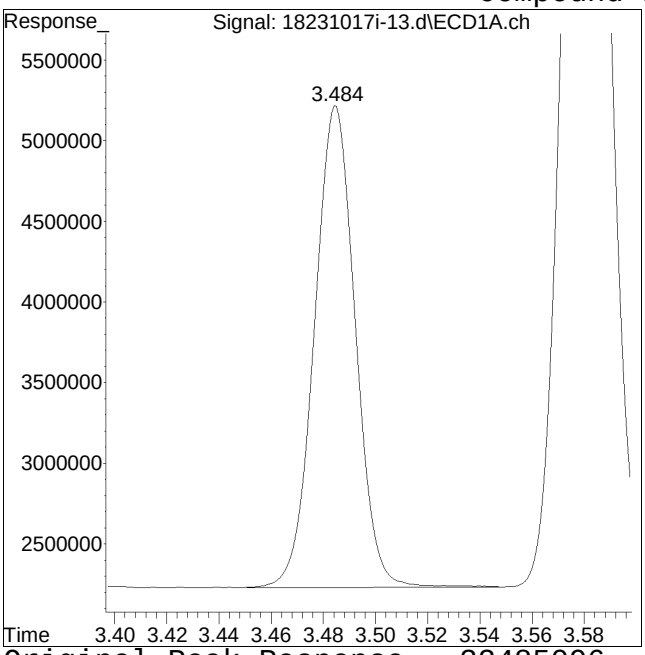
Manual Peak Response = 184120741 M4

M4 = Poor automated baseline construction.

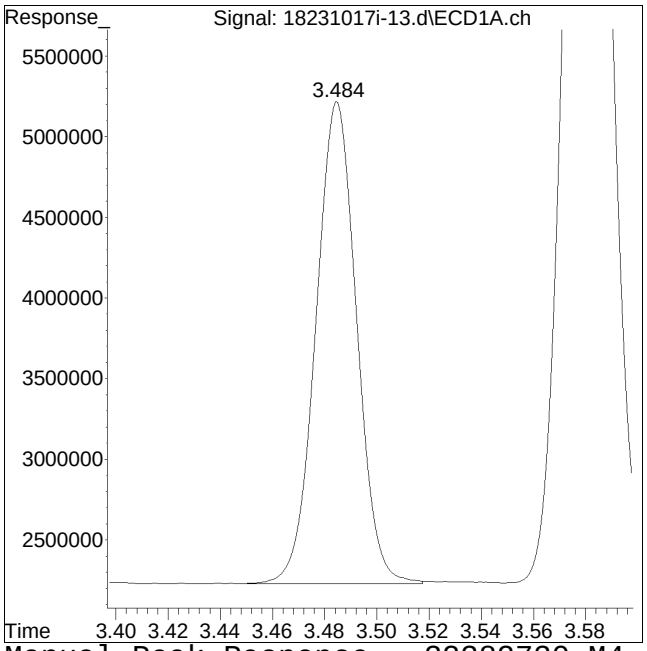
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #10: Alachlor



Original Peak Response = 32485096



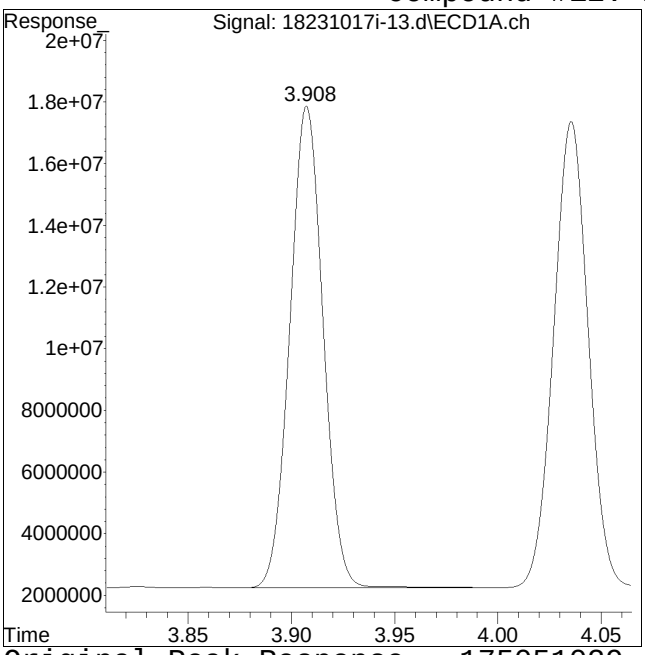
Manual Peak Response = 32382730 M4

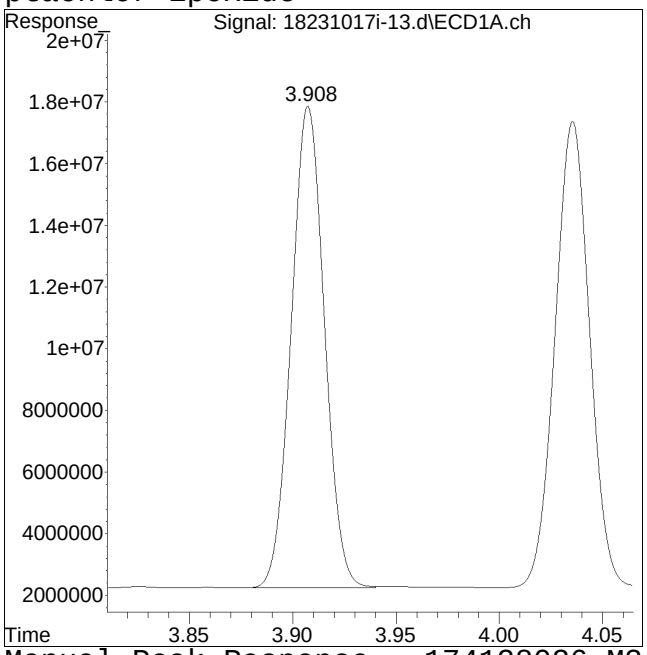
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #12: Heptachlor Epoxide



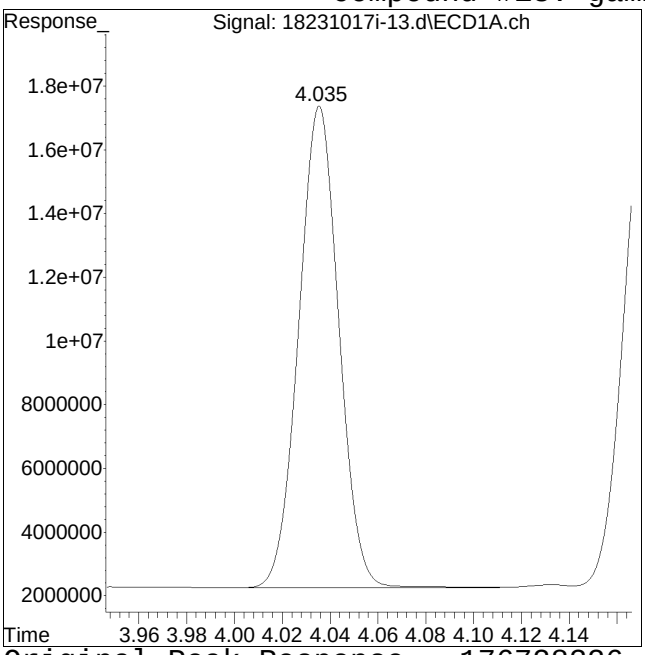


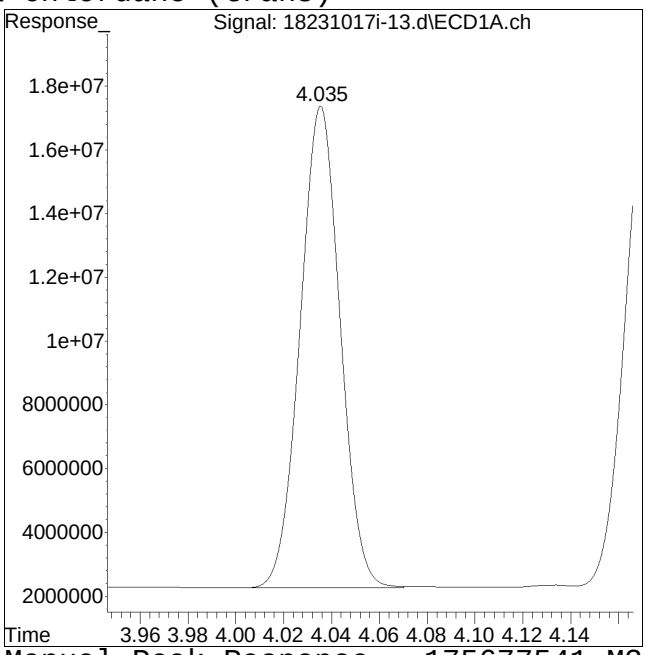
Original Peak Response = 175051029 Manual Peak Response = 174128026 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #13: gamma-Chlordane (trans)



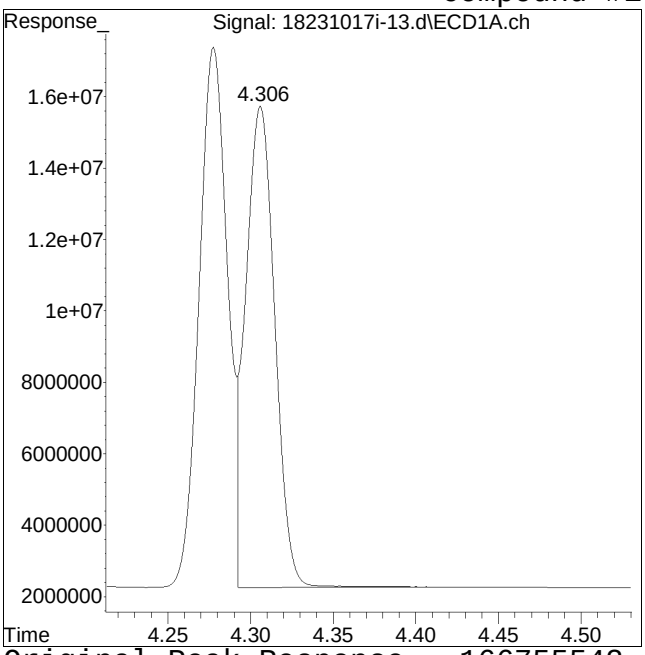


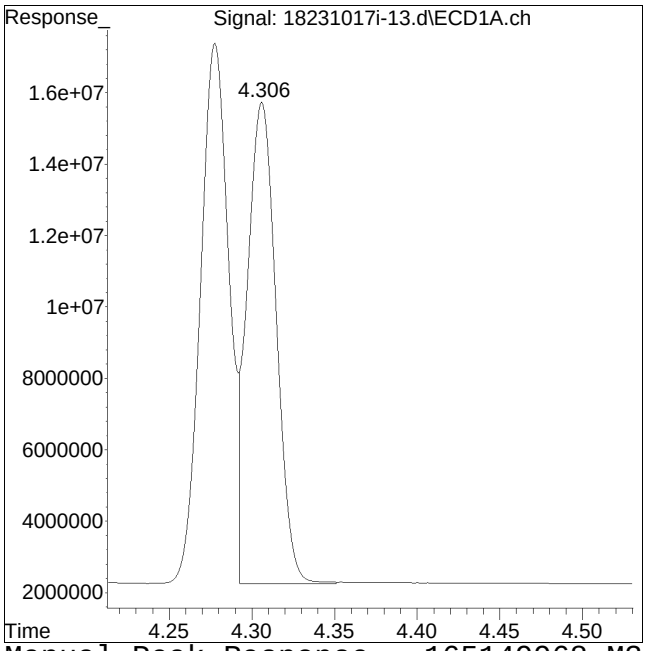
Original Peak Response = 176728326 Manual Peak Response = 175677541 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #16: Endosulfan I



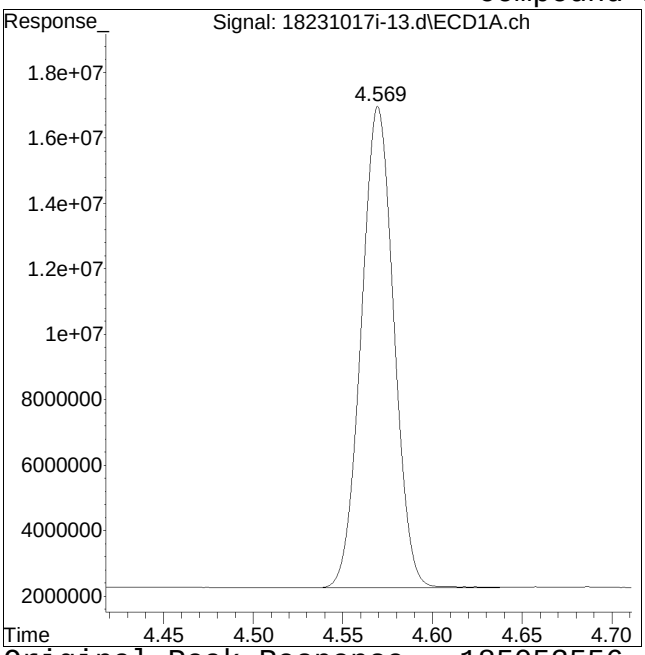


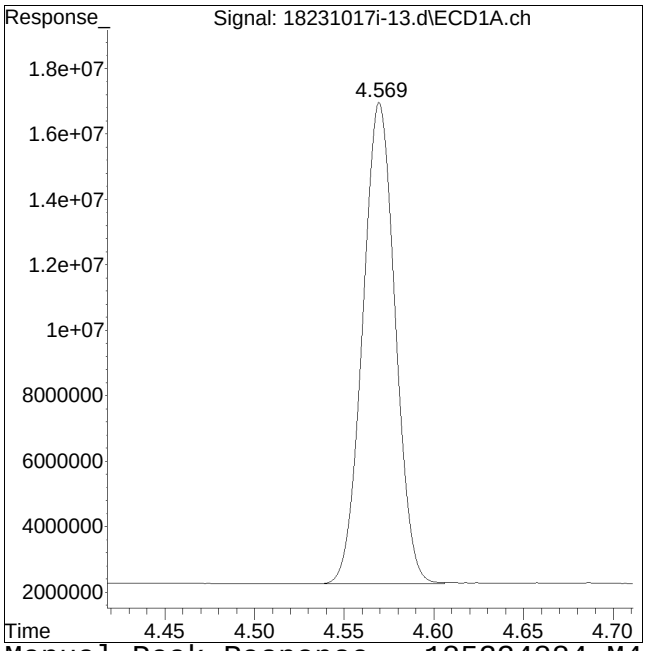
Original Peak Response = 166755542 Manual Peak Response = 165149968 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #17: Dieldrin



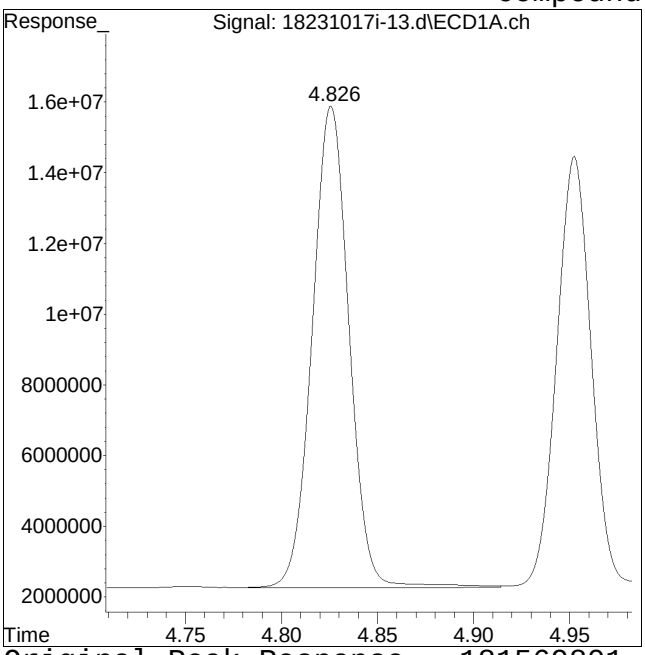


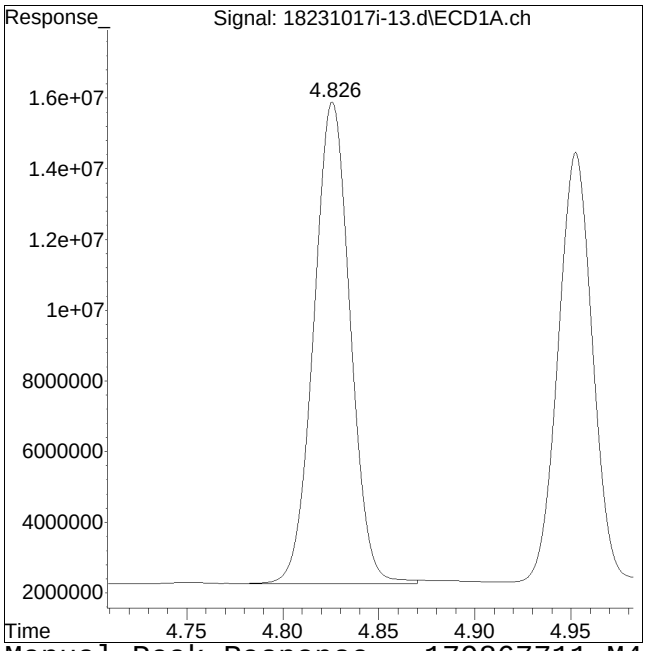
Original Peak Response = 185053556 Manual Peak Response = 185334884 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #18: Endrin



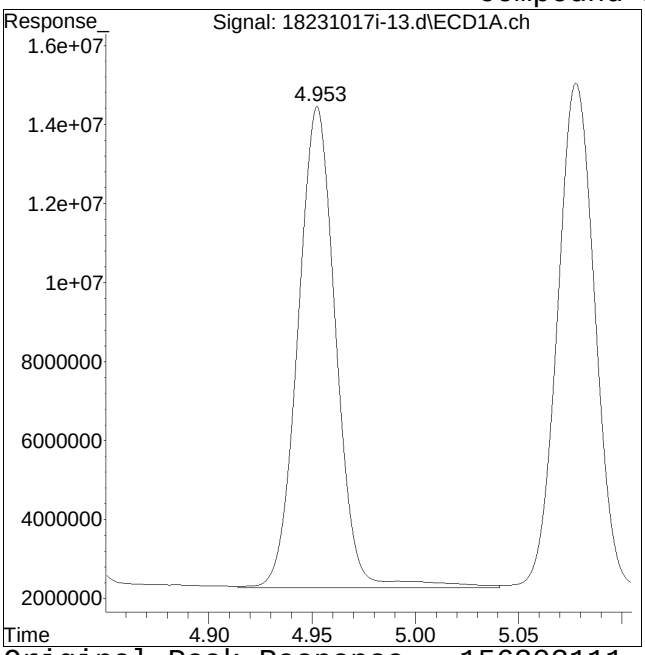


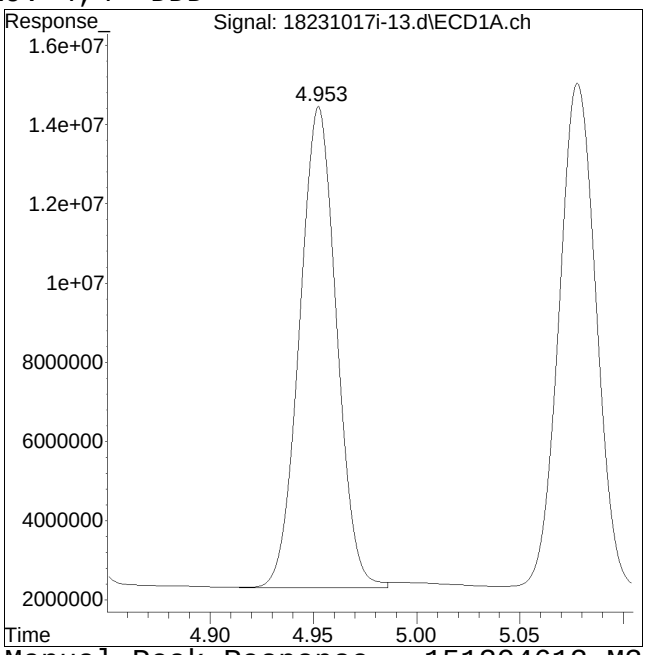
Original Peak Response = 181569801 Manual Peak Response = 179867711 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #19: 4,4'-DDD



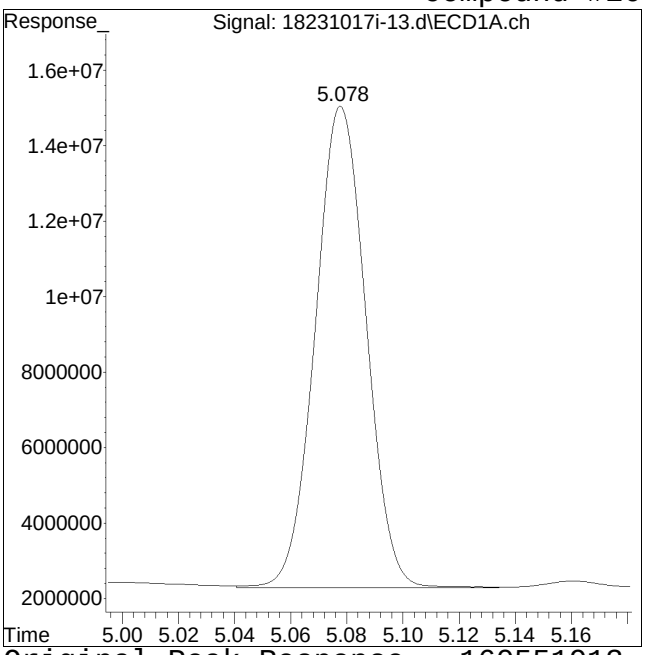


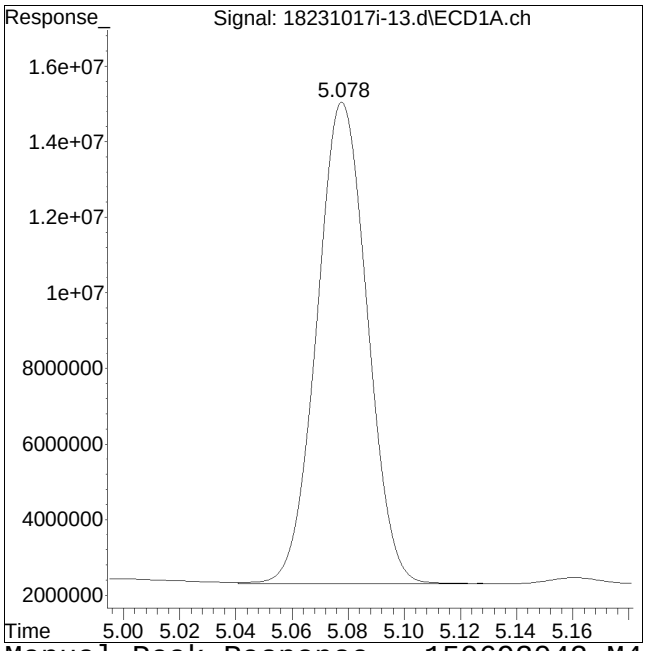
Original Peak Response = 156303111 Manual Peak Response = 151304612 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #20: Endosulfan II



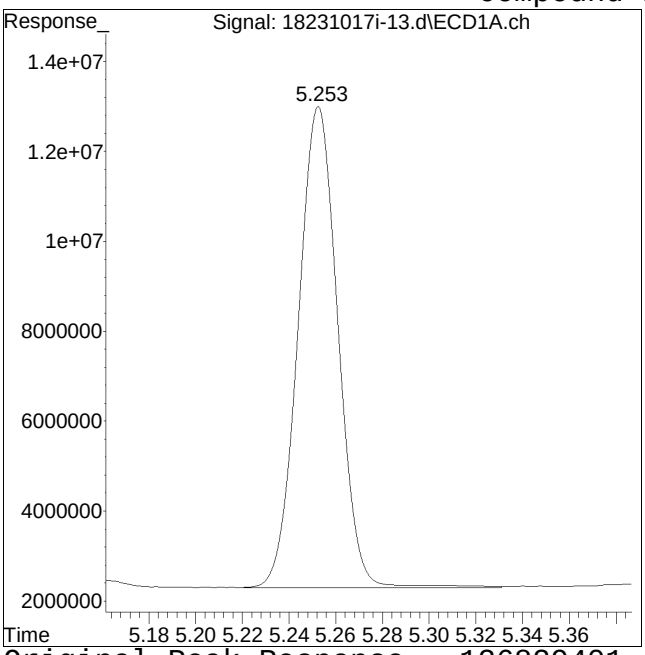


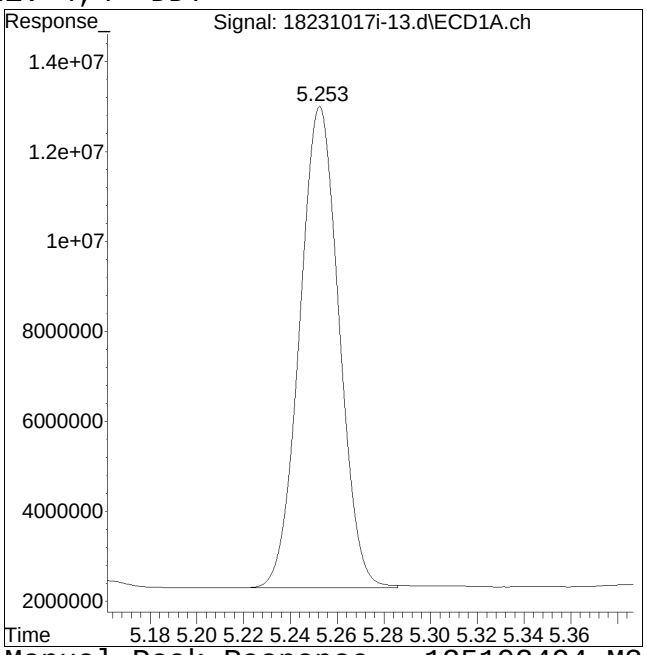
Original Peak Response = 160551913 Manual Peak Response = 159693042 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #21: 4,4'-DDT



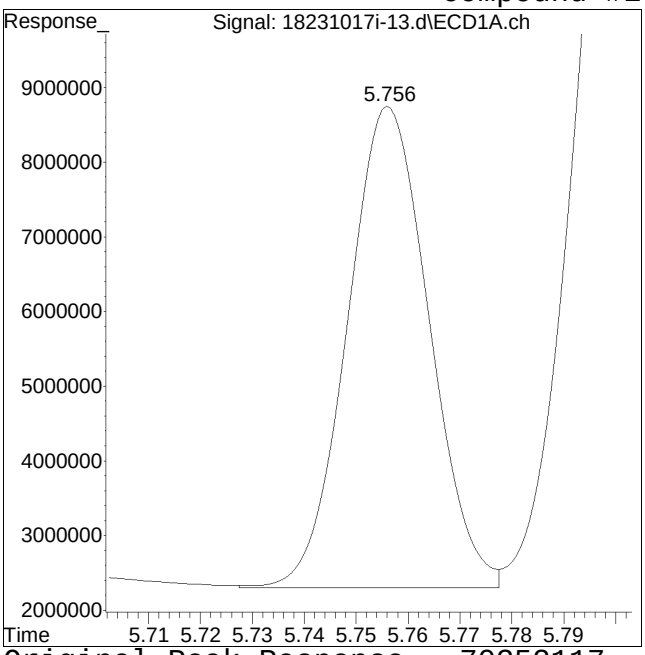


Original Peak Response = 126829401 Manual Peak Response = 125102494 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

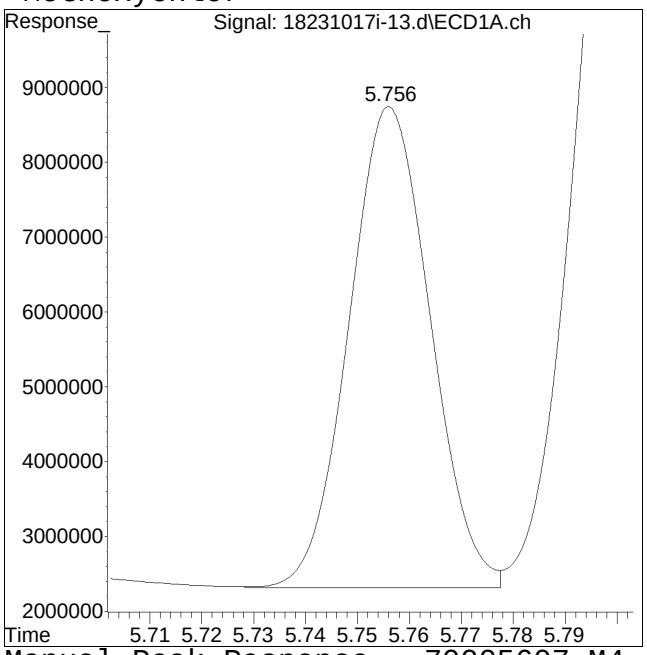
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #23: Methoxychlor



Original Peak Response = 70352117



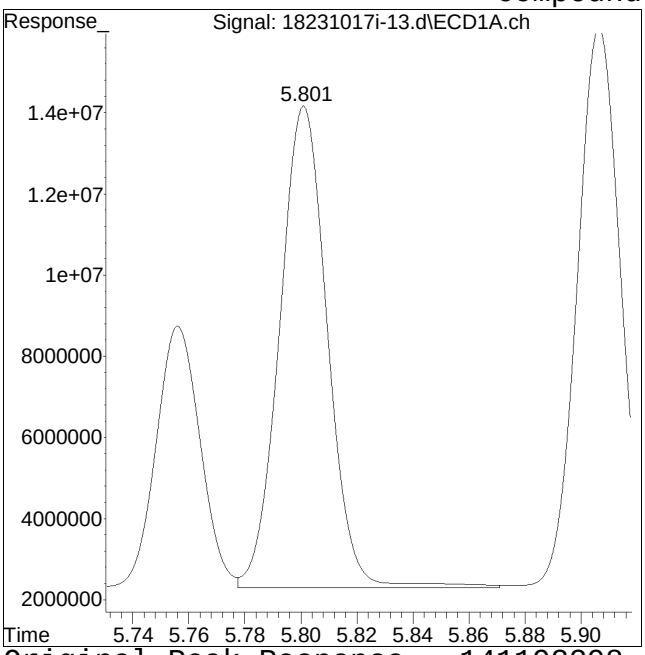
Manual Peak Response = 70005607 M4

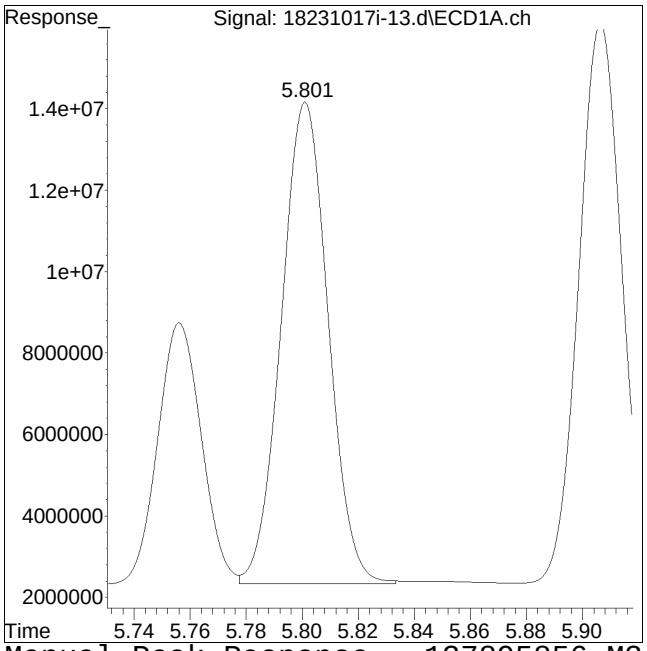
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #24: Mirex



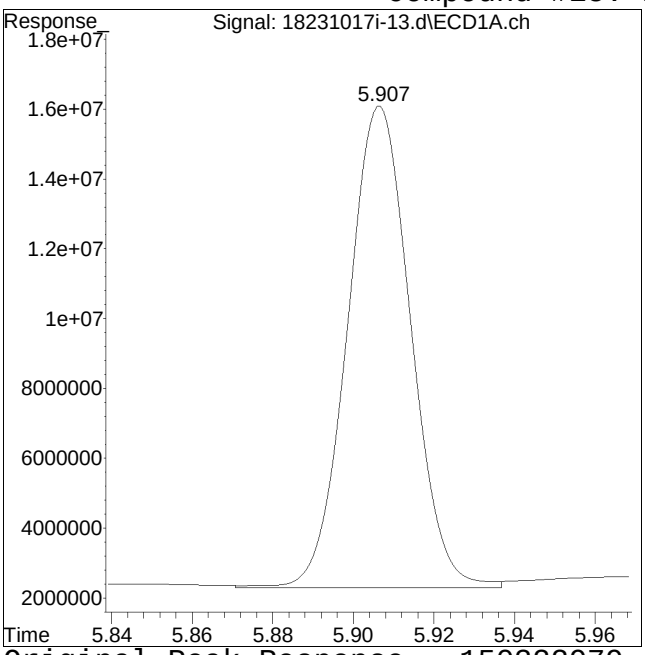


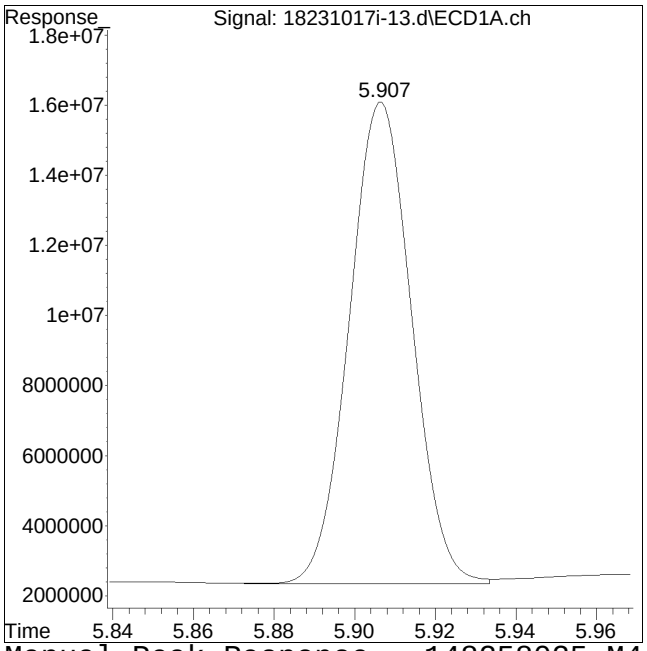
Original Peak Response = 141192298 Manual Peak Response = 137895856 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #25: Endosulfan Sulfate



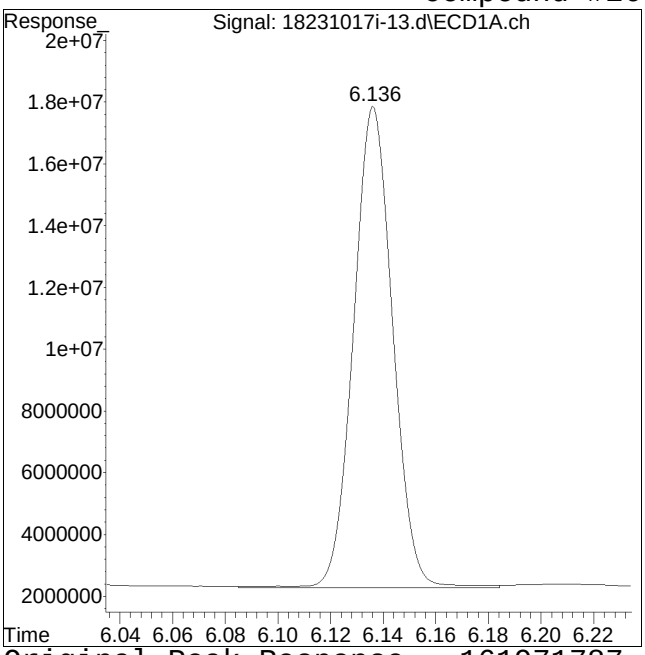


Original Peak Response = 150322979 Manual Peak Response = 148258025 M4
M4 = Poor automated baseline construction.

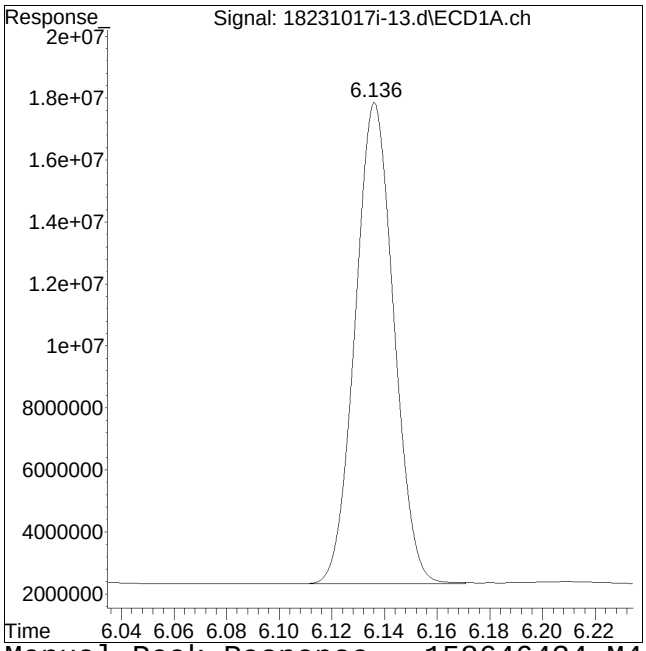
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #26: Endrin Ketone



Original Peak Response = 161971787



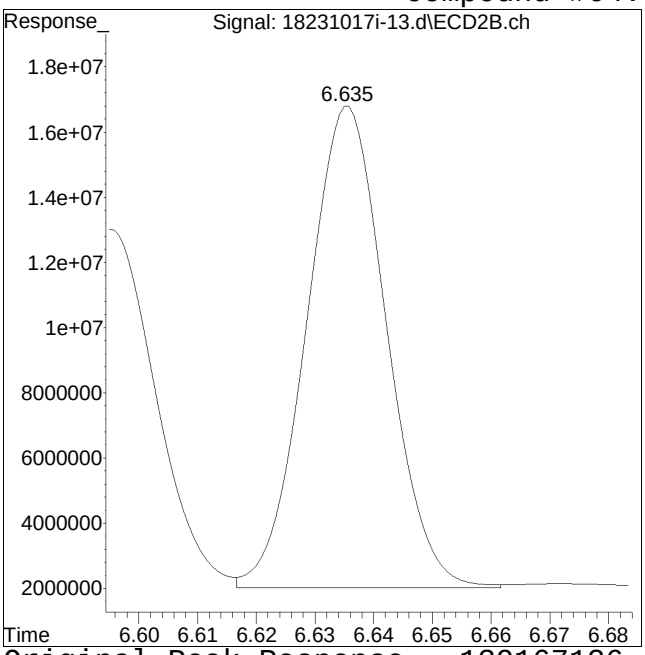
Manual Peak Response = 158646434 M4

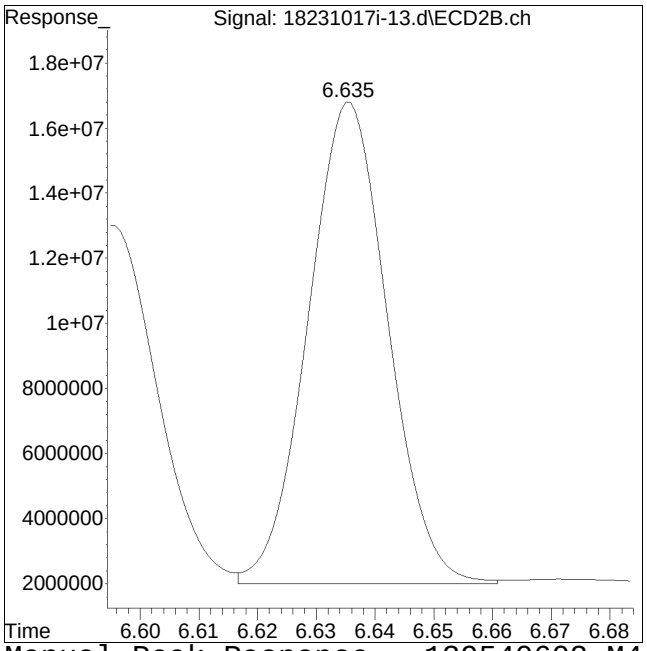
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #64: Endrin Ketone #2



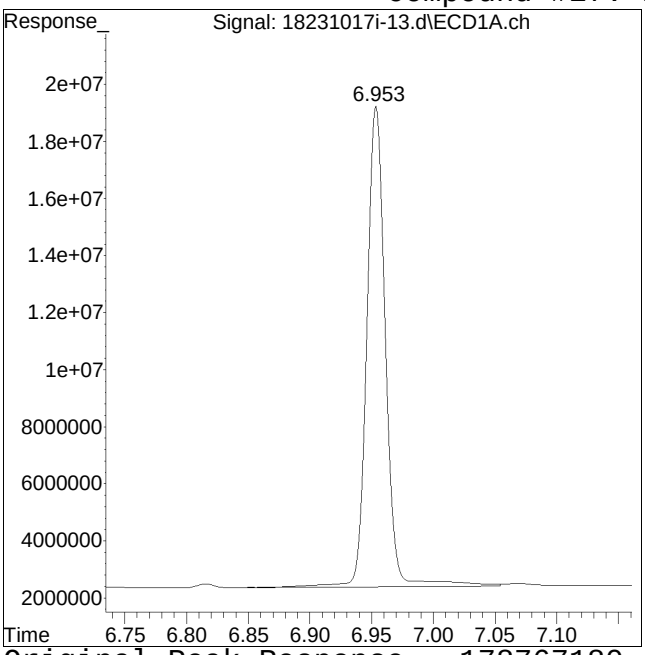


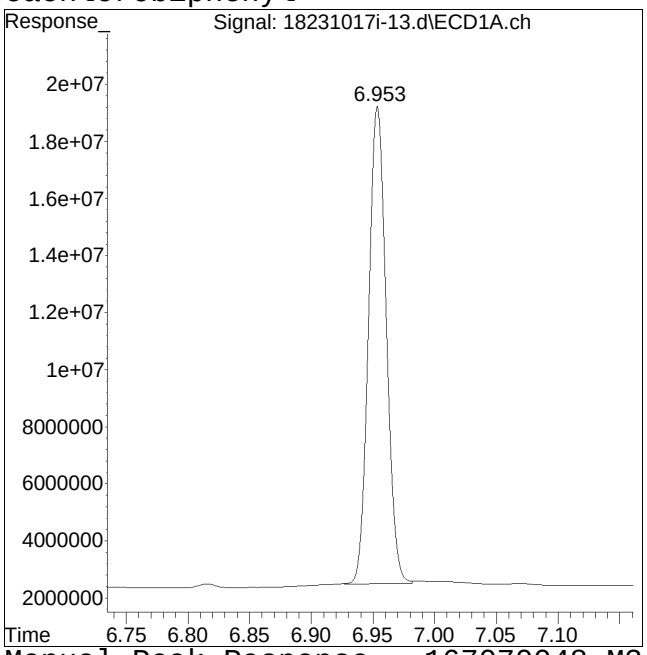
Original Peak Response = 139167126 Manual Peak Response = 139540602 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-13.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:08 pm Instrument : Pest 18
Sample : cicvpest,42e,,pp 11366 L0.Quant Date : 10/19/2023 10:44 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 178767180 Manual Peak Response = 167070048 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:20 pm
Operator : PEST18:ejl
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:24:34 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:23:27 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.722	1.770	84833655	74675963	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D.	N.D.
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:20 pm
Operator : PEST18:ejl
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:24:34 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:23:27 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D.	N.D.
25)	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
26)	Endrin Keton	0.000	0.000	0	0	N.D.	N.D.
29) l1	chlordane-1	3.096	3.312	2474716	1318465	12.016	11.795
30) l1	chlordane-3	3.466	3.921	1740226	1369286	11.613	11.687
31) l1	chlordane-4	4.033	4.598	7379018	4194880	14.902M3	10.400
32) l1	chlordane-5	4.165	4.772	8139199	3685248	10.995M3	11.264
Sum	chlordane-1			19733159	10567880	NoCal	NoCal D
Average	chlordane-1					12.381	11.287
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

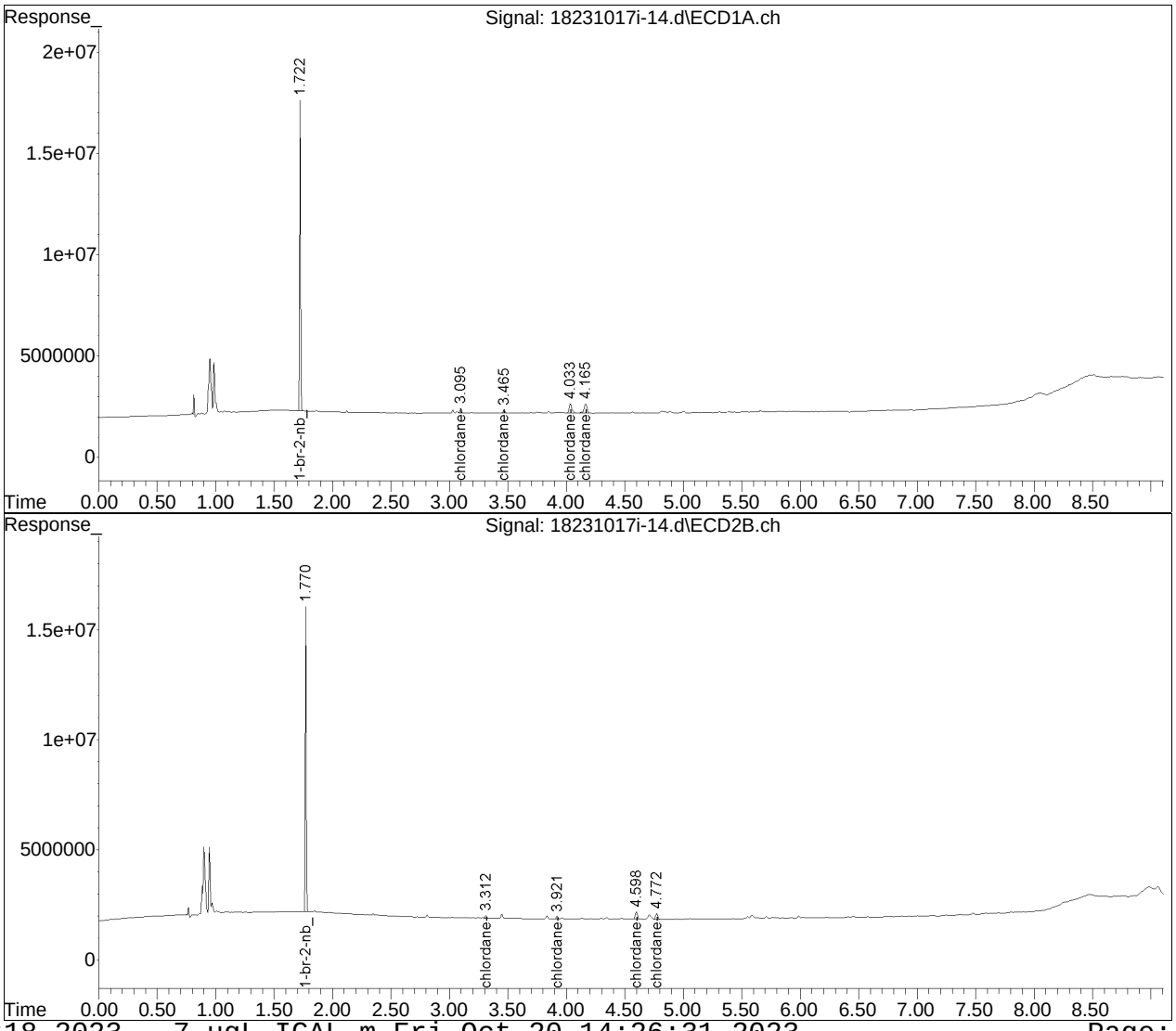
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:20 pm
Operator : PEST18:ejl
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:24:34 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:23:27 2023
Response via : Initial Calibration
Integrator: ChemStation

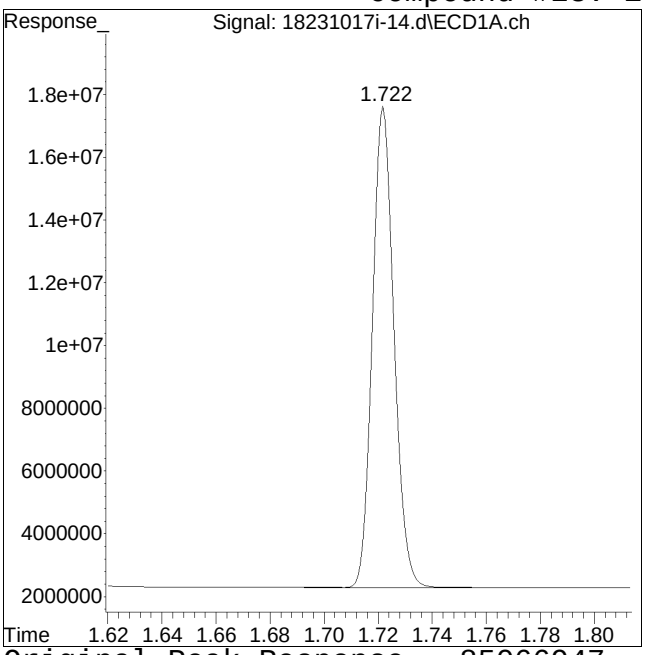
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

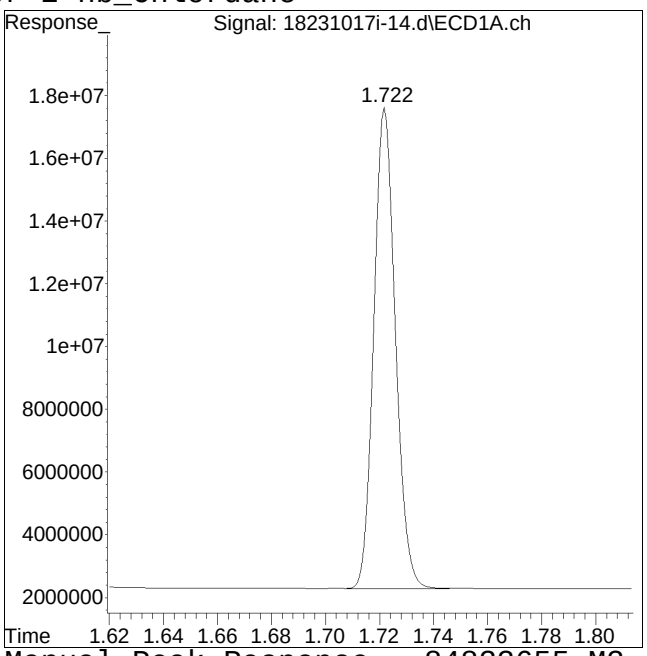


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-14.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:20 pm Instrument : Pest 18
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 10/19/2023 10:23 am

Compound #28: 1-br-2-nb_Chlordane



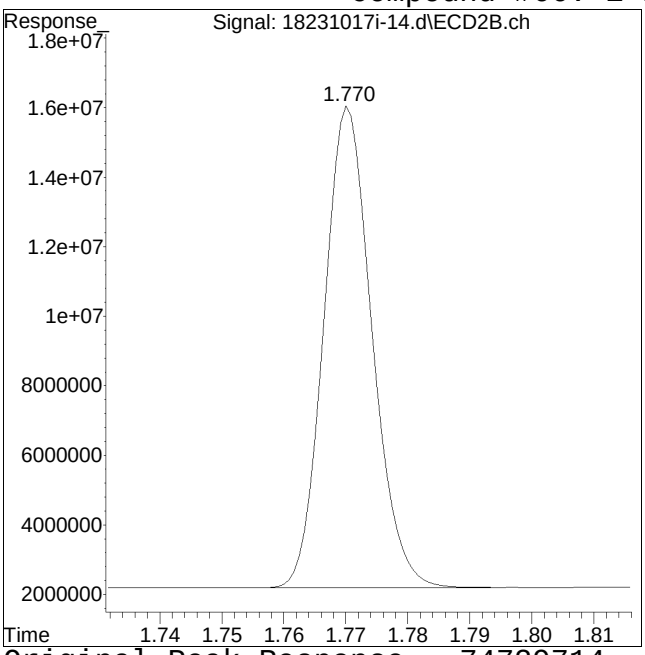


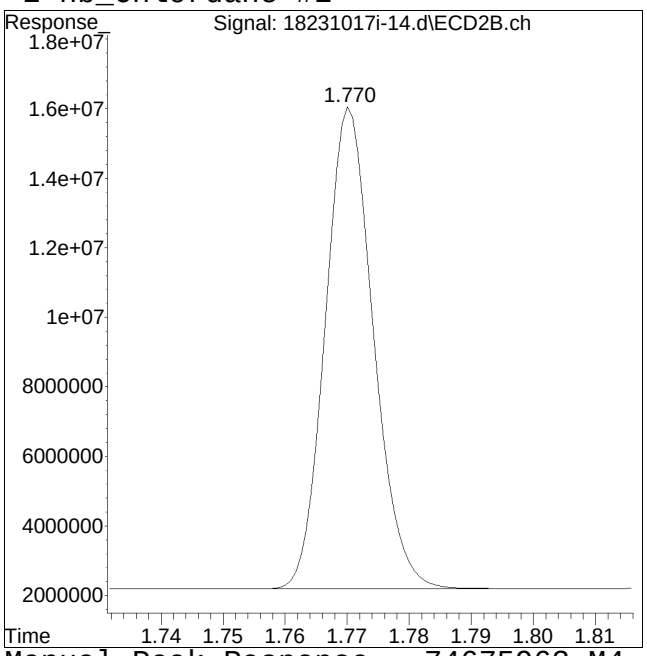
Original Peak Response = 85066947 Manual Peak Response = 84833655 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-14.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:20 pm Instrument : Pest 18
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 10/19/2023 10:23 am

Compound #66: 1-br-2-nb_Chlordane #2



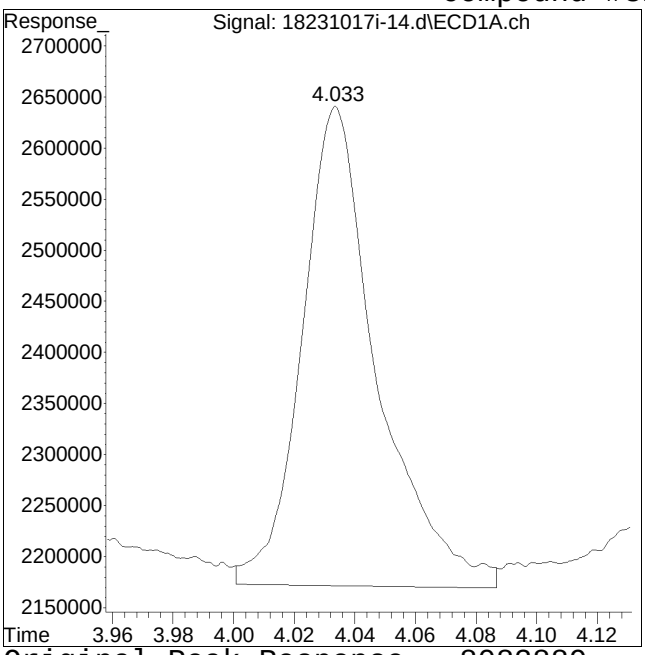


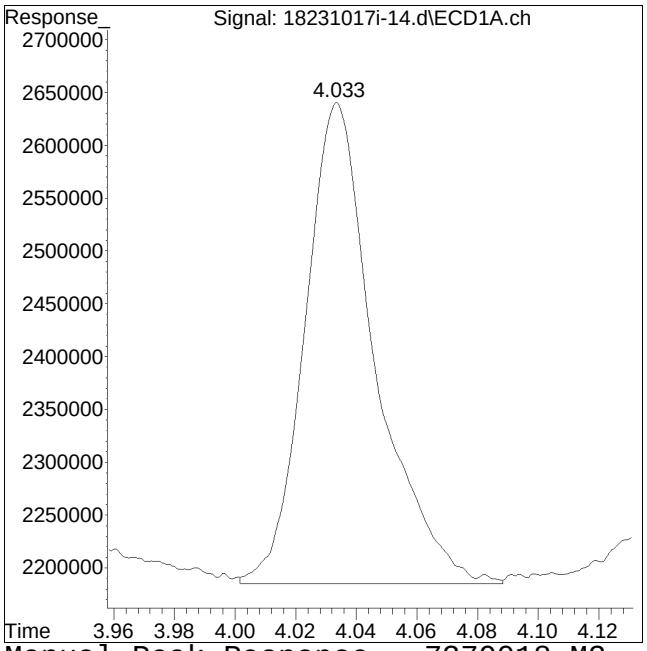
Original Peak Response = 74729714 Manual Peak Response = 74675963 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-14.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:20 pm Instrument : Pest 18
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 10/19/2023 10:23 am

Compound #31: chlordane-4



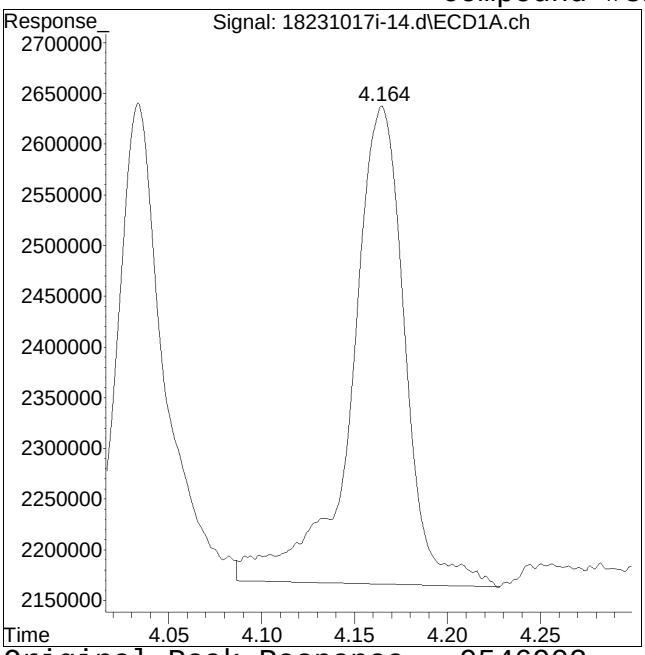


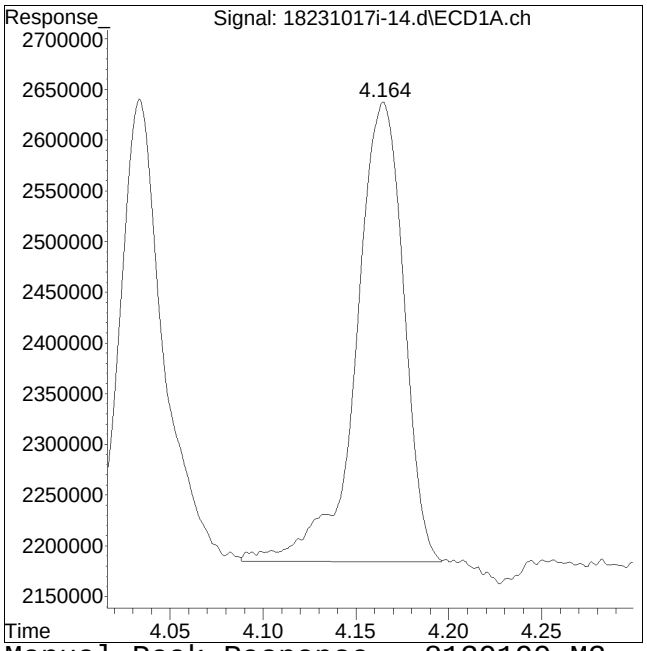
Original Peak Response = 8083889 Manual Peak Response = 7379018 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-14.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:20 pm Instrument : Pest 18
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 10/19/2023 10:23 am

Compound #32: chlordane-5





Original Peak Response = 9546902 Manual Peak Response = 8139199 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:31 pm
Operator : PEST18:ejl
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:23:10 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:22:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.721	1.770	85002981	74966640	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
21)	4,4'-DDT	0.000	0.000	0	0	N.D.	N.D.
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:31 pm
Operator : PEST18:ejl
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:23:10 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:22:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D.	N.D.
25)	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
26)	Endrin Keton	0.000	0.000	0	0	N.D.	N.D.
29) l1	chlordane-1	3.096	3.312	4506720	2441655	22.248	22.148
30) l1	chlordane-3	3.466	3.921	3475236	2644009	23.898M3	23.051
31) l1	chlordane-4	4.034	4.598	11639491	8548926	24.299	21.351
32) l1	chlordane-5	4.164	4.772	15732959	7010388	21.471M3	21.636
Sum	chlordane-1			35354406	20644978	NoCal	NoCal D
Average	chlordane-1					22.979	22.046
34) l2	toxaphene-1	0.000	0.000	0	0	N.D.	N.D.
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

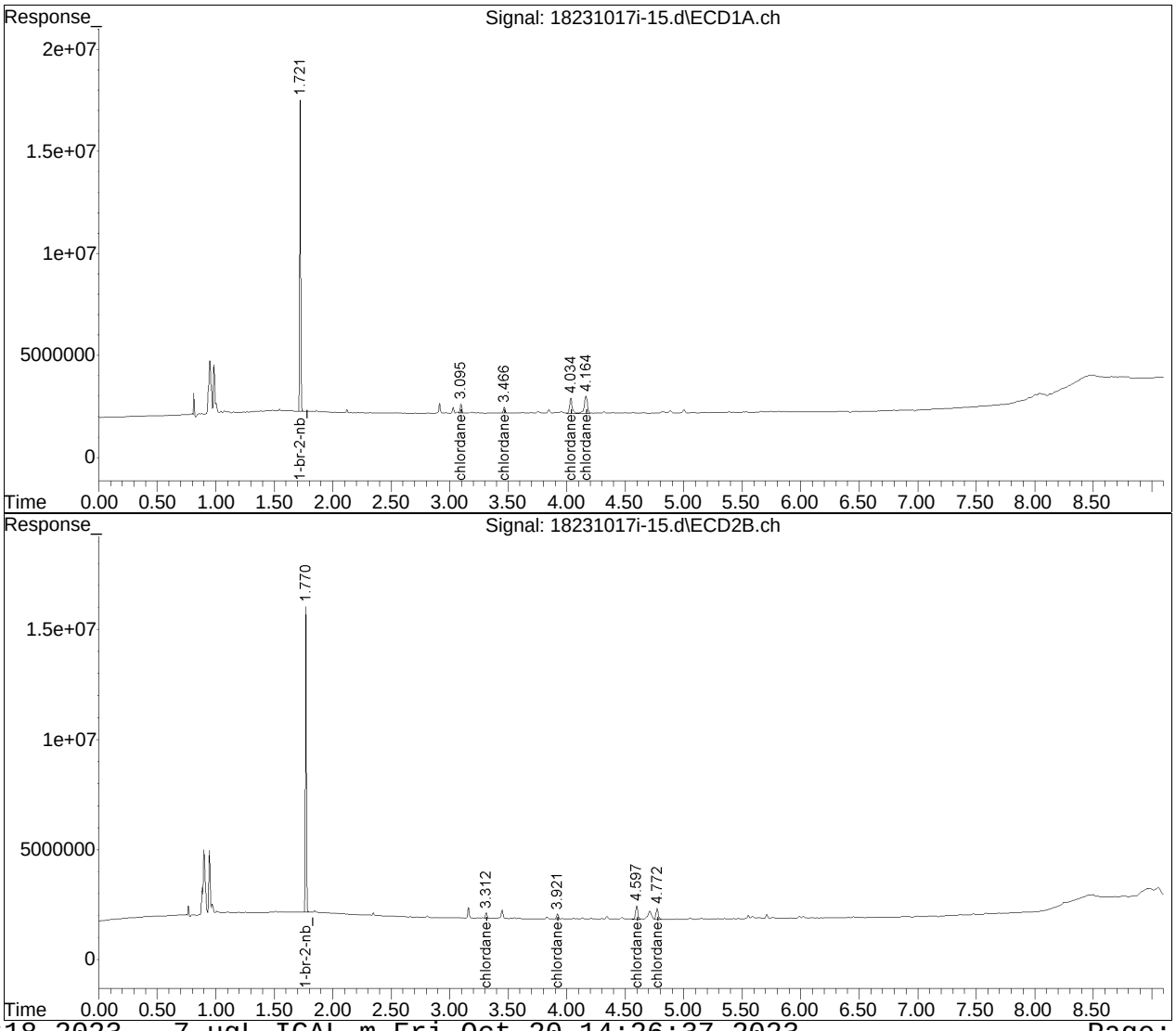
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:31 pm
Operator : PEST18:ejl
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:23:10 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:22:21 2023
Response via : Initial Calibration
Integrator: ChemStation

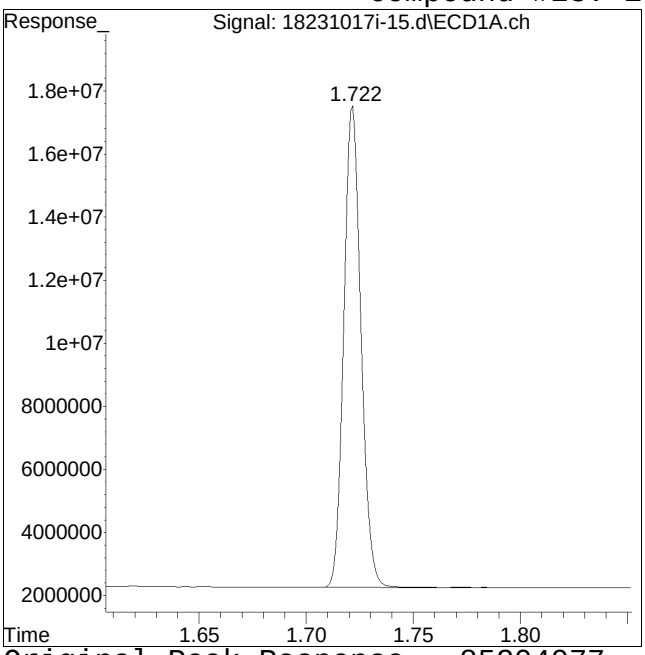
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



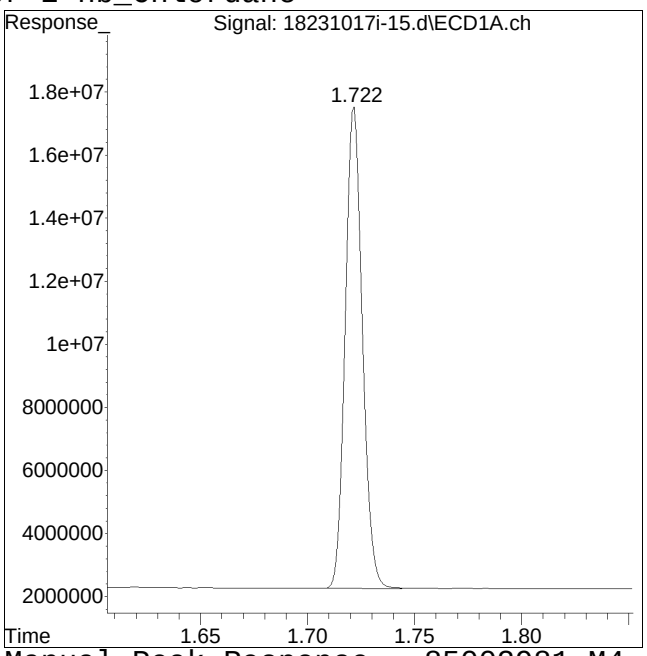
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-15.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:31 pm Instrument : Pest 18
Sample : il4chlor,42e,,pp 11324 L0.Quant Date : 10/19/2023 10:22 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 85204077



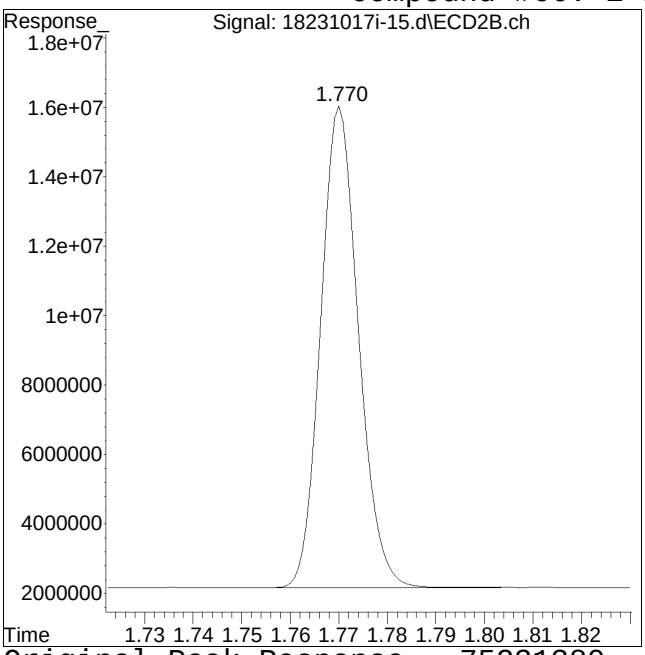
Manual Peak Response = 85002981 M4

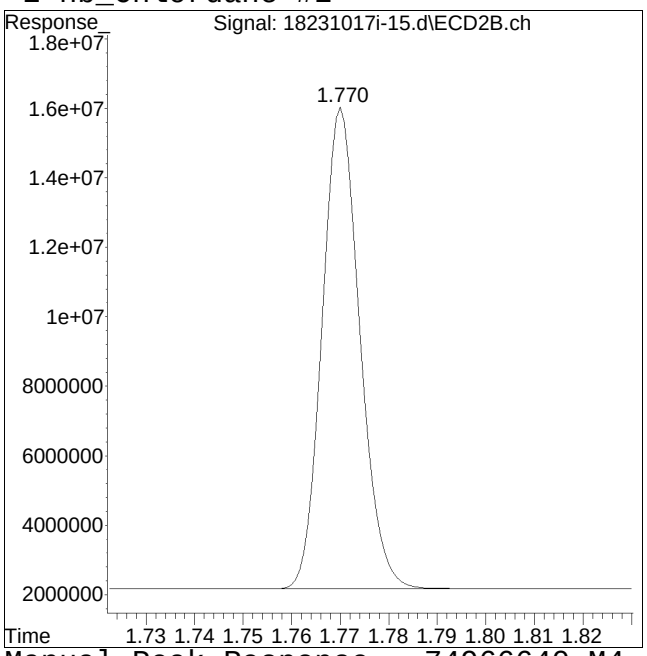
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-15.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:31 pm Instrument : Pest 18
Sample : il4chlor,42e,,pp 11324 L0.Quant Date : 10/19/2023 10:22 am

Compound #66: 1-br-2-nb_Chlordane #2



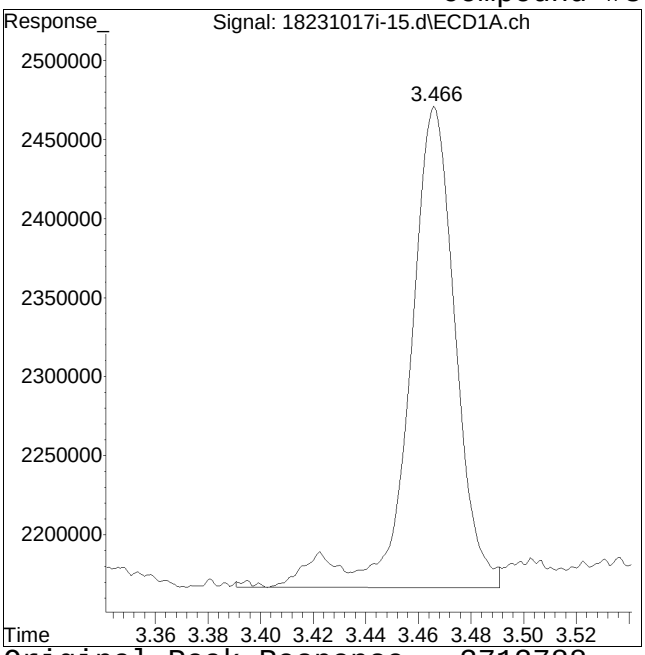


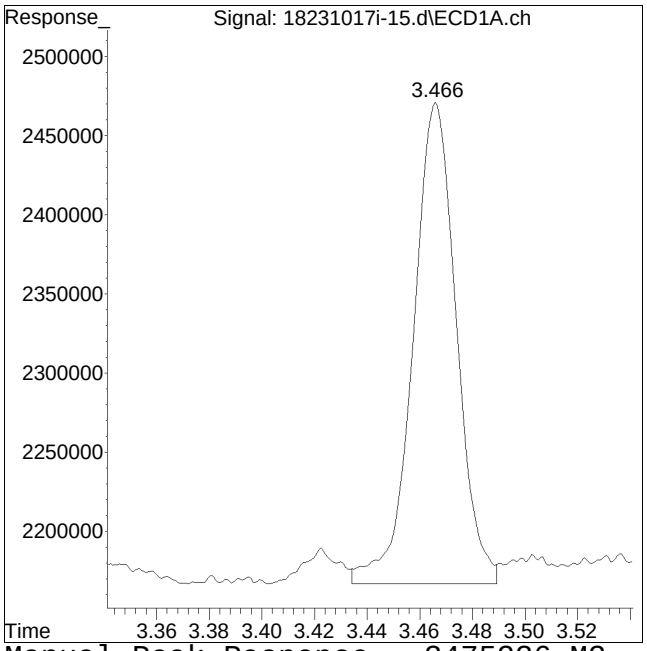
Original Peak Response = 75231380 Manual Peak Response = 74966640 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-15.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:31 pm Instrument : Pest 18
Sample : il4chlor,42e,,pp 11324 L0.Quant Date : 10/19/2023 10:22 am

Compound #30: chlordane-3



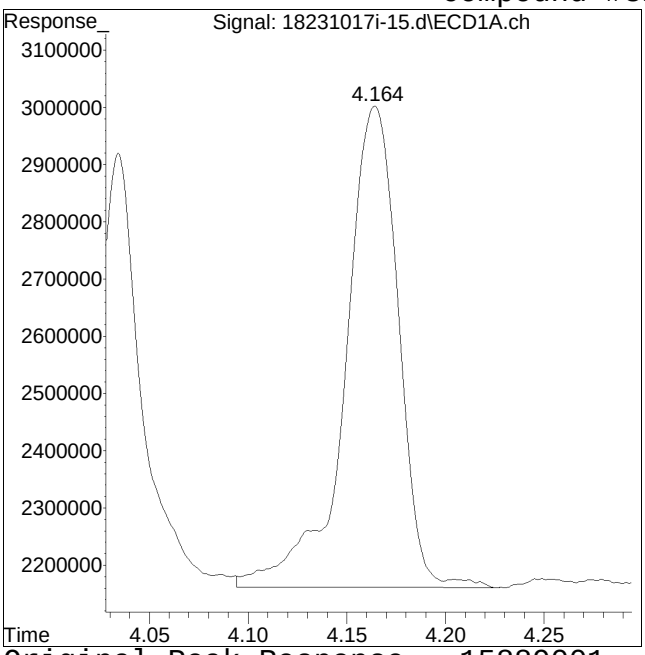


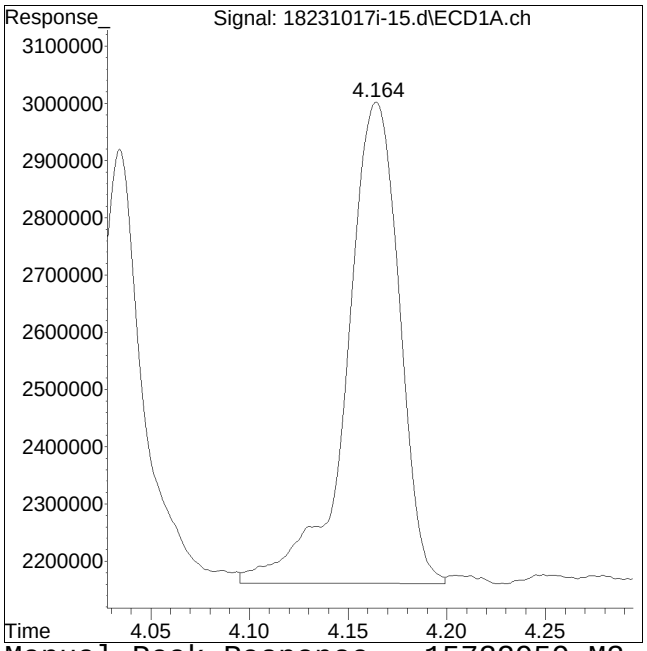
Original Peak Response = 3713788 Manual Peak Response = 3475236 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-15.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:31 pm Instrument : Pest 18
Sample : il4chlor,42e,,pp 11324 L0.Quant Date : 10/19/2023 10:22 am

Compound #32: chlordane-5





Original Peak Response = 15889001 Manual Peak Response = 15732959 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:42 pm
Operator : PEST18:ejl
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : WG1842425,ical
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:22:08 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:21:13 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.722	1.770	87456963	76963044	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:42 pm
Operator : PEST18:ejl
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : WG1842425,ical
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:22:08 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:21:13 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
26)	Endrin Keton	0.000	0.000	0	0	N.D.	N.D.
29) l1	chlordane-1	3.096	3.312	20928207	11445091	100.518	101.411
30) l1	chlordane-3	3.466	3.921	16544394	12859539	113.579M3	111.774
31) l1	chlordane-4	4.035	4.598	50607387	40170673	103.382	97.169
32) l1	chlordane-5	4.164	4.773	75465060	32959942	100.120M3	98.860
Sum	chlordane-1			163.5E6	97435245	NoCal	NoCal D
Average	chlordane-1					104.400	102.303
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

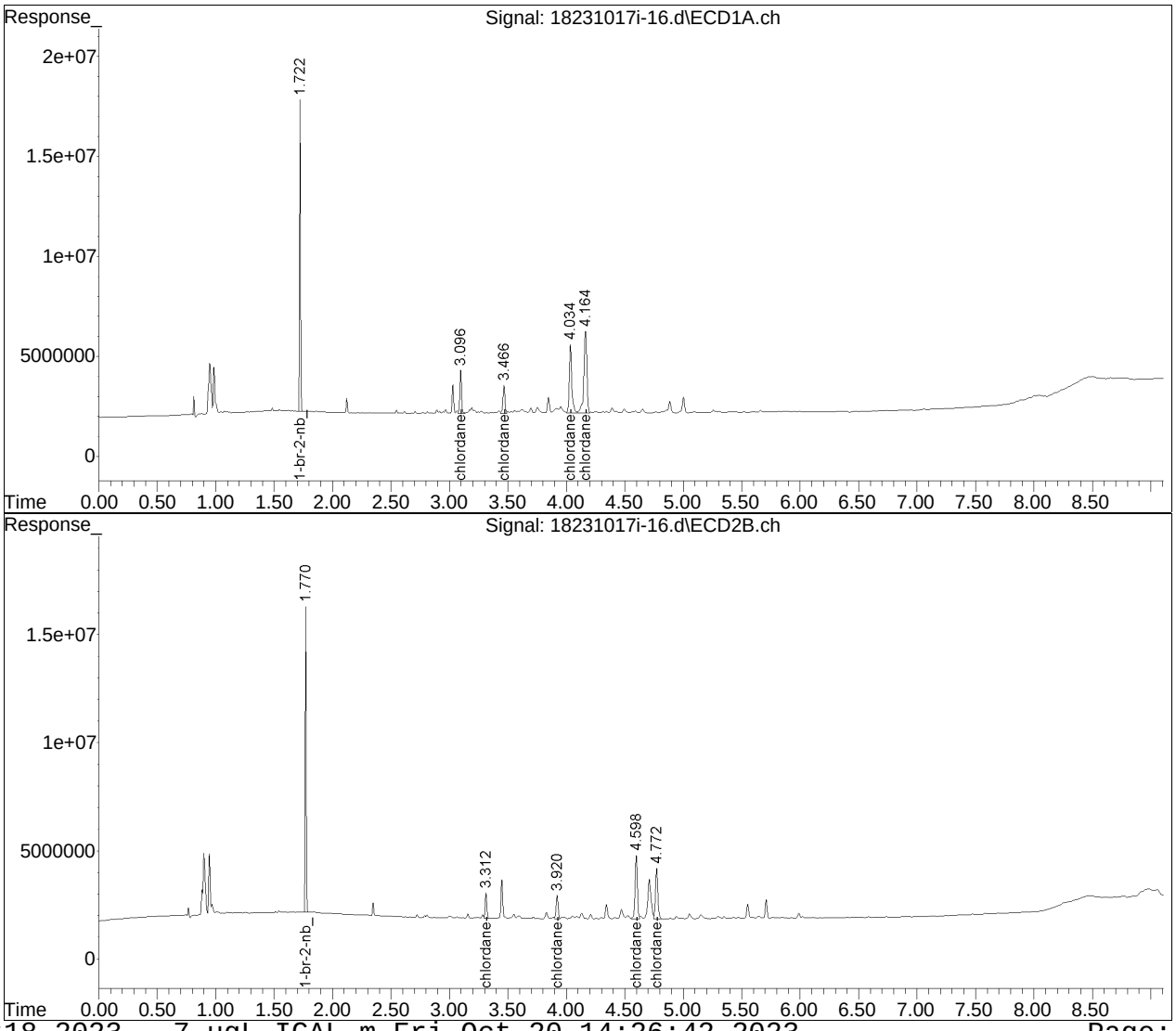
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:42 pm
Operator : PEST18:ejl
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : WG1842425,ical
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:22:08 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:21:13 2023
Response via : Initial Calibration
Integrator: ChemStation

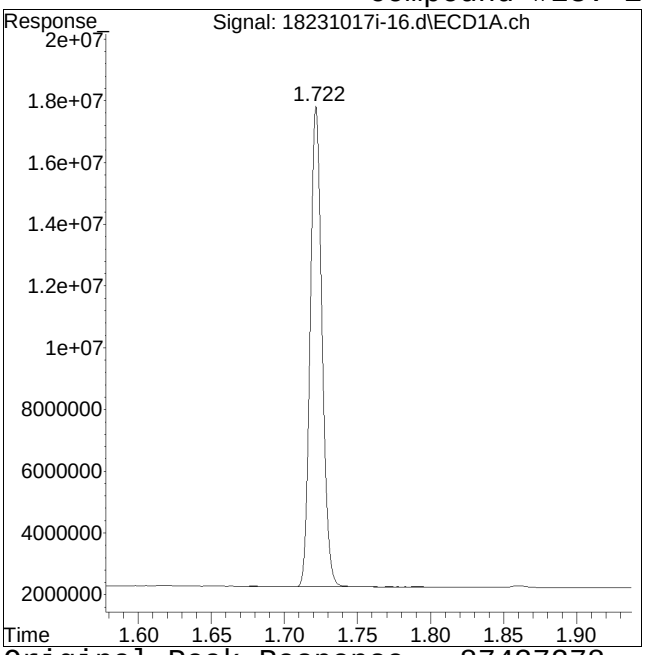
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

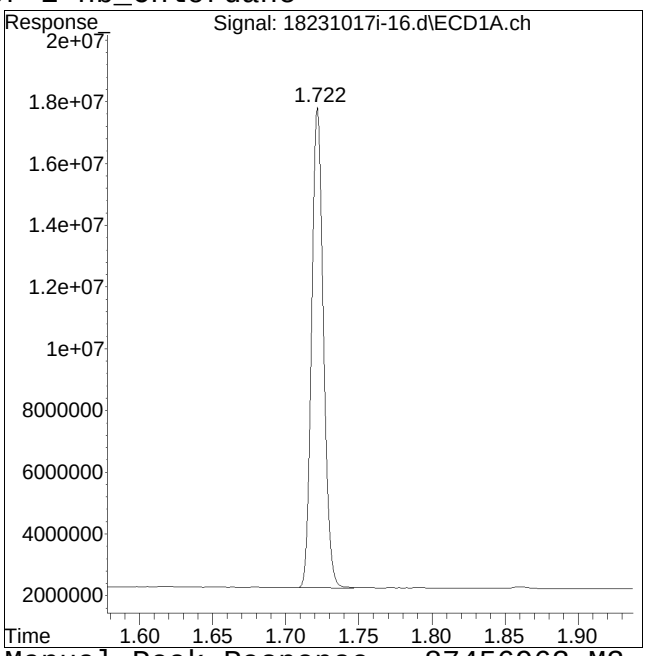


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-16.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:42 pm Instrument : Pest 18
Sample : il5chlor,42e,,pp 11323 L0.Quant Date : 10/19/2023 10:21 am

Compound #28: 1-br-2-nb_Chlordane



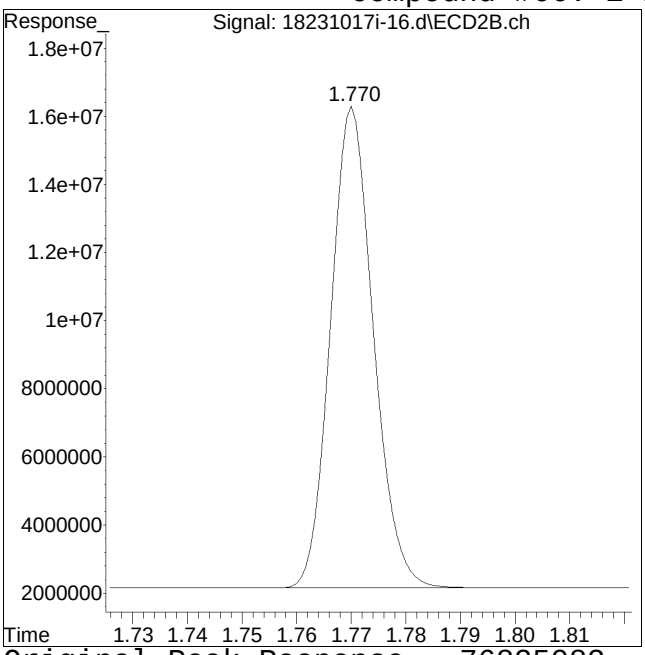


Original Peak Response = 87437278 Manual Peak Response = 87456963 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

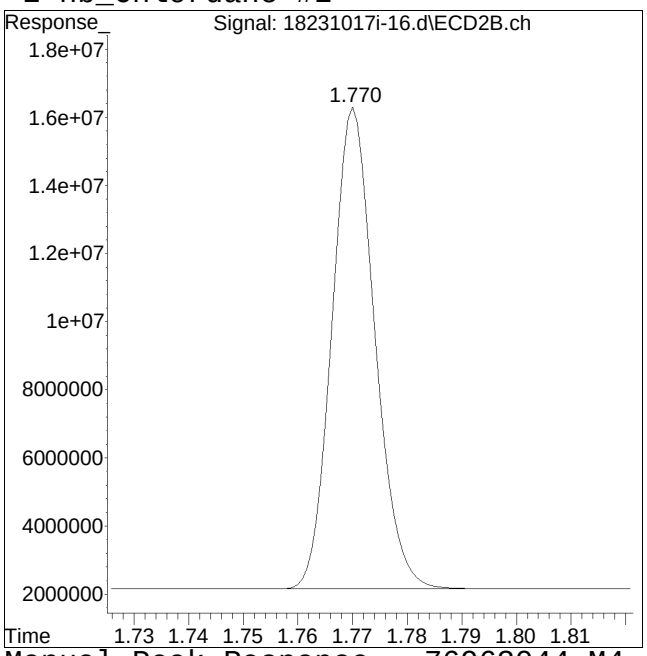
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-16.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:42 pm Instrument : Pest 18
Sample : il5chlor,42e,,pp 11323 L0.Quant Date : 10/19/2023 10:21 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 76825082



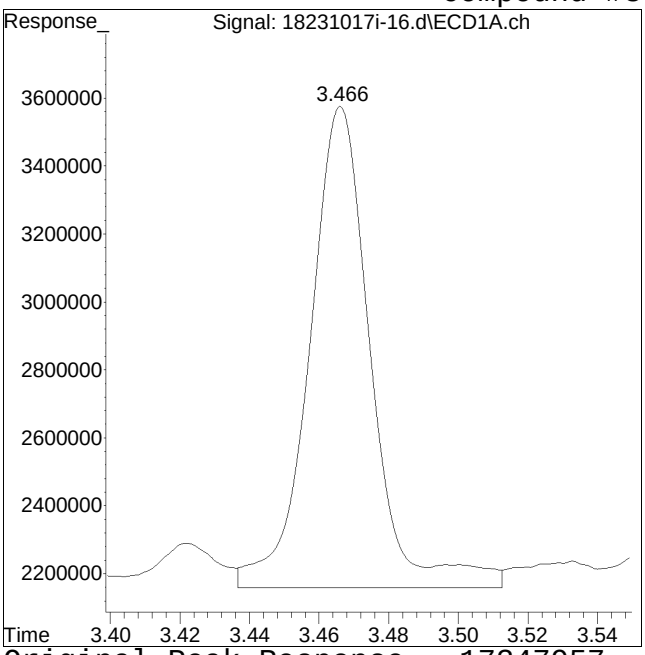
Manual Peak Response = 76963044 M4

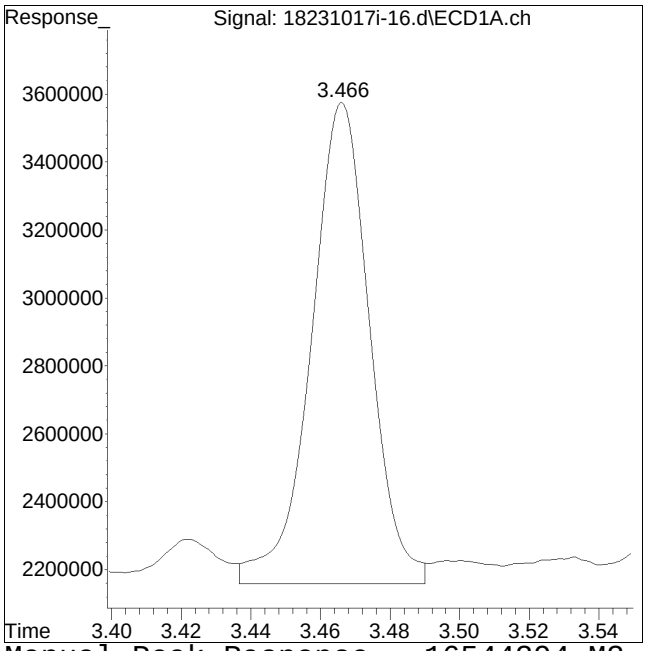
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-16.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:42 pm Instrument : Pest 18
Sample : il5chlor,42e,,pp 11323 L0.Quant Date : 10/19/2023 10:21 am

Compound #30: chlordane-3



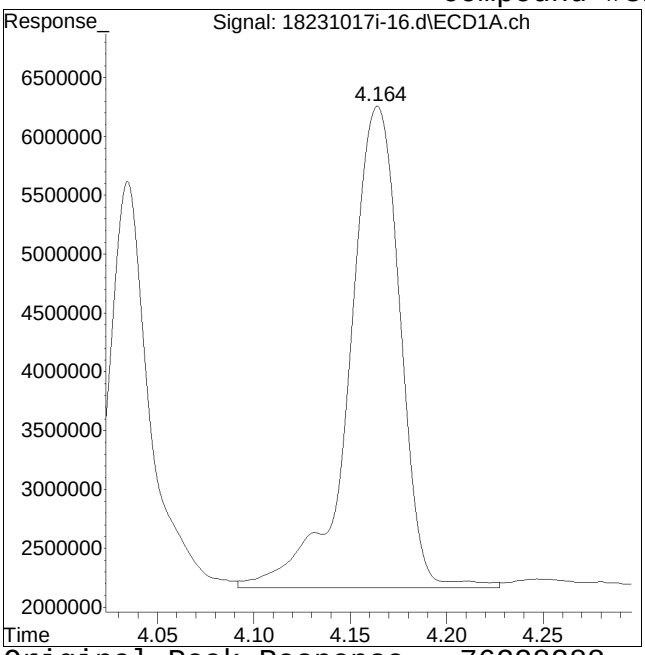


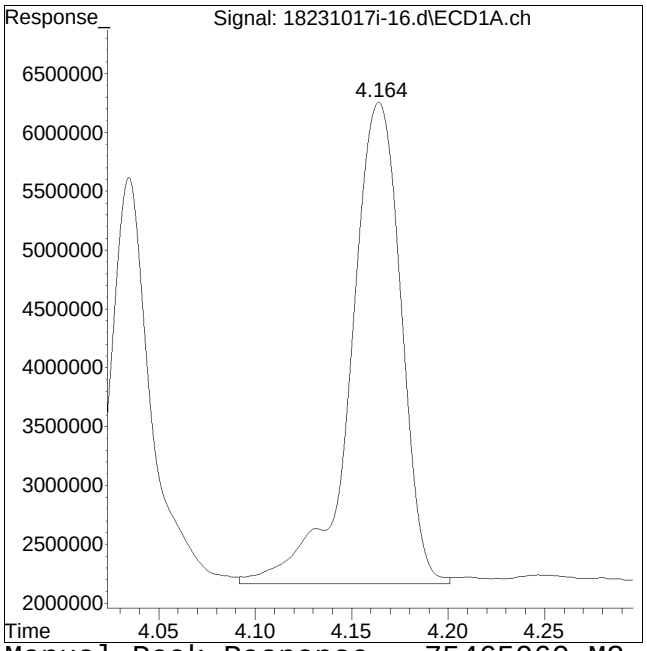
Original Peak Response = 17347957 Manual Peak Response = 16544394 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-16.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:42 pm Instrument : Pest 18
Sample : il5chlor,42e,,pp 11323 L0.Quant Date : 10/19/2023 10:21 am

Compound #32: chlordane-5





Original Peak Response = 76228288 Manual Peak Response = 75465060 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:54 pm
Operator : PEST18:ejl
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:21:01 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:19:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.721	1.770	88902453	77957732	25.000M4	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:54 pm
Operator : PEST18:ejl
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:21:01 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:19:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.096	3.312	106.7E6	58120045	505.532	511.276
30) l1	chlordane-3	3.466	3.921	79082360	61866374	546.495M3	542.034
31) l1	chlordane-4	4.035	4.598	254.4E6	211.9E6	515.229	507.971
32) l1	chlordane-5	4.164	4.772	393.1E6	171.7E6	517.630M3	511.439
Sum	chlordane-1			833.4E6	503.6E6	NoCal	NoCal D
Average	chlordane-1					521.222	518.180
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

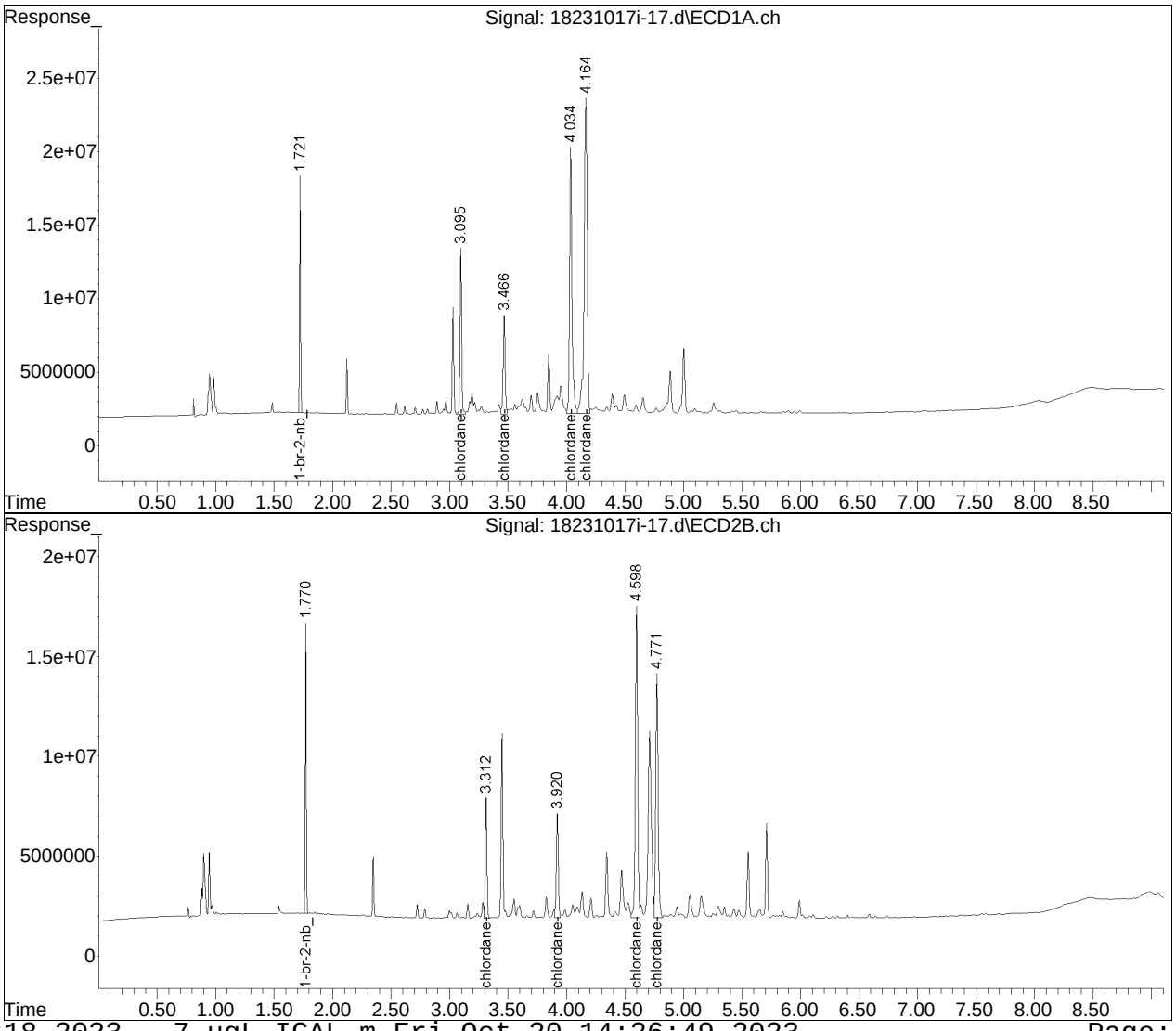
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 2:54 pm
Operator : PEST18:ejl
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:21:01 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:19:43 2023
Response via : Initial Calibration
Integrator: ChemStation

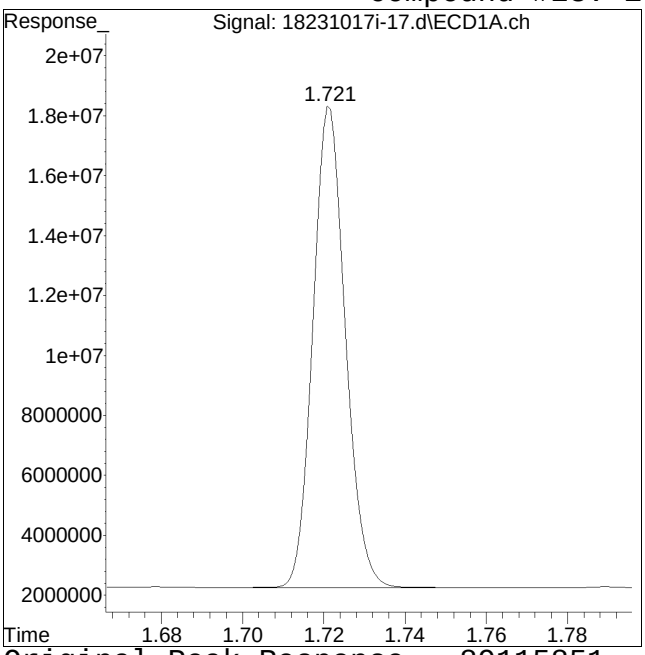
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



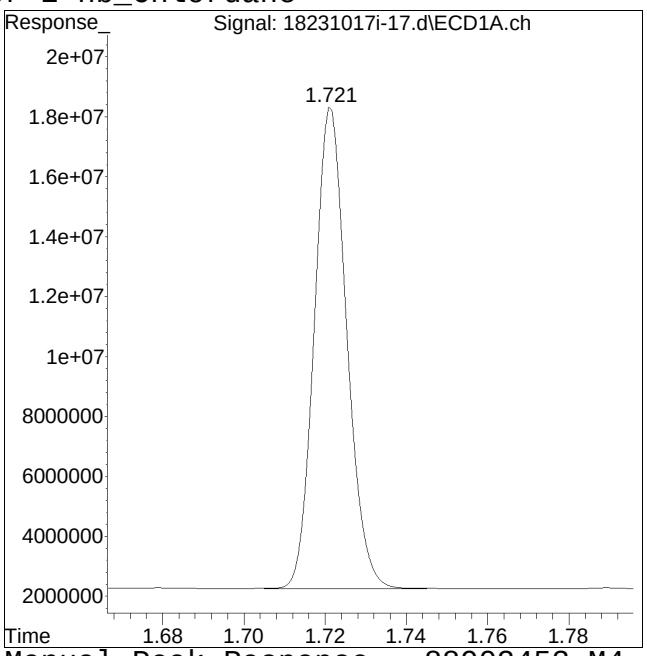
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-17.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:54 pm Instrument : Pest 18
Sample : il7chlor,42e,,pp 11322 L0.Quant Date : 10/19/2023 10:19 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 89115851



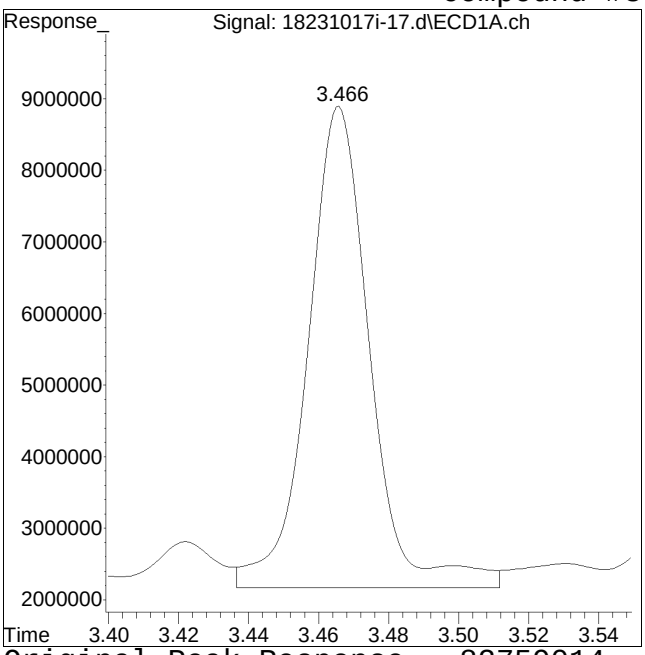
Manual Peak Response = 88902453 M4

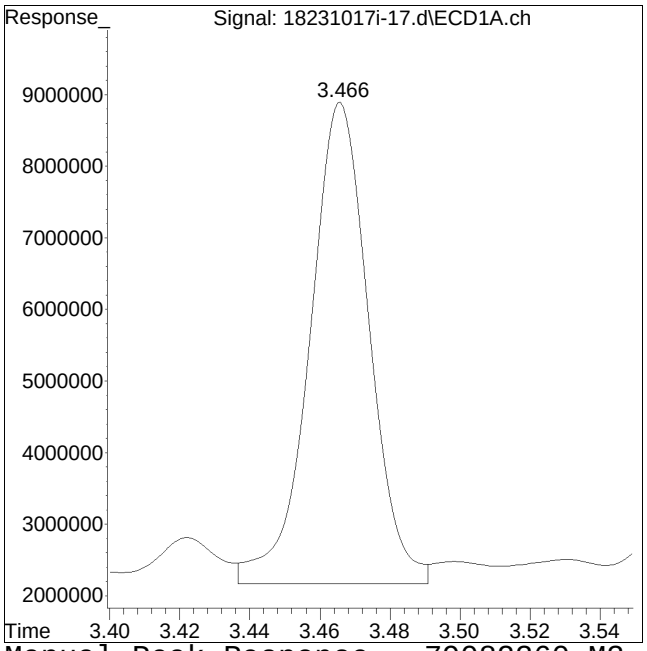
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-17.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:54 pm Instrument : Pest 18
Sample : il7chlor,42e,,pp 11322 L0.Quant Date : 10/19/2023 10:19 am

Compound #30: chlordane-3



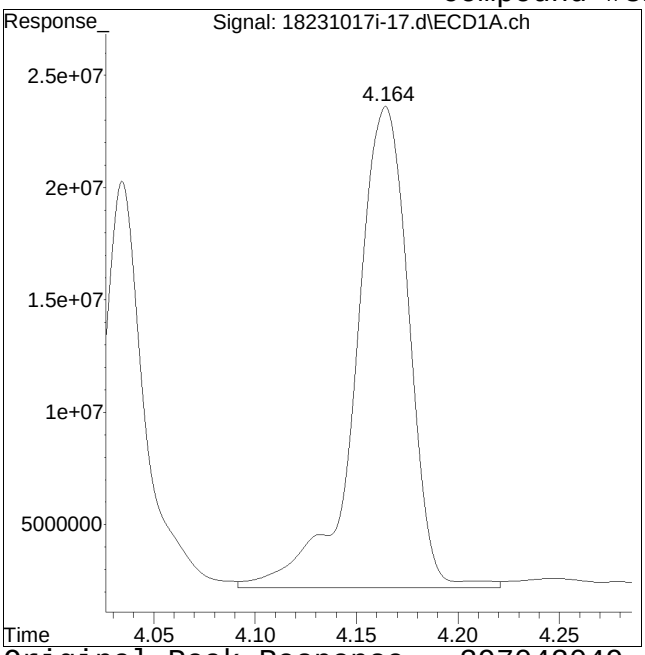


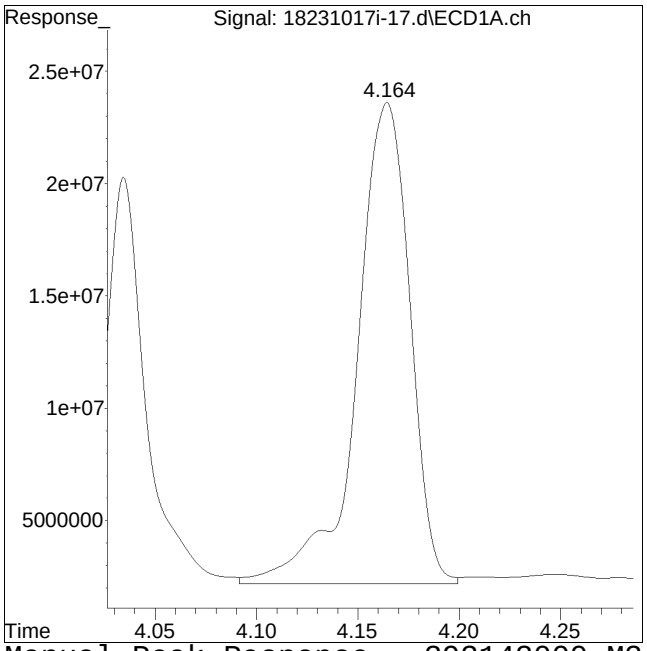
Original Peak Response = 82759014 Manual Peak Response = 79082360 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-17.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 2:54 pm Instrument : Pest 18
Sample : il7chlor,42e,,pp 11322 L0.Quant Date : 10/19/2023 10:19 am

Compound #32: chlordane-5





Original Peak Response = 397042049 Manual Peak Response = 393143000 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:05 pm
Operator : PEST18:ejl
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:16:36 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:13:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.721	1.770	85485733	75207515	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:05 pm
Operator : PEST18:ejl
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:16:36 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:13:15 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.096	3.313	203.9E6	110.6E6	NoCal	NoCal
30) l1	chlordane-3	3.466	3.921	144.8E6	114.1E6	NoCal M3	NoCal
31) l1	chlordane-4	4.035	4.599	478.1E6	402.0E6	NoCal	NoCal
32) l1	chlordane-5	4.164	4.773	735.4E6	324.0E6	NoCal M3	NoCal
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

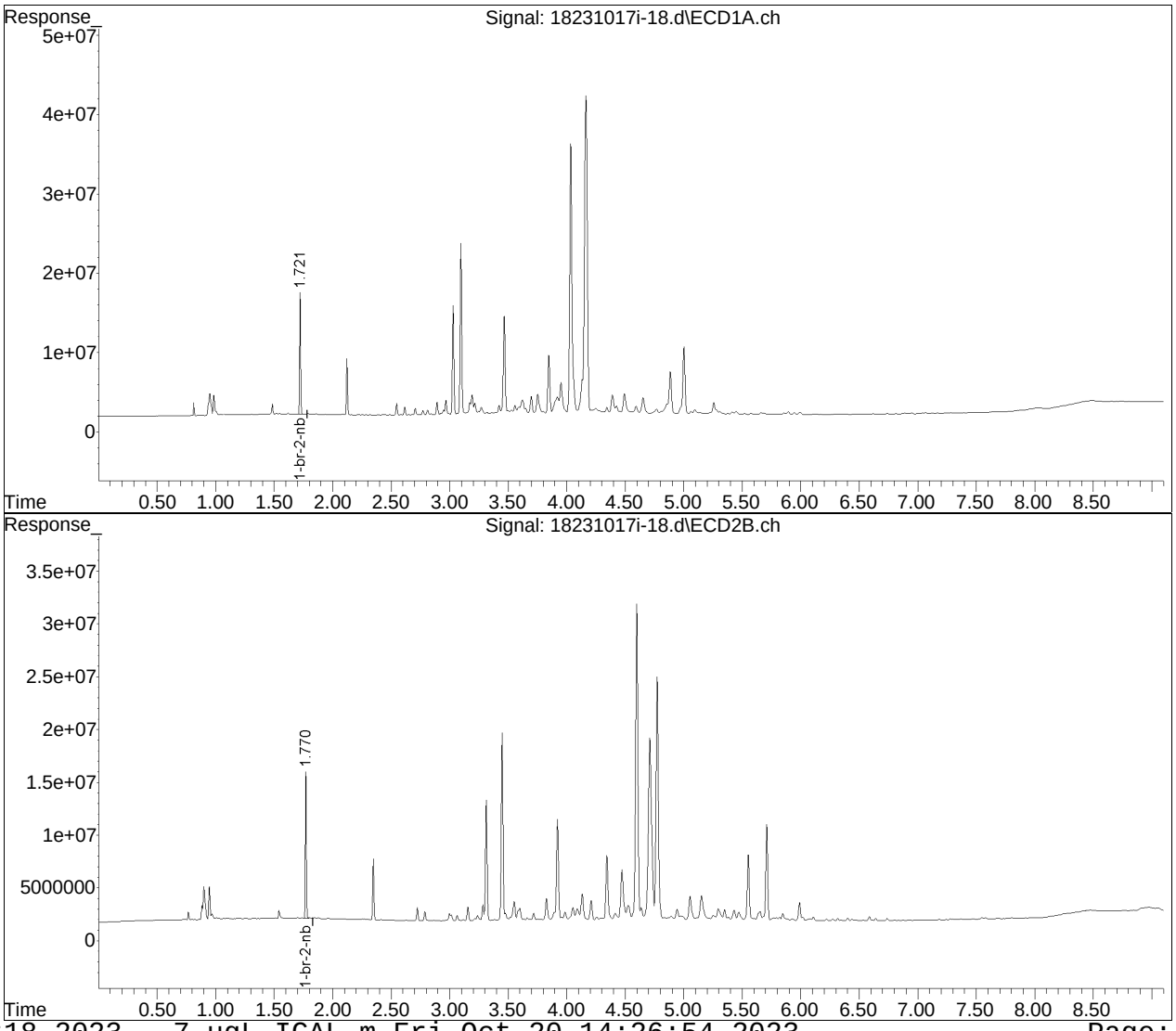
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:05 pm
Operator : PEST18:ejl
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:16:36 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:13:15 2023
Response via : Initial Calibration
Integrator: ChemStation

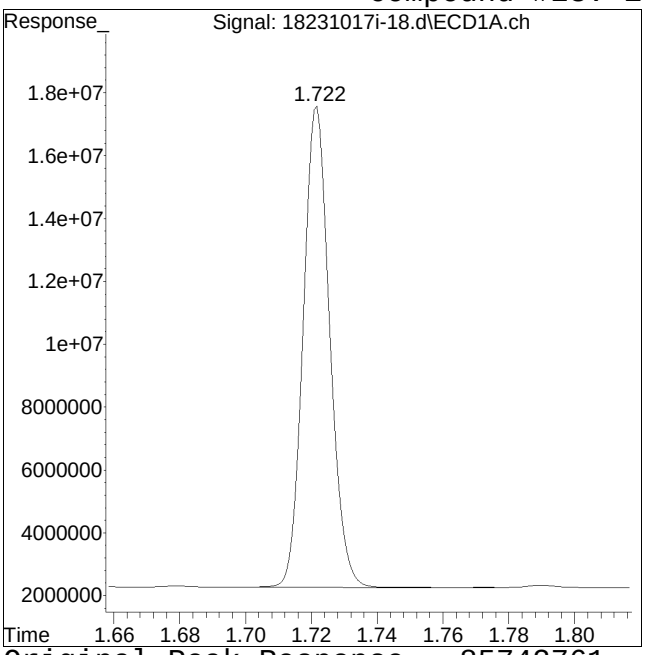
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

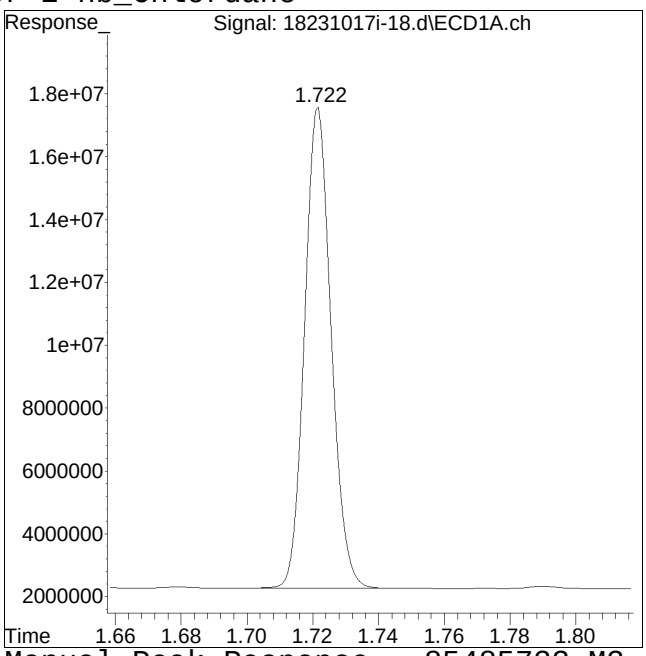


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-18.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:05 pm Instrument : Pest 18
Sample : il8chlor,42e,,pp 11321 L1.Quant Date : 10/19/2023 10:15 am

Compound #28: 1-br-2-nb_Chlordane



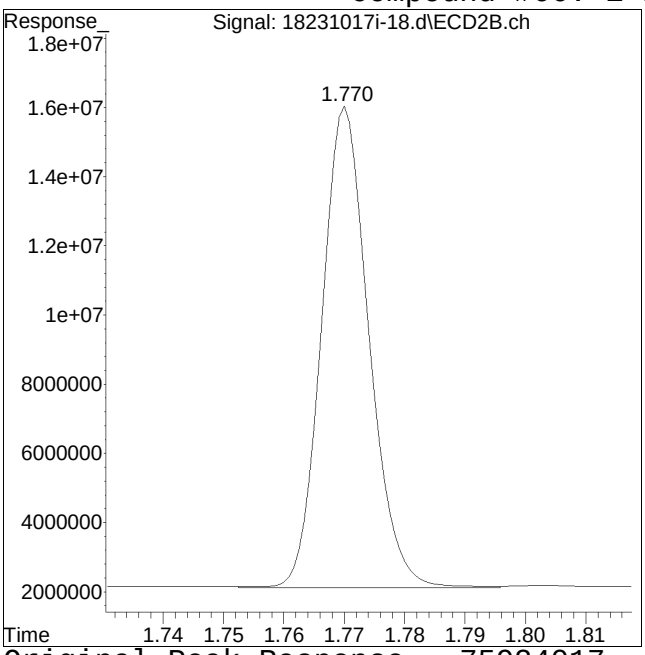


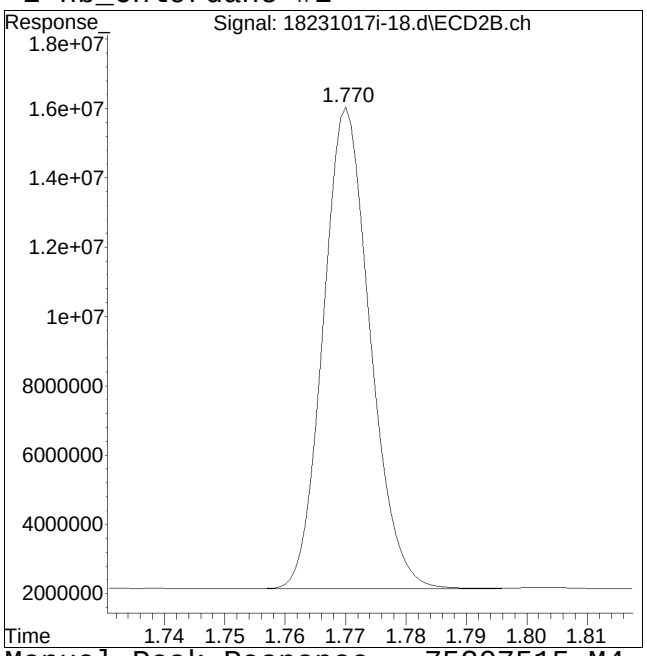
Original Peak Response = 85742761 Manual Peak Response = 85485733 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-18.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:05 pm Instrument : Pest 18
Sample : il8chlor,42e,,pp 11321 L1.Quant Date : 10/19/2023 10:15 am

Compound #66: 1-br-2-nb_Chlordane #2



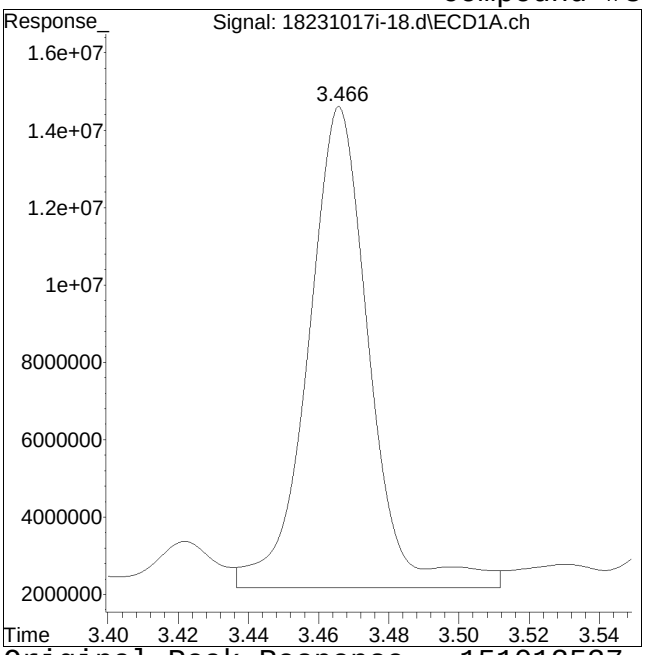


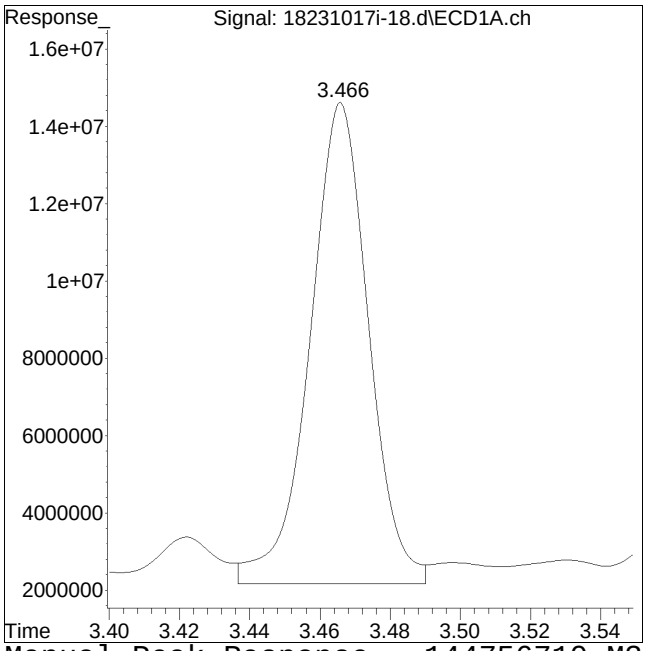
Original Peak Response = 75924017 Manual Peak Response = 75207515 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-18.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:05 pm Instrument : Pest 18
Sample : il8chlor,42e,,pp 11321 L1.Quant Date : 10/19/2023 10:15 am

Compound #30: chlordane-3



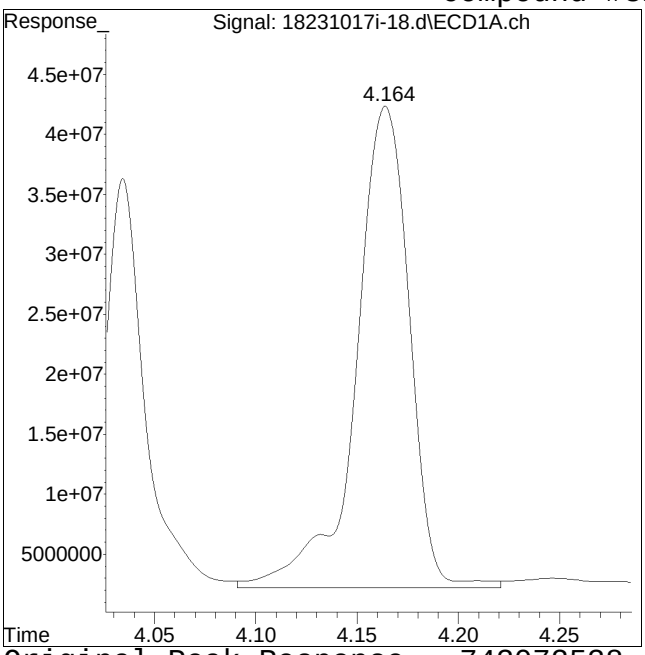


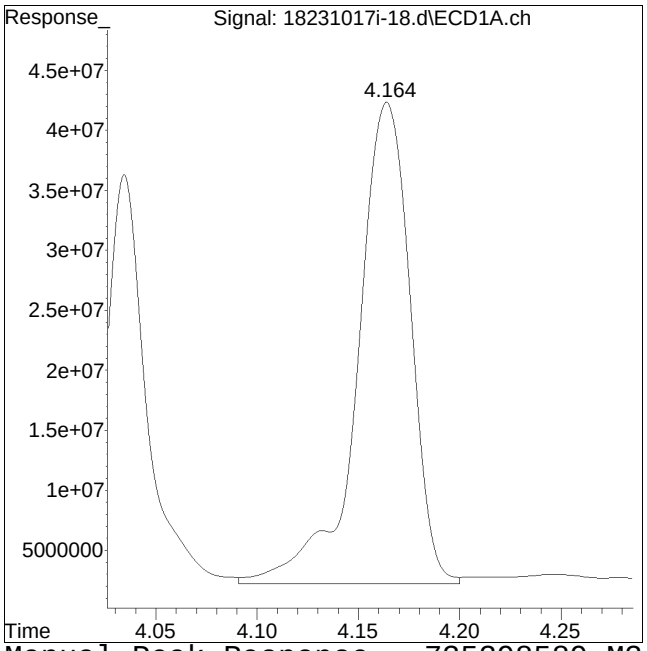
Original Peak Response = 151012537 Manual Peak Response = 144756710 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-18.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:05 pm Instrument : Pest 18
Sample : il8chlor,42e,,pp 11321 L1.Quant Date : 10/19/2023 10:15 am

Compound #32: chlordane-5





Original Peak Response = 743072538 Manual Peak Response = 735398589 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:17 pm
Operator : PEST18:ejl
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:18:09 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:16:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.722	1.770	89383559	78478440	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:17 pm
Operator : PEST18:ejl
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:18:09 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:16:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.096	3.312	432.3E6	232.7E6	2028.313	2016.522
30)	l1	chlordane-3	3.466	3.920	293.7E6	232.6E6	1940.420M3	1954.392
31)	l1	chlordane-4	4.035	4.598	1004.5E6	850.7E6	2009.626	2027.675
32)	l1	chlordane-5	4.164	4.772	1543.2E6	683.5E6	2006.900M3	2021.275
	Sum	chlordane-1			3273.7E6	1999.4E6	NoCal	NoCal D
Average		chlordane-1					1996.315	2004.966
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

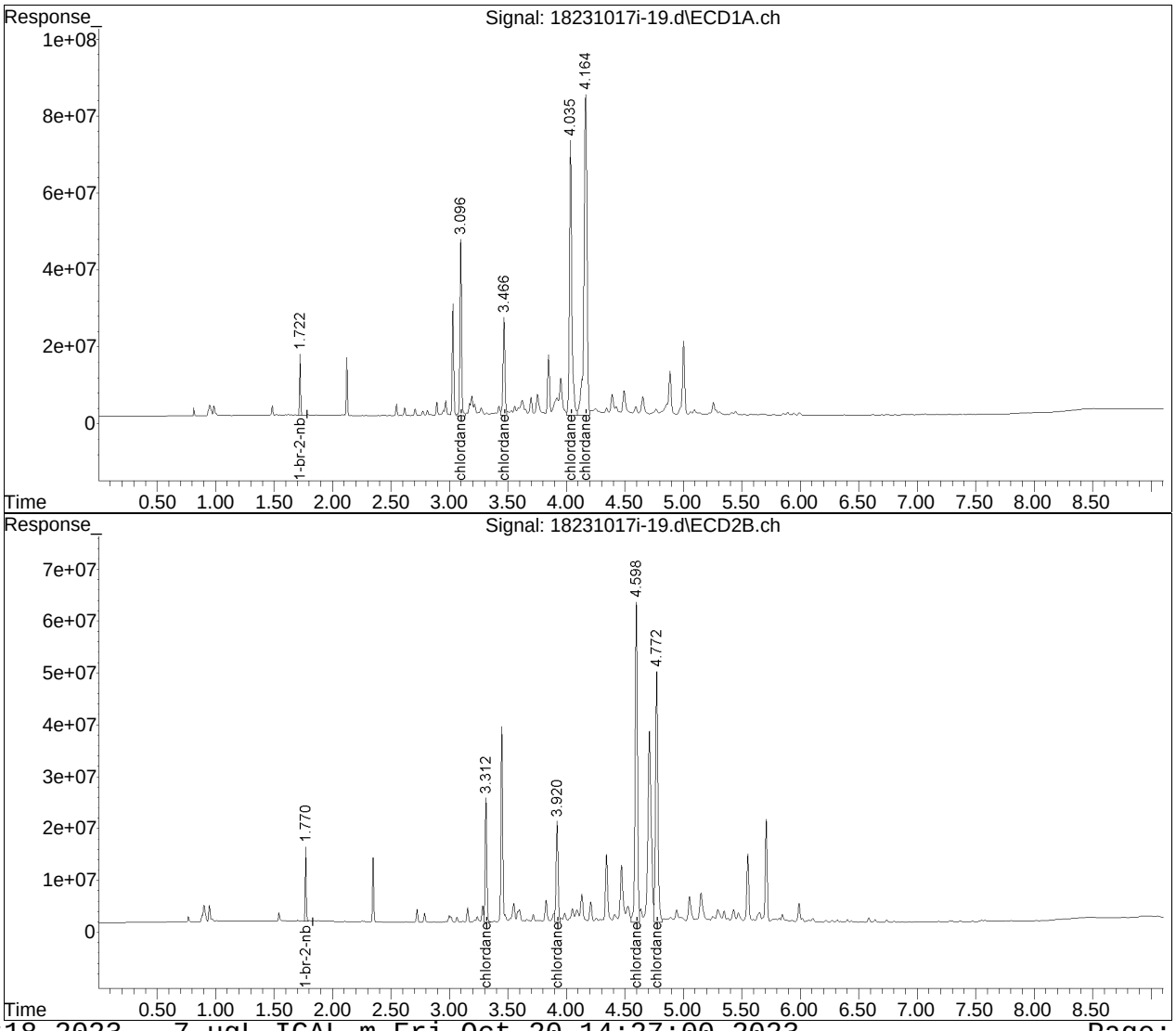
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:17 pm
Operator : PEST18:ejl
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:18:09 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:16:48 2023
Response via : Initial Calibration
Integrator: ChemStation

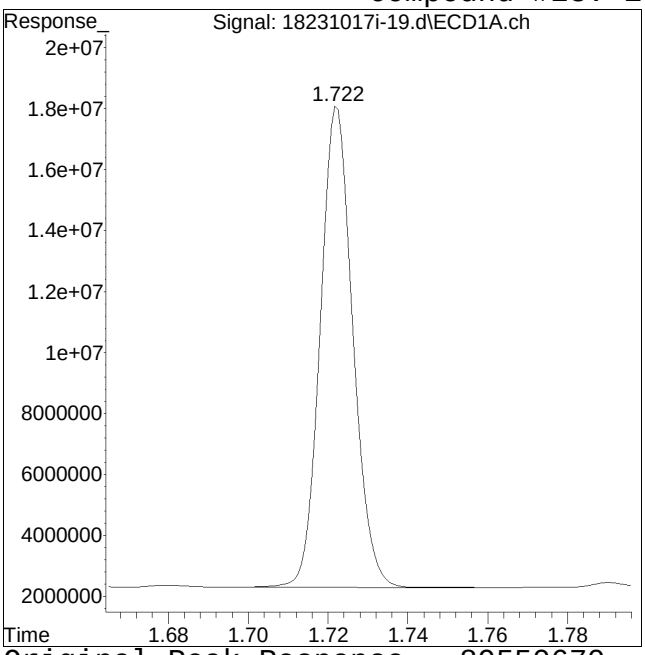
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



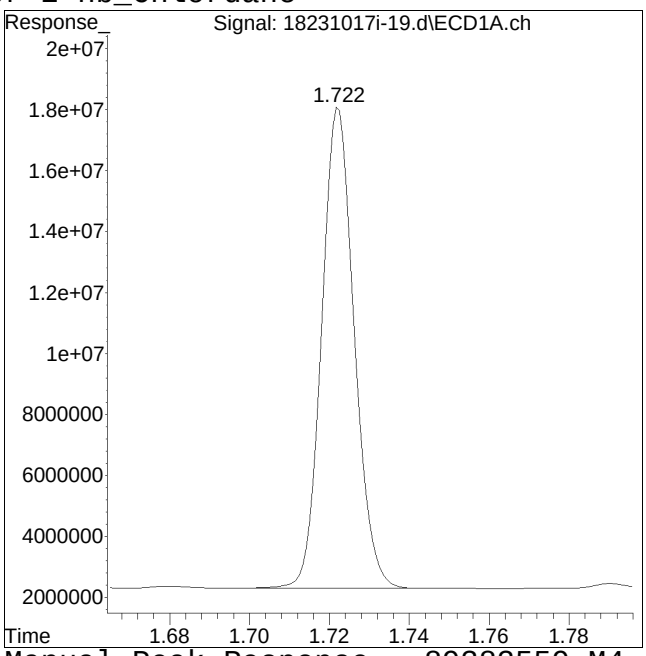
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-19.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:17 pm Instrument : Pest 18
Sample : il9chlor,42e,,pp 11320 L2.Quant Date : 10/19/2023 10:16 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 89550670



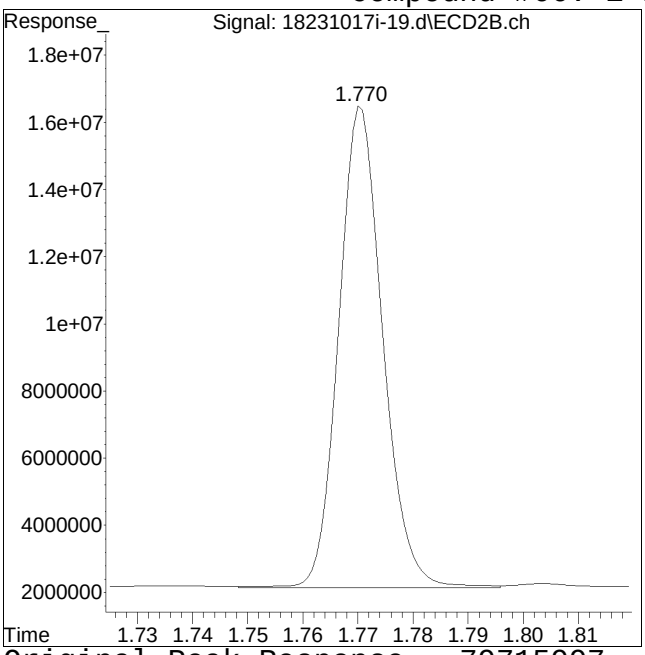
Manual Peak Response = 89383559 M4

M4 = Poor automated baseline construction.

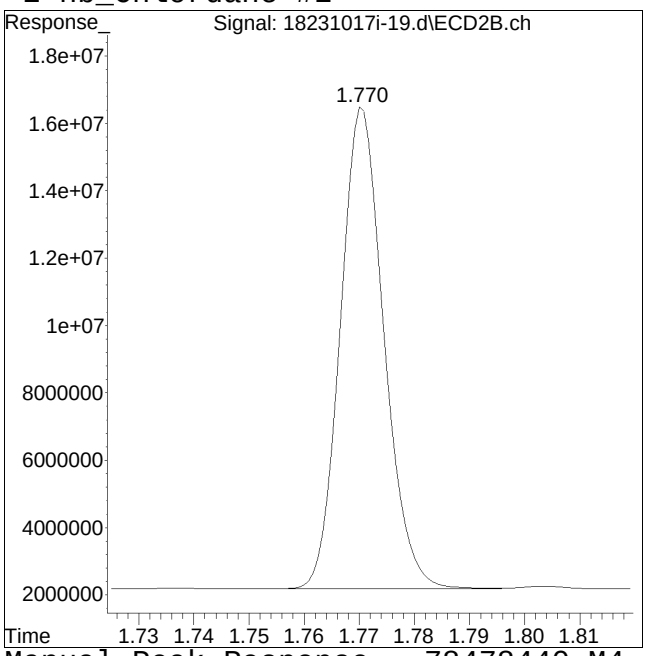
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-19.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:17 pm Instrument : Pest 18
Sample : il9chlor,42e,,pp 11320 L2.Quant Date : 10/19/2023 10:16 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 79715997



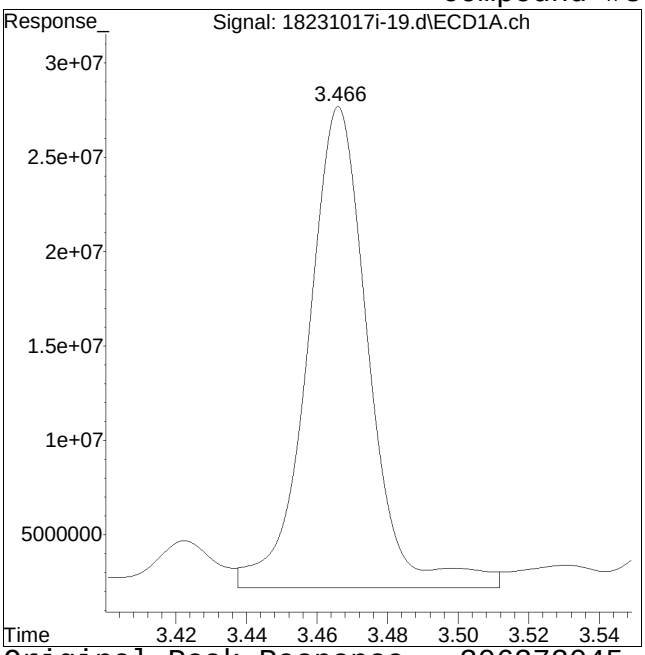
Manual Peak Response = 78478440 M4

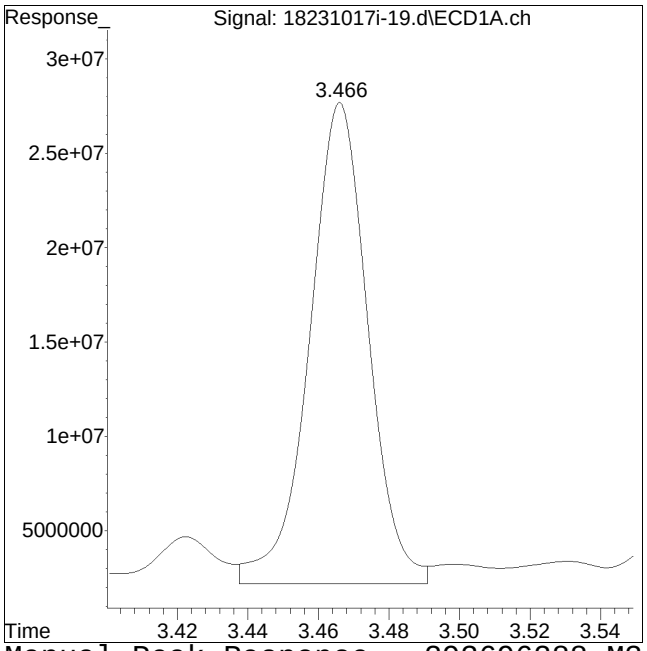
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-19.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:17 pm Instrument : Pest 18
Sample : il9chlor,42e,,pp 11320 L2.Quant Date : 10/19/2023 10:16 am

Compound #30: chlordane-3



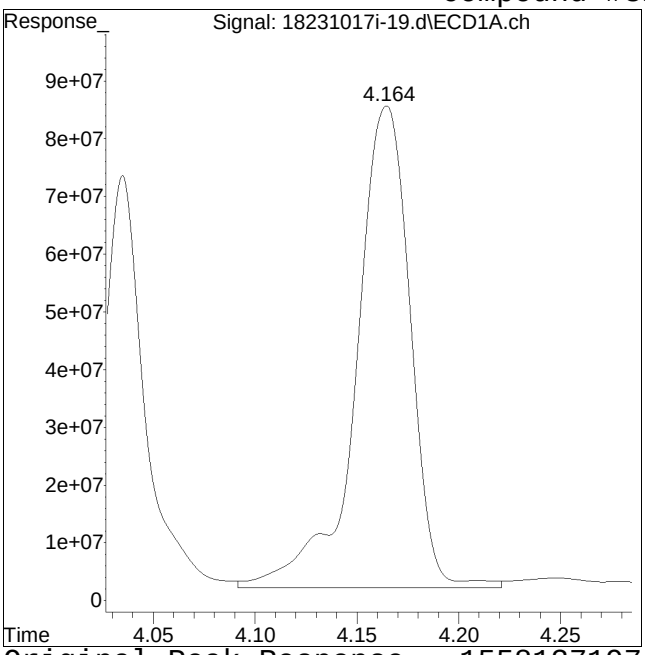


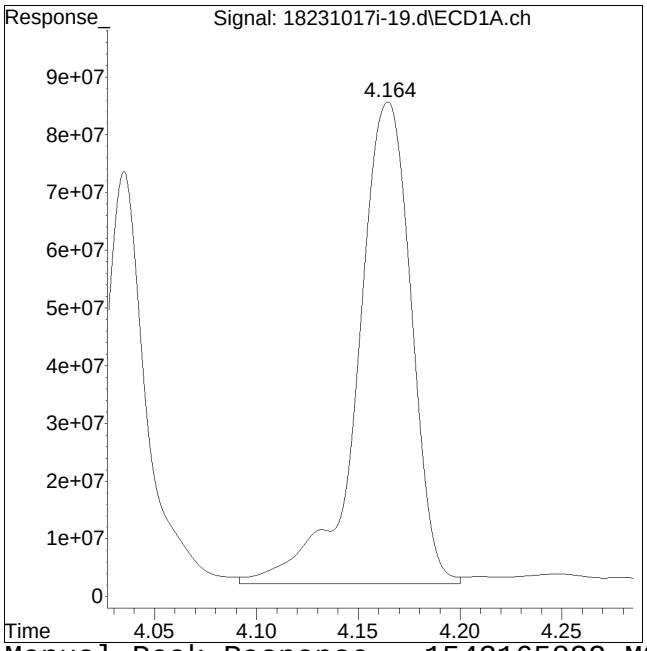
Original Peak Response = 306372045 Manual Peak Response = 293696288 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-19.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:17 pm Instrument : Pest 18
Sample : il9chlor,42e,,pp 11320 L2.Quant Date : 10/19/2023 10:16 am

Compound #32: chlordane-5





Original Peak Response = 1558137197 Manual Peak Response = 1543165832 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:28 pm
Operator : PEST18:ejl
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:19:28 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:18:24 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.721	1.770	90702439	79551210	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:28 pm
Operator : PEST18:ejl
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:19:28 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:18:24 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.096	3.312	1051.7E6	565.6E6	4828.332	4815.959
30)	l1	chlordane-3	3.466	3.921	701.5E6	554.4E6	4636.693M3	4648.947
31)	l1	chlordane-4	4.035	4.598	2473.2E6	2102.2E6	4864.148	4909.322
32)	l1	chlordane-5	4.164	4.772	3807.0E6	1694.0E6	4870.682M3	4916.010
	Sum	chlordane-1			8033.5E6	4916.2E6	NoCal	NoCal D
Average		chlordane-1					4799.964	4822.560
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

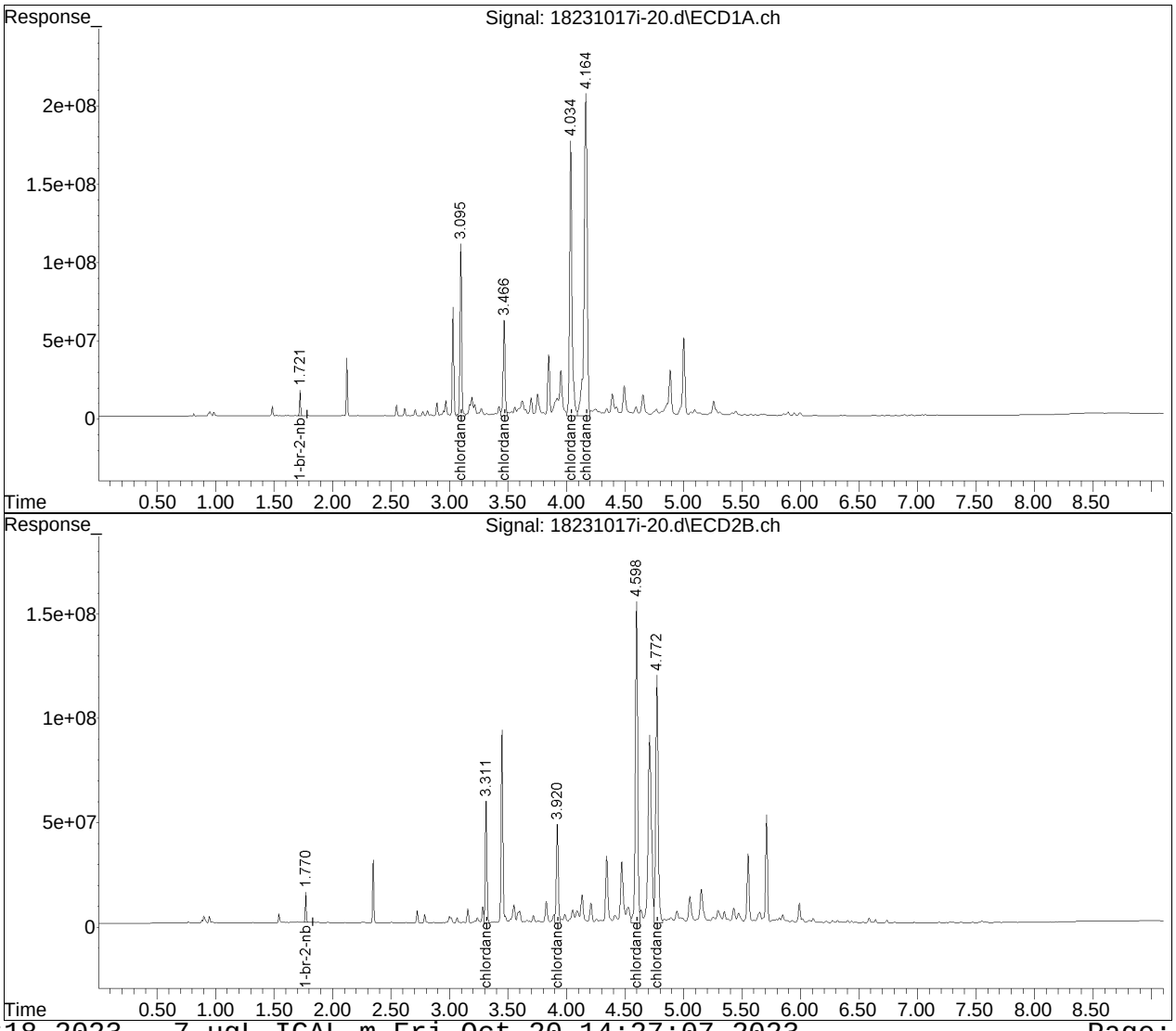
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:28 pm
Operator : PEST18:ejl
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:19:28 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:18:24 2023
Response via : Initial Calibration
Integrator: ChemStation

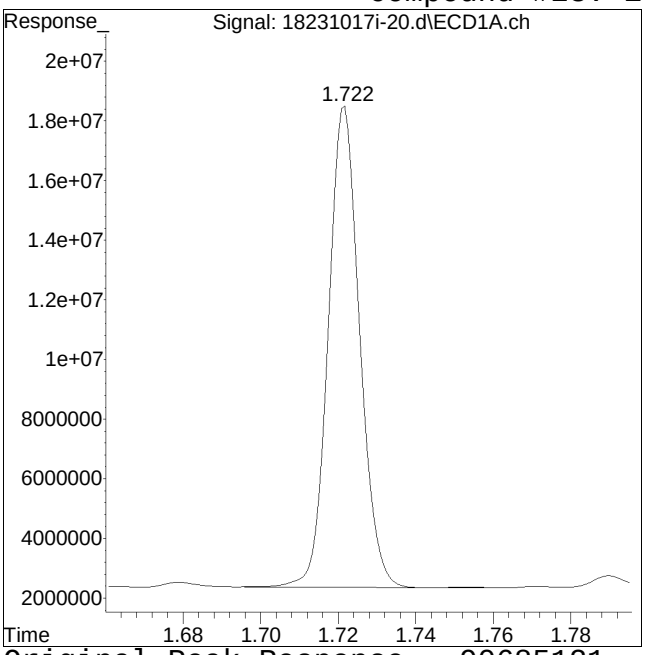
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



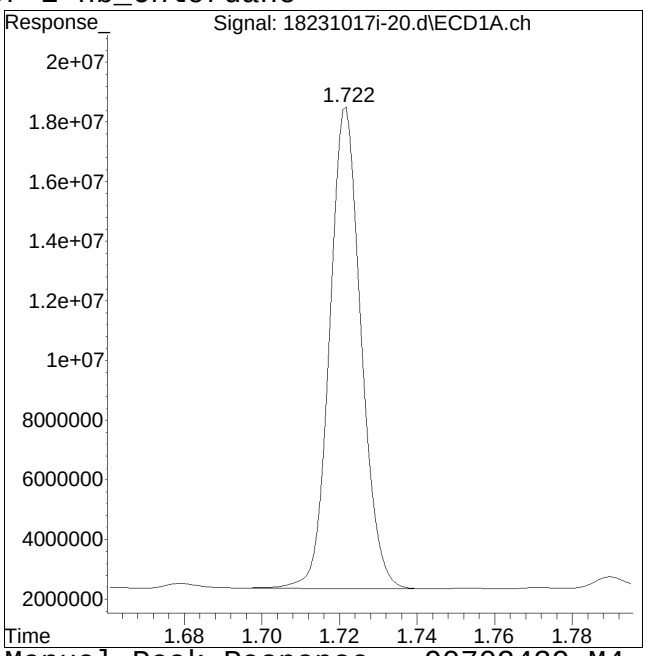
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-20.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:28 pm Instrument : Pest 18
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 10/19/2023 10:18 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 90685121



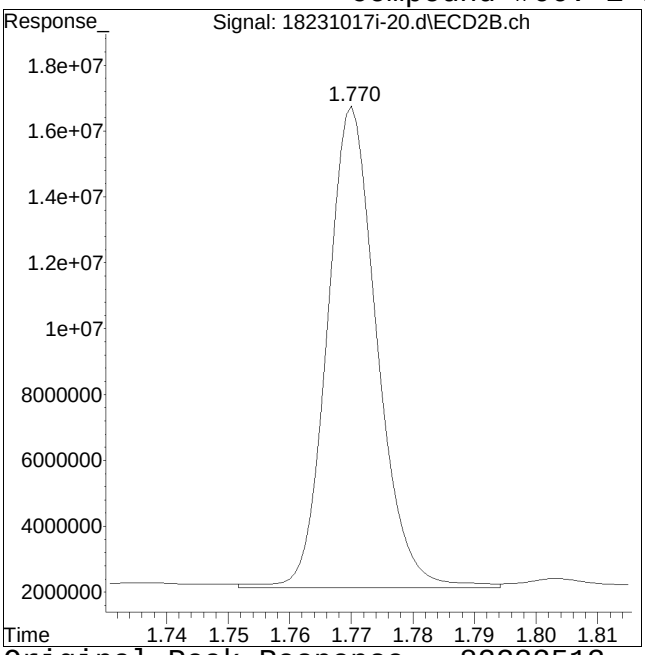
Manual Peak Response = 90702439 M4

M4 = Poor automated baseline construction.

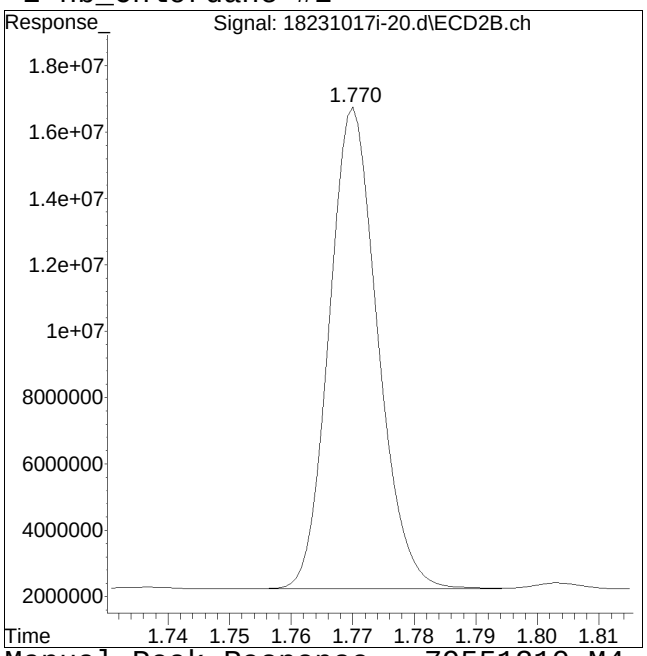
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-20.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:28 pm Instrument : Pest 18
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 10/19/2023 10:18 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 82232513



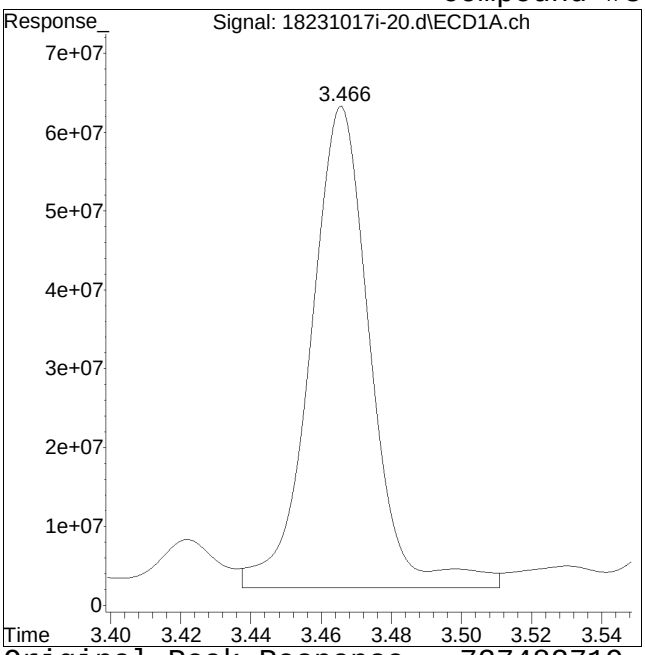
Manual Peak Response = 79551210 M4

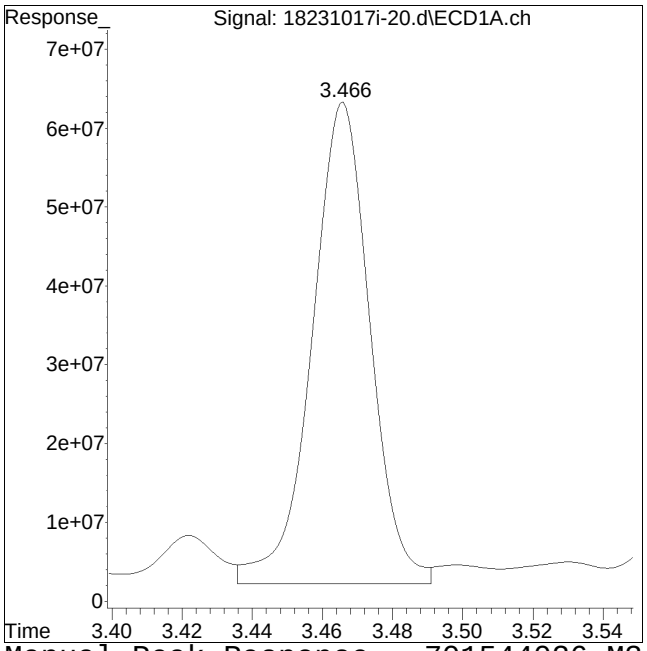
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-20.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:28 pm Instrument : Pest 18
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 10/19/2023 10:18 am

Compound #30: chlordane-3



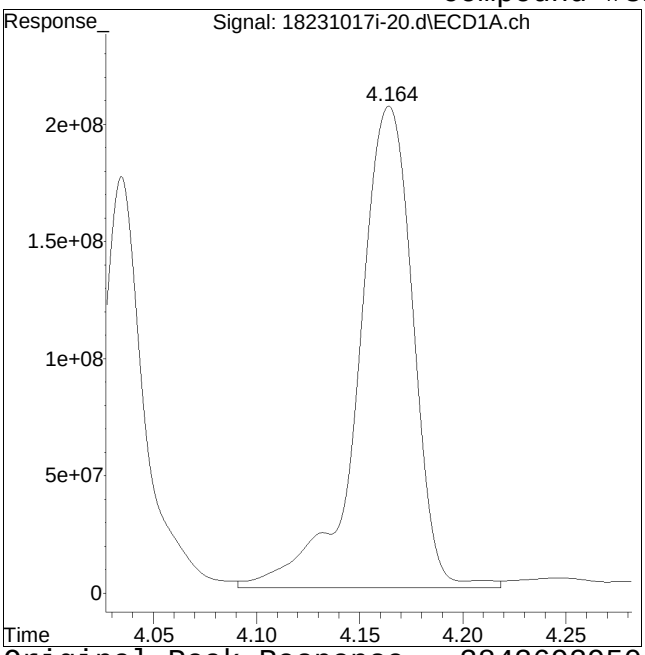


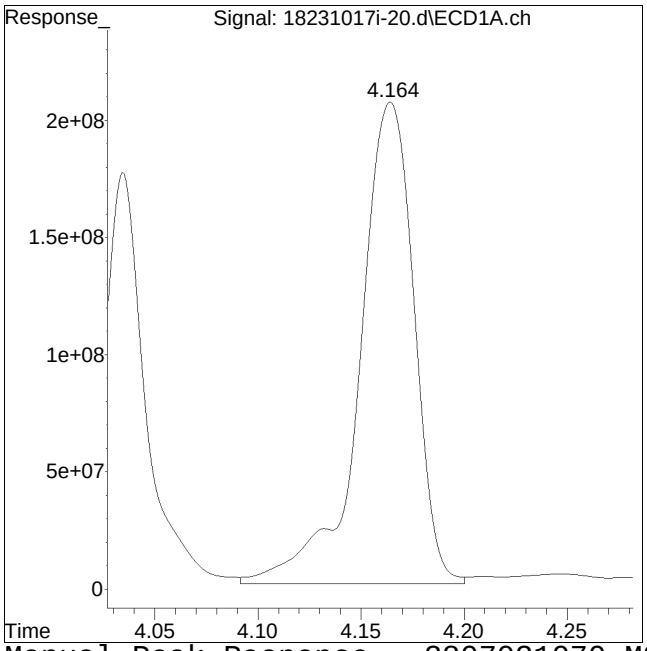
Original Peak Response = 727482719 Manual Peak Response = 701544026 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-20.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:28 pm Instrument : Pest 18
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 10/19/2023 10:18 am

Compound #32: chlordane-5





Original Peak Response = 3843693950 Manual Peak Response = 3807031070 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 17 Oct 2023   3:39 pm
Operator : PEST18:ejl
Sample   : cicvchlor,42e,,pp 11308 L1.0ICV
Misc   : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:27:14 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:25:37 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	96	0.00
29	l1	chlordane-1		*1000.000	780.508	21.9#	76	0.00
30	l1	chlordane-3		*1000.000	980.464	2.0	91	0.00
31	l1	chlordane-4		*1000.000	958.550	4.1	93	0.00
32	l1	chlordane-5		*1000.000	1066.236	-6.6	104	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	95	0.00
29	l1	chlordane-1		*1000.000	902.632	9.7	86	0.00
30	l1	chlordane-3		*1000.000	1001.158	-0.1	92	0.00
31	l1	chlordane-4		*1000.000	944.480	5.6	91	0.00
32	l1	chlordane-5		*1000.000	922.608	7.7	89	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.72#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-2.15#
3		Hexachlorobenzene		1.174	0.000	100.0#	0#	-2.40#
4		alpha-BHC		1.316	0.000	100.0#	0#	-2.51#
5		gamma-BHC (lindane)		1.215	0.000	100.0#	0#	-2.73#
6		beta-BHC	*	0.602	0.000	100.0#	0#	-2.80#
7		delta-BHC		1.244	0.000	100.0#	0#	-2.93#
8		Heptachlor		1.195	0.000	100.0#	0#	-3.10#
9		Aldrin		1.142	0.000	100.0#	0#	-3.35#
10		Alachlor		0.203	0.000	100.0#	0#	-3.48#
11		Chlorpyrifos		0.610	0.000	100.0#	0#	-3.58#
12		Heptachlor Epoxide		1.116	0.000	100.0#	0#	-3.91#
13		gamma-Chlordane (trans)		1.128	0.000	100.0#	0#	-4.03#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 17 Oct 2023   3:39 pm
Operator : PEST18:ejl
Sample   : cicvchlor,42e,,pp 11308 L1.0ICV
Misc   : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:27:14 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:25:37 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.194	0.000	100.0#	0#	-4.17#
15		4,4'-DDE		1.124	0.000	100.0#	0#	-4.28#
16		Endosulfan I		1.059	0.000	100.0#	0#	-4.30#
17		Dieldrin	*	50.000	0.000	100.0#	0	-4.57#
18		Endrin		1.154	0.000	100.0#	0#	-4.83#
19		4,4'-DDD		0.903	0.000	100.0#	0#	-4.95#
20		Endosulfan II		1.017	0.000	100.0#	0#	-5.08#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.25#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.51#
23		Methoxychlor		0.412	0.000	100.0#	0#	-5.76#
24		Mirex		0.948	0.000	100.0#	0#	-5.80#
25		Endosulfan Sulfate		0.950	0.000	100.0#	0#	-5.91#
26		Endrin Ketone		0.935	0.000	100.0#	0#	-6.14#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.95#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.73#
34	l2	toxaphene-1	*	0.034	0.000	100.0#	0#	-5.07#
35	l2	toxaphene-2	*	0.037	0.000	100.0#	0#	-5.20#
36	l2	toxaphene-3	*	0.040	0.000	100.0#	0#	-5.43#
37	l2	toxaphene-4	*	0.034	0.000	100.0#	0#	-5.81#

Signal #2

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.77#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.057	0.000	100.0#	0#	-2.32#
3		Hexachlorobenzene		1.244	0.000	100.0#	0#	-2.66#
4		alpha-BHC		1.350	0.000	100.0#	0#	-2.76#
5		gamma-BHC (lindane)		1.263	0.000	100.0#	0#	-3.05#
6		beta-BHC	*	0.615	0.000	100.0#	0#	-3.13#
7		delta-BHC		1.271	0.000	100.0#	0#	-3.40#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 17 Oct 2023   3:39 pm
Operator : PEST18:ejl
Sample   : cicvchlor,42e,,pp 11308 L1.0ICV
Misc   : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 21   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:27:14 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:25:37 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.245	0.000	100.0#	0#	-3.45#
9		Aldrin		1.183	0.000	100.0#	0#	-3.76#
10		Alachlor		0.184	0.000	100.0#	0#	-3.66#
11		Chlorpyrifos		0.647	0.000	100.0#	0#	-4.02#
12		Heptachlor Epoxide		1.169	0.000	100.0#	0#	-4.38#
13		gamma-Chlordane (trans)		1.066	0.000	100.0#	0#	-4.60#
14		alpha-Chlordane (cis)		1.208	0.000	100.0#	0#	-4.77#
15		4,4'-DDE		1.171	0.000	100.0#	0#	-4.99#
16		Endosulfan I		1.099	0.000	100.0#	0#	-4.83#
17		Dieldrin		1.119	0.000	100.0#	0#	-5.15#
18		Endrin		1.129	0.000	100.0#	0#	-5.46#
19		4,4'-DDD		0.941	0.000	100.0#	0#	-5.60#
20		Endosulfan II		1.038	0.000	100.0#	0#	-5.67#
21		4,4'-DDT		0.822	0.000	100.0#	0#	-5.89#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.98#
23		Methoxychlor		0.462	0.000	100.0#	0#	-6.47#
24		Mirex	*	50.000	0.000	100.0#	0	-6.60#
25		Endosulfan Sulfate		0.991	0.000	100.0#	0#	-6.22#
26		Endrin Ketone		0.975	0.000	100.0#	0#	-6.64#
27	s	Decachlorobiphenyl		0.992	0.000	100.0#	0#	-7.53#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.77#
34	l2	toxaphene-1	*	0.029	0.000	100.0#	0#	-5.66#
35	l2	toxaphene-2	*	0.049	0.000	100.0#	0#	-5.75#
36	l2	toxaphene-3	*	0.039	0.000	100.0#	0#	-5.99#
37	l2	toxaphene-4	*	0.029	0.000	100.0#	0#	-6.41#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:39 pm
Operator : PEST18:ejl
Sample : cicvchlor,42e,,pp 11308 L1.0ICV
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:27:14 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:25:37 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.721	1.770	84038066	72767265	25.000M4	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:39 pm
Operator : PEST18:ejl
Sample : cicvchlor,42e,,pp 11308 L1.0ICV
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:27:14 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:25:37 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.096	3.312	154.8E6	95129986	780.508	902.632
30)	l1	chlordane-3	3.466	3.921	132.4E6	105.3E6	980.464M3	1001.158
31)	l1	chlordane-4	4.035	4.598	446.4E6	366.6E6	958.550	944.480
32)	l1	chlordane-5	4.162	4.772	762.3E6	288.6E6	1066.236	922.608
	Sum	chlordane-1			1496.0E6	855.7E6	NoCal	NoCal D
Average		chlordane-1					946.439	942.720
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

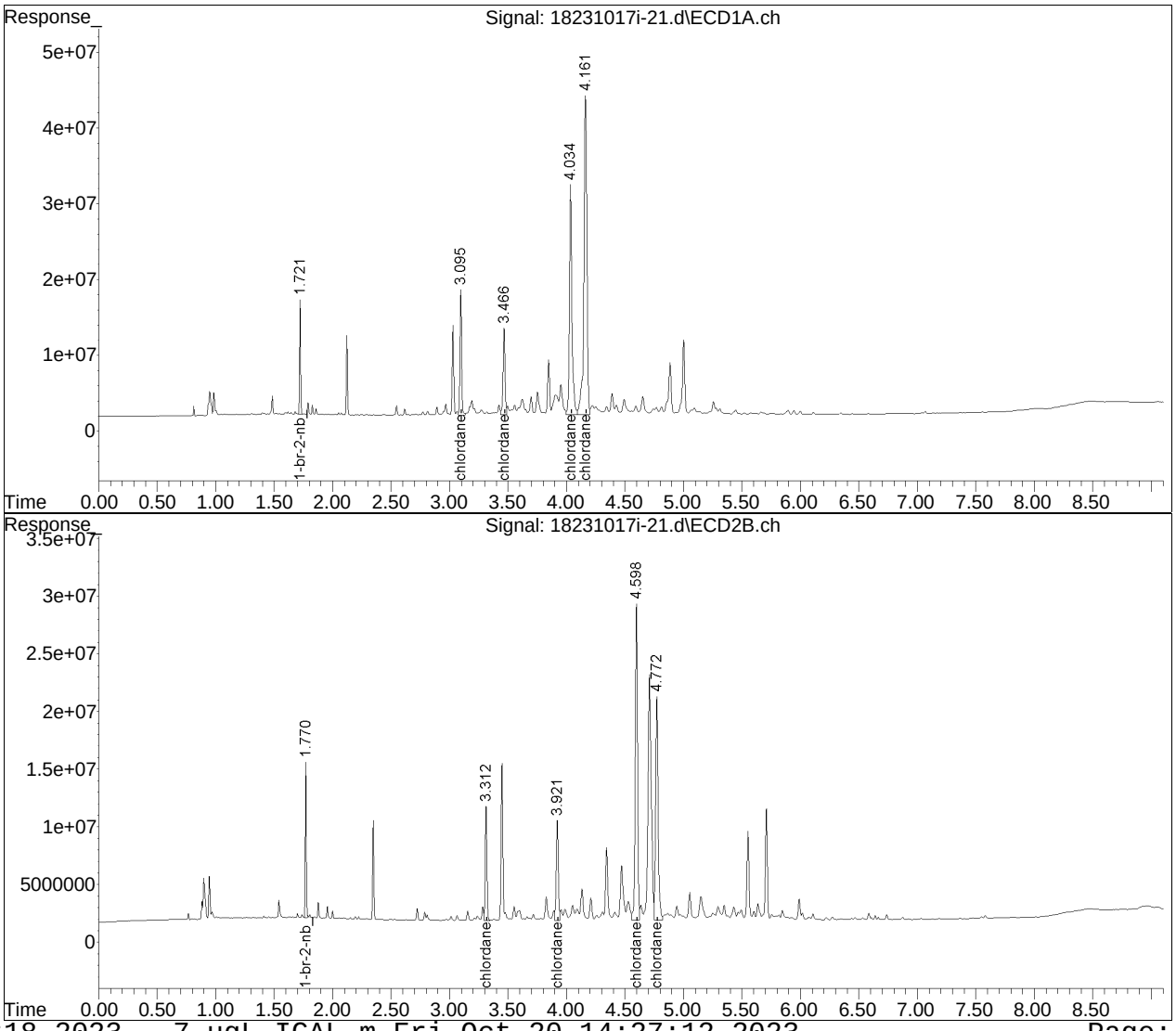
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:39 pm
Operator : PEST18:ejl
Sample : cicvchlor,42e,,pp 11308 L1.0ICV
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:27:14 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:25:37 2023
Response via : Initial Calibration
Integrator: ChemStation

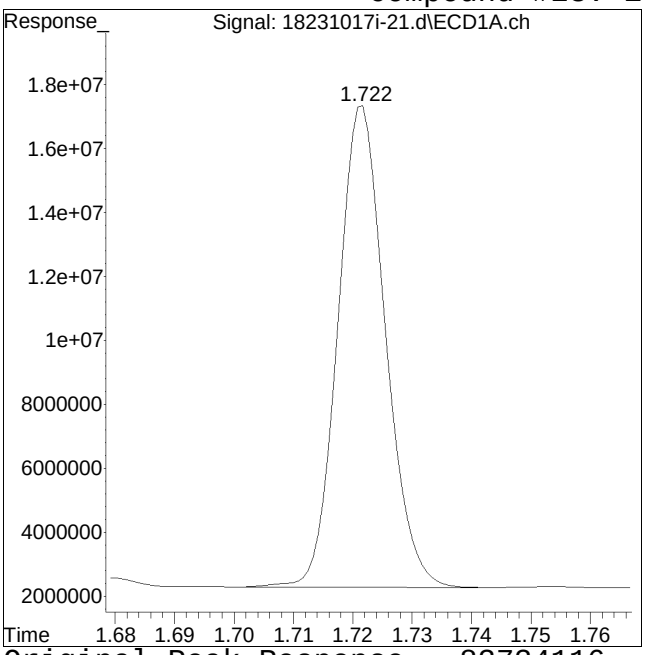
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

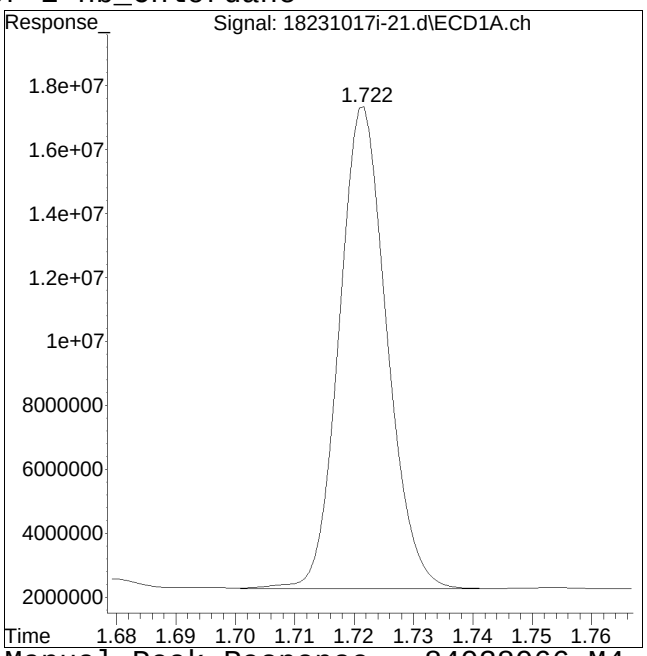


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-21.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:39 pm Instrument : Pest 18
Sample : cicvchlor,42e,,pp 11308 L1Quant Date : 10/19/2023 10:25 am

Compound #28: 1-br-2-nb_Chlordane



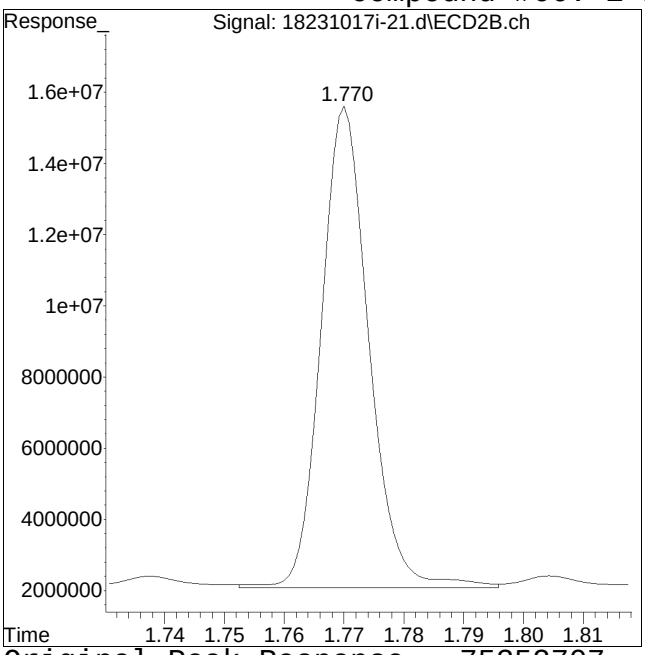


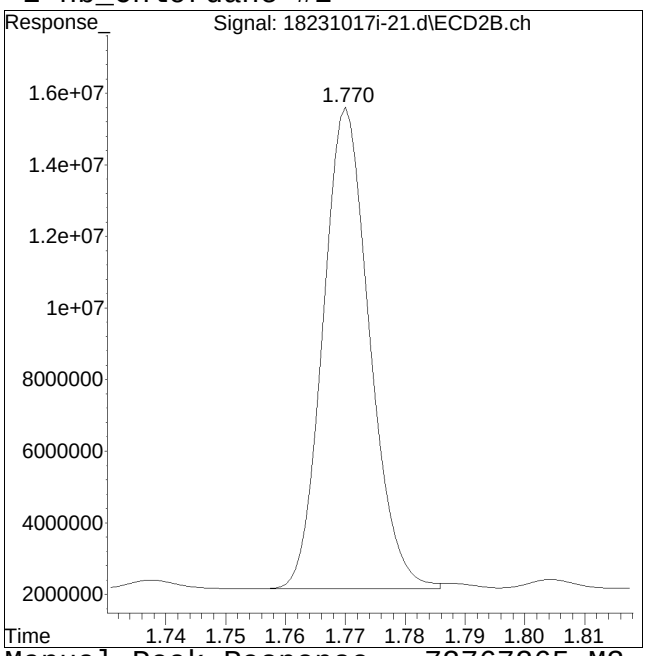
Original Peak Response = 83734116 Manual Peak Response = 84038066 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-21.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:39 pm Instrument : Pest 18
Sample : cicvchlor,42e,,pp 11308 L1Quant Date : 10/19/2023 10:25 am

Compound #66: 1-br-2-nb_Chlordane #2



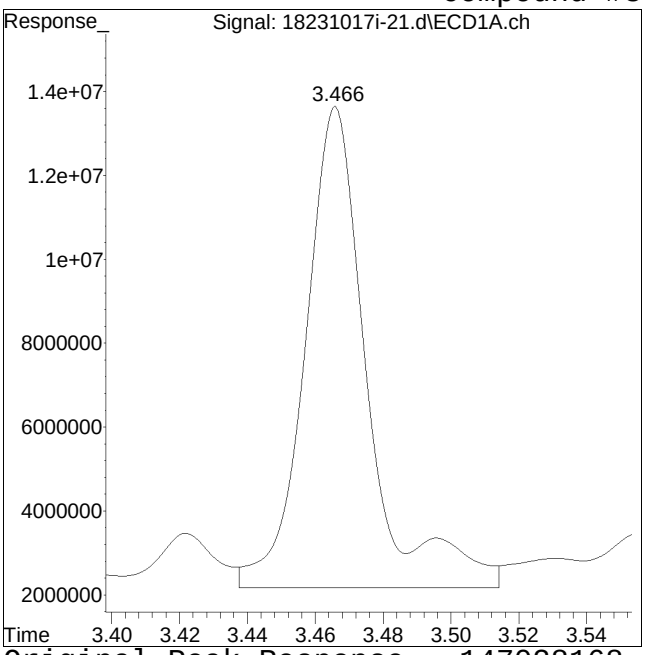


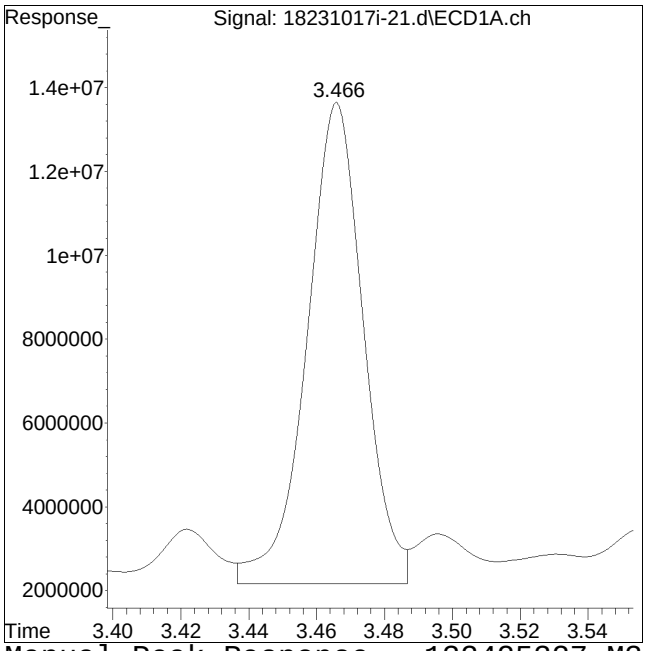
Original Peak Response = 75352707 Manual Peak Response = 72767265 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-21.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:39 pm Instrument : Pest 18
Sample : cicvchlor,42e,,pp 11308 L1Quant Date : 10/19/2023 10:25 am

Compound #30: chlordane-3





Original Peak Response = 147028168 Manual Peak Response = 132425327 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:51 pm
Operator : PEST18:ejl
Sample : il3tox,42e,,pp 11328 L0.02
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:34:47 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:32:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.721	1.769	83211381	73238811	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6)	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8)	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9)	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11)	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12)	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D.	N.D.
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
16)	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D.	N.D.
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:51 pm
Operator : PEST18:ejl
Sample : il3tox,42e,,pp 11328 L0.02
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:34:47 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:32:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
26)	Endrin Keton	0.000	0.000	0	0	N.D.	N.D.
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.064	5.654	1938496	1688181	16.110M4	19.361M4
35) l2	toxaphene-2	5.192	5.749	2235850	3140470	17.036M4	23.231
36) l2	toxaphene-3	5.427	5.986	2789196	2931891	21.693M4	29.936M4
37) l2	toxaphene-4	5.810	6.406	2430496	1769699	22.657M4	21.699M4
Sum	toxaphene-1			9394039	9530241	77.496	94.227
Average	toxaphene-1					19.374	23.557

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			9394039	9530241	77.496	94.227
Average	toxaphene-1					19.374	23.557

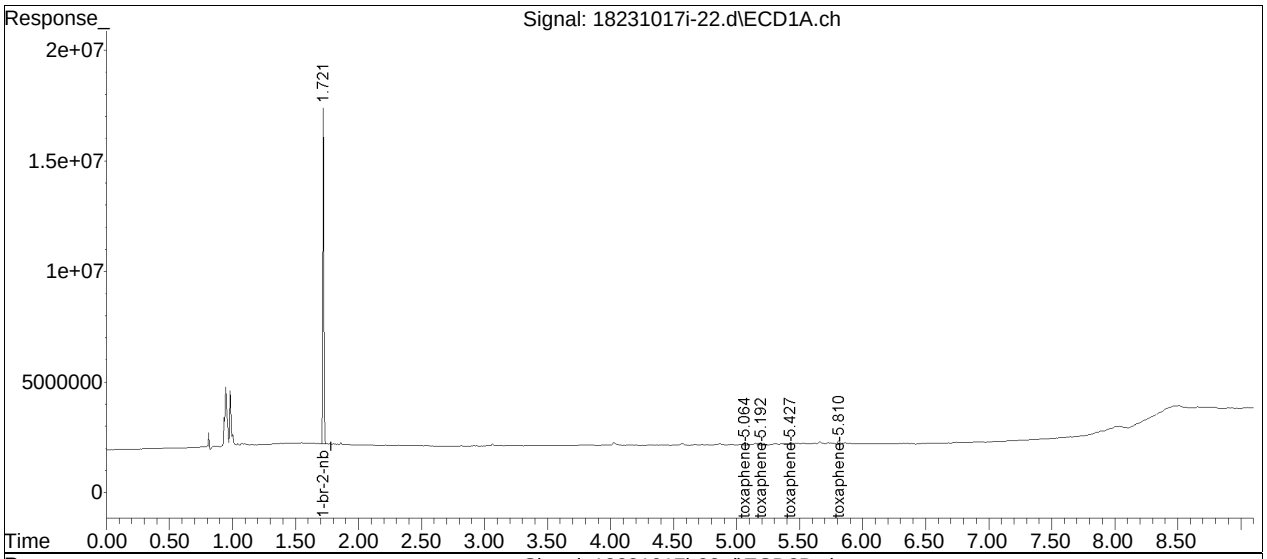
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

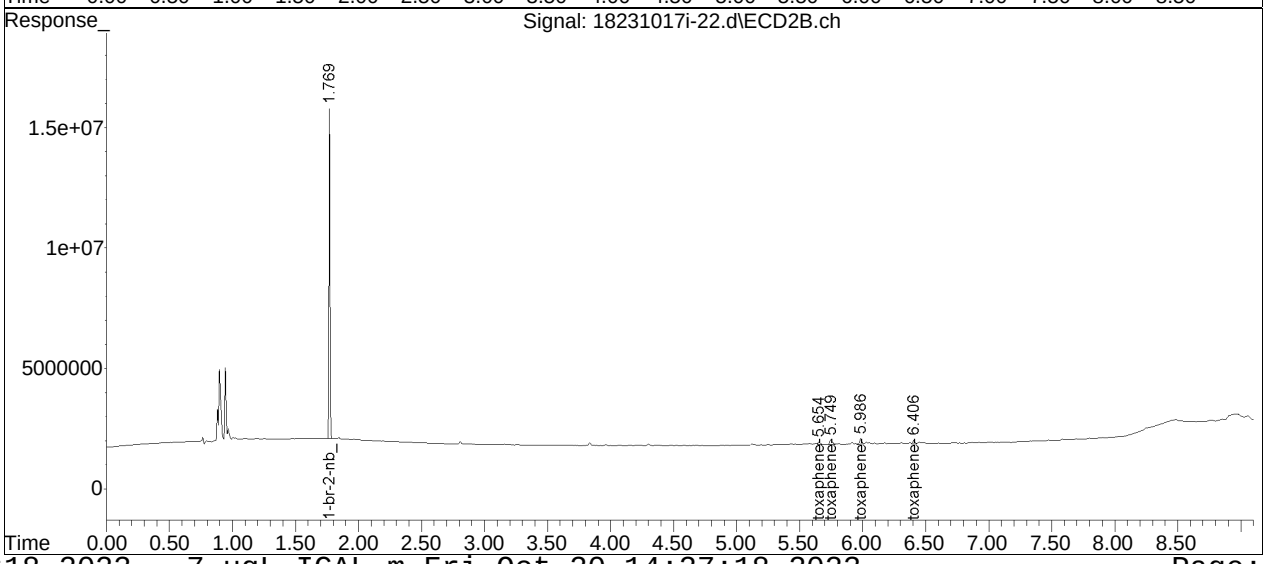
Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 3:51 pm
Operator : PEST18:ejl
Sample : il3tox,42e,,pp 11328 L0.02
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:34:47 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:32:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

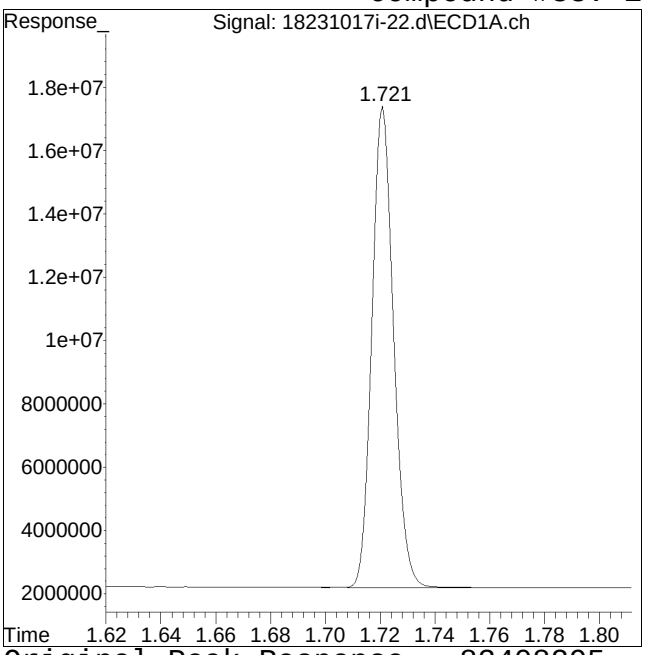




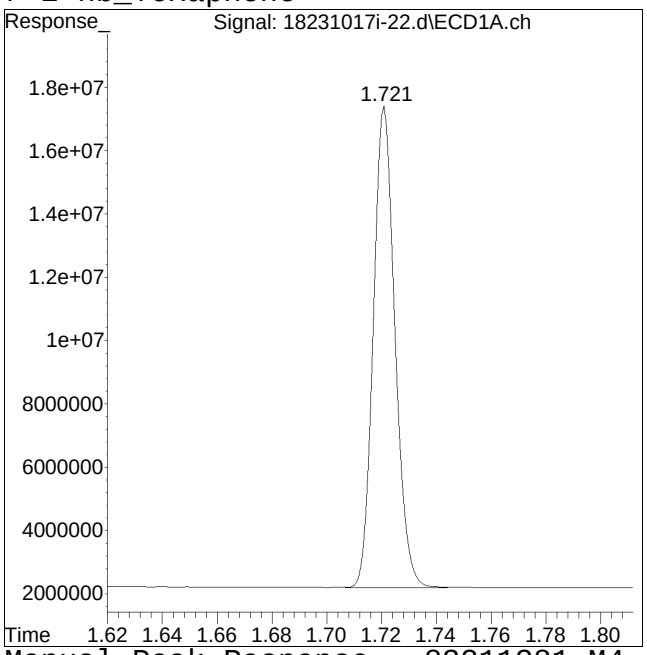
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-22.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:51 pm Instrument : Pest 18
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 10/19/2023 10:32 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 83408295



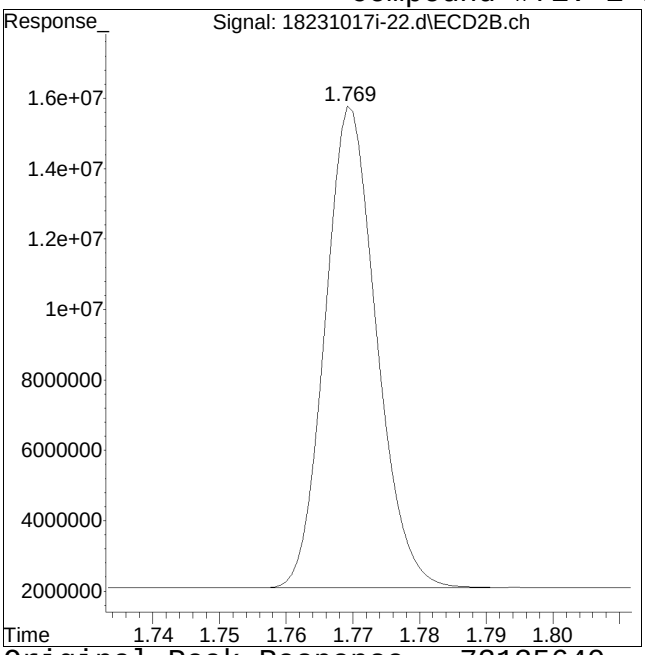
Manual Peak Response = 83211381 M4

M4 = Poor automated baseline construction.

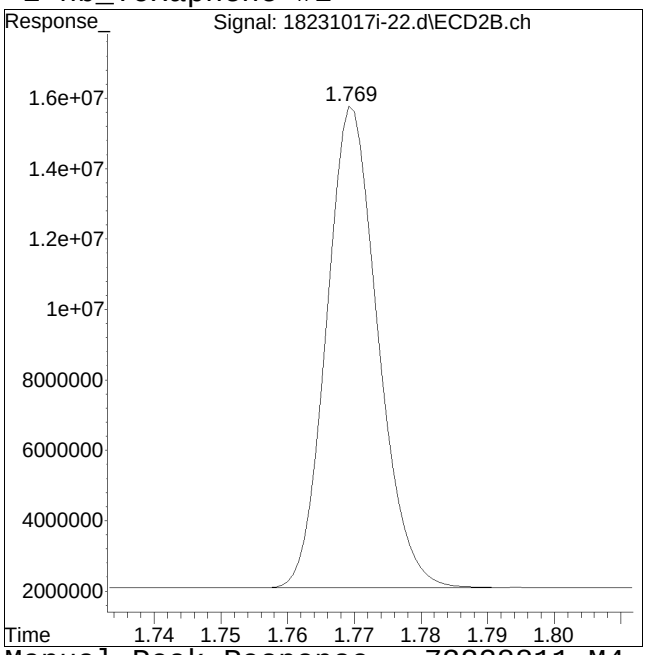
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-22.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:51 pm Instrument : Pest 18
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 10/19/2023 10:32 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 73135640



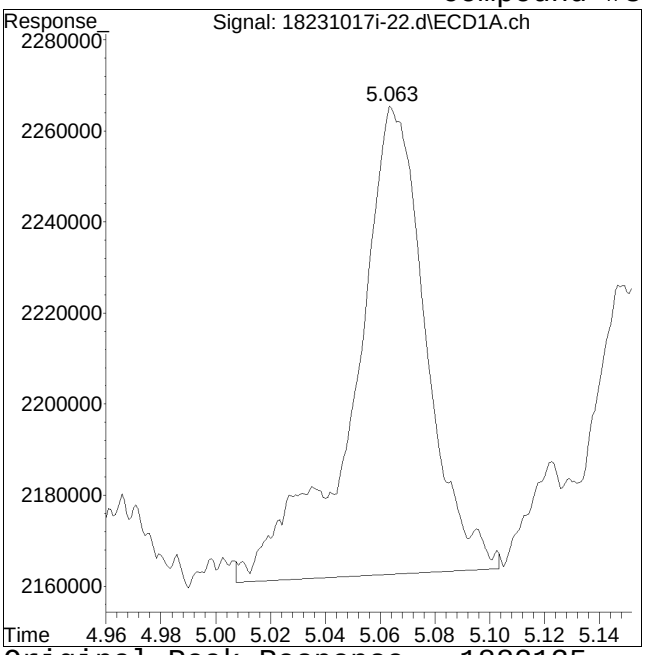
Manual Peak Response = 73238811 M4

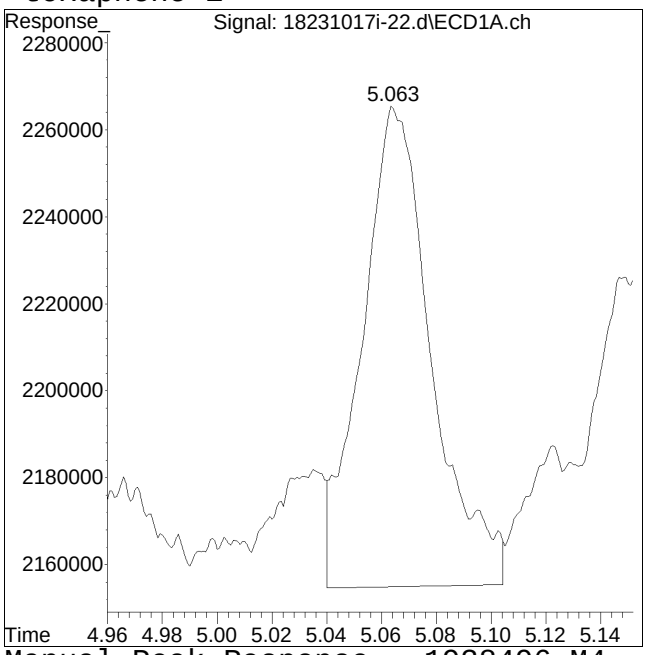
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-22.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:51 pm Instrument : Pest 18
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 10/19/2023 10:32 am

Compound #34: toxaphene-1



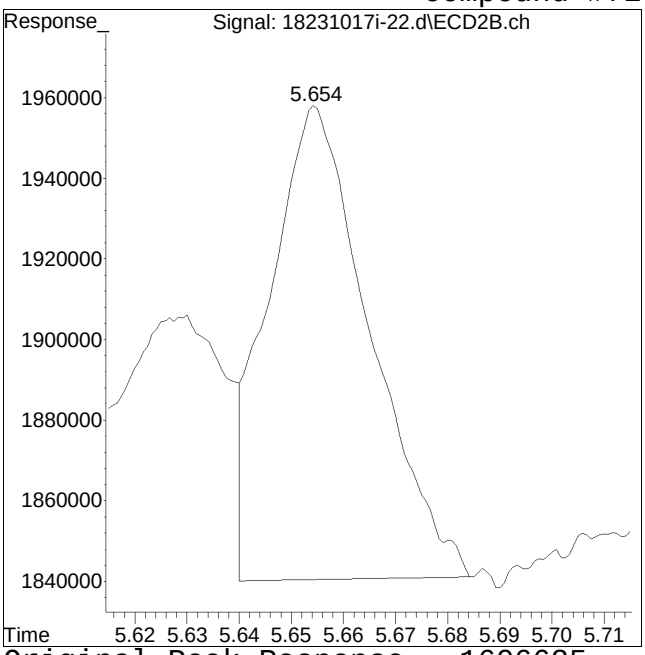


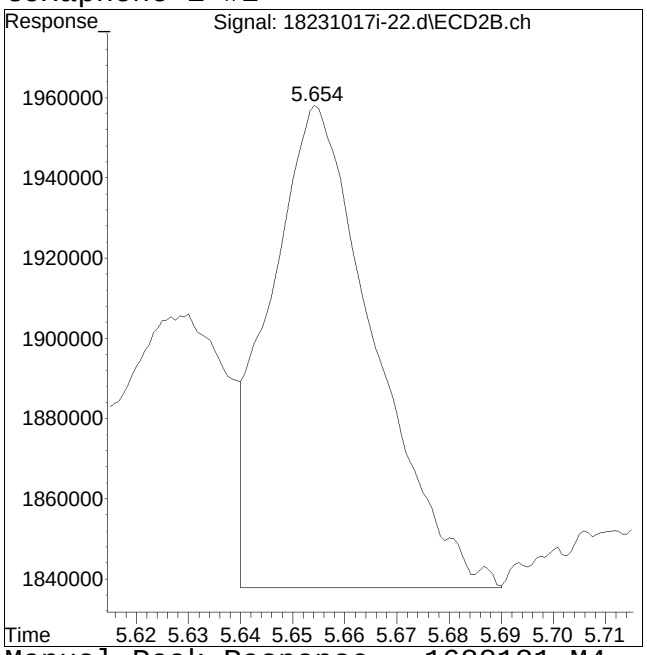
Original Peak Response = 1882135 Manual Peak Response = 1938496 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-22.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:51 pm Instrument : Pest 18
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 10/19/2023 10:32 am

Compound #72: toxaphene-1 #2



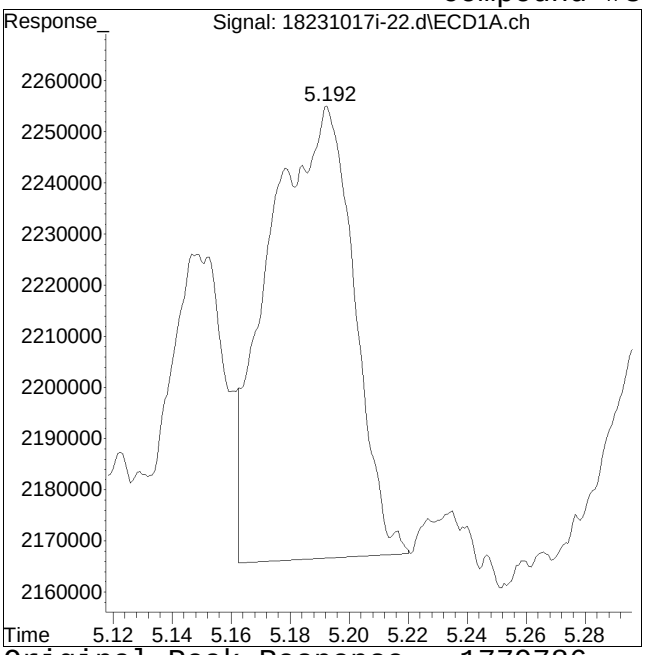


Original Peak Response = 1606625 Manual Peak Response = 1688181 M4
M4 = Poor automated baseline construction.

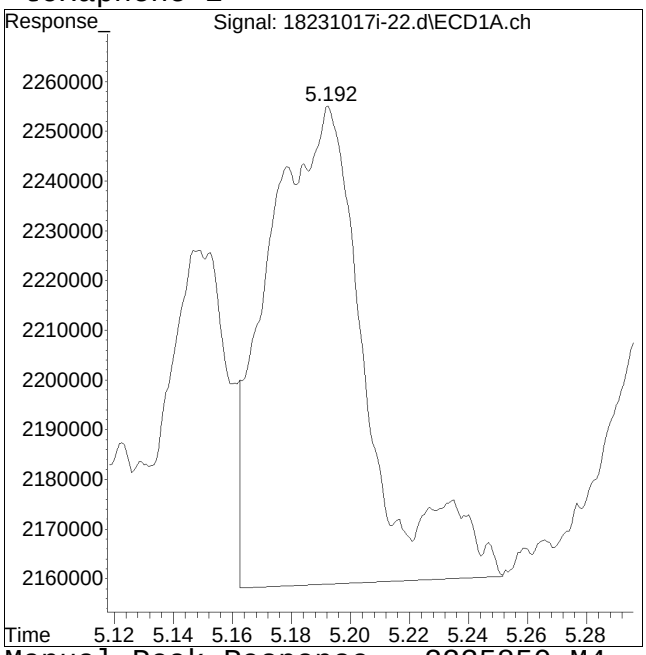
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-22.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:51 pm Instrument : Pest 18
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 10/19/2023 10:32 am

Compound #35: toxaphene-2



Original Peak Response = 1779786



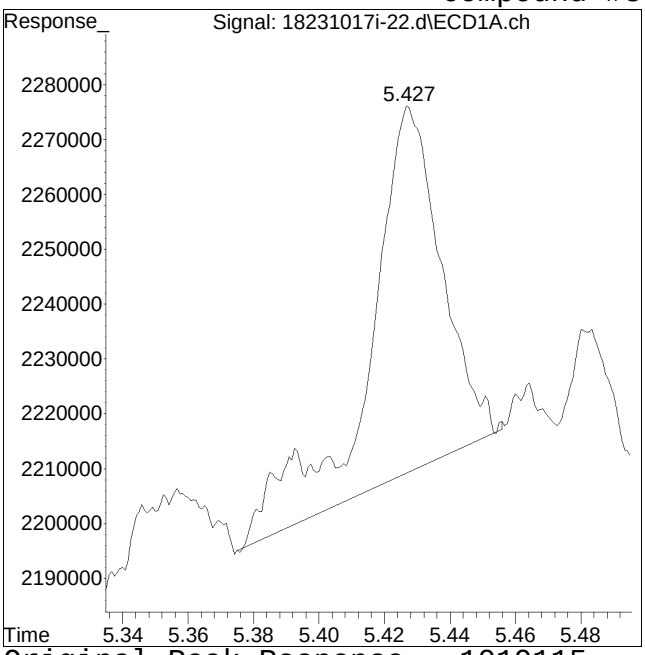
Manual Peak Response = 2235850 M4

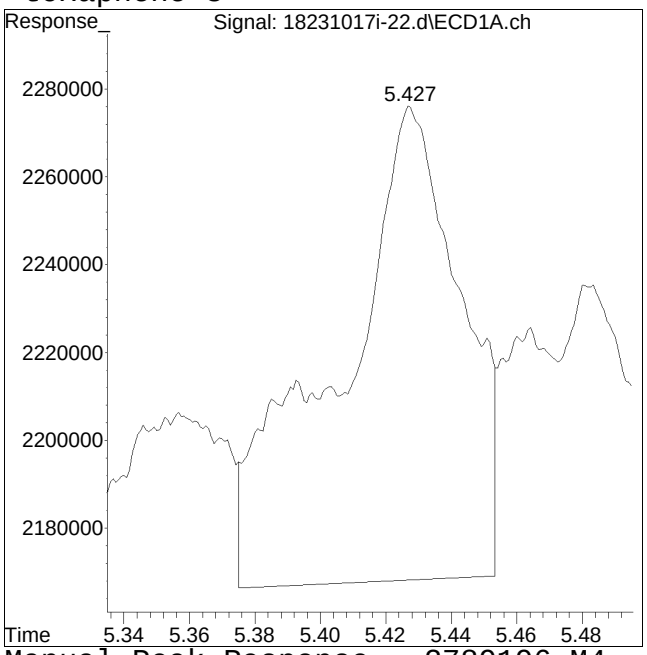
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-22.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:51 pm Instrument : Pest 18
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 10/19/2023 10:32 am

Compound #36: toxaphene-3



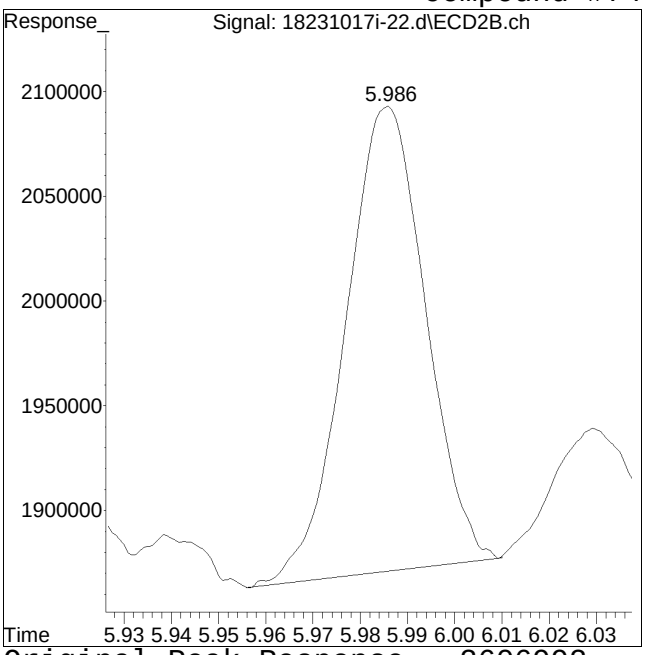


Original Peak Response = 1019115 Manual Peak Response = 2789196 M4
M4 = Poor automated baseline construction.

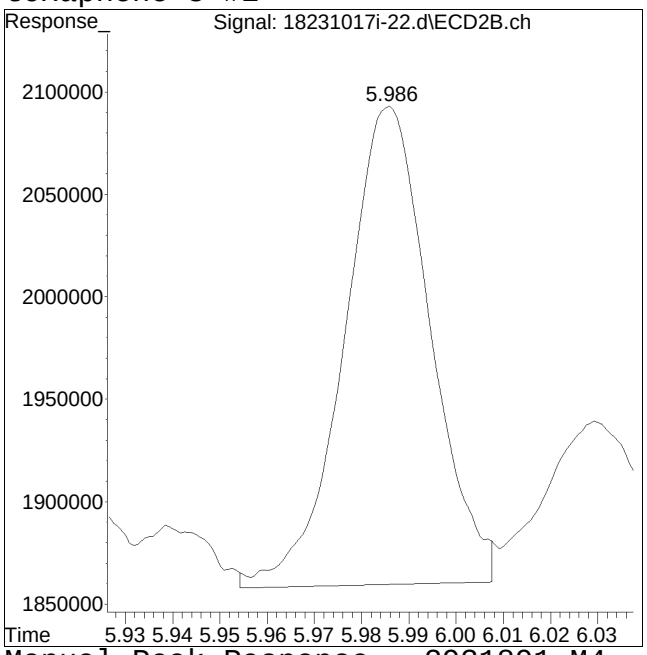
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-22.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:51 pm Instrument : Pest 18
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 10/19/2023 10:32 am

Compound #74: toxaphene-3 #2



Original Peak Response = 2606992



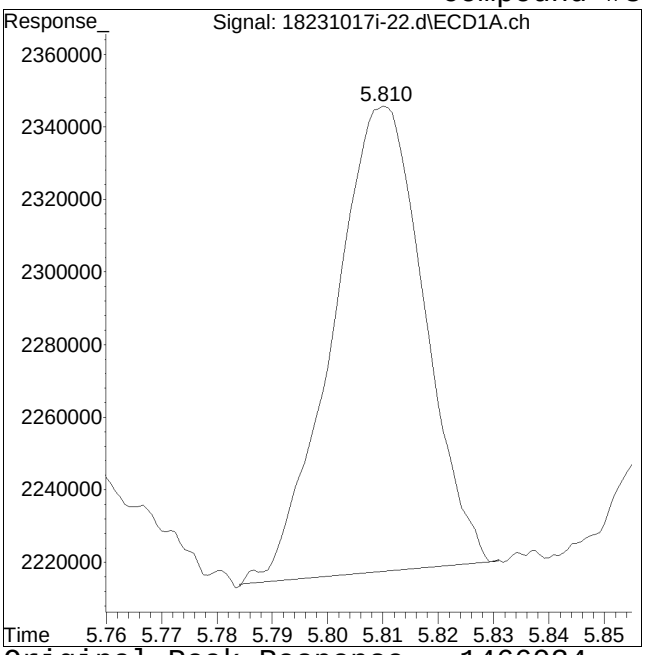
Manual Peak Response = 2931891 M4

M4 = Poor automated baseline construction.

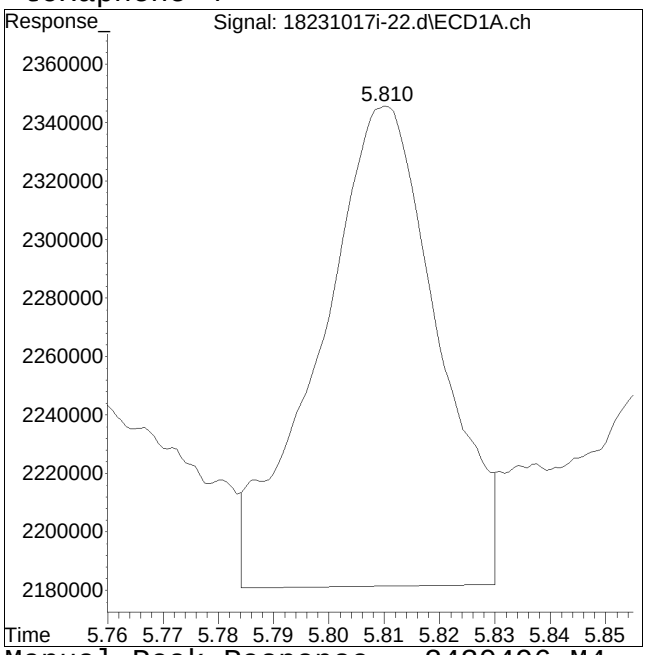
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-22.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:51 pm Instrument : Pest 18
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 10/19/2023 10:32 am

Compound #37: toxaphene-4



Original Peak Response = 1466034



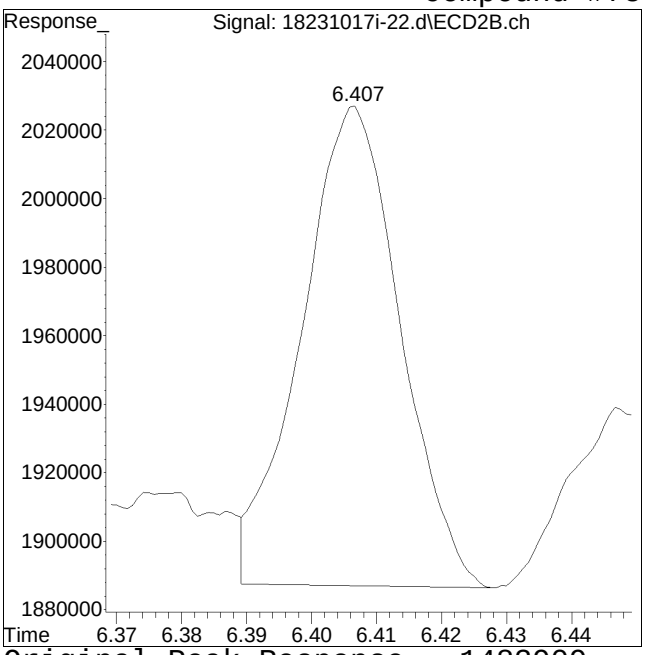
Manual Peak Response = 2430496 M4

M4 = Poor automated baseline construction.

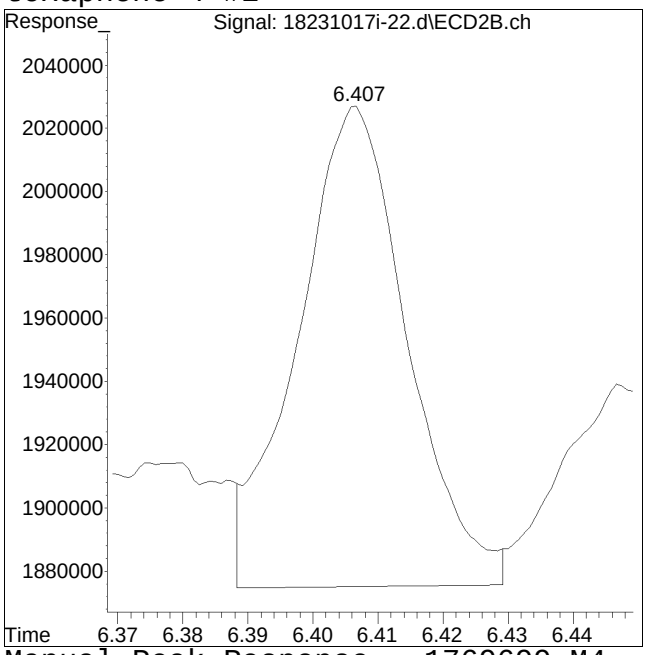
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-22.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 3:51 pm Instrument : Pest 18
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 10/19/2023 10:32 am

Compound #75: toxaphene-4 #2



Original Peak Response = 1483909



Manual Peak Response = 1769699 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 4:02 pm
Operator : PEST18:ejl
Sample : il8tox,42e,,pp 11327 L2.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:30:43 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:25:37 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.721	1.770	86097330	74302170	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 4:02 pm
Operator : PEST18:ejl
Sample : il8tox,42e,,pp 11327 L2.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:30:43 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:25:37 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.066	5.655	260.4E6	181.7E6	NoCal M3	NoCal
35) l2	toxaphene-2	5.193	5.748	279.3E6	280.8E6	NoCal M3	NoCal
36) l2	toxaphene-3	5.427	5.987	273.1E6	203.4E6	NoCal M3	NoCal
37) l2	toxaphene-4	5.809	6.407	226.3E6	167.2E6	NoCal	NoCal
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

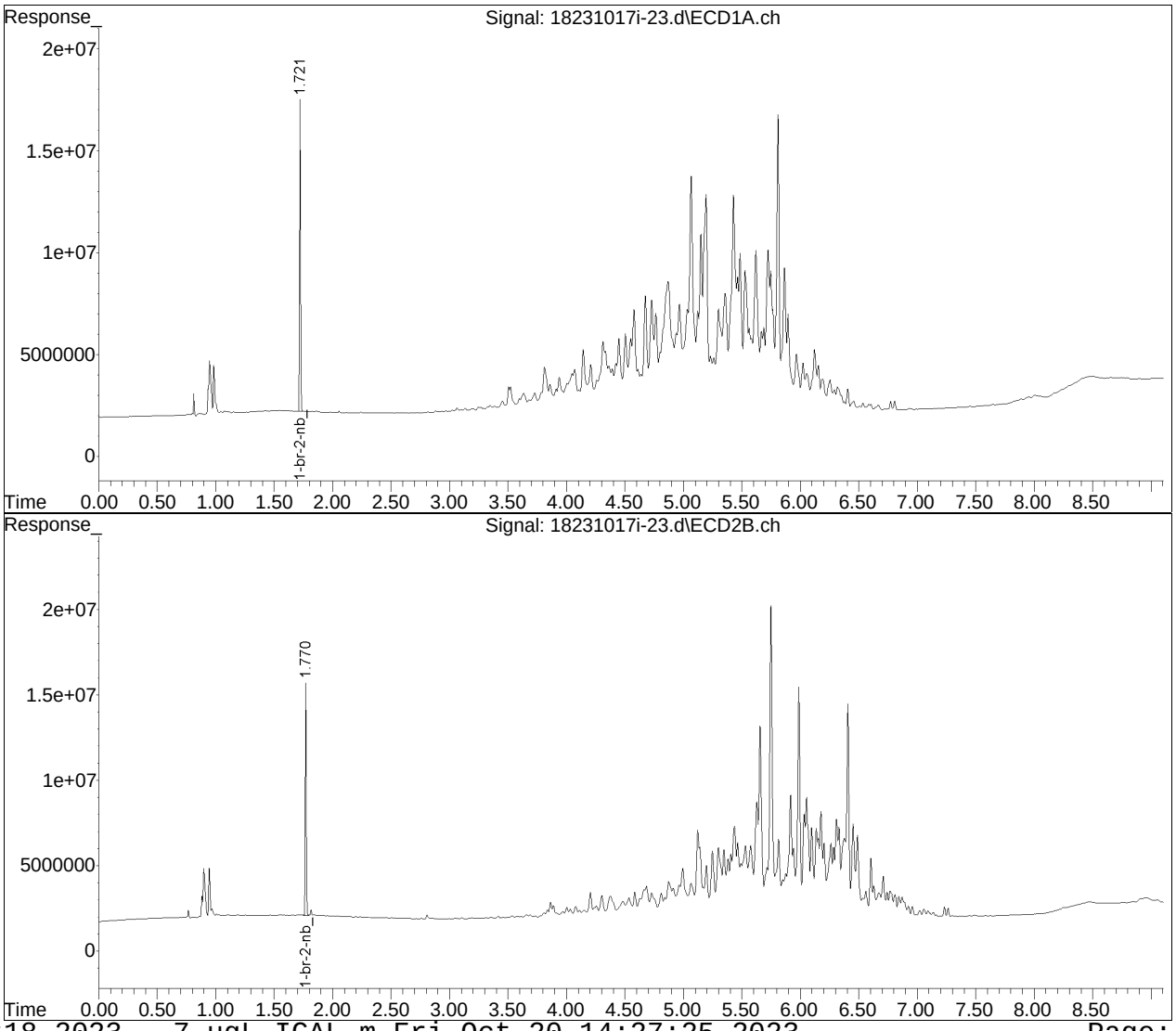
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 4:02 pm
Operator : PEST18:ejl
Sample : il8tox,42e,,pp 11327 L2.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:30:43 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:25:37 2023
Response via : Initial Calibration
Integrator: ChemStation

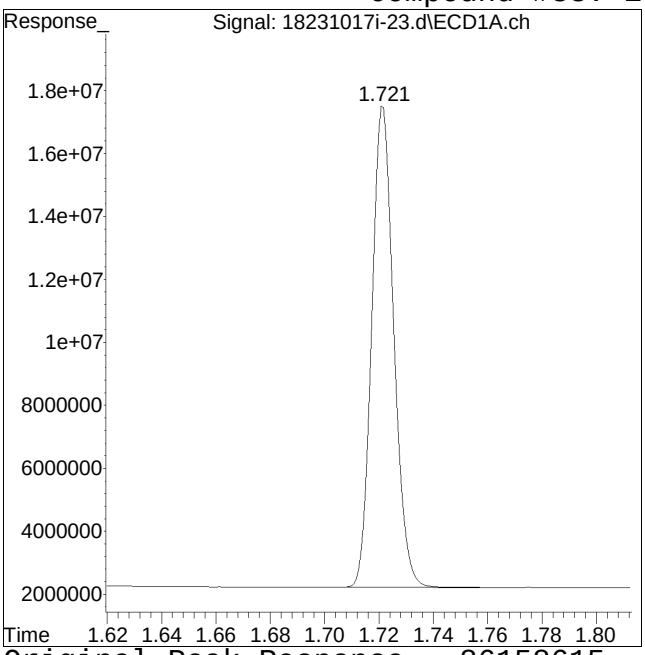
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



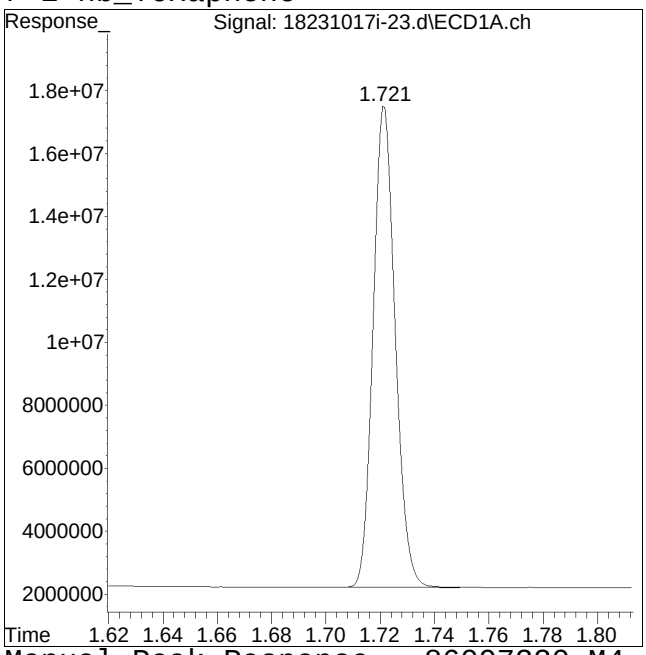
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-23.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 4:02 pm Instrument : Pest 18
Sample : il8tox,42e,,pp 11327 L2.0 Quant Date : 10/19/2023 10:28 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 86158615



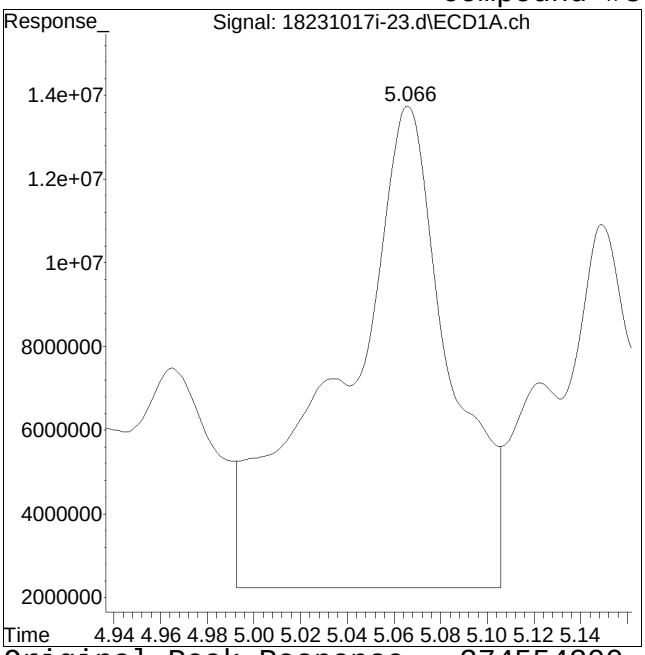
Manual Peak Response = 86097330 M4

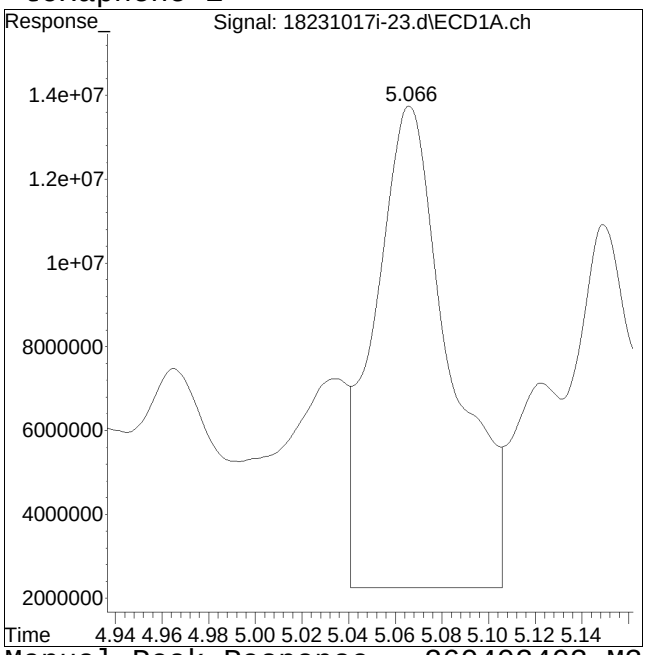
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-23.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 4:02 pm Instrument : Pest 18
Sample : il8tox,42e,,pp 11327 L2.0 Quant Date : 10/19/2023 10:28 am

Compound #34: toxaphene-1



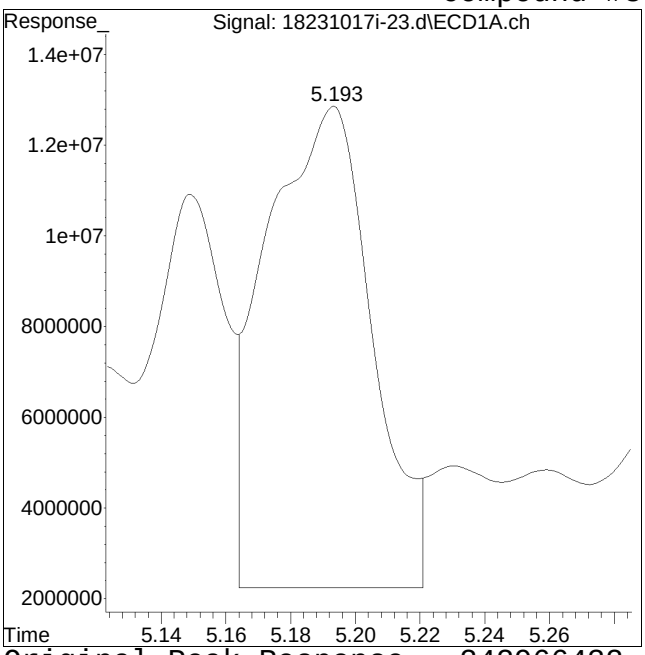


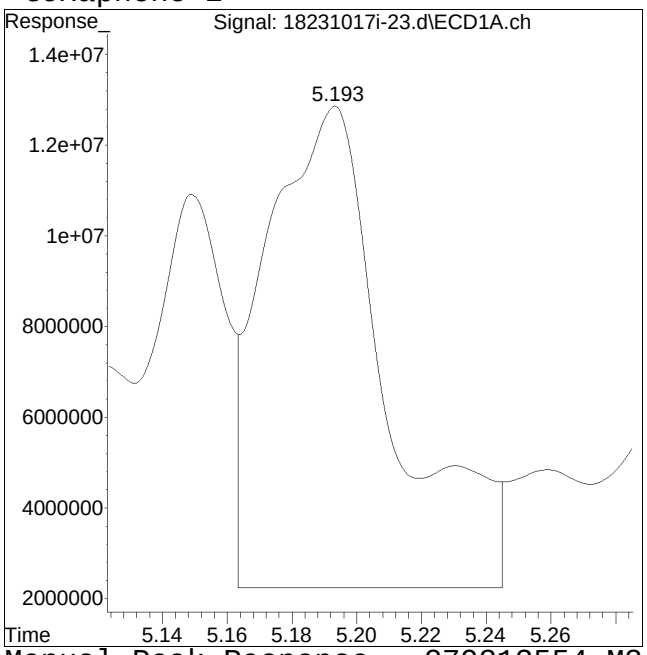
Original Peak Response = 374554300 Manual Peak Response = 260402403 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-23.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 4:02 pm Instrument : Pest 18
Sample : il8tox,42e,,pp 11327 L2.0 Quant Date : 10/19/2023 10:28 am

Compound #35: toxaphene-2



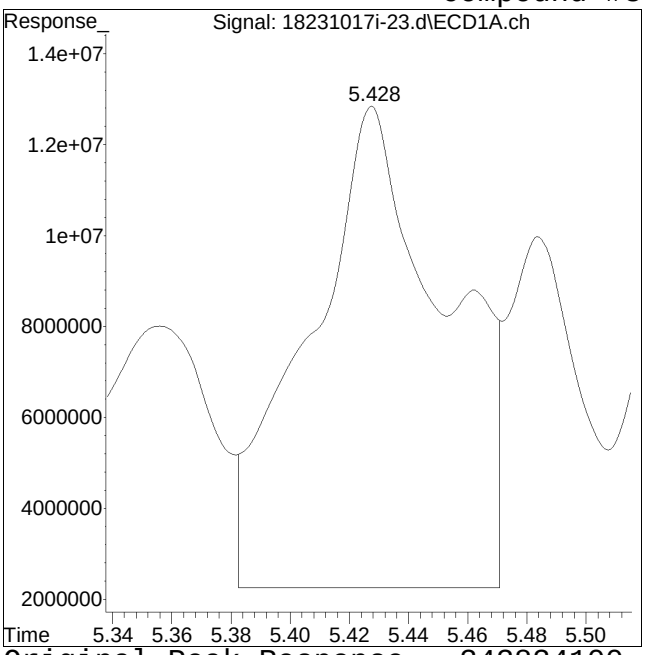


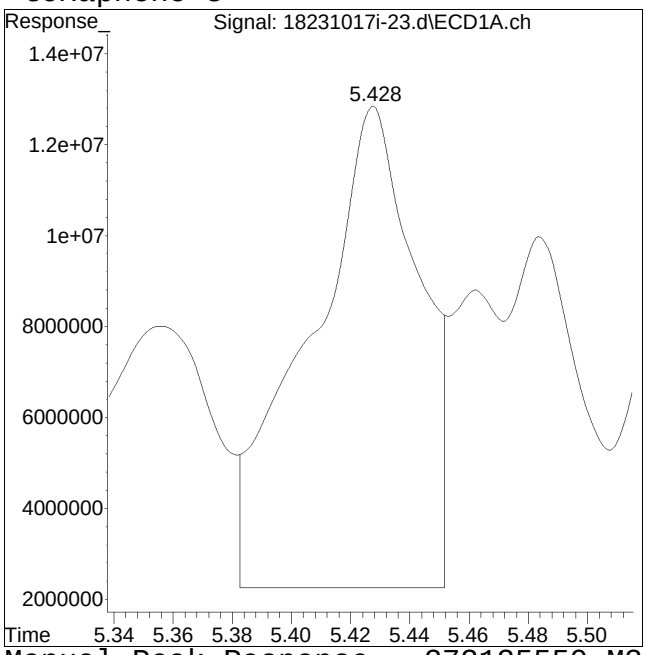
Original Peak Response = 242966432 Manual Peak Response = 279313554 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-23.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 4:02 pm Instrument : Pest 18
Sample : il8tox,42e,,pp 11327 L2.0 Quant Date : 10/19/2023 10:28 am

Compound #36: toxaphene-3





Original Peak Response = 343834100 Manual Peak Response = 273135550 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 4:14 pm
Operator : PEST18:ejl
Sample : il9tox,42e,,pp 11326 L5.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:31:58 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:30:57 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.723	1.771	94592328	79748841	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 4:14 pm
Operator : PEST18:ejl
Sample : il9tox,42e,,pp 11326 L5.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:31:58 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:30:57 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.066	5.655	652.6E6	462.0E6	4562.423M3	4738.916
35) l2	toxaphene-2	5.193	5.748	724.7E6	718.5E6	4723.438	4767.168
36) l2	toxaphene-3	5.428	5.987	711.4E6	520.8E6	4741.528	4771.867
37) l2	toxaphene-4	5.809	6.406	597.9E6	439.5E6	4809.957	4898.852
Sum	toxaphene-1			2686.7E6	2140.7E6	18837.347	19176.803
Average	toxaphene-1					4709.337	4794.201

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			2686.7E6	2140.7E6	18837.347	19176.803
Average	toxaphene-1					4709.337	4794.201

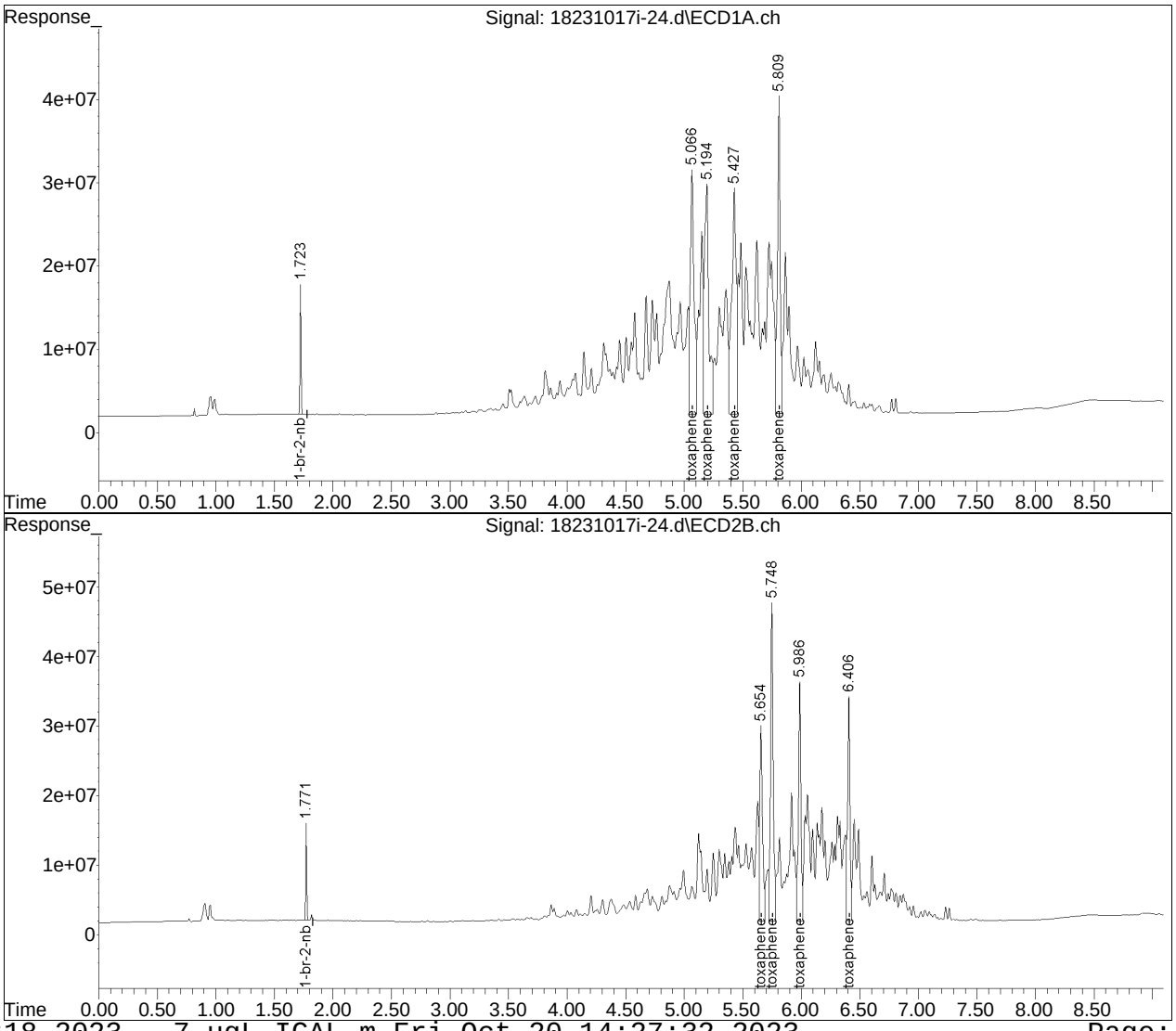
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 4:14 pm
Operator : PEST18:ejl
Sample : il9tox,42e,,pp 11326 L5.0
Misc : WG1842425,ical (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:31:58 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:30:57 2023
Response via : Initial Calibration
Integrator: ChemStation

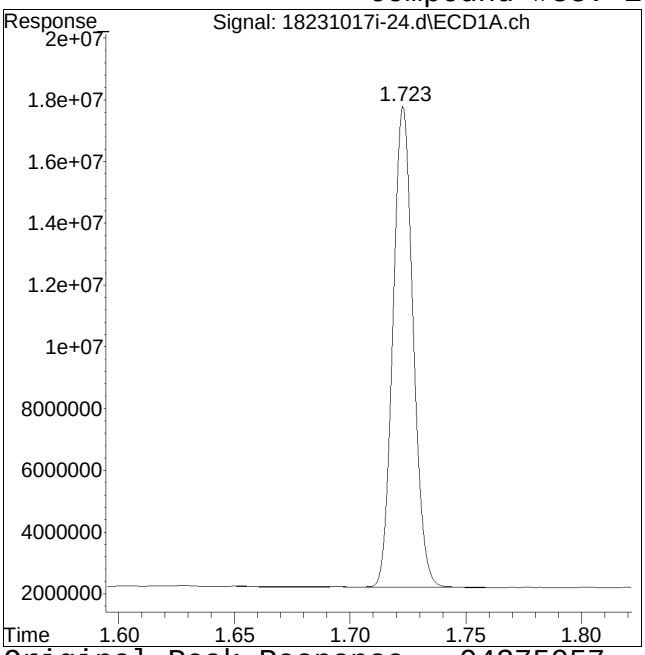
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

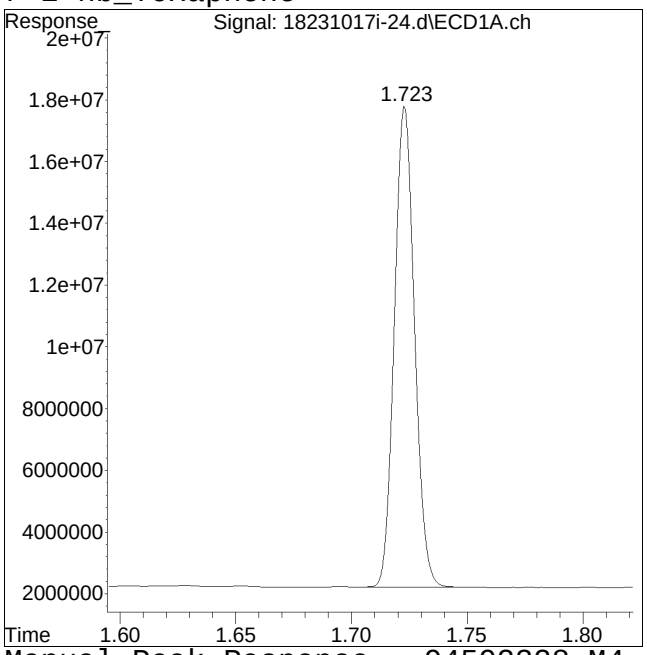


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-24.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 4:14 pm Instrument : Pest 18
Sample : il9tox,42e,,pp 11326 L5.0 Quant Date : 10/19/2023 10:31 am

Compound #33: 1-br-2-nb_Toxaphene



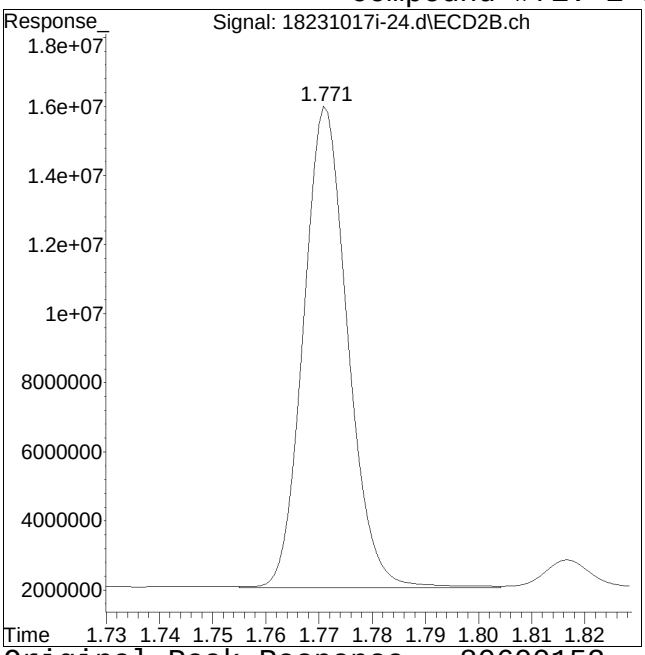


Original Peak Response = 94375057 Manual Peak Response = 94592328 M4
M4 = Poor automated baseline construction.

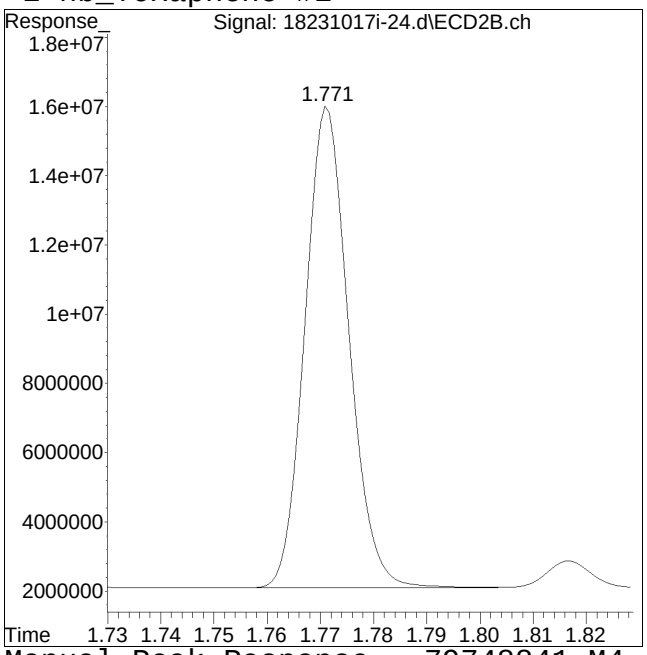
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-24.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 4:14 pm Instrument : Pest 18
Sample : il9tox,42e,,pp 11326 L5.0 Quant Date : 10/19/2023 10:31 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 80600152



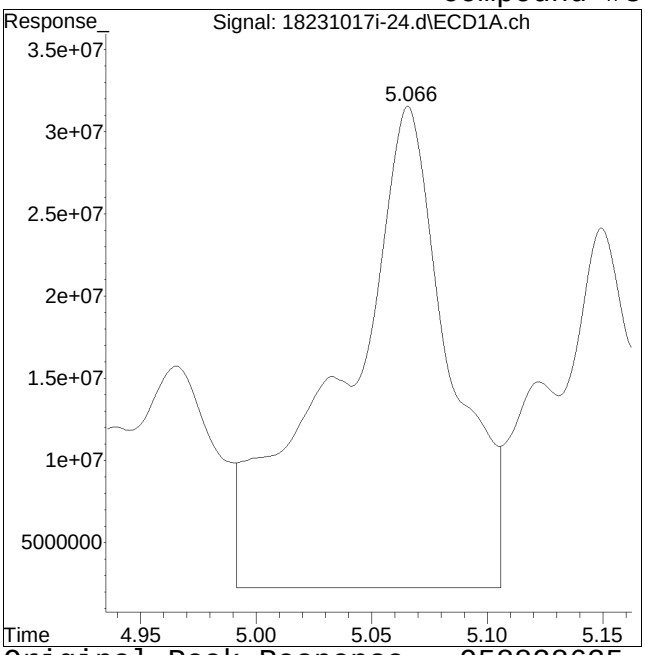
Manual Peak Response = 79748841 M4

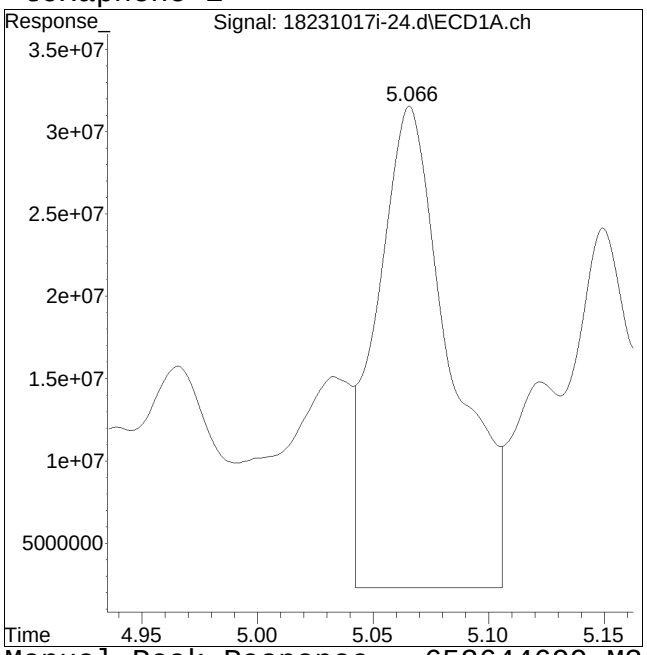
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-24.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 4:14 pm Instrument : Pest 18
Sample : il9tox,42e,,pp 11326 L5.0 Quant Date : 10/19/2023 10:31 am

Compound #34: toxaphene-1





Original Peak Response = 958838635 Manual Peak Response = 652644699 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 17 Oct 2023   4:25 pm
Operator : PEST18:ejl
Sample   : cicvtox,42e,,pp 11211 L2.0ICV
Misc   : WG1842425,ical
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:36:49 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:35:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	103	0.00
34	l2	toxaphene-1		*2000.000	2193.172	-9.7	108	0.00
35	l2	toxaphene-2		*2000.000	2155.328	-7.8	109	0.00
36	l2	toxaphene-3		*2000.000	2169.593	-8.5	110	0.00
37	l2	toxaphene-4		*2000.000	2157.820	-7.9	111	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	104	0.00
34	l2	toxaphene-1		*2000.000	2116.794	-5.8	108	0.00
35	l2	toxaphene-2		*2000.000	2119.022	-6.0	108	0.00
36	l2	toxaphene-3		*2000.000	2125.968	-6.3	109	0.00
37	l2	toxaphene-4		*2000.000	2108.373	-5.4	110	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.72#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-2.15#
3		Hexachlorobenzene		1.174	0.000	100.0#	0#	-2.40#
4		alpha-BHC		1.316	0.000	100.0#	0#	-2.51#
5		gamma-BHC (lindane)		1.215	0.000	100.0#	0#	-2.73#
6		beta-BHC	*	0.602	0.000	100.0#	0#	-2.80#
7		delta-BHC		1.244	0.000	100.0#	0#	-2.93#
8		Heptachlor		1.195	0.000	100.0#	0#	-3.10#
9		Aldrin		1.142	0.000	100.0#	0#	-3.35#
10		Alachlor		0.203	0.000	100.0#	0#	-3.48#
11		Chlorpyrifos		0.610	0.000	100.0#	0#	-3.58#
12		Heptachlor Epoxide		1.116	0.000	100.0#	0#	-3.91#
13		gamma-Chlordane (trans)		1.128	0.000	100.0#	0#	-4.03#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 17 Oct 2023   4:25 pm
Operator : PEST18:ejl
Sample   : cicvtox,42e,,pp 11211 L2.0ICV
Misc   : WG1842425,ical
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:36:49 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:35:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.194	0.000	100.0#	0#	-4.17#
15		4,4'-DDE		1.124	0.000	100.0#	0#	-4.28#
16		Endosulfan I		1.059	0.000	100.0#	0#	-4.30#
17		Dieldrin	*	50.000	0.000	100.0#	0	-4.57#
18		Endrin		1.154	0.000	100.0#	0#	-4.83#
19		4,4'-DDD		0.903	0.000	100.0#	0#	-4.95#
20		Endosulfan II		1.017	0.000	100.0#	0#	-5.08#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.25#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.51#
23		Methoxychlor		0.412	0.000	100.0#	0#	-5.76#
24		Mirex		0.948	0.000	100.0#	0#	-5.80#
25		Endosulfan Sulfate		0.950	0.000	100.0#	0#	-5.91#
26		Endrin Ketone		0.935	0.000	100.0#	0#	-6.14#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.95#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.73#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.10#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.47#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.04#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.17#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.77#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.057	0.000	100.0#	0#	-2.32#
3		Hexachlorobenzene		1.244	0.000	100.0#	0#	-2.66#
4		alpha-BHC		1.350	0.000	100.0#	0#	-2.76#
5		gamma-BHC (lindane)		1.263	0.000	100.0#	0#	-3.05#
6		beta-BHC	*	0.615	0.000	100.0#	0#	-3.13#
7		delta-BHC		1.271	0.000	100.0#	0#	-3.40#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 17 Oct 2023   4:25 pm
Operator : PEST18:ejl
Sample   : cicvtox,42e,,pp 11211 L2.0ICV
Misc   : WG1842425,ical
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:36:49 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:35:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.245	0.000	100.0#	0#	-3.45#
9		Aldrin		1.183	0.000	100.0#	0#	-3.76#
10		Alachlor		0.184	0.000	100.0#	0#	-3.66#
11		Chlorpyrifos		0.647	0.000	100.0#	0#	-4.02#
12		Heptachlor Epoxide		1.169	0.000	100.0#	0#	-4.38#
13		gamma-Chlordane (trans)		1.066	0.000	100.0#	0#	-4.60#
14		alpha-Chlordane (cis)		1.208	0.000	100.0#	0#	-4.77#
15		4,4'-DDE		1.171	0.000	100.0#	0#	-4.99#
16		Endosulfan I		1.099	0.000	100.0#	0#	-4.83#
17		Dieldrin		1.119	0.000	100.0#	0#	-5.15#
18		Endrin		1.129	0.000	100.0#	0#	-5.46#
19		4,4'-DDD		0.941	0.000	100.0#	0#	-5.60#
20		Endosulfan II		1.038	0.000	100.0#	0#	-5.67#
21		4,4'-DDT		0.822	0.000	100.0#	0#	-5.89#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.98#
23		Methoxychlor		0.462	0.000	100.0#	0#	-6.47#
24		Mirex	*	50.000	0.000	100.0#	0	-6.60#
25		Endosulfan Sulfate		0.991	0.000	100.0#	0#	-6.22#
26		Endrin Ketone		0.975	0.000	100.0#	0#	-6.64#
27	s	Decachlorobiphenyl		0.992	0.000	100.0#	0#	-7.53#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.77#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.32#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.93#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.60#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.78#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 4:25 pm
Operator : PEST18:ejl
Sample : cicvtox,42e,,pp 11211 L2.0ICV
Misc : WG1842425,ical
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:36:49 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:35:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.722	1.770	90702395	78639999	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4)	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 4:25 pm
Operator : PEST18:ejl
Sample : cicvtox,42e,,pp 11211 L2.0ICV
Misc : WG1842425,ical
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:36:49 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:35:47 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.066	5.655	281.9E6	195.9E6	2193.172M3	2116.794
35) l2	toxaphene-2	5.193	5.748	304.4E6	304.6E6	2155.328M3	2119.022
36) l2	toxaphene-3	5.428	5.987	300.7E6	221.8E6	2169.593	2125.968
37) l2	toxaphene-4	5.810	6.407	250.3E6	183.9E6	2157.820	2108.373
Sum	toxaphene-1			1137.4E6	906.2E6	8675.914	8470.157
Average	toxaphene-1					2168.979	2117.539

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			1137.4E6	906.2E6	8675.914	8470.157
Average	toxaphene-1					2168.979	2117.539

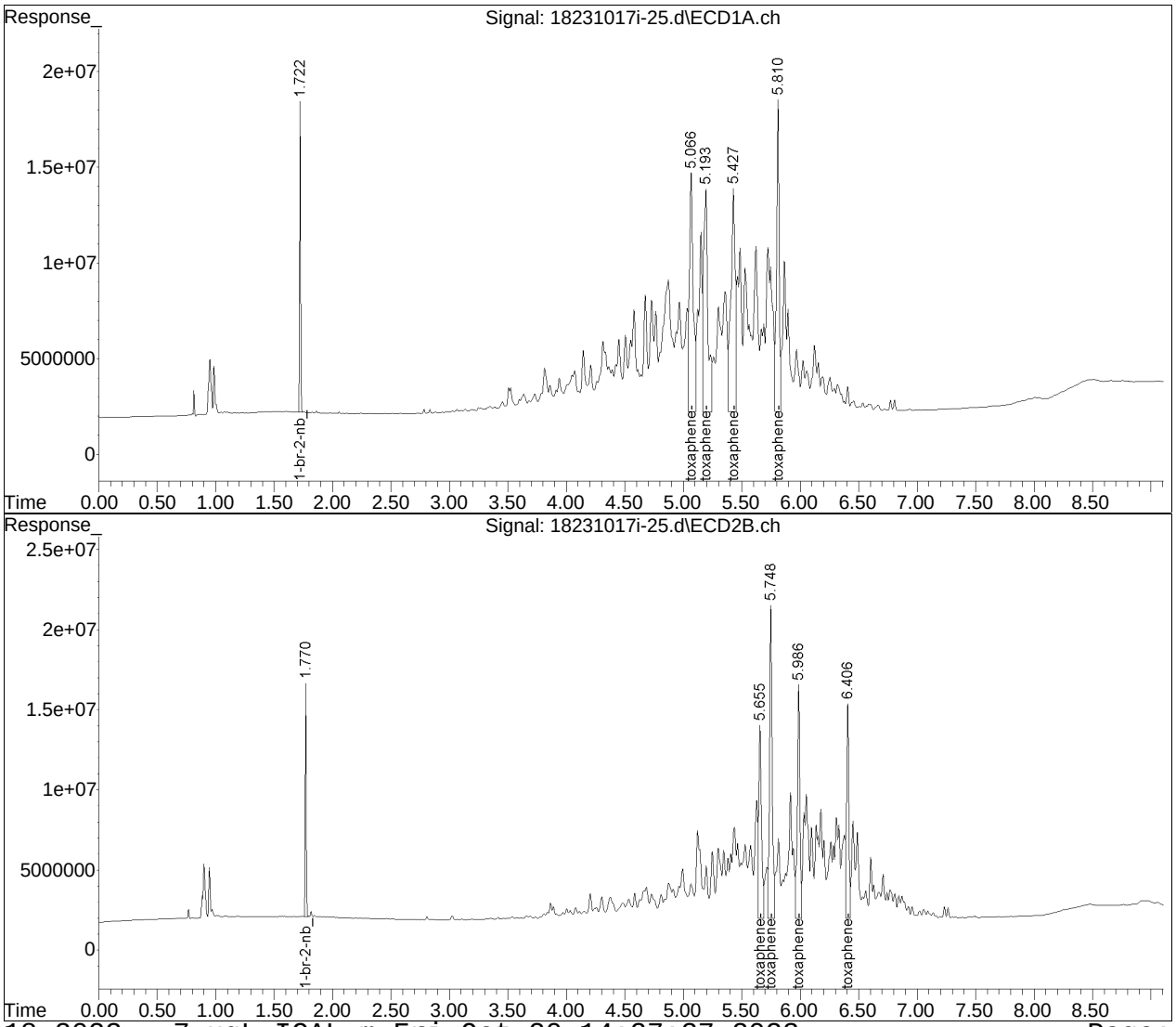
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231017ical\
Data File : 18231017i-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Oct 2023 4:25 pm
Operator : PEST18:ejl
Sample : cicvtox,42e,,pp 11211 L2.0ICV
Misc : WG1842425,ical
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 19 10:36:49 2023
Quant Method : I:\PEST\Pest18\2023\231017ical\pest18_2023_10_17_ugL_ICAL.m
Quant Title : pest
QLast Update : Thu Oct 19 10:35:47 2023
Response via : Initial Calibration
Integrator: ChemStation

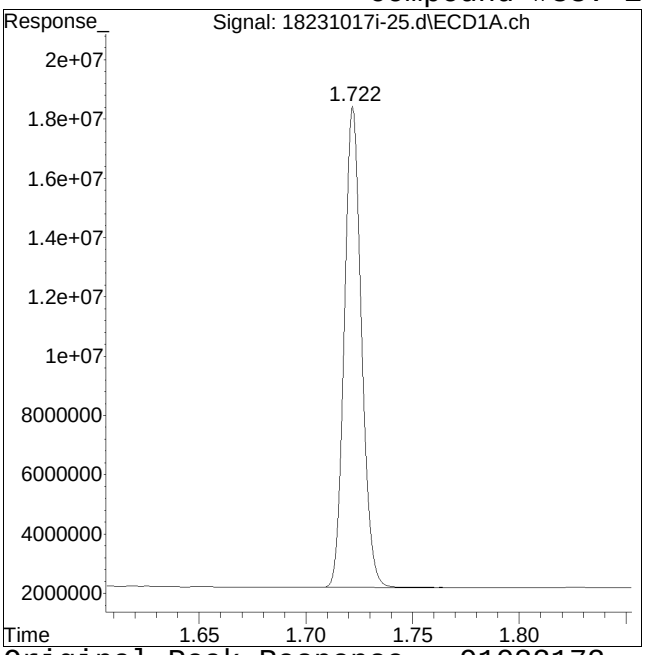
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



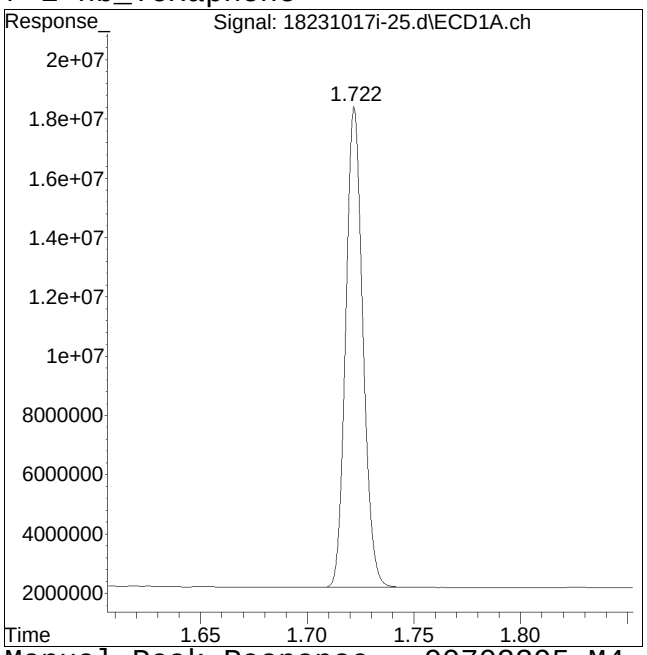
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-25.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 4:25 pm Instrument : Pest 18
Sample : cicvtox,42e,,pp 11211 L2.0Quant Date : 10/19/2023 10:35 am

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 91032172



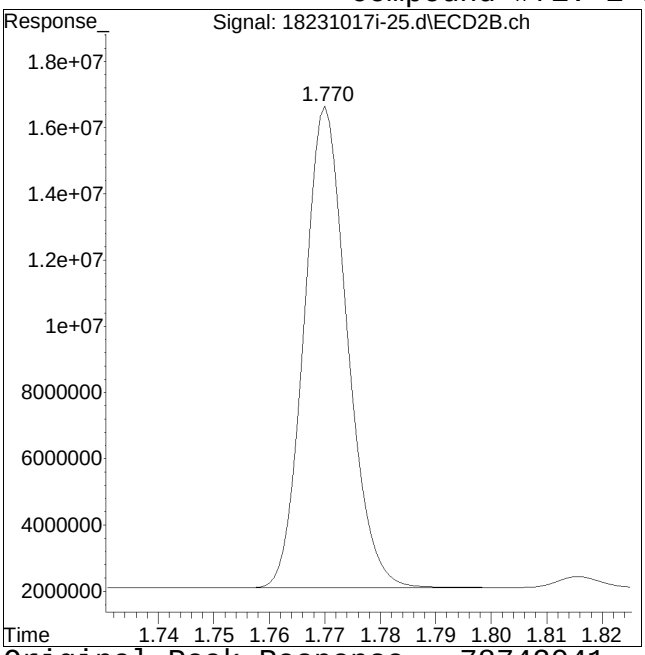
Manual Peak Response = 90702395 M4

M4 = Poor automated baseline construction.

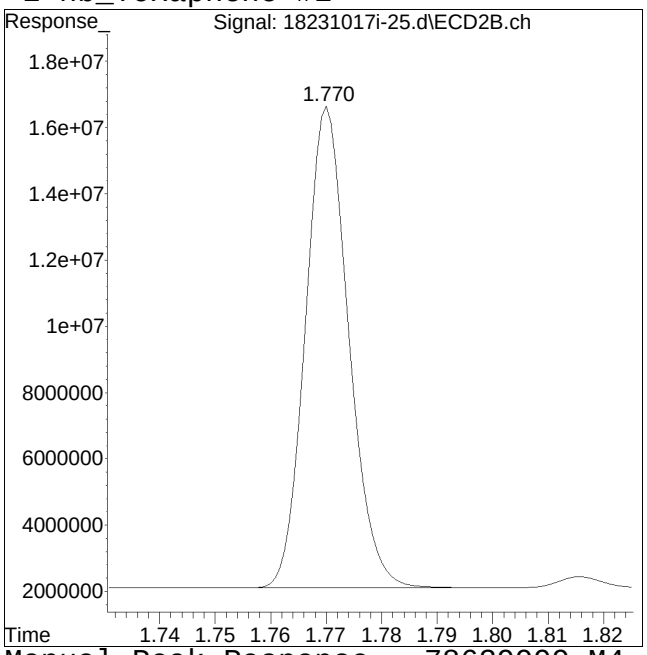
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-25.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 4:25 pm Instrument : Pest 18
Sample : cicvtox,42e,,pp 11211 L2.0Quant Date : 10/19/2023 10:35 am

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 78742041



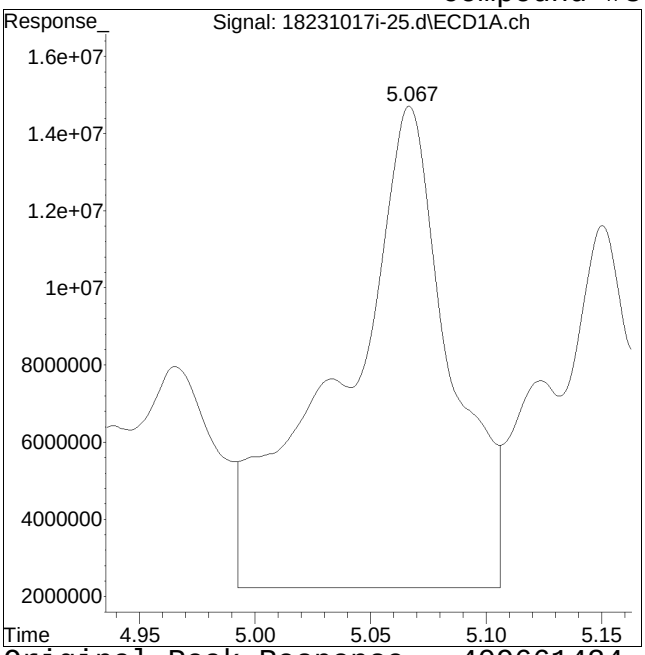
Manual Peak Response = 78639999 M4

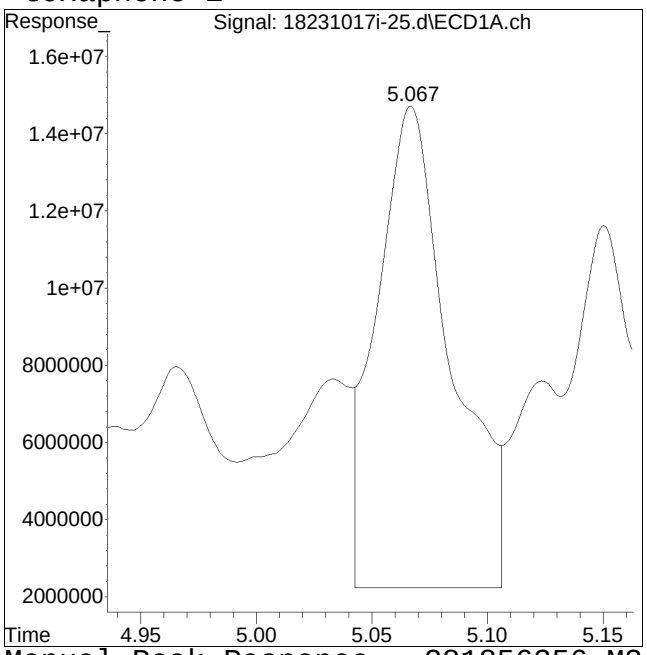
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-25.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 4:25 pm Instrument : Pest 18
Sample : cicvtox,42e,,pp 11211 L2.0Quant Date : 10/19/2023 10:35 am

Compound #34: toxaphene-1



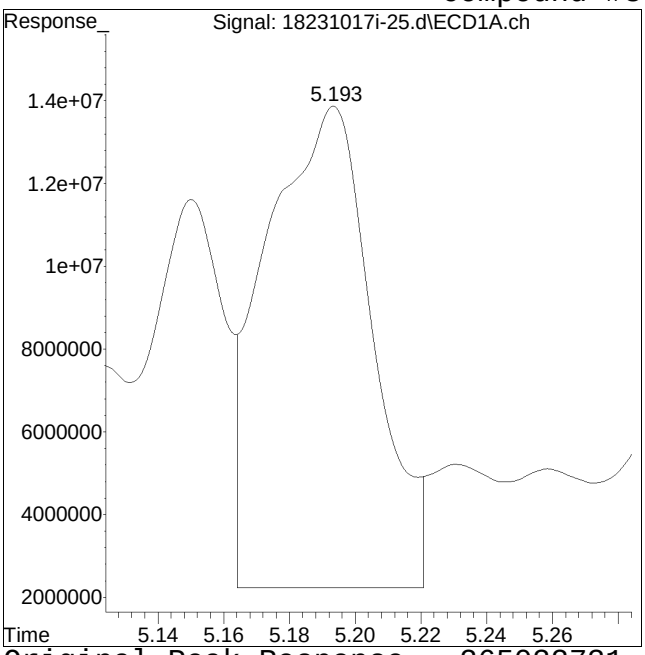


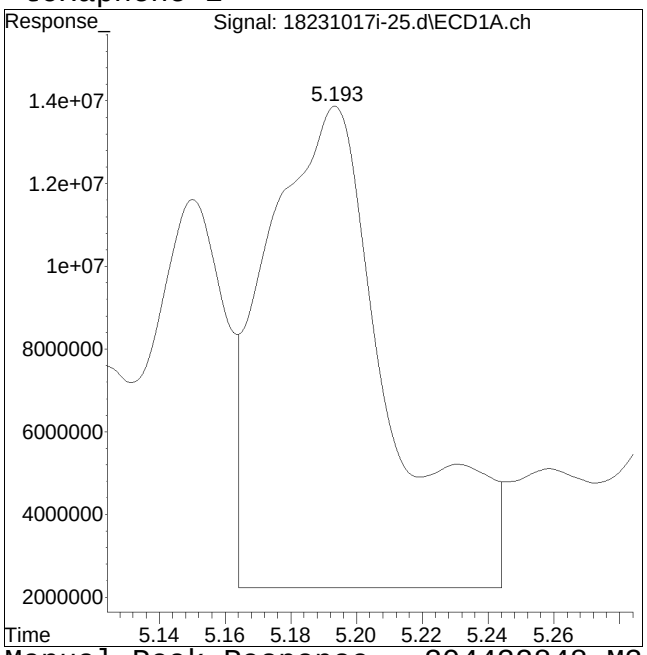
Original Peak Response = 409661424 Manual Peak Response = 281856356 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231017QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231017i-25.d Operator : PEST18:ejl
Date Inj'd : 10/17/2023 4:25 pm Instrument : Pest 18
Sample : cicvtox,42e,,pp 11211 L2.0Quant Date : 10/19/2023 10:35 am

Compound #35: toxaphene-2





Original Peak Response = 265032731 Manual Peak Response = 304432848 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Relative Error Report Pest 18

Method Path : I:\PEST\Pest18\2023\231017ical\
Method File : pest18_2023_10_17_ugL_ICAL.m
Title : pest
Last Update : Thu Oct 19 10:43:47 2023

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
6	beta-BHC	L	ug/l	50.0	54.057	8.1	1.00	0.755	-24.5
17	Dieldrin	L	ug/l	50.0	51.780	3.6	1.00	1.187	18.7
21	4,4'-DDT	L	ug/l	50.0	46.444	-7.1	2.00	2.542	27.1
22	Endrin Aldehyde	L	ug/l	50.0	51.916	3.8	1.00	0.850	-15.0
27 S	Decachlorobiphenyl	L	ug/l	50.0	51.059	2.1	2.00	1.816	-9.2
29 L1	chlordane-1	L	ug/l	1000.0	1011.376	1.1	10.00	9.750	-2.5
30 L1	chlordane-3	L	ug/l	1000.0	1054.032	5.4	10.00	7.244	-27.6
31 L1	chlordane-4	L	ug/l	1000.0	1009.414	0.9	10.00	10.070	0.7
32 L1	chlordane-5	L	ug/l	1000.0	1011.044	1.1	10.00	9.500	-5.0
34 L2	toxaphene-1	L	ug/l	2000.0	2134.686	6.7	20.00	19.189	-4.1
35 L2	toxaphene-2	L	ug/l	2000.0	2083.334	4.2	20.00	19.498	-2.5
36 L2	toxaphene-3	L	ug/l	2000.0	2075.834	3.8	20.00	19.543	-2.3
37 L2	toxaphene-4	L	ug/l	2000.0	2054.590	2.7	20.00	19.671	-1.6
44	beta-BHC #2	L	ug/l	50.0	53.118	6.2	1.00	0.759	-24.1
60	Endrin Aldehyde #2	L	ug/l	50.0	51.033	2.1	1.00	1.088	8.8
62	Mirex #2	L	ug/l	50.0	54.638	9.3	2.00	1.579	-21.1
67 L1	chlordane-1 #2	L	ug/l	1000.0	1015.444	1.5	10.00	9.525	-4.7
68 L1	chlordane-3 #2	L	ug/l	1000.0	1049.242	4.9	10.00	7.743	-22.6
69 L1	chlordane-4 #2	L	ug/l	1000.0	1002.304	0.2	10.00	9.714	-2.9
70 L1	chlordane-5 #2	L	ug/l	1000.0	1002.328	0.2	10.00	9.819	-1.8
72 L2	toxaphene-1 #2	L	ug/l	2000.0	2077.602	3.9	20.00	19.533	-2.3
73 L2	toxaphene-2 #2	L	ug/l	2000.0	2067.336	3.4	20.00	19.594	-2.0
74 L2	toxaphene-3 #2	L	ug/l	2000.0	2063.104	3.2	20.00	19.620	-1.9
75 L2	toxaphene-4 #2	L	ug/l	2000.0	2028.541	1.4	20.00	19.828	-0.9

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
6	beta-BHC	Linear	0.999157	0.000000	0.547567	0.00875813
17	Dieldrin	Linear	0.999445	0.000000	1.07818	0.0197385
21	4,4'-DDT	Linear	0.998834	0.000000	0.91347	-0.0475551
22	Endrin Aldehyde	Linear	0.998929	0.000000	0.822847	0.00819723
27 S	Decachlorobiphenyl	Linear	0.997751	0.000000	0.950785	0.0545891
29 L1	chlordane-1	Linear	0.999669	0.000000	0.0587922	0.00624185
30 L1	chlordane-3	Linear	0.997929	0.000000	0.0399515	0.00893746
31 L1	chlordane-4	Linear	0.999792	0.000000	0.137722	0.031509
32 L1	chlordane-5	Linear	0.999753	0.000000	0.212338	0.0152505
34 L2	toxaphene-1	Linear	0.998149	0.000000	0.035467	-0.00392651
35 L2	toxaphene-2	Linear	0.999291	0.000000	0.0389722	-0.00352568
36 L2	toxaphene-3	Linear	0.999413	0.000000	0.038162	0.00368716
37 L2	toxaphene-4	Linear	0.999695	0.000000	0.0319306	0.00408425
44	beta-BHC #2	Linear	0.999500	0.000000	0.567418	0.00776452
60	Endrin Aldehyde #2	Linear	0.999567	0.000000	0.826158	0.0260832
62	Mirex #2	Linear	0.997626	0.000000	0.74642	0.0409911
67 L1	chlordane-1 #2	Linear	0.999622	0.000000	0.0361004	0.00390131
68 L1	chlordane-3 #2	Linear	0.998180	0.000000	0.0359611	0.00719812
69 L1	chlordane-4 #2	Linear	0.999858	0.000000	0.133228	0.00440569
70 L1	chlordane-5 #2	Linear	0.999878	0.000000	0.107286	0.00721363
72 L2	toxaphene-1 #2	Linear	0.999385	0.000000	0.0294193	6.50048e-005
73 L2	toxaphene-2 #2	Linear	0.999537	0.000000	0.0456206	0.00712358
74 L2	toxaphene-3 #2	Linear	0.999593	0.000000	0.0329943	0.0141382
75 L2	toxaphene-4 #2	Linear	0.999917	0.000000	0.0277009	0.00219319

Response Factor Report Pest 10

Method Path : I:\PEST\Pest10\2023\231113ical\
Method File : pest10_2023_11_13_ugL_ical.m
Title : pest
Last Update : Tue Nov 14 09:25:23 2023
Response Via : Initial Calibration

Calibration Files
1 =10231113i-03.d 2 =10231113i-04.d 3 =10231113i-22.d 4 =10231113i-15.d 5 =10231113i-16.d
7 =10231113i-17.d 8 =10231113i-23.d 9 =10231113i-24.d 10 =10231113i-20.d 11 =10231113i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...		1.100	1.174	1.121	1.224	1.009	0.954	0.957	0.953	0.909	1.045	10.79
3)	t	Hexachloroben...		1.236	1.227	1.181	1.215	1.099	1.029	1.029	1.031	1.018	1.118	8.53
4)	t	alpha-BHC		1.366	1.378	1.363	1.406	1.347	1.430	1.475	1.516	1.516	1.422	4.64
5)	t	gamma-BHC (li...	1.367	1.308	1.334	1.317	1.353	1.279	1.313	1.353	1.383	1.379	1.339	2.54
6)	t	beta-BHC		0.694	0.676	0.659	0.679	0.607	0.559	0.564	0.565	0.569	0.619	9.29
7)	t	delta-BHC		1.379	1.339	1.312	1.335	1.283	1.343	1.401	1.451	1.479	1.369	4.73
8)	t	Heptachlor		1.357	1.391	1.361	1.356	1.278	1.254	1.281	1.271	1.220	1.308	4.52
9)	t	Aldrin		1.183	1.250	1.215	1.210	1.153	1.171	1.208	1.219	1.182	1.199	2.47
10)	t	Alachlor		0.308	0.307	0.299	0.307	0.287	0.264	0.257	0.237		0.283	9.60
11)	t	Chlorpyrifos			0.737	0.727	0.708	0.649	0.563	0.547	0.516		0.635	14.56
12)	t	Heptachlor Ep...		1.238	1.282	1.248	1.246	1.153	1.123	1.137	1.134	1.087	1.183	5.93
13)	t	gamma-Chlorda...		1.162	1.145	1.124	1.091	1.025	1.008	1.040	1.063	1.050	1.079	5.09
14)	t	alpha-Chlorda...		1.336	1.404	1.352	1.346	1.191	1.144	1.177	1.191	1.164	1.256	8.02
15)	t	4,4'-DDE		1.137	1.194	1.175	1.137	1.107	1.128	1.189	1.202	1.166	1.160	2.87
16)	t	Endosulfan I		1.188	1.236	1.210	1.185	1.115	1.075	1.100	1.095	1.049	1.139	5.81

Method Path : I:\PEST\Pest10\2023\231113ical\
Method File : pest10_2023_11_13_ugL_ical.m
Title : pest
Last Update : Tue Nov 14 09:25:23 2023
Response Via : Initial Calibration

Calibration Files
1 =10231113i-03.d 2 =10231113i-04.d 3 =10231113i-22.d 4 =10231113i-15.d 5 =10231113i-16.d
7 =10231113i-17.d 8 =10231113i-23.d 9 =10231113i-24.d 10 =10231113i-20.d 11 =10231113i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
17)	t	Dieldrin		1.175	1.210	1.190	1.171	1.117	1.118	1.163	1.175	1.143	1.162	2.69
18)	t	Endrin		1.211	1.271	1.254	1.221	1.183	1.171	1.208	1.206	1.163	1.210	2.96
19)	t	4,4'-DDD		0.924	0.977	0.984	0.938	0.912	0.924	0.975	0.990	0.973	0.955	3.17
20)	t	Endosulfan II		1.143	1.196	1.160	1.137	1.074	1.040	1.069	1.065	1.030	1.102	5.32
21)	t	4,4'-DDT		1.084	1.155	1.146	1.049	1.052	1.048	1.110	1.120	1.092	1.095	3.73
22)	t	Endrin Aldehyde		0.939	0.957	0.934	0.909	0.878	0.869	0.906	0.892	0.851	0.904	3.87
23)	t	Methoxychlor		0.694	0.719	0.721	0.660	0.637	0.576	0.583	0.557	0.519	0.629	11.78
24)	t	Mirex			1.160	1.142	1.048	0.996	0.872	0.884	0.872		0.996	12.60
25)	t	Endosulfan Su...		1.156	1.166	1.169	1.109	1.066	1.003	1.029	1.025	0.985	1.079	6.79
26)	t	Endrin Ketone		1.299	1.345	1.321	1.266	1.222	1.169	1.187	1.164	1.097	1.230	6.75
27)	s	Decachlorobip...			1.190	1.126	1.037	0.995	0.897	0.897	0.888	0.842	0.984	12.72
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1			0.045	0.042	0.041	0.039	0.040	0.040	0.040		*L	0.999
9														
30)	l1	chlordane-3			0.073	0.072	0.070	0.069	0.071	0.071	0.068		*L	0.999
7														
31)	l1	chlordane-4			0.054	0.050	0.050	0.046	0.046	0.045	0.043		*L	0.999
1														
32)	l1	chlordane-5			0.181	0.159	0.162	0.157	0.165	0.165	0.161		*L	0.999
8														

Method Path : I:\PEST\Pest10\2023\231113ical\
Method File : pest10_2023_11_13_ugL_ical.m
Title : pest
Last Update : Tue Nov 14 09:25:23 2023
Response Via : Initial Calibration

Calibration Files
1 =10231113i-03.d 2 =10231113i-04.d 3 =10231113i-22.d 4 =10231113i-15.d 5 =10231113i-16.d
7 =10231113i-17.d 8 =10231113i-23.d 9 =10231113i-24.d 10 =10231113i-20.d 11 =10231113i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-1			0.041			0.047	0.045				*L		0.9998
35)	l2	toxaphene-2			0.044			0.045	0.044				*L		1.0000
36)	l2	toxaphene-4			0.051			0.039	0.040				*L		0.9999
37)	l2	toxaphene-5			0.057			0.046	0.046				*L		1.0000

Signal #2 Calibration Files
1 =10231113i-03.d 2 =10231113i-04.d 3 =10231113i-22.d 4 =10231113i-15.d 5 =10231113i-16.d
7 =10231113i-17.d 8 =10231113i-23.d 9 =10231113i-24.d 10 =10231113i-20.d 11 =10231113i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra...	1.130	1.124	1.094	1.008	1.016	0.993	0.989	1.020	0.998		1.041	5.55
3)	t	Hexachloroben...	1.350	1.377	1.316	1.226	1.181	1.117	1.111	1.131	1.118		1.214	8.89
4)	t	alpha-BHC	1.466	1.489	1.453	1.369	1.416	1.533	1.600	1.679	1.697		1.522	7.53
5)	t	gamma-BHC (li...	1.506	1.483	1.465	1.418	1.332	1.355	1.417	1.462	1.531	1.543	1.451	4.87
6)	t	beta-BHC	0.777	0.768	0.743	0.687	0.671	0.631	0.626	0.637	0.635		0.686	8.94
7)	t	delta-BHC	1.428	1.432	1.418	1.317	1.352	1.452	1.516	1.610	1.644		1.463	7.46
8)	t	Heptachlor	1.636	1.642	1.588	1.469	1.469	1.463	1.487	1.519	1.456		1.525	5.00
9)	t	Aldrin	1.460	1.483	1.435	1.304	1.331	1.364	1.408	1.453	1.408		1.405	4.32

Response Factor Report Pest 10

Method Path : I:\PEST\Pest10\2023\231113ical\
Method File : pest10_2023_11_13_ugL_ical.m
Title : pest
Last Update : Tue Nov 14 09:25:23 2023
Response Via : Initial Calibration

Calibration Files
1 =10231113i-03.d 2 =10231113i-04.d 3 =10231113i-22.d 4 =10231113i-15.d 5 =10231113i-16.d
7 =10231113i-17.d 8 =10231113i-23.d 9 =10231113i-24.d 10 =10231113i-20.d 11 =10231113i-12.d

	Compound	1	2	3	4	5	7	8	9	10	11	Avg	%RSD
10) t	Alachlor	0.221	0.226	0.219	0.212	0.221	0.203	0.192	0.182			0.209	7.60
11) t	Chlorpyrifos		1.015	0.966	0.867	0.850	0.744	0.714	0.682			*L	0.998
8													
12) t	Heptachlor Ep...	1.608	1.650	1.553	1.431	1.389	1.345	1.363	1.382	1.325		1.450	8.39
13) t	gamma-Chlorda...	1.367	1.405	1.352	1.219	1.229	1.204	1.238	1.279	1.256		1.283	5.69
14) t	alpha-Chlorda...	1.610	1.606	1.556	1.376	1.385	1.349	1.377	1.417	1.383		1.451	7.40
15) t	4,4'-DDE	1.348	1.398	1.371	1.221	1.273	1.328	1.391	1.438	1.390		1.351	5.03
16) t	Endosulfan I	1.515	1.517	1.468	1.313	1.316	1.278	1.294	1.317	1.261		1.364	7.64
17) t	Dieldrin	1.435	1.437	1.416	1.264	1.295	1.317	1.353	1.395	1.350		1.362	4.59
18) t	Endrin	1.487	1.532	1.465	1.310	1.344	1.365	1.406	1.440	1.384		1.415	5.10
19) t	4,4'-DDD	1.136	1.171	1.135	0.995	1.042	1.083	1.134	1.174	1.144		1.113	5.45
20) t	Endosulfan II	1.530	1.469	1.422	1.271	1.271	1.233	1.246	1.265	1.217		1.325	8.77
21) t	4,4'-DDT	1.338	1.358	1.352	1.172	1.203	1.235	1.281	1.331	1.287		1.284	5.28
22) t	Endrin Aldehyde	1.187	1.139	1.117	0.995	1.026	1.026	1.051	1.066	1.013		*L	0.999
4													
23) t	Methoxychlor	0.908	0.861	0.875	0.708	0.723	0.669	0.667	0.662	0.622		0.744	14.47
24) t	Mirex		1.513	1.476	1.234	1.212	1.043	1.023	1.015			*L	0.999
6													
25) t	Endosulfan Su...	1.489	1.465	1.410	1.234	1.241	1.187	1.202	1.231	1.173		1.292	9.68

Method Path : I:\PEST\Pest10\2023\231113ical\
Method File : pest10_2023_11_13_ugL_ical.m
Title : pest
Last Update : Tue Nov 14 09:25:23 2023
Response Via : Initial Calibration

Calibration Files
1 =10231113i-03.d 2 =10231113i-04.d 3 =10231113i-22.d 4 =10231113i-15.d 5 =10231113i-16.d
7 =10231113i-17.d 8 =10231113i-23.d 9 =10231113i-24.d 10 =10231113i-20.d 11 =10231113i-12.d

		Compound	1	2	3	4	5	7	8	9	10	11	Avg		%RSD
26)	t	Endrin Ketone	1.588	1.581	1.541	1.331	1.365	1.319	1.339	1.355	1.292		1.412		8.53
27)	s	Decachlorobip...			1.504	1.465	1.188	1.201	1.056	1.050	1.051	0.997		*L	0.999 2
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1			0.047	0.049	0.047	0.045	0.045	0.045	0.045		0.046		3.32
30)	l1	chlordane-3			0.061	0.061	0.055	0.051	0.050	0.049	0.046		0.053		10.90
31)	l1	chlordane-4			0.187	0.186	0.172	0.174	0.179	0.182	0.179		0.180		3.10
32)	l1	chlordane-5			0.160	0.154	0.141	0.139	0.142	0.144	0.141		0.146		5.28
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-1			0.020			0.029	0.028					*L	0.999 9
35)	l2	toxaphene-2			0.044			0.042	0.041					*L	0.999 8
36)	l2	toxaphene-4			0.071			0.052	0.051					*L	0.999 9
37)	l2	toxaphene-5			0.040			0.048	0.047					*L	0.999 9

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 4:34 pm
Operator : PEST10:ejl
Sample : pem10231113i-01,42e,,pp 11372 -- (Sig #1); pem-01,42e,,pp 11372 -- (Sig #2)
Misc : WG1859418,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:27:30 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:25:23 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	Internal Standards							
1) i	1-br-2-nb_Pe	1.317	1.407	182.6E6	78489459	25.000	25.000M4	
	System Monitoring Compounds							
	Target Compounds							
15) t	4,4'-DDE	3.677	4.555	1138912	742126	0.134	0.175M4	
18) t	Endrin	4.235	5.002	449.8E6	218.5E6	50.895	49.193M4	
19) t	4,4'-DDD	4.345	5.121	1903495	1659697	0.273M4	0.475	D
21) t	4,4'-DDT	4.634	5.394	824.8E6	396.7E6	103.092	98.397M4	
22) t	Endrin Aldeh	4.898	5.491	343400	296773	0.052M2	N.D. M2	D
26) t	Endrin Keton	5.514	6.127	1675173	1435606	0.186	0.324	D
	Sum chlordane-1			0	0	N.D.	N.D.	
Average	chlordane-1					0.000	0.000	
	Sum toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	
	SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

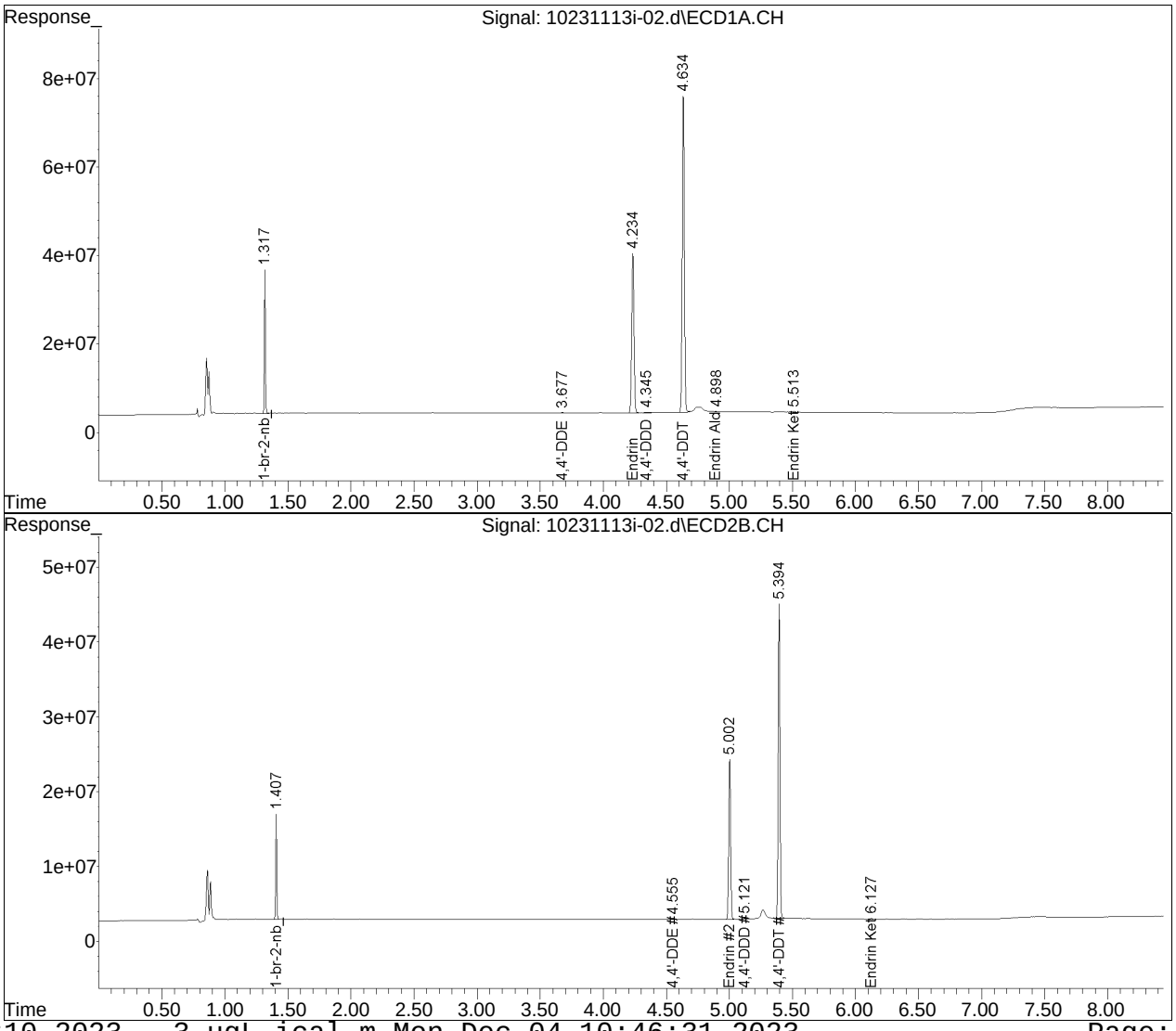
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 4:34 pm
Operator : PEST10:ejl
Sample : pem10231113i-01,42e,,pp 11372 -- (Sig #1); pem-01,42e,,pp 11372 --
Misc : WG1859418,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:27:30 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:25:23 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

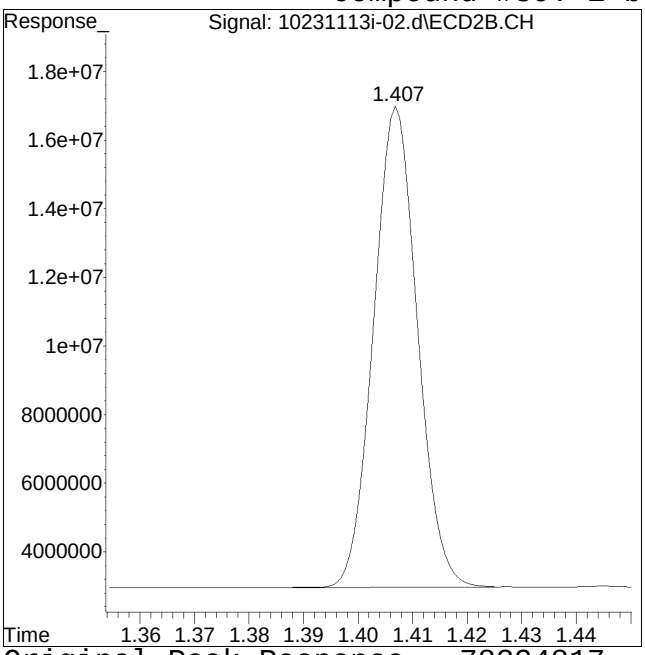
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



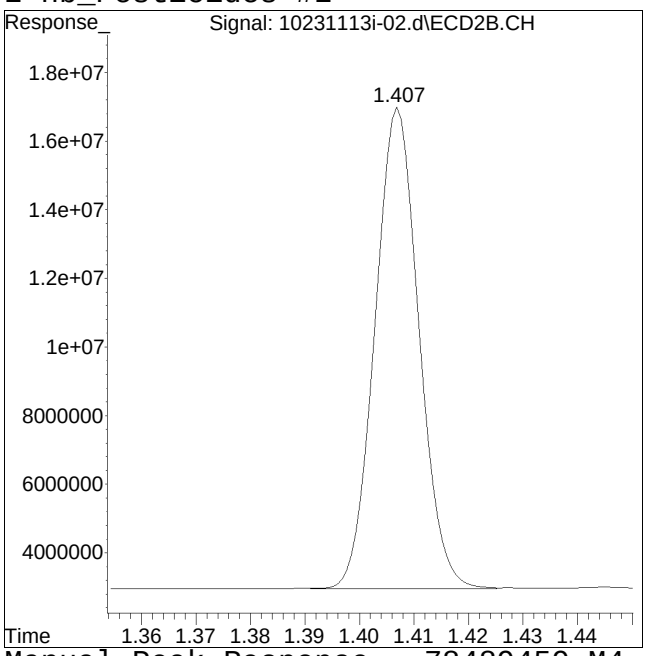
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-02.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 4:34 pm Instrument : Pest 10
Sample : pem10231113i-01,42e,,pp 11Quant Date : 11/14/2023 9:26 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 78324817



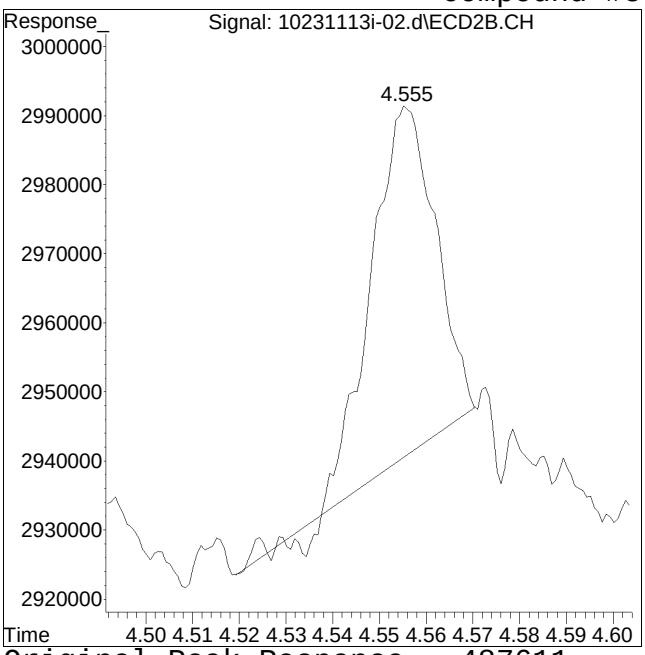
Manual Peak Response = 78489459 M4

M4 = Poor automated baseline construction.

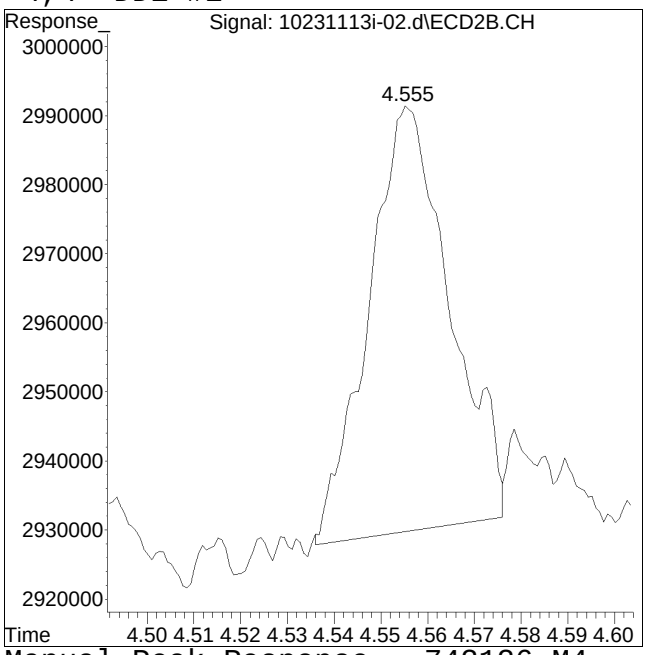
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-02.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 4:34 pm Instrument : Pest 10
Sample : pem10231113i-01,42e,,pp 11Quant Date : 11/14/2023 9:26 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 487611



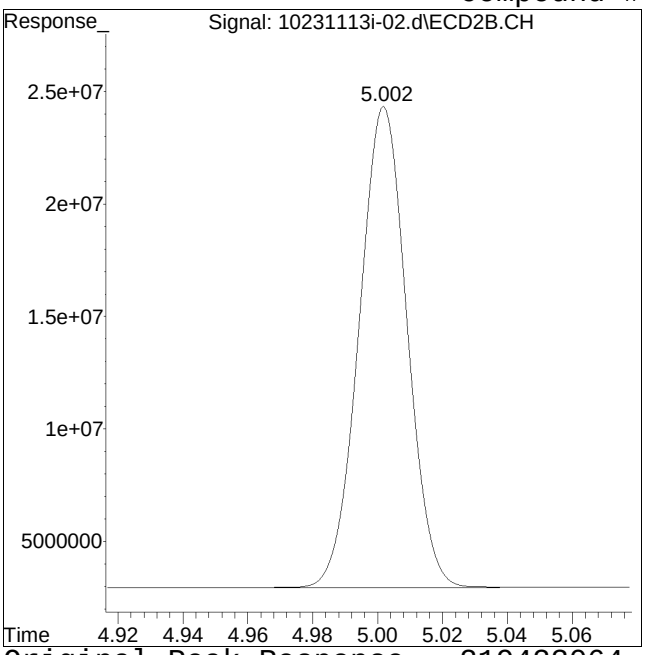
Manual Peak Response = 742126 M4

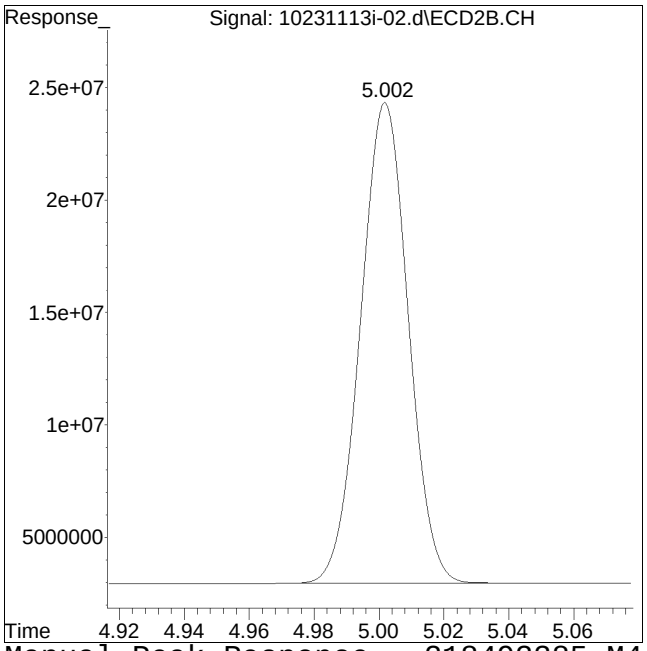
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-02.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 4:34 pm Instrument : Pest 10
Sample : pem10231113i-01,42e,,pp 11Quant Date : 11/14/2023 9:26 am

Compound #56: Endrin #2



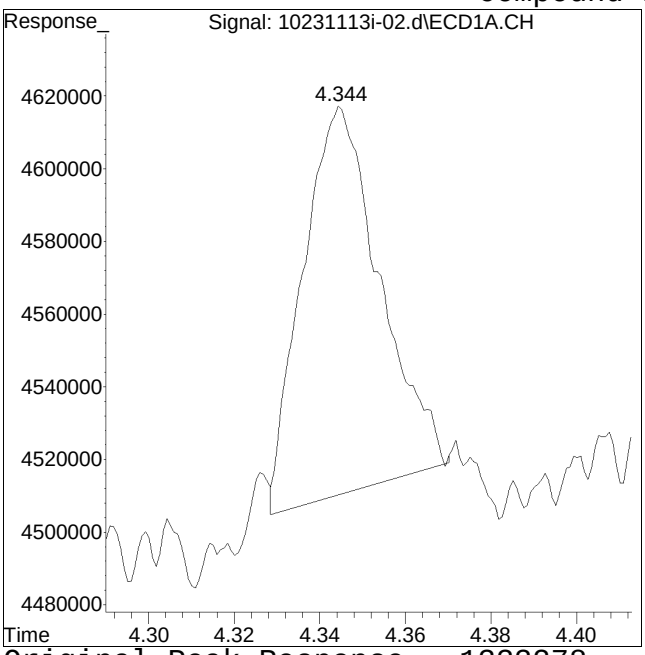


Original Peak Response = 219423064 Manual Peak Response = 218493385 M4
M4 = Poor automated baseline construction.

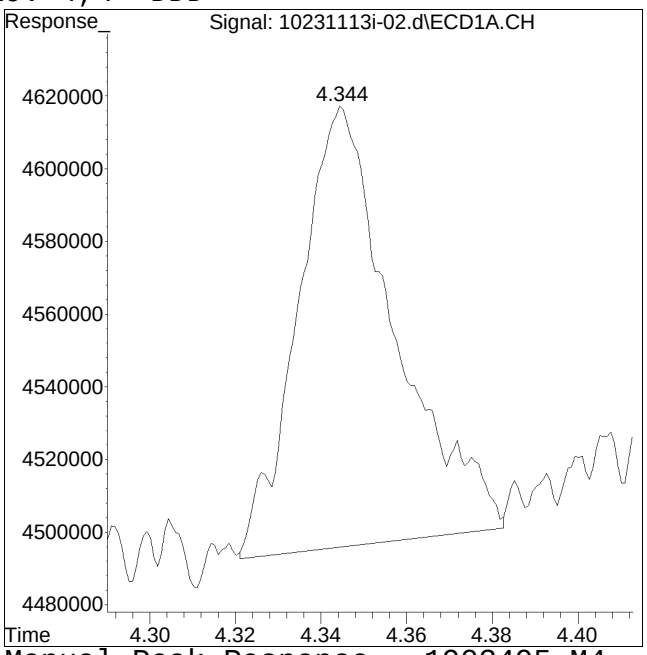
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-02.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 4:34 pm Instrument : Pest 10
Sample : pem10231113i-01,42e,,pp 11Quant Date : 11/14/2023 9:26 am

Compound #19: 4,4'-DDD



Original Peak Response = 1333278



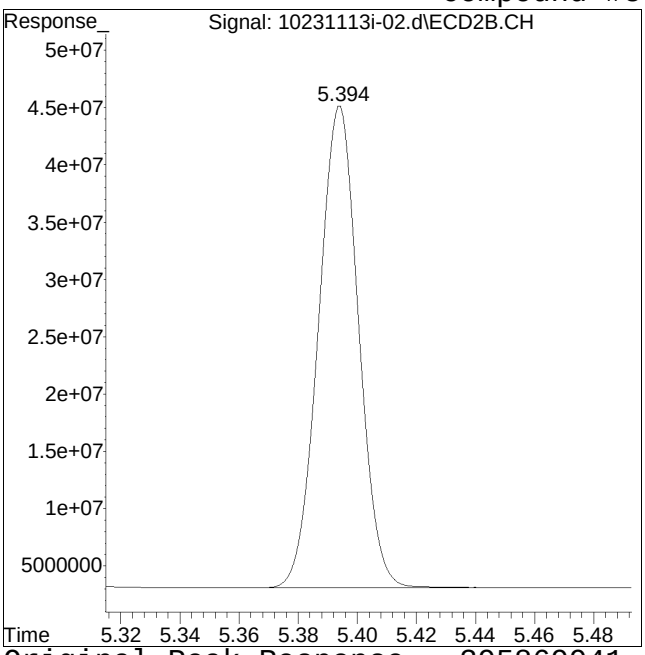
Manual Peak Response = 1903495 M4

M4 = Poor automated baseline construction.

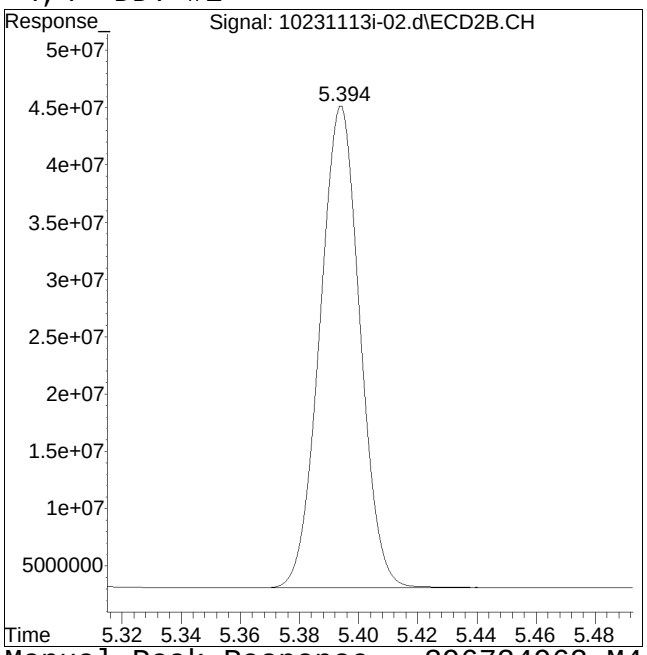
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-02.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 4:34 pm Instrument : Pest 10
Sample : pem10231113i-01,42e,,pp 11Quant Date : 11/14/2023 9:26 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 395869941



Manual Peak Response = 396724962 M4

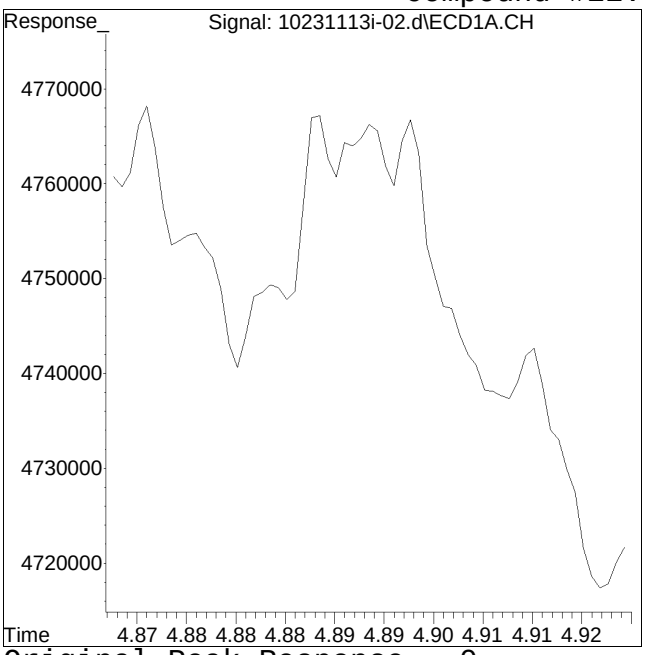
M4 = Poor automated baseline construction.

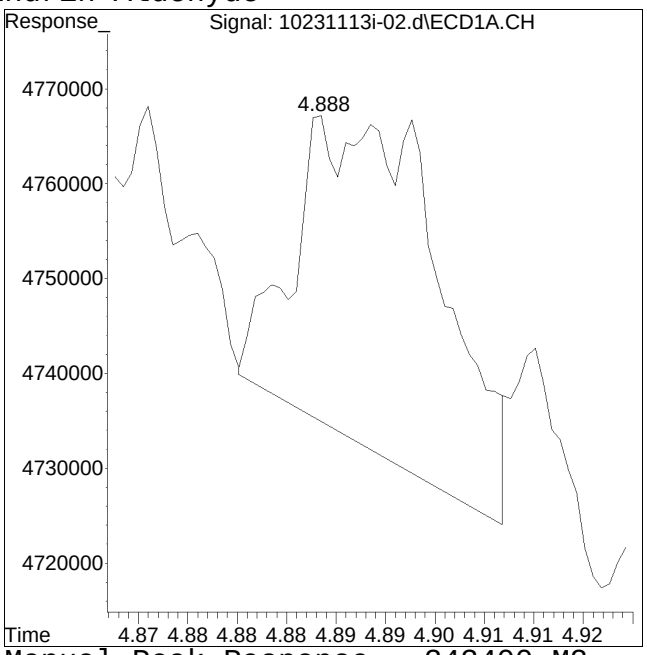
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-02.d
Date Inj'd : 11/13/2023 4:34 pm
Sample : pem10231113i-01,42e,,pp 11

Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 9:26 am

Compound #22: Endrin Aldehyde



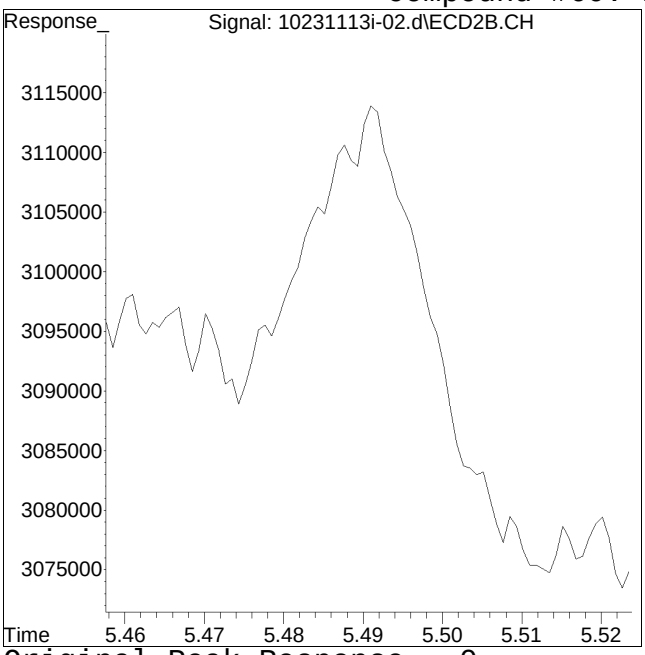


Original Peak Response = 0
Manual Peak Response = 343400 M2
M2 = Peak not found by automatic integration algorithm.

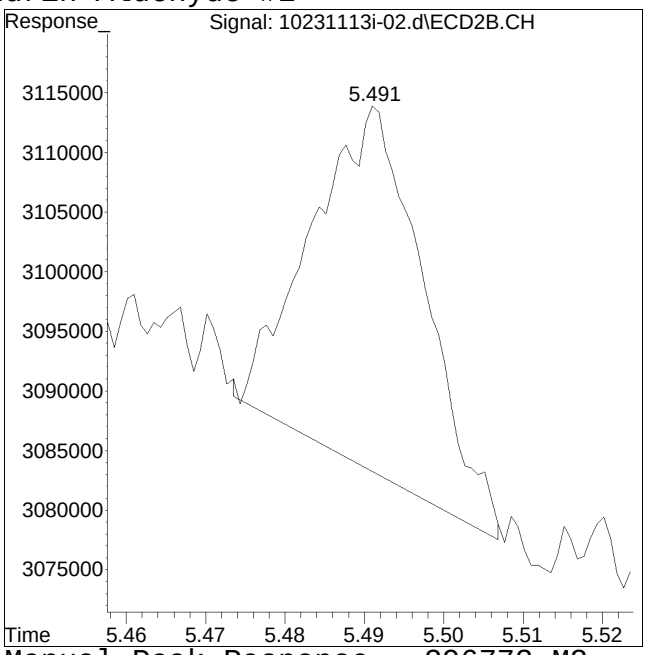
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-02.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 4:34 pm Instrument : Pest 10
Sample : pem10231113i-01,42e,,pp 11Quant Date : 11/14/2023 9:26 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 0



Manual Peak Response = 296773 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 4:45 pm
Operator : PEST10:ejl
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:59:56 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:59:10 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.315	1.408	180.5E6	77835950	25.000	25.000M3
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	2.178	2.617	4937129	2344878	0.512	0.521
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 4:45 pm
Operator : PEST10:ejl
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:59:56 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:59:10 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

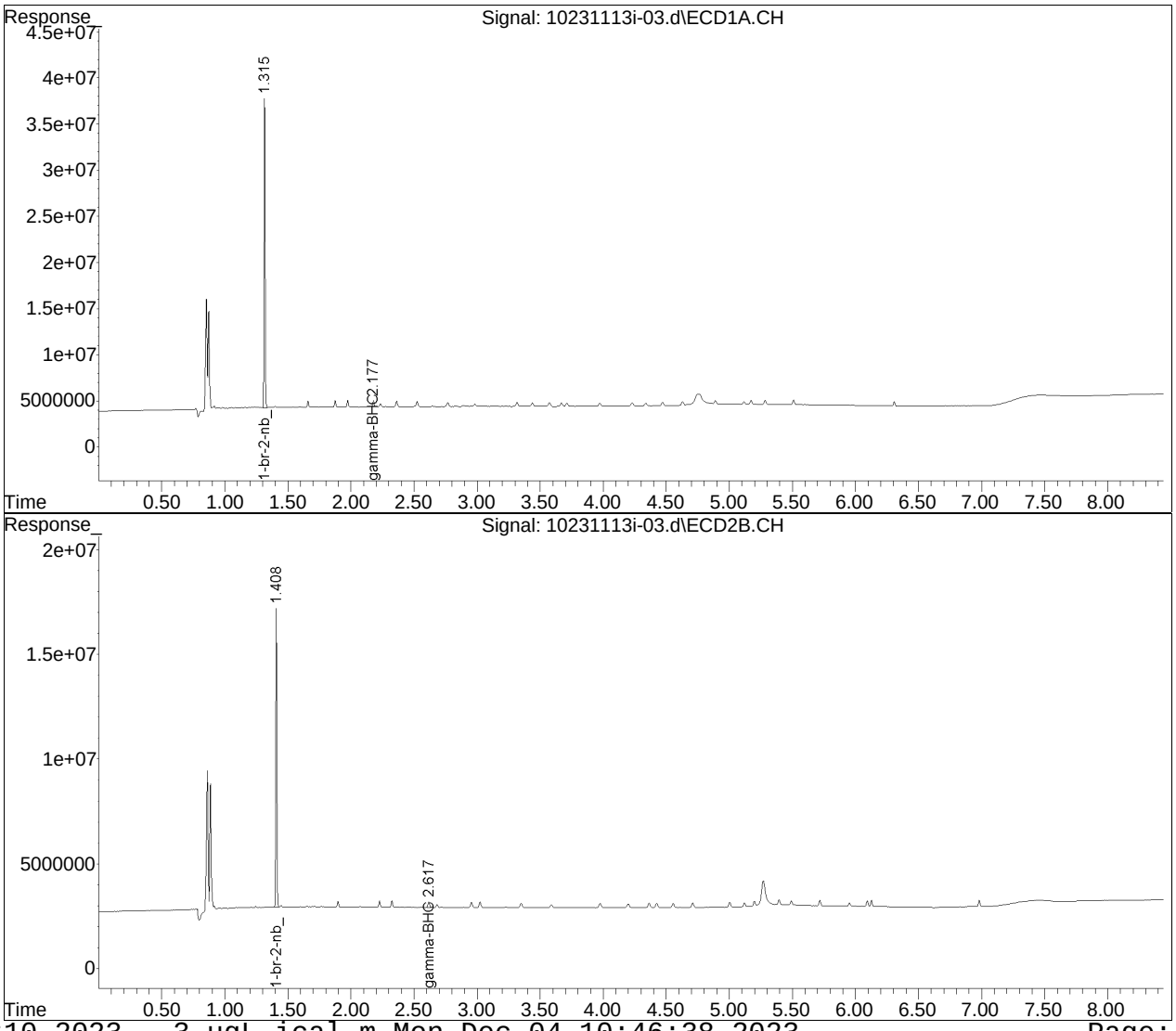
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 4:45 pm
Operator : PEST10:ejl
Sample : il1pest,42e,,pp 11406 L0.0005
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:59:56 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:59:10 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

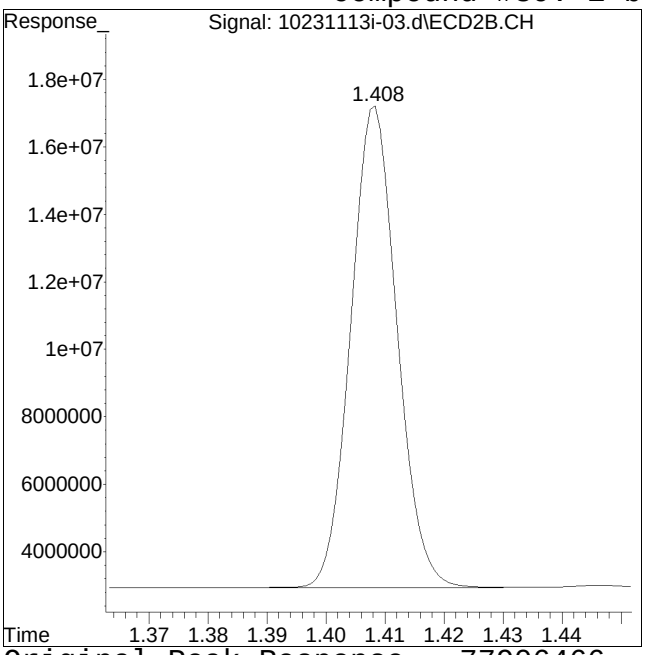
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

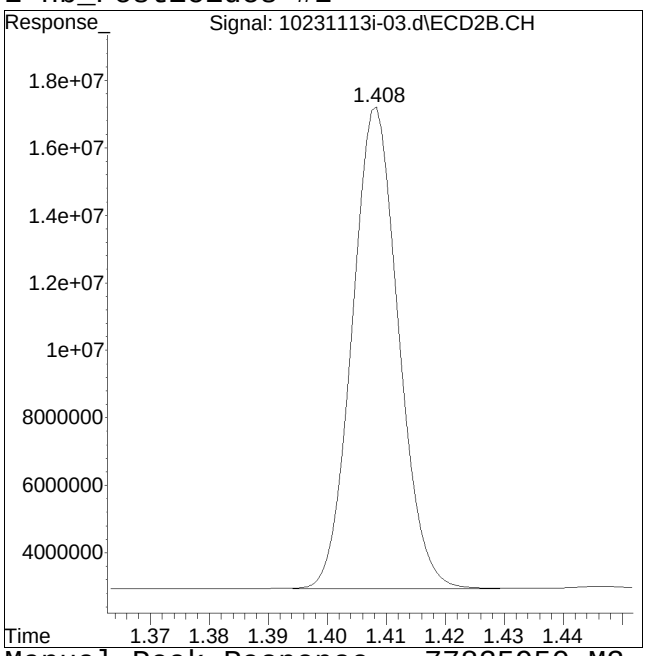


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-03.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 4:45 pm Instrument : Pest 10
Sample : il1pest,42e,,pp 11406 L0.0Quant Date : 11/14/2023 8:59 am

Compound #39: 1-br-2-nb_Pesticides #2





Original Peak Response = 77906466 Manual Peak Response = 77835950 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 4:56 pm
Operator : PEST10:ejl
Sample : il2pest,42e,,pp 11405 L0.001
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:58:51 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:56:11 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.315	1.407	178.4E6	74756627	25.000	25.000M3
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.659	1.896	7849735	3380259	1.060	1.097
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.12%#	2.19%#
27) s	Decachlorobi	6.307	6.979	8161246	4521003	1.162	1.272
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.32%#	2.54%#
	Target Compounds						
3) t	Hexachlorobe	1.874	2.225	8821258	4037726	1.120	1.128
4) t	alpha-BHC	1.974	2.323	9746241	4382294	0.956	0.958
5) t	gamma-BHC (l	2.177	2.615	9333918	4435283	0.977	1.030
6) t	beta-BHC	2.233	2.681	4952156	2323732	1.138	1.152
7) t	delta-BHC	2.362	2.953	9840852	4271012	1.008	0.973M4
8) t	Heptachlor	2.523	3.021	9680345	4891825	1.043	1.082
9) t	Aldrin	2.767	3.347	8437103	4364550	0.985	1.044
10) t	Alachlor	2.892	3.227	2199858	661976	1.102	1.066
11) t	Chlorpyrifos	2.981	3.586	5059042	3011972	1.116	1.208
12) t	Heptachlor E	3.315	3.972	8833505	4809083	1.053	1.125
13) t	gamma-Chlord	3.437	4.195	8292008	4087141	1.088	1.074
14) t	alpha-Chlord	3.572	4.362	9529495	4815019	1.072	1.125
15) t	4,4'-DDE	3.668	4.553	8112512	4030230	0.978	0.997
16) t	Endosulfan I	3.711	4.422	8479280	4530193	1.049	1.126
17) t	Dieldrin	3.972	4.707	8385269	4289893	1.012	1.060
18) t	Endrin	4.227	5.001	8641240	4447355	1.001M4	1.058
19) t	4,4'-DDD	4.335	5.118	6591522	3395531	0.963	1.023
20) t	Endosulfan I	4.469	5.196	8158355	4575520	1.043	1.178M4
21) t	4,4'-DDT	4.628	5.392	7734021	3999781	0.988M4	1.047M4
22) t	Endrin Aldeh	4.888	5.490	6696404	3548601	1.043M4	1.126M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 4:56 pm
Operator : PEST10:ejl
Sample : il2pest,42e,,pp 11405 L0.001
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:58:51 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:56:11 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	5.115	5.950	4953130	2714752	1.117	1.255
24) t	Mirex	5.170	6.091	7971488	4760492	1.144M4	1.344
25) t	Endosulfan S	5.282	5.716	8250145	4451173	1.082	1.174
26) t	Endrin Keton	5.508	6.125	9265296	4748380	1.063	1.142
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

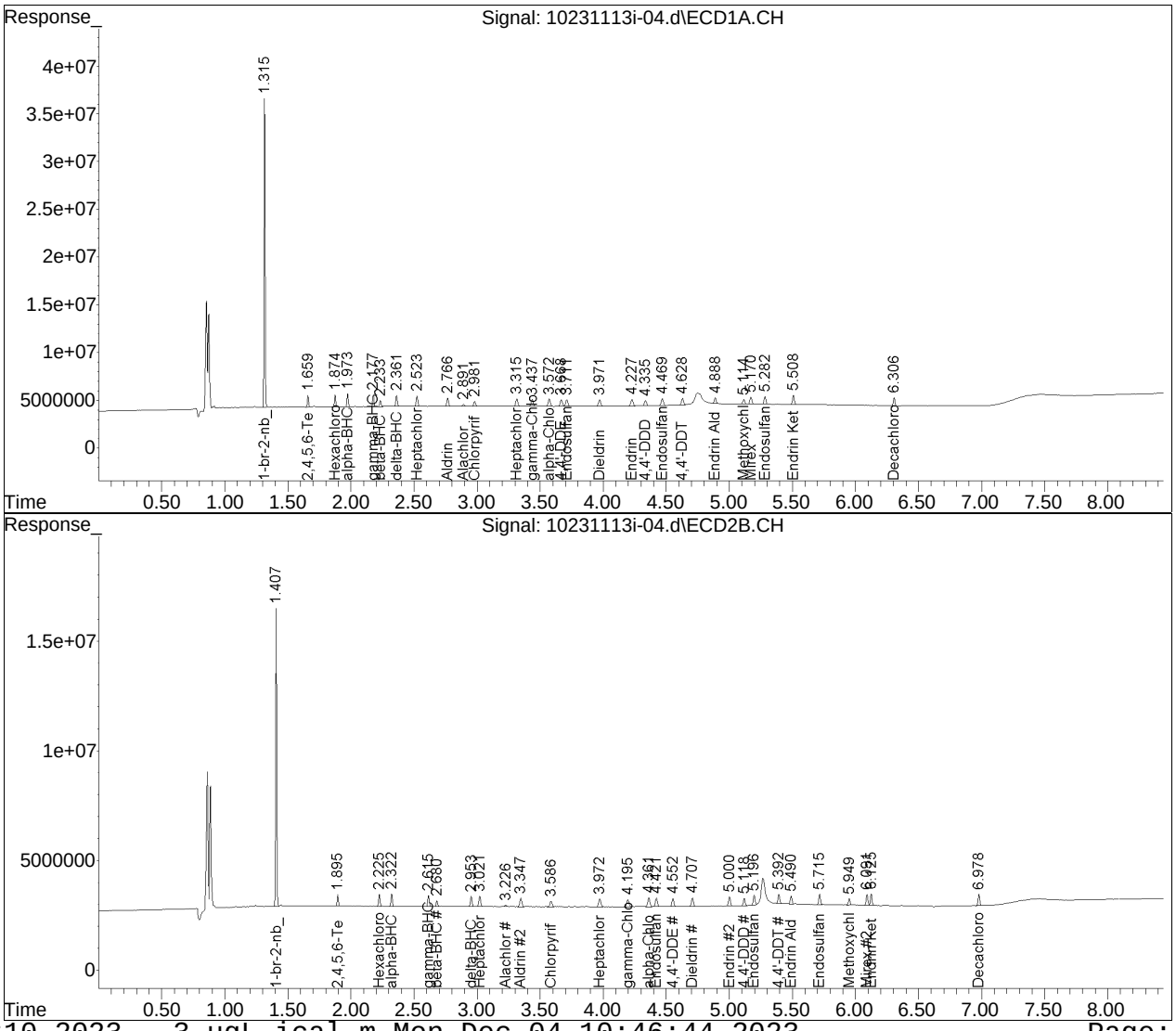
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 4:56 pm
Operator : PEST10:ejl
Sample : il2pest,42e,,pp 11405 L0.001
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:58:51 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:56:11 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

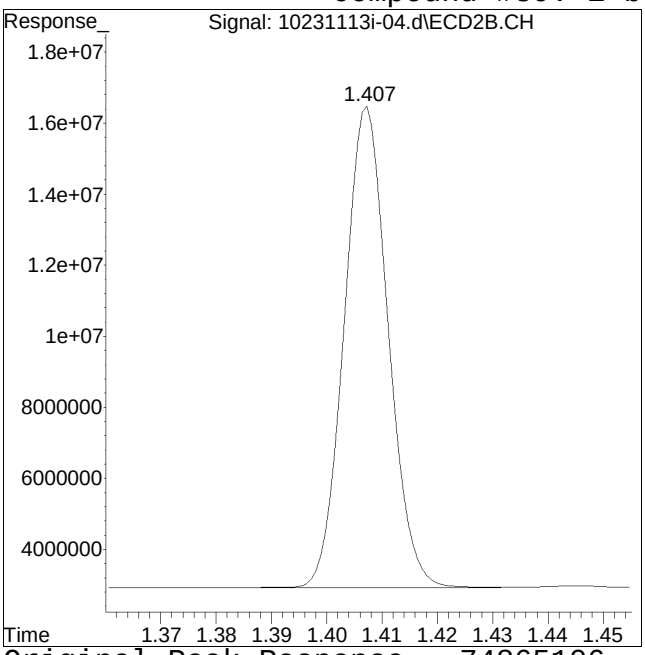
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

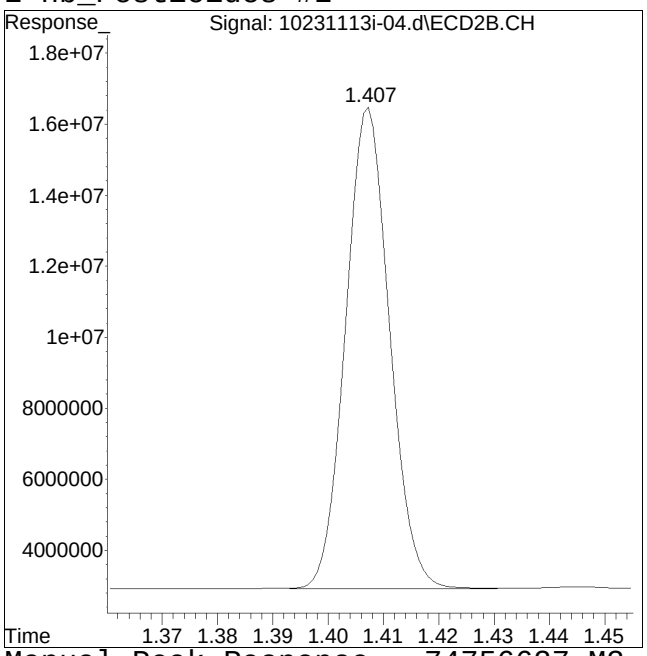


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-04.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 4:56 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 11/14/2023 8:56 am

Compound #39: 1-br-2-nb_Pesticides #2



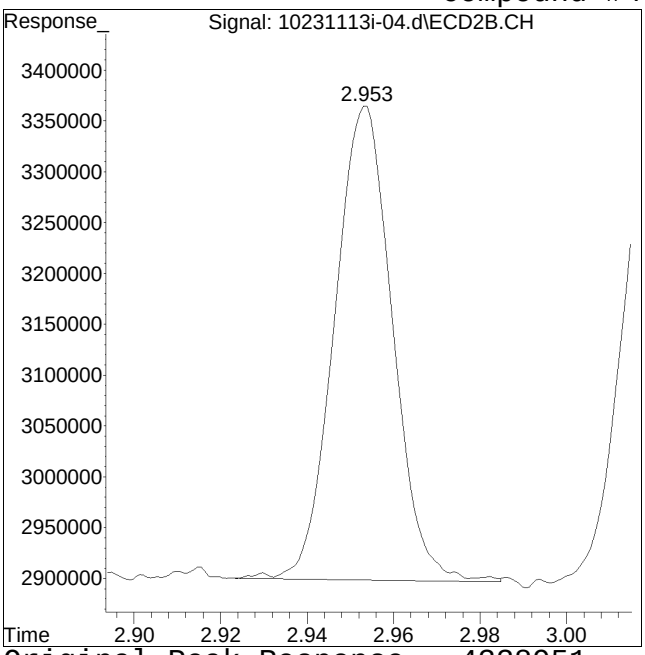


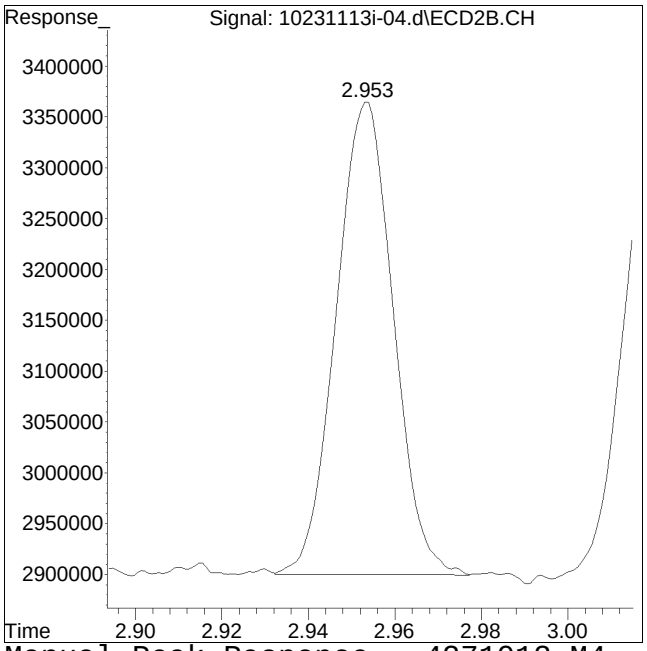
Original Peak Response = 74865106 Manual Peak Response = 74756627 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-04.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 4:56 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 11/14/2023 8:56 am

Compound #45: delta-BHC #2





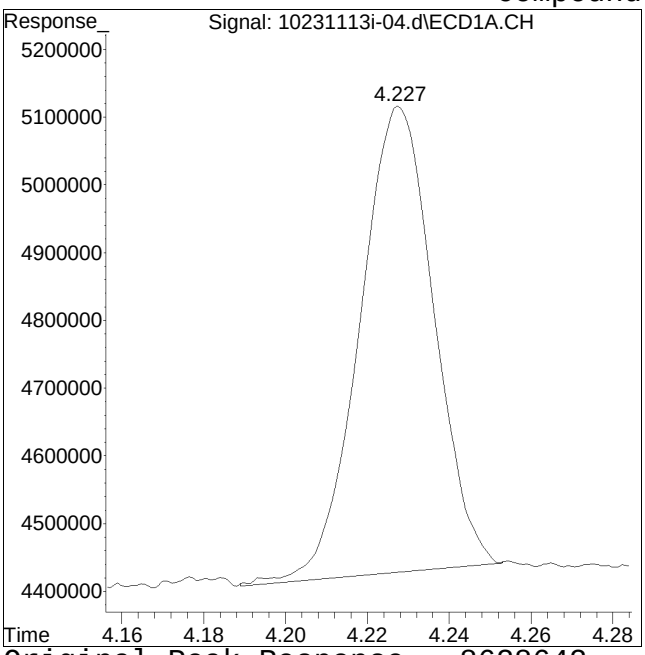
Original Peak Response = 4338951 Manual Peak Response = 4271012 M4
M4 = Poor automated baseline construction.

Manual Integration Report

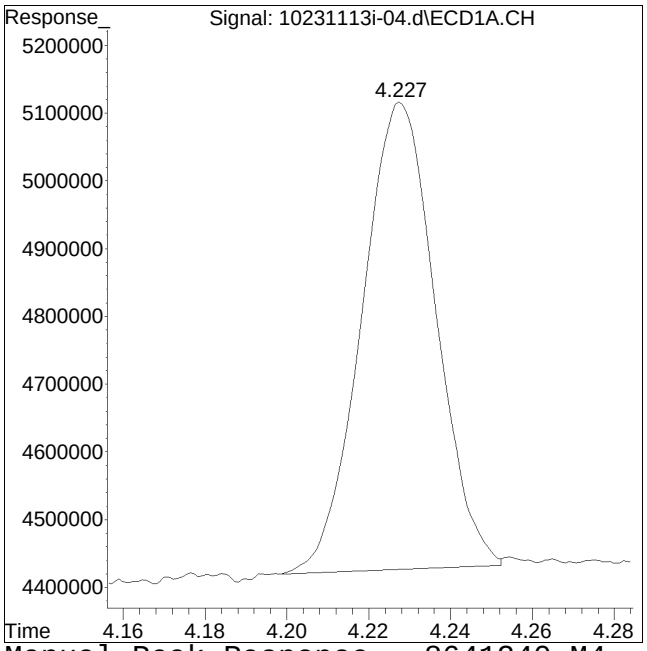
Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-04.d
Date Inj'd : 11/13/2023 4:56 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 8:56 am

Compound #18: Endrin



Original Peak Response = 8628642



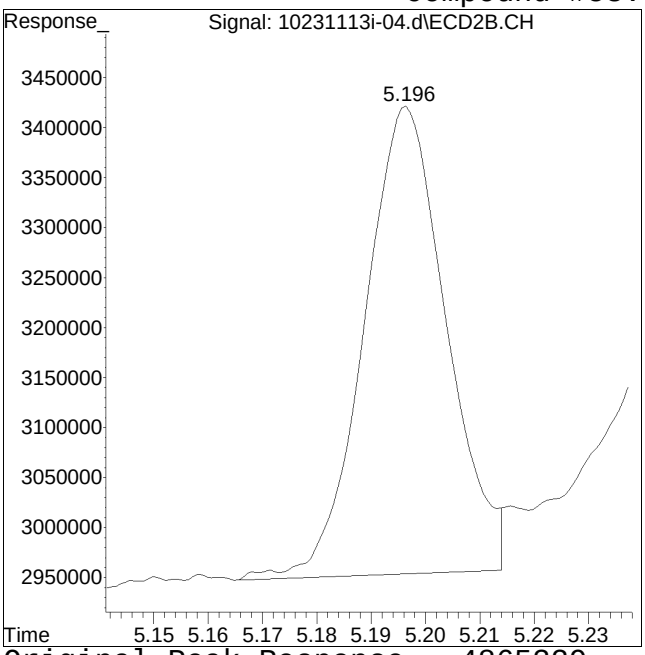
Manual Peak Response = 8641240 M4

M4 = Poor automated baseline construction.

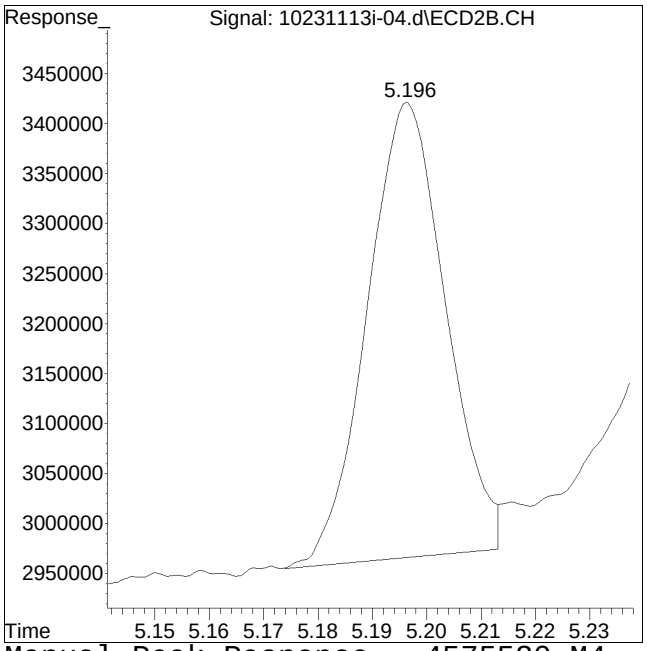
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-04.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 4:56 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 11/14/2023 8:56 am

Compound #58: Endosulfan II #2



Original Peak Response = 4865329



Manual Peak Response = 4575520 M4

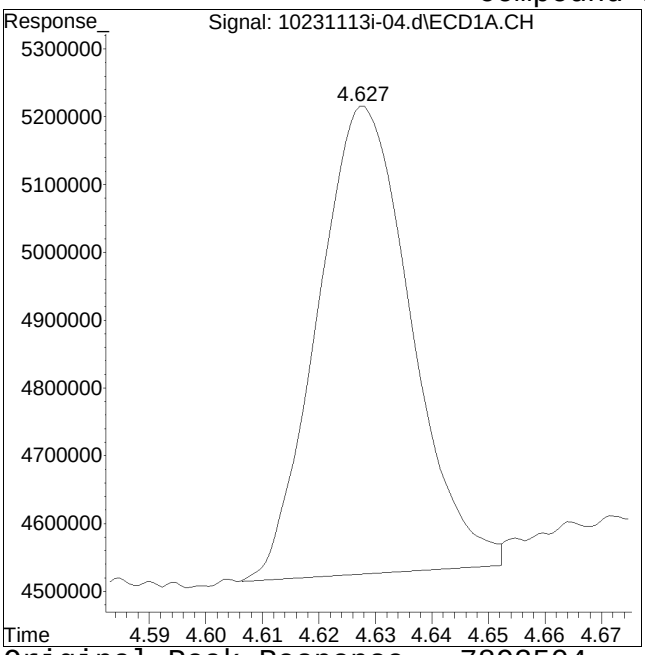
M4 = Poor automated baseline construction.

Manual Integration Report

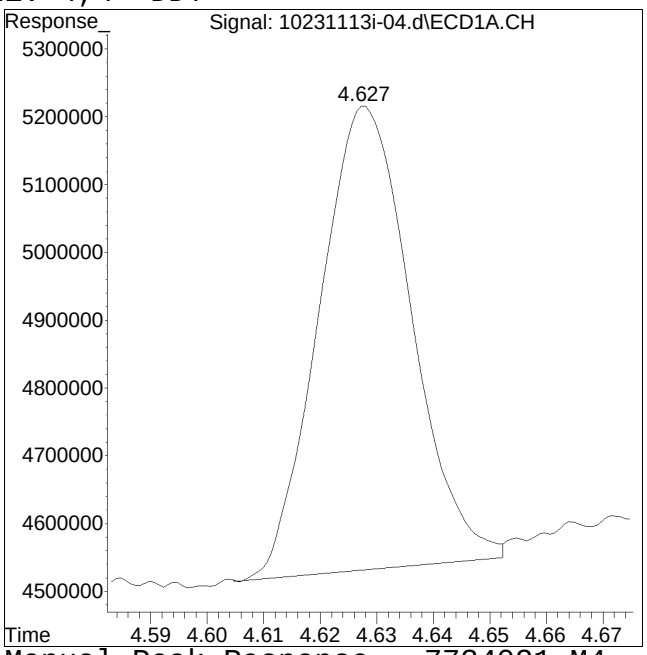
Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-04.d
Date Inj'd : 11/13/2023 4:56 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 8:56 am

Compound #21: 4,4'-DDT



Original Peak Response = 7893504



Manual Peak Response = 7734021 M4

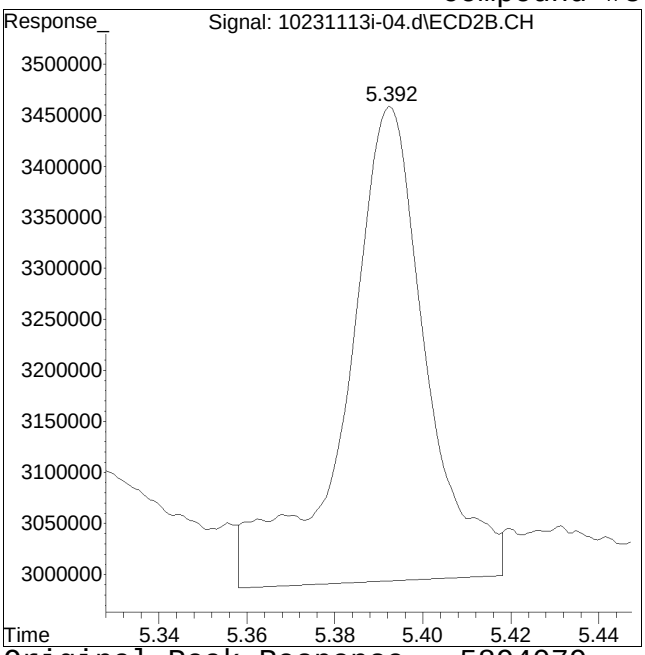
M4 = Poor automated baseline construction.

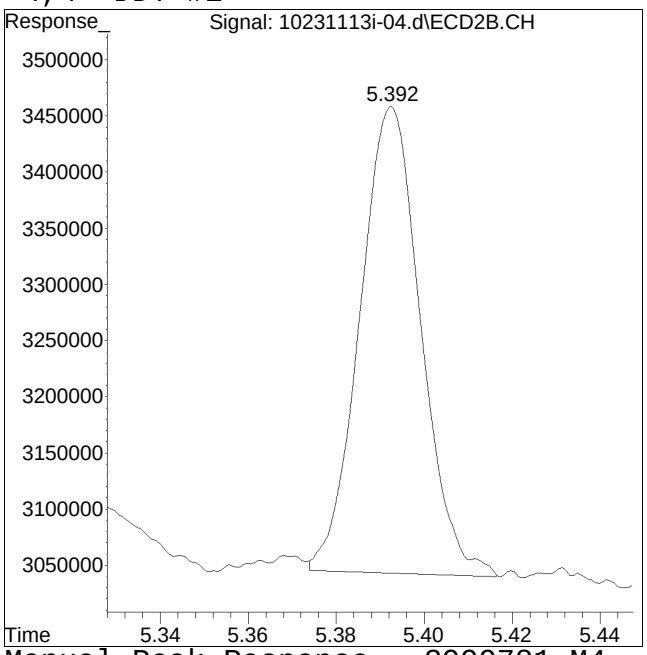
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-04.d
Date Inj'd : 11/13/2023 4:56 pm
Sample : il2pest,42e,,pp 11405 L0.0

Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 8:56 am

Compound #59: 4,4'-DDT #2



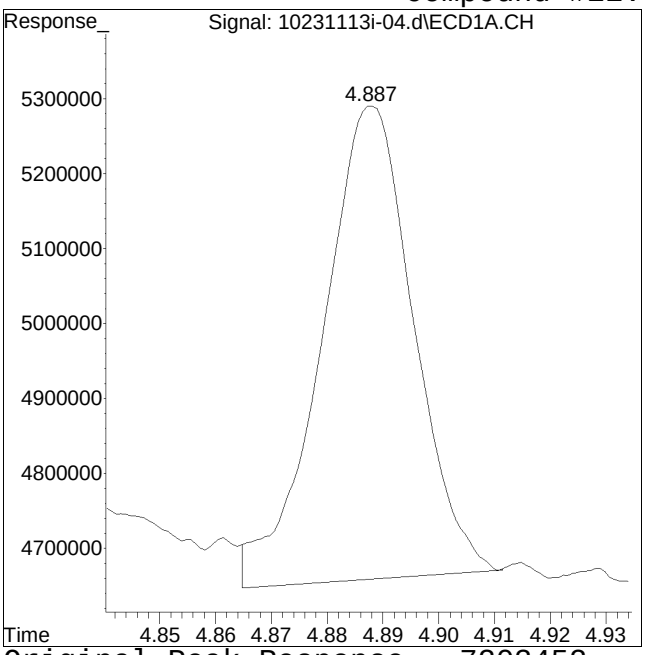


Original Peak Response = 5894079 Manual Peak Response = 3999781 M4
M4 = Poor automated baseline construction.

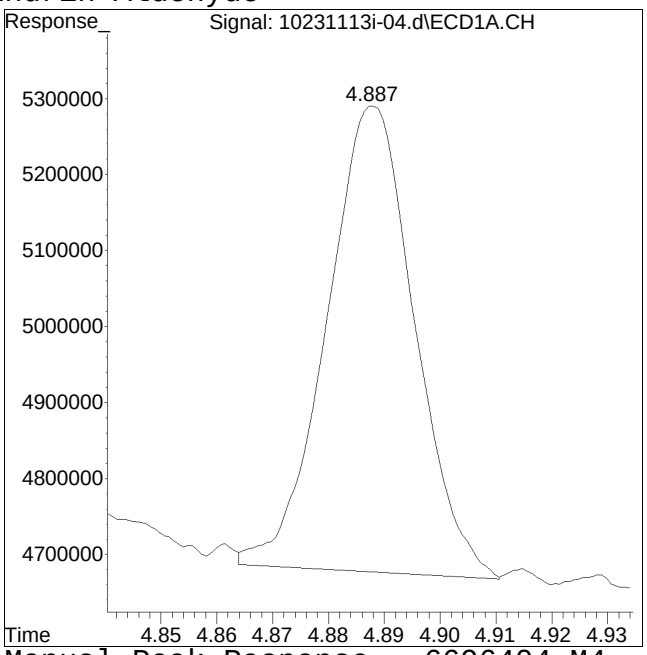
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-04.d
Date Inj'd : 11/13/2023 4:56 pm
Sample : il2pest,42e,,pp 11405 L0.0
Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 8:56 am

Compound #22: Endrin Aldehyde



Original Peak Response = 7203452



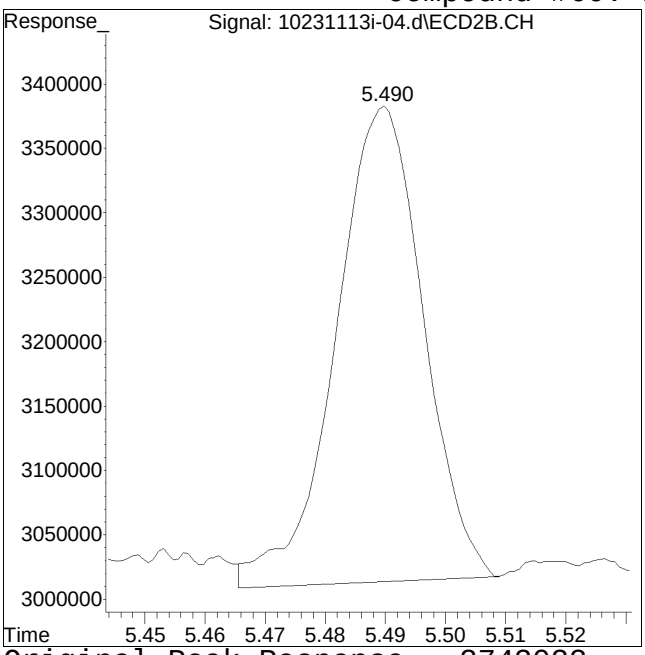
Manual Peak Response = 6696404 M4

M4 = Poor automated baseline construction.

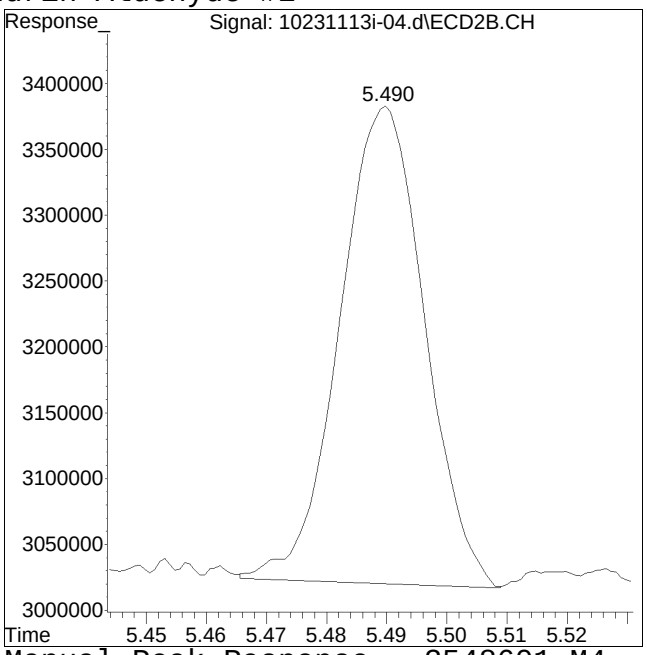
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-04.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 4:56 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 11/14/2023 8:56 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 3743023



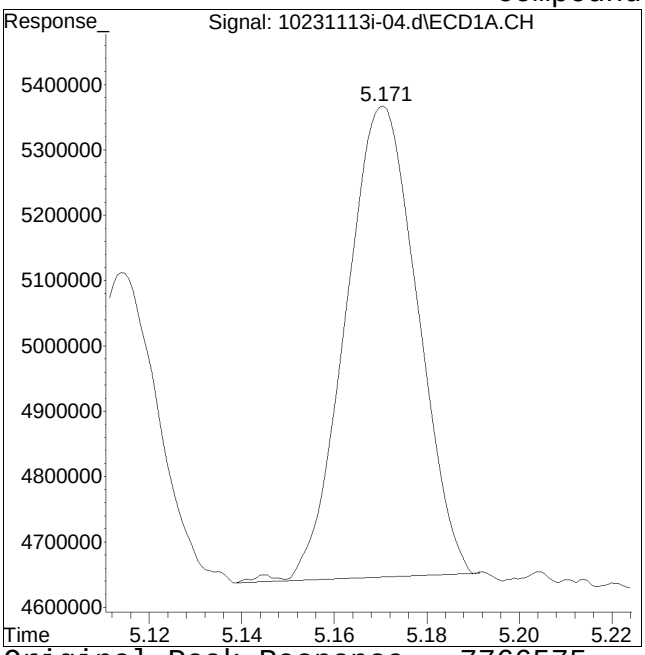
Manual Peak Response = 3548601 M4

M4 = Poor automated baseline construction.

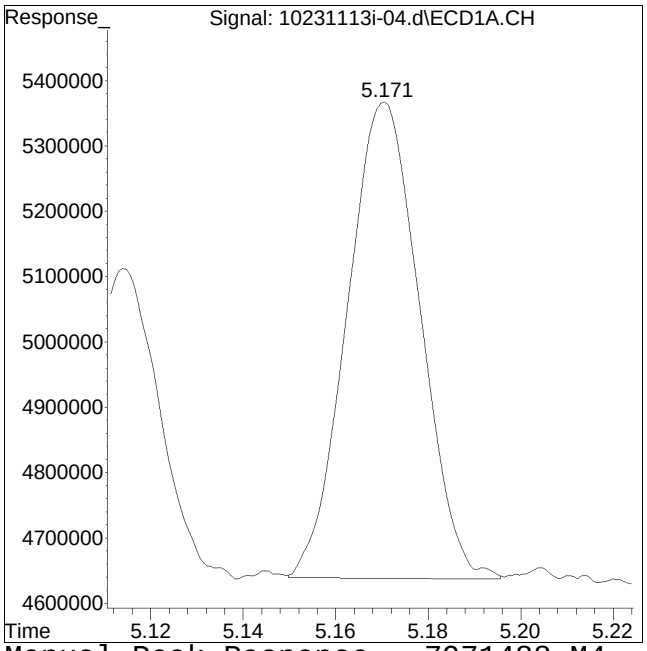
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-04.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 4:56 pm Instrument : Pest 10
Sample : il2pest,42e,,pp 11405 L0.0Quant Date : 11/14/2023 8:56 am

Compound #24: Mirex



Original Peak Response = 7766575



Manual Peak Response = 7971488 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:07 pm
Operator : PEST10:ejl
Sample : il3pest,42e,,pp 11404 L0.002
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:55:46 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:52:54 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.315	1.408	176.8E6	75844609	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.659	1.896	16605761	6821704	2.306M4	2.211
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.61%#	4.42%#
27) s	Decachlorobi	6.307	6.979	16825250	9123907	2.492	2.629
	Spiked Amount 50.000	Range 30 - 150		Recovery =		4.98%#	5.26%#
	Target Compounds						
3) t	Hexachlorobe	1.874	2.226	17349939	8356948	2.259M4	2.351
4) t	alpha-BHC	1.974	2.324	19485114	9031678	1.919M4	1.939
5) t	gamma-BHC (l	2.177	2.616	18865781	8887921	1.992M3	2.039
6) t	beta-BHC	2.234	2.682	9566945	4658827	2.254	2.322
7) t	delta-BHC	2.362	2.955	18931937	8685951	1.951	1.944
8) t	Heptachlor	2.524	3.023	19665737	9965289	2.158M4	2.200
9) t	Aldrin	2.767	3.349	17678894	8995390	2.094	2.139
10) t	Alachlor	2.892	3.226	4343982	1371698	2.232	2.209
11) t	Chlorpyrifos	2.982	3.588	10421819	6155935	2.384	2.525
12) t	Heptachlor E	3.315	3.974	18136286	10010109	2.209	2.359
13) t	gamma-Chlord	3.438	4.197	16195187	8526955	2.166	2.241
14) t	alpha-Chlord	3.573	4.363	19859054	9746836	2.295	2.285
15) t	4,4'-DDE	3.668	4.554	16885732	8480403	2.062M4	2.079
16) t	Endosulfan I	3.711	4.424	17474290	9201480	2.209M4	2.296
17) t	Dieldrin	3.972	4.709	17115008	8718091	2.098	2.142
18) t	Endrin	4.228	5.002	17971220	9293497	2.116	2.208
19) t	4,4'-DDD	4.336	5.120	13814530	7105005	2.043	2.127
20) t	Endosulfan I	4.469	5.198	16919985	8914380	2.211	2.305M4
21) t	4,4'-DDT	4.628	5.394	16338262	8242658	2.123	2.146M4
22) t	Endrin Aldeh	4.888	5.492	13535850	6911641	2.147M4	2.186
23) t	Methoxychlor	5.115	5.952	10163919	5224286	2.366	2.447

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:07 pm
Operator : PEST10:ejl
Sample : il3pest,42e,,pp 11404 L0.002
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:55:46 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:52:54 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	5.171	6.093	16400692	9177902	2.440	2.659
25) t	Endosulfan S	5.283	5.717	16494290	8890527	2.211	2.364
26) t	Endrin Keton	5.509	6.127	19025314	9591794	2.235	2.319
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

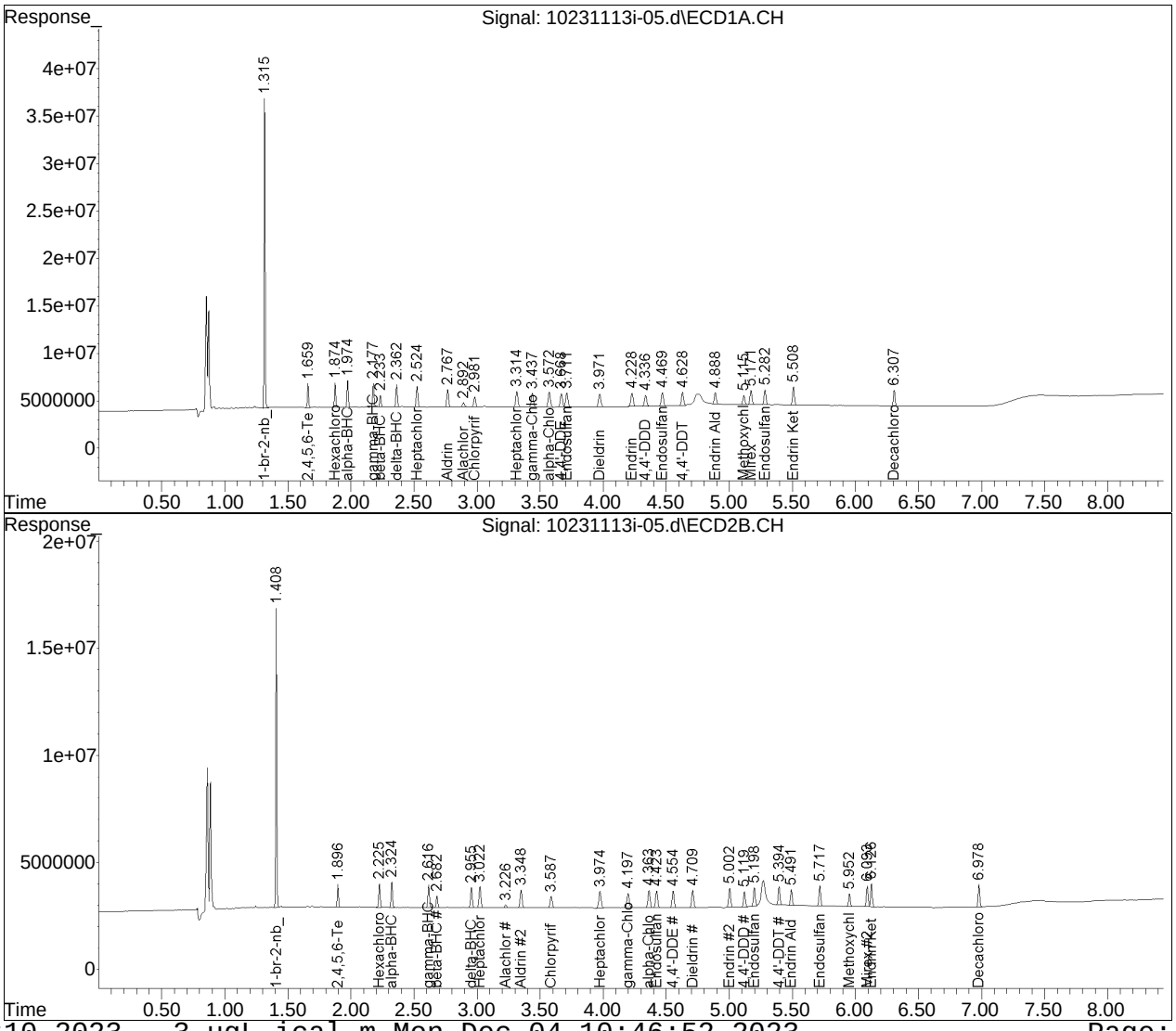
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:07 pm
Operator : PEST10:ejl
Sample : il3pest,42e,,pp 11404 L0.002
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:55:46 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:52:54 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

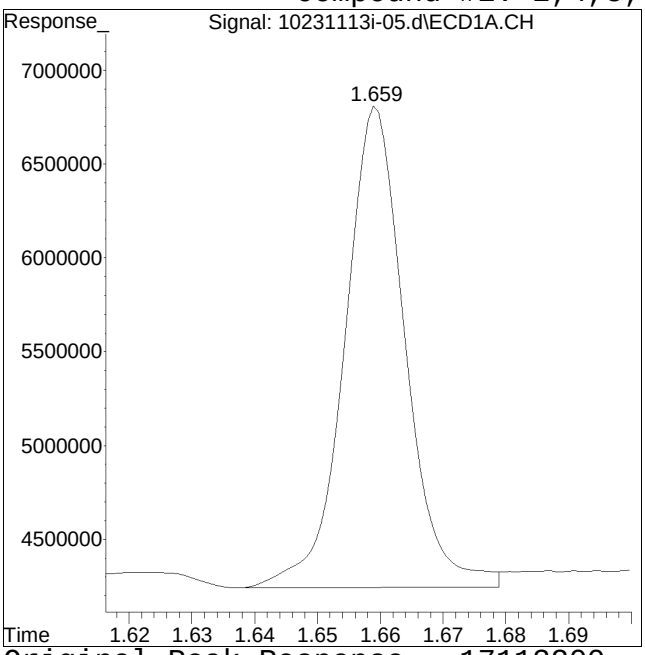
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



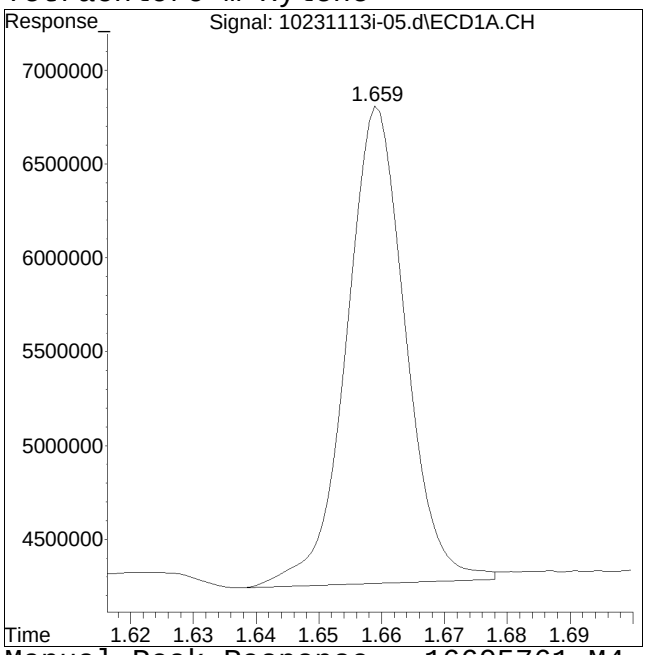
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-05.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:07 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 11/14/2023 8:53 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 17113200



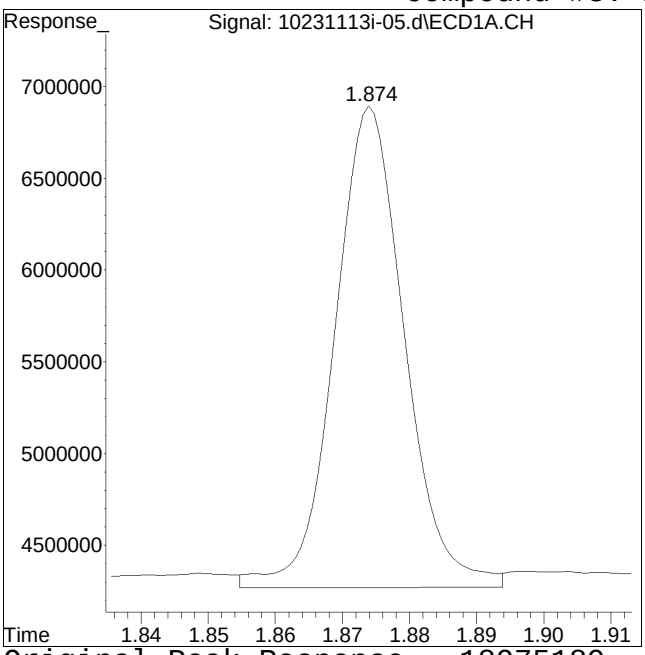
Manual Peak Response = 16605761 M4

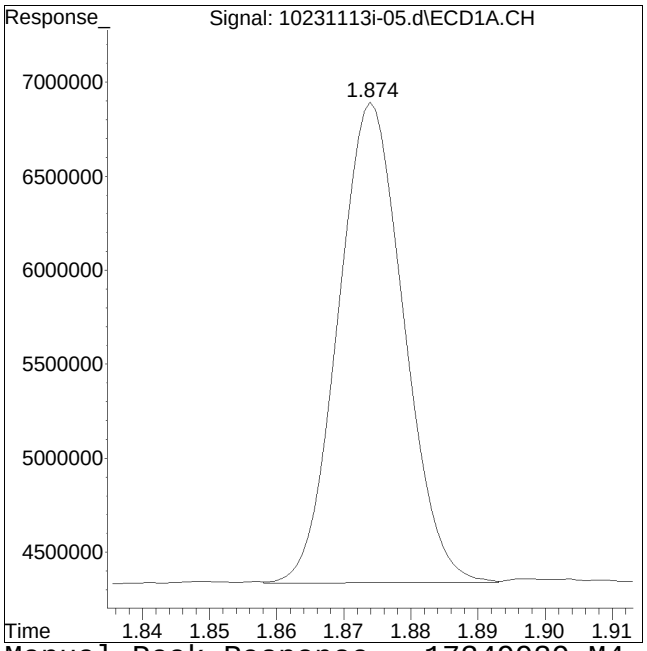
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-05.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:07 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 11/14/2023 8:53 am

Compound #3: Hexachlorobenzene



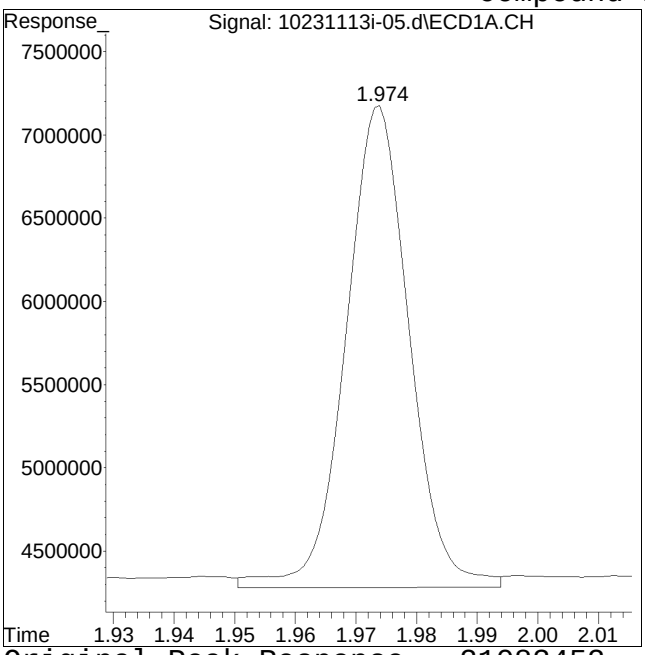


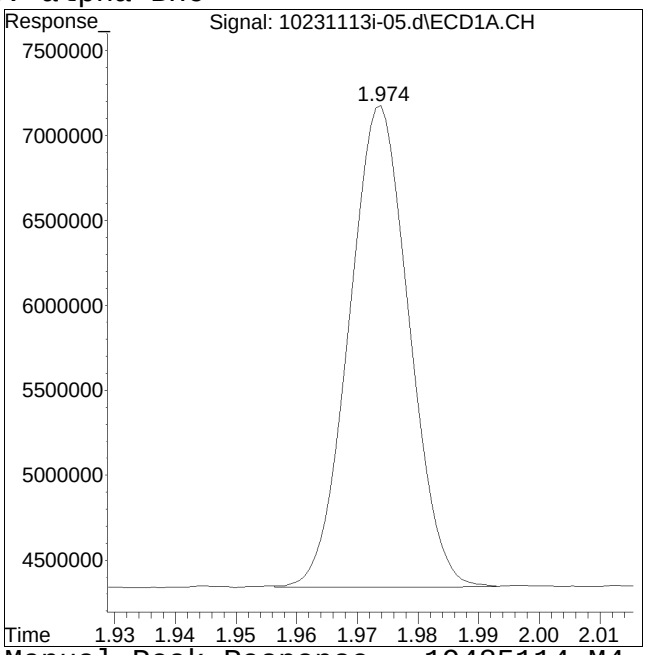
Original Peak Response = 18975189 Manual Peak Response = 17349939 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-05.d
Date Inj'd : 11/13/2023 5:07 pm
Sample : il3pest,42e,,pp 11404 L0.0
Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 8:53 am

Compound #4: alpha-BHC



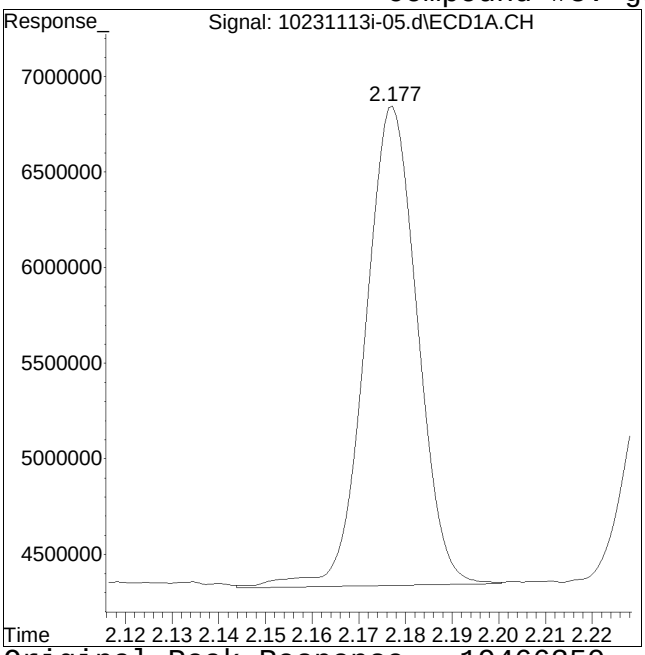


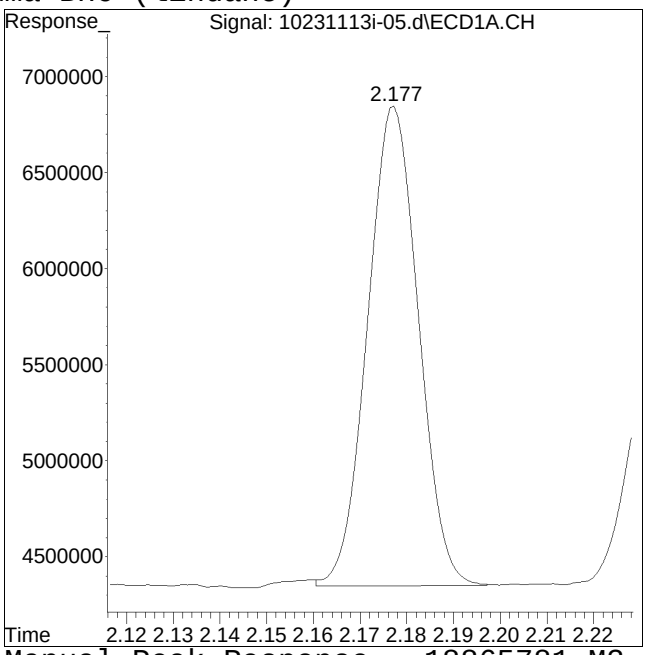
Original Peak Response = 21083452 Manual Peak Response = 19485114 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-05.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:07 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 11/14/2023 8:53 am

Compound #5: gamma-BHC (lindane)



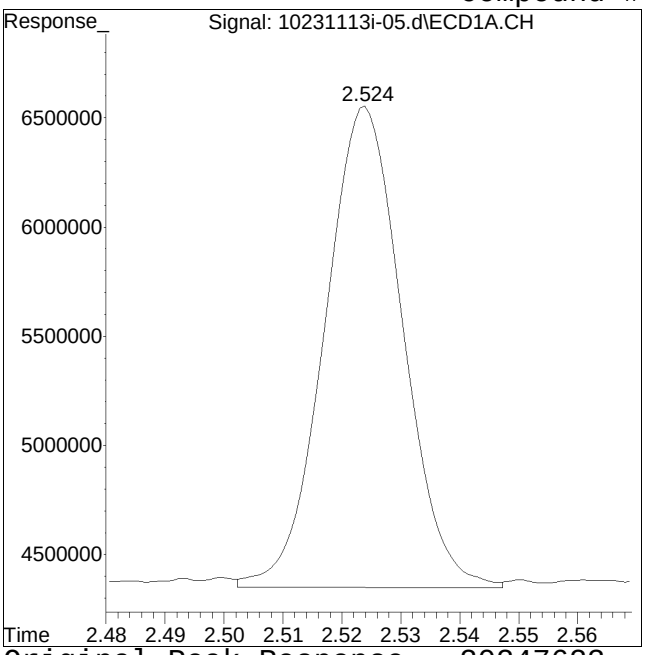


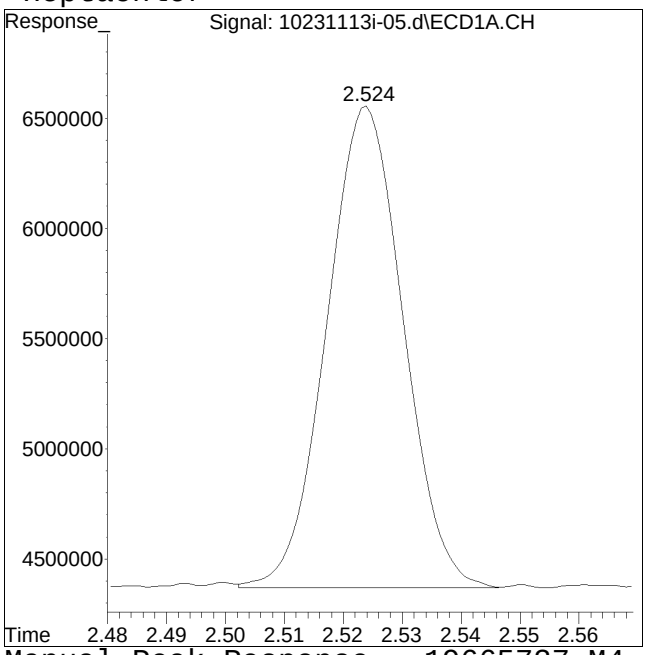
Original Peak Response = 19466350 Manual Peak Response = 18865781 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-05.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:07 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 11/14/2023 8:53 am

Compound #8: Heptachlor





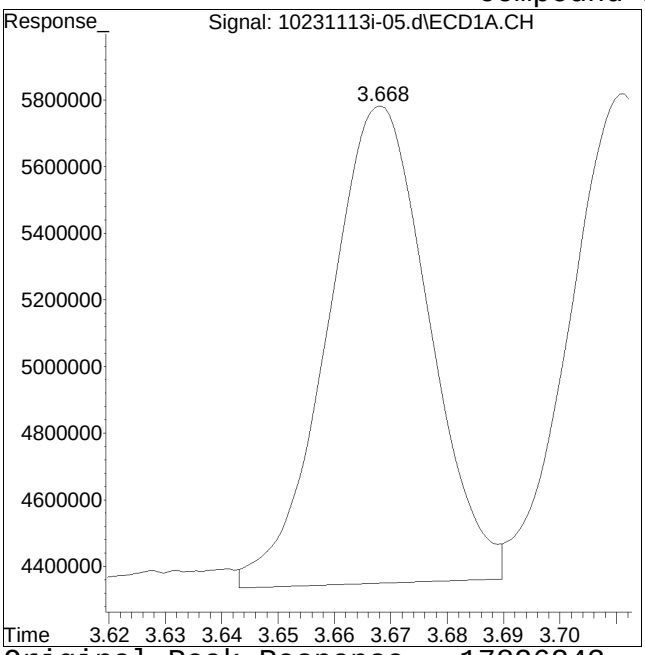
Original Peak Response = 20247623 Manual Peak Response = 19665737 M4
M4 = Poor automated baseline construction.

Manual Integration Report

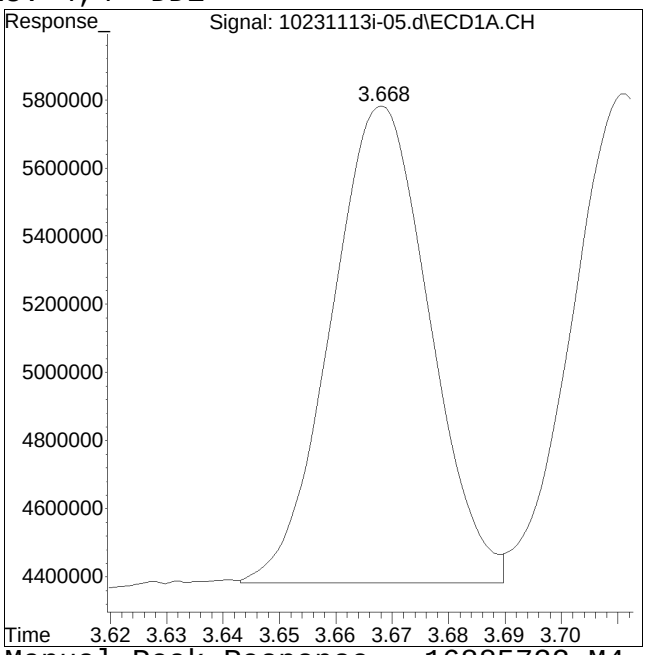
Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-05.d
Date Inj'd : 11/13/2023 5:07 pm
Sample : il3pest,42e,,pp 11404 L0.0

Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 8:53 am

Compound #15: 4,4'-DDE



Original Peak Response = 17826243



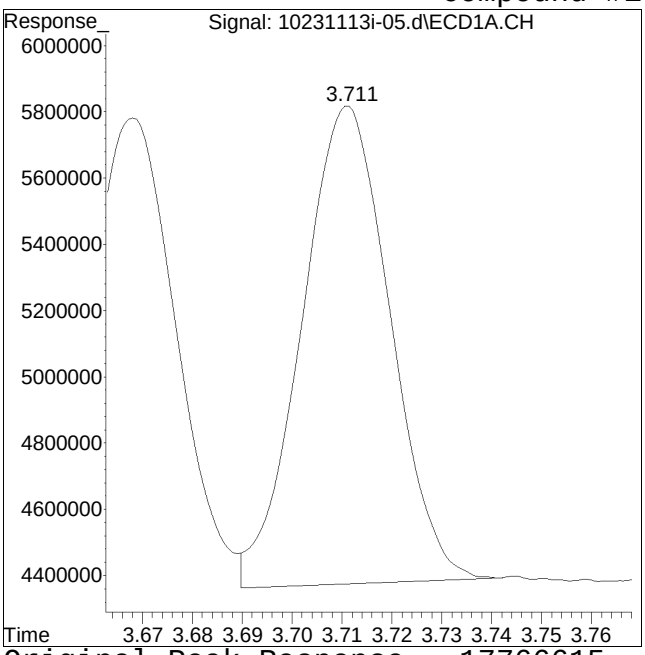
Manual Peak Response = 16885732 M4

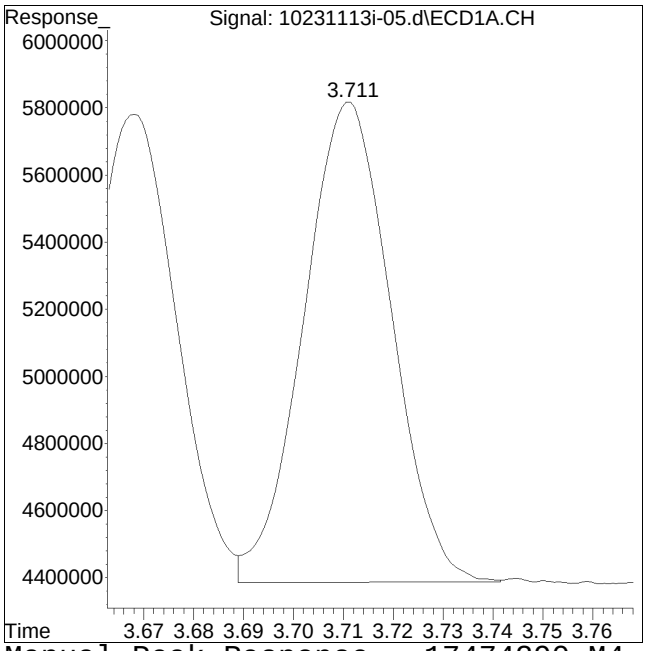
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-05.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:07 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 11/14/2023 8:53 am

Compound #16: Endosulfan I



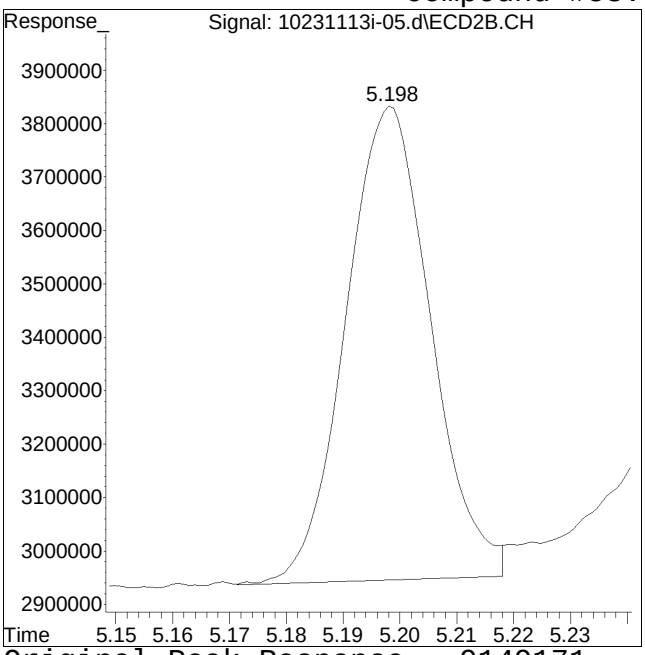


Original Peak Response = 17766615 Manual Peak Response = 17474290 M4
M4 = Poor automated baseline construction.

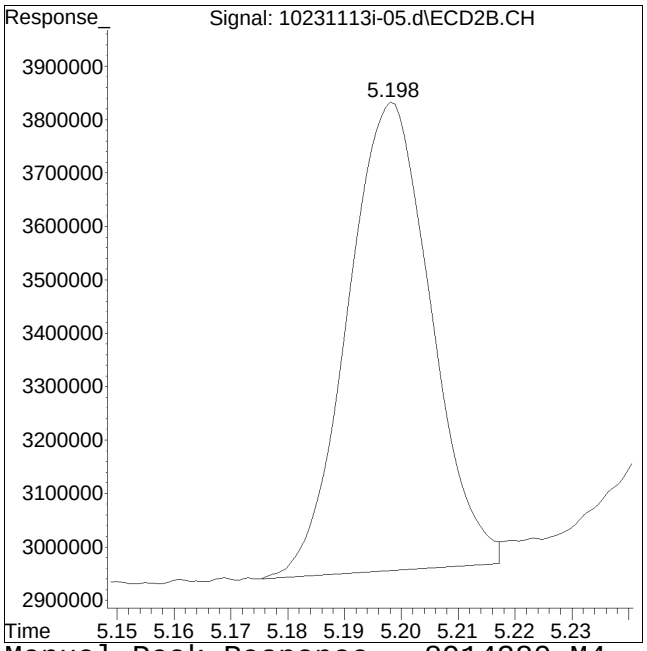
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-05.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:07 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 11/14/2023 8:53 am

Compound #58: Endosulfan II #2



Original Peak Response = 9149171



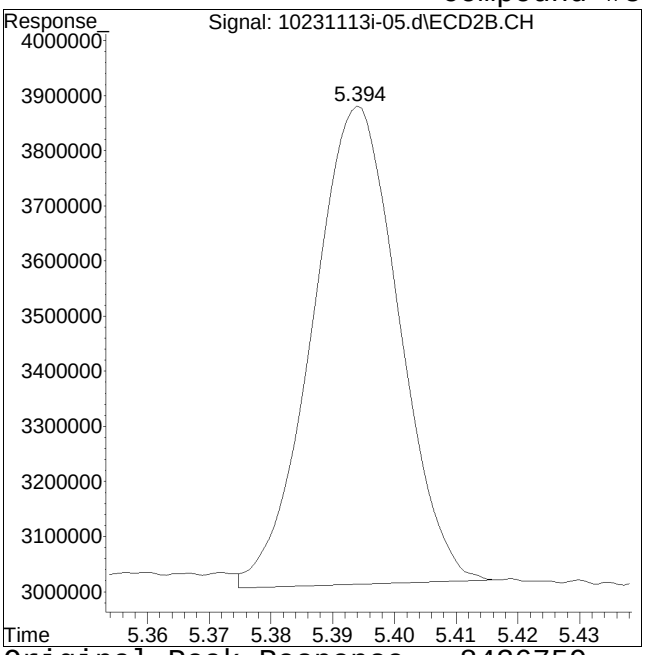
Manual Peak Response = 8914380 M4

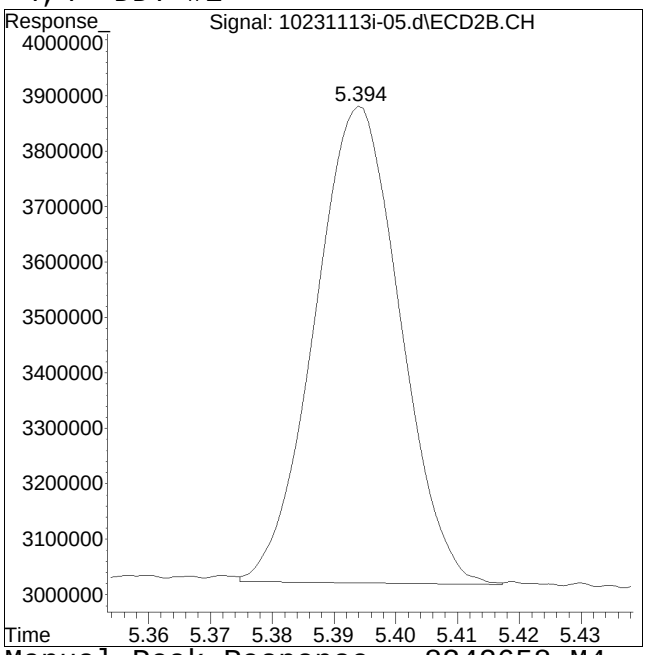
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-05.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:07 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 11/14/2023 8:53 am

Compound #59: 4,4'-DDT #2



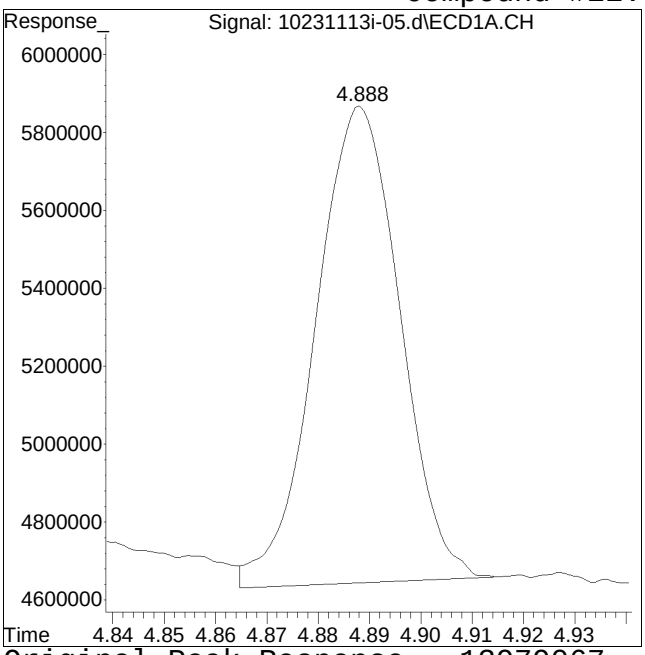


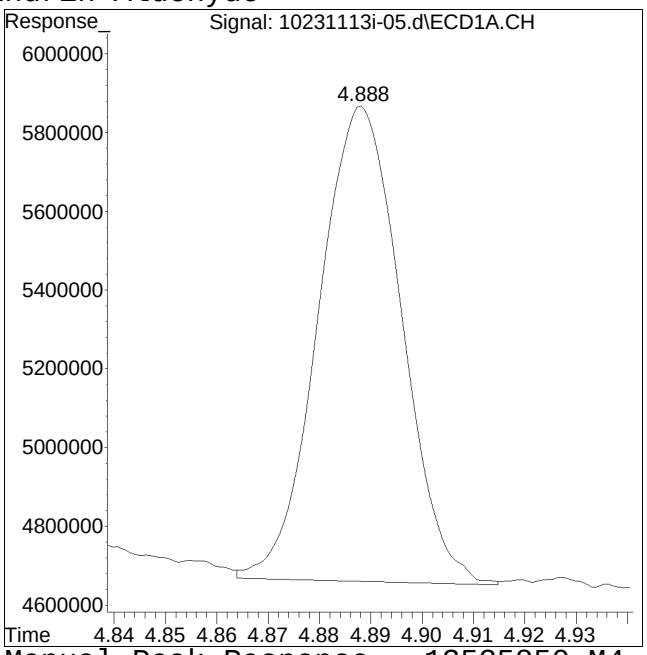
Original Peak Response = 8436759 Manual Peak Response = 8242658 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-05.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:07 pm Instrument : Pest 10
Sample : il3pest,42e,,pp 11404 L0.0Quant Date : 11/14/2023 8:53 am

Compound #22: Endrin Aldehyde





Original Peak Response = 13979067 Manual Peak Response = 13535850 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:18 pm
Operator : PEST10:ejl
Sample : il4pest,42e,,pp 11403 L0.003
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:52:44 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:50:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.315	1.408	178.5E6	76424034	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.660	1.897	24003038	10028930	3.358	3.268
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.72%#	6.54%#
27) s	Decachlorobi	6.307	6.979	24108911	13434272	3.646	4.030
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.29%#	8.06%#
	Target Compounds						
3) t	Hexachlorobe	1.874	2.226	25290435	12069402	3.310	3.441
4) t	alpha-BHC	1.974	2.324	29188938	13328951	2.823M4	2.815
5) t	gamma-BHC (l	2.177	2.616	28205224	13007526	2.941	2.955
6) t	beta-BHC	2.234	2.682	14120225	6815925	3.350	3.442
7) t	delta-BHC	2.362	2.955	28089658	13006934	2.847	2.871
8) t	Heptachlor	2.524	3.023	29152286	14566880	3.198	3.226
9) t	Aldrin	2.767	3.349	26027812	13158232	3.062	3.124
10) t	Alachlor	2.892	3.227	6401671	2009197	3.314	3.257
11) t	Chlorpyrifos	2.982	3.588	15570835	8859534	3.656	3.758
12) t	Heptachlor E	3.315	3.974	26722479	14242569	3.265M4	3.394
13) t	gamma-Chlord	3.438	4.197	24075436	12400391	3.224M4	3.278
14) t	alpha-Chlord	3.573	4.363	28949801	14267287	3.373	3.380
15) t	4,4'-DDE	3.668	4.554	25171585	12576304	3.052M4	3.070
16) t	Endosulfan I	3.711	4.423	25922972	13464613	3.291M4	3.397
17) t	Dieldrin	3.973	4.709	25480958	12990289	3.110	3.197
18) t	Endrin	4.228	5.002	26863772	13437957	3.156	3.198M4
19) t	4,4'-DDD	4.336	5.119	21076368	10413277	3.102	3.110
20) t	Endosulfan I	4.469	5.197	24843772	13039804	3.255	3.411M4
21) t	4,4'-DDT	4.629	5.393	24541754	12399990	3.187	3.241M4
22) t	Endrin Aldeh	4.888	5.491	20009042	10247002	3.170M4	3.256
23) t	Methoxychlor	5.115	5.952	15438797	8028526	3.674	3.890

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:18 pm
Operator : PEST10:ejl
Sample : il4pest,42e,,pp 11403 L0.003
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:52:44 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:50:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	5.171	6.093	24468045	13533088	3.732	4.093
25) t	Endosulfan S	5.283	5.717	25041671	12927564	3.385	3.491
26) t	Endrin Keton	5.509	6.127	28294850	14128267	3.347	3.465
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

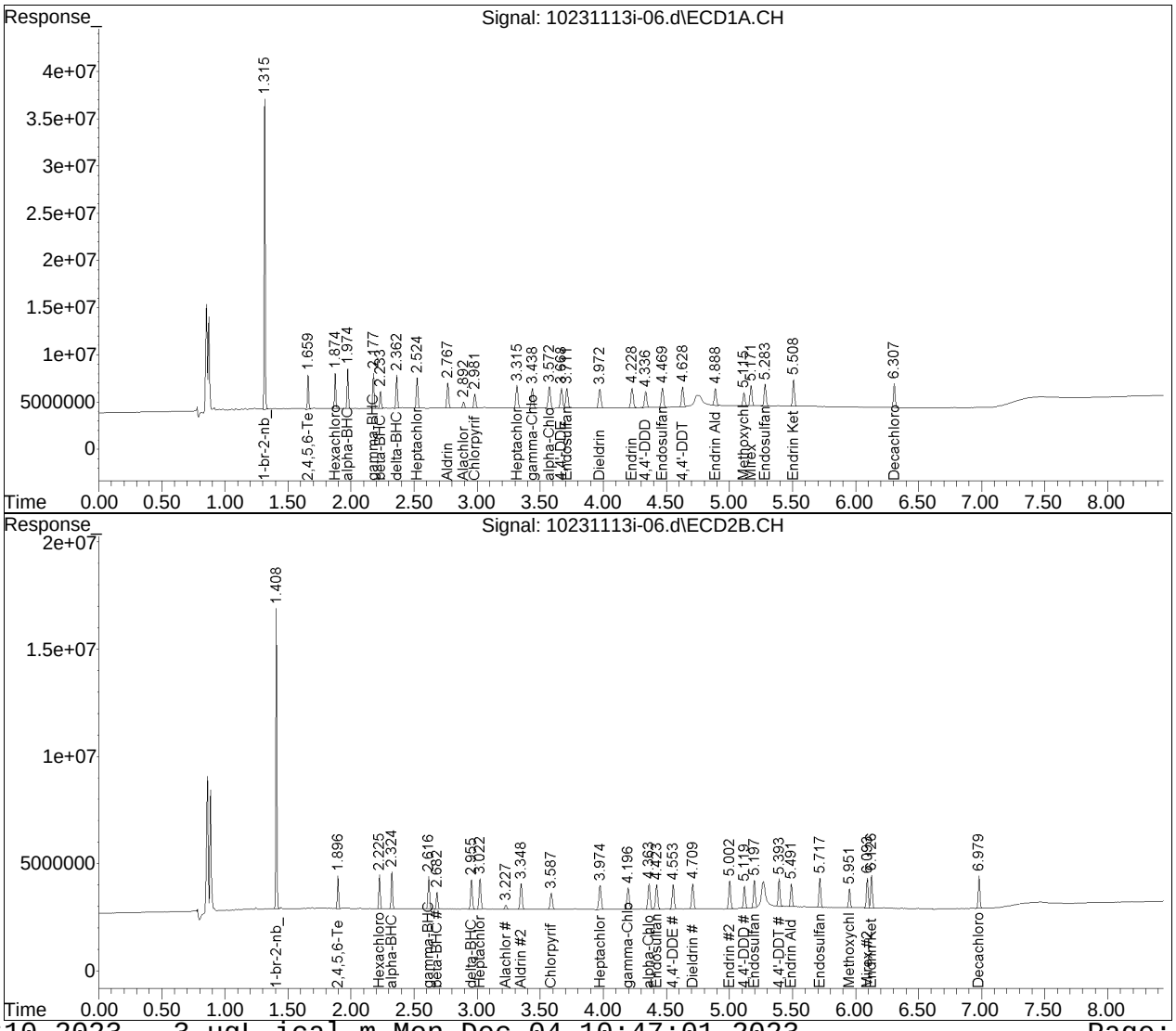
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:18 pm
Operator : PEST10:ejl
Sample : il4pest,42e,,pp 11403 L0.003
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:52:44 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:50:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

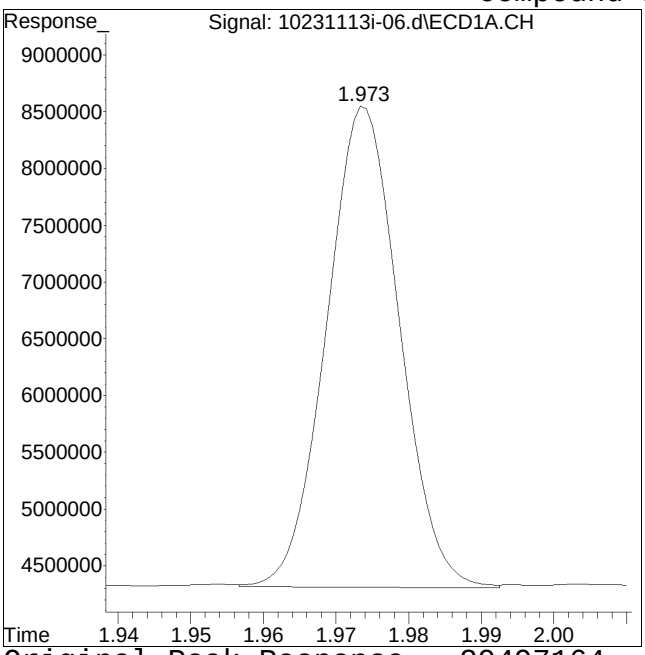
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

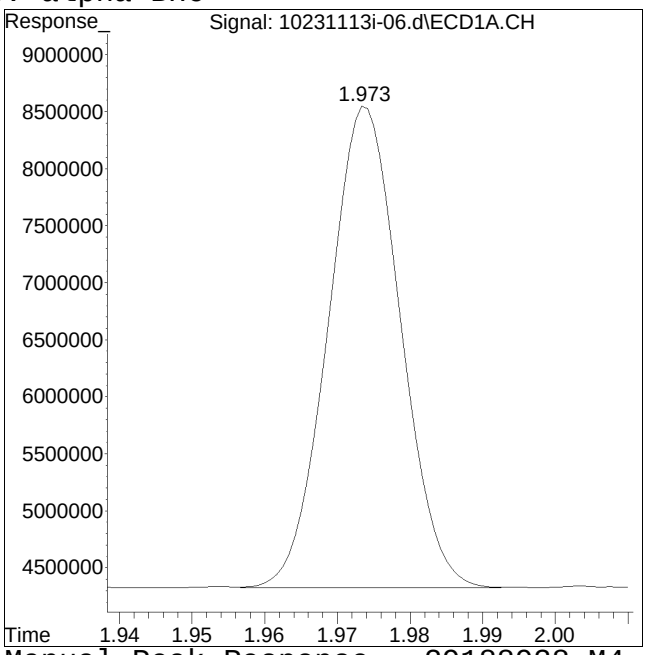


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-06.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:18 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 11/14/2023 8:50 am

Compound #4: alpha-BHC



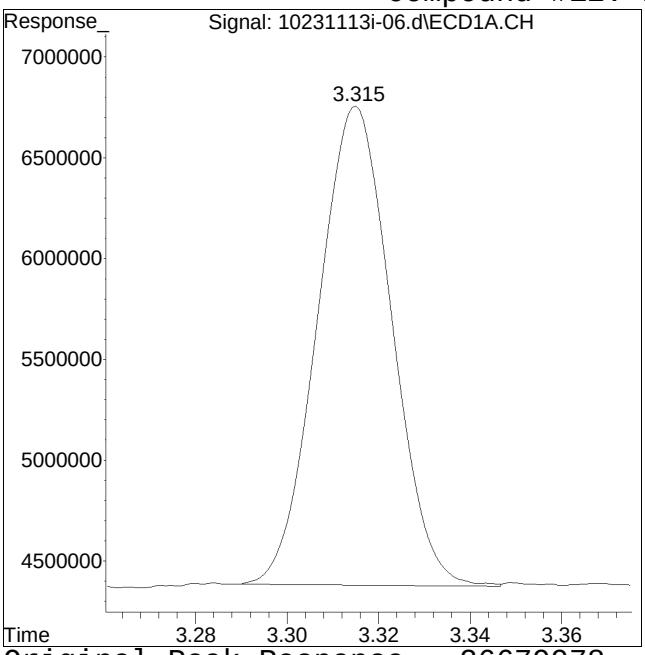


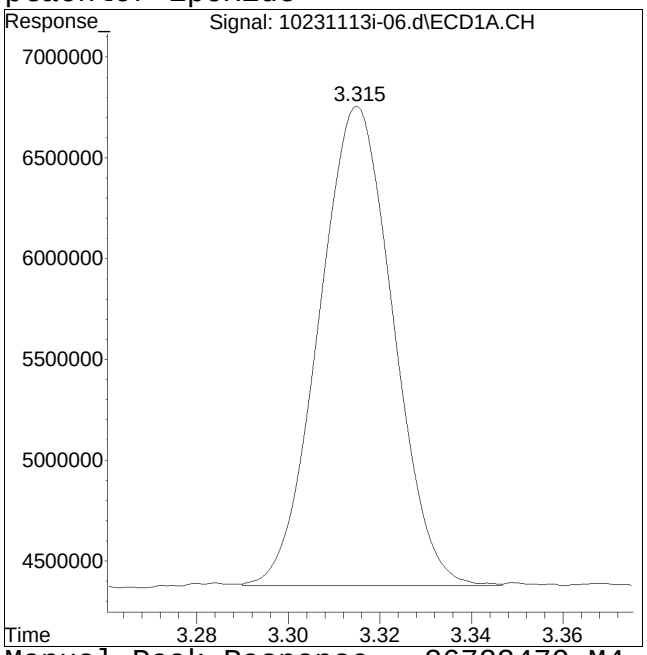
Original Peak Response = 29497164 Manual Peak Response = 29188938 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-06.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:18 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 11/14/2023 8:50 am

Compound #12: Heptachlor Epoxide



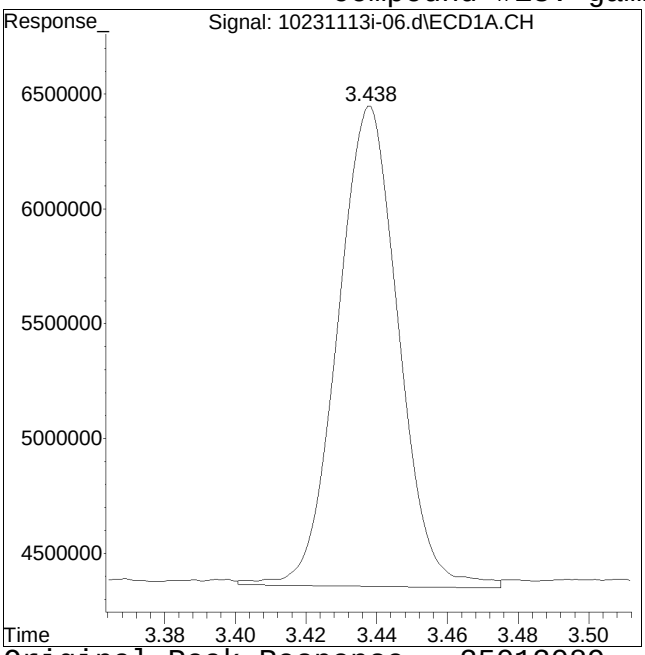


Original Peak Response = 26679978 Manual Peak Response = 26722479 M4
M4 = Poor automated baseline construction.

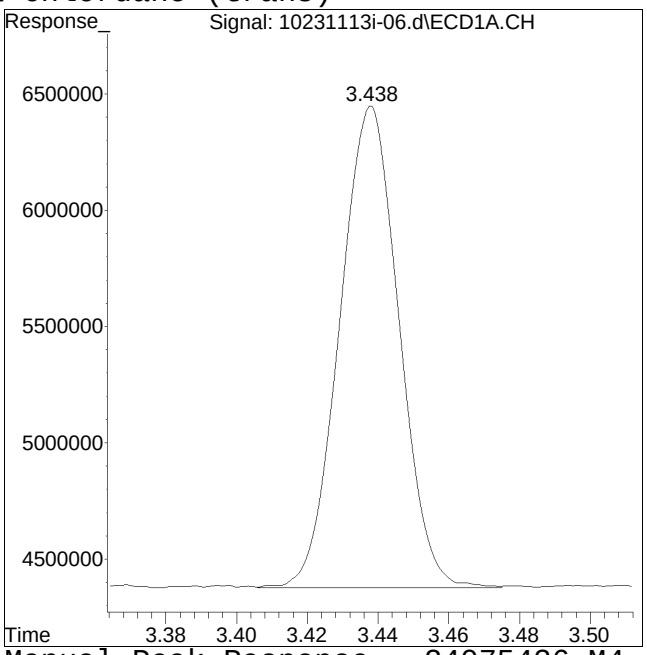
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-06.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:18 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 11/14/2023 8:50 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 25013089



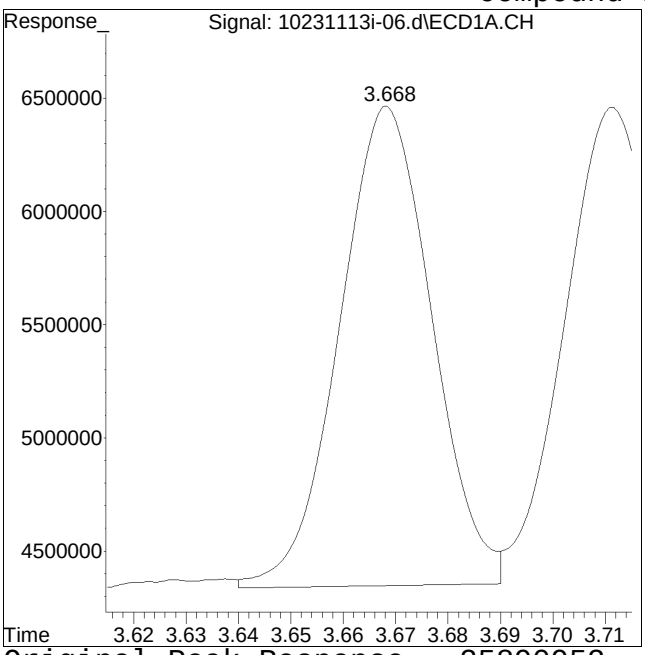
Manual Peak Response = 24075436 M4

M4 = Poor automated baseline construction.

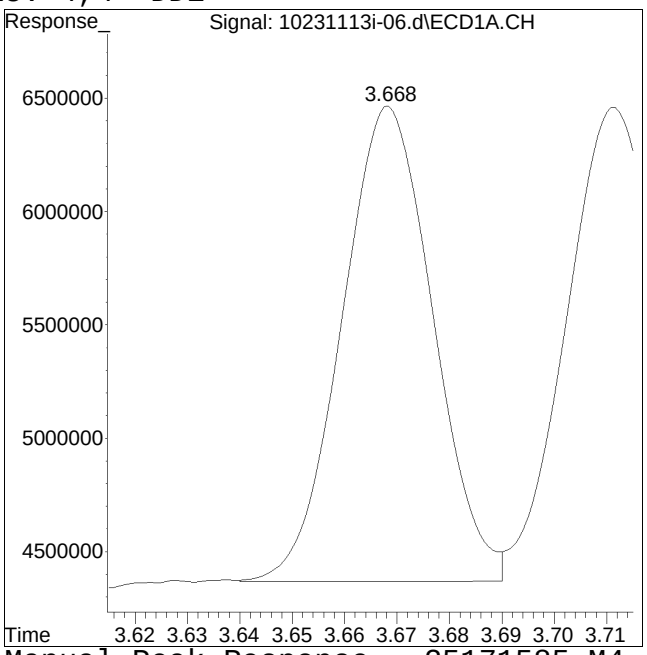
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-06.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:18 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 11/14/2023 8:50 am

Compound #15: 4,4'-DDE



Original Peak Response = 25890952



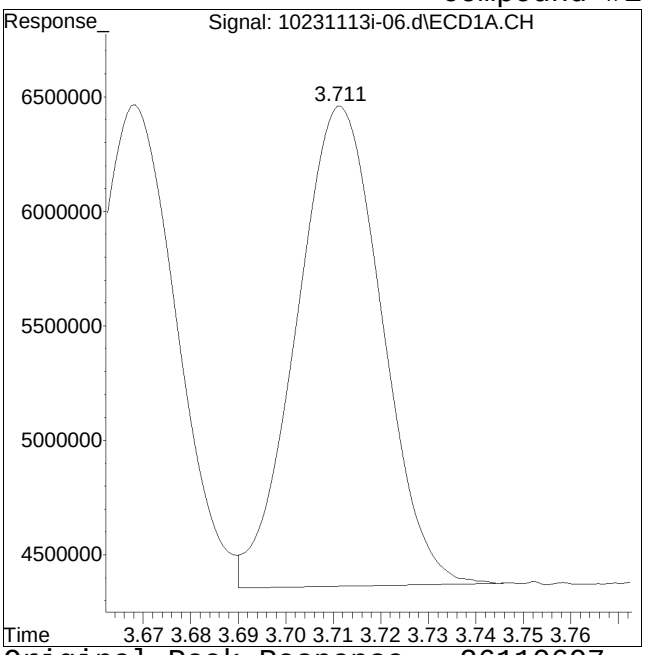
Manual Peak Response = 25171585 M4

M4 = Poor automated baseline construction.

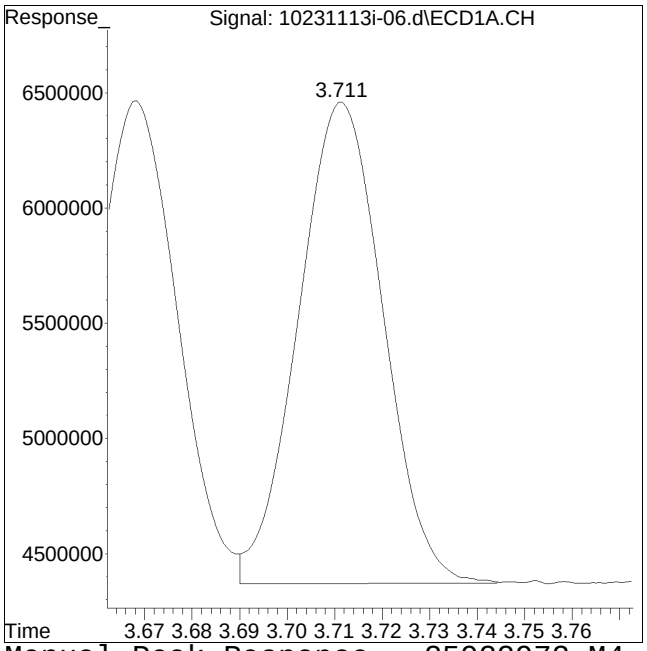
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-06.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:18 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 11/14/2023 8:50 am

Compound #16: Endosulfan I



Original Peak Response = 26110697



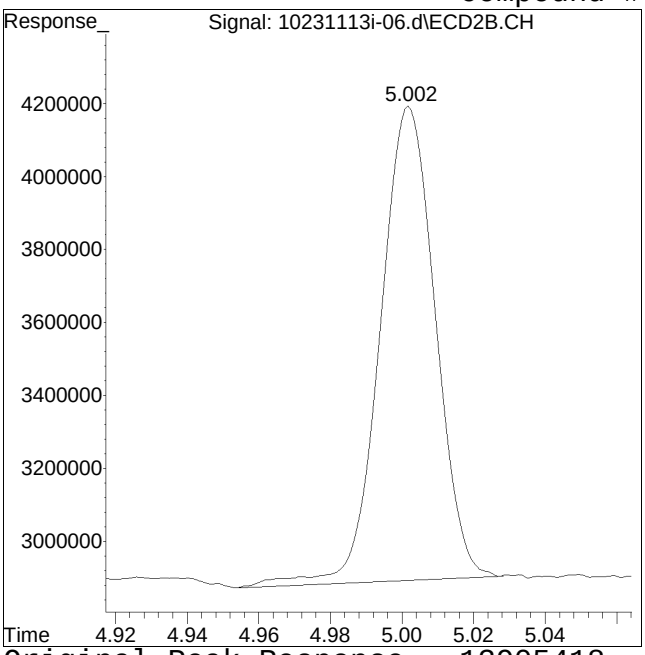
Manual Peak Response = 25922972 M4

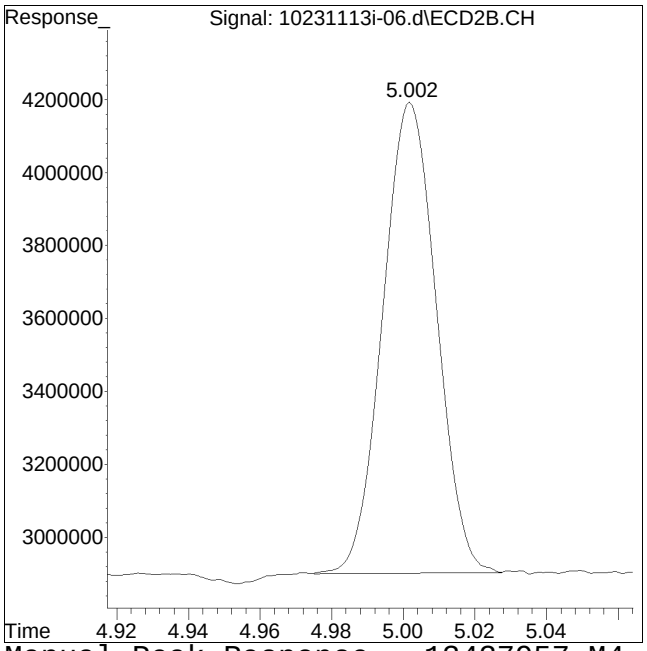
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-06.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:18 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 11/14/2023 8:50 am

Compound #56: Endrin #2



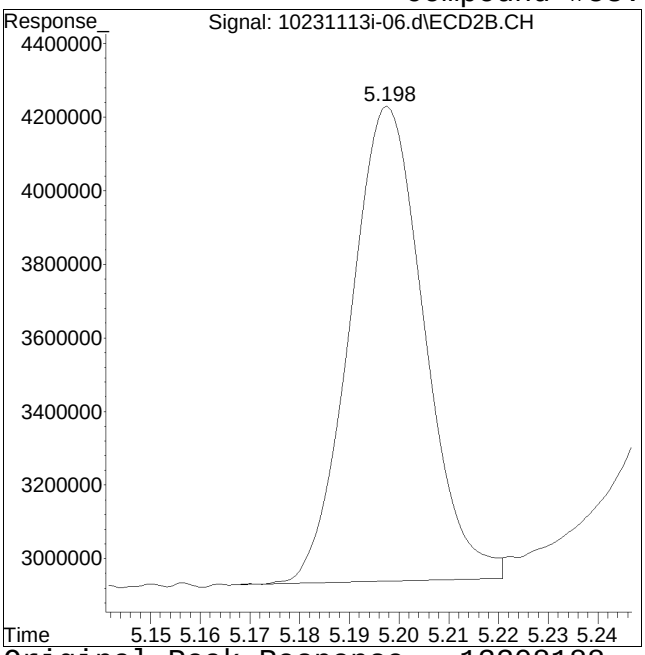


Original Peak Response = 13905418 Manual Peak Response = 13437957 M4
M4 = Poor automated baseline construction.

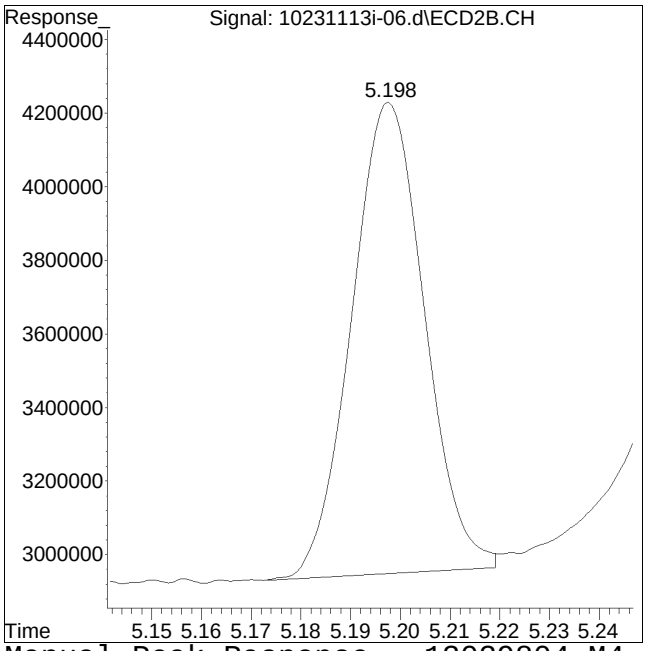
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-06.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:18 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 11/14/2023 8:50 am

Compound #58: Endosulfan II #2



Original Peak Response = 13308188



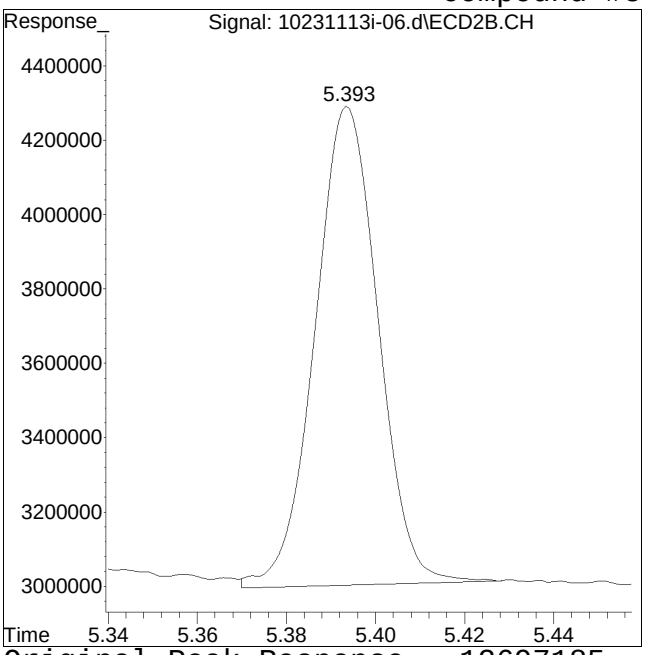
Manual Peak Response = 13039804 M4

M4 = Poor automated baseline construction.

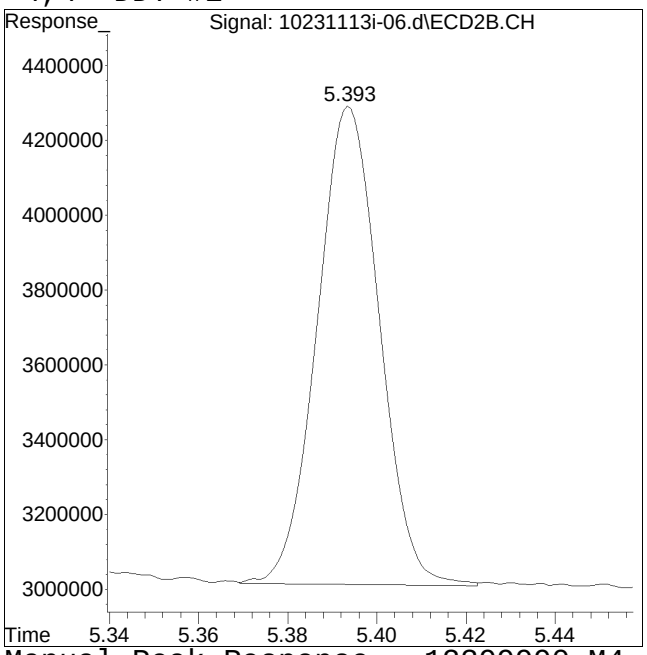
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-06.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:18 pm Instrument : Pest 10
Sample : il4pest,42e,,pp 11403 L0.0Quant Date : 11/14/2023 8:50 am

Compound #59: 4,4'-DDT #2



Original Peak Response = 12697185



Manual Peak Response = 12399990 M4

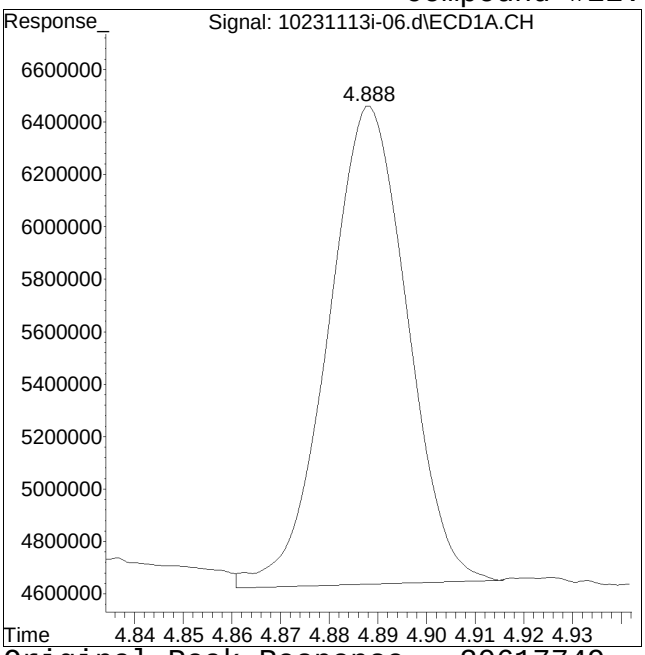
M4 = Poor automated baseline construction.

Manual Integration Report

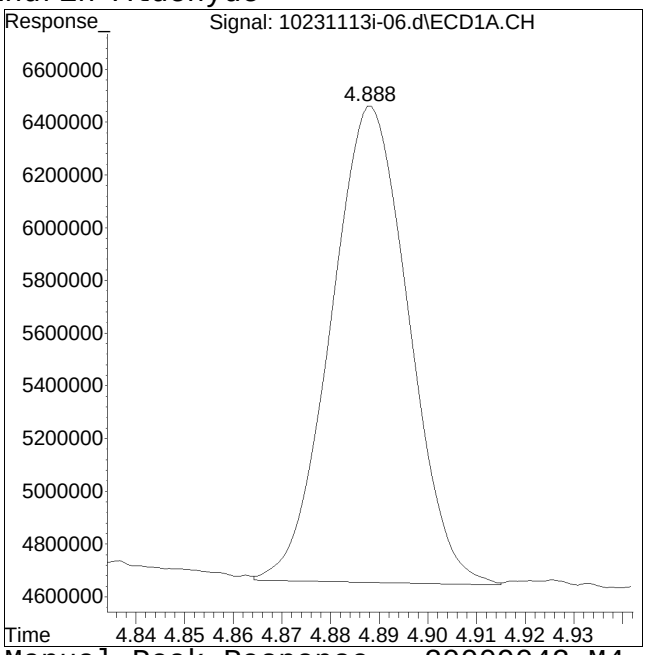
Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-06.d
Date Inj'd : 11/13/2023 5:18 pm
Sample : il4pest,42e,,pp 11403 L0.0

Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 8:50 am

Compound #22: Endrin Aldehyde



Original Peak Response = 20617749



Manual Peak Response = 20009042 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:29 pm
Operator : PEST10:ejl
Sample : il5pest,42e,,pp 11402 L0.004
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:49:53 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:46:42 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.316	1.409	160.1E6	75415915	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.660	1.897	31344352	12163828	5.118	4.019
	Spiked Amount 50.000	Range 30 - 150		Recovery =		10.24%#	8.04%#
27) s	Decachlorobi	6.306	6.977	26566967	14339750	4.590	4.439
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.18%#	8.88%#
	Target Compounds						
3) t	Hexachlorobe	1.874	2.227	31116247	14799546	4.668	4.336
4) t	alpha-BHC	1.973	2.325	36001968	16518568	3.860M4	3.455
5) t	gamma-BHC (l	2.177	2.617	34641519	16066668	4.034M4	3.644
6) t	beta-BHC	2.233	2.683	17394494	8284395	4.744M4	4.291
7) t	delta-BHC	2.361	2.956	34181638	15894306	3.837M4	3.478
8) t	Heptachlor	2.523	3.023	34723615	17725005	4.302M4	3.974M4
9) t	Aldrin	2.767	3.349	30988870	15738812	4.079	3.746
10) t	Alachlor	2.892	3.228	7870712	2555494	4.704	4.251
11) t	Chlorpyrifos	2.981	3.588	18121105	10456889	4.977	4.638
12) t	Heptachlor E	3.314	3.975	31895870	17270305	4.422M4	4.207
13) t	gamma-Chlord	3.437	4.197	27930123	14711132	4.207M4	3.929
14) t	alpha-Chlord	3.571	4.364	34462847	16600287	4.588M4	3.982
15) t	4,4'-DDE	3.667	4.554	29124263	14736822	3.926M4	3.582
16) t	Endosulfan I	3.710	4.424	30333344	15845177	4.359M4	4.062
17) t	Dieldrin	3.971	4.710	29996998	15249480	4.099M4	3.767
18) t	Endrin	4.227	5.002	31278219	15805449	4.118	3.776M4
19) t	4,4'-DDD	4.335	5.120	24011639	12009483	3.929	3.570
20) t	Endosulfan I	4.468	5.198	29112249	15337281	4.308	4.079
21) t	4,4'-DDT	4.628	5.394	26870835	14142390	3.870	3.699M4
22) t	Endrin Aldeh	4.887	5.491	23281539	12002531	4.136M4	3.839M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:29 pm
Operator : PEST10:ejl
Sample : il5pest,42e,,pp 11402 L0.004
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:49:53 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:46:42 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	5.114	5.951	16894911	8537642	4.595M4	4.232
24) t	Mirex	5.170	6.093	26847900	14888661	4.699M3	4.696
25) t	Endosulfan S	5.281	5.717	28399700	14889388	4.343M4	4.089
26) t	Endrin Keton	5.507	6.126	32420028	16063827	4.336M4	3.991
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

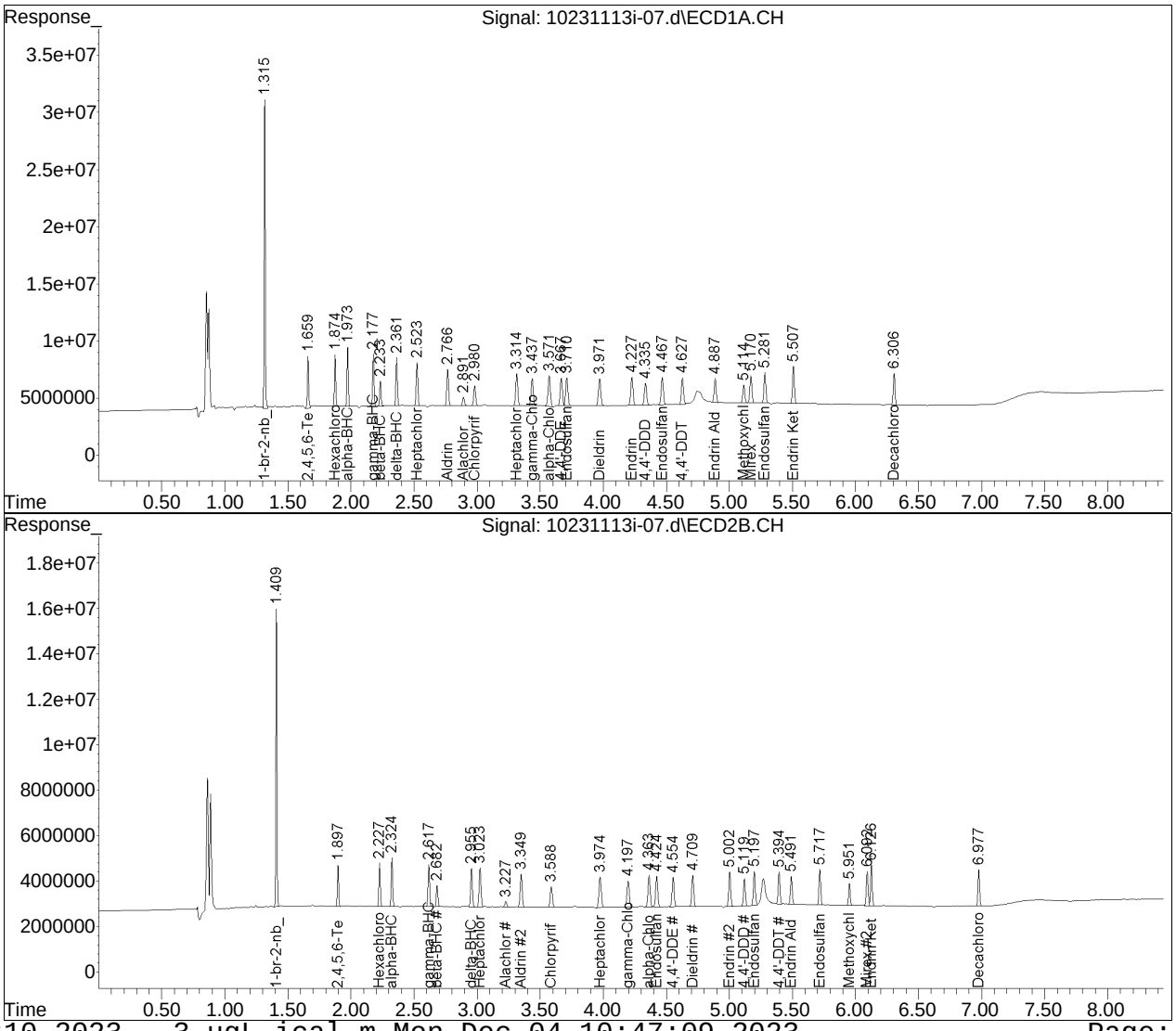
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:29 pm
Operator : PEST10:ejl
Sample : il5pest,42e,,pp 11402 L0.004
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:49:53 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:46:42 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

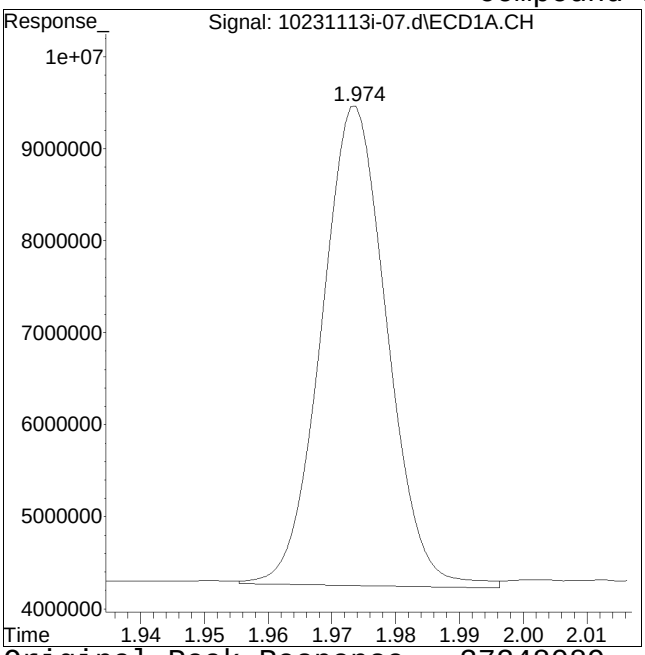
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



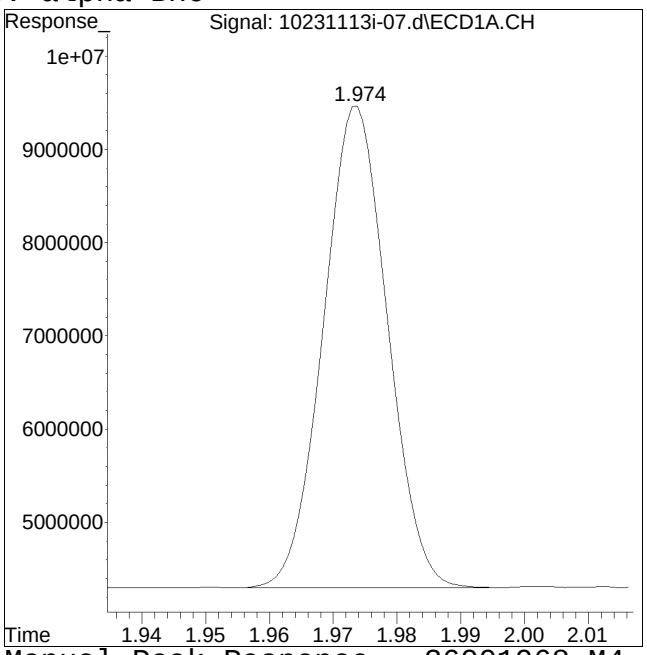
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #4: alpha-BHC



Original Peak Response = 37248089



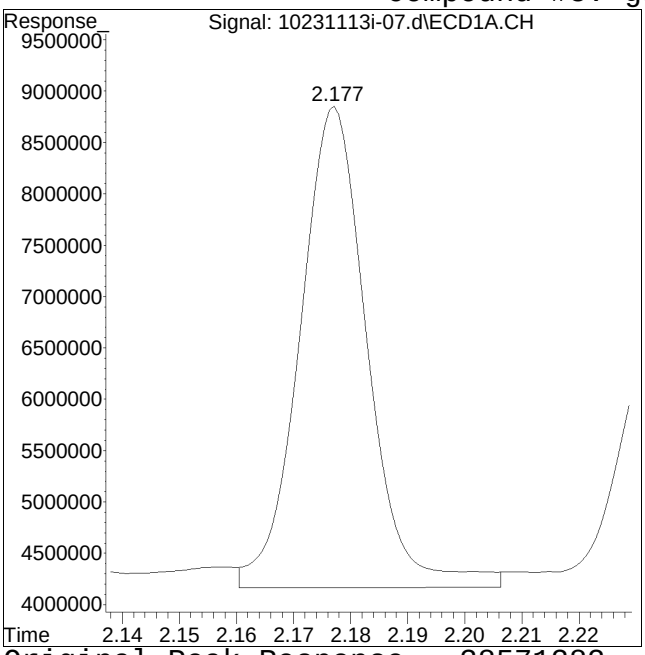
Manual Peak Response = 36001968 M4

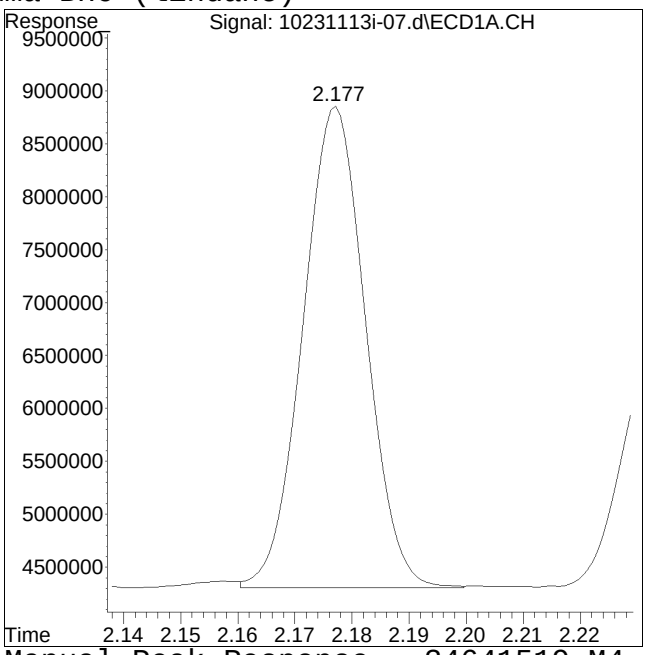
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #5: gamma-BHC (lindane)



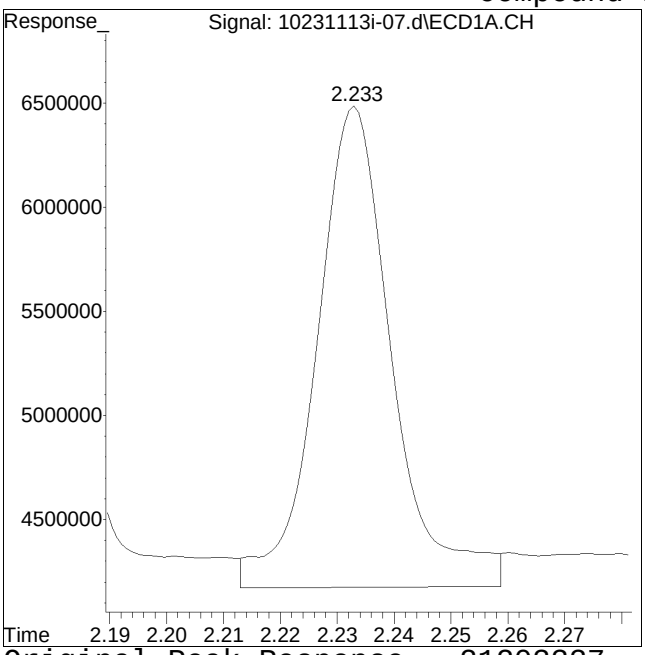


Original Peak Response = 38571282 Manual Peak Response = 34641519 M4
M4 = Poor automated baseline construction.

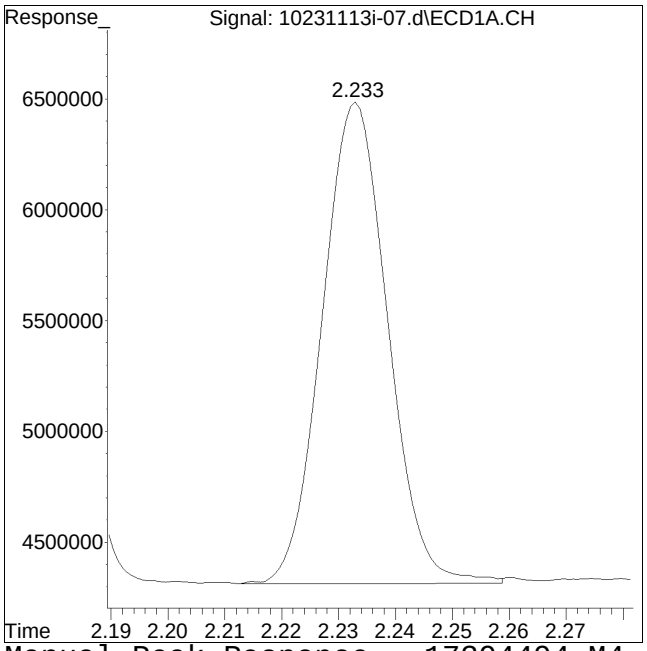
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #6: beta-BHC



Original Peak Response = 21203337



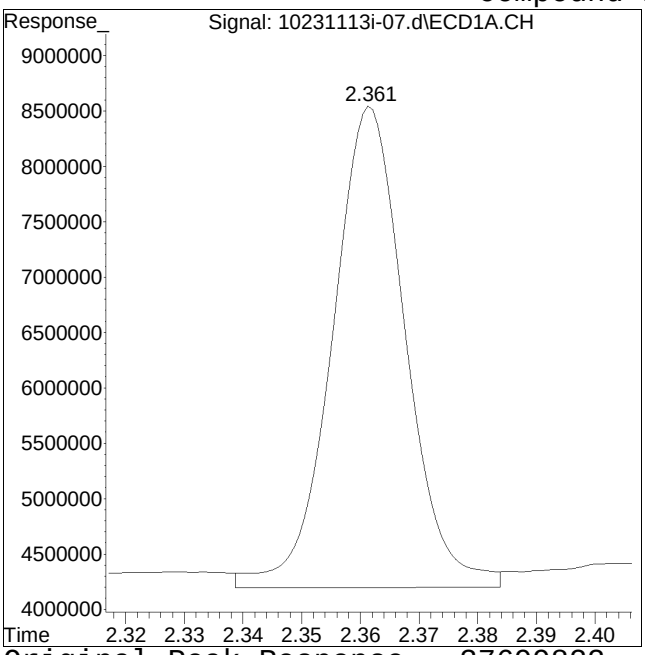
Manual Peak Response = 17394494 M4

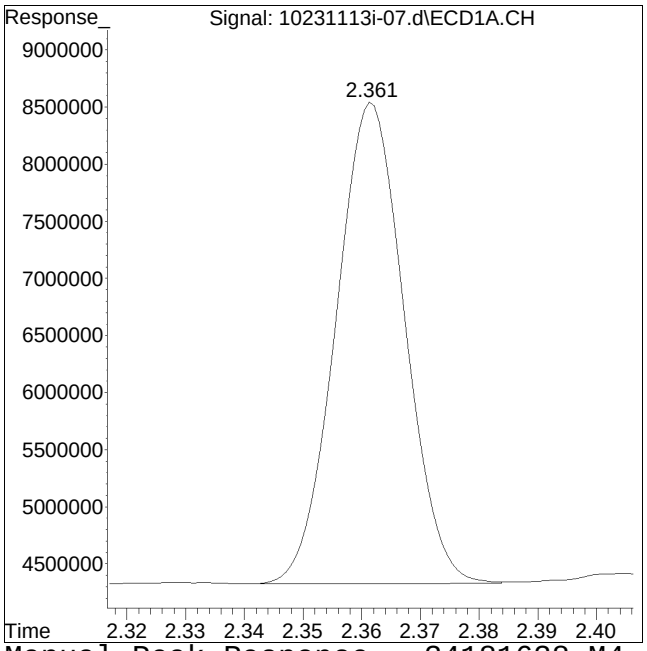
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #7: delta-BHC



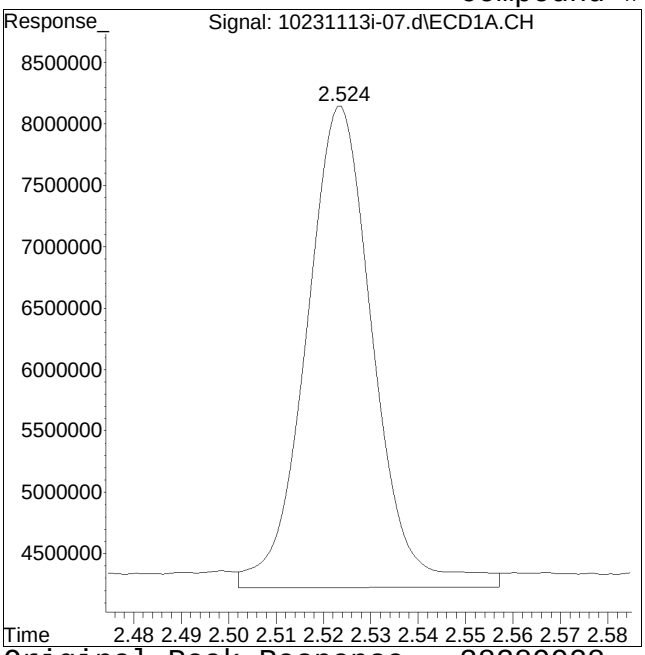


Original Peak Response = 37699822 Manual Peak Response = 34181638 M4
M4 = Poor automated baseline construction.

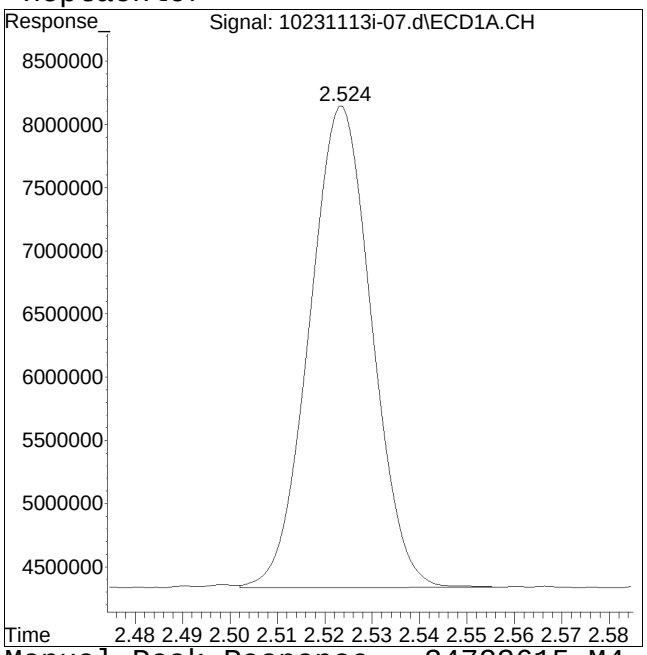
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #8: Heptachlor



Original Peak Response = 38389928



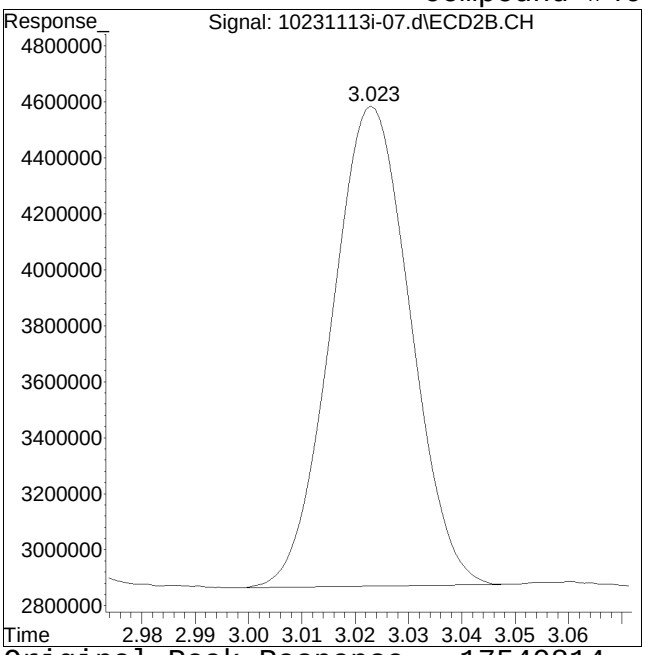
Manual Peak Response = 34723615 M4

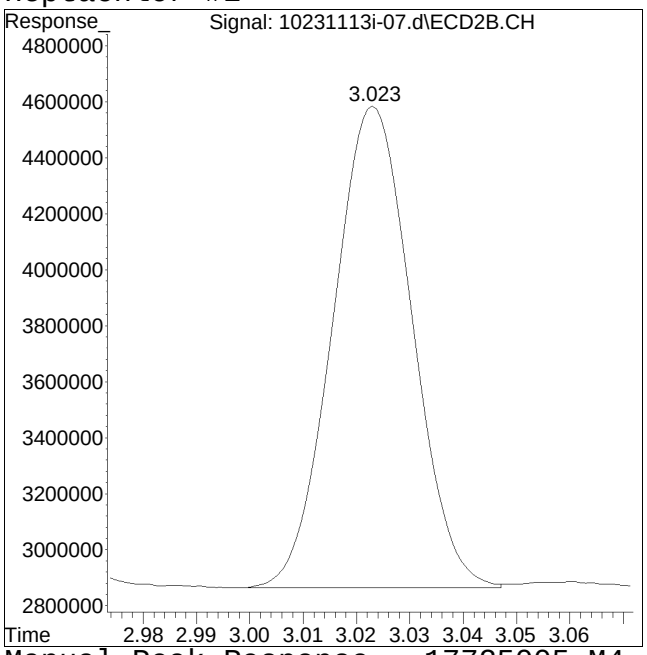
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #46: Heptachlor #2



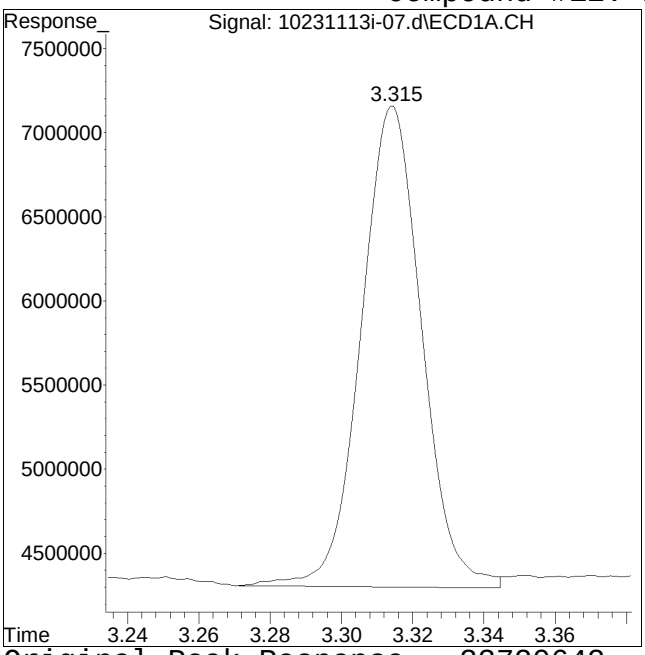


Original Peak Response = 17540814 Manual Peak Response = 17725005 M4
M4 = Poor automated baseline construction.

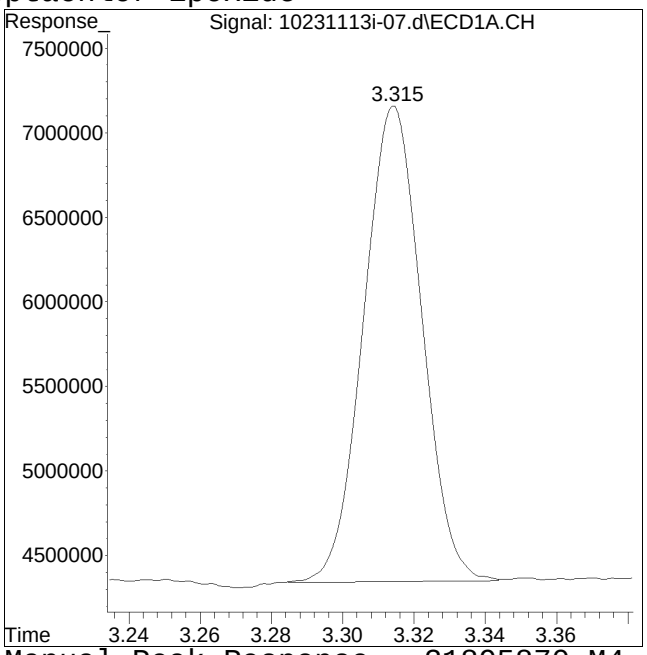
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #12: Heptachlor Epoxide



Original Peak Response = 33720642



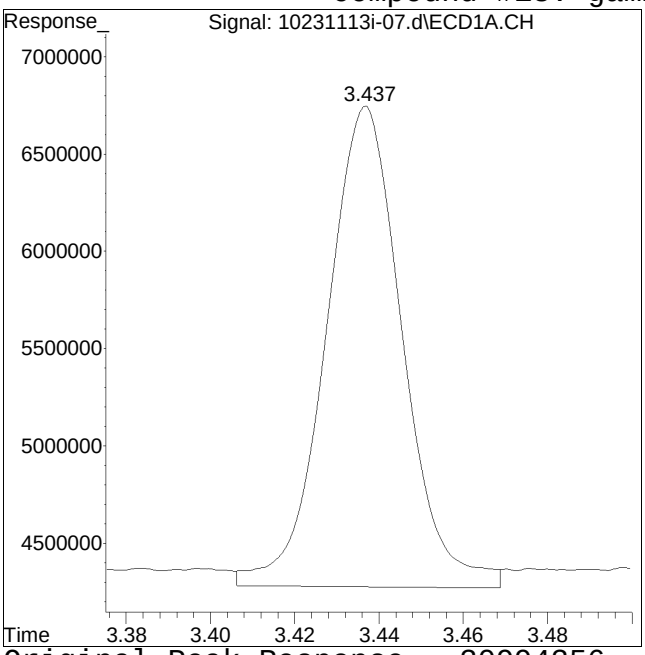
Manual Peak Response = 31895870 M4

M4 = Poor automated baseline construction.

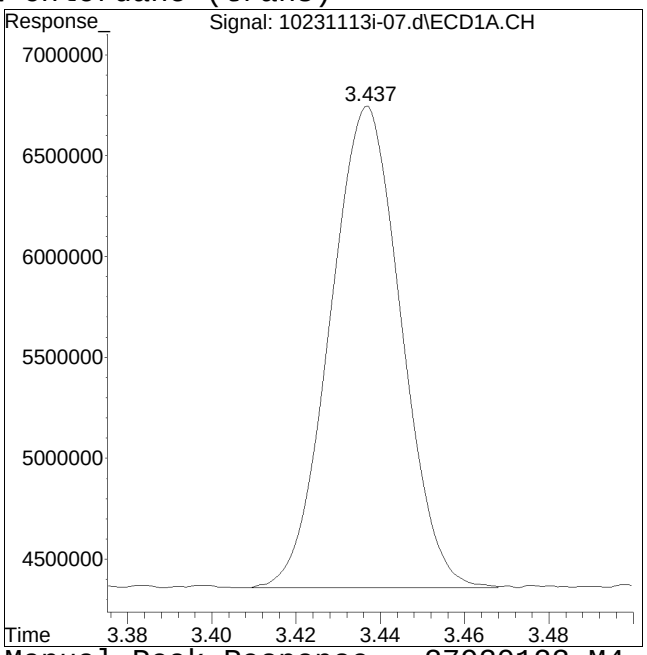
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #13: gamma-Chlordane (trans)



Original Peak Response = 30994356



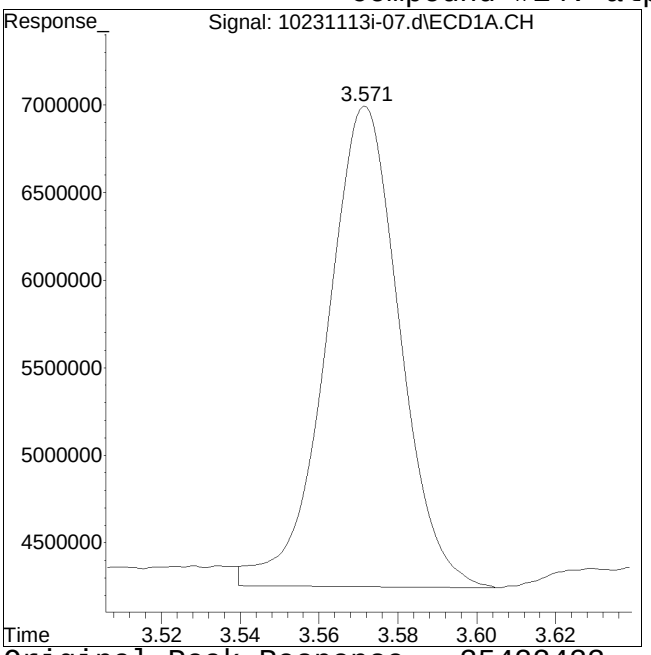
Manual Peak Response = 27930123 M4

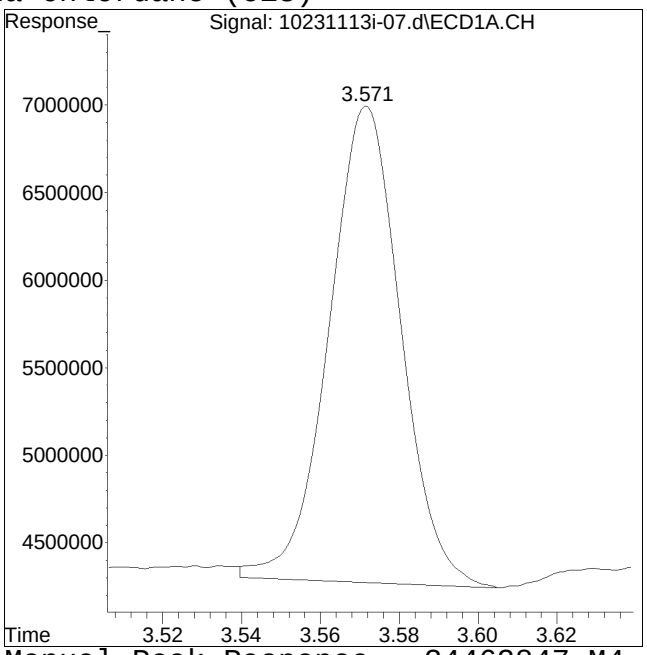
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #14: alpha-Chlordane (cis)





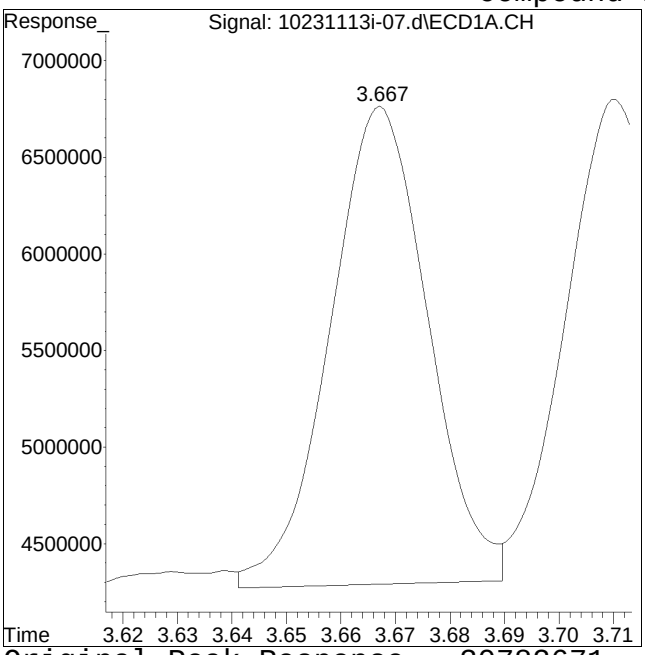
Original Peak Response = 35422433 Manual Peak Response = 34462847 M4
M4 = Poor automated baseline construction.

Manual Integration Report

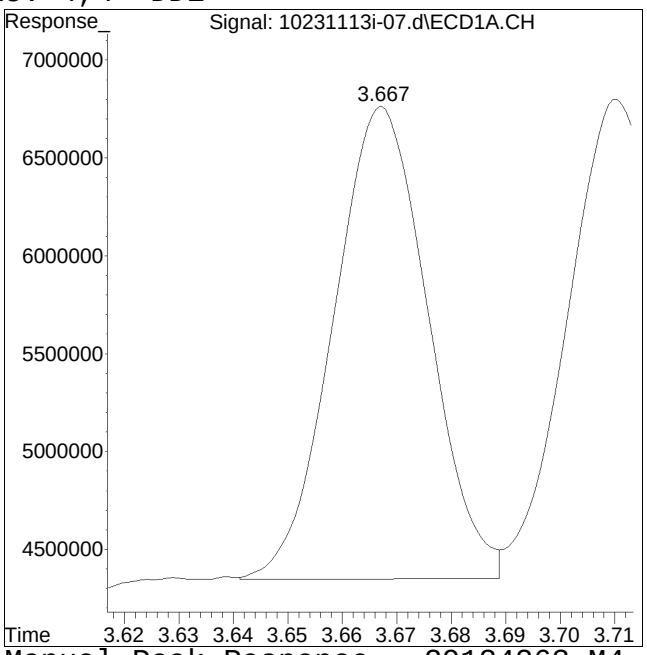
Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-07.d
Date Inj'd : 11/13/2023 5:29 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 8:46 am

Compound #15: 4,4'-DDE



Original Peak Response = 30782671



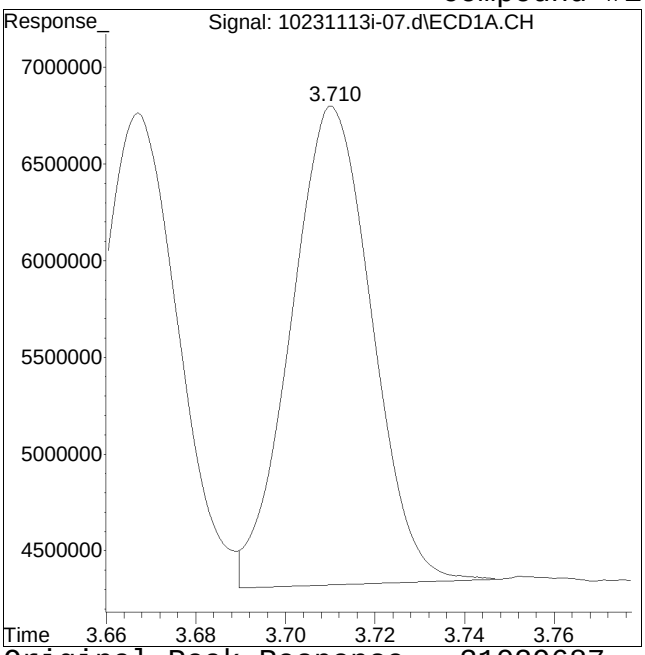
Manual Peak Response = 29124263 M4

M4 = Poor automated baseline construction.

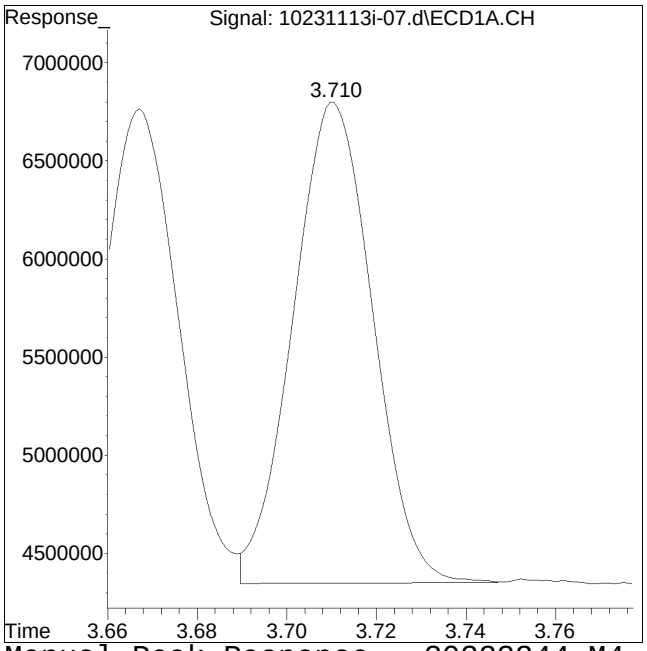
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #16: Endosulfan I



Original Peak Response = 31029687



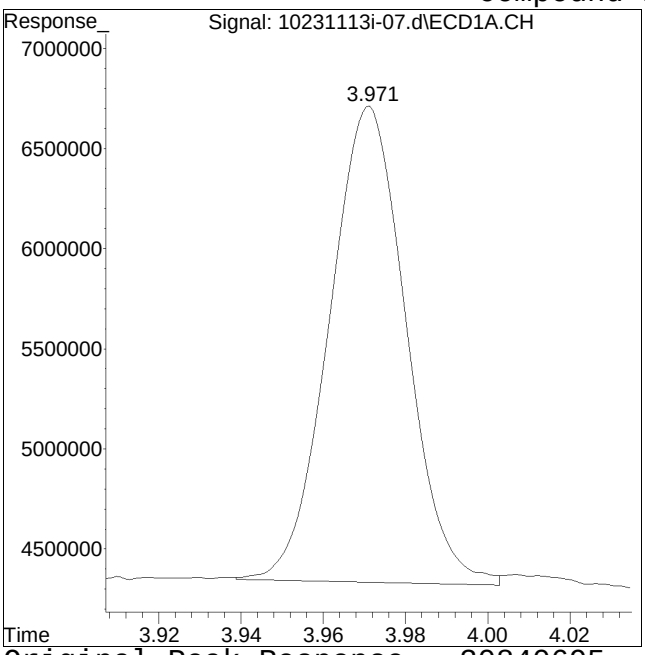
Manual Peak Response = 30333344 M4

M4 = Poor automated baseline construction.

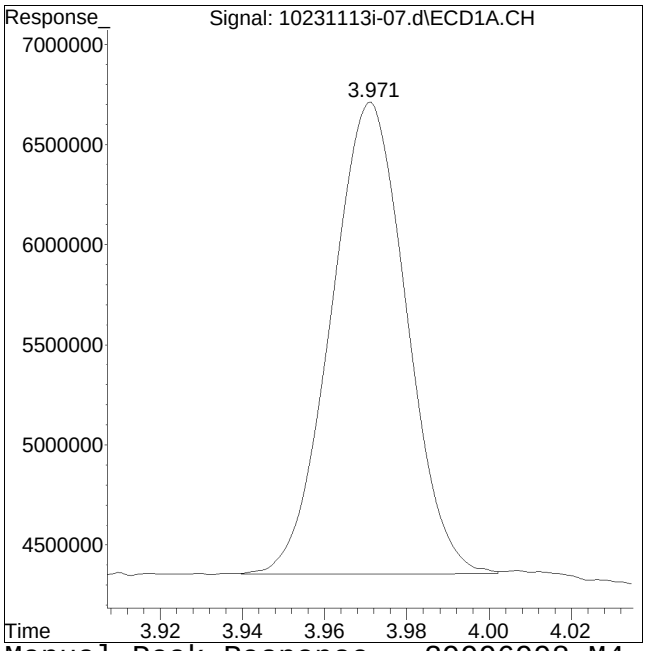
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #17: Dieldrin



Original Peak Response = 30840695



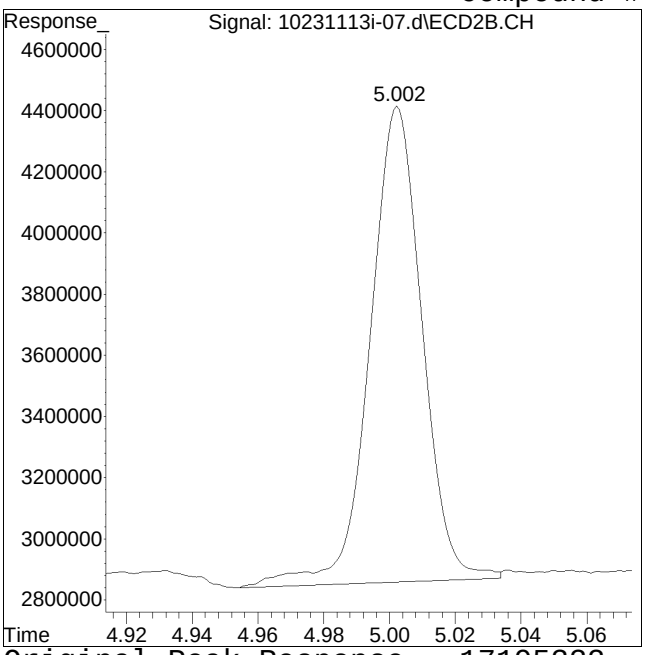
Manual Peak Response = 29996998 M4

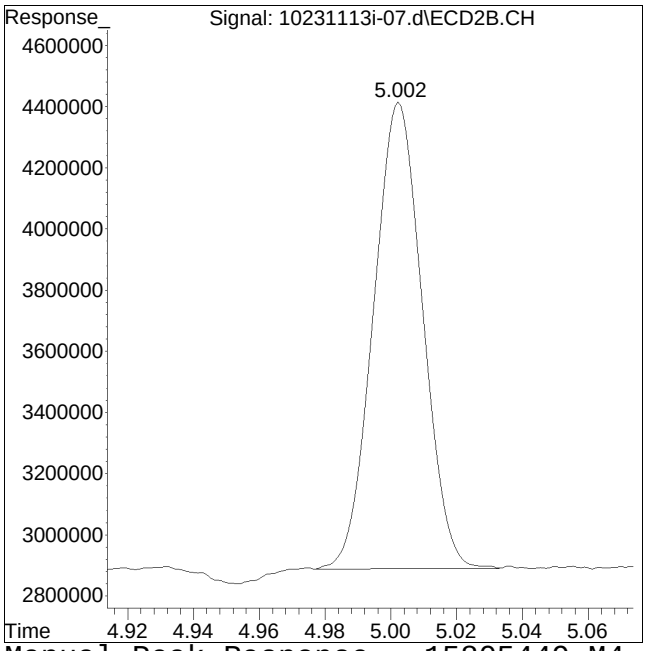
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #56: Endrin #2



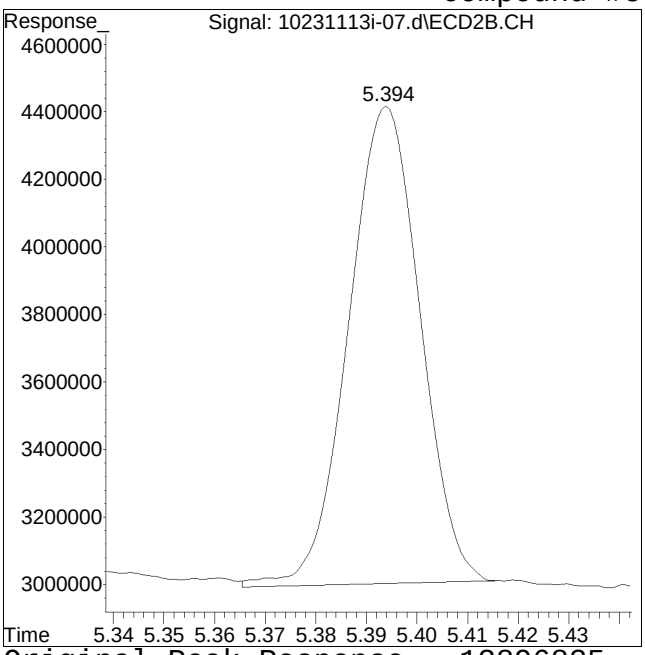


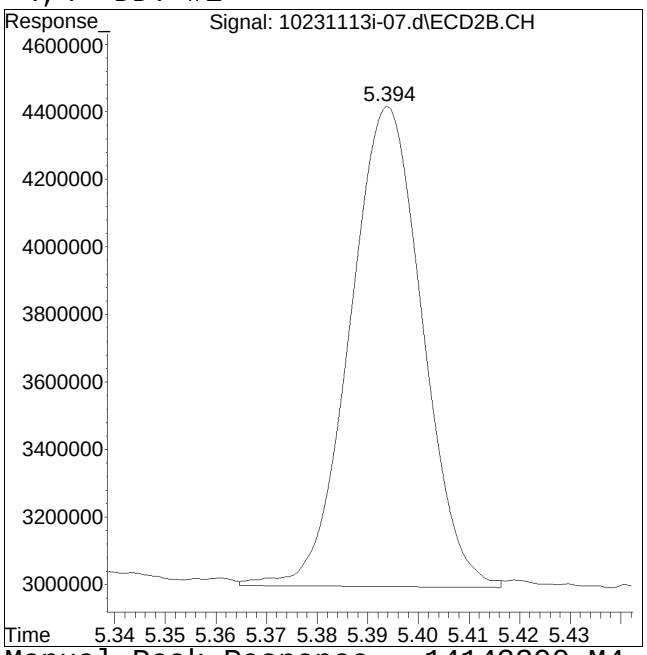
Original Peak Response = 17195332 Manual Peak Response = 15805449 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #59: 4,4'-DDT #2





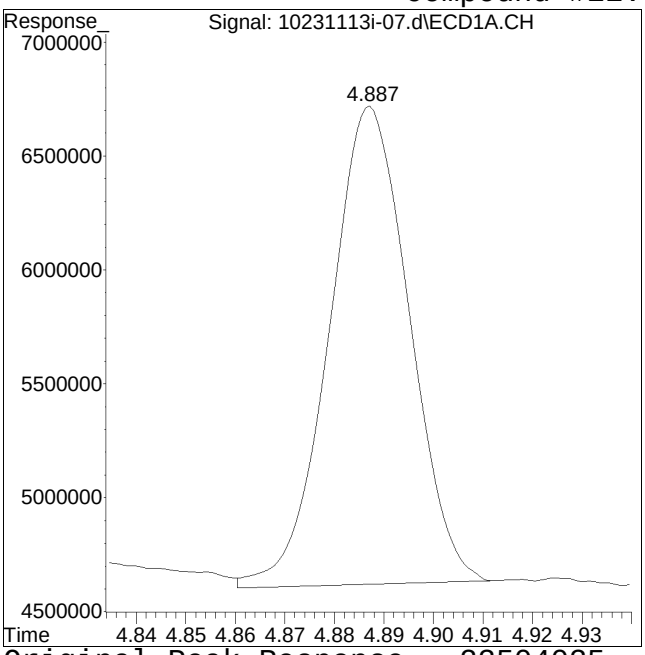
Original Peak Response = 13896835 Manual Peak Response = 14142390 M4
M4 = Poor automated baseline construction.

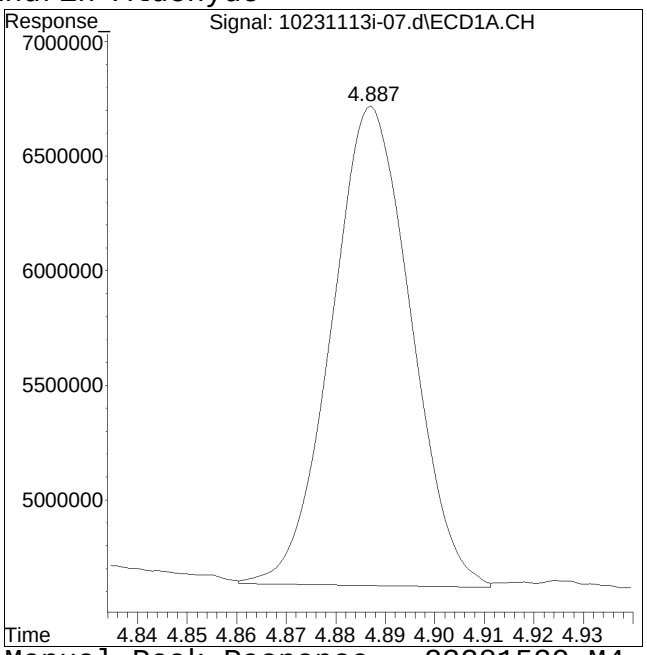
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-07.d
Date Inj'd : 11/13/2023 5:29 pm
Sample : il5pest,42e,,pp 11402 L0.0

Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 8:46 am

Compound #22: Endrin Aldehyde



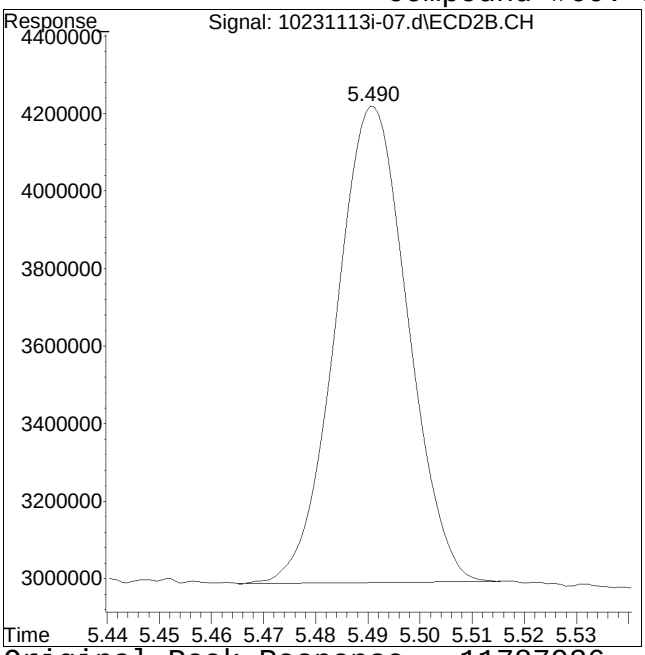


Original Peak Response = 23504035 Manual Peak Response = 23281539 M4
M4 = Poor automated baseline construction.

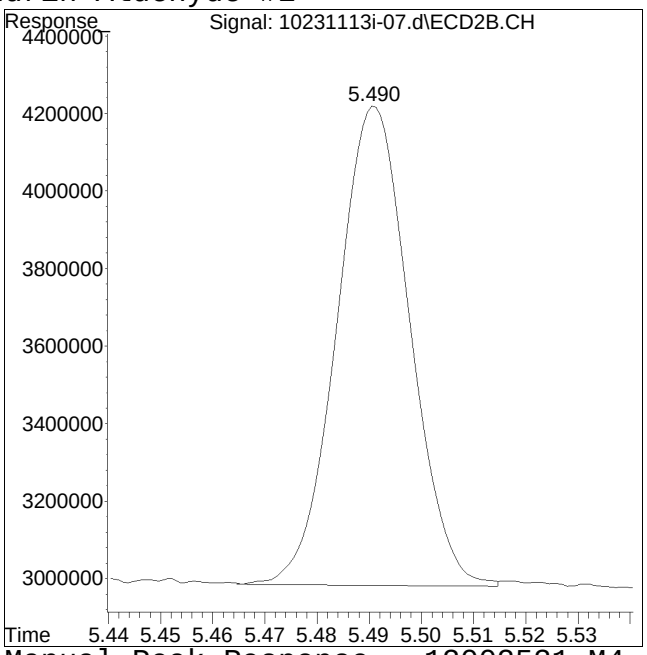
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 11787936



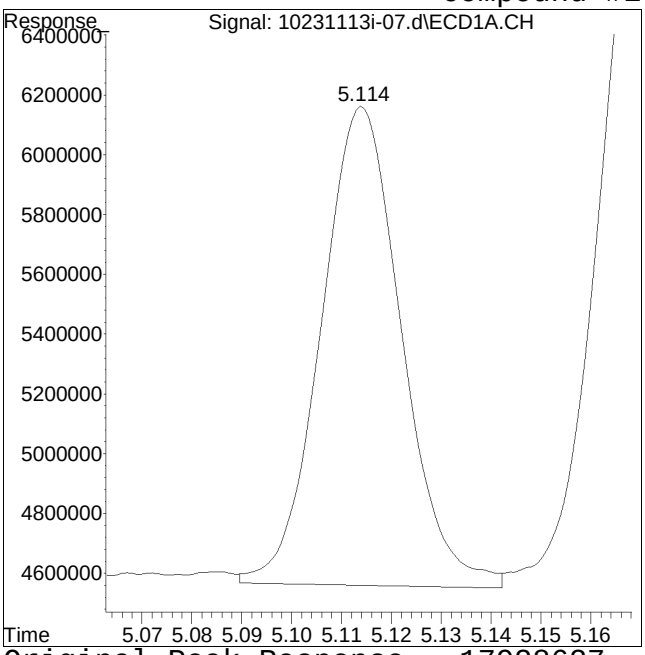
Manual Peak Response = 12002531 M4

M4 = Poor automated baseline construction.

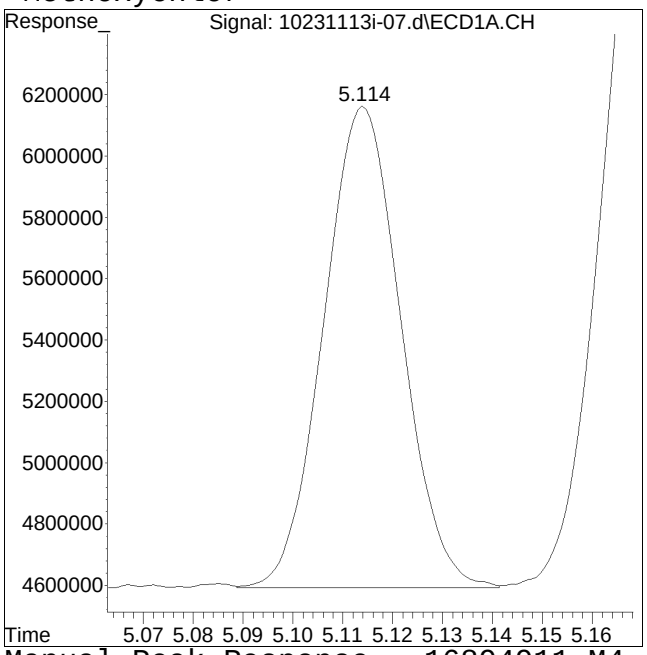
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #23: Methoxychlor



Original Peak Response = 17928627



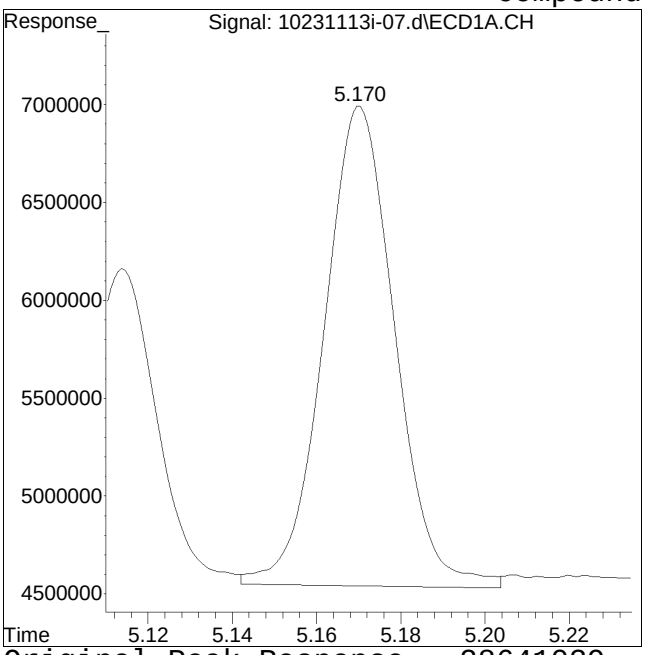
Manual Peak Response = 16894911 M4

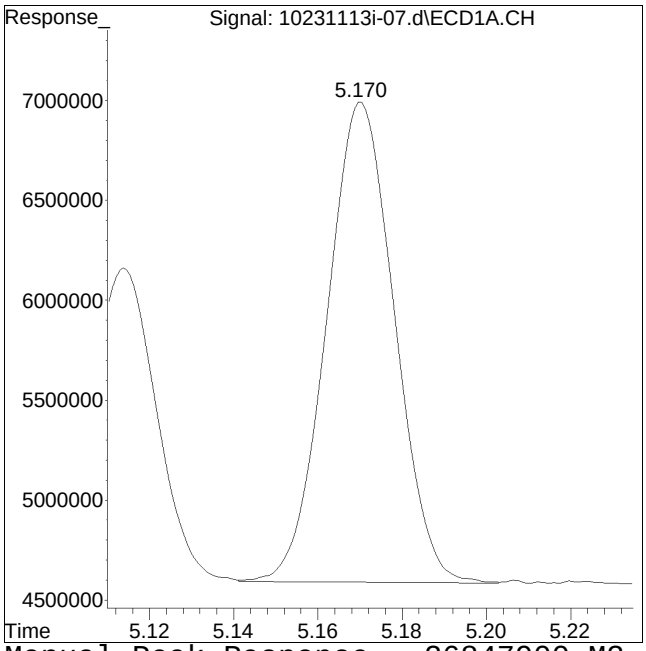
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #24: Mirex



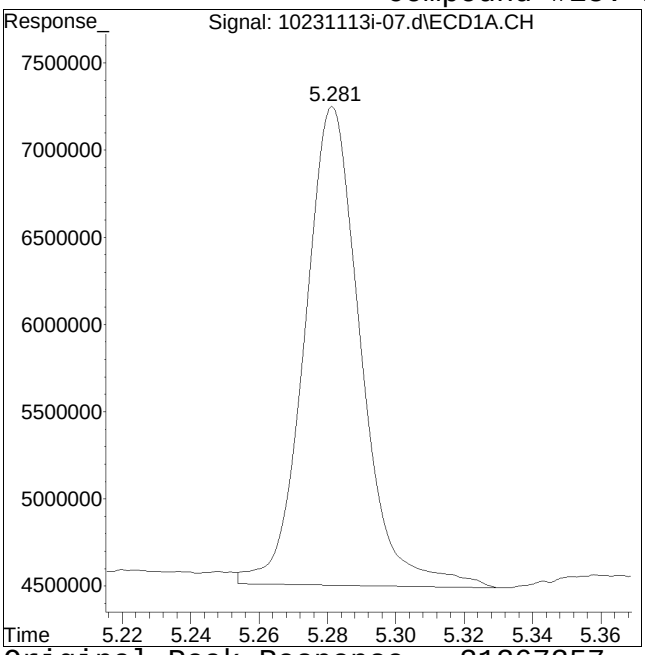


Original Peak Response = 28641039 Manual Peak Response = 26847900 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

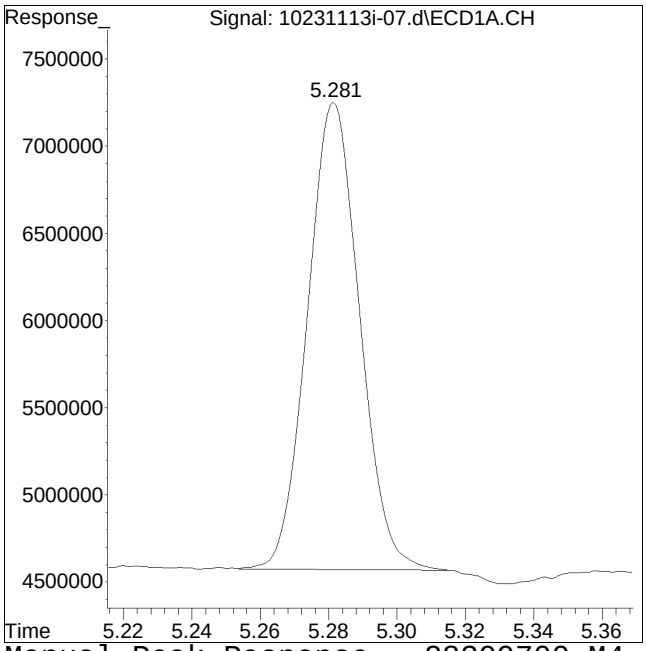
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #25: Endosulfan Sulfate



Original Peak Response = 31267357



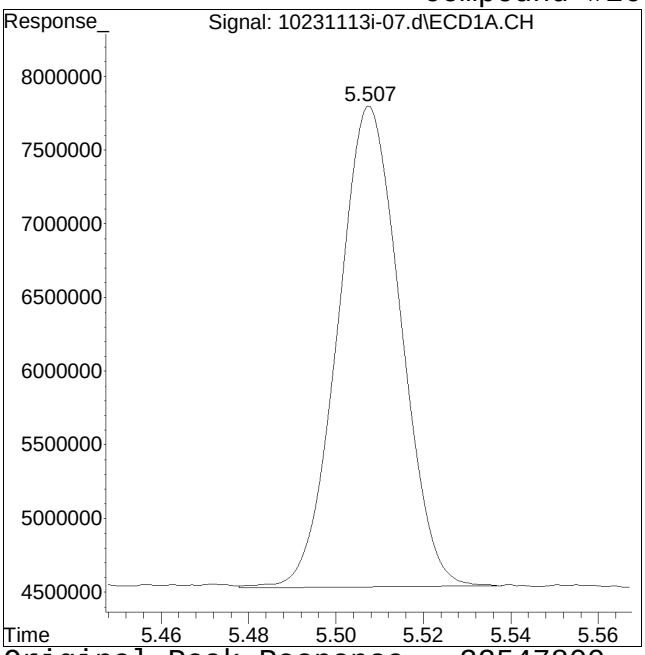
Manual Peak Response = 28399700 M4

M4 = Poor automated baseline construction.

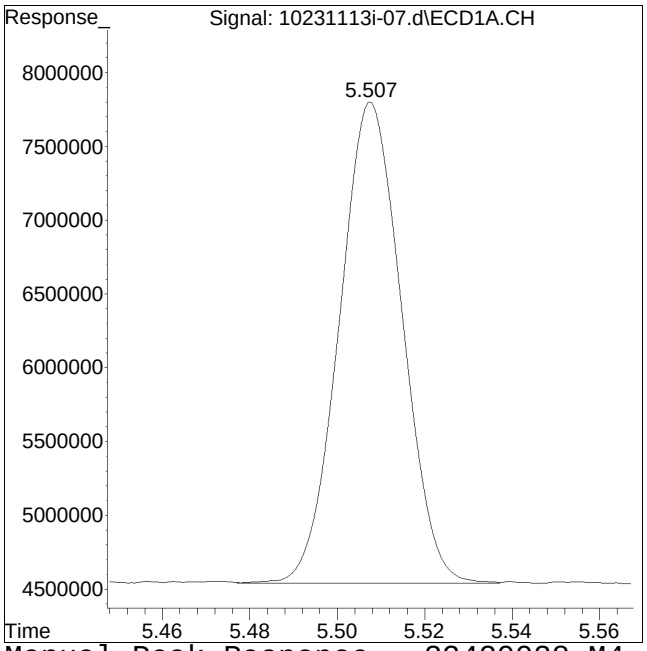
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-07.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:29 pm Instrument : Pest 10
Sample : il5pest,42e,,pp 11402 L0.0Quant Date : 11/14/2023 8:46 am

Compound #26: Endrin Ketone



Original Peak Response = 32547800



Manual Peak Response = 32420028 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:40 pm
Operator : PEST10:ejl
Sample : il7pest,42e,,pp 11401 L0.01
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:46:31 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:42:14 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.316	1.409	178.0E6	77148789	25.000	25.000M3
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.660	1.898	71830663	31363608	10.696	10.164
	Spiked Amount 50.000	Range 30 - 150		Recovery =		21.39%#	20.33%#
27) s	Decachlorobi	6.307	6.978	70861123	37051381	11.297	11.561M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		22.59%#	23.12%#
	Target Compounds						
3) t	Hexachlorobe	1.874	2.227	78205237	36456553	10.698M4	10.557
4) t	alpha-BHC	1.974	2.325	95897616	43705272	9.078	8.704
5) t	gamma-BHC (l	2.178	2.618	91033080	41814813	9.424	9.104
6) t	beta-BHC	2.234	2.684	43235460	20699244	10.768	10.607
7) t	delta-BHC	2.362	2.957	91294424	41723991	9.040	8.691
8) t	Heptachlor	2.524	3.024	90986938	45325923	10.173	9.916M4
9) t	Aldrin	2.767	3.350	82042472	41065440	9.643	9.449
10) t	Alachlor	2.892	3.229	20401669	6816475	11.331	11.501
11) t	Chlorpyrifos	2.981	3.589	46163745	26234761	11.963	11.922
12) t	Heptachlor E	3.315	3.976	82098878	42865555	10.297	10.260
13) t	gamma-Chlord	3.438	4.199	72959137	37918428	9.854	9.874
14) t	alpha-Chlord	3.573	4.364	84802628	42727328	10.192	10.023
15) t	4,4'-DDE	3.668	4.555	78824072	39270224	9.452M4	9.177
16) t	Endosulfan I	3.712	4.424	79389050	40608750	10.328	10.220
17) t	Dieldrin	3.972	4.710	79485318	39958876	9.713	9.564
18) t	Endrin	4.228	5.003	84237990	41467086	9.968	9.608M4
19) t	4,4'-DDD	4.336	5.120	64909287	32142847	9.447	9.188
20) t	Endosulfan I	4.469	5.199	76430552	39233445	10.215	10.252
21) t	4,4'-DDT	4.628	5.394	74871051	37128508	9.626	9.373M4
22) t	Endrin Aldeh	4.888	5.492	62499701	31646873	9.982M4	9.868M4

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:40 pm
Operator : PEST10:ejl
Sample : il7pest,42e,,pp 11401 L0.01
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:46:31 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:42:14 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	5.115	5.952	45337433	22321423	11.401	11.042
24) t	Mirex	5.171	6.094	70927090	37410728	11.499	11.994
25) t	Endosulfan S	5.282	5.717	75889435	38301822	10.552	10.357
26) t	Endrin Keton	5.508	6.127	87015379	42138368	10.590	10.294
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

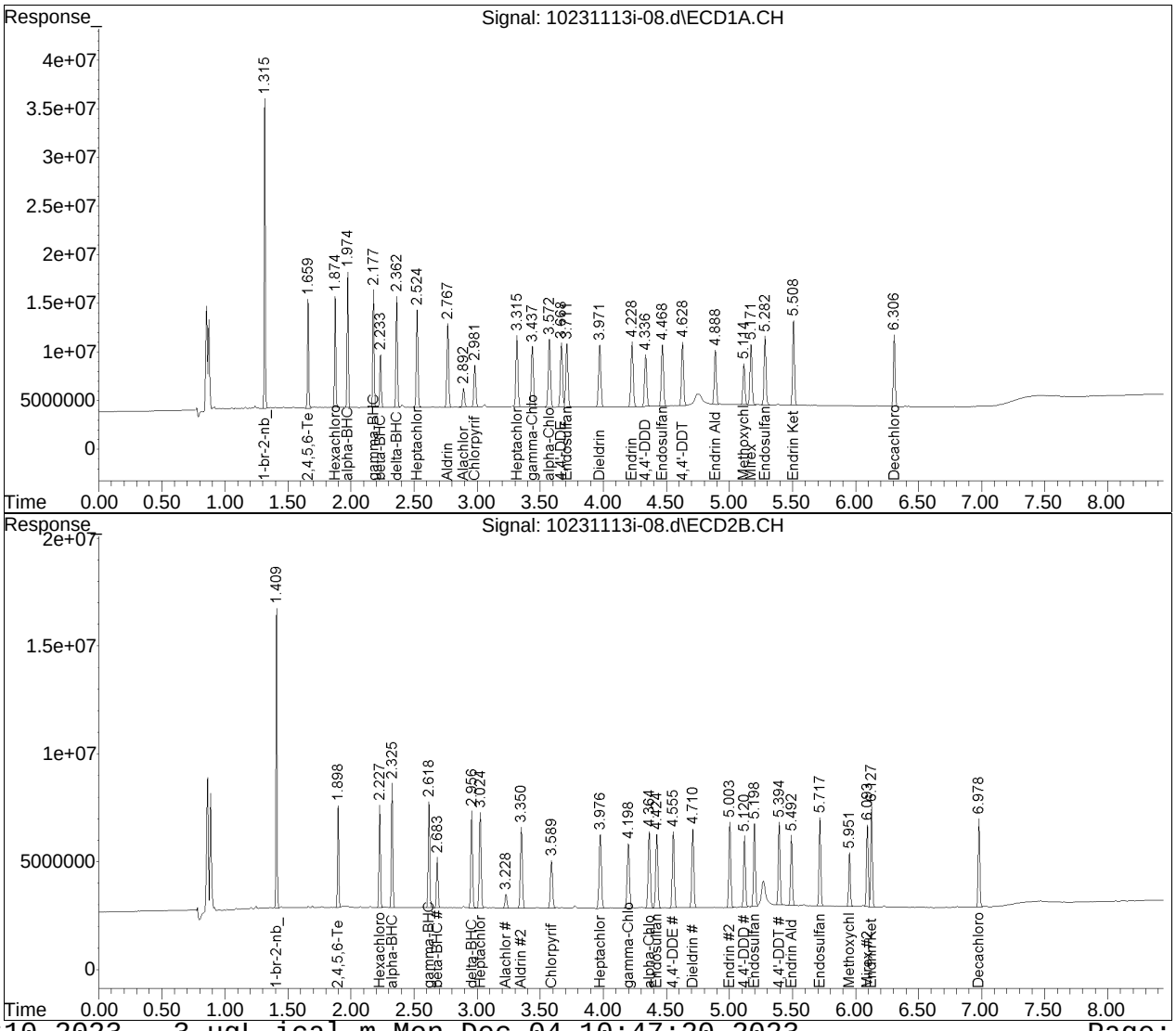
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:40 pm
Operator : PEST10:ejl
Sample : il7pest,42e,,pp 11401 L0.01
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:46:31 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:42:14 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

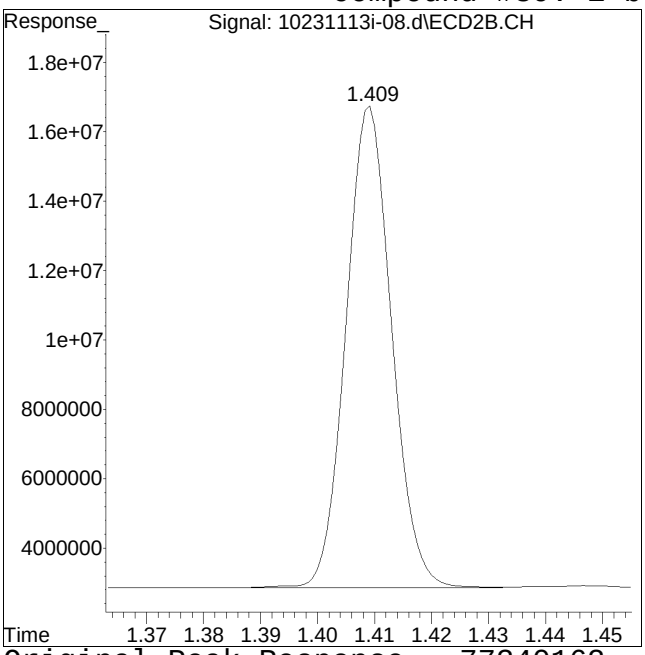
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

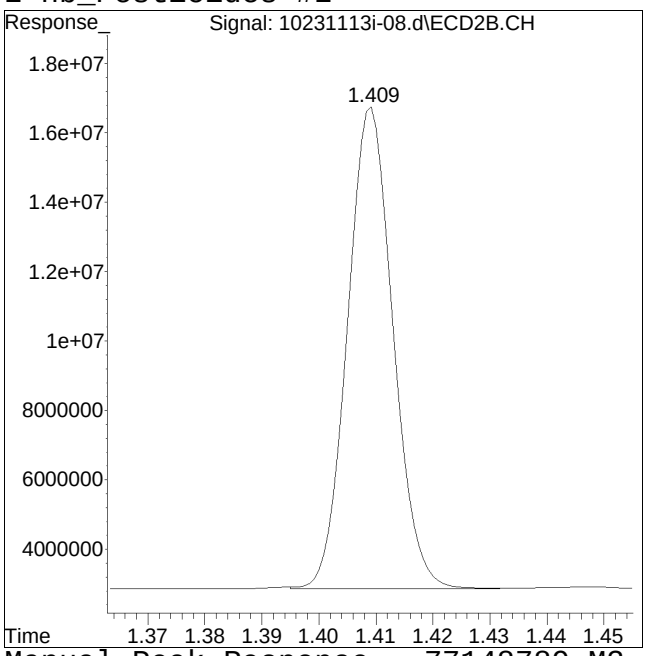


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-08.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:40 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 11/14/2023 8:42 am

Compound #39: 1-br-2-nb_Pesticides #2



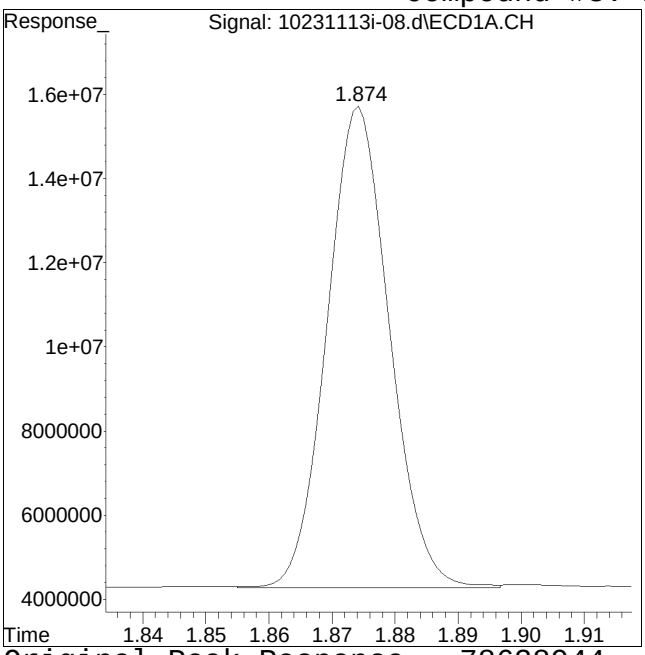


Original Peak Response = 77340162 Manual Peak Response = 77148789 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

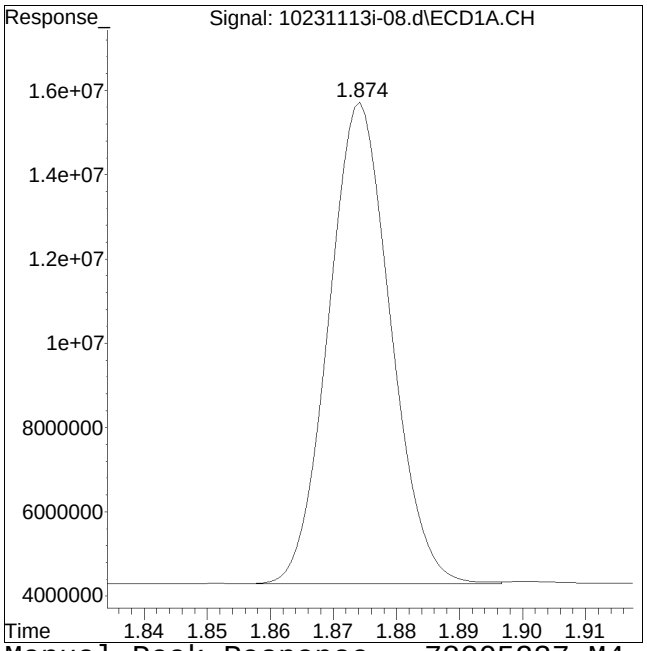
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-08.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:40 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 11/14/2023 8:42 am

Compound #3: Hexachlorobenzene



Original Peak Response = 78638944



Manual Peak Response = 78205237 M4

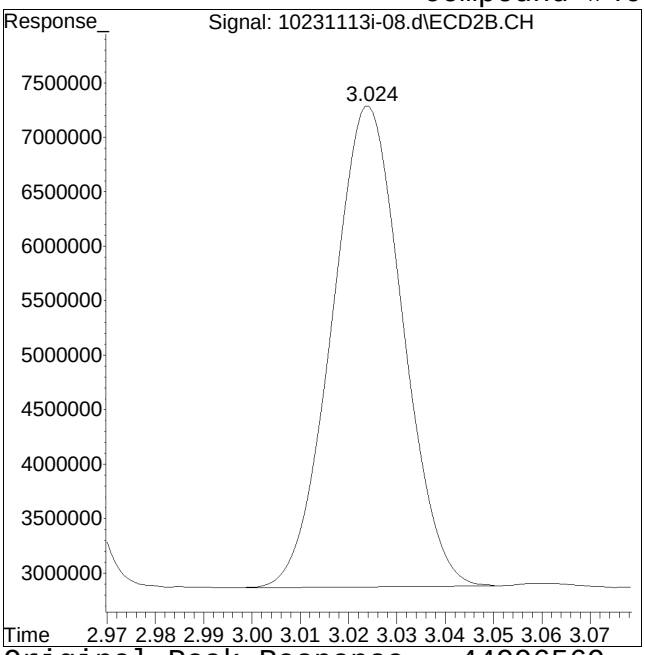
M4 = Poor automated baseline construction.

Manual Integration Report

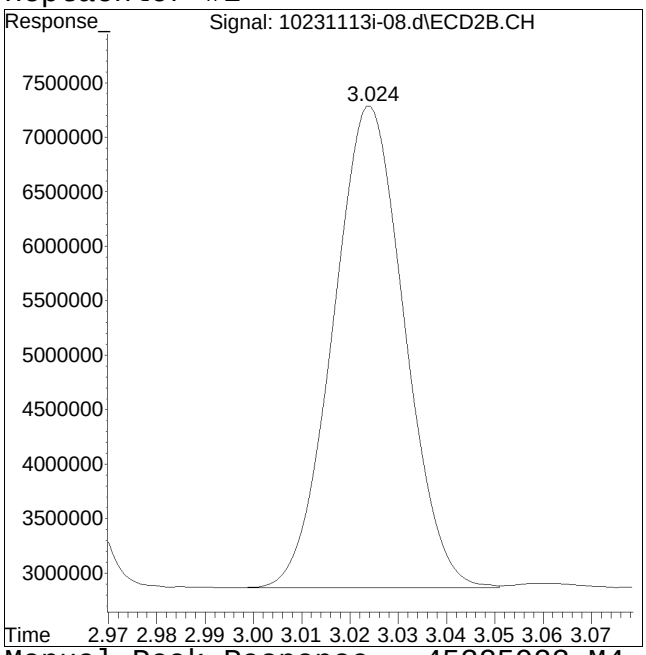
Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-08.d
Date Inj'd : 11/13/2023 5:40 pm
Sample : il7pest,42e,,pp 11401 L0.0

Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 8:42 am

Compound #46: Heptachlor #2



Original Peak Response = 44996569



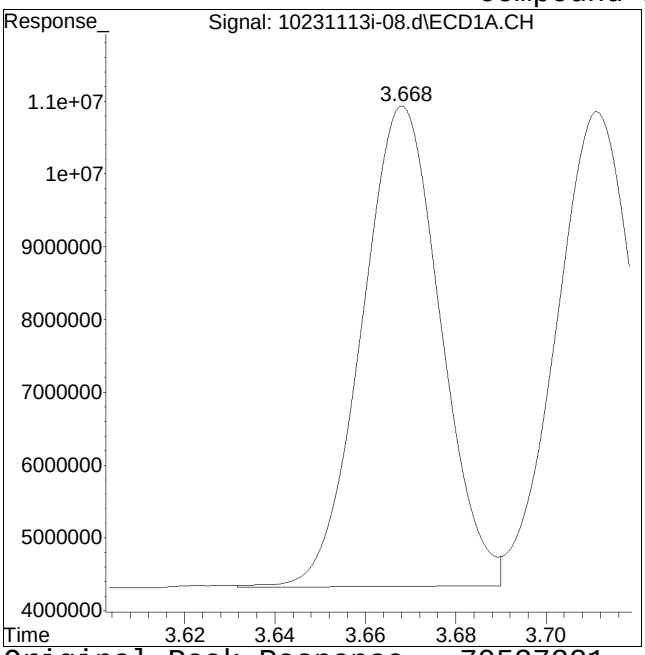
Manual Peak Response = 45325923 M4

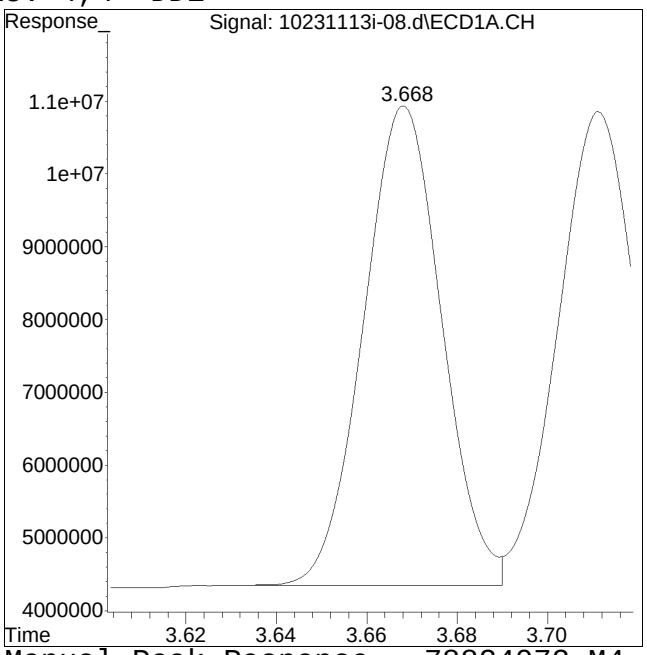
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-08.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:40 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 11/14/2023 8:42 am

Compound #15: 4,4'-DDE



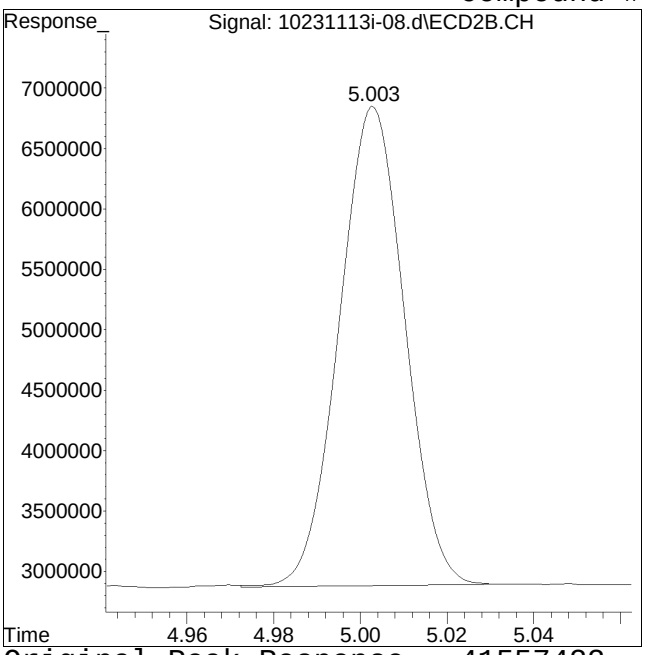


Original Peak Response = 79527221 Manual Peak Response = 78824072 M4
M4 = Poor automated baseline construction.

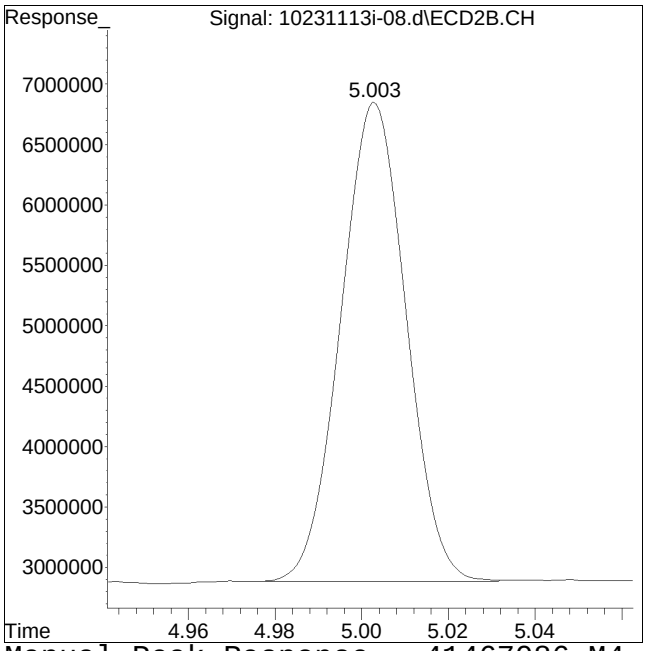
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-08.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:40 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 11/14/2023 8:42 am

Compound #56: Endrin #2



Original Peak Response = 41557422



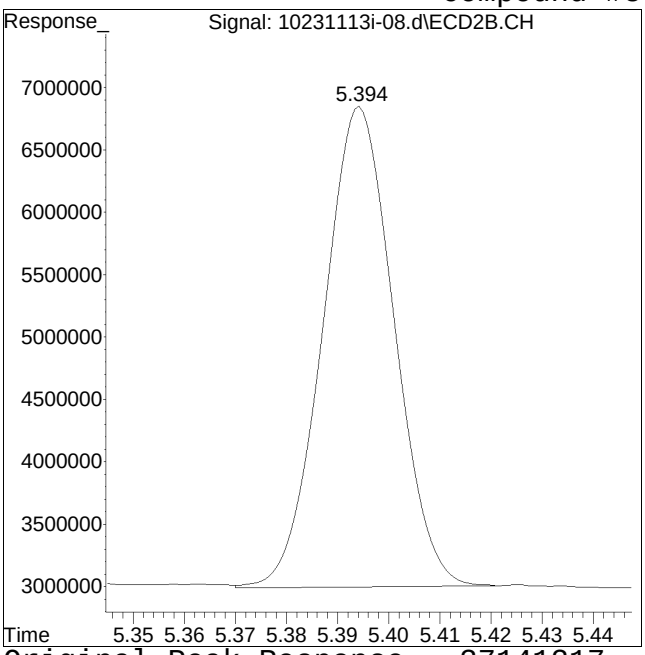
Manual Peak Response = 41467086 M4

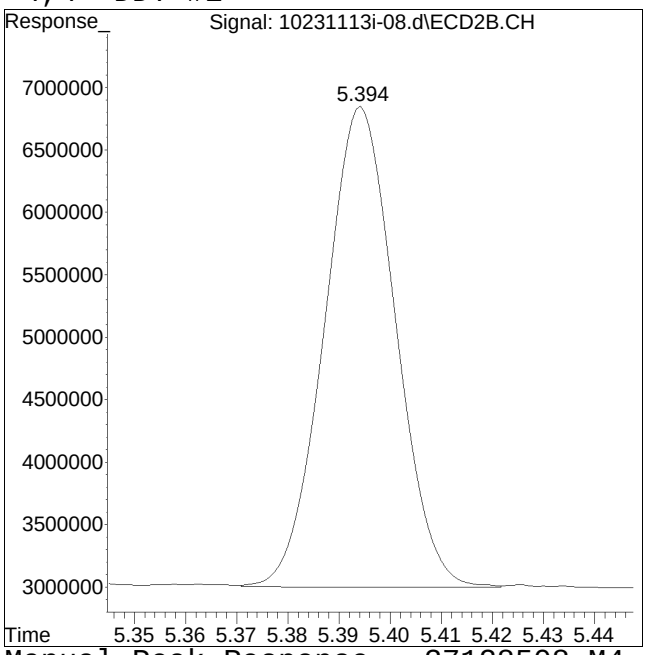
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-08.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:40 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 11/14/2023 8:42 am

Compound #59: 4,4'-DDT #2



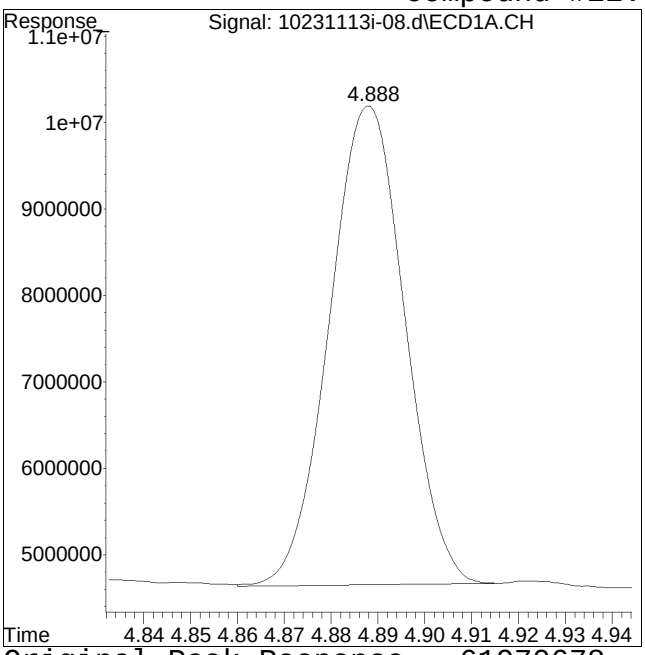


Original Peak Response = 37141217 Manual Peak Response = 37128508 M4
M4 = Poor automated baseline construction.

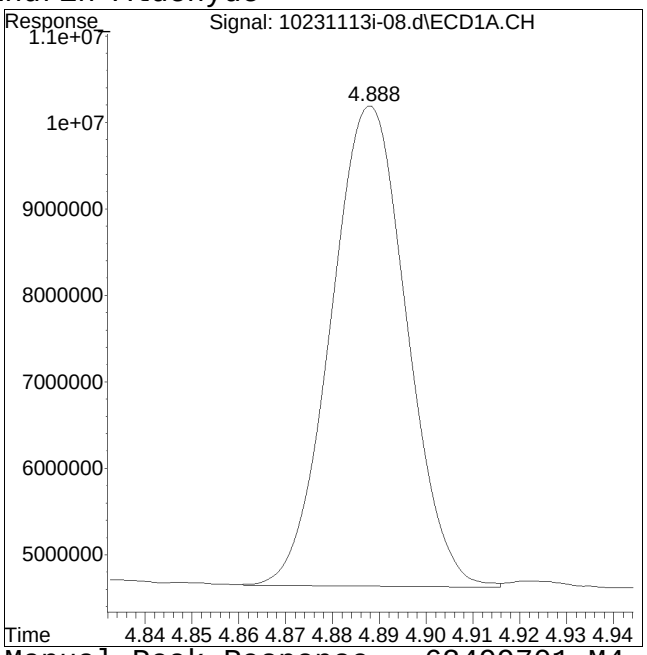
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-08.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:40 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 11/14/2023 8:42 am

Compound #22: Endrin Aldehyde



Original Peak Response = 61970678



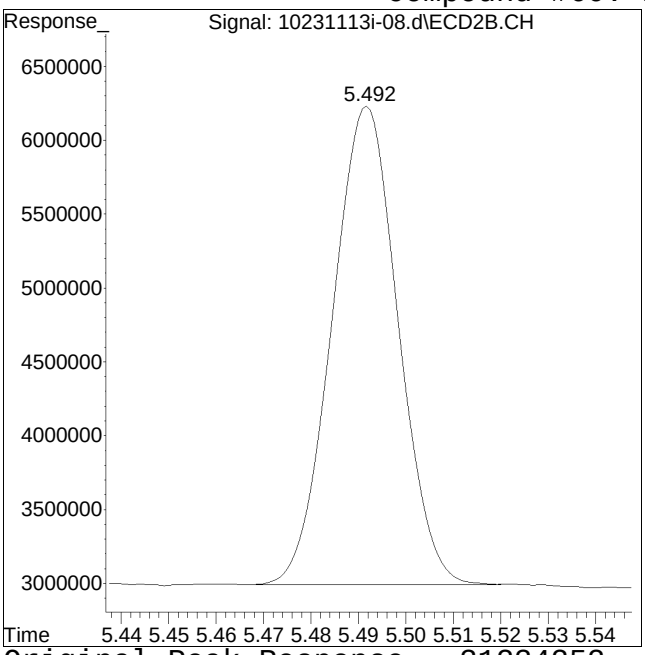
Manual Peak Response = 62499701 M4

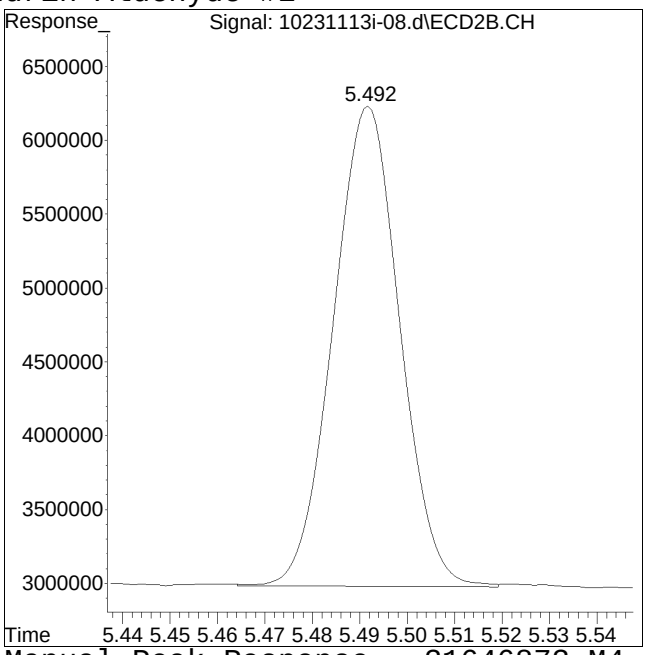
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-08.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:40 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 11/14/2023 8:42 am

Compound #60: Endrin Aldehyde #2



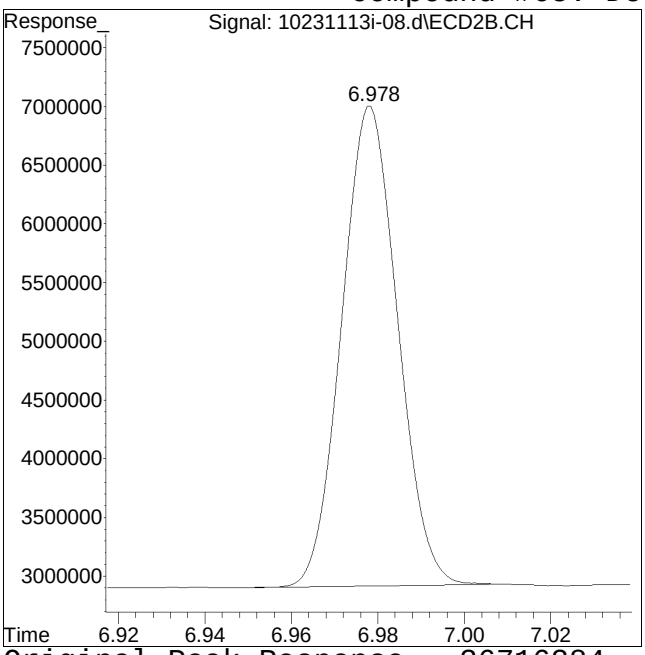


Original Peak Response = 31234252 Manual Peak Response = 31646873 M4
M4 = Poor automated baseline construction.

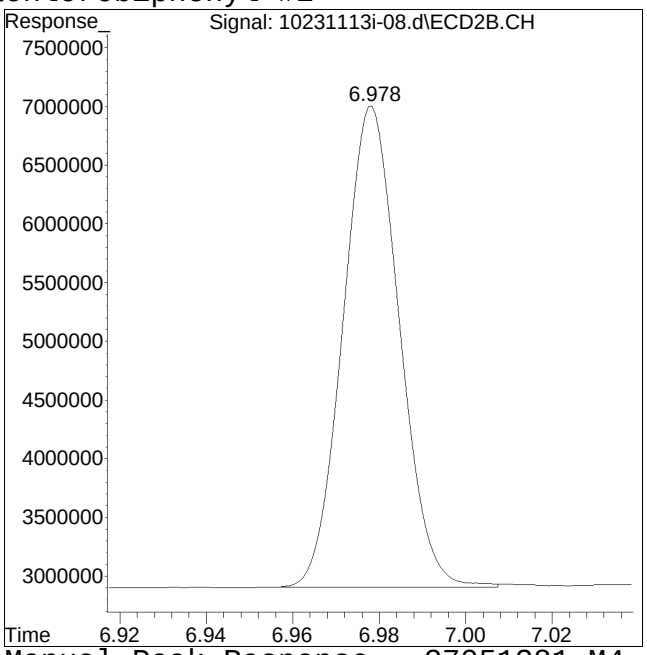
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-08.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:40 pm Instrument : Pest 10
Sample : il7pest,42e,,pp 11401 L0.0Quant Date : 11/14/2023 8:42 am

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 36716284



Manual Peak Response = 37051381 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:51 pm
Operator : PEST10:ejl
Sample : il8pest,42e,,pp 11400 L0.05
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:27:10 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Mon Nov 13 13:12:59 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
		Internal Standards						
1)	i	1-br-2-nb_Pe	1.315	1.408	179.2E6	74924554	25.000M4	25.000M3
28)	i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33)	i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
		System Monitoring Compounds						
2)	s	2,4,5,6-Tetr	1.659	1.897	342.0E6	148.8E6	NoCal	NoCal
		Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27)	s	Decachlorobi	6.306	6.978	321.4E6	158.3E6	NoCal	NoCal
		Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
		Target Compounds						
3)	t	Hexachlorobe	1.874	2.226	368.8E6	167.3E6	NoCal M3	NoCal
4)	t	alpha-BHC	1.974	2.324	512.5E6	229.7E6	NoCal	NoCal
5)	t	gamma-BHC (l	2.177	2.617	470.6E6	212.4E6	NoCal	NoCal
6)	t	beta-BHC	2.233	2.682	200.2E6	94626082	NoCal	NoCal M4
7)	t	delta-BHC	2.362	2.955	481.3E6	217.6E6	NoCal	NoCal
8)	t	Heptachlor	2.524	3.023	449.3E6	219.2E6	NoCal	NoCal
9)	t	Aldrin	2.767	3.349	419.6E6	204.4E6	NoCal	NoCal
10)	t	Alachlor	2.891	3.227	94752320	30359056	NoCal M4	NoCal
11)	t	Chlorpyrifos	2.980	3.587	201.9E6	111.4E6	NoCal M4	NoCal M4
12)	t	Heptachlor E	3.314	3.974	402.3E6	201.5E6	NoCal	NoCal
13)	t	gamma-Chlord	3.437	4.197	361.0E6	180.5E6	NoCal	NoCal
14)	t	alpha-Chlord	3.572	4.364	410.0E6	202.2E6	NoCal	NoCal
15)	t	4,4'-DDE	3.668	4.554	404.4E6	198.9E6	NoCal	NoCal
16)	t	Endosulfan I	3.711	4.423	385.3E6	191.6E6	NoCal	NoCal
17)	t	Dieldrin	3.971	4.709	400.8E6	197.4E6	NoCal	NoCal
18)	t	Endrin	4.228	5.003	419.6E6	204.5E6	NoCal	NoCal
19)	t	4,4'-DDD	4.336	5.120	331.0E6	162.3E6	NoCal	NoCal
20)	t	Endosulfan I	4.469	5.198	372.7E6	184.8E6	NoCal	NoCal
21)	t	4,4'-DDT	4.628	5.394	375.7E6	185.0E6	NoCal	NoCal

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:51 pm
Operator : PEST10:ejl
Sample : il8pest,42e,,pp 11400 L0.05
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:27:10 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Mon Nov 13 13:12:59 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
22) t	Endrin Aldeh	4.888	5.491	311.5E6	153.8E6	NoCal	NoCal
23) t	Methoxychlor	5.114	5.951	206.3E6	100.3E6	NoCal	NoCal M4
24) t	Mirex	5.171	6.093	312.3E6	156.2E6	NoCal	NoCal
25) t	Endosulfan S	5.282	5.717	359.3E6	177.9E6	NoCal	NoCal
26) t	Endrin Keton	5.508	6.126	418.9E6	197.7E6	NoCal	NoCal
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

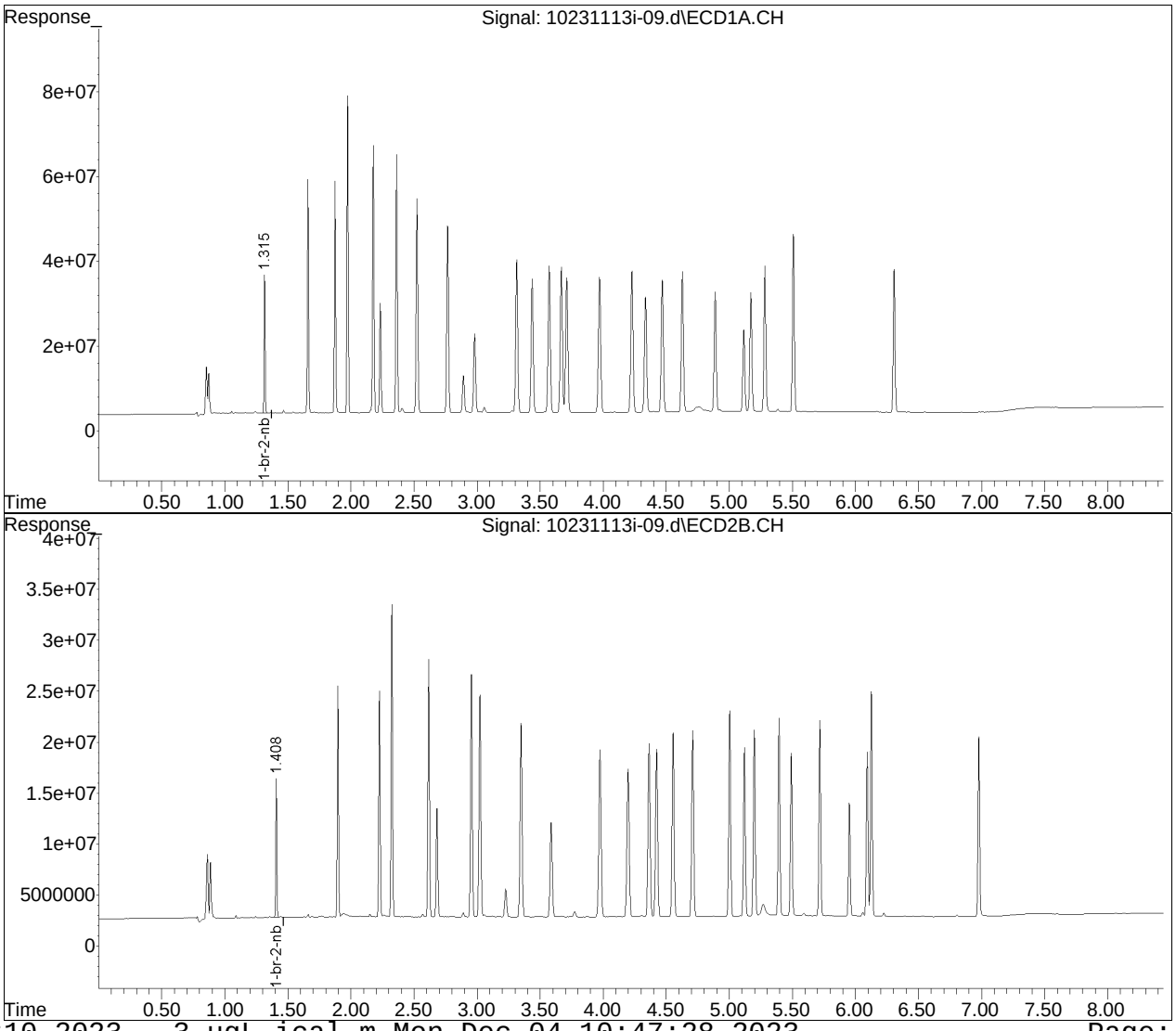
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 5:51 pm
Operator : PEST10:ejl
Sample : il8pest,42e,,pp 11400 L0.05
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:27:10 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Mon Nov 13 13:12:59 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

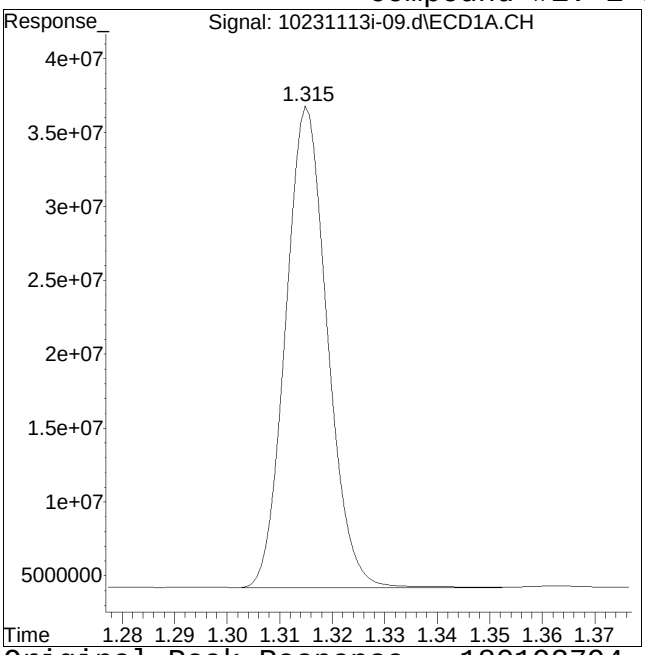
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



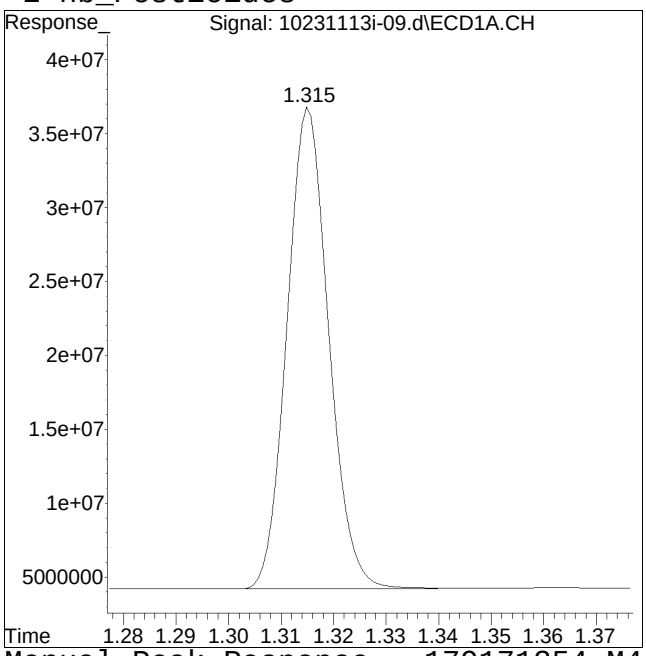
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-09.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:51 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 11/14/2023 8:25 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 180192794



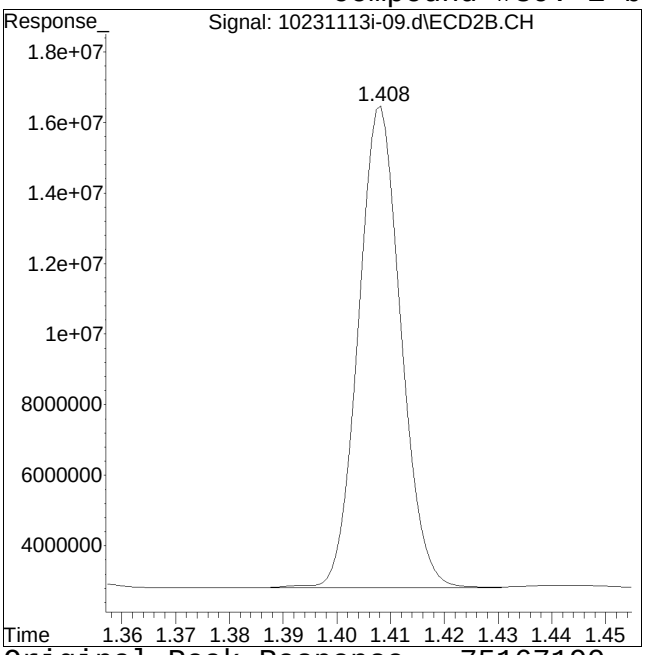
Manual Peak Response = 179171354 M4

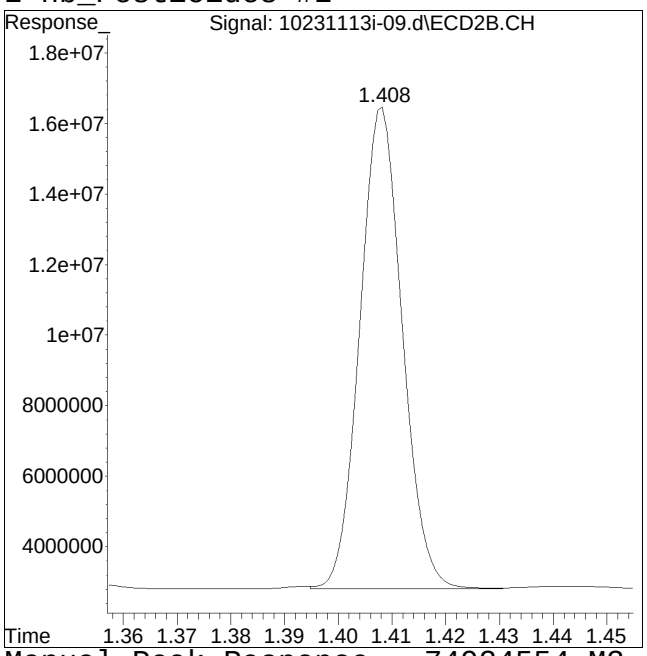
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-09.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:51 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 11/14/2023 8:25 am

Compound #39: 1-br-2-nb_Pesticides #2



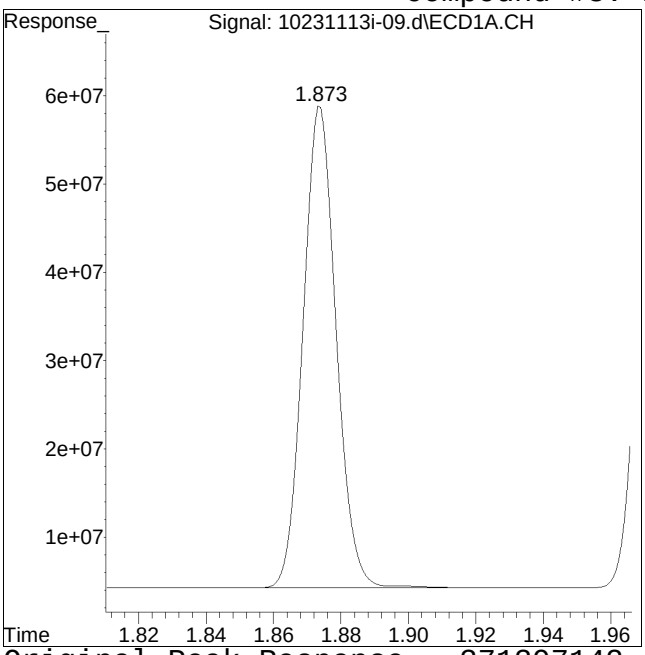


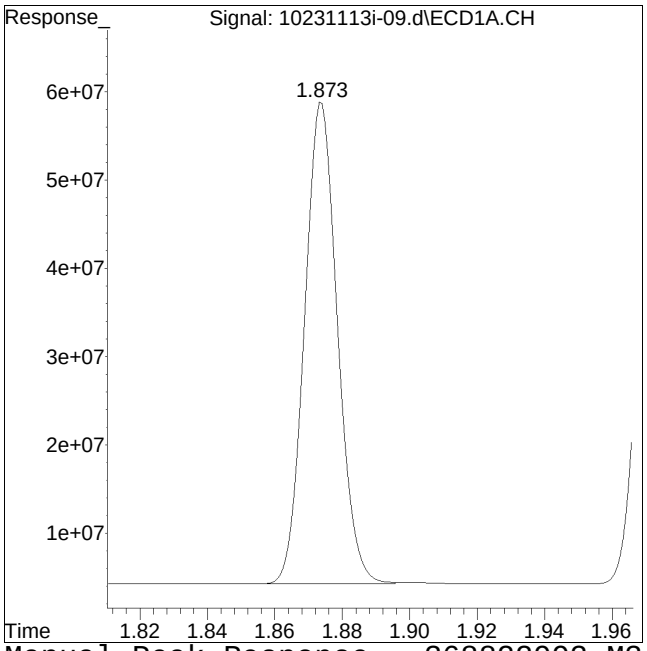
Original Peak Response = 75167190 Manual Peak Response = 74924554 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-09.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:51 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 11/14/2023 8:25 am

Compound #3: Hexachlorobenzene



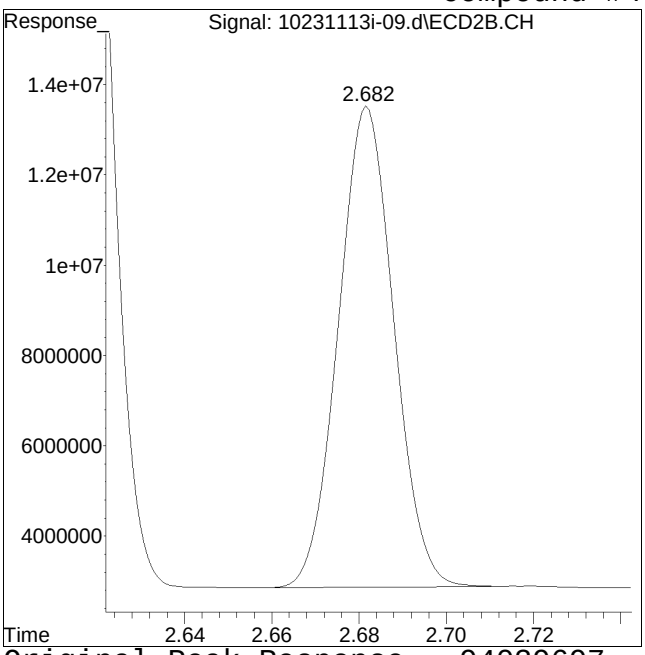


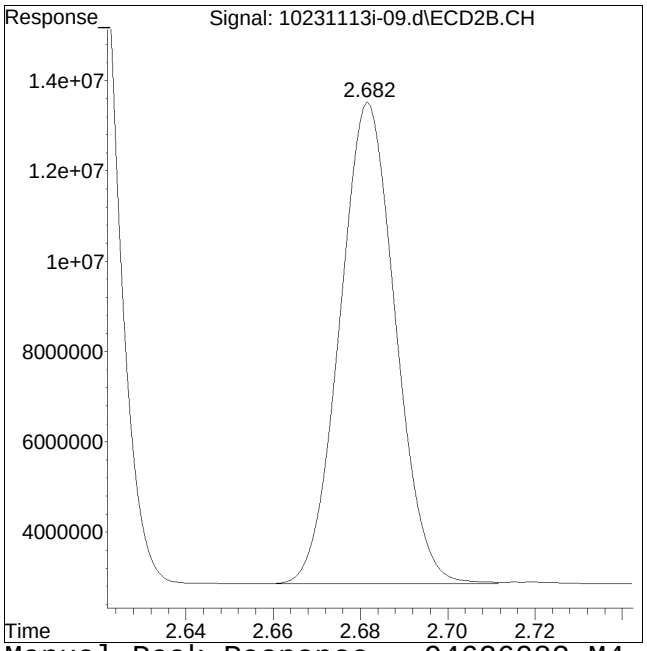
Original Peak Response = 371397142 Manual Peak Response = 368822993 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-09.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:51 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 11/14/2023 8:25 am

Compound #44: beta-BHC #2





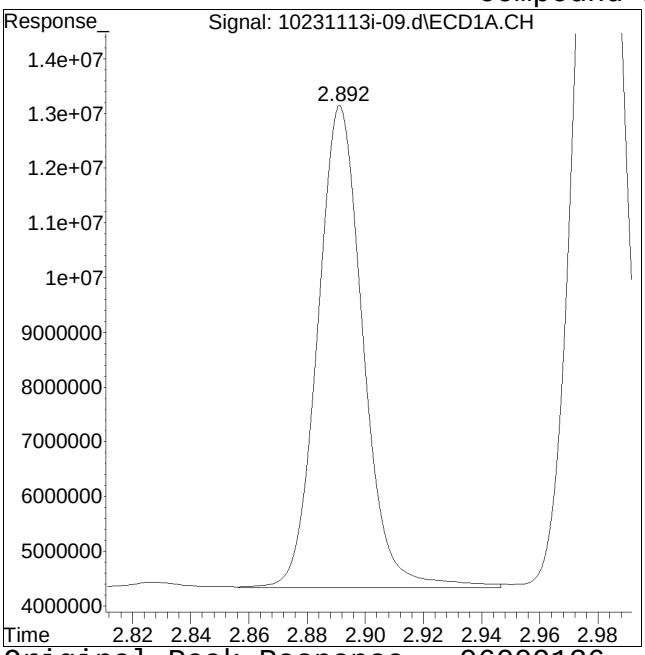
Original Peak Response = 94039697 Manual Peak Response = 94626082 M4
M4 = Poor automated baseline construction.

Manual Integration Report

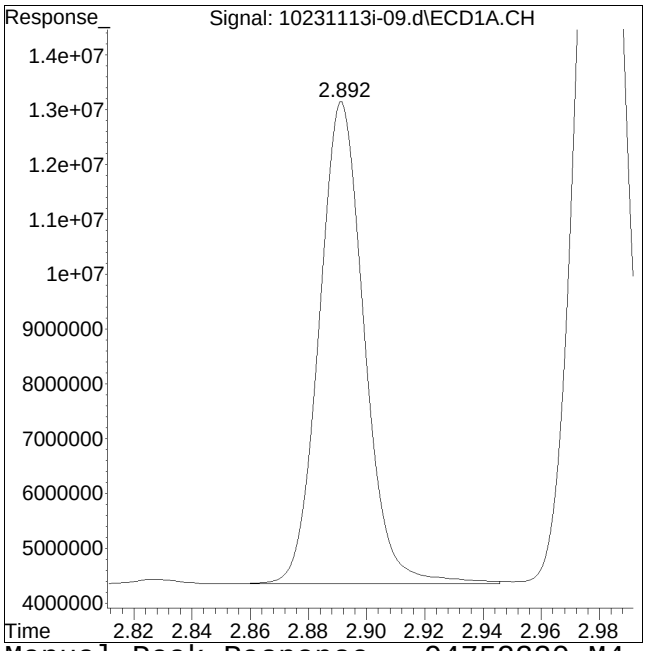
Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-09.d
Date Inj'd : 11/13/2023 5:51 pm
Sample : il8pest,42e,,pp 11400 L0.0

Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 8:25 am

Compound #10: Alachlor



Original Peak Response = 96009136



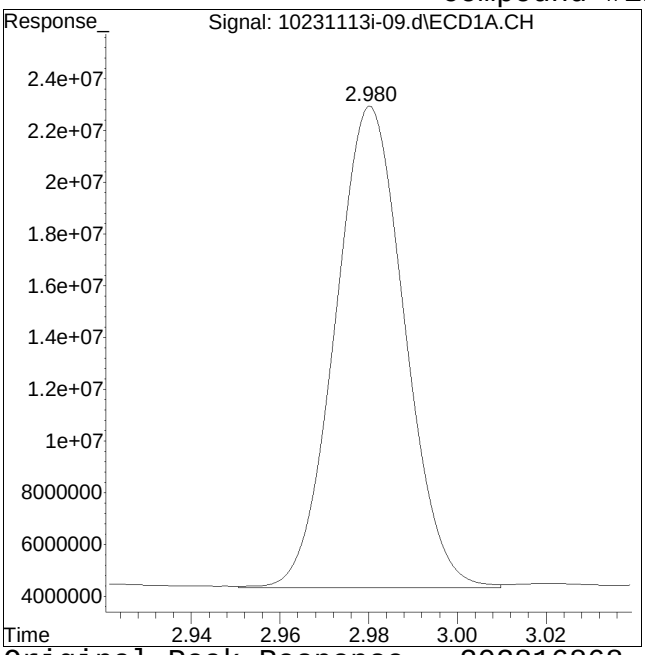
Manual Peak Response = 94752320 M4

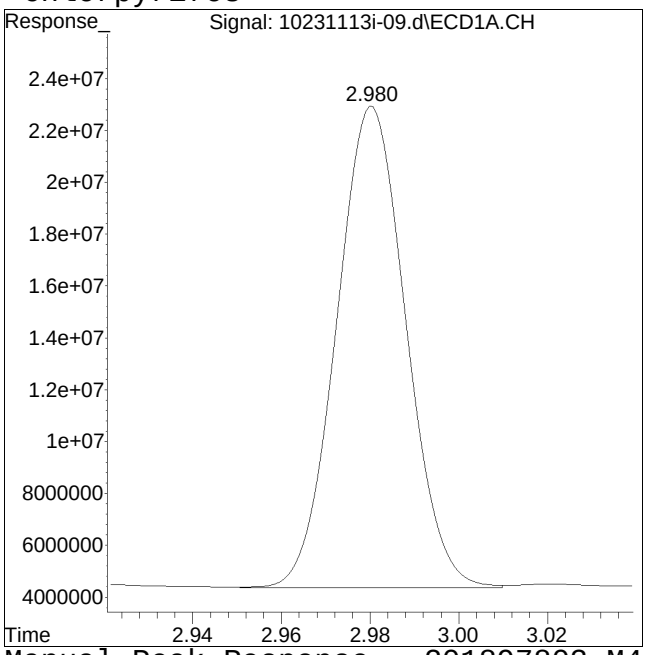
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-09.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:51 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 11/14/2023 8:25 am

Compound #11: Chlorpyrifos



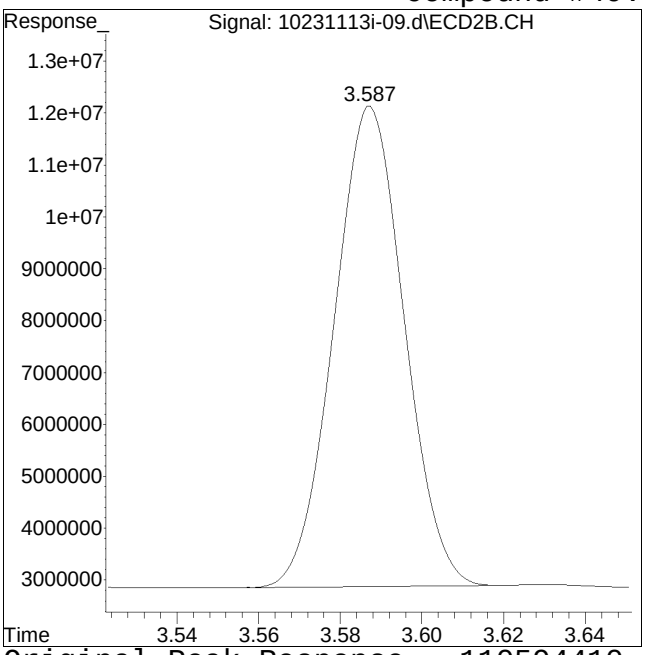


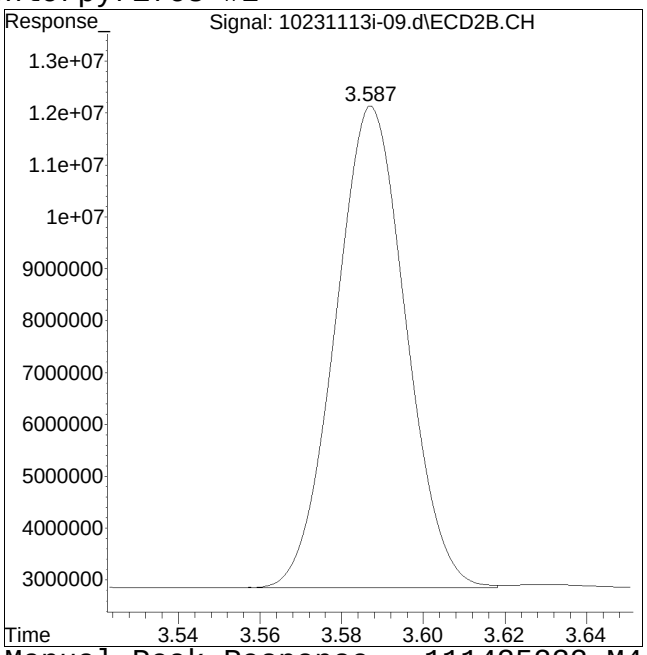
Original Peak Response = 202816868 Manual Peak Response = 201897803 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-09.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:51 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 11/14/2023 8:25 am

Compound #49: Chlorpyrifos #2



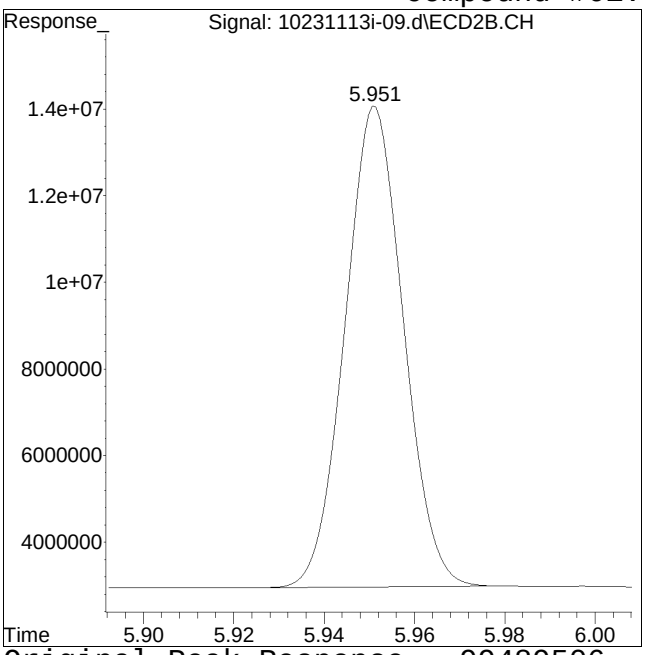


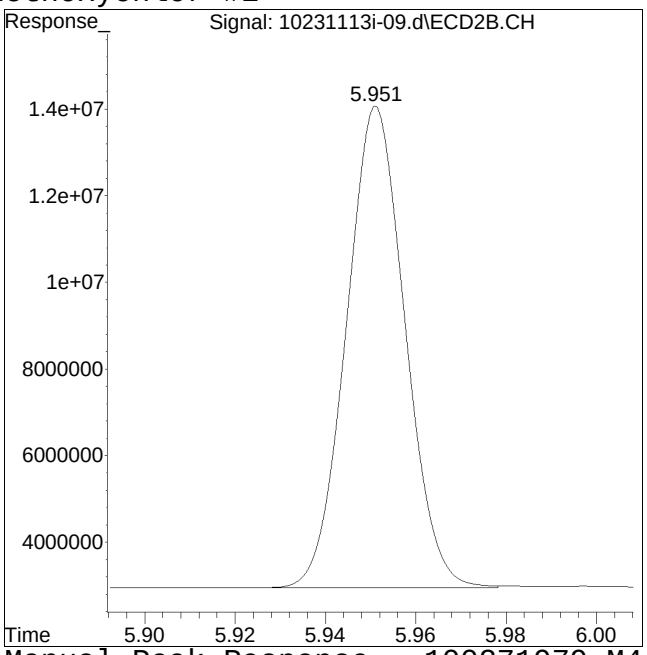
Original Peak Response = 110594410 Manual Peak Response = 111425232 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-09.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 5:51 pm Instrument : Pest 10
Sample : il8pest,42e,,pp 11400 L0.0Quant Date : 11/14/2023 8:25 am

Compound #61: Methoxychlor #2





Original Peak Response = 99489506 Manual Peak Response = 100271979 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:02 pm
Operator : PEST10:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:30:13 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:27:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.315	1.408	180.0E6	75361878	25.000M4	25.000M3
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.659	1.897	689.1E6	298.2E6	100.323	99.601
	Spiked Amount 50.000	Range 30 - 150		Recovery =		200.65%#	199.20%#
27) s	Decachlorobi	6.307	6.978	645.9E6	316.4E6	100.039	99.354
	Spiked Amount 50.000	Range 30 - 150		Recovery =		200.08%#	198.71%#
	Target Compounds						
3) t	Hexachlorobe	1.874	2.226	740.6E6	334.8E6	99.968	99.473
4) t	alpha-BHC	1.974	2.325	1061.5E6	482.2E6	103.122	104.348
5) t	gamma-BHC (l	2.177	2.617	973.7E6	440.8E6	102.997M4	103.196
6) t	beta-BHC	2.233	2.682	405.6E6	188.6E6	100.847	99.059M4
7) t	delta-BHC	2.362	2.956	1008.7E6	456.9E6	104.331M4	104.381
8) t	Heptachlor	2.524	3.023	922.3E6	448.2E6	102.201	101.617
9) t	Aldrin	2.767	3.349	869.9E6	424.3E6	103.205	103.171
10) t	Alachlor	2.892	3.227	185.1E6	57868740	97.228	94.754
11) t	Chlorpyrifos	2.981	3.588	393.7E6	215.2E6	97.088	96.028
12) t	Heptachlor E	3.315	3.975	818.2E6	410.9E6	101.251	101.335
13) t	gamma-Chlord	3.437	4.198	748.7E6	373.2E6	103.243	102.777
14) t	alpha-Chlord	3.572	4.363	847.0E6	415.1E6	102.852	102.057
15) t	4,4'-DDE	3.668	4.554	855.8E6	419.3E6	105.367	104.783
16) t	Endosulfan I	3.711	4.424	791.7E6	390.1E6	102.303	101.226
17) t	Dieldrin	3.972	4.710	836.9E6	408.0E6	103.954	102.753
18) t	Endrin	4.228	5.003	869.8E6	423.8E6	103.208	103.001
19) t	4,4'-DDD	4.336	5.120	701.7E6	341.8E6	105.526	104.719
20) t	Endosulfan I	4.468	5.199	769.7E6	375.5E6	102.829	101.018
21) t	4,4'-DDT	4.628	5.394	799.1E6	386.3E6	105.883	103.767M4
22) t	Endrin Aldeh	4.888	5.492	652.3E6	316.8E6	104.239M4	102.433

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:02 pm
Operator : PEST10:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:30:13 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:27:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	5.115	5.952	419.4E6	201.1E6	101.219	99.711
24) t	Mirex	5.171	6.093	636.0E6	308.3E6	101.368	98.116
25) t	Endosulfan S	5.282	5.718	740.5E6	362.2E6	102.600	101.186
26) t	Endrin Keton	5.508	6.127	854.5E6	403.8E6	101.550	101.518
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

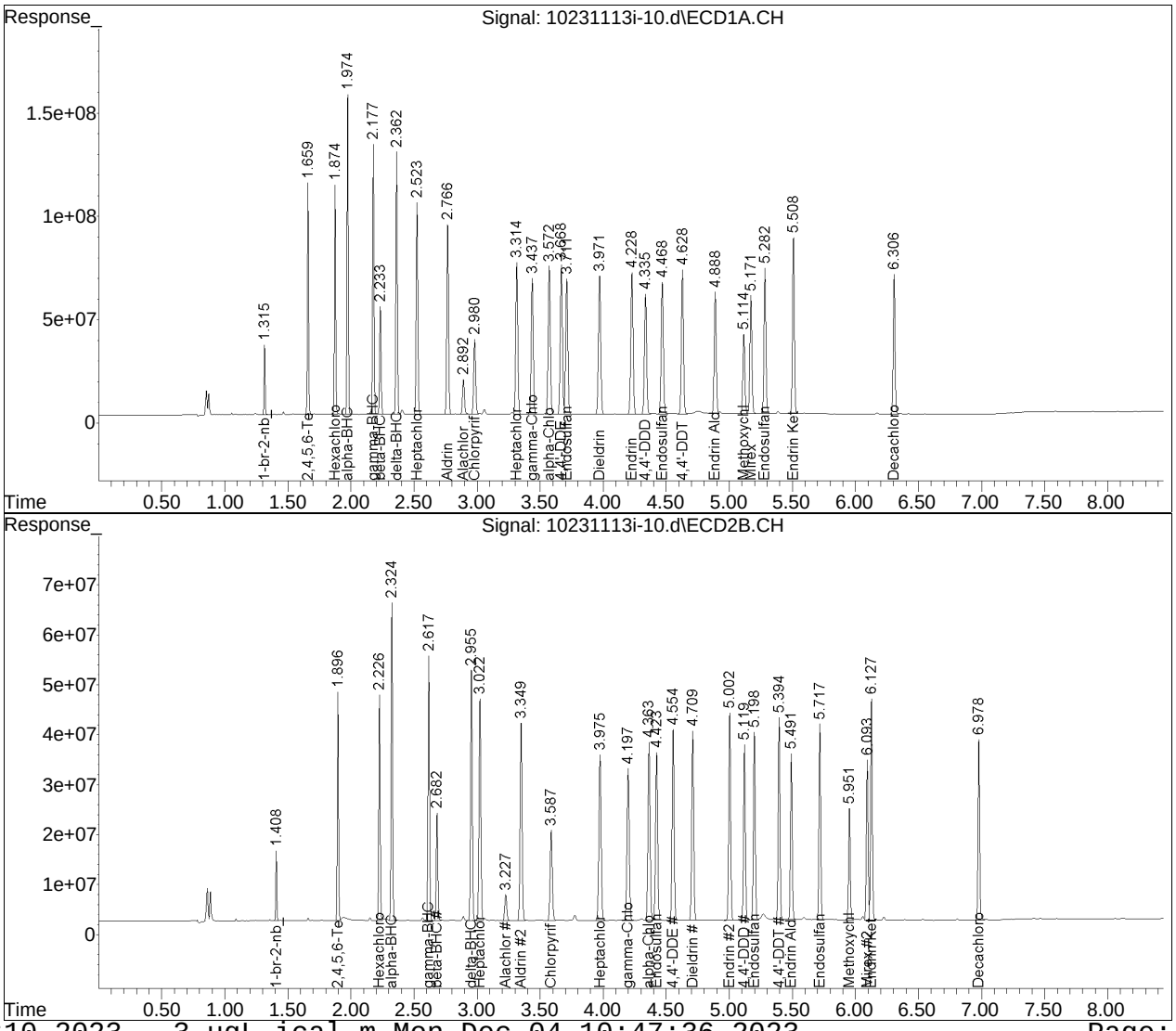
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:02 pm
Operator : PEST10:ejl
Sample : il9pest,42e,,pp 11399 L0.1
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:30:13 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:27:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

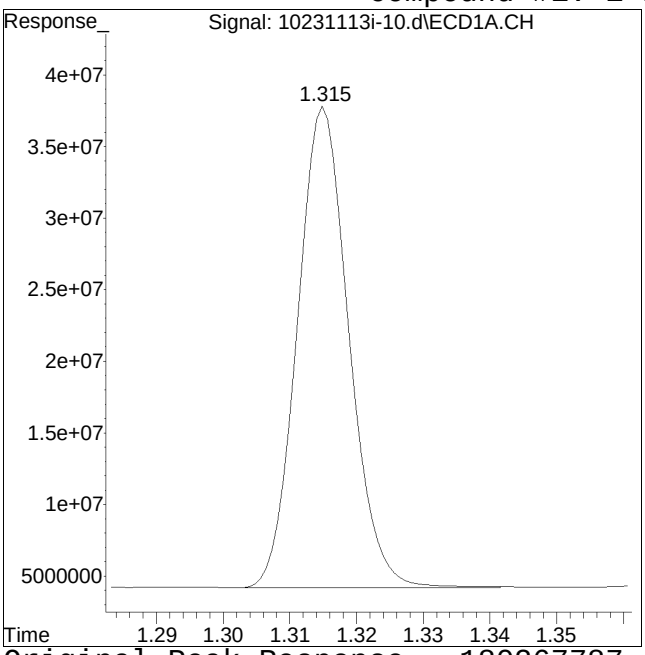
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

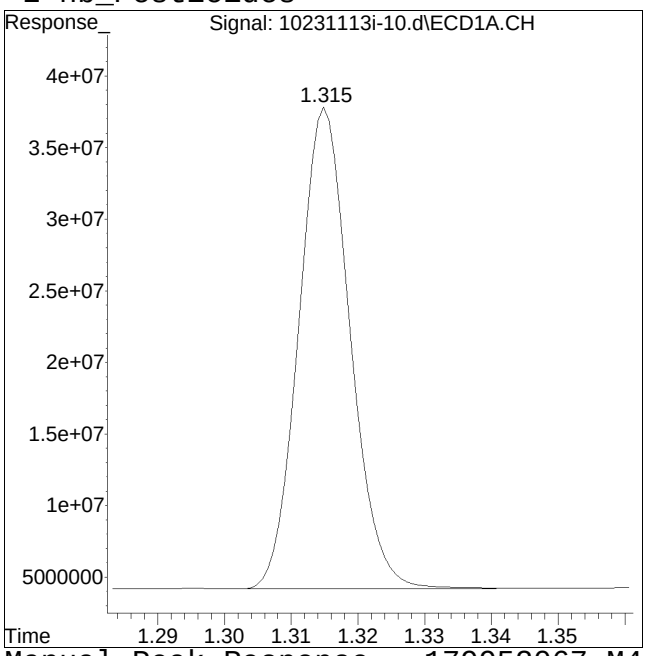


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-10.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:02 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 11/14/2023 8:27 am

Compound #1: 1-br-2-nb_Pesticides





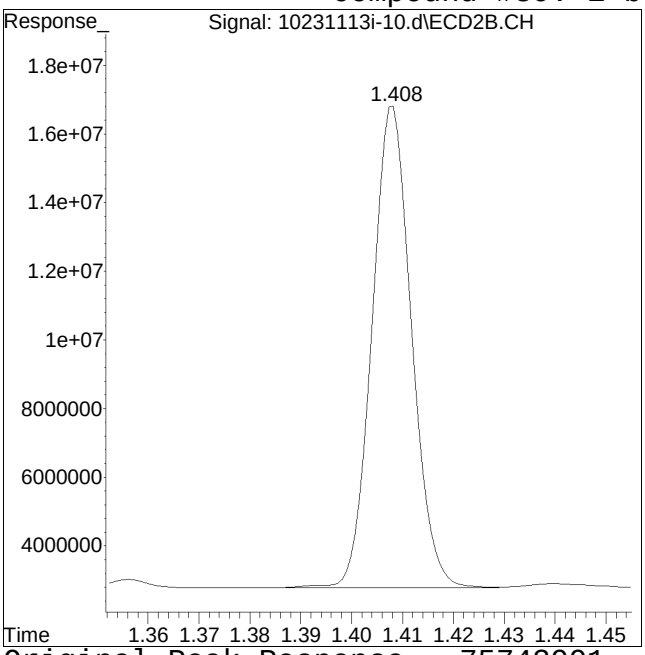
Original Peak Response = 180267787 Manual Peak Response = 179952067 M4
M4 = Poor automated baseline construction.

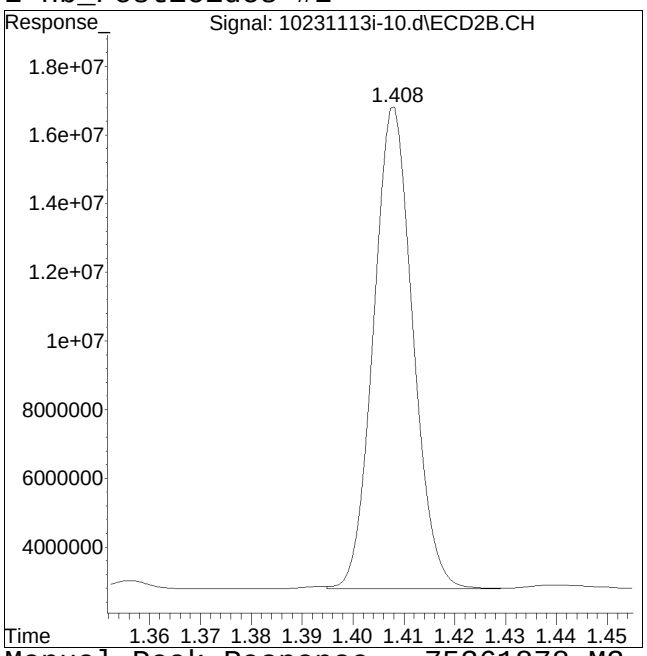
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-10.d
Date Inj'd : 11/13/2023 6:02 pm
Sample : il9pest,42e,,pp 11399 L0.1

Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 8:27 am

Compound #39: 1-br-2-nb_Pesticides #2





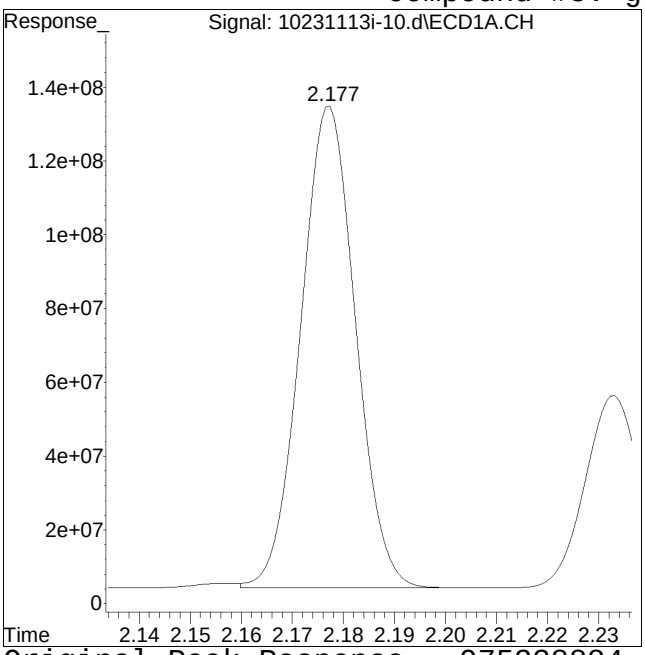
Original Peak Response = 75743991 Manual Peak Response = 75361878 M3

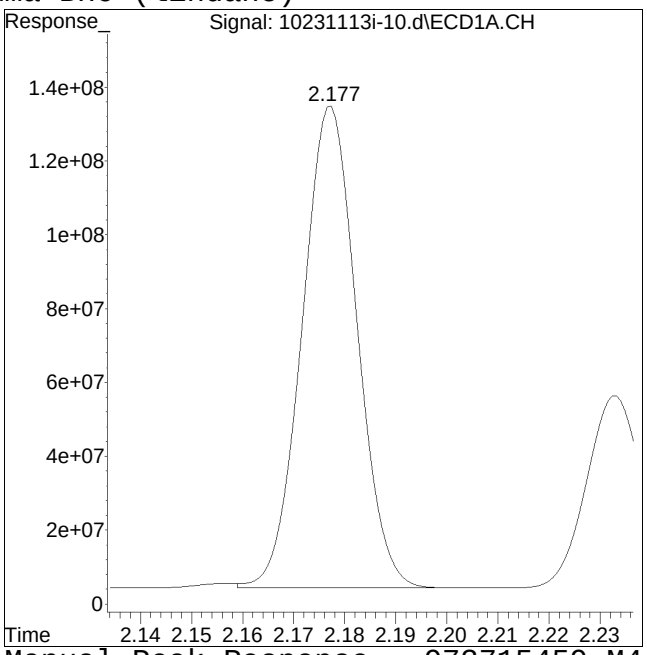
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-10.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:02 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 11/14/2023 8:27 am

Compound #5: gamma-BHC (lindane)



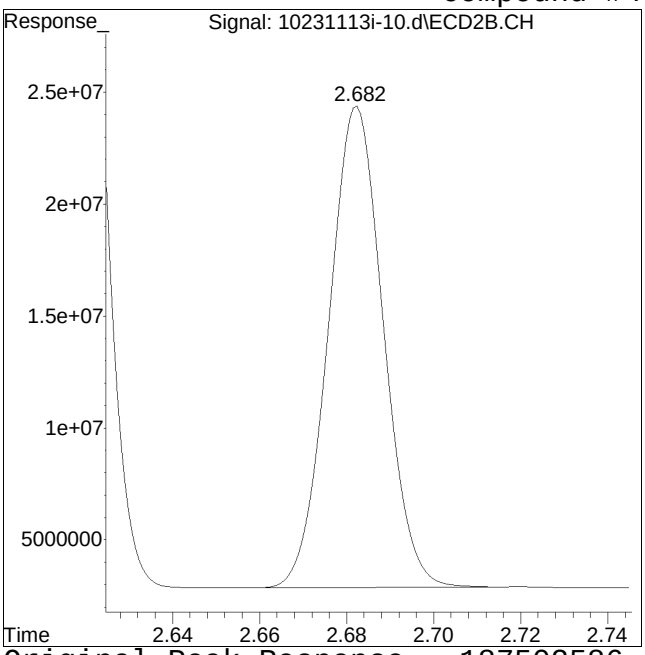


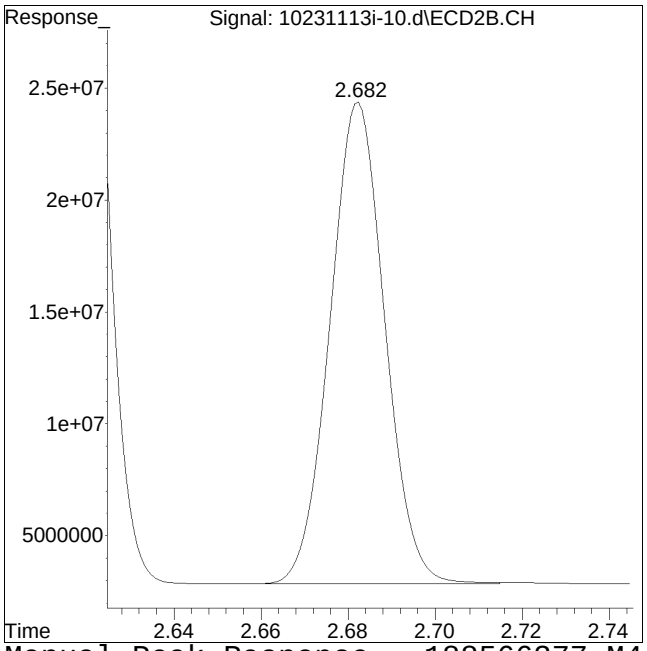
Original Peak Response = 975338884 Manual Peak Response = 973715459 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-10.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:02 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 11/14/2023 8:27 am

Compound #44: beta-BHC #2



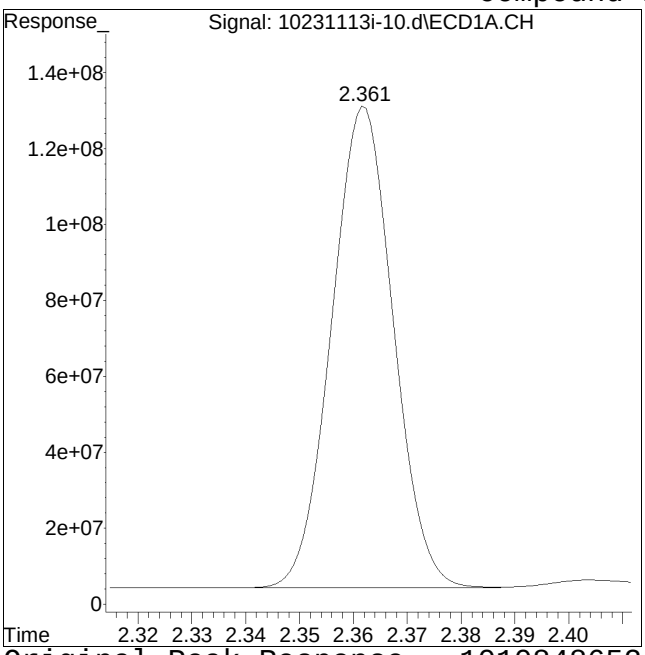


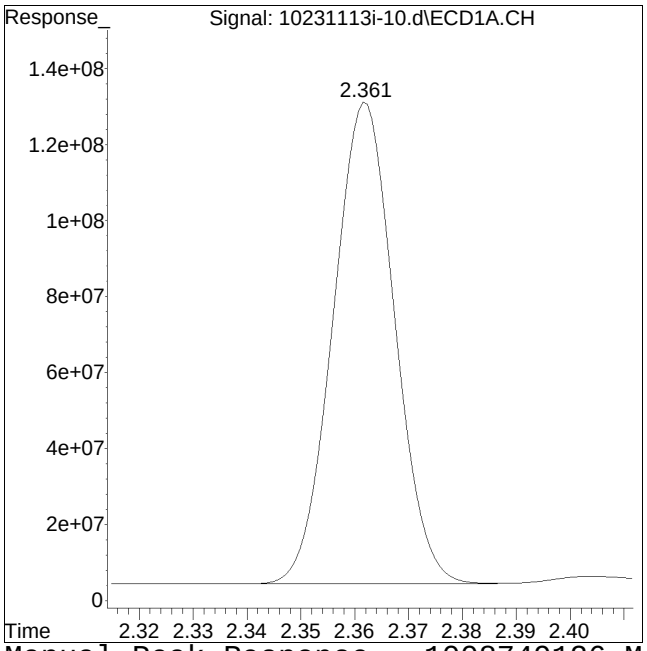
Original Peak Response = 187502586 Manual Peak Response = 188566377 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-10.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:02 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 11/14/2023 8:27 am

Compound #7: delta-BHC



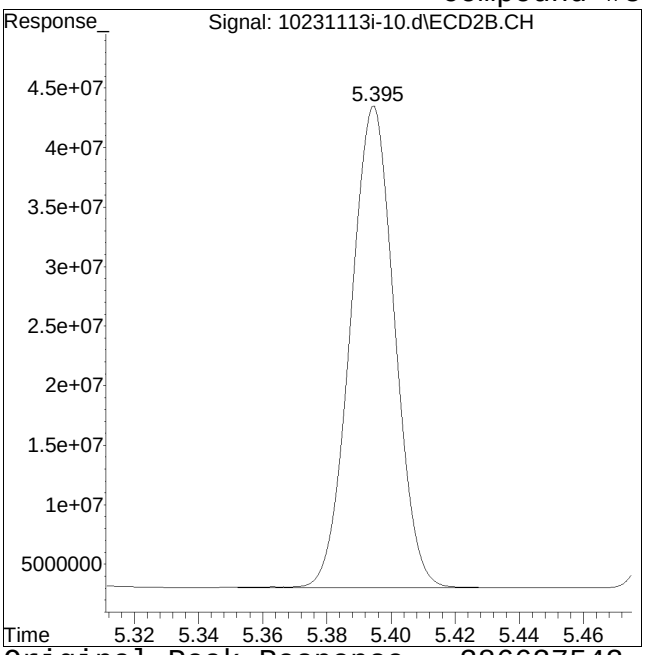


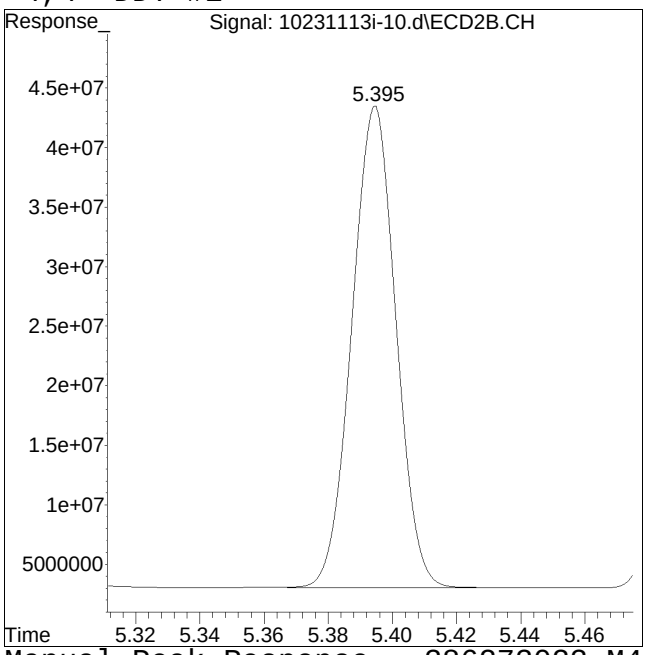
Original Peak Response = 1010848652 Manual Peak Response = 1008749126 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-10.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:02 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 11/14/2023 8:27 am

Compound #59: 4,4'-DDT #2



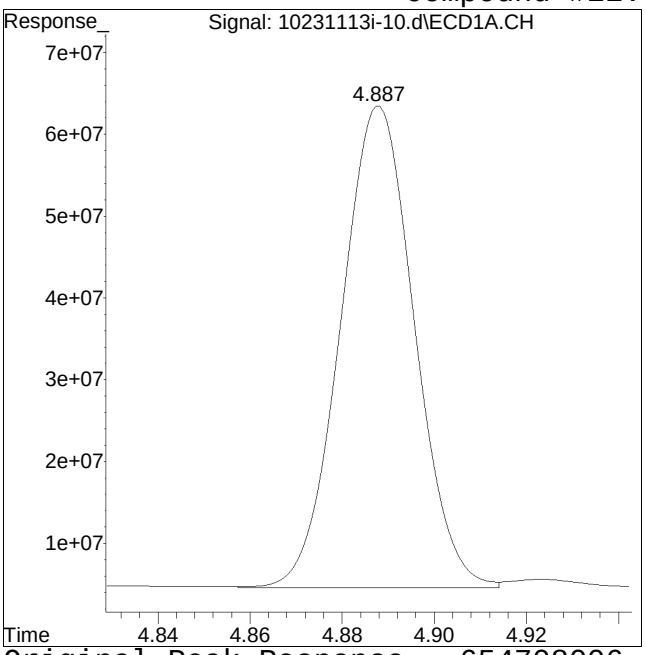


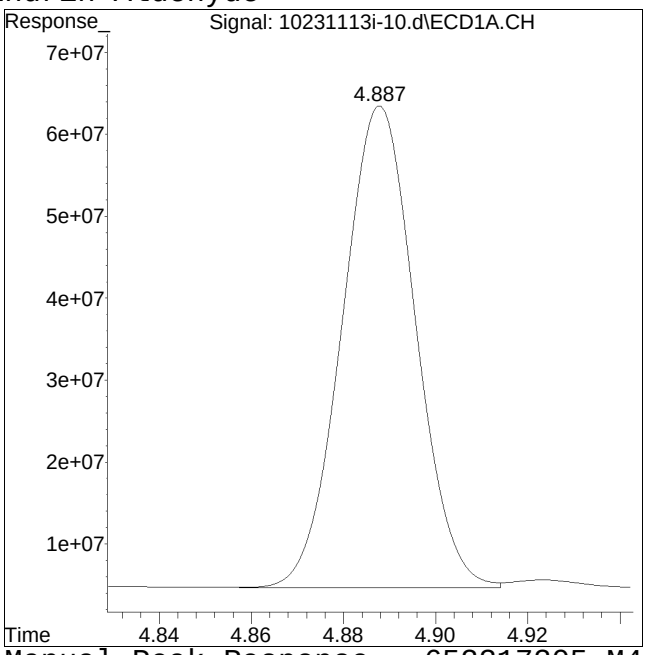
Original Peak Response = 386637542 Manual Peak Response = 386273023 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-10.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:02 pm Instrument : Pest 10
Sample : il9pest,42e,,pp 11399 L0.1Quant Date : 11/14/2023 8:27 am

Compound #22: Endrin Aldehyde





Original Peak Response = 654708006 Manual Peak Response = 652317305 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:13 pm
Operator : PEST10:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:38:30 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:30:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.316	1.407	182.0E6	74367136	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.661	1.896	1387.1E6	606.7E6	199.376	205.799
	Spiked Amount 50.000	Range 30 - 150		Recovery =		398.75%#	411.60%#
27) s	Decachlorobi	6.307	6.977	1293.4E6	625.3E6	198.079	199.617
	Spiked Amount 50.000	Range 30 - 150		Recovery =		396.16%#	399.23%#
	Target Compounds						
3) t	Hexachlorobe	1.875	2.226	1501.4E6	672.8E6	200.445	203.117
4) t	alpha-BHC	1.976	2.324	2206.4E6	999.1E6	208.707	214.444
5) t	gamma-BHC (l	2.179	2.616	2012.8E6	911.1E6	207.441	212.735
6) t	beta-BHC	2.235	2.682	822.8E6	379.2E6	201.442	202.830
7) t	delta-BHC	2.364	2.955	2112.5E6	958.0E6	211.483	217.014
8) t	Heptachlor	2.526	3.023	1850.0E6	903.5E6	200.514	205.946
9) t	Aldrin	2.769	3.349	1774.9E6	864.5E6	204.956	209.698
10) t	Alachlor	2.894	3.227	345.5E6	108.1E6	182.041	184.126
11) t	Chlorpyrifos	2.983	3.587	751.1E6	405.5E6	185.843	187.048
12) t	Heptachlor E	3.317	3.974	1650.3E6	822.4E6	200.690	204.187
13) t	gamma-Chlord	3.440	4.197	1547.5E6	760.8E6	207.648	209.453
14) t	alpha-Chlord	3.574	4.363	1733.8E6	842.9E6	205.263M3	207.894
15) t	4,4'-DDE	3.671	4.554	1750.4E6	855.8E6	207.546	211.648
16) t	Endosulfan I	3.713	4.423	1594.2E6	783.4E6	201.399	204.729
17) t	Dieldrin	3.974	4.709	1710.0E6	829.9E6	205.967	208.944
18) t	Endrin	4.230	5.002	1756.2E6	856.5E6	202.812	207.812
19) t	4,4'-DDD	4.337	5.119	1440.8E6	698.4E6	208.514	211.841M4
20) t	Endosulfan I	4.471	5.197	1550.6E6	752.6E6	201.991	204.137M4
21) t	4,4'-DDT	4.630	5.393	1630.8E6	791.8E6	207.586	211.561M3
22) t	Endrin Aldeh	4.890	5.491	1298.0E6	634.4E6	200.852	205.342M4

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:13 pm
Operator : PEST10:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:38:30 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:30:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	5.116	5.951	810.9E6	393.9E6	192.345	198.158M4
24) t	Mirex	5.172	6.093	1269.4E6	604.1E6	198.722	196.649
25) t	Endosulfan S	5.284	5.717	1492.6E6	732.6E6	201.873	206.159
26) t	Endrin Keton	5.510	6.126	1694.3E6	806.1E6	197.595	203.832
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

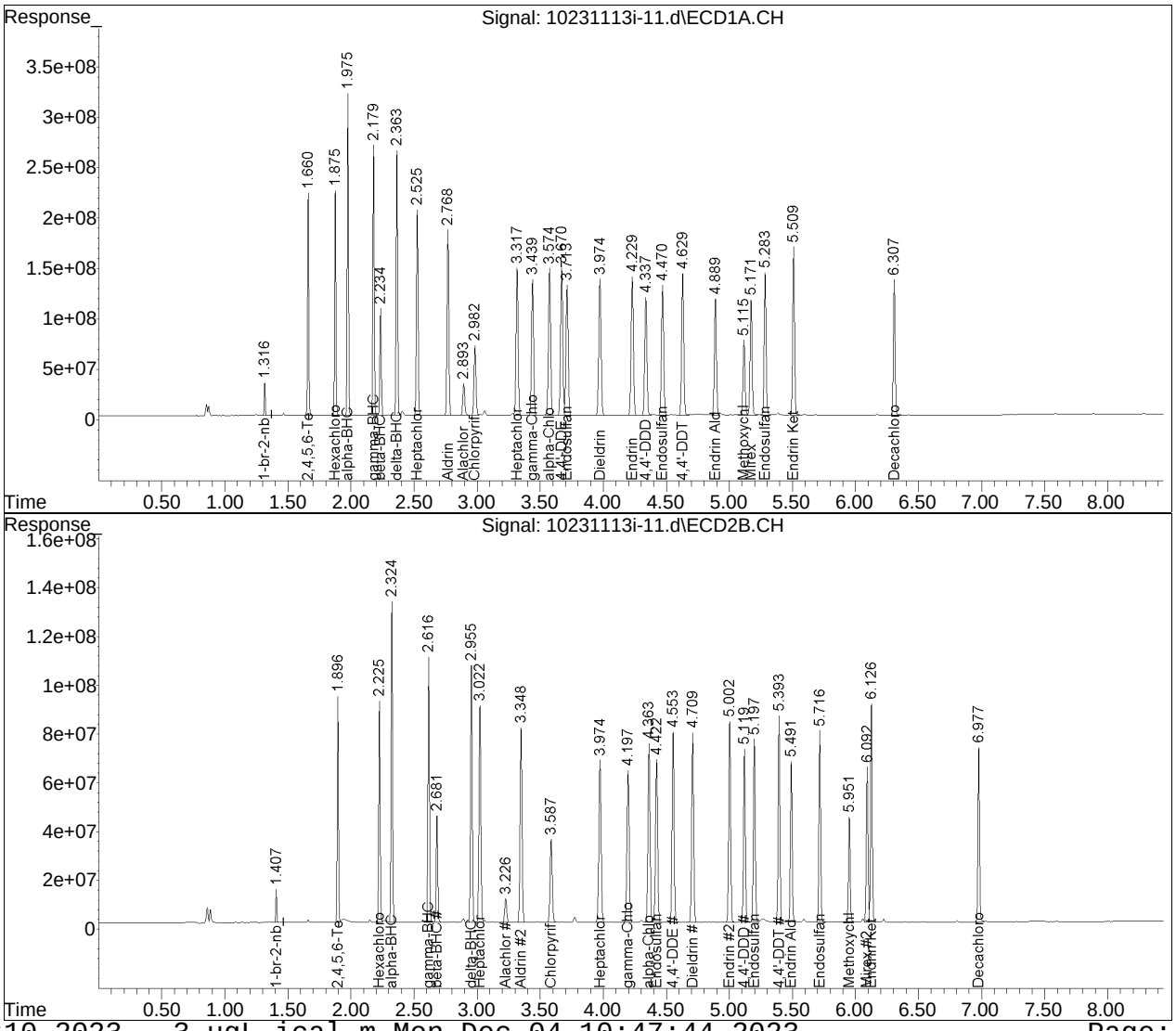
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:13 pm
Operator : PEST10:ejl
Sample : il10pest,42e,,pp 11398 L0.2
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:38:30 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:30:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

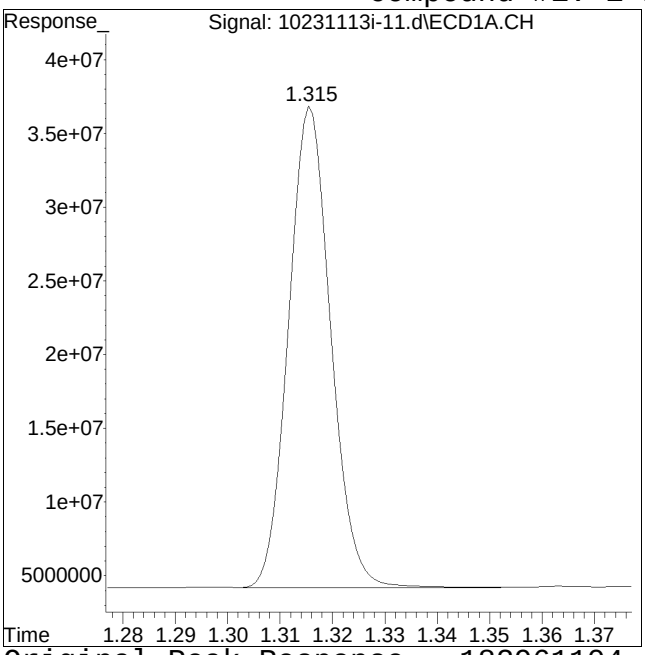
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



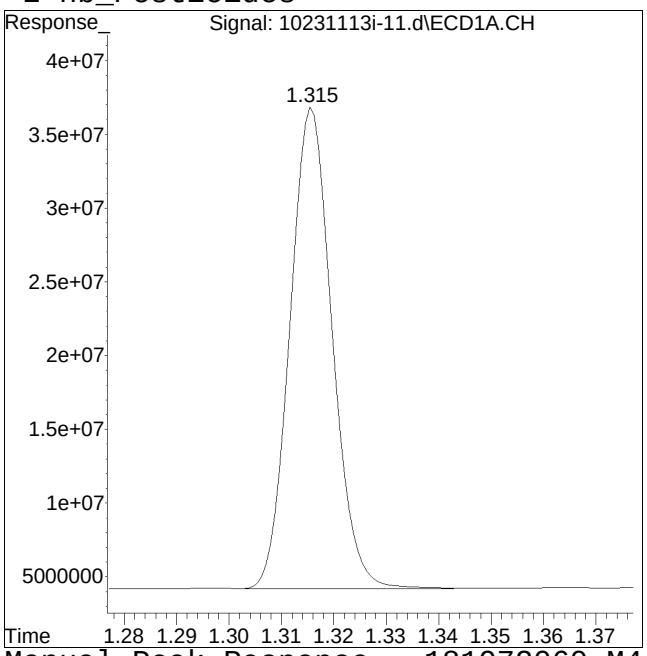
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-11.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:13 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 11/14/2023 8:30 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 182961104

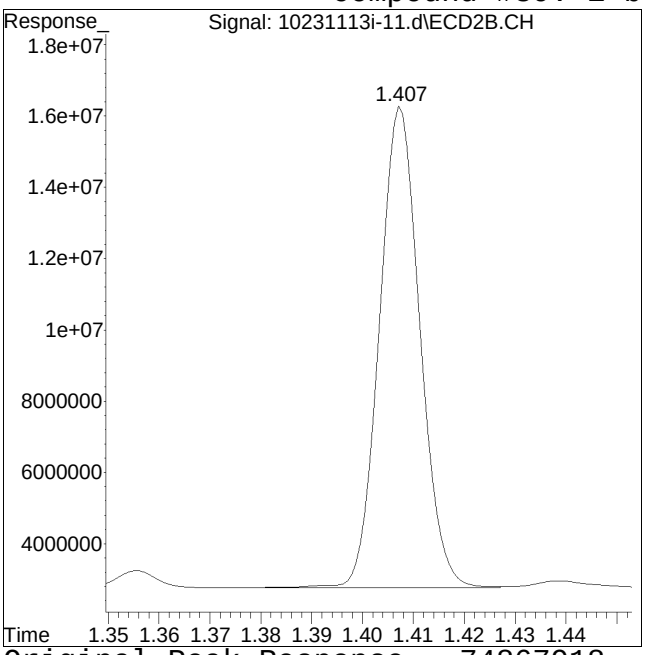


Manual Peak Response = 181972060 M4
M4 = Poor automated baseline construction.

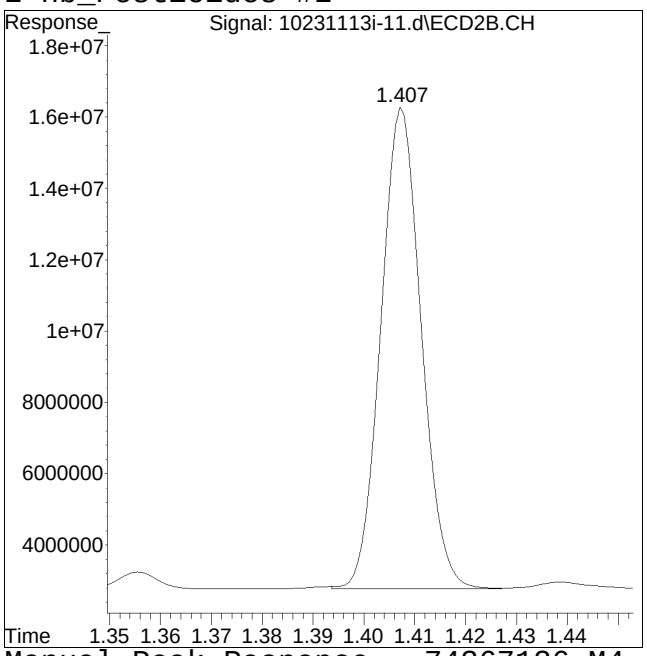
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-11.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:13 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 11/14/2023 8:30 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 74867918



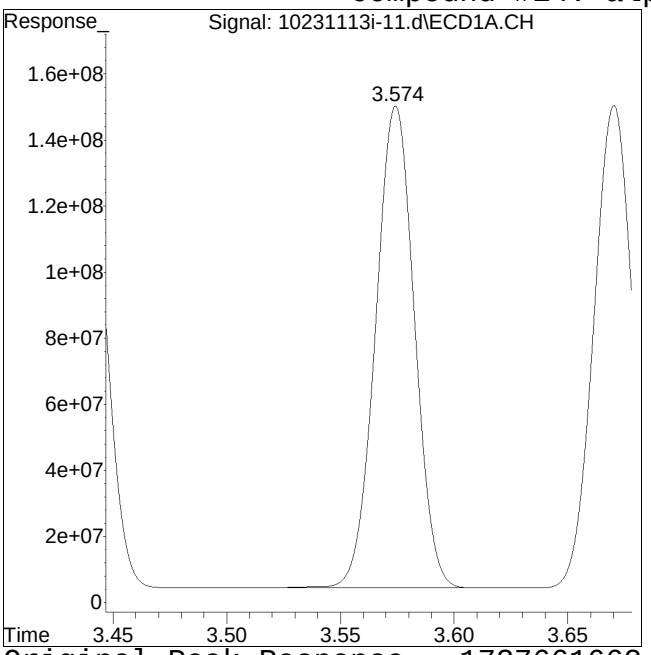
Manual Peak Response = 74367136 M4

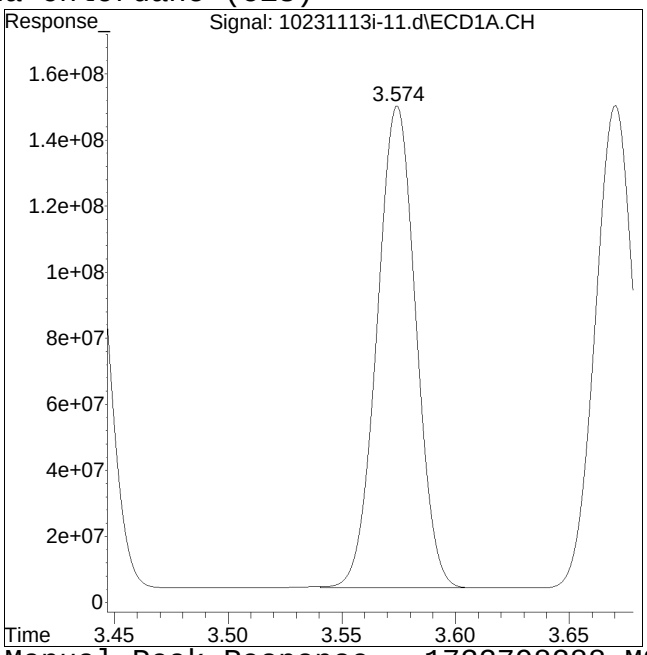
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-11.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:13 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 11/14/2023 8:30 am

Compound #14: alpha-Chlordane (cis)



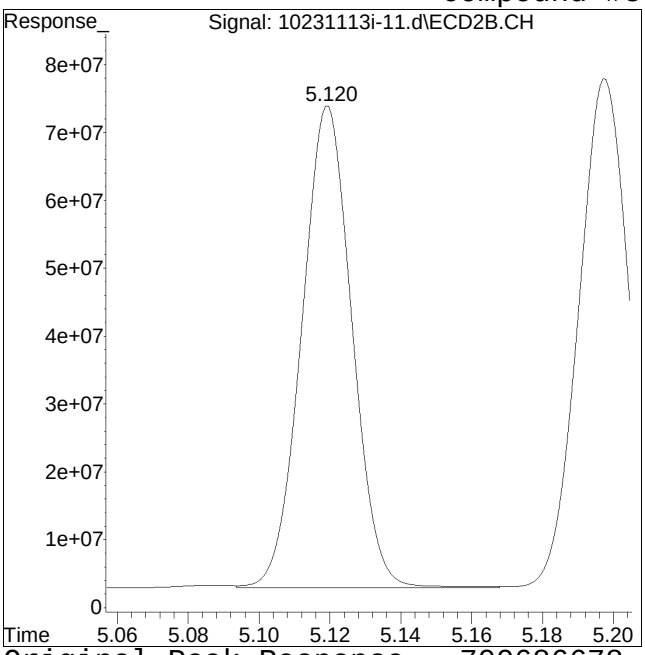


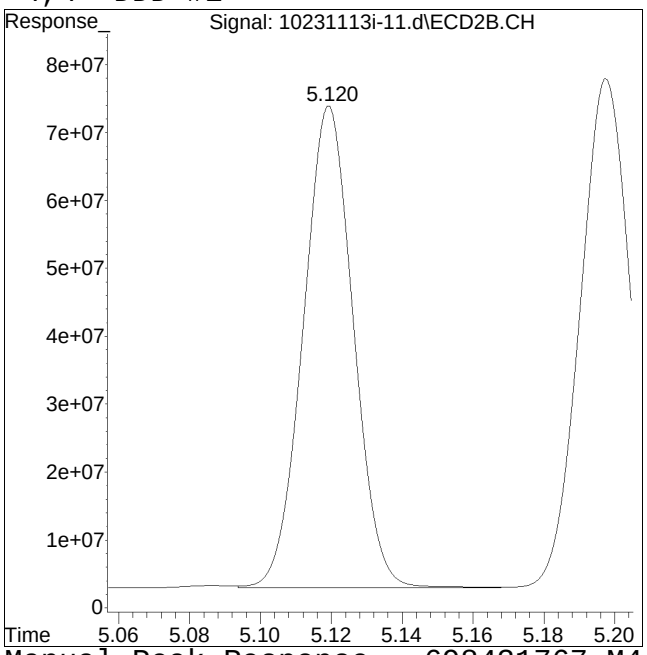
Original Peak Response = 1737661662 Manual Peak Response = 1733798288 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-11.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:13 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 11/14/2023 8:30 am

Compound #57: 4,4'-DDD #2



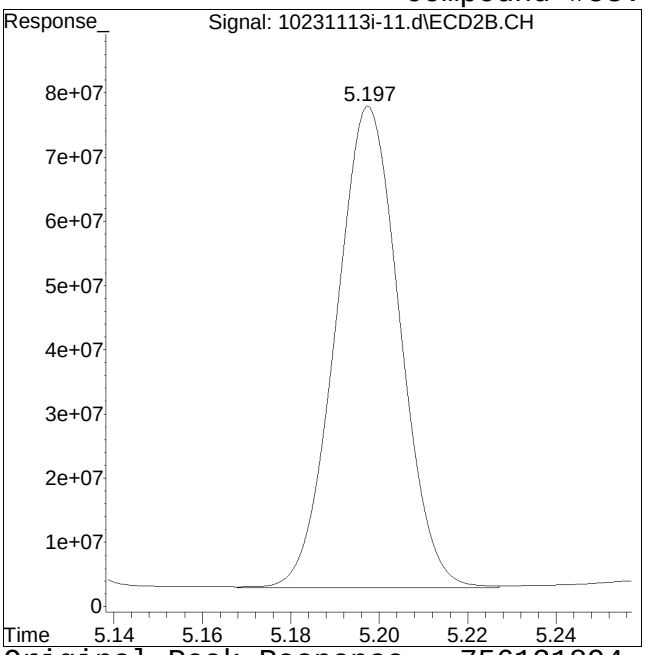


Original Peak Response = 700686678 Manual Peak Response = 698431767 M4
M4 = Poor automated baseline construction.

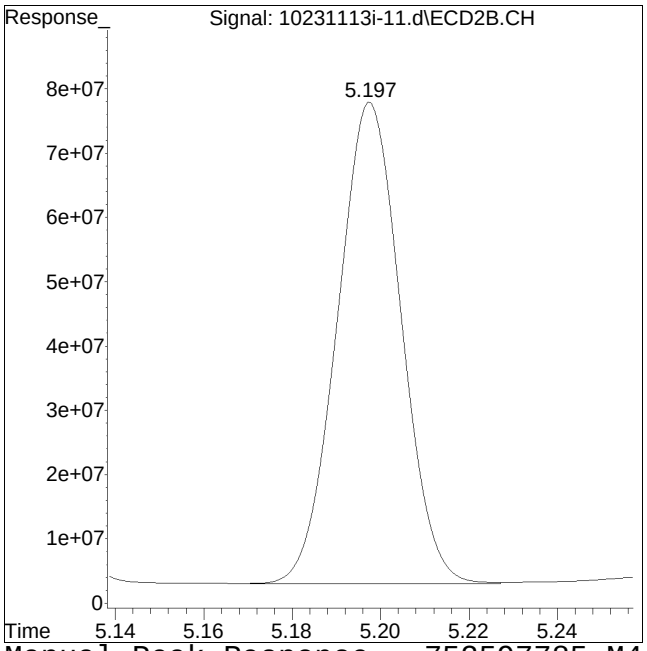
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-11.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:13 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 11/14/2023 8:30 am

Compound #58: Endosulfan II #2



Original Peak Response = 756121894



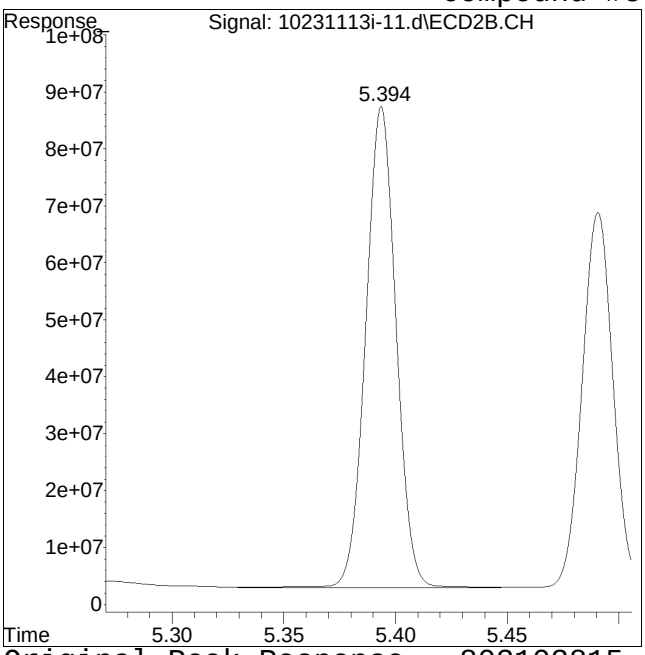
Manual Peak Response = 752597785 M4

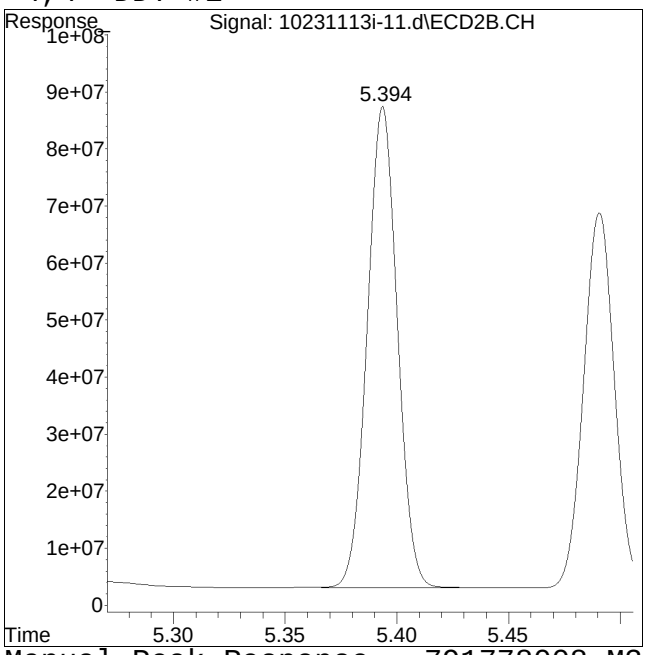
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-11.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:13 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 11/14/2023 8:30 am

Compound #59: 4,4'-DDT #2



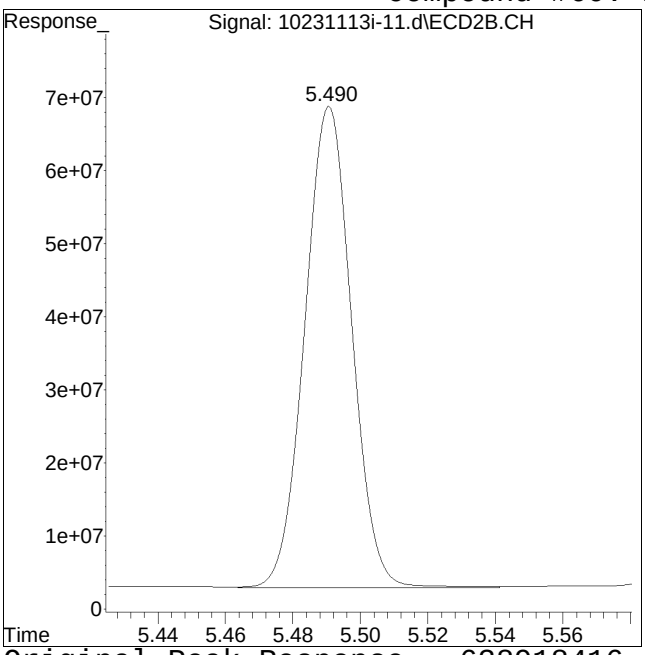


Original Peak Response = 803103815 Manual Peak Response = 791778008 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

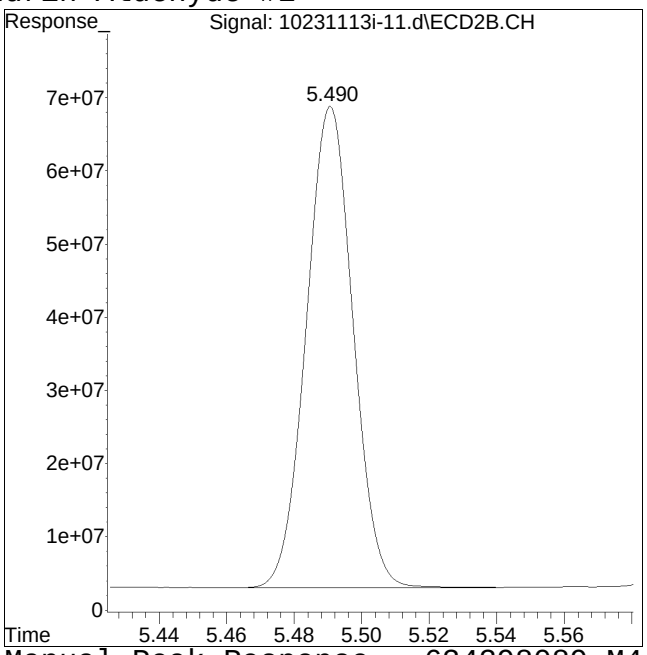
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-11.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:13 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 11/14/2023 8:30 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 638918416



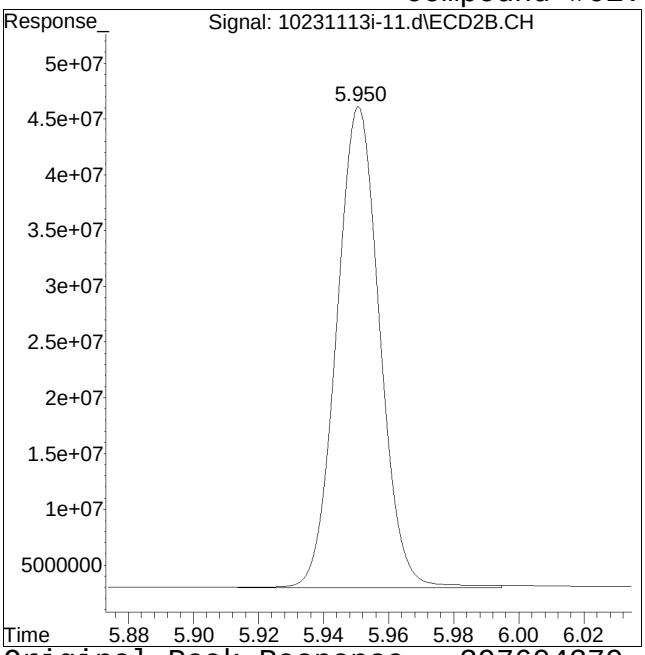
Manual Peak Response = 634398089 M4

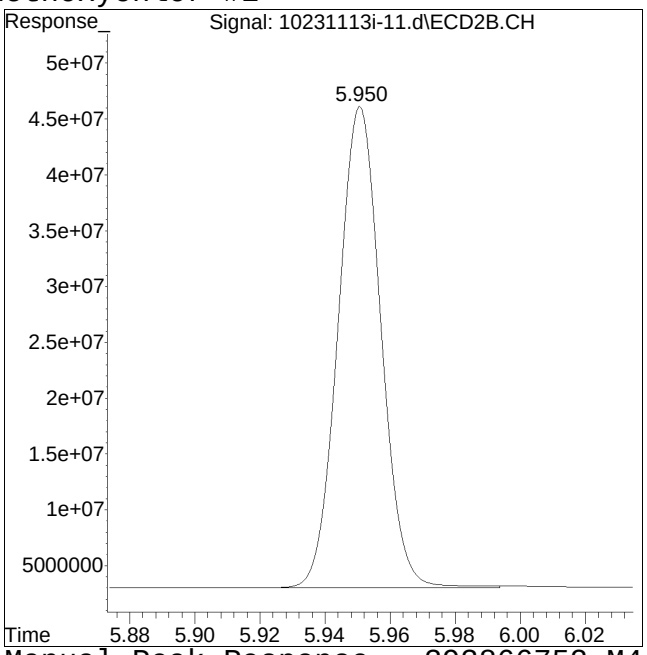
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-11.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:13 pm Instrument : Pest 10
Sample : il10pest,42e,,pp 11398 L0.Quant Date : 11/14/2023 8:30 am

Compound #61: Methoxychlor #2





Original Peak Response = 397604379 Manual Peak Response = 393866752 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:24 pm
Operator : PEST10:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:42:06 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:38:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.315	1.408	179.2E6	75814848	25.000M4	25.000M3
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.660	1.898	2607.6E6	1210.3E6	380.951	398.847
	Spiked Amount 50.000	Range 30 - 150		Recovery =		761.90%#	797.69%#
27) s	Decachlorobi	6.305	6.978	2414.8E6	1209.4E6	376.699M4	378.938
	Spiked Amount 50.000	Range 30 - 150		Recovery =		753.40%#	757.88%#
	Target Compounds						
3) t	Hexachlorobe	1.874	2.227	2919.7E6	1356.3E6	395.479	399.549
4) t	alpha-BHC	1.974	2.325	4346.7E6	2058.1E6	411.502	423.111M3
5) t	gamma-BHC (l	2.178	2.618	3954.8E6	1871.2E6	408.771	419.660
6) t	beta-BHC	2.233	2.683	1630.5E6	770.4E6	404.336	402.300
7) t	delta-BHC	2.363	2.956	4241.4E6	1994.8E6	423.033	431.025
8) t	Heptachlor	2.524	3.024	3498.5E6	1766.6E6	384.676	391.095
9) t	Aldrin	2.767	3.350	3389.9E6	1708.2E6	394.213	399.970
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	3.315	3.975	3117.1E6	1607.6E6	384.435	388.810
13) t	gamma-Chlord	3.437	4.198	3009.8E6	1524.0E6	404.896	405.155
14) t	alpha-Chlord	3.572	4.364	3337.1E6	1677.5E6	397.658	400.575
15) t	4,4'-DDE	3.668	4.555	3344.0E6	1685.7E6	397.582	401.141
16) t	Endosulfan I	3.711	4.423	3008.7E6	1529.6E6	385.038M4	389.051
17) t	Dieldrin	3.972	4.710	3276.6E6	1638.1E6	396.772	398.611
18) t	Endrin	4.228	5.003	3334.7E6	1678.7E6	389.194	394.407
19) t	4,4'-DDD	4.336	5.120	2788.7E6	1387.8E6	404.041	404.916M4
20) t	Endosulfan I	4.468	5.198	2953.4E6	1476.1E6	389.340	390.039
21) t	4,4'-DDT	4.628	5.394	3131.4E6	1561.7E6	399.664	401.571M4
22) t	Endrin Aldeh	4.888	5.491	2440.6E6	1229.1E6	382.920M4	386.786M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:24 pm
Operator : PEST10:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:42:06 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:38:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	5.114	5.951	1488.7E6	754.3E6	363.180	373.407M4
24) t	Mirex	5.170	6.093	2405.4E6	1167.2E6	383.172M4	374.805
25) t	Endosulfan S	5.282	5.717	2823.8E6	1423.1E6	386.582	388.862M4
26) t	Endrin Keton	5.508	6.127	3146.6E6	1567.5E6	374.103	386.334M4
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

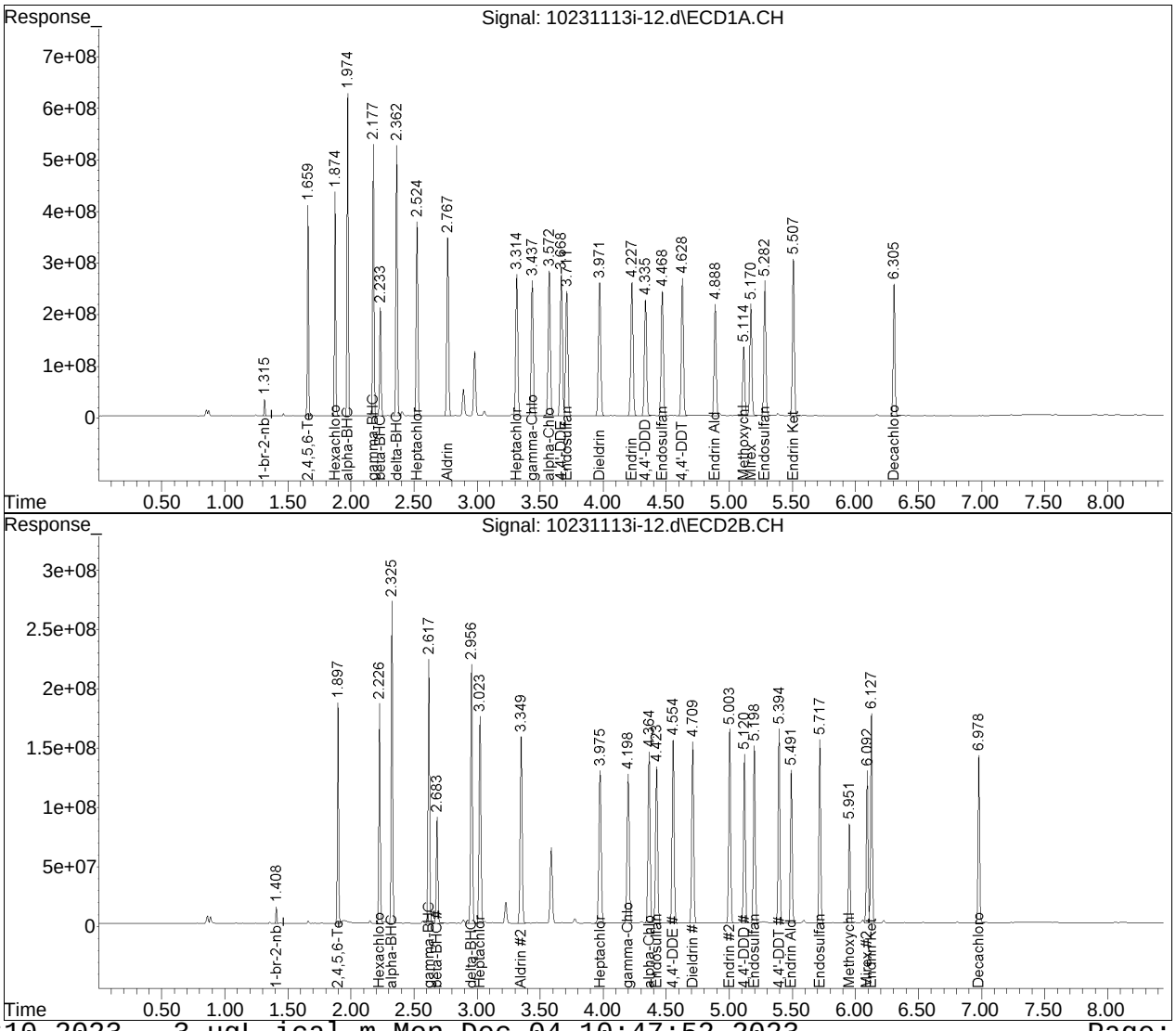
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:24 pm
Operator : PEST10:ejl
Sample : il11pest,42e,,pp 11397 L0.4
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 08:42:06 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 08:38:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

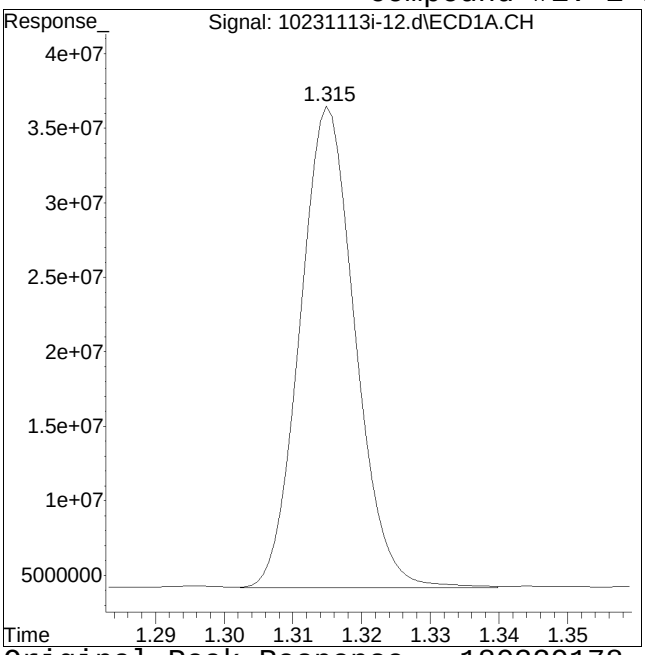
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



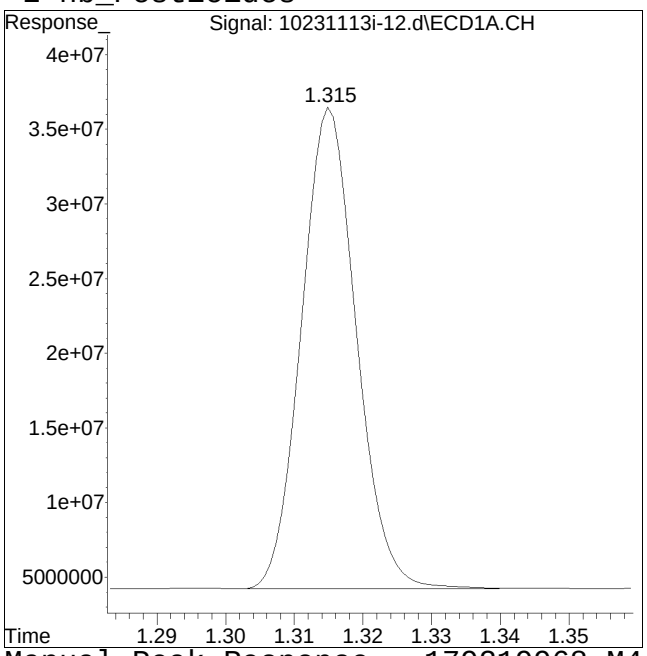
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-12.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:24 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 11/14/2023 8:38 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 180329178



Manual Peak Response = 179219968 M4

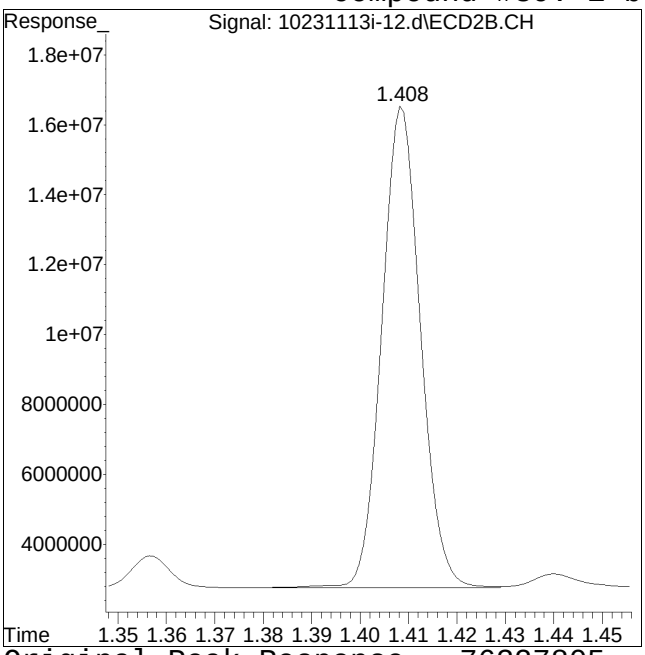
M4 = Poor automated baseline construction.

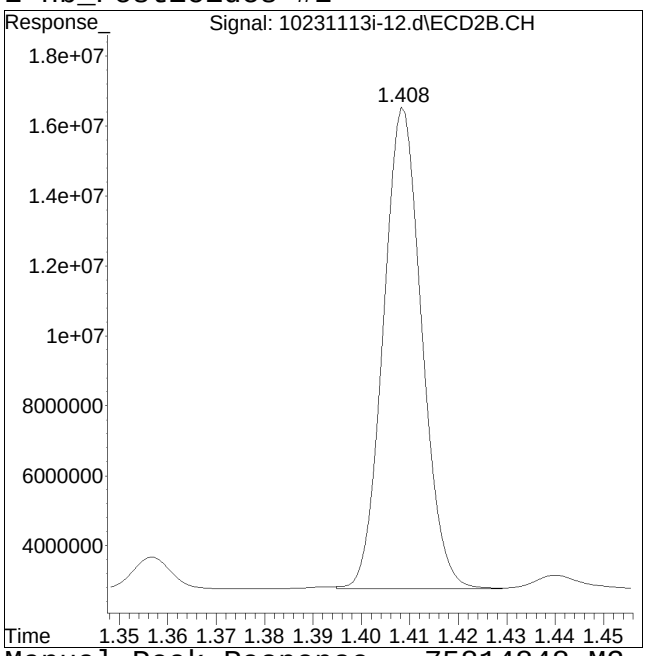
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-12.d
Date Inj'd : 11/13/2023 6:24 pm
Sample : il11pest,42e,,pp 11397 L0.

Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 8:38 am

Compound #39: 1-br-2-nb_Pesticides #2





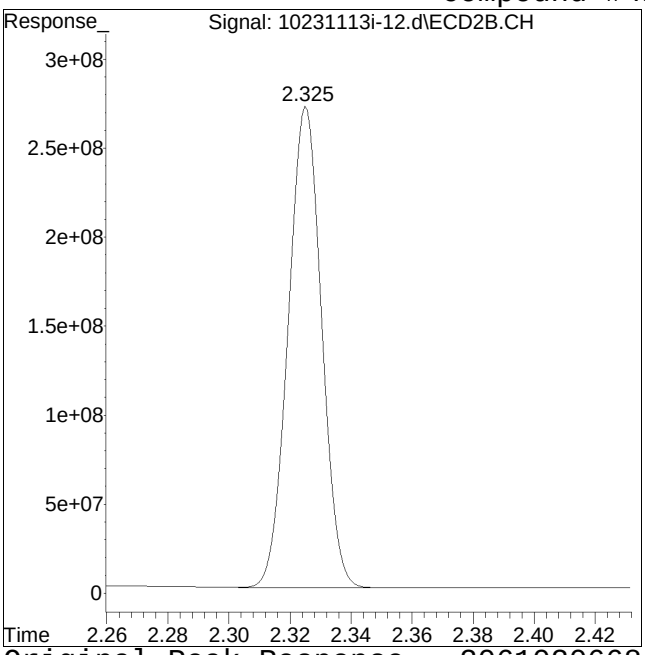
Original Peak Response = 76327805 Manual Peak Response = 75814848 M3

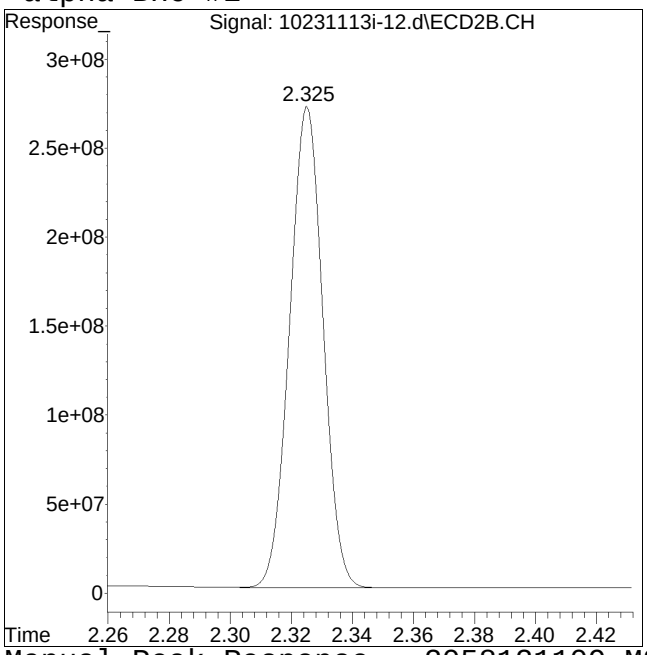
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-12.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:24 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 11/14/2023 8:38 am

Compound #42: alpha-BHC #2



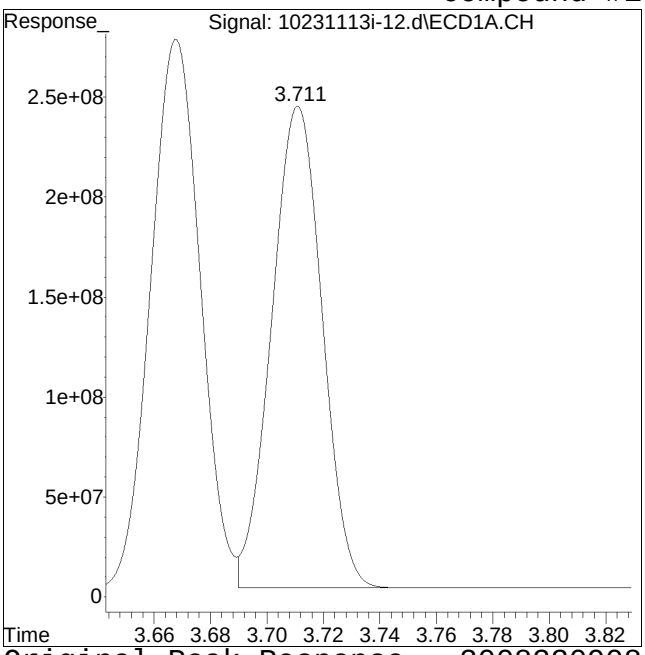


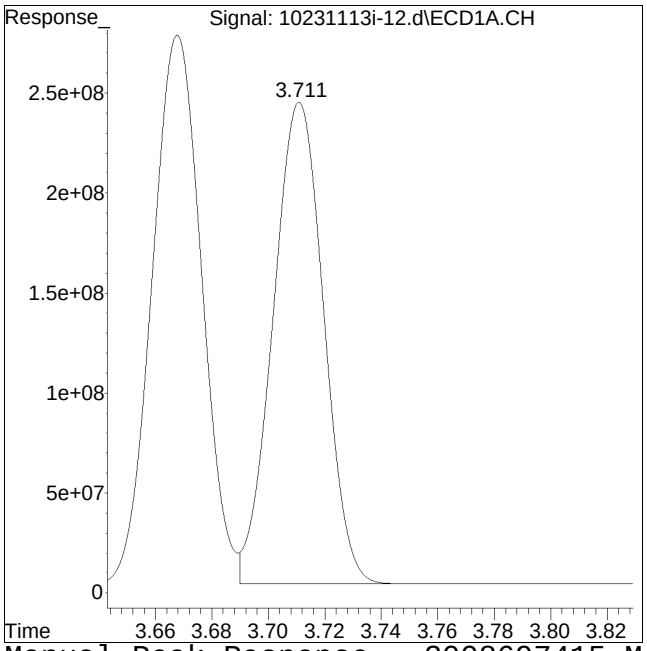
Original Peak Response = 2061020668 Manual Peak Response = 2058121109 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-12.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:24 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 11/14/2023 8:38 am

Compound #16: Endosulfan I



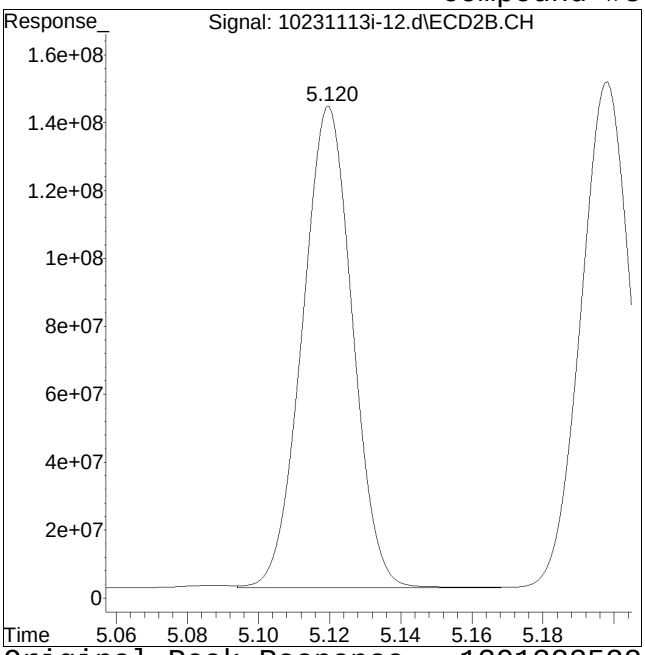


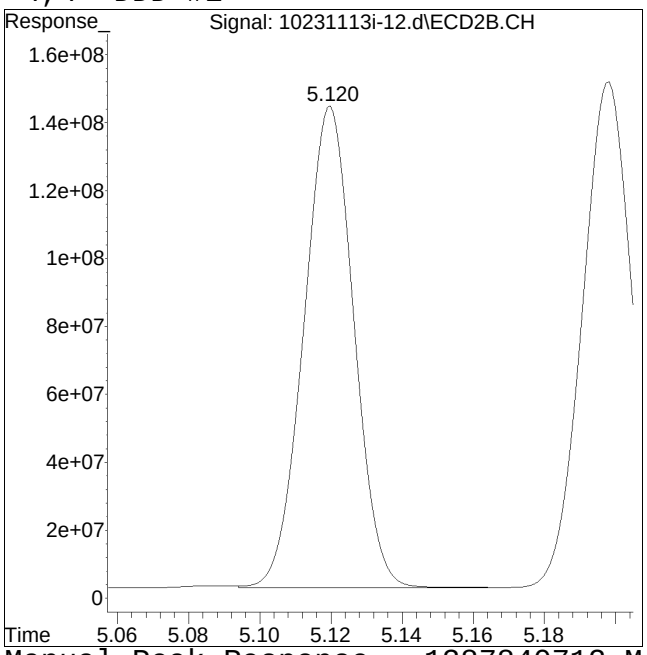
Original Peak Response = 3008330908 Manual Peak Response = 3008697415 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-12.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:24 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 11/14/2023 8:38 am

Compound #57: 4,4'-DDD #2



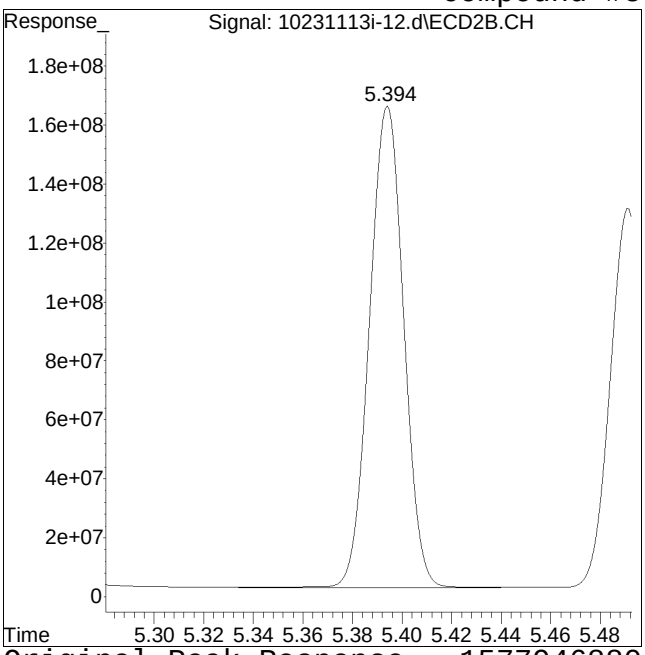


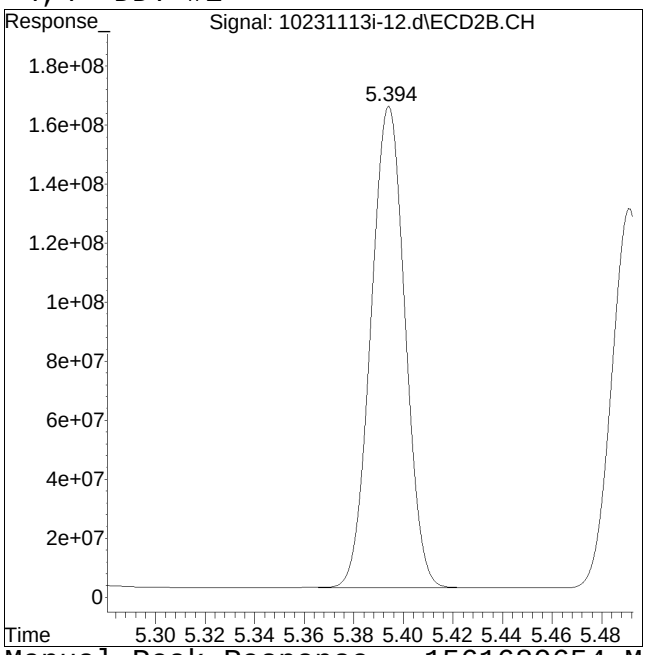
Original Peak Response = 1391323522 Manual Peak Response = 1387840712 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-12.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:24 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 11/14/2023 8:38 am

Compound #59: 4,4'-DDT #2



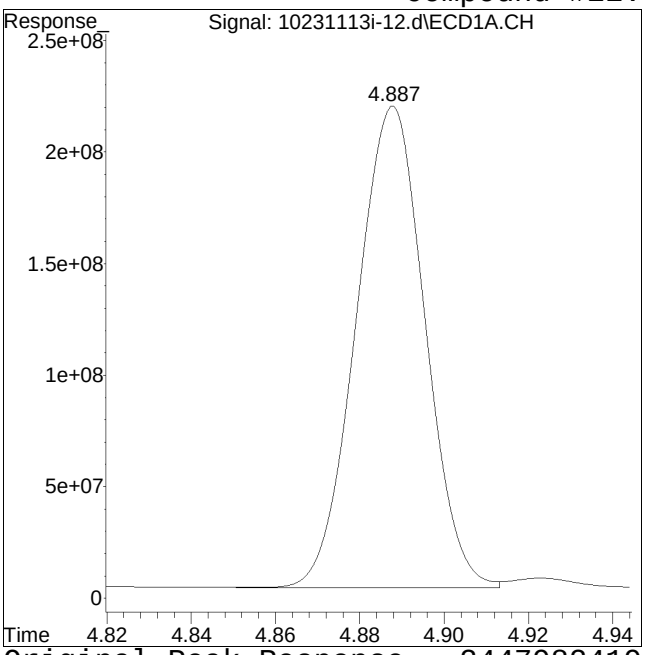


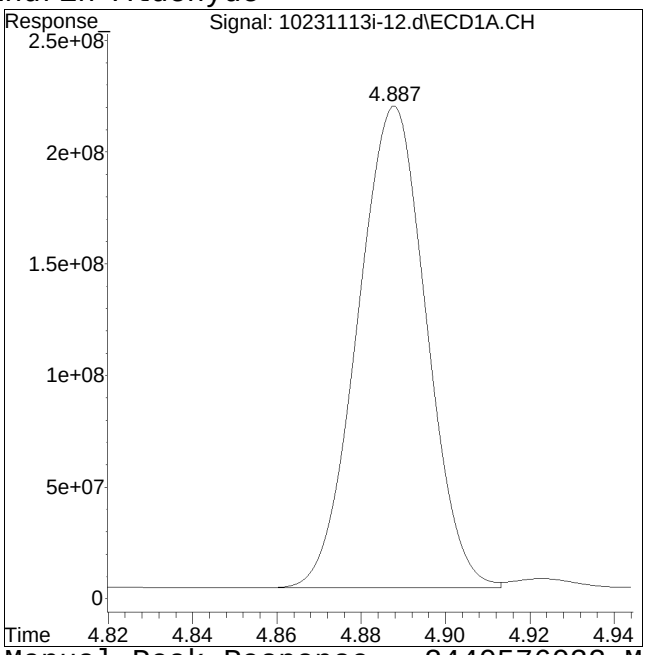
Original Peak Response = 1577946880 Manual Peak Response = 1561680654 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-12.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:24 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 11/14/2023 8:38 am

Compound #22: Endrin Aldehyde



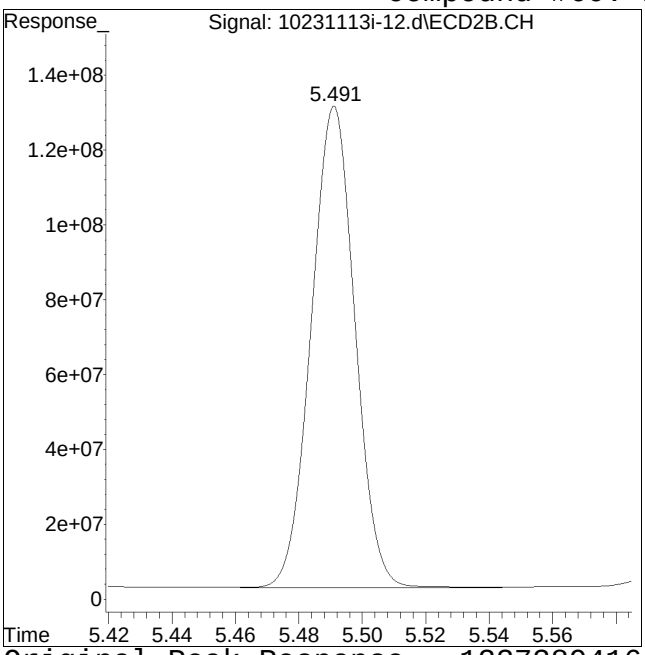


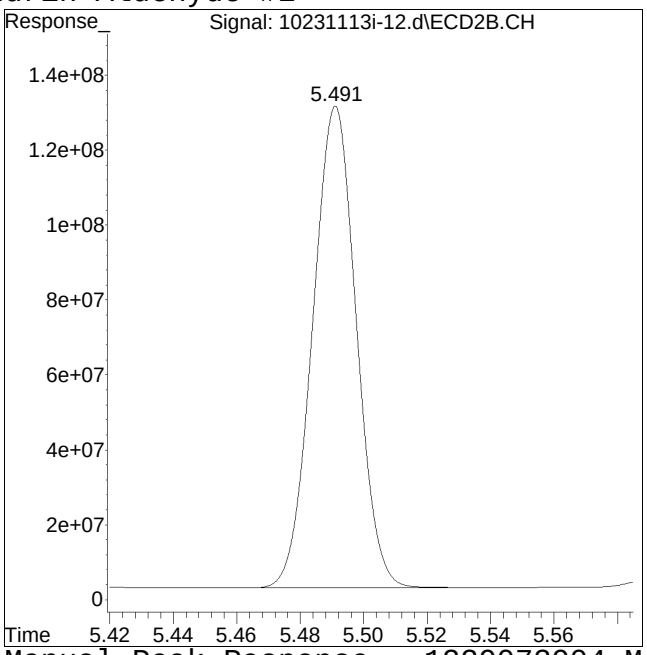
Original Peak Response = 2447982419 Manual Peak Response = 2440576032 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-12.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:24 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 11/14/2023 8:38 am

Compound #60: Endrin Aldehyde #2



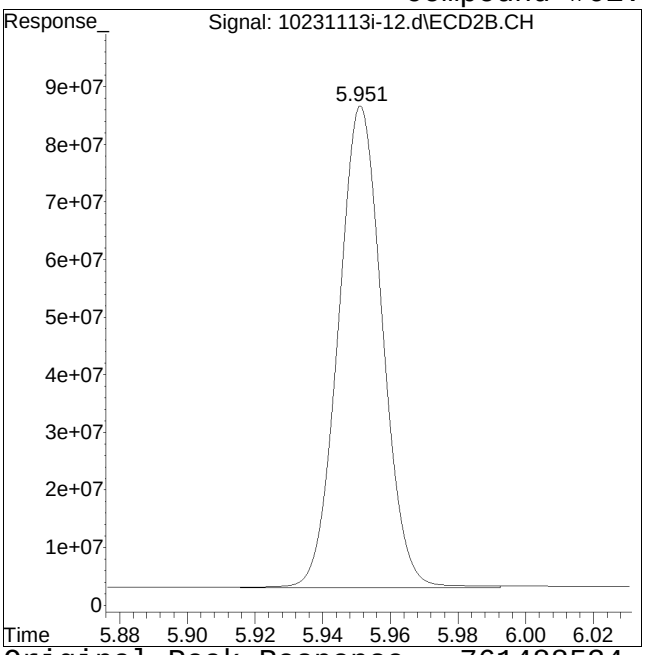


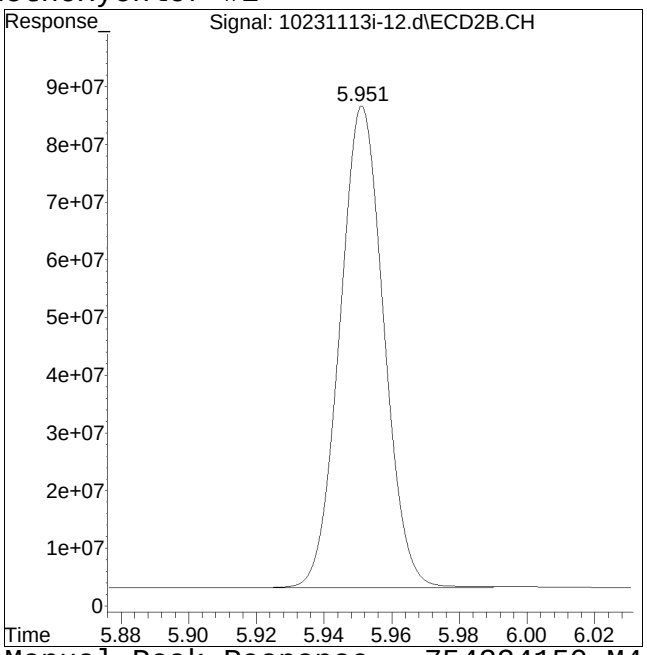
Original Peak Response = 1237389416 Manual Peak Response = 1229073904 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-12.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:24 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 11/14/2023 8:38 am

Compound #61: Methoxychlor #2



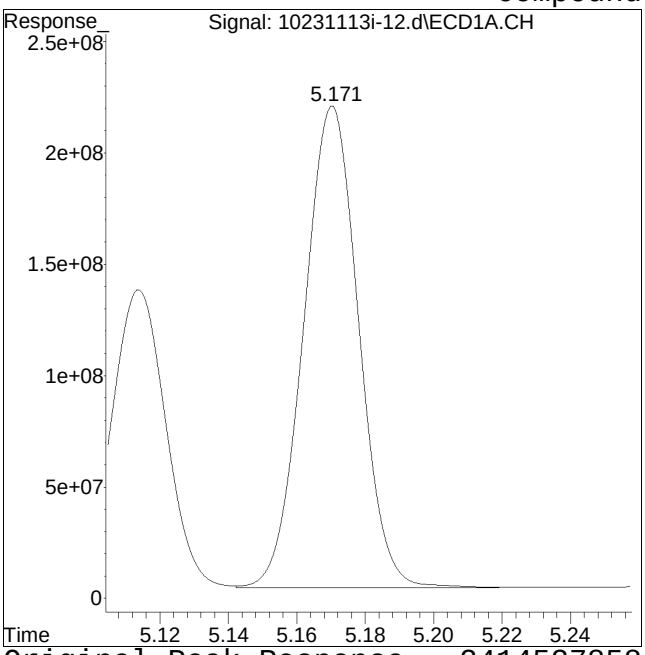


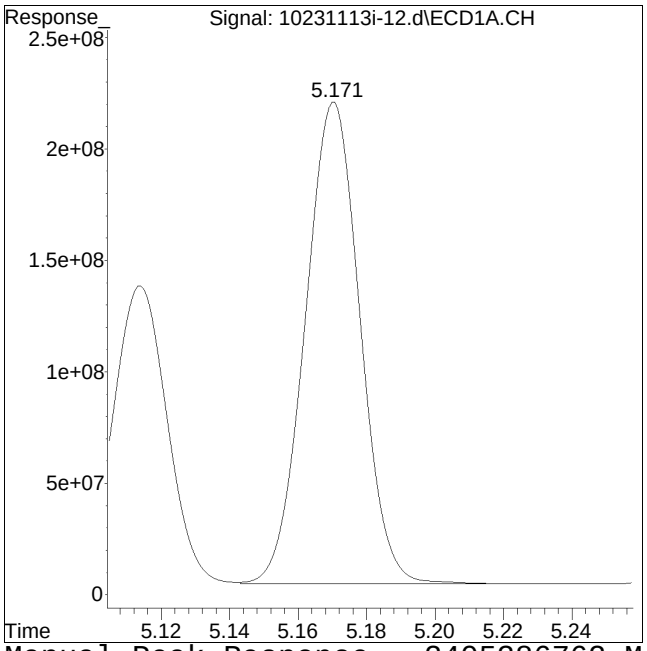
Original Peak Response = 761488534 Manual Peak Response = 754324150 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-12.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:24 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 11/14/2023 8:38 am

Compound #24: Mirex



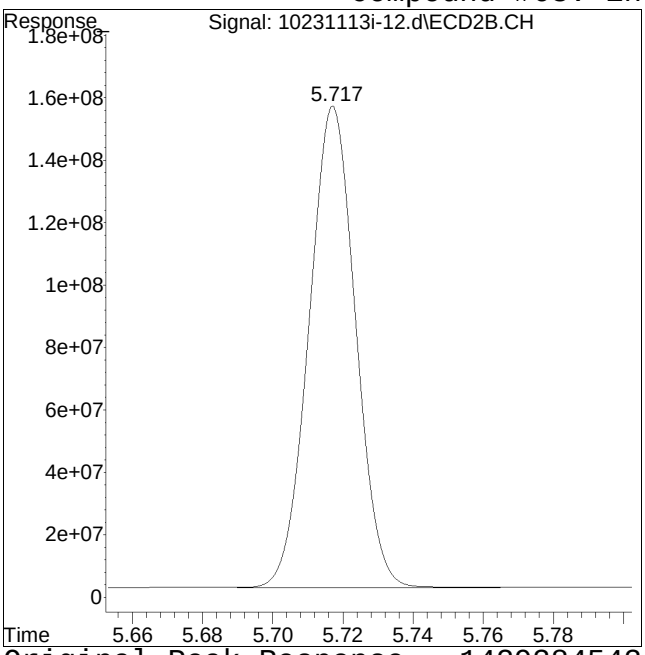


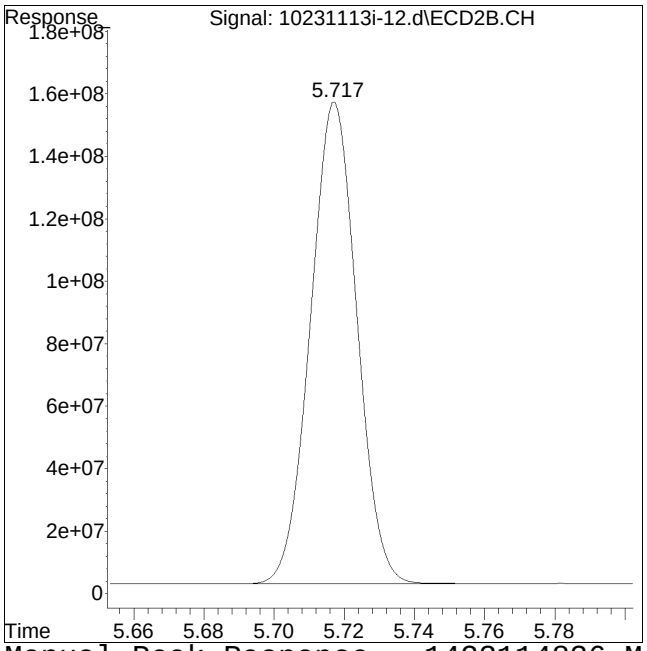
Original Peak Response = 2414527858 Manual Peak Response = 2405386762 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-12.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:24 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 11/14/2023 8:38 am

Compound #63: Endosulfan Sulfate #2



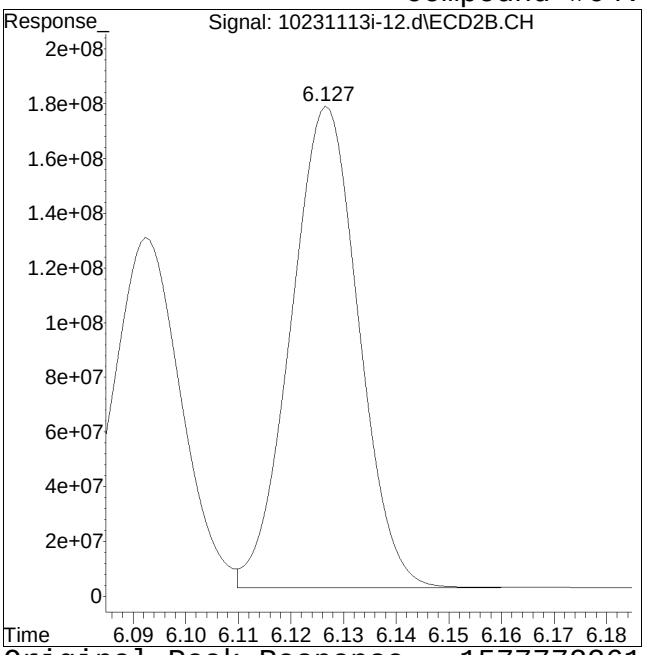


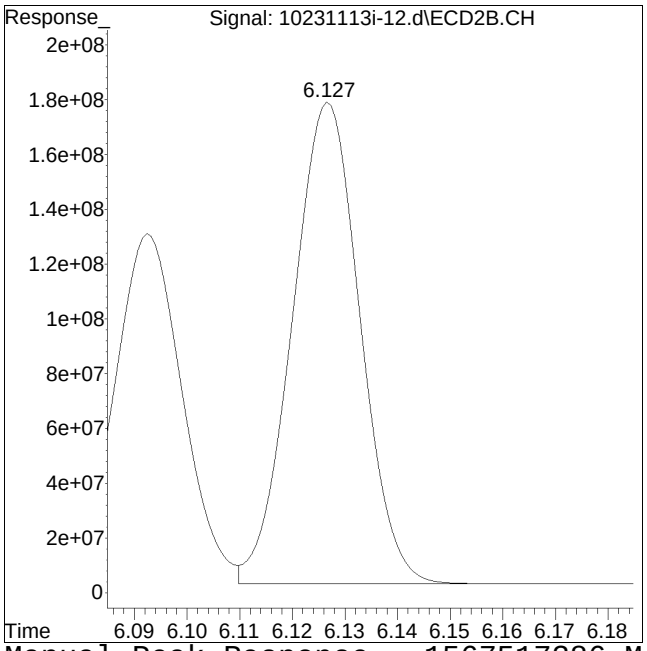
Original Peak Response = 1429384543 Manual Peak Response = 1423114836 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-12.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:24 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 11/14/2023 8:38 am

Compound #64: Endrin Ketone #2



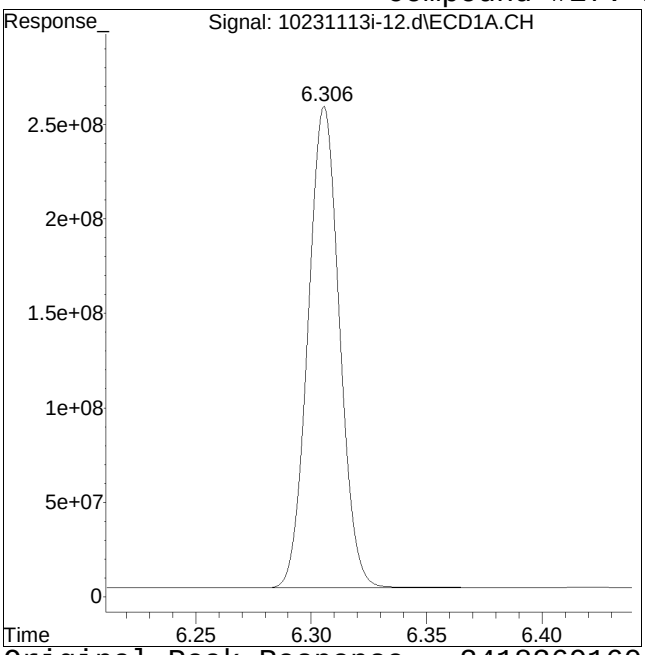


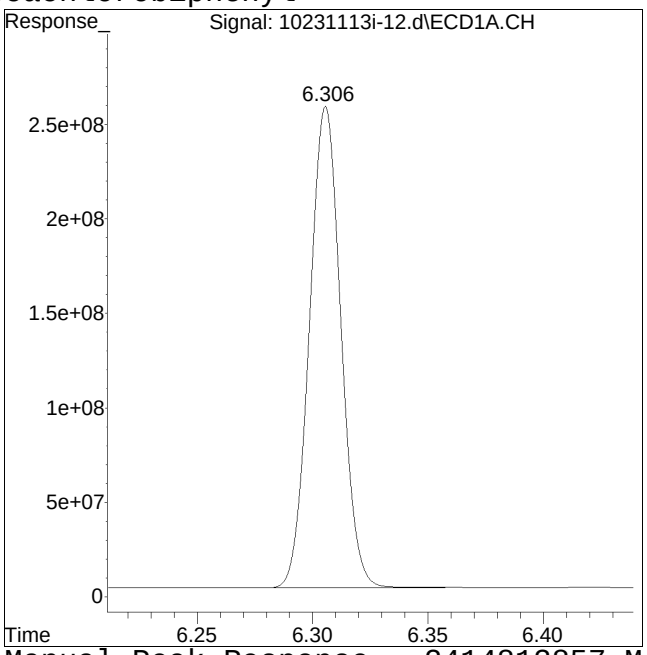
Original Peak Response = 1577772261 Manual Peak Response = 1567517386 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-12.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:24 pm Instrument : Pest 10
Sample : il11pest,42e,,pp 11397 L0.Quant Date : 11/14/2023 8:38 am

Compound #27: Decachlorobiphenyl





Original Peak Response = 2418369160 Manual Peak Response = 2414813857 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Nov 2023   6:35 pm
Operator : PEST10:ejl
Sample   : cicvpest,42e,,pp 11375 L0.05ICV
Misc   : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:10:52 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:10:41 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.045	1.078	-3.2	113	0.00
3	t	Hexachlorobenzene		1.118	1.137	-1.7	110	0.00
4	t	alpha-BHC		1.422	1.583	-11.3	111	0.00
5	t	gamma-BHC (lindane)		1.339	1.430	-6.8	109	0.00
6	t	beta-BHC		0.619	0.615	0.6	110	0.00
7	t	delta-BHC		1.369	1.395	-1.9	104	0.00
8	t	Heptachlor		1.308	1.393	-6.5	111	0.00
9	t	Aldrin		1.199	1.318	-9.9	112	0.00
10	t	Alachlor		0.283	0.289	-2.1	109	0.00
11	t	Chlorpyrifos		0.635	0.635	0.0	113	0.00
12	t	Heptachlor Epoxide		1.183	1.235	-4.4	110	0.00
13	t	gamma-Chlordane (trans)		1.079	1.270	-17.7#	126	0.00
14	t	alpha-Chlordane (cis)		1.256	1.260	-0.3	110	0.00
15	t	4,4'-DDE		1.160	1.254	-8.1	111	0.00
16	t	Endosulfan I		1.139	1.183	-3.9	110	0.00
17	t	Dieldrin		1.162	1.340	-15.3#	120	0.00
18	t	Endrin		1.210	1.288	-6.4	110	0.00
19	t	4,4'-DDD		0.955	1.094	-14.6	118	0.00
20	t	Endosulfan II		1.102	1.182	-7.3	114	0.00
21	t	4,4'-DDT		1.095	1.181	-7.9	113	0.00
22	t	Endrin Aldehyde		0.904	0.862	4.6	99	0.00
23	t	Methoxychlor		0.629	0.657	-4.5	114	0.00
24	t	Mirex		0.996	0.994	0.2	114	0.00
25	t	Endosulfan Sulfate		1.079	1.139	-5.6	113	0.00
26	t	Endrin Ketone		1.230	1.369	-11.3	117	0.00
27	s	Decachlorobiphenyl		0.984	0.967	1.7	108	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Nov 2023   6:35 pm
Operator : PEST10:ejl
Sample   : cicvpest,42e,,pp 11375 L0.05ICV
Misc   : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:10:52 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:10:41 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	102	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.041	1.097	-5.4	114	0.00
3	t	Hexachlorobenzene		1.214	1.209	0.4	111	0.00
4	t	alpha-BHC		1.522	1.659	-9.0	111	0.00
5	t	gamma-BHC (lindane)		1.451	1.505	-3.7	109	0.00
6	t	beta-BHC		0.686	0.668	2.6	109	0.00
7	t	delta-BHC		1.463	1.463	0.0	104	0.00
8	t	Heptachlor		1.525	1.572	-3.1	111	0.00
9	t	Aldrin		1.405	1.482	-5.5	112	0.00
10	t	Alachlor		0.209	0.218	-4.3	111	0.00
11	t	Chlorpyrifos	*	50.000	56.526	-13.1	111	0.00
12	t	Heptachlor Epoxide		1.450	1.416	2.3	108	0.00
13	t	gamma-Chlordane (trans)		1.283	1.461	-13.9	125	0.00
14	t	alpha-Chlordane (cis)		1.451	1.436	1.0	110	0.00
15	t	4,4'-DDE		1.351	1.414	-4.7	110	0.00
16	t	Endosulfan I		1.364	1.349	1.1	109	0.00
17	t	Dieldrin		1.362	1.507	-10.6	118	0.00
18	t	Endrin		1.415	1.442	-1.9	109	0.00
19	t	4,4'-DDD		1.113	1.222	-9.8	116	0.00
20	t	Endosulfan II		1.325	1.332	-0.5	111	0.00
21	t	4,4'-DDT		1.284	1.316	-2.5	110	0.00
22	t	Endrin Aldehyde	*	50.000	47.102	5.8	98	0.00
23	t	Methoxychlor		0.744	0.730	1.9	112	0.00
24	t	Mirex	*	50.000	54.546	-9.1	111	0.00
25	t	Endosulfan Sulfate		1.292	1.300	-0.6	113	0.00
26	t	Endrin Ketone		1.412	1.479	-4.7	115	0.00
27	s	Decachlorobiphenyl	*	50.000	53.111	-6.2	107	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Nov 2023   6:35 pm
Operator : PEST10:ejl
Sample   : cicvpest,42e,,pp 11375 L0.05ICV
Misc   : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:10:52 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:10:41 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1	*	0.041	0.000	100.0#	0#	-2.46#
30	l1	chlordane-3	*	0.071	0.000	100.0#	0#	-2.52#
31	l1	chlordane-4	*	0.048	0.000	100.0#	0#	-2.88#
32	l1	chlordane-5	*	0.164	0.000	100.0#	0#	-3.44#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.31#
34	l2	toxaphene-1	*	0.044	0.000	100.0#	0#	-4.46#
35	l2	toxaphene-2	*	0.044	0.000	100.0#	0#	-4.58#
36	l2	toxaphene-4	*	0.043	0.000	100.0#	0#	-5.00#
37	l2	toxaphene-5	*	0.050	0.000	100.0#	0#	-5.18#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.41#
29	l1	chlordane-1		0.046	0.000	100.0#	0#	-2.88#
30	l1	chlordane-3		0.053	0.000	100.0#	0#	-3.50#
31	l1	chlordane-4		0.180	0.000	100.0#	0#	-4.20#
32	l1	chlordane-5		0.146	0.000	100.0#	0#	-4.36#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.41#
34	l2	toxaphene-1	*	0.026	0.000	100.0#	0#	-5.16#
35	l2	toxaphene-2	*	0.042	0.000	100.0#	0#	-5.18#
36	l2	toxaphene-4	*	0.058	0.000	100.0#	0#	-5.50#
37	l2	toxaphene-5	*	0.045	0.000	100.0#	0#	-5.90#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:35 pm
Operator : PEST10:ejl
Sample : cicvpest,42e,,pp 11375 L0.05ICV
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:10:52 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:10:41 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.315	1.408	179.0E6	77084397	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.660	1.897	386.1E6	169.1E6	51.612	52.660
	Spiked Amount 50.000	Range 30 - 150		Recovery =		103.22%	105.32%
27) s	Decachlorobi	6.306	6.977	346.2E6	170.0E6	49.136	53.111
	Spiked Amount 50.000	Range 30 - 150		Recovery =		98.27%	106.22%
	Target Compounds						
3) t	Hexachlorobe	1.874	2.227	407.0E6	186.4E6	50.828	49.777
4) t	alpha-BHC	1.974	2.325	566.9E6	255.8E6	55.687	54.489
5) t	gamma-BHC (l	2.177	2.617	511.8E6	232.0E6	53.398	51.851
6) t	beta-BHC	2.233	2.683	220.1E6	102.9E6	49.642	48.659
7) t	delta-BHC	2.362	2.956	499.6E6	225.5E6	50.962	49.975
8) t	Heptachlor	2.524	3.023	498.8E6	242.4E6	53.275	51.527
9) t	Aldrin	2.767	3.350	471.7E6	228.4E6	54.941	52.728
10) t	Alachlor	2.892	3.228	103.4E6	33603409	50.969	52.039
11) t	Chlorpyrifos	2.981	3.588	227.2E6	123.5E6	49.958	56.526
12) t	Heptachlor E	3.314	3.975	442.1E6	218.3E6	52.197	48.829
13) t	gamma-Chlord	3.437	4.197	454.9E6	225.3E6	58.895	56.934
14) t	alpha-Chlord	3.572	4.364	450.9E6	221.4E6	50.140	49.487
15) t	4,4'-DDE	3.667	4.554	448.9E6	217.9E6	54.062	52.321
16) t	Endosulfan I	3.711	4.424	423.5E6	207.9E6	51.915	49.426
17) t	Dieldrin	3.971	4.710	479.7E6	232.4E6	57.634	55.317
18) t	Endrin	4.228	5.002	461.0E6	222.4E6	53.210	50.978
19) t	4,4'-DDD	4.335	5.120	391.8E6	188.4E6	57.296	54.926
20) t	Endosulfan I	4.469	5.197	423.3E6	205.4E6	53.658	50.275M4
21) t	4,4'-DDT	4.628	5.394	422.9E6	203.0E6	53.928	51.254M4
22) t	Endrin Aldeh	4.887	5.491	308.6E6	150.3E6	47.675M4	47.102M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:35 pm
Operator : PEST10:ejl
Sample : cicvpest,42e,,pp 11375 L0.05ICV
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:10:52 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:10:41 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	5.114	5.951	235.1E6	112.5E6	52.171	49.039
24) t	Mirex	5.171	6.092	355.9E6	174.0E6	49.887	54.546
25) t	Endosulfan S	5.282	5.717	407.7E6	200.4E6	52.790	50.293
26) t	Endrin Keton	5.508	6.126	490.0E6	228.0E6	55.635	52.357
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

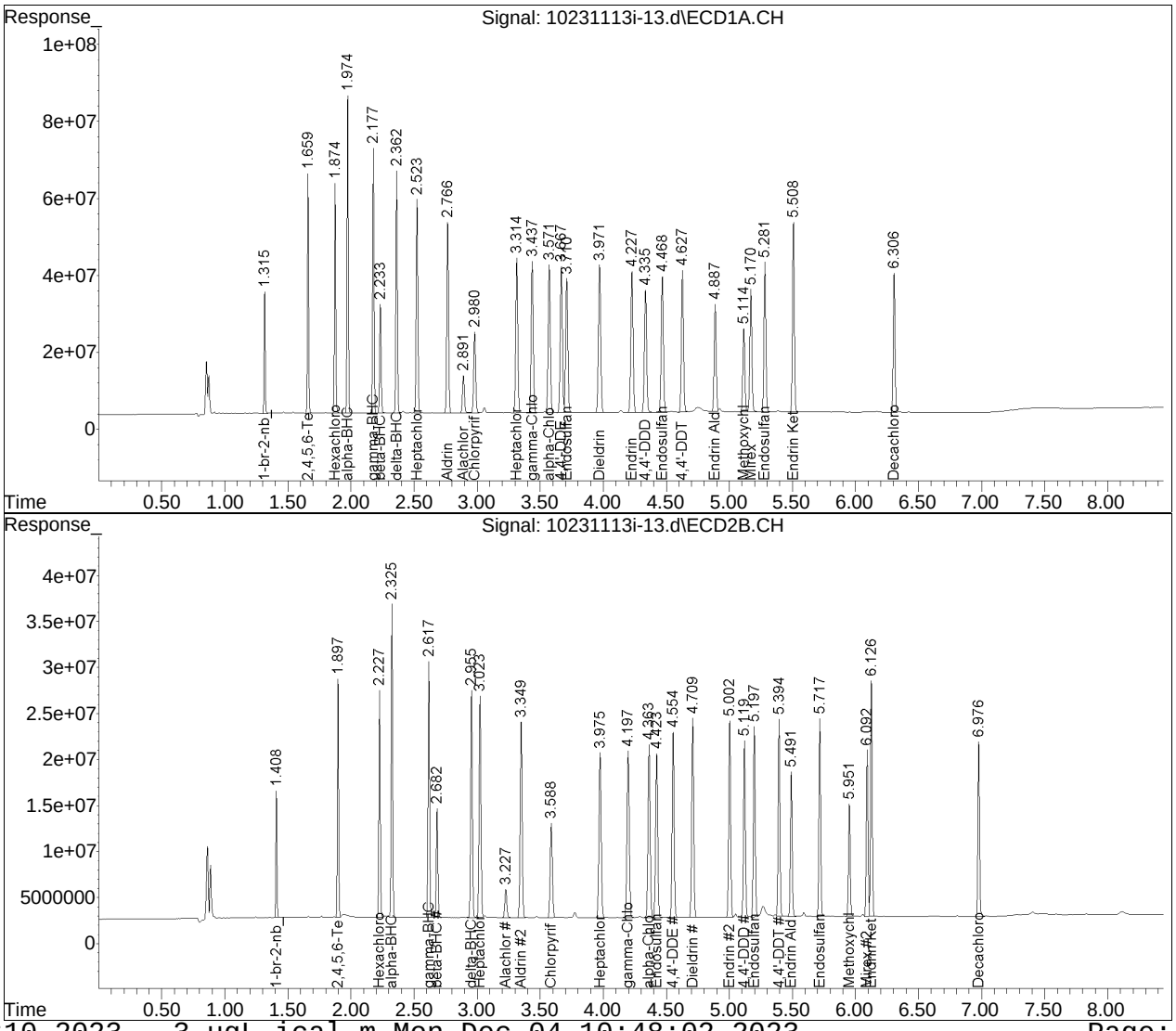
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:35 pm
Operator : PEST10:ejl
Sample : cicvpest,42e,,pp 11375 L0.05ICV
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:10:52 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:10:41 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

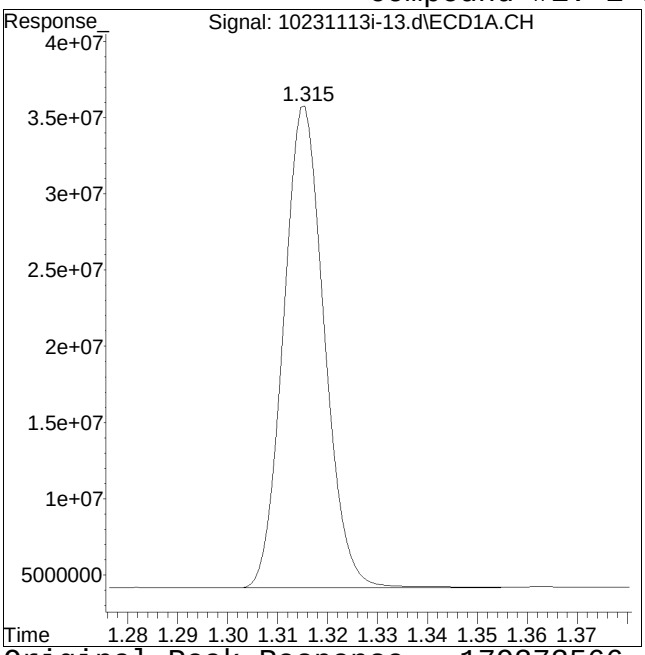
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



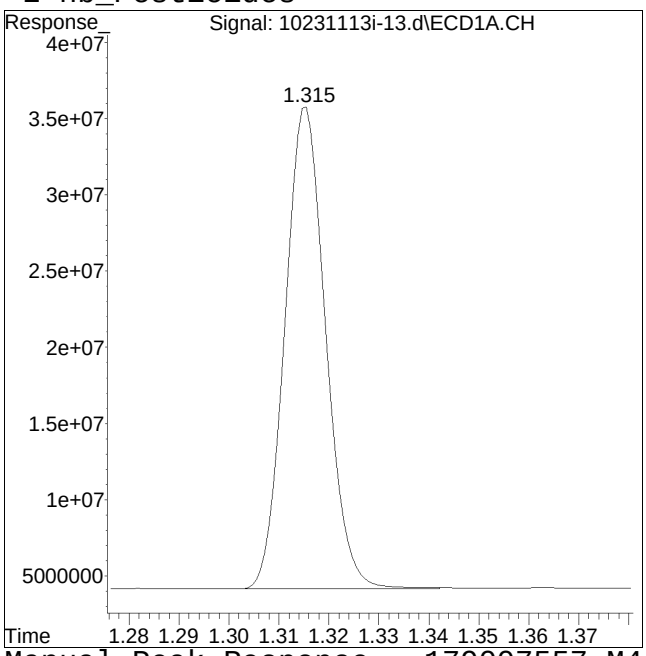
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-13.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:35 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11375 L0.Quant Date : 11/14/2023 9:10 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 179373566



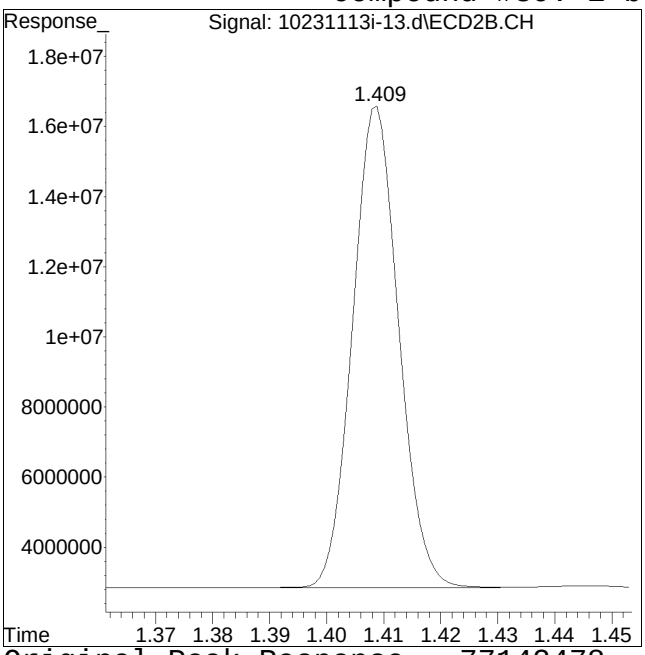
Manual Peak Response = 179007557 M4

M4 = Poor automated baseline construction.

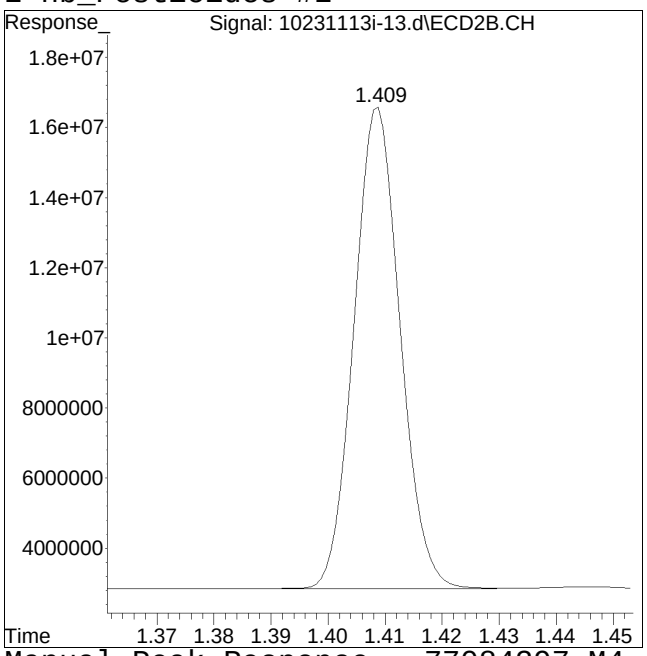
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-13.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:35 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11375 L0.Quant Date : 11/14/2023 9:10 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 77142478



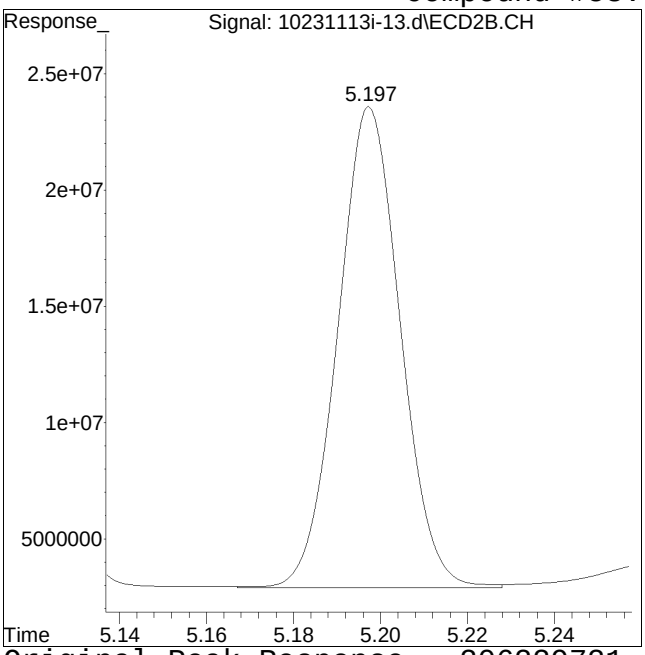
Manual Peak Response = 77084397 M4

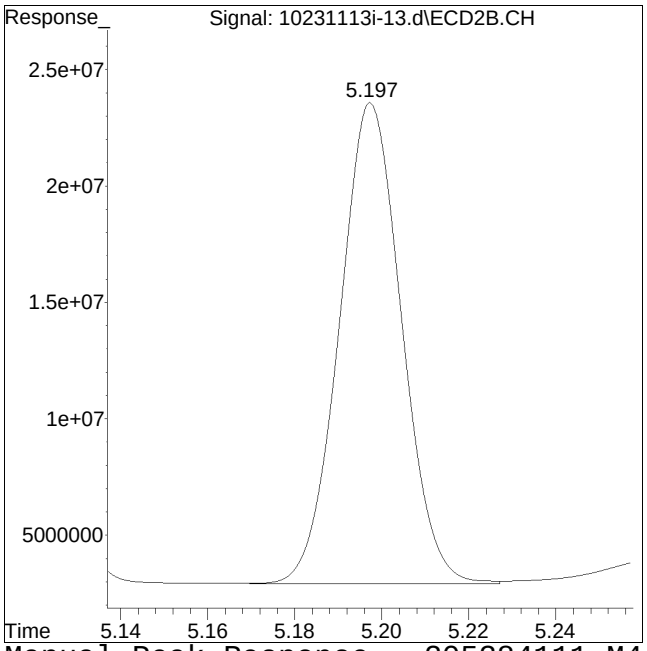
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-13.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:35 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11375 L0.Quant Date : 11/14/2023 9:10 am

Compound #58: Endosulfan II #2



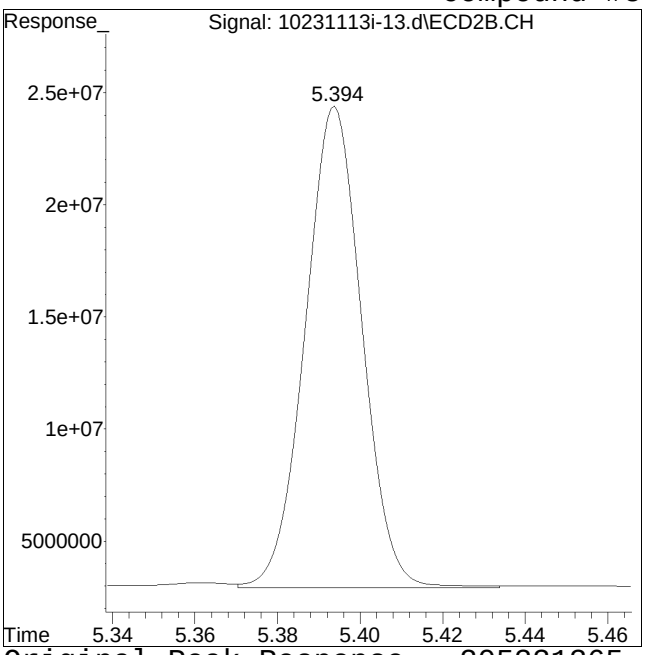


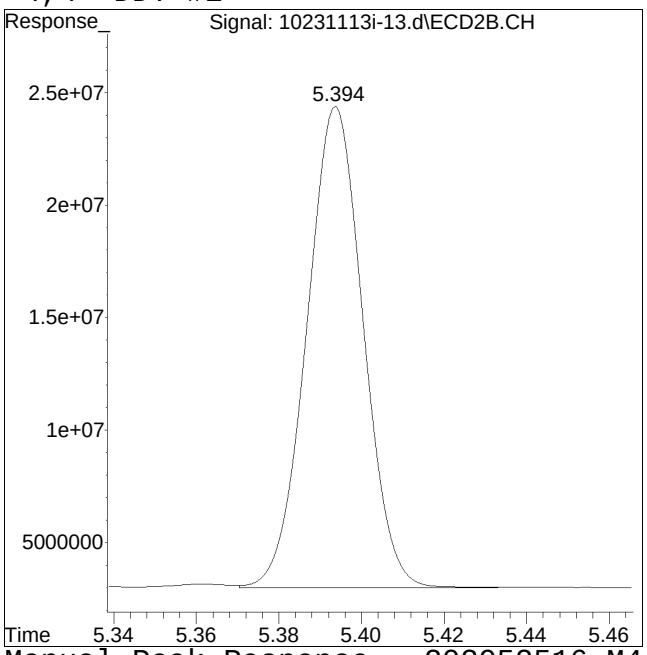
Original Peak Response = 206229721 Manual Peak Response = 205384111 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-13.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:35 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11375 L0.Quant Date : 11/14/2023 9:10 am

Compound #59: 4,4'-DDT #2



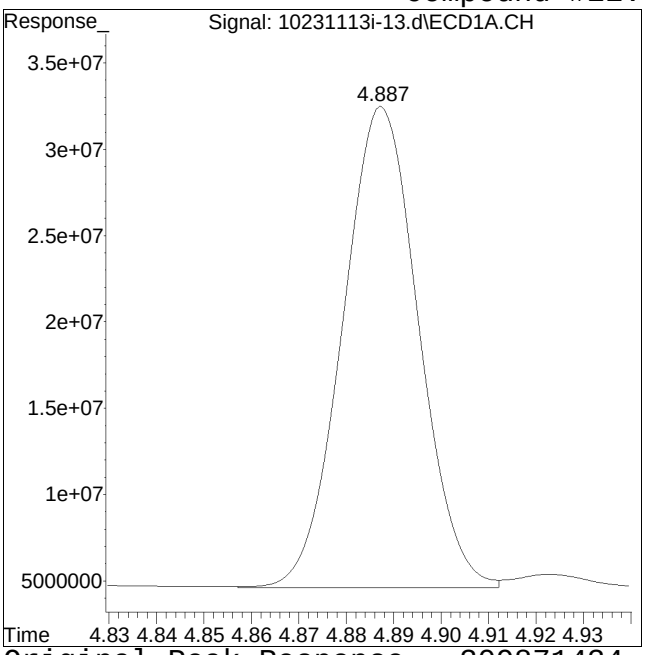


Original Peak Response = 205331365 Manual Peak Response = 202952516 M4
M4 = Poor automated baseline construction.

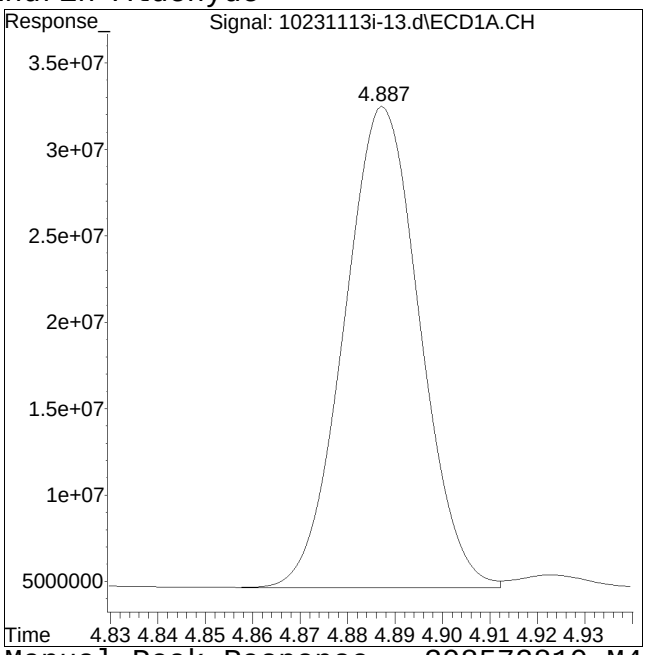
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-13.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:35 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11375 L0.Quant Date : 11/14/2023 9:10 am

Compound #22: Endrin Aldehyde



Original Peak Response = 309871434



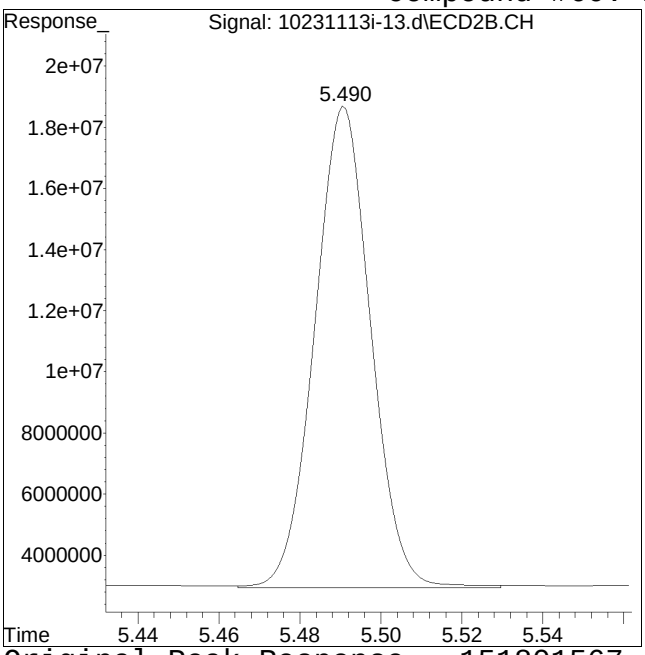
Manual Peak Response = 308572810 M4

M4 = Poor automated baseline construction.

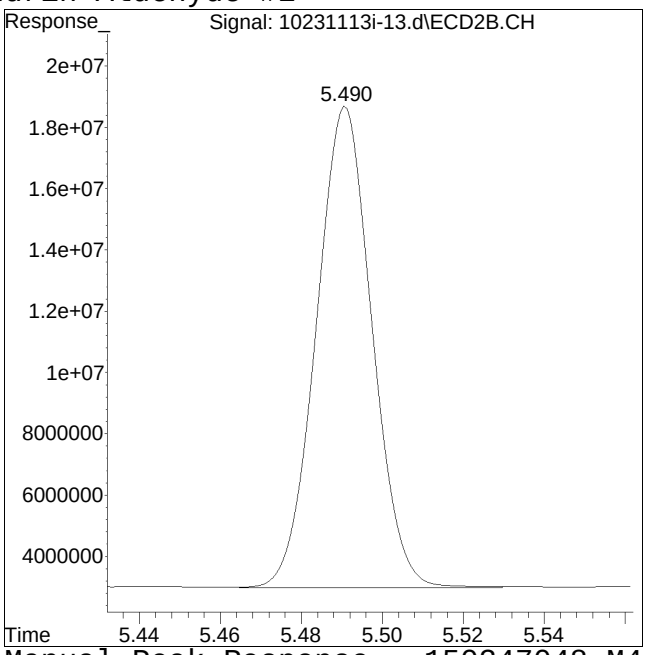
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-13.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:35 pm Instrument : Pest 10
Sample : cicvpest,42e,,pp 11375 L0.Quant Date : 11/14/2023 9:10 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 151801567



Manual Peak Response = 150347048 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:46 pm
Operator : PEST10:ejl
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:18:13 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:17:21 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.316	1.408	176.6E6	75743177	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:46 pm
Operator : PEST10:ejl
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:18:13 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:17:21 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.462	2.885	3193189	1427996	11.180	10.230
30) l1	chlordane-3	2.524	3.502	5167311	1851393	10.431	11.751M4
31) l1	chlordane-4	2.882	4.196	3793283	5679859	11.529	10.485
32) l1	chlordane-5	3.437	4.364	12785537	4832841	11.207M4	11.101
Sum	chlordane-1			24939319	13792089	NoCal	NoCal D
Average	chlordane-1					11.087	10.892
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

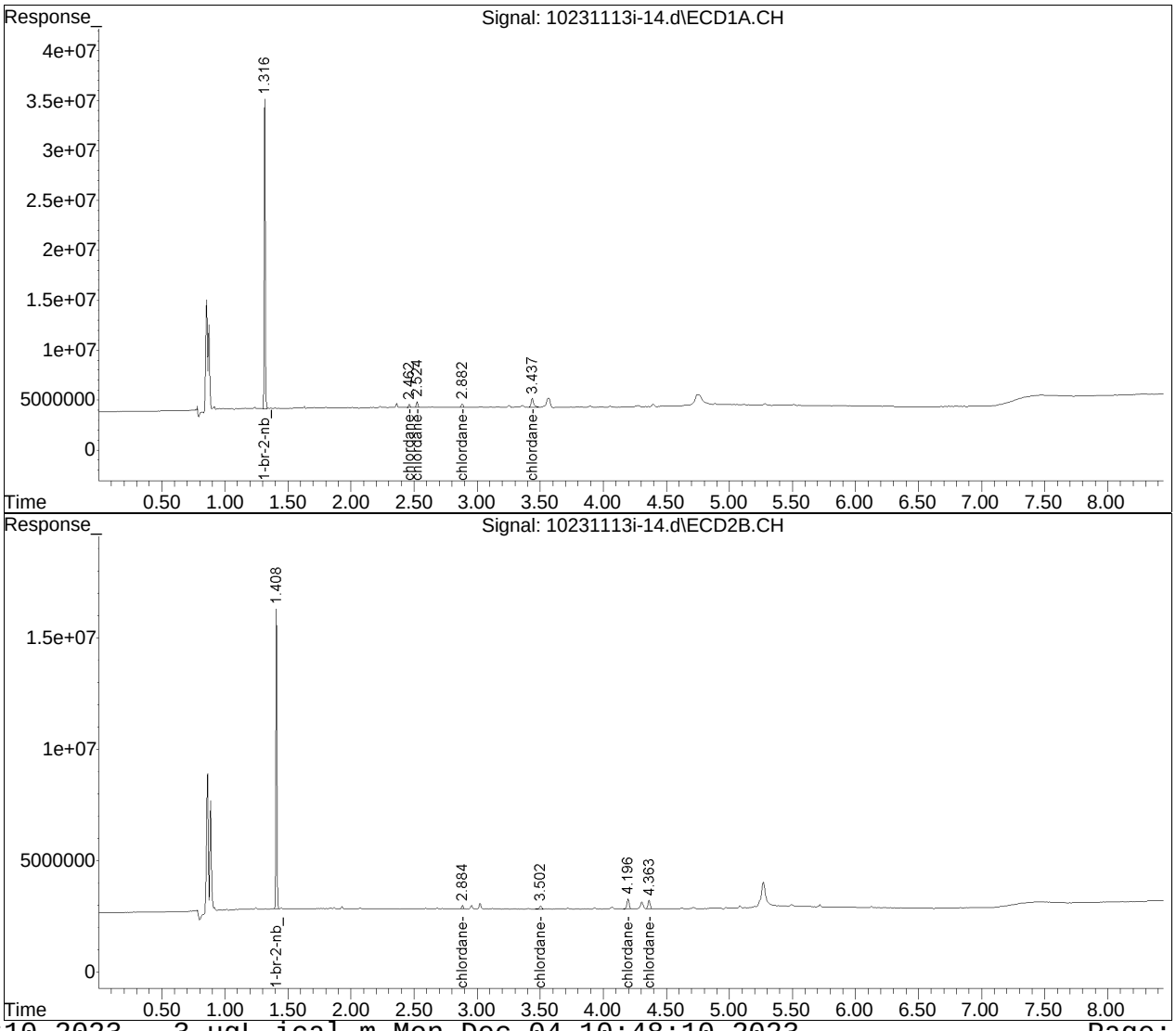
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:46 pm
Operator : PEST10:ejl
Sample : il3chlor,42e,,pp 11325 L0.01
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:18:13 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:17:21 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

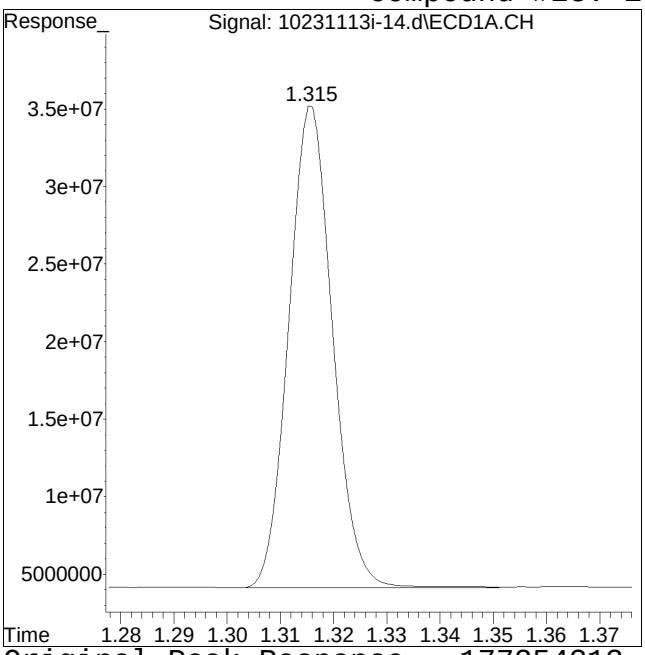
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

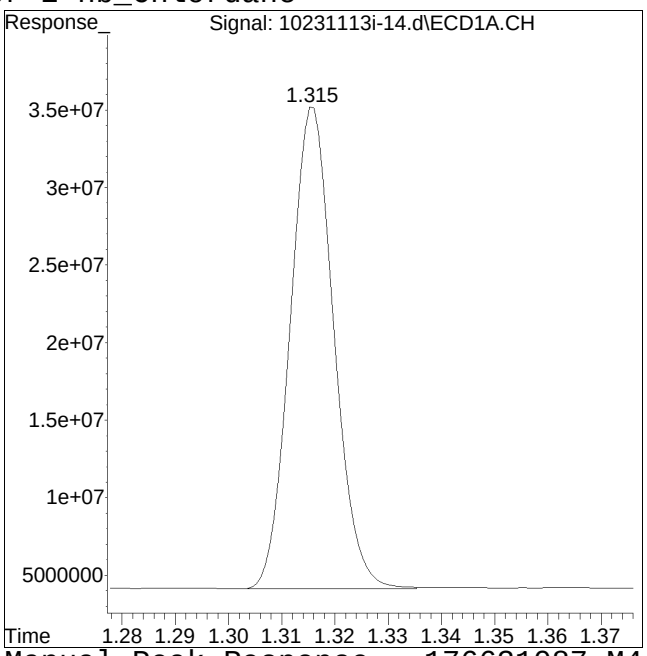


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-14.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:46 pm Instrument : Pest 10
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 11/14/2023 9:17 am

Compound #28: 1-br-2-nb_Chlordane



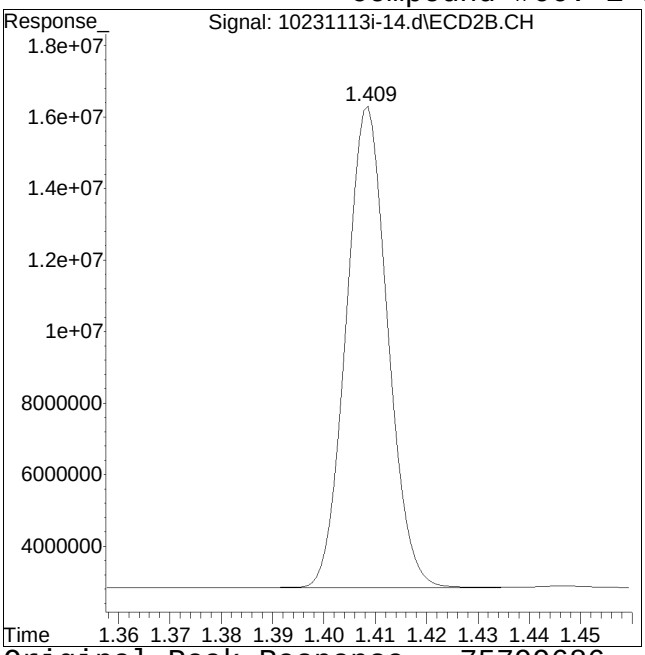


Original Peak Response = 177254313 Manual Peak Response = 176631087 M4
M4 = Poor automated baseline construction.

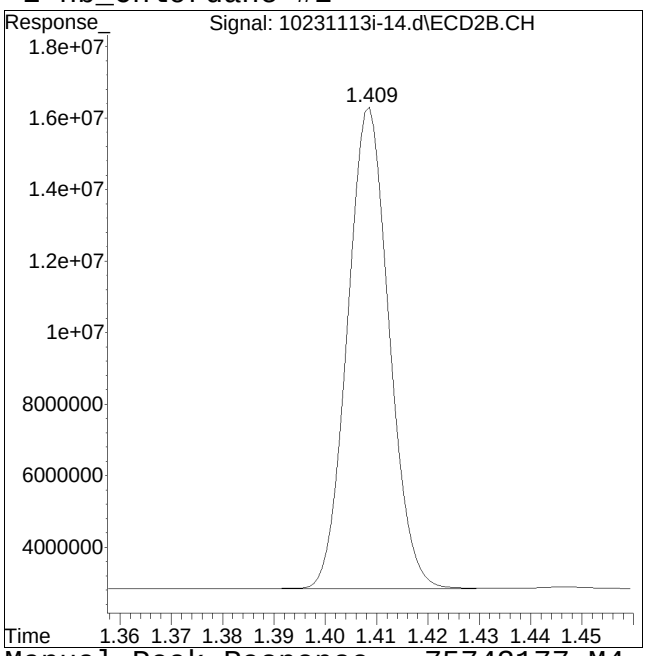
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-14.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:46 pm Instrument : Pest 10
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 11/14/2023 9:17 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 75799686



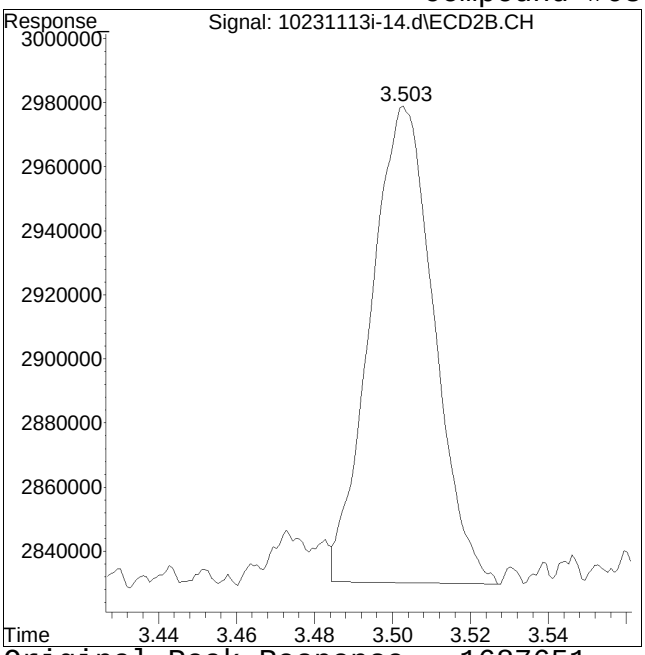
Manual Peak Response = 75743177 M4

M4 = Poor automated baseline construction.

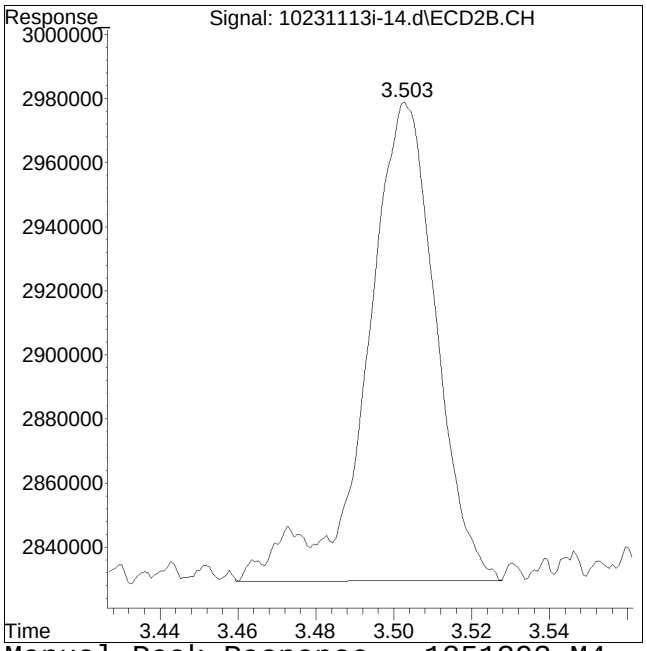
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-14.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:46 pm Instrument : Pest 10
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 11/14/2023 9:17 am

Compound #68: chlordane-3 #2



Original Peak Response = 1687651



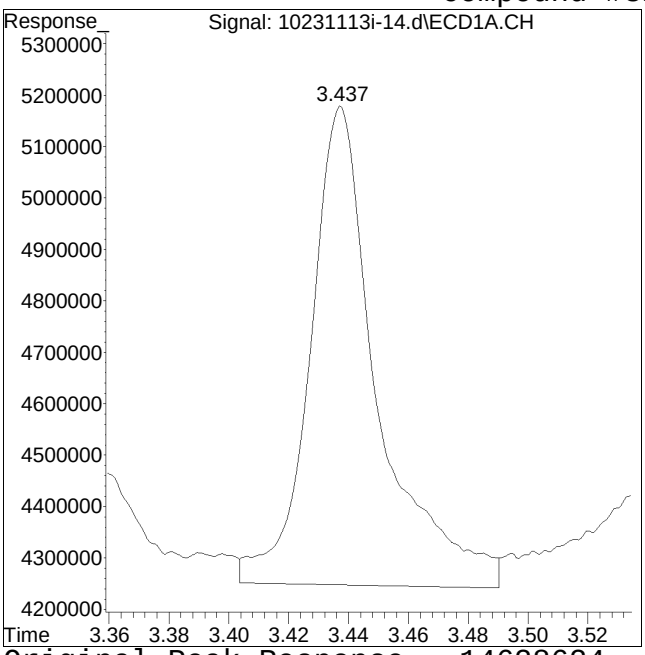
Manual Peak Response = 1851393 M4

M4 = Poor automated baseline construction.

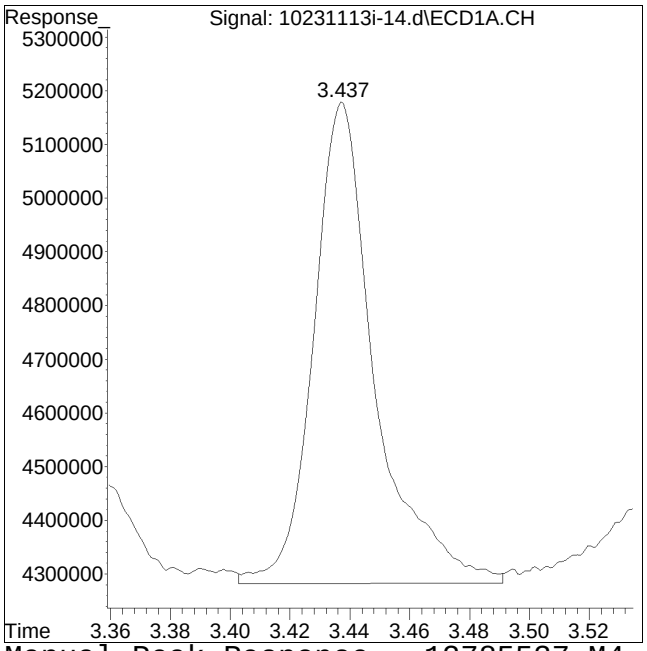
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-14.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:46 pm Instrument : Pest 10
Sample : il3chlor,42e,,pp 11325 L0.Quant Date : 11/14/2023 9:17 am

Compound #32: chlordane-5



Original Peak Response = 14628624



Manual Peak Response = 12785537 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:57 pm
Operator : PEST10:ejl
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:17:10 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:16:18 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.316	1.408	177.2E6	74877386	25.000M4	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D.	N.D.
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D.	N.D.
23) t	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:57 pm
Operator : PEST10:ejl
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:17:10 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:16:18 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D.	N.D.
25) t	Endosulfan S	0.000	0.000	0	0	N.D.	N.D.
26) t	Endrin Keton	0.000	0.000	0	0	N.D.	N.D.
29) l1	chlordane-1	2.463	2.884	6011365	2930006	21.193	21.499
30) l1	chlordane-3	2.525	3.503	10142852	3626954	20.499	24.079M4
31) l1	chlordane-4	2.882	4.197	7065960	11122198	21.719	20.929
32) l1	chlordane-5	3.438	4.363	22495882	9230780	19.594	21.764
Sum	chlordane-1			45716059	26909937	NoCal	NoCal D
Average	chlordane-1					20.751	22.068
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D.	N.D.
37) l2	toxaphene-5	0.000	0.000	0	0	N.D.	N.D.
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

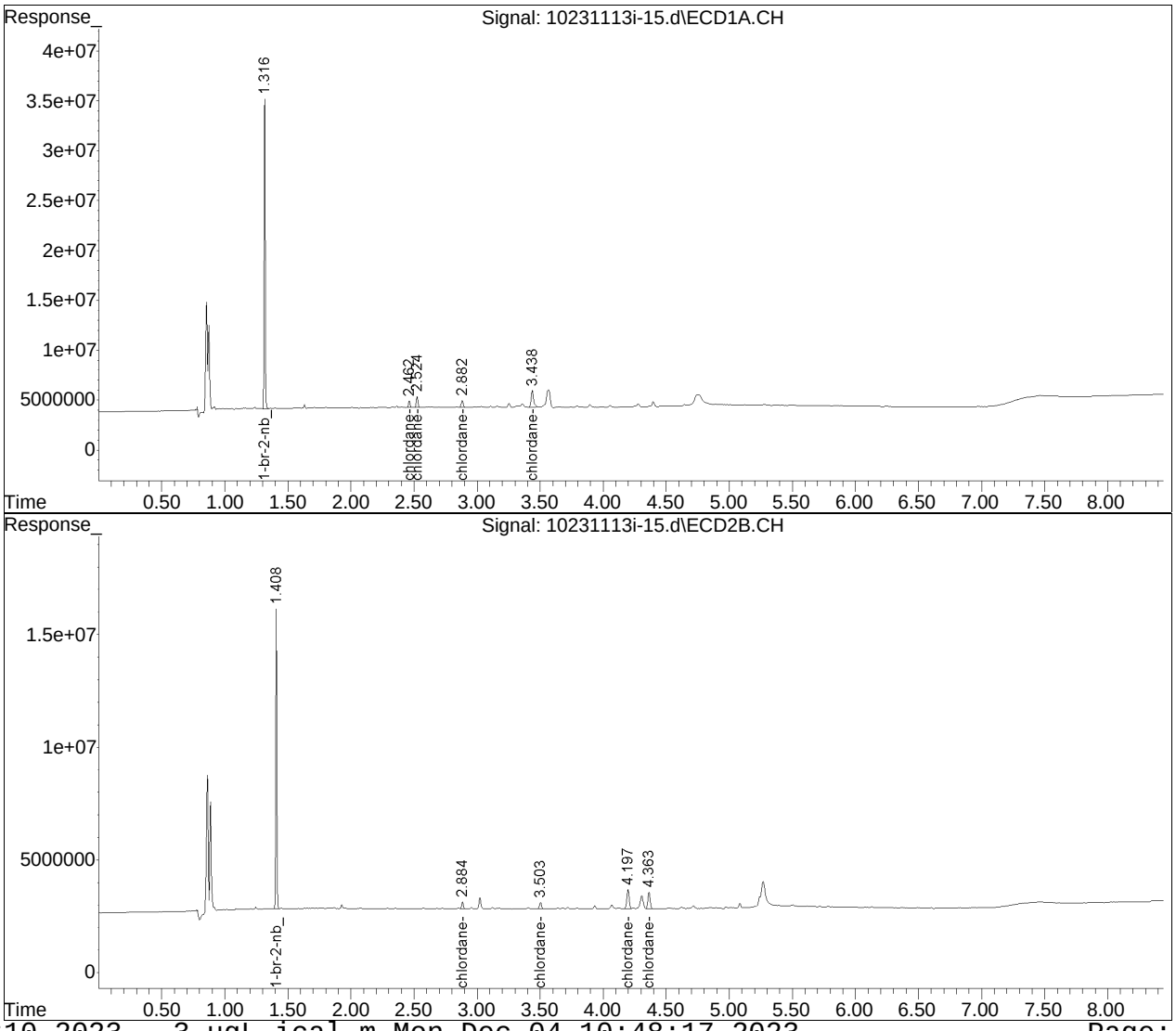
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 6:57 pm
Operator : PEST10:ejl
Sample : il4chlor,42e,,pp 11324 L0.02
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:17:10 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:16:18 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

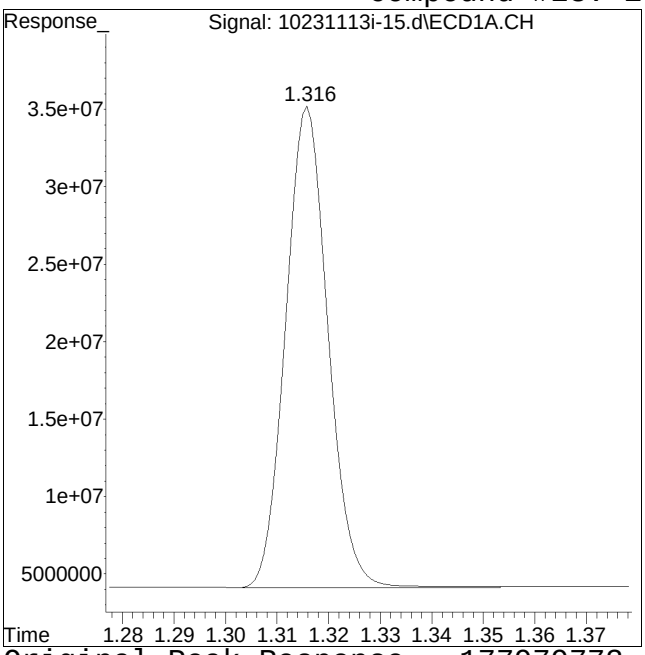
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



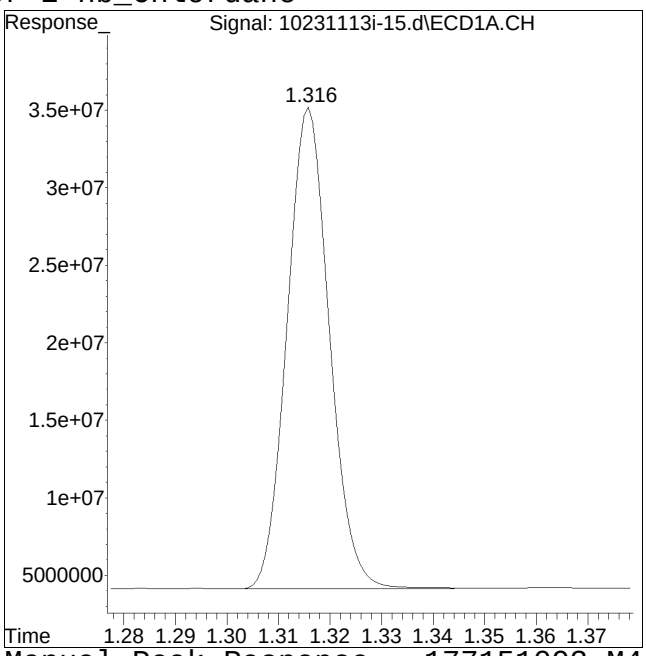
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-15.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:57 pm Instrument : Pest 10
Sample : il4chlor,42e,,pp 11324 L0.Quant Date : 11/14/2023 9:16 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 177979773



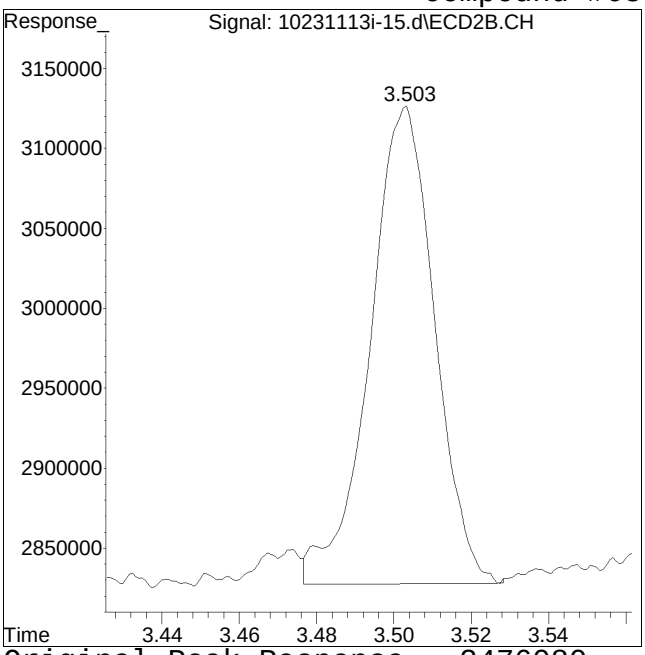
Manual Peak Response = 177151093 M4

M4 = Poor automated baseline construction.

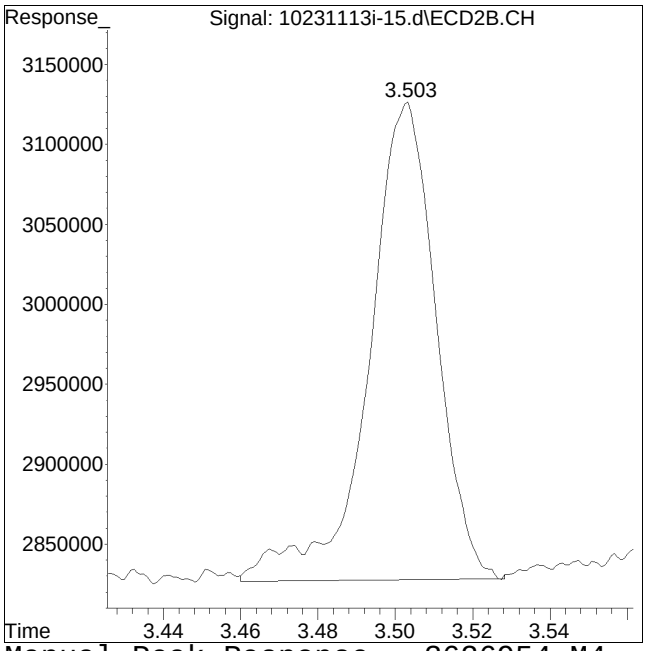
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-15.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 6:57 pm Instrument : Pest 10
Sample : il4chlor,42e,,pp 11324 L0.Quant Date : 11/14/2023 9:16 am

Compound #68: chlordane-3 #2



Original Peak Response = 3476080



Manual Peak Response = 3626954 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:08 pm
Operator : PEST10:ejl
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:16:02 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:15:21 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.315	1.409	173.1E6	75785222	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:08 pm
Operator : PEST10:ejl
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:16:02 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:15:21 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d	
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d	
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d	
29) l1	chlordane-1	2.462	2.885	28353991	14280306	102.882	104.445	
30) l1	chlordane-3	2.524	3.504	48653034	16780214	100.777	112.913	
31) l1	chlordane-4	2.881	4.198	34317118	52258444	110.124	96.474	
32) l1	chlordane-5	3.437	4.364	112.4E6	42774737	100.201	99.554	
Sum	chlordane-1			223.7E6	126.1E6	NoCal	NoCal	D
Average	chlordane-1					103.496	103.347	
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d	
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d	
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d	
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.	
Average	toxaphene-1					0.000	0.000	

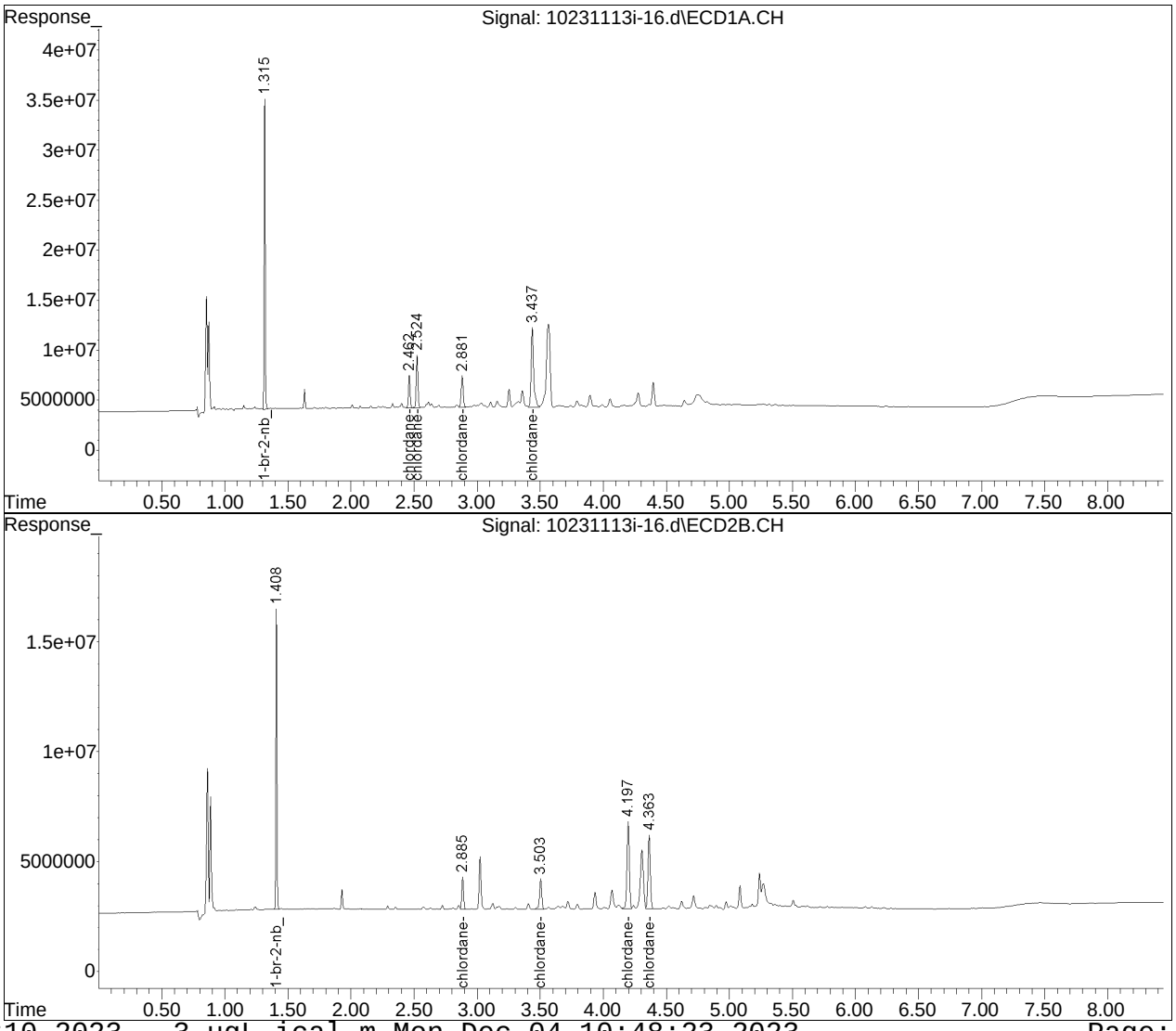
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:08 pm
Operator : PEST10:ejl
Sample : il5chlor,42e,,pp 11323 L0.1
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:16:02 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:15:21 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest10\2023\231113Q	Method	: pest10_2023_11_13_ugL_ic
Data File	: 10231113i-16.d	Operator	: PEST10:ejl
Date Inj'd	: 11/13/2023 7:08 pm	Instrument	: Pest 10
Sample	: il5chlor,42e,,pp 11323 L0.	Quant Date	: 11/14/2023 9:15 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:19 pm
Operator : PEST10:ejl
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:15:05 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:14:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.315	1.407	177.0E6	74075185	25.000M4	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:19 pm
Operator : PEST10:ejl
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:15:05 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:14:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.463	2.884	137.7E6	67037986	485.021	502.175
30) l1	chlordane-3	2.525	3.502	243.3E6	75295498	490.353	524.773
31) l1	chlordane-4	2.882	4.196	161.8E6	257.8E6	510.249	482.755
32) l1	chlordane-5	3.438	4.363	554.7E6	206.5E6	478.515	489.055
Sum	chlordane-1			1097.5E6	606.7E6	NoCal	NoCal D
Average	chlordane-1					491.034	499.690
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

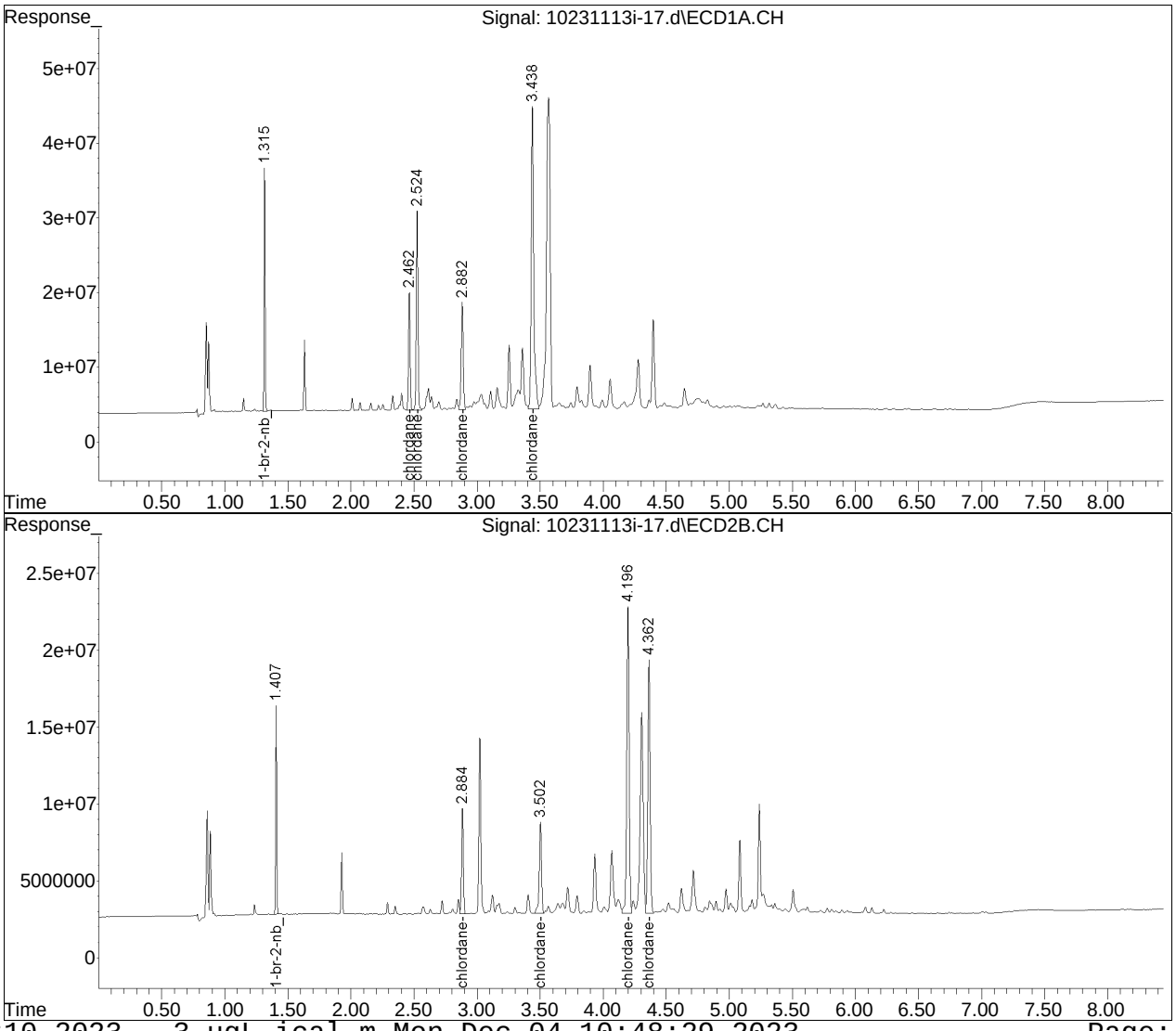
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:19 pm
Operator : PEST10:ejl
Sample : il7chlor,42e,,pp 11322 L0.5
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:15:05 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:14:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

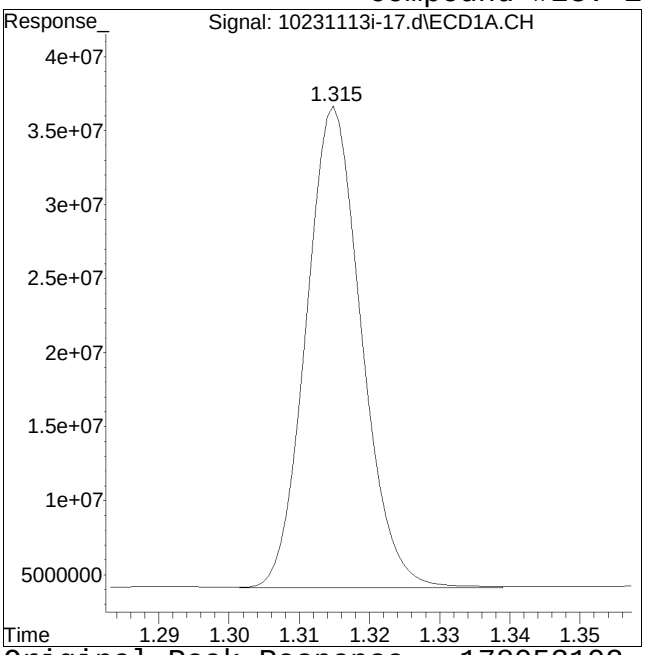
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



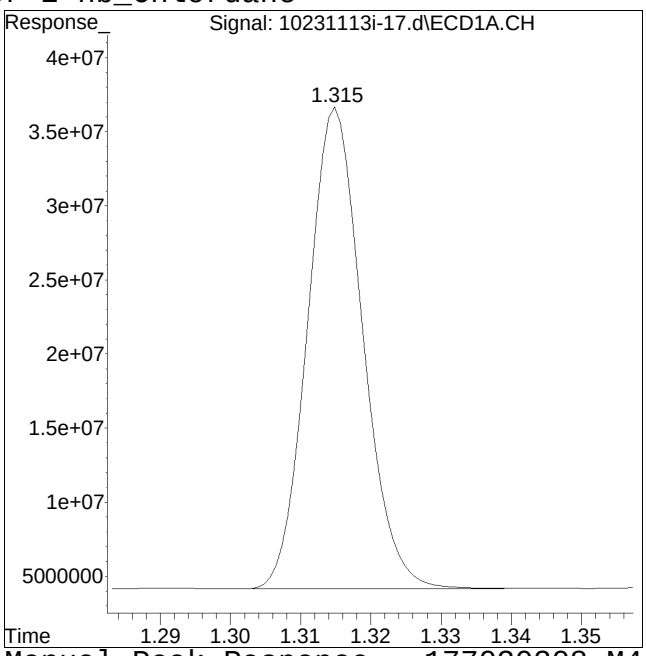
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-17.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 7:19 pm Instrument : Pest 10
Sample : il7chlor,42e,,pp 11322 L0.Quant Date : 11/14/2023 9:14 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 178053102



Manual Peak Response = 177030308 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:30 pm
Operator : PEST10:ejl
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:12:10 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:10:32 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.315	1.407	172.2E6	72381877	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:30 pm
Operator : PEST10:ejl
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:12:10 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:10:32 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.463	2.884	276.3E6	130.6E6	NoCal	NoCal
30) l1	chlordane-3	2.525	3.502	490.0E6	144.3E6	NoCal	NoCal
31) l1	chlordane-4	2.883	4.197	319.6E6	518.7E6	NoCal	NoCal
32) l1	chlordane-5	3.439	4.363	1137.0E6	412.1E6	NoCal	NoCal
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

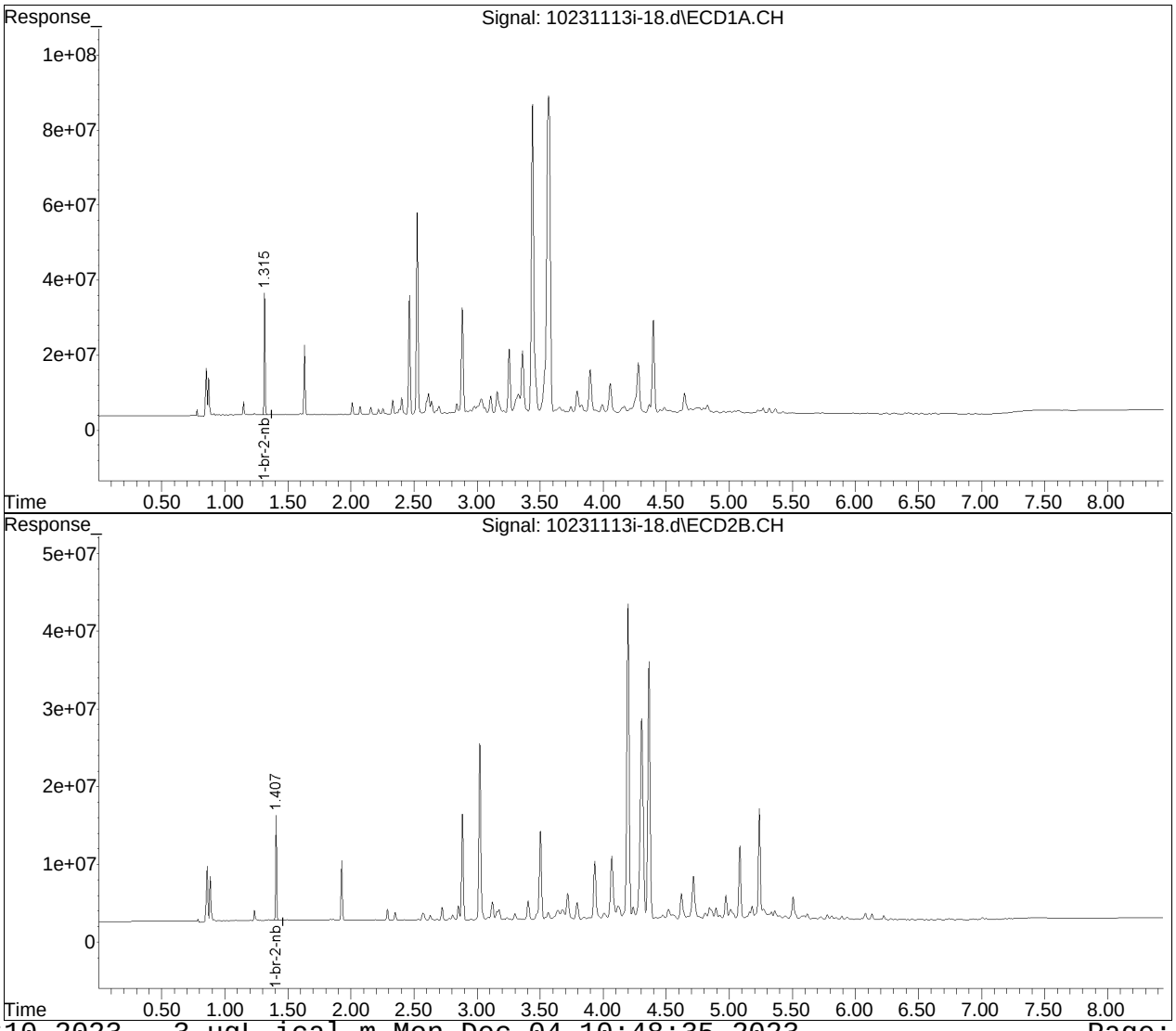
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:30 pm
Operator : PEST10:ejl
Sample : il8chlor,42e,,pp 11321 L1.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:12:10 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:10:32 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-18.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 7:30 pm Instrument : Pest 10
Sample : il8chlor,42e,,pp 11321 L1.Quant Date : 11/14/2023 9:11 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:41 pm
Operator : PEST10:ejl
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:12:56 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:12:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.315	1.407	176.8E6	74063448	25.000	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:41 pm
Operator : PEST10:ejl
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:12:56 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:12:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.463	2.884	569.1E6	268.7E6	2006.238	2011.329
30) l1	chlordane-3	2.525	3.502	1001.6E6	291.5E6	1990.936	1974.789
31) l1	chlordane-4	2.883	4.197	634.9E6	1079.4E6	1934.587	2033.639
32) l1	chlordane-5	3.439	4.363	2328.7E6	853.4E6	1995.015	2023.807
Sum	chlordane-1			4534.3E6	2493.0E6	NoCal	NoCal D
Average	chlordane-1					1981.694	2010.891
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

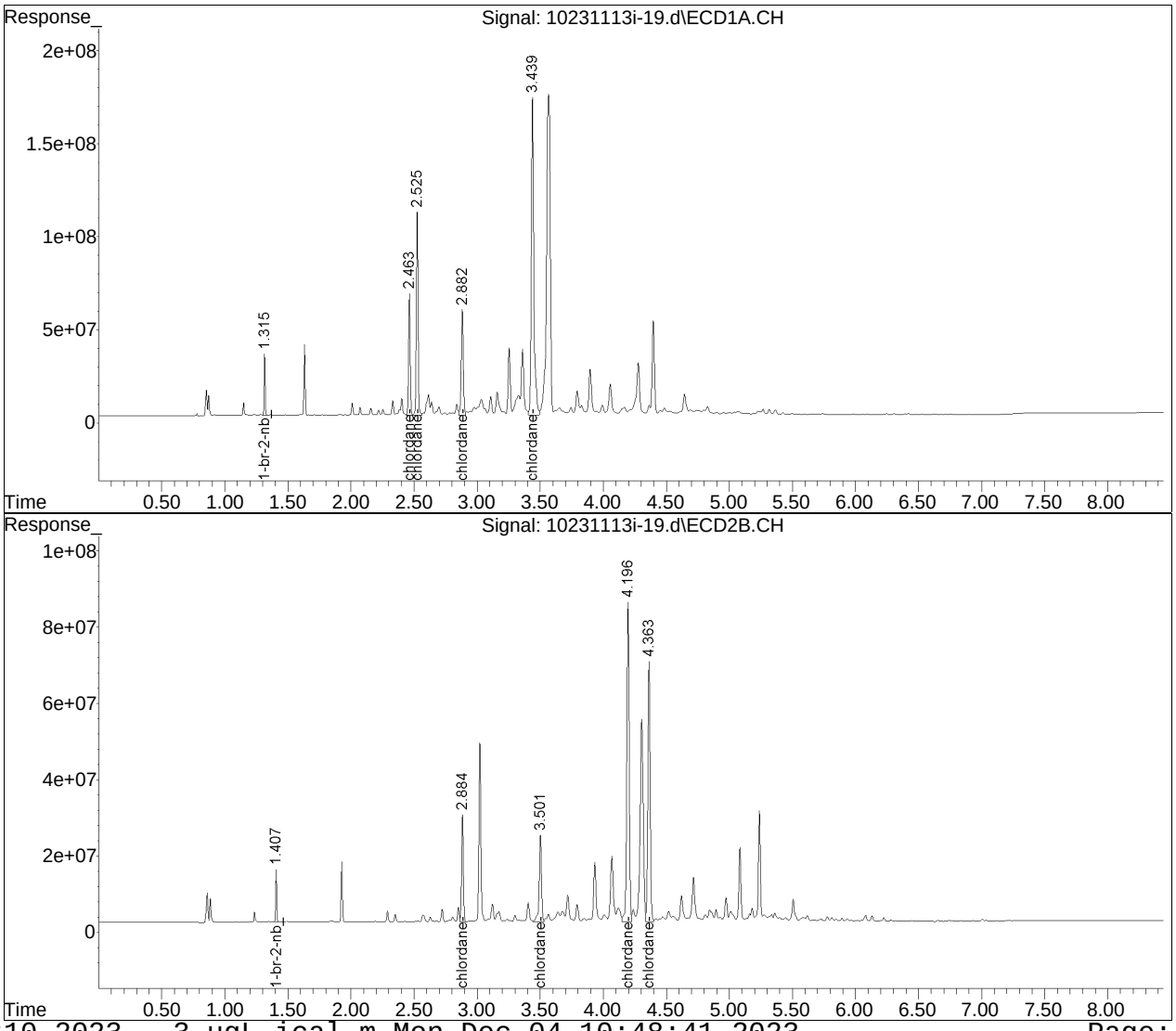
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:41 pm
Operator : PEST10:ejl
Sample : il9chlor,42e,,pp 11320 L2.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:12:56 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:12:29 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest10\2023\231113Q	Method	: pest10_2023_11_13_ugL_ic
Data File	: 10231113i-19.d	Operator	: PEST10:ejl
Date Inj'd	: 11/13/2023 7:41 pm	Instrument	: Pest 10
Sample	: il9chlor,42e,,pp 11320 L2.	Quant Date	: 11/14/2023 9:12 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:52 pm
Operator : PEST10:ejl
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:13:57 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:13:21 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.314	1.407	177.4E6	75602311	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:52 pm
Operator : PEST10:ejl
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:13:57 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:13:21 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.462	2.884	1417.6E6	675.9E6	4973.291	4941.890
30) l1	chlordane-3	2.524	3.502	2421.2E6	699.2E6	4808.198	4669.160
31) l1	chlordane-4	2.881	4.196	1527.0E6	2712.8E6	4715.168	4965.488
32) l1	chlordane-5	3.437	4.363	5729.5E6	2135.0E6	4898.760	4930.883
Sum	chlordane-1			11095.3E6	6222.9E6	NoCal	NoCal D
Average	chlordane-1					4848.854	4876.855
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

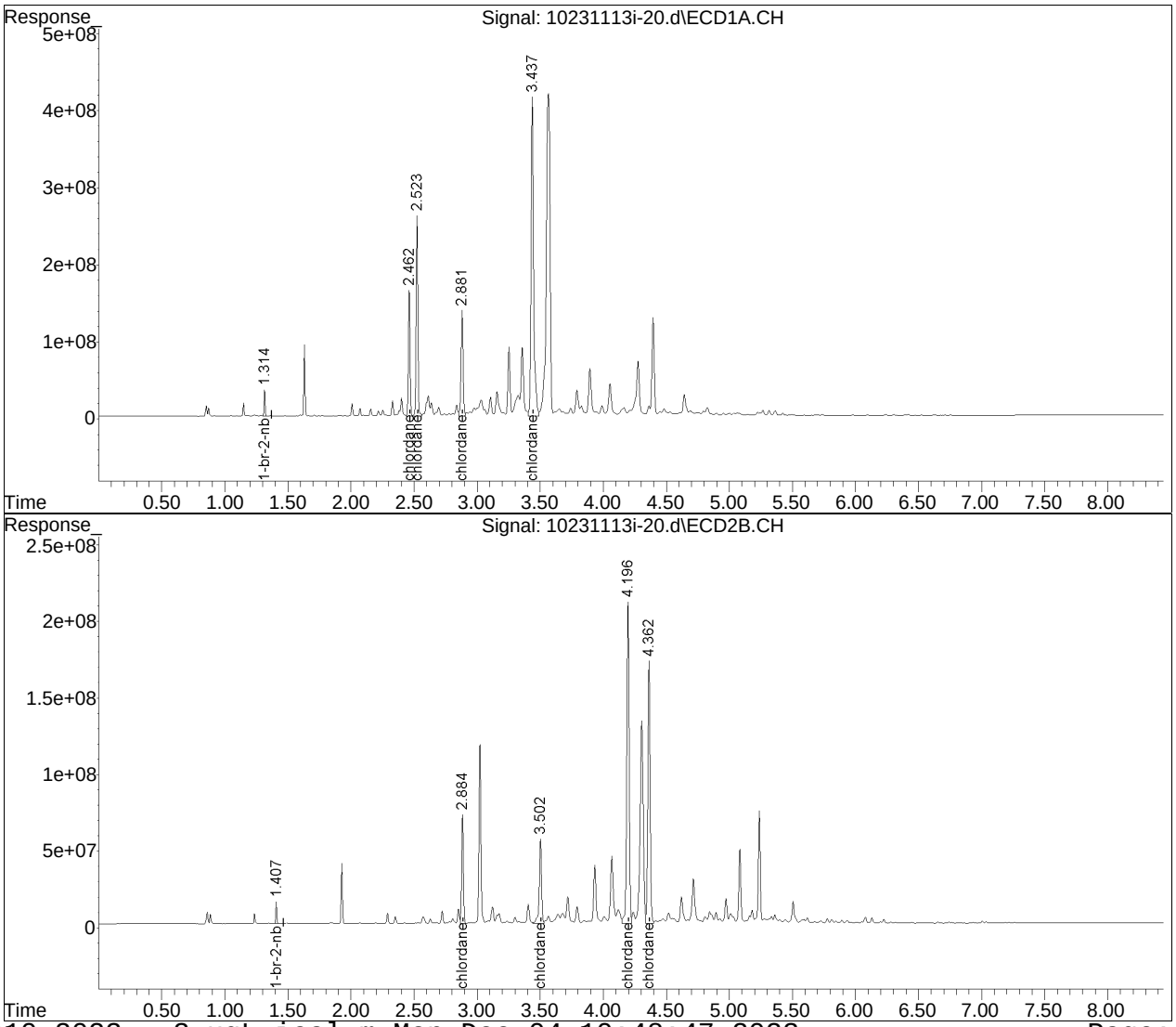
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 7:52 pm
Operator : PEST10:ejl
Sample : il10chlor,42e,,pp 11319 L5.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:13:57 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:13:21 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

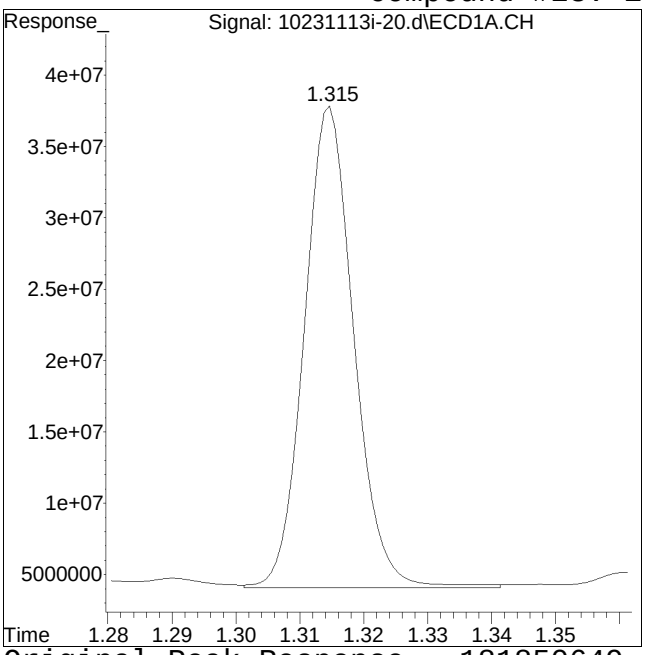
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

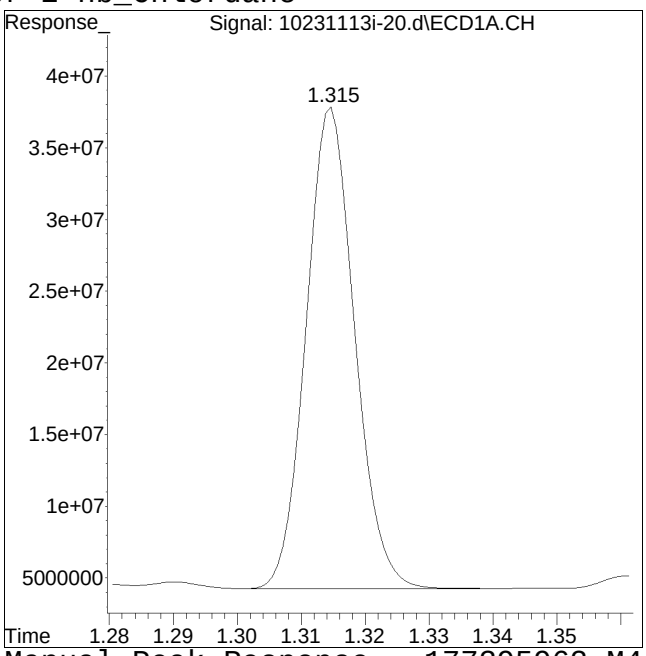


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-20.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 7:52 pm Instrument : Pest 10
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 11/14/2023 9:13 am

Compound #28: 1-br-2-nb_Chlordane



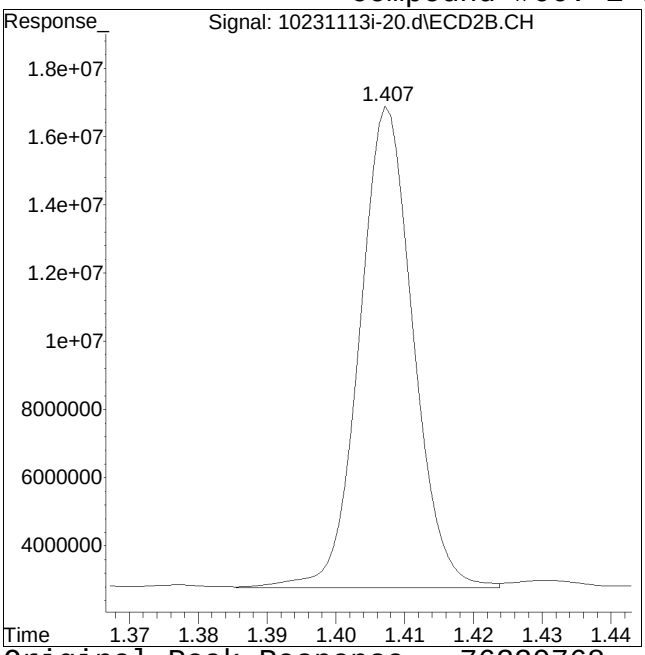


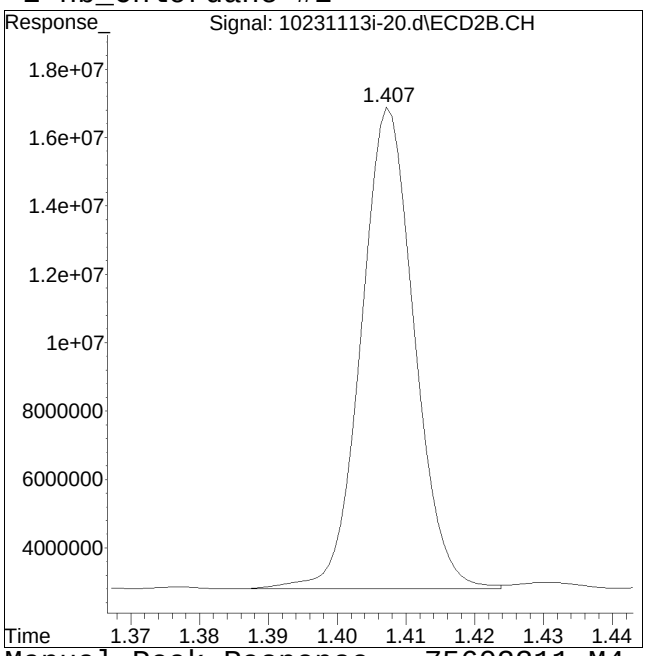
Original Peak Response = 181850649 Manual Peak Response = 177395962 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-20.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 7:52 pm Instrument : Pest 10
Sample : il10chlor,42e,,pp 11319 L5Quant Date : 11/14/2023 9:13 am

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 76330768 Manual Peak Response = 75602311 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Nov 2023   8:03 pm
Operator : PEST10:ejl
Sample   : cicvchlor,42e,,pp 11308 L1.0ICV
Misc   : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:20:18 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:20:05 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	103	0.00
29	l1	chlordane-1		*1000.000	846.181	15.4#	89	0.00
30	l1	chlordane-3		*1000.000	758.478	24.2#	78	0.00
31	l1	chlordane-4		*1000.000	925.424	7.5	92	0.00
32	l1	chlordane-5		*1000.000	908.650	9.1	94	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	101	0.00
29	l1	chlordane-1		0.046	0.039	15.2#	90	0.00
30	l1	chlordane-3		0.053	0.047	11.3	97	0.00
31	l1	chlordane-4		0.180	0.162	10.0	94	0.00
32	l1	chlordane-5		0.146	0.125	14.4	91	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.31#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.045	0.000	100.0#	0#	-1.66#
3	t	Hexachlorobenzene		1.118	0.000	100.0#	0#	-1.87#
4	t	alpha-BHC		1.422	0.000	100.0#	0#	-1.97#
5	t	gamma-BHC (lindane)		1.339	0.000	100.0#	0#	-2.18#
6	t	beta-BHC		0.619	0.000	100.0#	0#	-2.23#
7	t	delta-BHC		1.369	0.000	100.0#	0#	-2.36#
8	t	Heptachlor		1.308	0.000	100.0#	0#	-2.52#
9	t	Aldrin		1.199	0.000	100.0#	0#	-2.77#
10	t	Alachlor		0.283	0.000	100.0#	0#	-2.89#
11	t	Chlorpyrifos		0.635	0.000	100.0#	0#	-2.98#
12	t	Heptachlor Epoxide		1.183	0.000	100.0#	0#	-3.31#
13	t	gamma-Chlordane (trans)		1.079	0.000	100.0#	0#	-3.44#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Nov 2023   8:03 pm
Operator : PEST10:ejl
Sample   : cicvchlor,42e,,pp 11308 L1.0ICV
Misc   : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:20:18 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:20:05 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound			AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)			1.256	0.000	100.0#	0#	-3.57#
15	t	4,4'-DDE			1.160	0.000	100.0#	0#	-3.67#
16	t	Endosulfan I			1.139	0.000	100.0#	0#	-3.71#
17	t	Dieldrin			1.162	0.000	100.0#	0#	-3.97#
18	t	Endrin			1.210	0.000	100.0#	0#	-4.23#
19	t	4,4'-DDD			0.955	0.000	100.0#	0#	-4.34#
20	t	Endosulfan II			1.102	0.000	100.0#	0#	-4.47#
21	t	4,4'-DDT			1.095	0.000	100.0#	0#	-4.63#
22	t	Endrin Aldehyde			0.904	0.000	100.0#	0#	-4.89#
23	t	Methoxychlor			0.629	0.000	100.0#	0#	-5.11#
24	t	Mirex			0.996	0.000	100.0#	0#	-5.17#
25	t	Endosulfan Sulfate			1.079	0.000	100.0#	0#	-5.28#
26	t	Endrin Ketone			1.230	0.000	100.0#	0#	-5.51#
27	s	Decachlorobiphenyl			0.984	0.000	100.0#	0#	-6.31#
33	i	1-br-2-nb_Toxaphene		^	1.000	1.000	0.0	0	-1.31#
34	l2	toxaphene-1		*	0.044	0.000	100.0#	0#	-4.46#
35	l2	toxaphene-2		*	0.044	0.000	100.0#	0#	-4.58#
36	l2	toxaphene-4		*	0.043	0.000	100.0#	0#	-5.00#
37	l2	toxaphene-5		*	0.050	0.000	100.0#	0#	-5.18#

Signal #2

1	i	1-br-2-nb_Pesticides		^	1.000	1.000	0.0	0	-1.41#
2	s	2,4,5,6-Tetrachloro-m-xyl			1.041	0.000	100.0#	0#	-1.90#
3	t	Hexachlorobenzene			1.214	0.000	100.0#	0#	-2.23#
4	t	alpha-BHC			1.522	0.000	100.0#	0#	-2.32#
5	t	gamma-BHC (lindane)			1.451	0.000	100.0#	0#	-2.62#
6	t	beta-BHC			0.686	0.000	100.0#	0#	-2.68#
7	t	delta-BHC			1.463	0.000	100.0#	0#	-2.96#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Nov 2023   8:03 pm
Operator : PEST10:ejl
Sample   : cicvchlor,42e,,pp 11308 L1.0ICV
Misc   : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:20:18 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:20:05 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.525	0.000	100.0#	0#	-3.02#
9	t	Aldrin		1.405	0.000	100.0#	0#	-3.35#
10	t	Alachlor		0.209	0.000	100.0#	0#	-3.23#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.59#
12	t	Heptachlor Epoxide		1.450	0.000	100.0#	0#	-3.97#
13	t	gamma-Chlordane (trans)		1.283	0.000	100.0#	0#	-4.20#
14	t	alpha-Chlordane (cis)		1.451	0.000	100.0#	0#	-4.36#
15	t	4,4'-DDE		1.351	0.000	100.0#	0#	-4.55#
16	t	Endosulfan I		1.364	0.000	100.0#	0#	-4.42#
17	t	Dieldrin		1.362	0.000	100.0#	0#	-4.71#
18	t	Endrin		1.415	0.000	100.0#	0#	-5.00#
19	t	4,4'-DDD		1.113	0.000	100.0#	0#	-5.12#
20	t	Endosulfan II		1.325	0.000	100.0#	0#	-5.20#
21	t	4,4'-DDT		1.284	0.000	100.0#	0#	-5.39#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.49#
23	t	Methoxychlor		0.744	0.000	100.0#	0#	-5.95#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.09#
25	t	Endosulfan Sulfate		1.292	0.000	100.0#	0#	-5.72#
26	t	Endrin Ketone		1.412	0.000	100.0#	0#	-6.13#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.98#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.41#
34	l2	toxaphene-1	*	0.026	0.000	100.0#	0#	-5.16#
35	l2	toxaphene-2	*	0.042	0.000	100.0#	0#	-5.18#
36	l2	toxaphene-4	*	0.058	0.000	100.0#	0#	-5.50#
37	l2	toxaphene-5	*	0.045	0.000	100.0#	0#	-5.90#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:03 pm
Operator : PEST10:ejl
Sample : cicvchlor,42e,,pp 11308 L1.0ICV
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:20:18 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:20:05 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.315	1.407	180.7E6	75028935	25.000M3	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:03 pm
Operator : PEST10:ejl
Sample : cicvchlor,42e,,pp 11308 L1.0ICV
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:20:18 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:20:05 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.462	2.884	244.8E6	117.7E6	846.181	848.538
30) l1	chlordane-3	2.524	3.502	379.8E6	140.4E6	758.478	877.624
31) l1	chlordane-4	2.882	4.196	295.4E6	487.4E6	925.424	902.113
32) l1	chlordane-5	3.438	4.362	1066.8E6	374.7E6	908.650	855.324
Sum	chlordane-1			1986.7E6	1120.2E6	NoCal	NoCal D
Average	chlordane-1					859.683	870.900
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

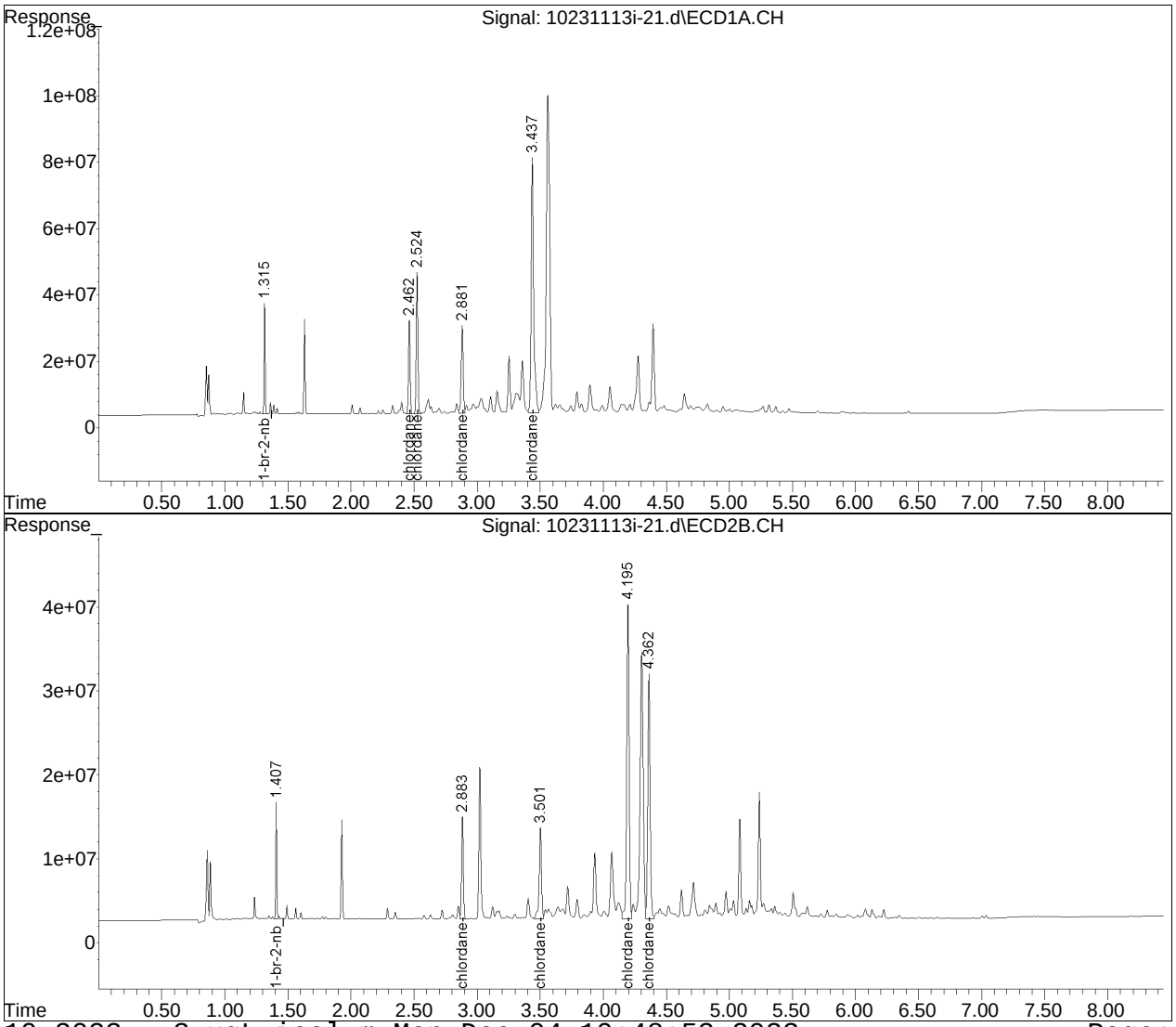
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:03 pm
Operator : PEST10:ejl
Sample : cicvchlor,42e,,pp 11308 L1.0ICV
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:20:18 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:20:05 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

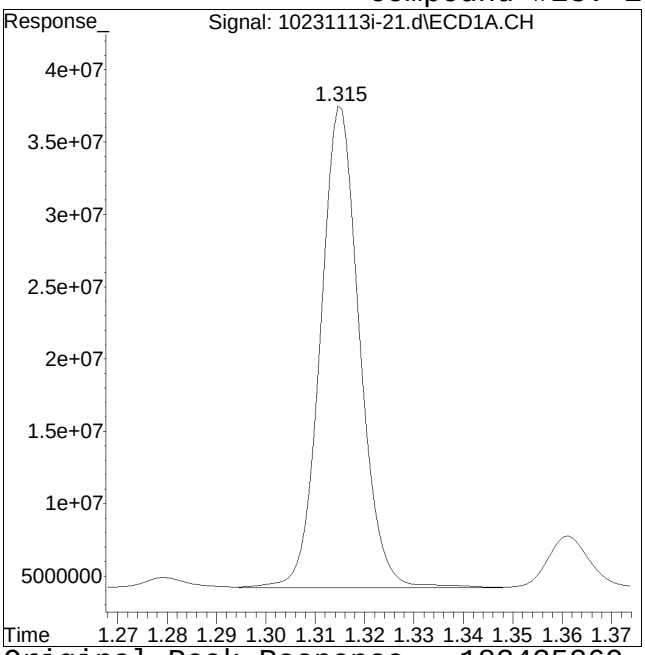
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

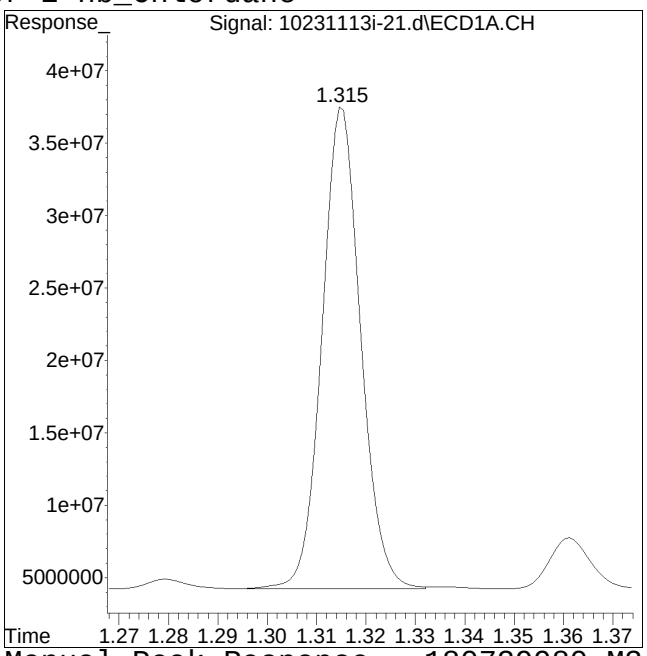


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-21.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 8:03 pm Instrument : Pest 10
Sample : cicvchlor,42e,,pp 11308 L1Quant Date : 11/14/2023 9:20 am

Compound #28: 1-br-2-nb_Chlordane



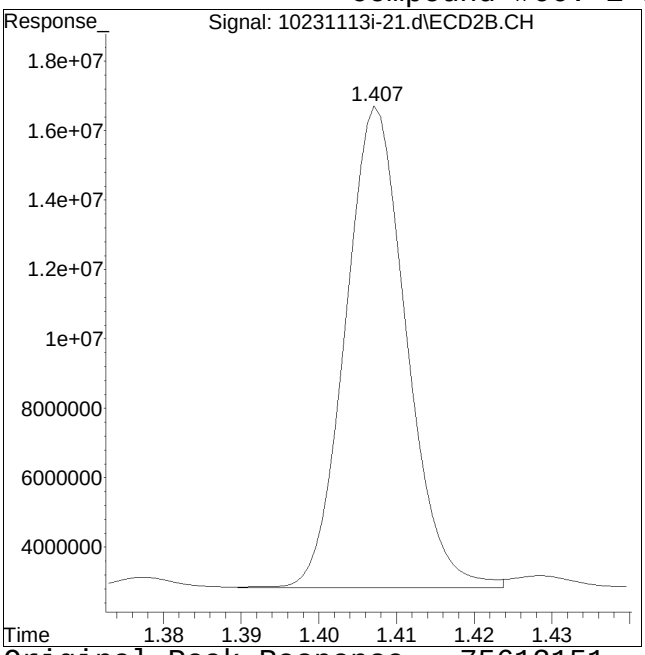


Original Peak Response = 183435269 Manual Peak Response = 180729980 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

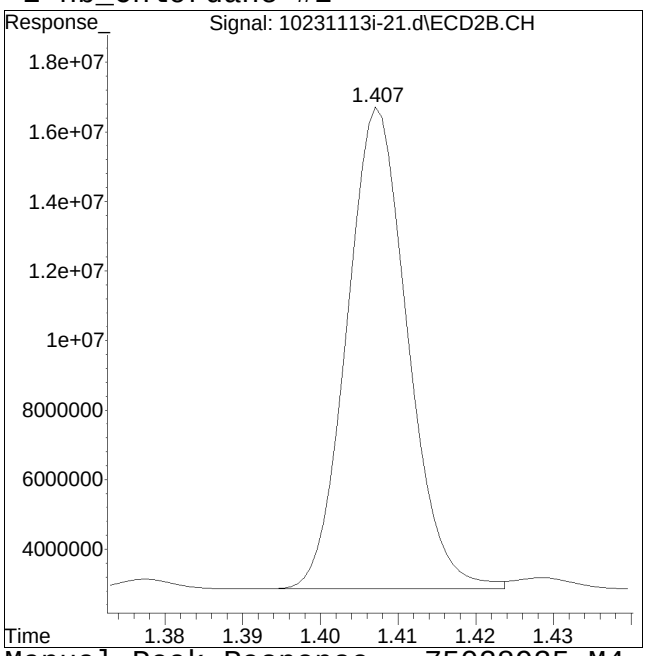
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-21.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 8:03 pm Instrument : Pest 10
Sample : cicvchlor,42e,,pp 11308 L1Quant Date : 11/14/2023 9:20 am

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 75612151



Manual Peak Response = 75028935 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:14 pm
Operator : PEST10:ejl
Sample : il3tox,42e,,pp 11328 L0.02
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:24:25 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:22:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.315	1.407	175.2E6	74424896	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D.	N.D.
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D.	N.D.
6) t	beta-BHC	0.000	0.000	0	0	N.D.	N.D.
7) t	delta-BHC	0.000	0.000	0	0	N.D.	N.D.
8) t	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
9) t	Aldrin	0.000	0.000	0	0	N.D.	N.D.
10) t	Alachlor	0.000	0.000	0	0	N.D.	N.D.
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D.	N.D.
12) t	Heptachlor E	0.000	0.000	0	0	N.D.	N.D.
13) t	gamma-Chlord	0.000	0.000	0	0	N.D.	N.D.
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:14 pm
Operator : PEST10:ejl
Sample : il3tox,42e,,pp 11328 L0.02
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:24:25 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:22:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D.	N.D.
30) l1	chlordane-3	0.000	0.000	0	0	N.D.	N.D.
31) l1	chlordane-4	0.000	0.000	0	0	N.D.	N.D.
32) l1	chlordane-5	0.000	0.000	0	0	N.D.	N.D.
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.461	5.154	5751693	1202283	17.852	14.103M4
35) l2	toxaphene-2	4.582	5.185	6159567	2600709	19.753	20.954M4
36) l2	toxaphene-4	5.001	5.498	7177224	4244267	26.046	27.787
37) l2	toxaphene-5	5.187	5.903	8012113	2360926	24.926	16.696
Sum	toxaphene-1			27100597	10408185	88.577	79.540
Average	toxaphene-1					22.144	19.885

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			27100597	10408185	88.577	79.540
Average	toxaphene-1					22.144	19.885

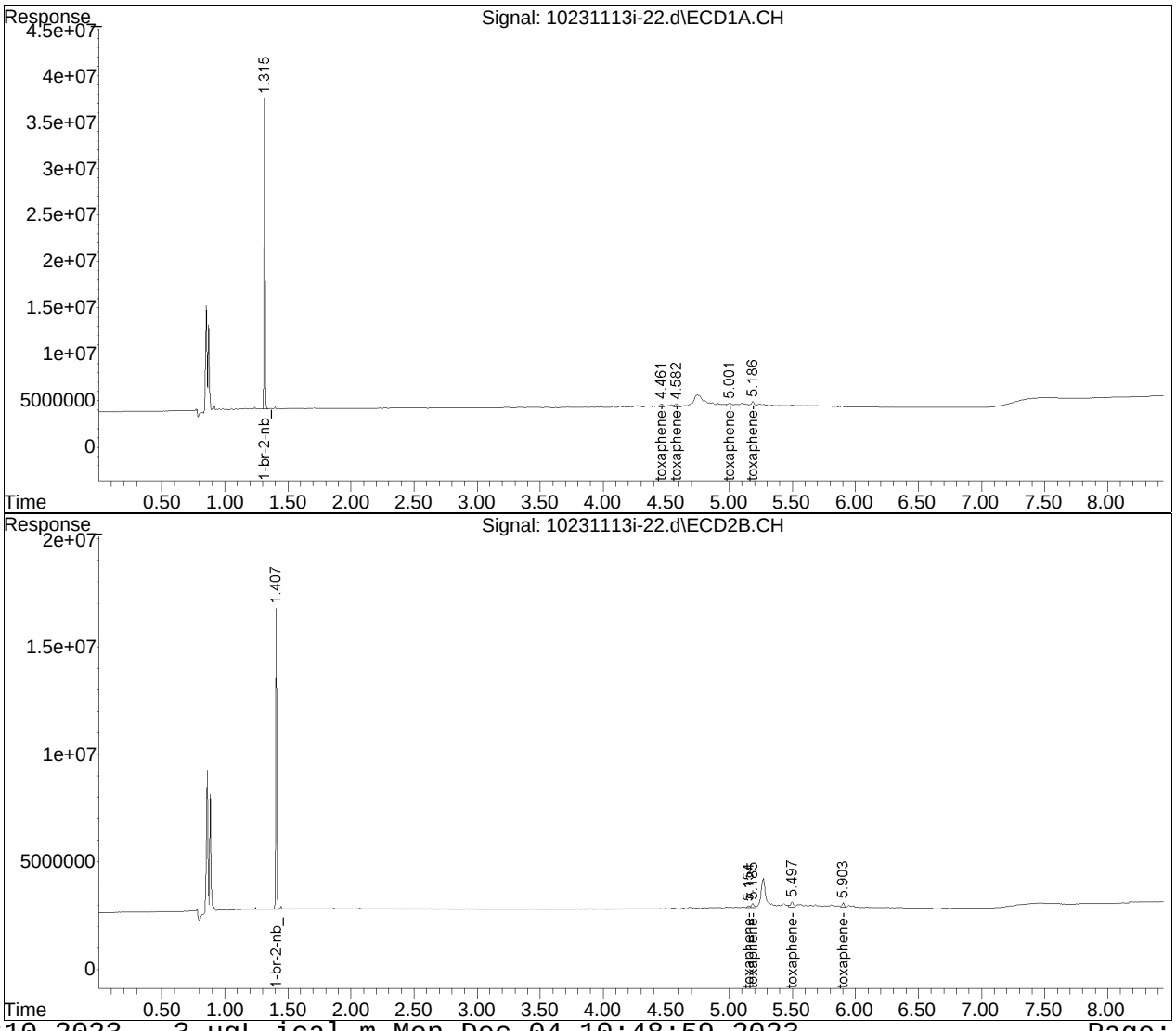
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:14 pm
Operator : PEST10:ejl
Sample : il3tox,42e,,pp 11328 L0.02
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:24:25 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:22:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

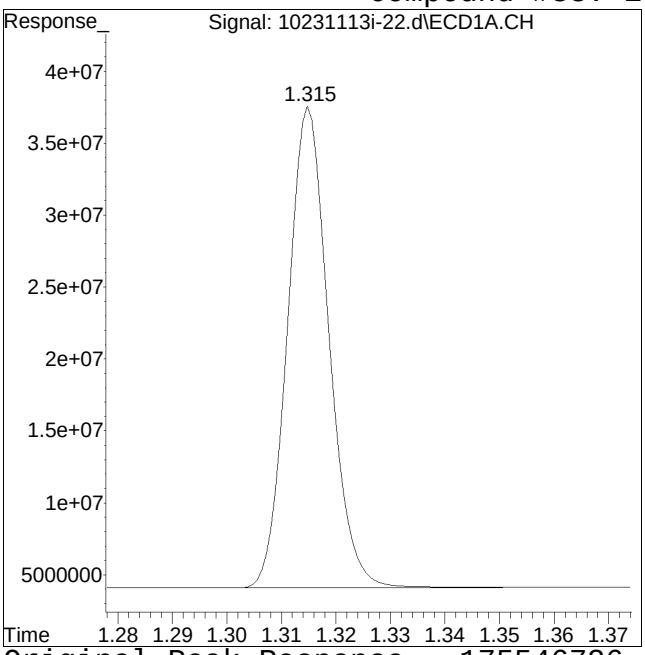
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

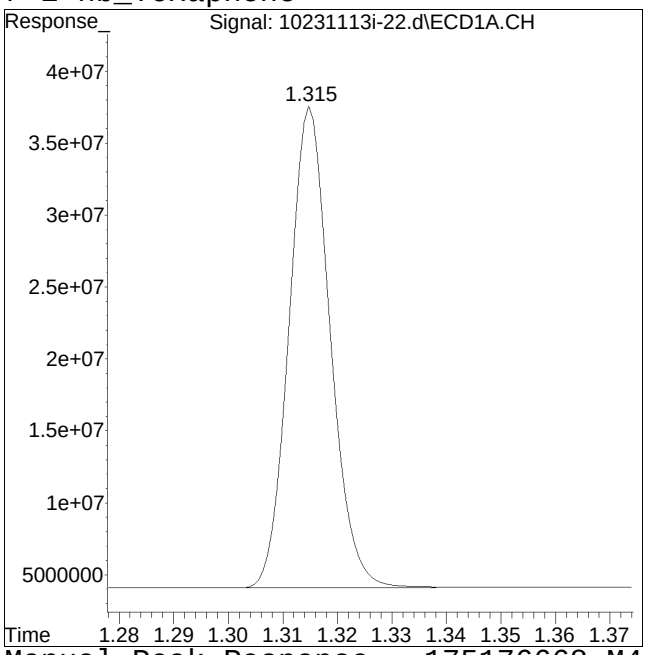


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-22.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 8:14 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 11/14/2023 9:22 am

Compound #33: 1-br-2-nb_Toxaphene





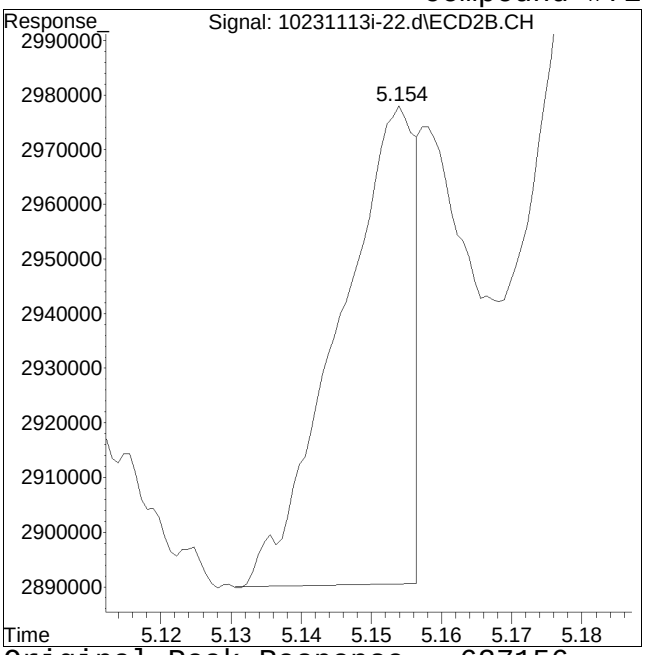
Original Peak Response = 175546726 Manual Peak Response = 175176668 M4
M4 = Poor automated baseline construction.

Manual Integration Report

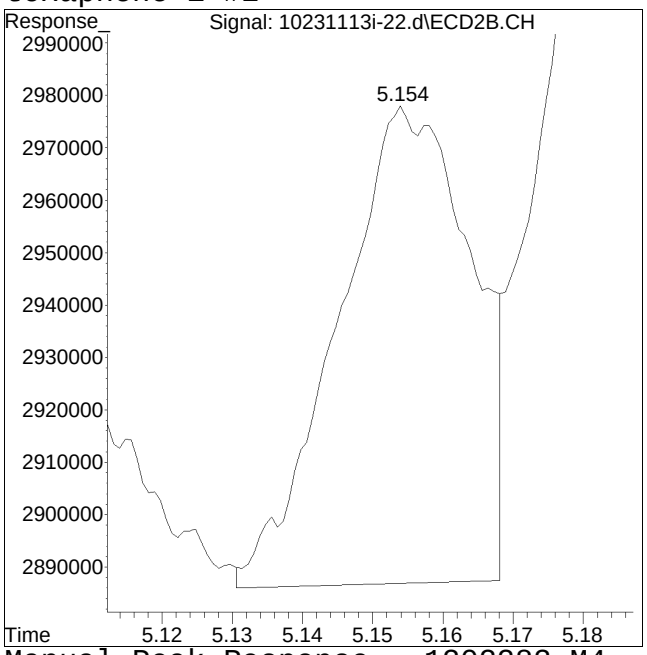
Data Path : I:\PEST\Pest10\2023\231113Q
Data File : 10231113i-22.d
Date Inj'd : 11/13/2023 8:14 pm
Sample : il3tox,42e,,pp 11328 L0.02

Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:ejl
Instrument : Pest 10
Quant Date : 11/14/2023 9:22 am

Compound #72: toxaphene-1 #2



Original Peak Response = 627156



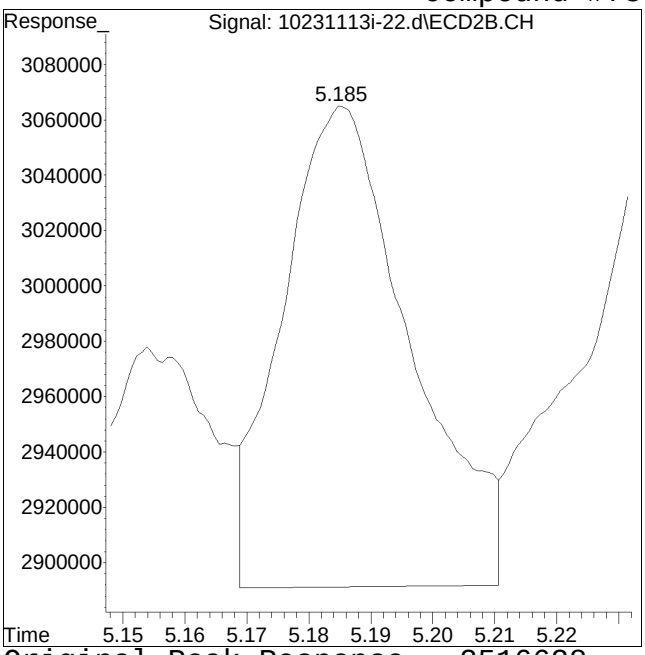
Manual Peak Response = 1202283 M4

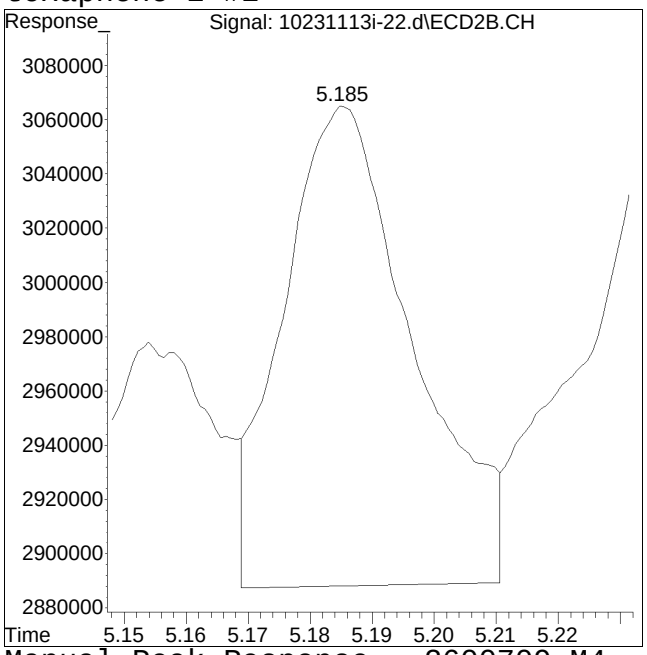
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-22.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 8:14 pm Instrument : Pest 10
Sample : il3tox,42e,,pp 11328 L0.02Quant Date : 11/14/2023 9:22 am

Compound #73: toxaphene-2 #2





Original Peak Response = 2516628 Manual Peak Response = 2600709 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:25 pm
Operator : PEST10:ejl
Sample : il8tox,42e,,pp 11327 L2.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:21:23 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:19:50 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.314	1.408	177.5E6	73650379	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:25 pm
Operator : PEST10:ejl
Sample : il8tox,42e,,pp 11327 L2.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:21:23 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:19:50 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.459	5.156	661.7E6	170.8E6	NoCal	NoCal
35) l2	toxaphene-2	4.583	5.185	633.2E6	249.7E6	NoCal	NoCal
36) l2	toxaphene-4	5.000	5.498	554.0E6	306.5E6	NoCal	NoCal
37) l2	toxaphene-5	5.185	5.903	653.1E6	282.8E6	NoCal	NoCal
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

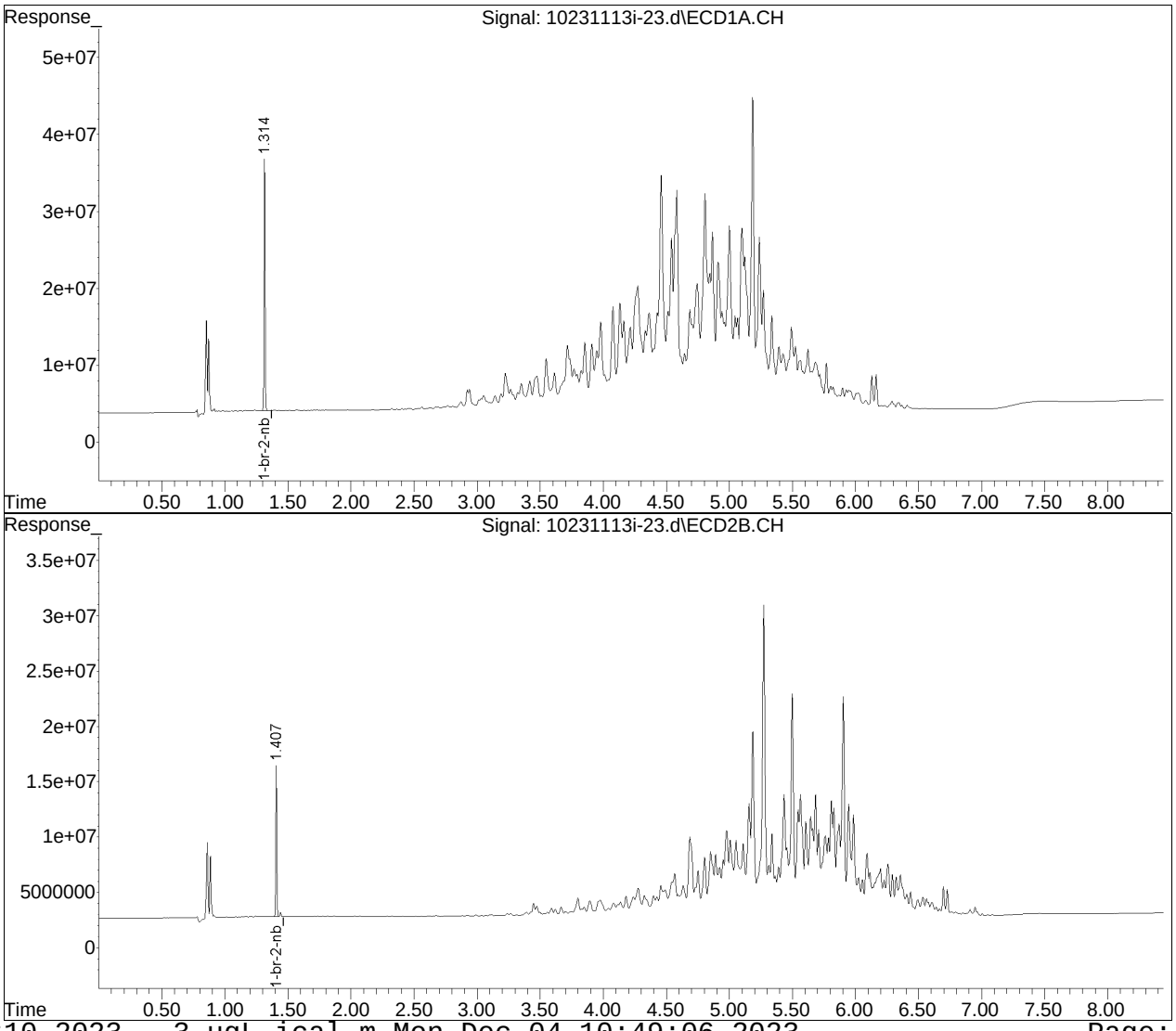
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:25 pm
Operator : PEST10:ejl
Sample : il8tox,42e,,pp 11327 L2.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:21:23 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:19:50 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest10\2023\231113	QMethod	: pest10_2023_11_13_ugL_ic
Data File	: 10231113i-23.d	Operator	: PEST10:ejl
Date Inj'd	: 11/13/2023 8:25 pm	Instrument	: Pest 10
Sample	: il8tox,42e,,pp 11327 L2.0	Quant Date	: 11/14/2023 9:21 am

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

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:36 pm
Operator : PEST10:ejl
Sample : il9tox,42e,,pp 11326 L5.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:22:38 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:21:57 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.314	1.408	180.0E6	75471954	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:36 pm
Operator : PEST10:ejl
Sample : il9tox,42e,,pp 11326 L5.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:22:38 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:21:57 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.460	5.157	1632.8E6	426.8E6	4865.256	4876.743
35) l2	toxaphene-2	4.584	5.186	1598.7E6	619.0E6	4978.041	4839.347
36) l2	toxaphene-4	5.000	5.498	1426.8E6	763.8E6	5077.967	4864.804
37) l2	toxaphene-5	5.185	5.903	1646.9E6	709.4E6	4971.891	4895.975
Sum	toxaphene-1			6305.1E6	2519.2E6	19893.154	19476.868
Average	toxaphene-1					4973.289	4869.217

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			6305.1E6	2519.2E6	19893.154	19476.868
Average	toxaphene-1					4973.289	4869.217

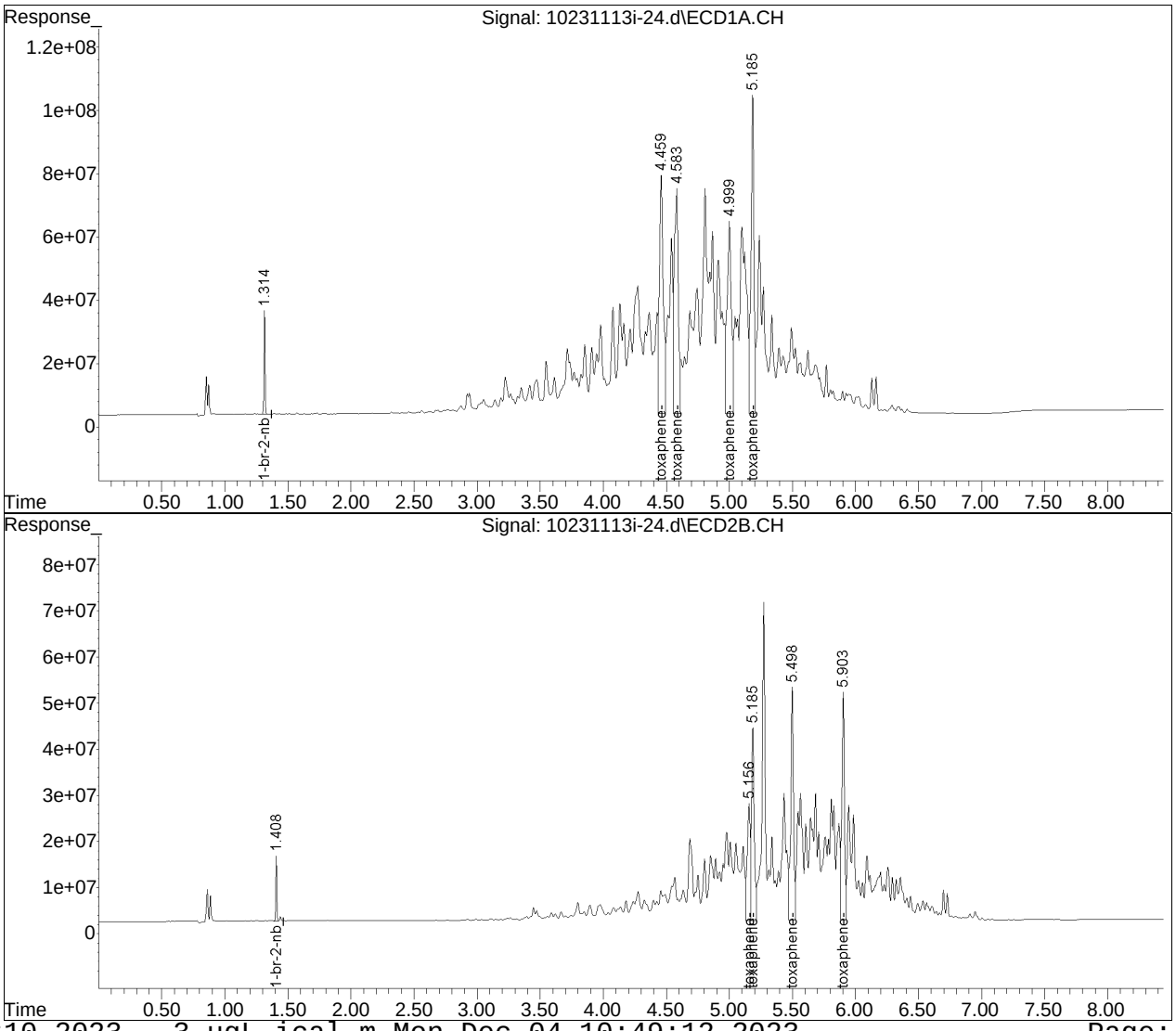
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:36 pm
Operator : PEST10:ejl
Sample : il9tox,42e,,pp 11326 L5.0
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:22:38 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:21:57 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

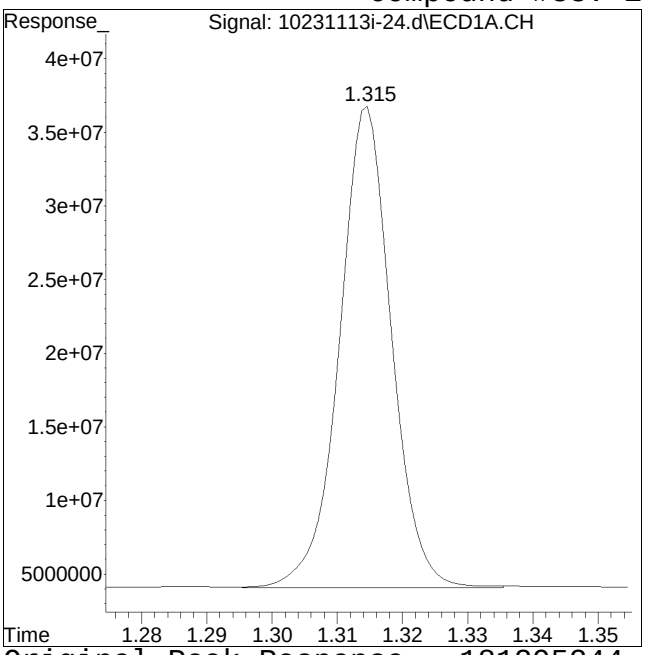
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

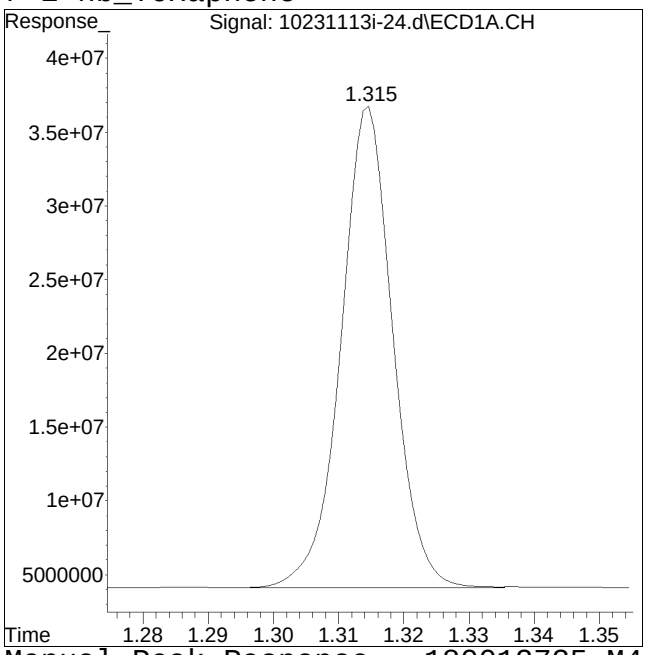


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231113QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231113i-24.d Operator : PEST10:ejl
Date Inj'd : 11/13/2023 8:36 pm Instrument : Pest 10
Sample : il9tox,42e,,pp 11326 L5.0 Quant Date : 11/14/2023 9:22 am

Compound #33: 1-br-2-nb_Toxaphene





Original Peak Response = 181295244 Manual Peak Response = 180012735 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Nov 2023   8:47 pm
Operator : PEST10:ejl
Sample   : cicvtox,42e,,pp 11371 L2.0ICV
Misc   : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:25:53 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:25:23 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	96	0.00
34	l2	toxaphene-1		*2000.000	2037.576	-1.9	96	0.00
35	l2	toxaphene-2		*2000.000	1986.338	0.7	95	0.00
36	l2	toxaphene-4		*2000.000	2032.664	-1.6	99	0.00
37	l2	toxaphene-5		*2000.000	2018.205	-0.9	96	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	96	0.00
34	l2	toxaphene-1		*2000.000	1992.525	0.4	95	0.00
35	l2	toxaphene-2		*2000.000	2019.330	-1.0	96	0.00
36	l2	toxaphene-4		*2000.000	2009.987	-0.5	96	0.00
37	l2	toxaphene-5		*2000.000	2010.850	-0.5	96	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.31#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.045	0.000	100.0#	0#	-1.66#
3	t	Hexachlorobenzene		1.118	0.000	100.0#	0#	-1.87#
4	t	alpha-BHC		1.422	0.000	100.0#	0#	-1.97#
5	t	gamma-BHC (lindane)		1.339	0.000	100.0#	0#	-2.18#
6	t	beta-BHC		0.619	0.000	100.0#	0#	-2.23#
7	t	delta-BHC		1.369	0.000	100.0#	0#	-2.36#
8	t	Heptachlor		1.308	0.000	100.0#	0#	-2.52#
9	t	Aldrin		1.199	0.000	100.0#	0#	-2.77#
10	t	Alachlor		0.283	0.000	100.0#	0#	-2.89#
11	t	Chlorpyrifos		0.635	0.000	100.0#	0#	-2.98#
12	t	Heptachlor Epoxide		1.183	0.000	100.0#	0#	-3.31#
13	t	gamma-Chlordane (trans)		1.079	0.000	100.0#	0#	-3.44#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Nov 2023   8:47 pm
Operator : PEST10:ejl
Sample   : cicvtox,42e,,pp 11371 L2.0ICV
Misc   : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:25:53 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:25:23 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.256	0.000	100.0#	0#	-3.57#
15	t	4,4'-DDE		1.160	0.000	100.0#	0#	-3.67#
16	t	Endosulfan I		1.139	0.000	100.0#	0#	-3.71#
17	t	Dieldrin		1.162	0.000	100.0#	0#	-3.97#
18	t	Endrin		1.210	0.000	100.0#	0#	-4.23#
19	t	4,4'-DDD		0.955	0.000	100.0#	0#	-4.34#
20	t	Endosulfan II		1.102	0.000	100.0#	0#	-4.47#
21	t	4,4'-DDT		1.095	0.000	100.0#	0#	-4.63#
22	t	Endrin Aldehyde		0.904	0.000	100.0#	0#	-4.89#
23	t	Methoxychlor		0.629	0.000	100.0#	0#	-5.11#
24	t	Mirex		0.996	0.000	100.0#	0#	-5.17#
25	t	Endosulfan Sulfate		1.079	0.000	100.0#	0#	-5.28#
26	t	Endrin Ketone		1.230	0.000	100.0#	0#	-5.51#
27	s	Decachlorobiphenyl		0.984	0.000	100.0#	0#	-6.31#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.46#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.52#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-2.88#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.44#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.41#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.041	0.000	100.0#	0#	-1.90#
3	t	Hexachlorobenzene		1.214	0.000	100.0#	0#	-2.23#
4	t	alpha-BHC		1.522	0.000	100.0#	0#	-2.32#
5	t	gamma-BHC (lindane)		1.451	0.000	100.0#	0#	-2.62#
6	t	beta-BHC		0.686	0.000	100.0#	0#	-2.68#
7	t	delta-BHC		1.463	0.000	100.0#	0#	-2.96#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 13 Nov 2023   8:47 pm
Operator : PEST10:ejl
Sample   : cicvtox,42e,,pp 11371 L2.0ICV
Misc   : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:25:53 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:25:23 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.525	0.000	100.0#	0#	-3.02#
9	t	Aldrin		1.405	0.000	100.0#	0#	-3.35#
10	t	Alachlor		0.209	0.000	100.0#	0#	-3.23#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.59#
12	t	Heptachlor Epoxide		1.450	0.000	100.0#	0#	-3.97#
13	t	gamma-Chlordane (trans)		1.283	0.000	100.0#	0#	-4.20#
14	t	alpha-Chlordane (cis)		1.451	0.000	100.0#	0#	-4.36#
15	t	4,4'-DDE		1.351	0.000	100.0#	0#	-4.55#
16	t	Endosulfan I		1.364	0.000	100.0#	0#	-4.42#
17	t	Dieldrin		1.362	0.000	100.0#	0#	-4.71#
18	t	Endrin		1.415	0.000	100.0#	0#	-5.00#
19	t	4,4'-DDD		1.113	0.000	100.0#	0#	-5.12#
20	t	Endosulfan II		1.325	0.000	100.0#	0#	-5.20#
21	t	4,4'-DDT		1.284	0.000	100.0#	0#	-5.39#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.49#
23	t	Methoxychlor		0.744	0.000	100.0#	0#	-5.95#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.09#
25	t	Endosulfan Sulfate		1.292	0.000	100.0#	0#	-5.72#
26	t	Endrin Ketone		1.412	0.000	100.0#	0#	-6.13#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.98#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.41#
29	l1	chlordane-1		0.046	0.000	100.0#	0#	-2.88#
30	l1	chlordane-3		0.053	0.000	100.0#	0#	-3.50#
31	l1	chlordane-4		0.180	0.000	100.0#	0#	-4.20#
32	l1	chlordane-5		0.146	0.000	100.0#	0#	-4.36#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:47 pm
Operator : PEST10:ejl
Sample : cicvtox,42e,,pp 11371 L2.0ICV
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:25:53 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:25:23 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.315	1.407	170.0E6	71312128	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D.	N.D.
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:47 pm
Operator : PEST10:ejl
Sample : cicvtox,42e,,pp 11371 L2.0ICV
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:25:53 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:25:23 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.461	5.156	633.1E6	161.7E6	2037.576	1992.525
35) l2	toxaphene-2	4.585	5.184	600.5E6	238.5E6	1986.338	2019.330
36) l2	toxaphene-4	5.001	5.497	546.0E6	292.9E6	2032.664	2009.987
37) l2	toxaphene-5	5.186	5.902	629.5E6	271.0E6	2018.205	2010.850
Sum	toxaphene-1			2409.1E6	964.2E6	8074.784	8032.692
Average	toxaphene-1					2018.696	2008.173

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			2409.1E6	964.2E6	8074.784	8032.692
Average	toxaphene-1					2018.696	2008.173

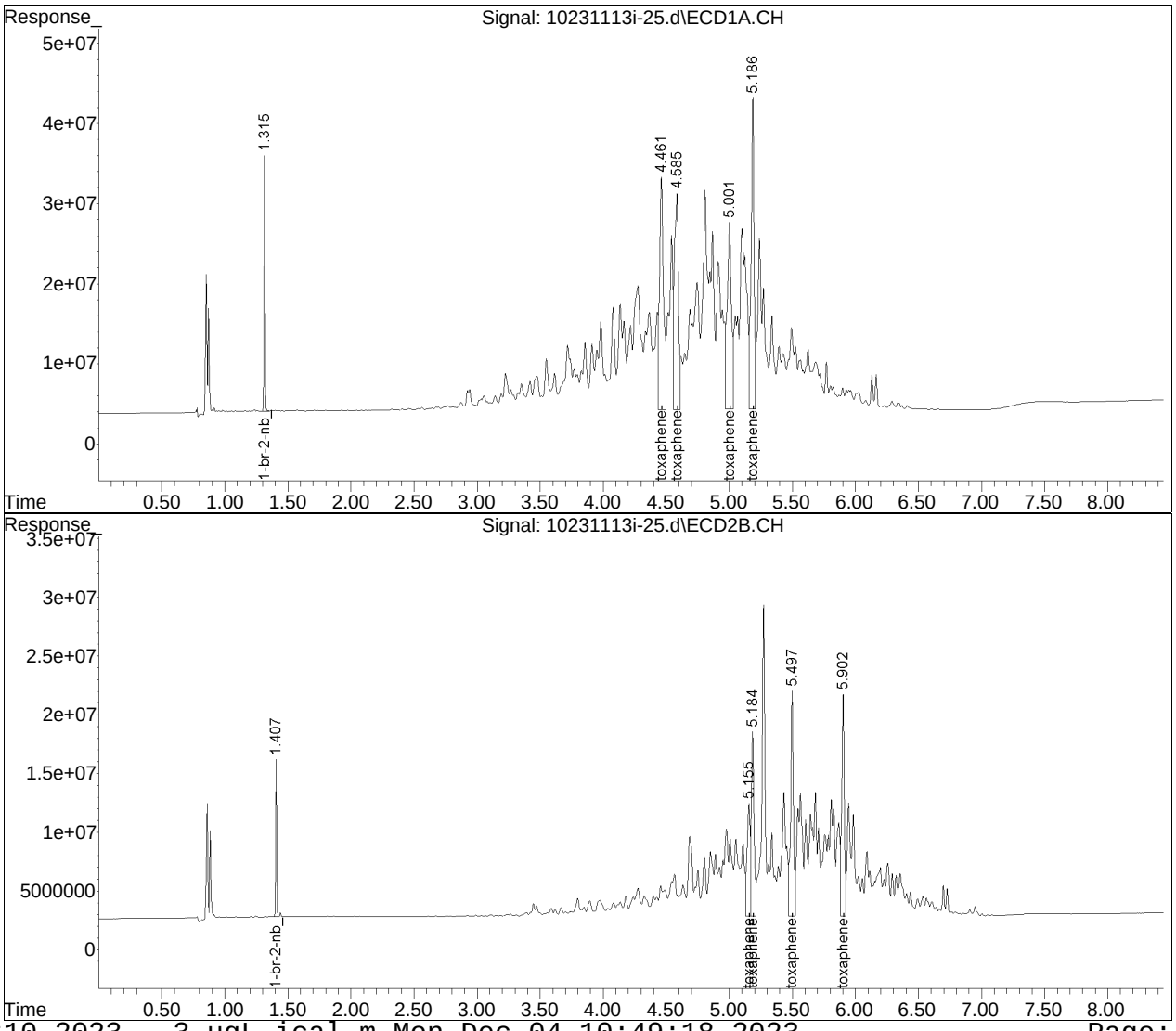
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231113ical\
Data File : 10231113i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Nov 2023 8:47 pm
Operator : PEST10:ejl
Sample : cicvtox,42e,,pp 11371 L2.0ICV
Misc : WG1859418, (Sig #1); ical (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 14 09:25:53 2023
Quant Method : I:\PEST\Pest10\2023\231113ical\pest10_2023_11_13_ugL_ical.m
Quant Title : pest
QLast Update : Tue Nov 14 09:25:23 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest10\2023\231113Q	Method	: pest10_2023_11_13_ugL_ic
Data File	: 10231113i-25.d	Operator	: PEST10:ejl
Date Inj'd	: 11/13/2023 8:47 pm	Instrument	: Pest 10
Sample	: cicvtox,42e,,pp 11371 L2.0	Quant Date	: 11/14/2023 9:25 am

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

Evaluate Relative Error Report Pest 10

Method Path : I:\PEST\Pest10\2023\231113ical\
Method File : pest10_2023_11_13_ugL_ical.m
Title : pest
Last Update : Tue Nov 14 09:25:23 2023

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
29	L1 chlordane-1	L	ug/l	1000.0	1002.477	0.2	10.00	10.082	0.8
30	L1 chlordane-3	L	ug/l	1000.0	1027.190	2.7	10.00	9.729	-2.7
31	L1 chlordane-4	L	ug/l	1000.0	1051.297	5.1	10.00	8.706	-12.9
32	L1 chlordane-5	L	ug/l	1000.0	1016.292	1.6	10.00	10.635	6.3
34	L2 toxaphene-1	L	ug/l	2000.0	2040.080	2.0	20.00	19.759	-1.2
35	L2 toxaphene-2	L	ug/l	2000.0	2006.386	0.3	20.00	19.962	-0.2
36	L2 toxaphene-4	L	ug/l	2000.0	1975.381	-1.2	20.00	20.148	0.7
37	L2 toxaphene-5	L	ug/l	2000.0	2005.931	0.3	20.00	19.964	-0.2
49	T Chlorpyrifos #2	L	ug/l	50.0	52.396	4.8	2.00	1.768	-11.6
60	T Endrin Aldehyde #2	L	ug/l	50.0	49.568	-0.9	1.00	1.005	0.5
62	T Mirex #2	L	ug/l	50.0	50.300	0.6	2.00	1.833	-8.4
65	S Decachlorobiphenyl #2	L	ug/l	50.0	50.841	1.7	2.00	1.848	-7.6
72	L2 toxaphene-1 #2	L	ug/l	2000.0	2038.263	1.9	20.00	19.770	-1.2
73	L2 toxaphene-2 #2	L	ug/l	2000.0	2046.484	2.3	20.00	19.720	-1.4
74	L2 toxaphene-4 #2	L	ug/l	2000.0	2036.015	1.8	20.00	19.783	-1.1
75	L2 toxaphene-5 #2	L	ug/l	2000.0	2031.507	1.6	20.00	19.810	-1.0

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
29	L1 chlordane-1	Linear	0.999937	0.000000	0.0399603	0.00196285
30	L1 chlordane-3	Linear	0.999664	0.000000	0.0691856	0.00233143
31	L1 chlordane-4	Linear	0.999120	0.000000	0.0439871	0.00615803
32	L1 chlordane-5	Linear	0.999818	0.000000	0.162305	0.00333987
34	L2 toxaphene-1	Linear	0.999836	0.000000	0.0457334	-0.00331137
35	L2 toxaphene-2	Linear	0.999996	0.000000	0.0444624	-0.000339434
36	L2 toxaphene-4	Linear	0.999938	0.000000	0.0393909	0.00922495
37	L2 toxaphene-5	Linear	0.999996	0.000000	0.0457518	0.0092013
49	T Chlorpyrifos #2	Linear	0.998751	0.000000	0.694287	0.0320633
60	T Endrin Aldehyde #2	Linear	0.999437	0.000000	1.03204	0.00597476
62	T Mirex #2	Linear	0.999635	0.000000	1.01306	0.0467447
65	S Decachlorobiphenyl #2	Linear	0.999249	0.000000	1.0168	0.0451278
72	L2 toxaphene-1 #2	Linear	0.999850	0.000000	0.0285275	-0.00640465
73	L2 toxaphene-2 #2	Linear	0.999779	0.000000	0.0413822	0.00230186
74	L2 toxaphene-4 #2	Linear	0.999867	0.000000	0.0508852	0.016761
75	L2 toxaphene-5 #2	Linear	0.999899	0.000000	0.0473254	-0.00577877

Continuing Calibration

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: PEST18	**Calibration Date**	: 12/03/23 09:01		
Lab File ID	: 18231203a-03	**Init. Calib. Date(s)**	: 10/17/23	10/17/23	
Sample No	: WG1859122-1	**Init. Calib. Times**	: 12:14	16:14	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	148	0
2,4,5,6-Tetrachloro-m-xylen	1.039	0.982	-	5.5	20	138	0
Hexachlorobenzene	1.174	1.053	-	10.3	20	138	0
alpha-BHC	1.316	1.305	-	0.8	20	137	0
gamma-BHC (lindane)	1.215	1.172	-	3.5	20	135	0
beta-BHC	50	48.687	-	2.6	20	134	0
delta-BHC	1.244	1.137	-	8.6	20	129	0
Heptachlor	1.195	1.133	-	5.2	20	142	0
Aldrin	1.142	1.066	-	6.7	20	134	0
Alachlor	0.203	0.191	-	5.9	20	141	0
Chlorpyrifos	0.61	0.498	-	18.4	20	126	0
Heptachlor Epoxide	1.116	0.979	-	12.3	20	129	0
gamma-Chlordane (trans)	1.128	0.999	-	11.4	20	144	0
alpha-Chlordane (cis)	1.194	0.988	-	17.3	20	127	0
4,4'-DDE	1.124	0.99	-	11.9	20	126	0
Endosulfan I	1.059	0.919	-	13.2	20	128	0
Dieldrin	50	47.243	-	5.5	20	136	0
Endrin	1.154	0.969	-	16	20	123	0
4,4'-DDD	0.903	0.821	-	9.1	20	130	0
Endosulfan II	1.017	0.872	-	14.3	20	128	0
4,4'-DDT	50	50.021	-	-0	20	161	0
Endrin Aldehyde	50	37.717	-	24.6*	20	108	0
Methoxychlor	0.412	0.505	-	-22.6*	20	166	0
Mirex	0.948	0.75	-	20.9*	20	126	0
Endosulfan Sulfate	0.95	0.83	-	12.6	20	129	0
Endrin Ketone	0.935	0.987	-	-5.6	20	150	0
Decachlorobiphenyl	50	40.489	-	19	20	119	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: PEST18	**Calibration Date**	: 12/03/23 09:01		
Lab File ID	: 18231203a-03	**Init. Calib. Date(s)**	: 10/17/23	10/17/23	
Sample No	: WG1859122-1	**Init. Calib. Times**	: 12:14	16:14	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	119	0
2,4,5,6-Tetrachloro-m-xyl	1.057	1.001	-	5.3	20	111	0
Hexachlorobenzene	1.244	1.107	-	11	20	112	0
alpha-BHC	1.35	1.339	-	0.8	20	111	0
gamma-BHC (lindane)	1.263	1.213	-	4	20	111	0
beta-BHC	50	49.434	-	1.1	20	111	0
delta-BHC	1.271	1.182	-	7	20	106	0
Heptachlor	1.245	1.206	-	3.1	20	116	0
Aldrin	1.183	1.133	-	4.2	20	111	0
Alachlor	0.184	0.185	-	-0.5	20	120	0
Chlorpyrifos	0.647	0.55	-	15	20	106	0
Heptachlor Epoxide	1.169	1.07	-	8.5	20	110	0
gamma-Chlordane (trans)	1.066	1.093	-	-2.5	20	125	0
alpha-Chlordane (cis)	1.208	1.079	-	10.7	20	110	0
4,4'-DDE	1.171	1.09	-	6.9	20	109	0
Endosulfan I	1.099	1.003	-	8.7	20	108	0
Dieldrin	1.119	1.131	-	-1.1	20	119	0
Endrin	1.129	1.062	-	5.9	20	111	0
4,4'-DDD	0.941	0.925	-	1.7	20	118	0
Endosulfan II	1.038	0.971	-	6.5	20	114	0
4,4'-DDT	0.822	1.008	-	-22.6*	20	138	0
Endrin Aldehyde	50	41.607	-	16.8	20	98	0
Methoxychlor	0.462	0.561	-	-21.4*	20	140	0
Mirex	50	52.212	-	-4.4	20	115	0
Endosulfan Sulfate	0.991	0.909	-	8.3	20	117	0
Endrin Ketone	0.975	1.099	-	-12.7	20	133	0
Decachlorobiphenyl	0.992	0.831	-	16.2	20	112	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST18		**Calibration Date**	: 12/03/23 09:13	
Lab File ID	: 18231203a-04		**Init. Calib. Date(s)**	: 10/17/23	10/17/23
Sample No	: WG1859122-2		**Init. Calib. Times**	: 12:14	16:14
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	146	0
chlordane-1	1000	788.038	-	21.2*	20	116	0
chlordane-3	1000	893.899	-	10.6	20	126	0
chlordane-4	1000	918.208	-	8.2	20	136	0
chlordane-5	1000	1013.683	-	-1.4	20	149	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST18		**Calibration Date**	: 12/03/23 09:13	
Lab File ID	: 18231203a-04		**Init. Calib. Date(s)**	: 10/17/23	10/17/23
Sample No	: WG1859122-2		**Init. Calib. Times**	: 12:14	16:14
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	115	0
chlordane-1	1000	913.656	-	8.6	20	106	0
chlordane-3	1000	937.453	-	6.3	20	105	0
chlordane-4	1000	958.538	-	4.1	20	113	0
chlordane-5	1000	920.334	-	8	20	108	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST18		**Calibration Date**	: 12/03/23 09:24	
Lab File ID	: 18231203a-05		**Init. Calib. Date(s)**	: 10/17/23	10/17/23
Sample No	: WG1859122-3		**Init. Calib. Times**	: 12:14	16:14
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	155	0
toxaphene-1	2000	1958.375	-	2.1	20	145	0
toxaphene-2	2000	1928.119	-	3.6	20	146	0
toxaphene-3	2000	1908.961	-	4.6	20	145	0
toxaphene-4	2000	2010.733	-	-0.5	20	155	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST18		**Calibration Date**	: 12/03/23 09:24	
Lab File ID	: 18231203a-05		**Init. Calib. Date(s)**	: 10/17/23	10/17/23
Sample No	: WG1859122-3		**Init. Calib. Times**	: 12:14	16:14
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	125	0
toxaphene-1	2000	2141.885	-	-7.1	20	131	0
toxaphene-2	2000	2189.322	-	-9.5	20	135	0
toxaphene-3	2000	2267.49	-	-13.4	20	140	0
toxaphene-4	2000	2396.358	-	-19.8	20	150	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST10	**Calibration Date**	: 12/04/23 10:10
Lab File ID	: 10231204a-04	**Init. Calib. Date(s)**	: 11/13/23 11/13/23
Sample No	: WG1859447-2	**Init. Calib. Times**	: 16:45 20:36
Channel	: A		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	15	104	0
chlordane-1	1000	922.122	-	7.8	15	98	0
chlordane-3	1000	807.616	-	19.2*	15	84	0
chlordane-4	1000	1000.158	-	-0	15	101	0
chlordane-5	1000	988.205	-	1.2	15	104	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST10	**Calibration Date**	: 12/04/23 10:10
Lab File ID	: 10231204a-04	**Init. Calib. Date(s)**	: 11/13/23 11/13/23
Sample No	: WG1859447-2	**Init. Calib. Times**	: 16:45 20:36
Channel	: B		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	15	111	0
chlordane-1	0.046	0.041	-	10.9	15	104	0
chlordane-3	0.053	0.049	-	7.5	15	111	0
chlordane-4	0.18	0.171	-	5	15	109	0
chlordane-5	0.146	0.13	-	11	15	104	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST10		**Calibration Date**	: 12/04/23 10:21	
Lab File ID	: 10231204a-05		**Init. Calib. Date(s)**	: 11/13/23	11/13/23
Sample No	: WG1859447-3		**Init. Calib. Times**	: 16:45	20:36
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	15	101	0
toxaphene-1	2000	1859.674	-	7	15	92	0
toxaphene-2	2000	1815.581	-	9.2	15	91	0
toxaphene-4	2000	1783.541	-	10.8	15	91	0
toxaphene-5	2000	1812.901	-	9.4	15	91	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST10		**Calibration Date**	: 12/04/23 10:21	
Lab File ID	: 10231204a-05		**Init. Calib. Date(s)**	: 11/13/23	11/13/23
Sample No	: WG1859447-3		**Init. Calib. Times**	: 16:45	20:36
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	15	104	0
toxaphene-1	2000	1880.581	-	6	15	97	0
toxaphene-2	2000	1865.854	-	6.7	15	96	0
toxaphene-4	2000	1829.782	-	8.5	15	95	0
toxaphene-5	2000	1834.278	-	8.3	15	95	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST18		**Calibration Date**	: 12/04/23 12:39	
Lab File ID	: 18231204b-03		**Init. Calib. Date(s)**	: 10/17/23	10/17/23
Sample No	: WG1859540-1		**Init. Calib. Times**	: 12:14	16:14
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	143	0
2,4,5,6-Tetrachloro-m-xylen	1.039	0.998	-	3.9	20	136	0
Hexachlorobenzene	1.174	1.132	-	3.6	20	143	0
alpha-BHC	1.316	1.337	-	-1.6	20	136	0
gamma-BHC (lindane)	1.215	1.218	-	-0.2	20	136	0
beta-BHC	50	50.373	-	-0.7	20	135	0
delta-BHC	1.244	1.187	-	4.6	20	130	0
Heptachlor	1.195	1.206	-	-0.9	20	147	0
Aldrin	1.142	1.175	-	-2.9	20	143	0
Alachlor	0.203	0.171	-	15.8	20	122	0
Chlorpyrifos	0.61	0.499	-	18.2	20	123	0
Heptachlor Epoxide	1.116	1.065	-	4.6	20	136	0
gamma-Chlordane (trans)	1.128	1.107	-	1.9	20	155	0
alpha-Chlordane (cis)	1.194	1.084	-	9.2	20	135	0
4,4'-DDE	1.124	1.099	-	2.2	20	136	0
Endosulfan I	1.059	0.998	-	5.8	20	135	0
Dieldrin	50	52.433	-	-4.9	20	146	0
Endrin	1.154	1.079	-	6.5	20	133	0
4,4'-DDD	0.903	0.917	-	-1.6	20	141	0
Endosulfan II	1.017	0.958	-	5.8	20	136	0
4,4'-DDT	50	54.79	-	-9.6	20	171	0
Endrin Aldehyde	50	41.922	-	16.2	20	117	0
Methoxychlor	0.412	0.543	-	-31.8*	20	173	0
Mirex	0.948	0.822	-	13.3	20	134	0
Endosulfan Sulfate	0.95	0.888	-	6.5	20	133	0
Endrin Ketone	0.935	1.098	-	-17.4	20	161	0
Decachlorobiphenyl	50	45.639	-	8.7	20	130	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST18		**Calibration Date**	: 12/04/23 12:39	
Lab File ID	: 18231204b-03		**Init. Calib. Date(s)**	: 10/17/23	10/17/23
Sample No	: WG1859540-1		**Init. Calib. Times**	: 12:14	16:14
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	20	121	0
2,4,5,6-Tetrachloro-m-xyl	1.057	1.009	-	4.5	20	114	0
Hexachlorobenzene	1.244	1.117	-	10.2	20	115	0
alpha-BHC	1.35	1.346	-	0.3	20	114	0
gamma-BHC (lindane)	1.263	1.22	-	3.4	20	114	0
beta-BHC	50	49.269	-	1.5	20	113	0
delta-BHC	1.271	1.188	-	6.5	20	109	0
Heptachlor	1.245	1.226	-	1.5	20	120	0
Aldrin	1.183	1.153	-	2.5	20	115	0
Alachlor	0.184	0.18	-	2.2	20	119	0
Chlorpyrifos	0.647	0.56	-	13.4	20	110	0
Heptachlor Epoxide	1.169	1.077	-	7.9	20	113	0
gamma-Chlordane (trans)	1.066	1.11	-	-4.1	20	129	0
alpha-Chlordane (cis)	1.208	1.096	-	9.3	20	114	0
4,4'-DDE	1.171	1.114	-	4.9	20	113	0
Endosulfan I	1.099	1.017	-	7.5	20	112	0
Dieldrin	1.119	1.154	-	-3.1	20	124	0
Endrin	1.129	1.097	-	2.8	20	117	0
4,4'-DDD	0.941	0.958	-	-1.8	20	124	0
Endosulfan II	1.038	0.995	-	4.1	20	119	0
4,4'-DDT	0.822	1.059	-	-28.8*	20	148	0
Endrin Aldehyde	50	43.683	-	12.6	20	105	0
Methoxychlor	0.462	0.589	-	-27.5*	20	150	0
Mirex	50	54.876	-	-9.8	20	123	0
Endosulfan Sulfate	0.991	0.939	-	5.2	20	123	0
Endrin Ketone	0.975	1.141	-	-17	20	141	0
Decachlorobiphenyl	0.992	0.884	-	10.9	20	122	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST18		**Calibration Date**	: 12/04/23 12:51	
Lab File ID	: 18231204b-04		**Init. Calib. Date(s)**	: 10/17/23	10/17/23
Sample No	: WG1859540-2		**Init. Calib. Times**	: 12:14	16:14
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	142	0
chlordane-1	1000	823.045	-	17.7	20	118	0
chlordane-3	1000	954.299	-	4.6	20	132	0
chlordane-4	1000	978.973	-	2.1	20	141	0
chlordane-5	1000	1089.598	-	-9	20	157	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST18		**Calibration Date**	: 12/04/23 12:51	
Lab File ID	: 18231204b-04		**Init. Calib. Date(s)**	: 10/17/23	10/17/23
Sample No	: WG1859540-2		**Init. Calib. Times**	: 12:14	16:14
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	1	1	-	0	20	118	0
chlordane-1	1000	891.459	-	10.9	20	106	0
chlordane-3	1000	976.873	-	2.3	20	112	0
chlordane-4	1000	964.288	-	3.6	20	116	0
chlordane-5	1000	938.826	-	6.1	20	113	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST18		**Calibration Date**	: 12/04/23 13:02	
Lab File ID	: 18231204b-05		**Init. Calib. Date(s)**	: 10/17/23	10/17/23
Sample No	: WG1859540-3		**Init. Calib. Times**	: 12:14	16:14
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	135	0
toxaphene-1	2000	2291.826	-	-14.6	20	149	0
toxaphene-2	2000	2207.61	-	-10.4	20	147	0
toxaphene-3	2000	2162.659	-	-8.1	20	144	0
toxaphene-4	2000	2246.711	-	-12.3	20	151	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience		**Lab Number**	: L2370783	
Project Name	: HUNTINGTON READY MIX		**Project Number**	: 20116	
Instrument ID	: PEST18		**Calibration Date**	: 12/04/23 13:02	
Lab File ID	: 18231204b-05		**Init. Calib. Date(s)**	: 10/17/23	10/17/23
Sample No	: WG1859540-3		**Init. Calib. Times**	: 12:14	16:14
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	1	1	-	0	20	116	0
toxaphene-1	2000	2183.447	-	-9.2	20	124	0
toxaphene-2	2000	2234.093	-	-11.7	20	128	0
toxaphene-3	2000	2306.078	-	-15.3	20	132	0
toxaphene-4	2000	2474.547	-	-23.7*	20	144	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: PEST10	**Calibration Date**	: 12/04/23 15:24		
Lab File ID	: 10231204a-27	**Init. Calib. Date(s)**	: 11/13/23	11/13/23	
Sample No	: WG1859447-4	**Init. Calib. Times**	: 16:45	20:36	
Channel	: A				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	15	112	0
2,4,5,6-Tetrachloro-m-xylen	1.045	1.122	-	-7.4	15	131	0
Hexachlorobenzene	1.118	1.191	-	-6.5	15	129	0
alpha-BHC	1.422	1.66	-	-16.7*	15	129	0
gamma-BHC (lindane)	1.339	1.509	-	-12.7	15	128	0
beta-BHC	0.619	0.66	-	-6.6	15	131	0
delta-BHC	1.369	1.537	-	-12.3	15	127	0
Heptachlor	1.308	1.514	-	-15.7*	15	134	0
Aldrin	1.199	1.47	-	-22.6*	15	140	0
Alachlor	0.283	0.365	-	-29*	15	154	0
Chlorpyrifos	0.635	0.696	-	-9.6	15	137	0
Heptachlor Epoxide	1.183	1.374	-	-16.1*	15	136	0
gamma-Chlordane (trans)	1.079	1.438	-	-33.3*	15	159	0
alpha-Chlordane (cis)	1.256	1.42	-	-13.1	15	138	0
4,4'-DDE	1.16	1.441	-	-24.2*	15	142	0
Endosulfan I	1.139	1.322	-	-16.1*	15	137	0
Dieldrin	1.162	1.498	-	-28.9*	15	149	0
Endrin	1.21	1.425	-	-17.8*	15	135	0
4,4'-DDD	0.955	1.249	-	-30.8*	15	150	0
Endosulfan II	1.102	1.314	-	-19.2*	15	141	0
4,4'-DDT	1.095	1.291	-	-17.9*	15	137	0
Endrin Aldehyde	0.904	0.977	-	-8.1	15	125	0
Methoxychlor	0.629	0.69	-	-9.7	15	133	0
Mirex	0.996	1.093	-	-9.7	15	139	0
Endosulfan Sulfate	1.079	1.271	-	-17.8*	15	141	0
Endrin Ketone	1.23	1.476	-	-20*	15	140	0
Decachlorobiphenyl	0.984	1.046	-	-6.3	15	130	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783		
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116		
Instrument ID	: PEST10	**Calibration Date**	: 12/04/23 15:24		
Lab File ID	: 10231204a-27	**Init. Calib. Date(s)**	: 11/13/23	11/13/23	
Sample No	: WG1859447-4	**Init. Calib. Times**	: 16:45	20:36	
Channel	: B				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	1	1	-	0	15	115	0
2,4,5,6-Tetrachloro-m-xyl	1.041	1.096	-	-5.3	15	128	0
Hexachlorobenzene	1.214	1.243	-	-2.4	15	129	0
alpha-BHC	1.522	1.714	-	-12.6	15	130	0
gamma-BHC (lindane)	1.451	1.567	-	-8	15	128	0
beta-BHC	0.686	0.707	-	-3.1	15	130	0
delta-BHC	1.463	1.59	-	-8.7	15	127	0
Heptachlor	1.525	1.664	-	-9.1	15	132	0
Aldrin	1.405	1.627	-	-15.8*	15	139	0
Alachlor	0.209	0.261	-	-24.9*	15	150	0
Chlorpyrifos	50	61.025	-	-22*	15	135	0
Heptachlor Epoxide	1.45	1.556	-	-7.3	15	134	0
gamma-Chlordane (trans)	1.283	1.636	-	-27.5*	15	158	0
alpha-Chlordane (cis)	1.451	1.598	-	-10.1	15	138	0
4,4'-DDE	1.351	1.602	-	-18.6*	15	140	0
Endosulfan I	1.364	1.491	-	-9.3	15	135	0
Dieldrin	1.362	1.664	-	-22.2*	15	147	0
Endrin	1.415	1.584	-	-11.9	15	135	0
4,4'-DDD	1.113	1.386	-	-24.5*	15	149	0
Endosulfan II	1.325	1.459	-	-10.1	15	137	0
4,4'-DDT	1.284	1.426	-	-11.1	15	134	0
Endrin Aldehyde	50	51.958	-	-3.9	15	122	0
Methoxychlor	0.744	0.74	-	0.5	15	128	0
Mirex	50	56.83	-	-13.7	15	131	0
Endosulfan Sulfate	1.292	1.416	-	-9.6	15	139	0
Endrin Ketone	1.412	1.524	-	-7.9	15	134	0
Decachlorobiphenyl	50	37.395	-	25.2*	15	86	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 3 Dec 2023   9:01 am
Operator : PEST18:mmg
Sample   : wg1859122-1,42,, pest11375 (Sig #1); pest11375 (Sig #2)
Misc   : wg1859122,,ical20463
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:31:18 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:31:03 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	148	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.982	5.5	138	0.00
3		Hexachlorobenzene		1.174	1.053	10.3	138	0.00
4		alpha-BHC		1.316	1.305	0.8	137	0.00
5		gamma-BHC (lindane)		1.215	1.172	3.5	135	0.00
6		beta-BHC	*	50.000	48.687	2.6	134	0.00
7		delta-BHC		1.244	1.137	8.6	129	0.00
8		Heptachlor		1.195	1.133	5.2	142	0.00
9		Aldrin		1.142	1.066	6.7	134	0.00
10		Alachlor		0.203	0.191	5.9	141	0.00
11		Chlorpyrifos		0.610	0.498	18.4	126	0.00
12		Heptachlor Epoxide		1.116	0.979	12.3	129	0.00
13		gamma-Chlordane (trans)		1.128	0.999	11.4	144	0.00
14		alpha-Chlordane (cis)		1.194	0.988	17.3	127	0.00
15		4,4'-DDE		1.124	0.990	11.9	126	0.00
16		Endosulfan I		1.059	0.919	13.2	128	0.00
17		Dieldrin	*	50.000	47.243	5.5	136	0.00
18		Endrin		1.154	0.969	16.0	123	0.00
19		4,4'-DDD		0.903	0.821	9.1	130	0.00
20		Endosulfan II		1.017	0.872	14.3	128	0.00
21		4,4'-DDT	*	50.000	50.021	-0.0	161	0.00
22		Endrin Aldehyde	*	50.000	37.717	24.6#	108	0.00
23		Methoxychlor		0.412	0.505	-22.6#	166#	0.00
24		Mirex		0.948	0.750	20.9#	126	0.00
25		Endosulfan Sulfate		0.950	0.830	12.6	129	0.00
26		Endrin Ketone		0.935	0.987	-5.6	150	0.00
27	s	Decachlorobiphenyl	*	50.000	40.489	19.0	119	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 3 Dec 2023   9:01 am
Operator : PEST18:mmg
Sample   : wg1859122-1,42,, pest11375 (Sig #1); pest11375 (Sig #2)
Misc   : wg1859122,,ical20463
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:31:18 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:31:03 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	119	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.057	1.001	5.3	111	0.00
3		Hexachlorobenzene		1.244	1.107	11.0	112	0.00
4		alpha-BHC		1.350	1.339	0.8	111	0.00
5		gamma-BHC (lindane)		1.263	1.213	4.0	111	0.00
6		beta-BHC	*	50.000	49.434	1.1	111	0.00
7		delta-BHC		1.271	1.182	7.0	106	0.00
8		Heptachlor		1.245	1.206	3.1	116	0.00
9		Aldrin		1.183	1.133	4.2	111	0.00
10		Alachlor		0.184	0.185	-0.5	120	0.00
11		Chlorpyrifos		0.647	0.550	15.0	106	0.00
12		Heptachlor Epoxide		1.169	1.070	8.5	110	0.00
13		gamma-Chlordane (trans)		1.066	1.093	-2.5	125	0.00
14		alpha-Chlordane (cis)		1.208	1.079	10.7	110	0.00
15		4,4'-DDE		1.171	1.090	6.9	109	0.00
16		Endosulfan I		1.099	1.003	8.7	108	0.00
17		Dieldrin		1.119	1.131	-1.1	119	0.00
18		Endrin		1.129	1.062	5.9	111	0.00
19		4,4'-DDD		0.941	0.925	1.7	118	0.00
20		Endosulfan II		1.038	0.971	6.5	114	0.00
21		4,4'-DDT		0.822	1.008	-22.6#	138	0.00
22		Endrin Aldehyde	*	50.000	41.607	16.8	98	0.00
23		Methoxychlor		0.462	0.561	-21.4#	140	0.00
24		Mirex	*	50.000	52.212	-4.4	115	0.00
25		Endosulfan Sulfate		0.991	0.909	8.3	117	0.00
26		Endrin Ketone		0.975	1.099	-12.7	133	0.00
27	s	Decachlorobiphenyl		0.992	0.831	16.2	112	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 3 Dec 2023   9:01 am
Operator : PEST18:mmg
Sample   : wg1859122-1,42,, pest11375 (Sig #1); pest11375 (Sig #2)
Misc   : wg1859122,,ical20463
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:31:18 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:31:03 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.75#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.13#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.50#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.07#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.20#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.75#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.11#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.23#
36	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-5.46#
37	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.84#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.80#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.35#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.96#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.64#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.82#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.80#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.69#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.78#
36	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-6.02#
37	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-6.44#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 9:01 am
Operator : PEST18:mmg
Sample : wg1859122-1,42,, pest11375 (Sig #1); pest11375 (Sig #2)
Misc : wg1859122,,ical20463
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:31:18 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:31:03 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.750	1.797	123.0E6	86667328	25.000M2	25.000M2
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.185	2.350	241.4E6	173.4E6	47.223M2	47.342M2
	Spiked Amount 50.000	Range 30 - 150		Recovery =		94.45%	94.68%
27) s	Decachlorobi	6.982	7.551	196.1E6	144.0E6	40.489M2	41.874M2
	Spiked Amount 50.000	Range 30 - 150		Recovery =		80.98%	83.75%
	Target Compounds						
3)	Hexachlorobe	2.428	2.690	259.0E6	191.9E6	44.837M2	44.489M2
4)	alpha-BHC	2.541	2.794	320.9E6	232.1E6	49.598M2	49.592M4
5)	gamma-BHC (l	2.762	3.088	288.2E6	210.3E6	48.223M2	48.017M2
6)	beta-BHC	2.828	3.161	132.2E6	97912639	48.687M2	49.434M2
7)	delta-BHC	2.963	3.430	279.7E6	204.8E6	45.719M2	46.475M2
8)	Heptachlor	3.131	3.487	278.6E6	209.0E6	47.395M2	48.407M2
9)	Aldrin	3.384	3.806	262.0E6	196.4E6	46.653M2	47.903M2
10)	Alachlor	3.521	3.704	46987897	32063855	46.979M2	50.330M2
11)	Chlorpyrifos	3.617	4.058	122.4E6	95308361	40.772M2	42.480M2

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 9:01 am
Operator : PEST18:mmg
Sample : wg1859122-1,42,, pest11375 (Sig #1); pest11375 (Sig #2)
Misc : wg1859122,,ical20463
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:31:18 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:31:03 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlor E	3.948	4.423	240.8E6	185.5E6	43.869M2	45.777M2
13)		gamma-Chlord	4.076	4.643	245.7E6	189.5E6	44.288M2	51.271M2
14)		alpha-Chlord	4.213	4.818	243.0E6	187.0E6	41.390M2	44.645M2
15)		4,4'-DDE	4.318	5.033	243.5E6	189.0E6	44.035M2	46.557M2
16)		Endosulfan I	4.349	4.879	226.1E6	173.9E6	43.385M2	45.659M2
17)		Dieldrin	4.614	5.187	253.0E6	196.0E6	47.243M2	50.530M2
18)		Endrin	4.871	5.496	238.4E6	184.1E6	41.998M2	47.051M2
19)		4,4'-DDD	4.992	5.633	202.0E6	160.3E6	45.482M2	49.155M2
20)		Endosulfan I	5.118	5.704	214.5E6	168.3E6	42.858M2	46.743M2
21)		4,4'-DDT	5.289	5.919	218.9E6	174.8E6	50.021M2	61.370M2
22)		Endrin Aldeh	5.542	6.010	153.7E6	121.4E6	37.717M2	41.607M2
23)		Methoxychlor	5.788	6.501	124.2E6	97196206	61.253M2	60.664M2
24)		Mirex	5.837	6.626	184.4E6	138.7E6	39.525M2	52.212M4
25)		Endosulfan S	5.939	6.246	204.2E6	157.6E6	43.700M2	45.857M2
26)		Endrin Keton	6.168	6.663	242.8E6	190.4E6	52.784M2	56.315M2
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 9:01 am
Operator : PEST18:mmg
Sample : wg1859122-1,42,, pest11375 (Sig #1); pest11375 (Sig #2)
Misc : wg1859122,,ical20463
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:31:18 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:31:03 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

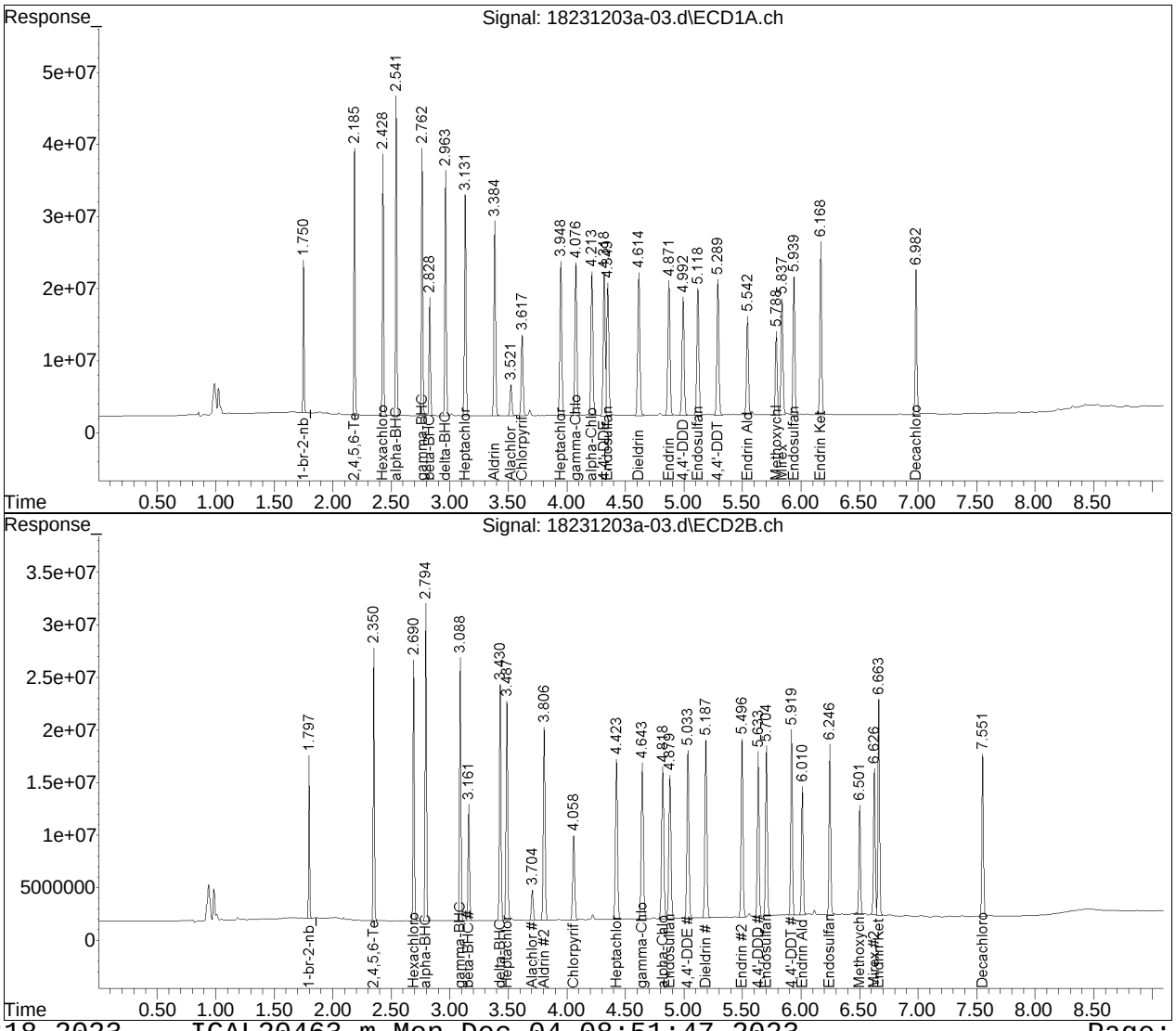
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 9:01 am
Operator : PEST18:mmg
Sample : wg1859122-1,42,, pest11375 (Sig #1); pest11375 (Sig #2)
Misc : wg1859122,,ical20463
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:31:18 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:31:03 2023
Response via : Initial Calibration
Integrator: ChemStation

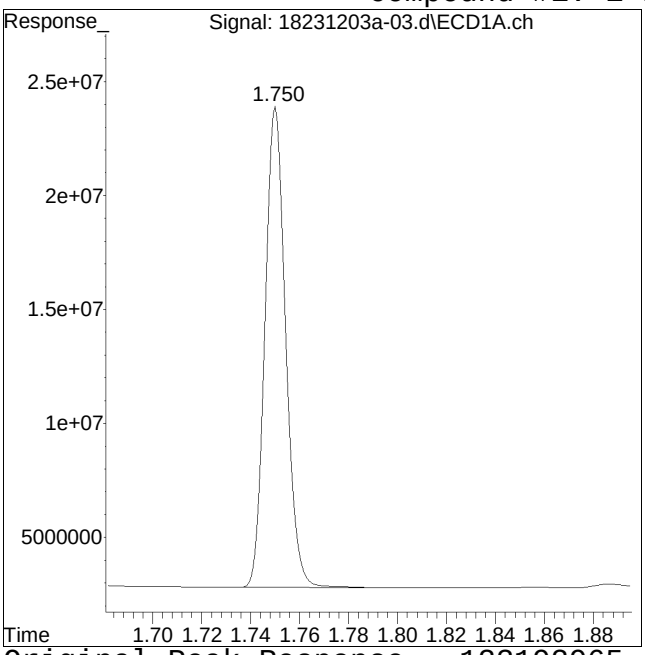
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

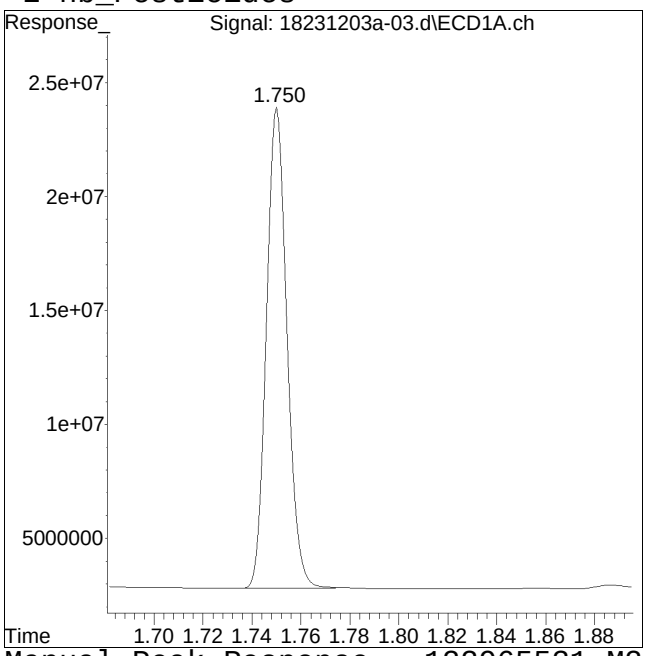


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #1: 1-br-2-nb_Pesticides



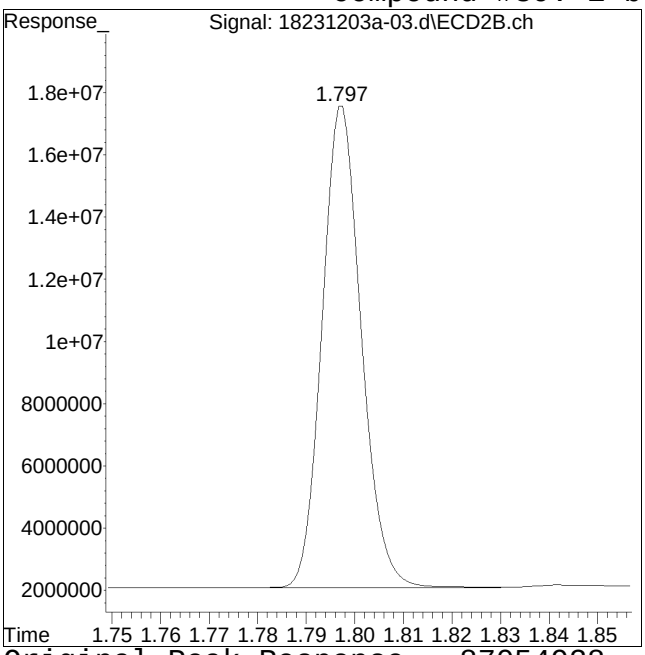


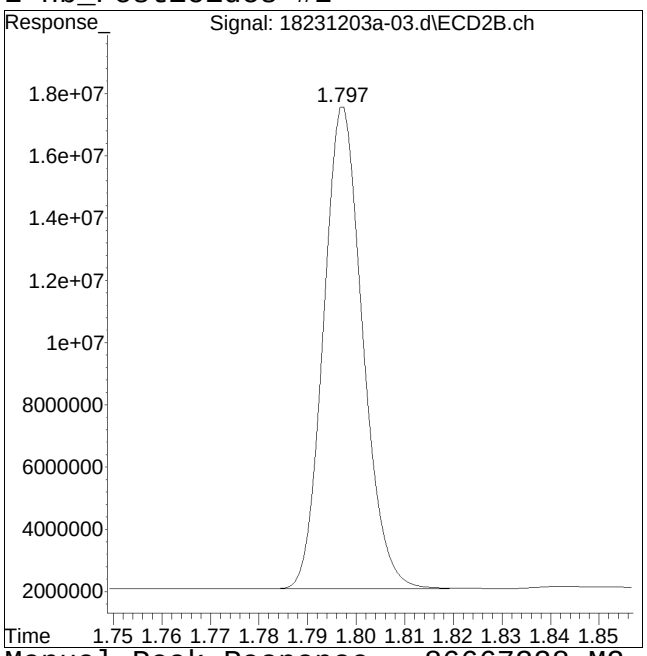
Original Peak Response = 123192965 Manual Peak Response = 122965531 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #39: 1-br-2-nb_Pesticides #2



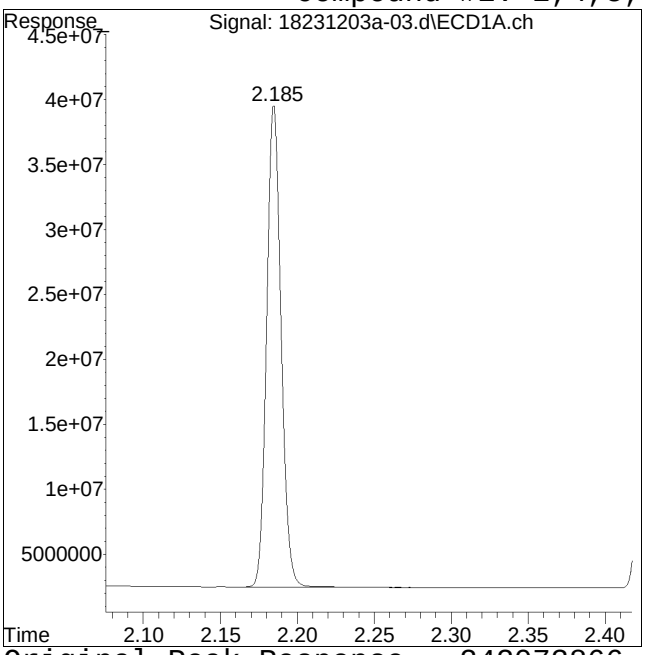


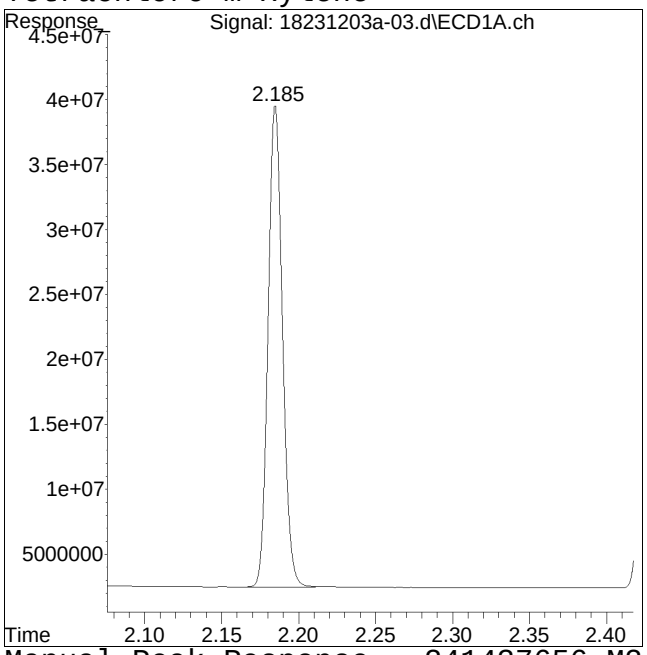
Original Peak Response = 87054938 Manual Peak Response = 86667328 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



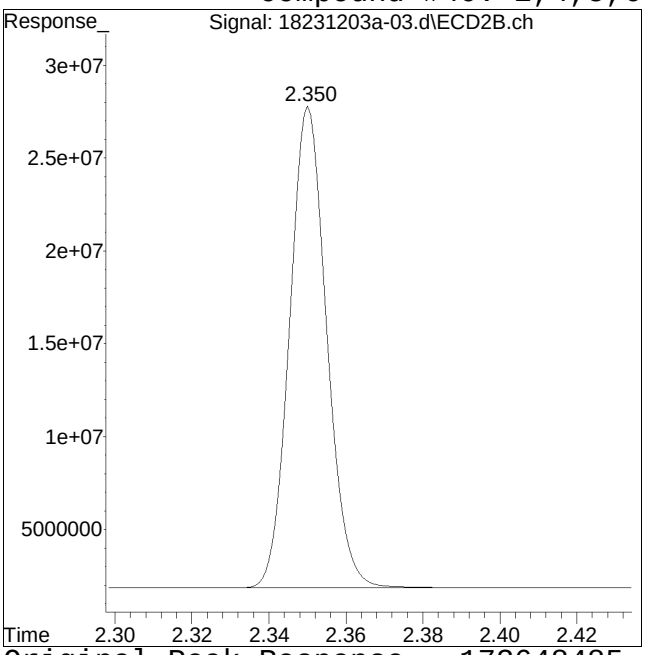


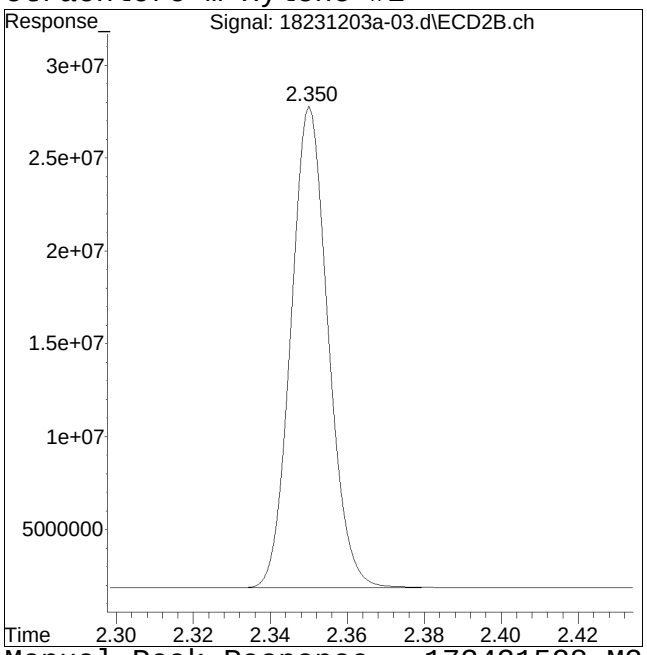
Original Peak Response = 242073866 Manual Peak Response = 241437656 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



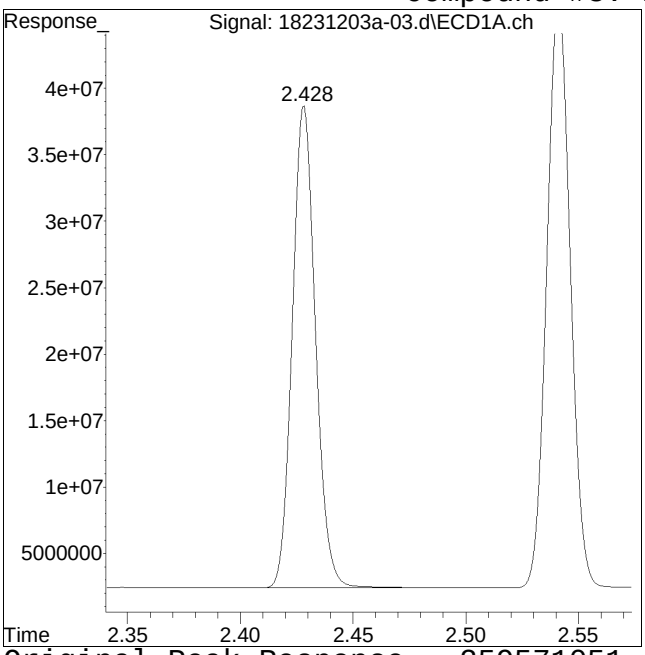


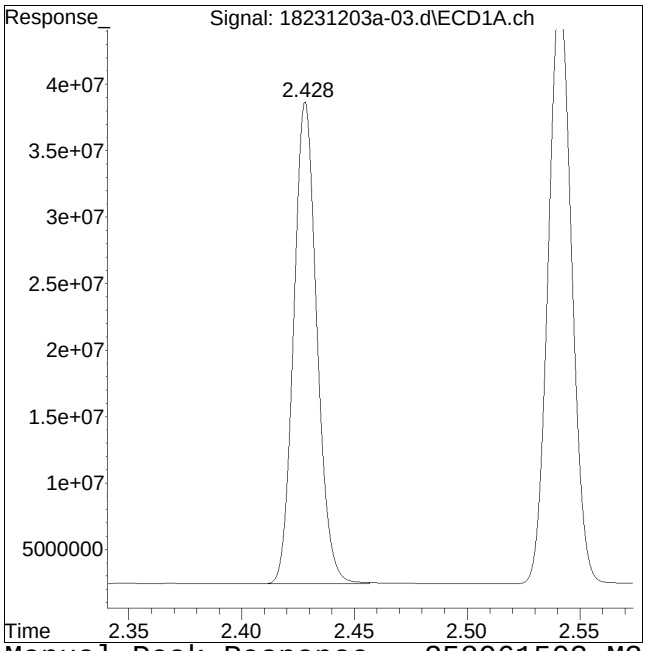
Original Peak Response = 173648485 Manual Peak Response = 173431528 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #3: Hexachlorobenzene



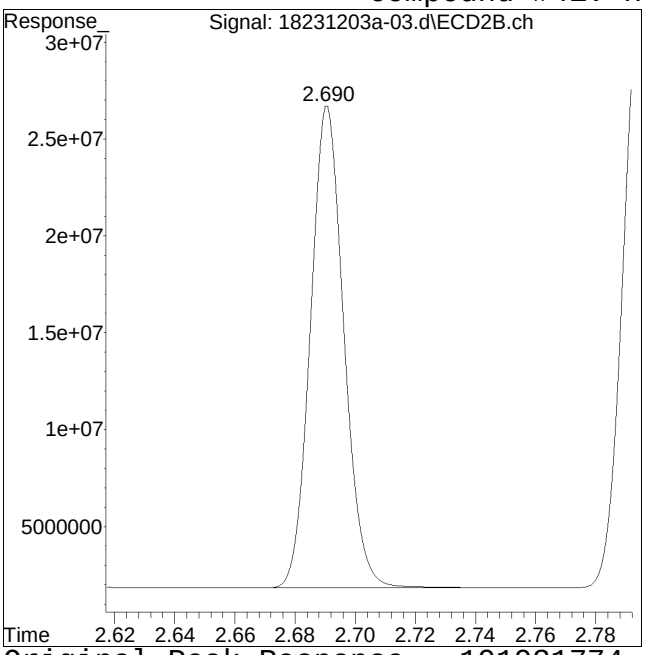


Original Peak Response = 259571051 Manual Peak Response = 258961503 M2
M2 = Peak not found by automatic integration algorithm.

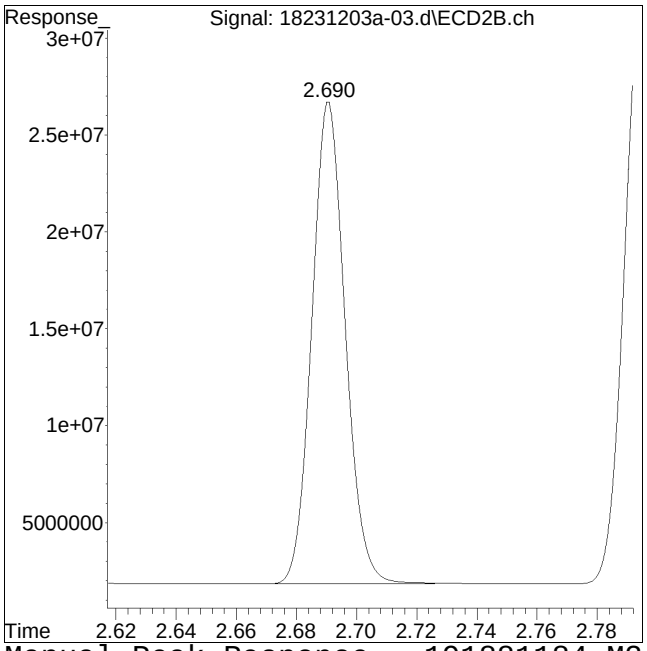
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #41: Hexachlorobenzene #2



Original Peak Response = 191931774



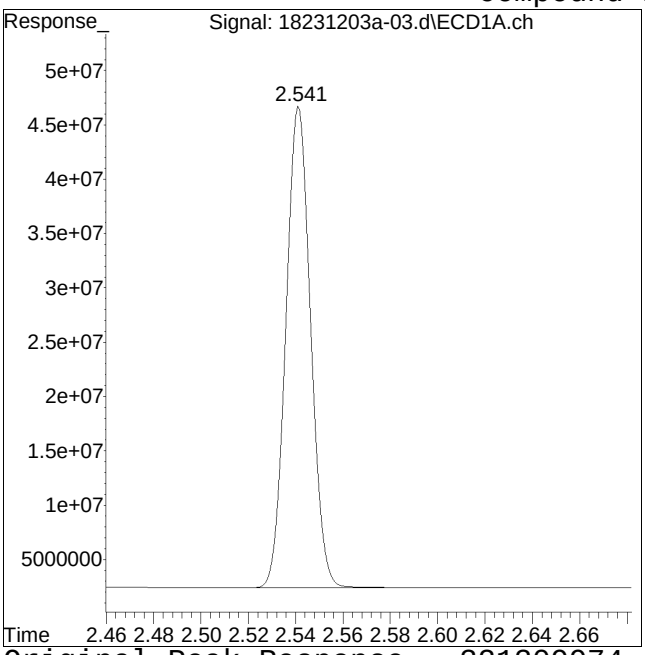
Manual Peak Response = 191881184 M2

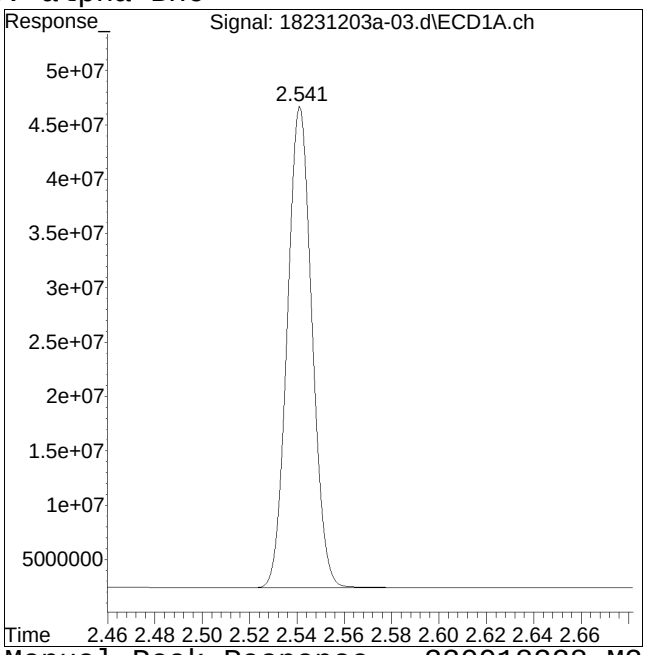
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #4: alpha-BHC



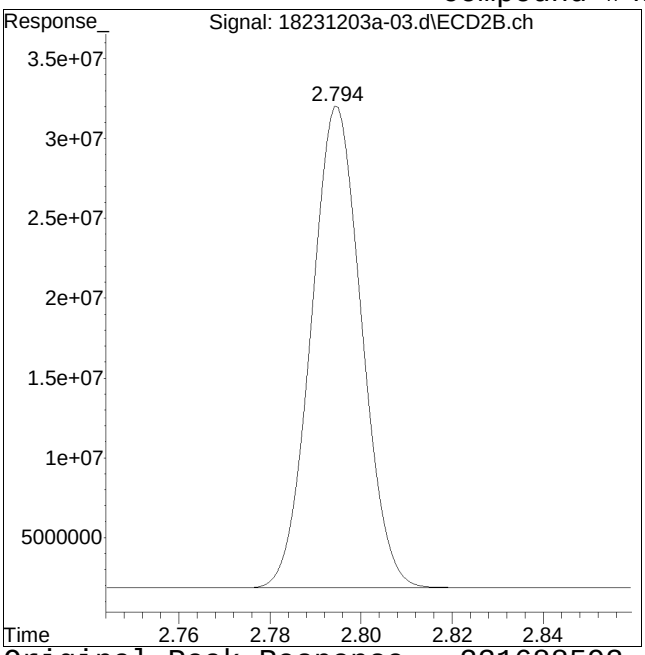


Original Peak Response = 321309974 Manual Peak Response = 320918328 M2
M2 = Peak not found by automatic integration algorithm.

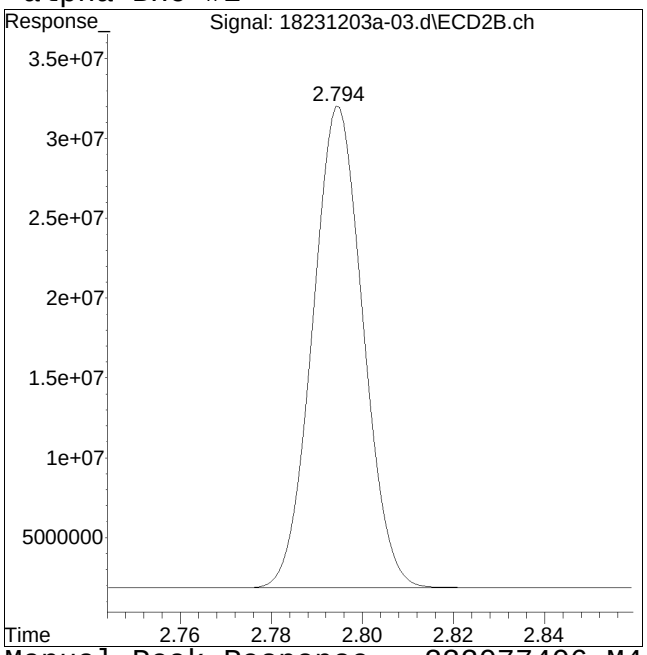
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #42: alpha-BHC #2



Original Peak Response = 231688593



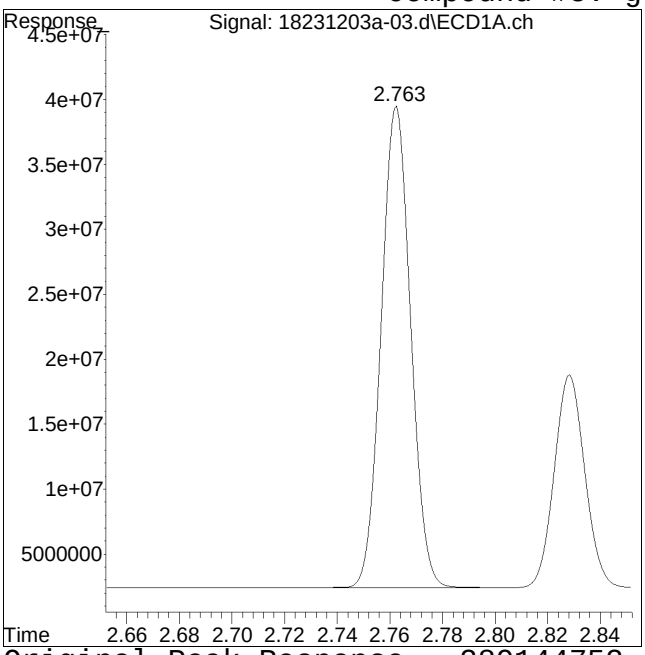
Manual Peak Response = 232077406 M4

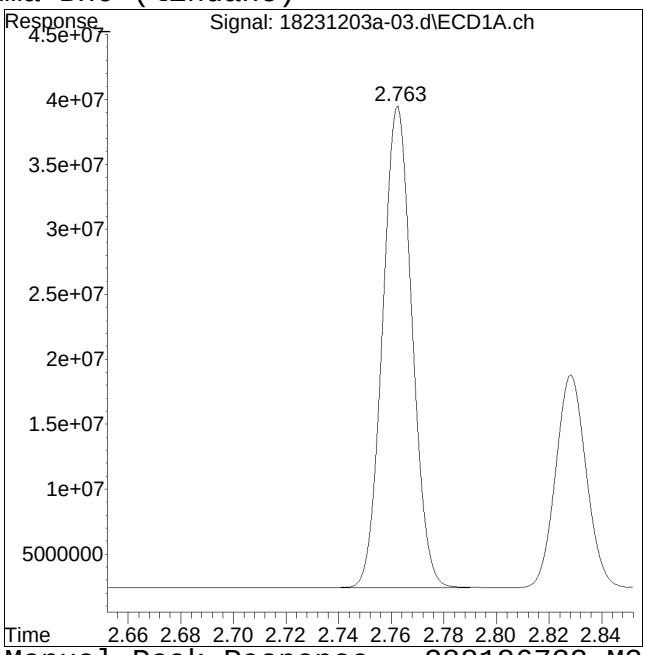
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #5: gamma-BHC (lindane)



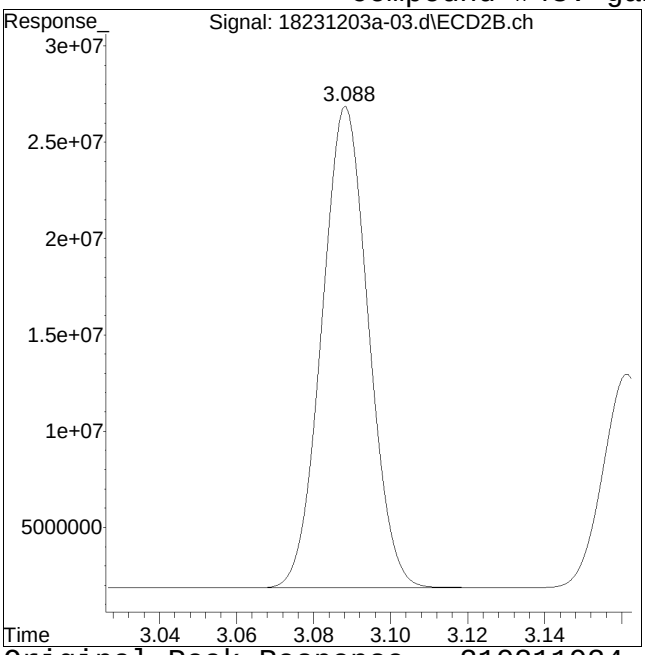


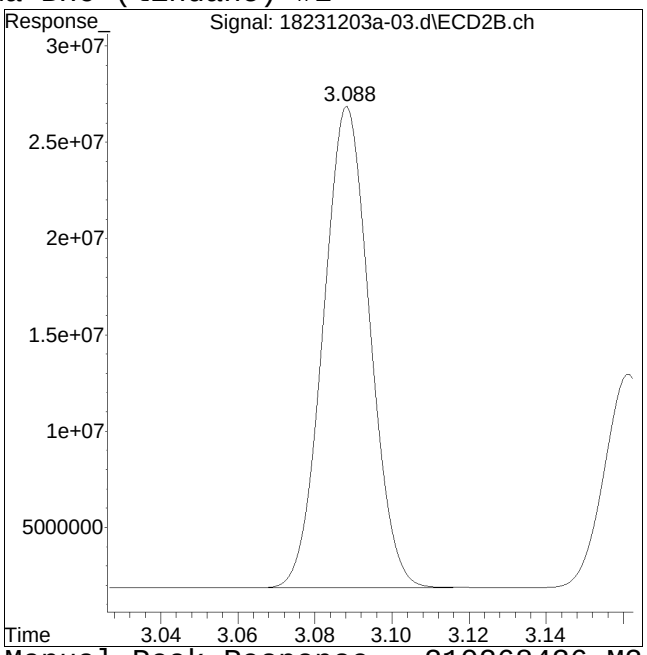
Original Peak Response = 289144752 Manual Peak Response = 288186732 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #43: gamma-BHC (lindane) #2



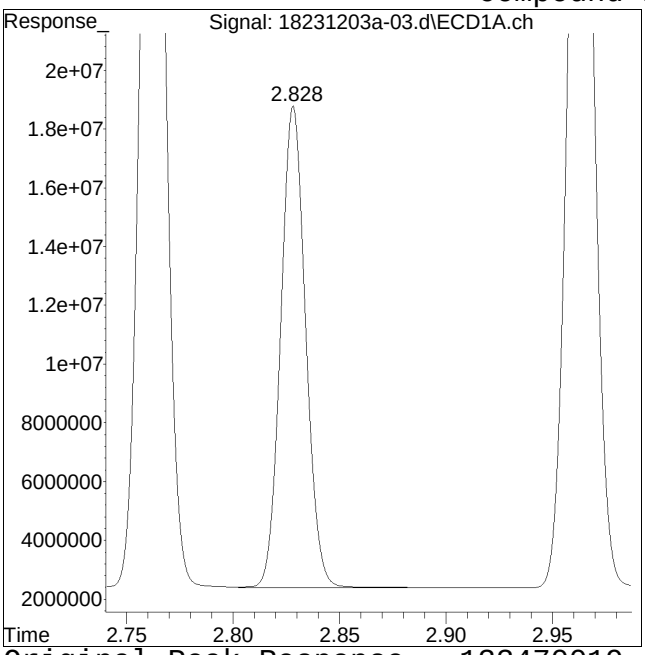


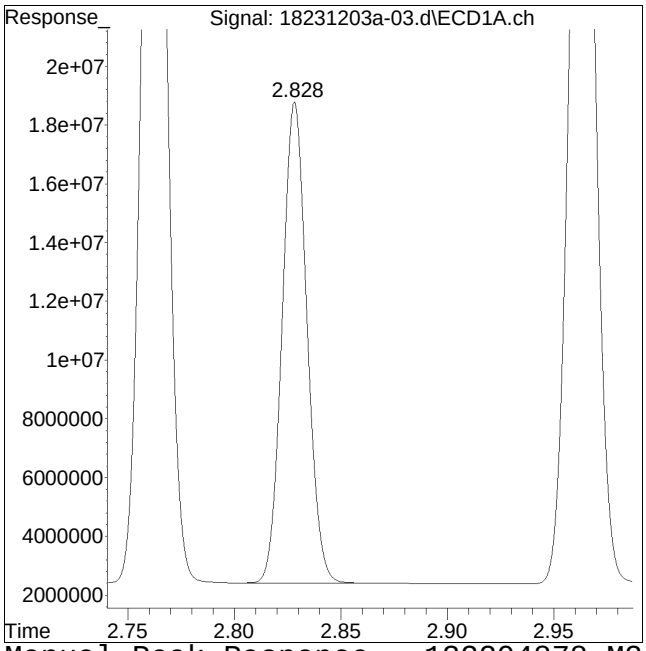
Original Peak Response = 210211924 Manual Peak Response = 210268436 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #6: beta-BHC



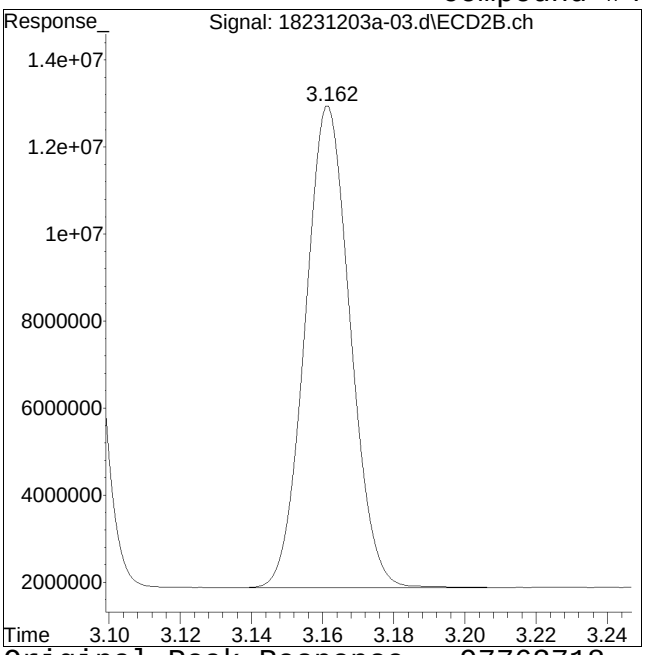


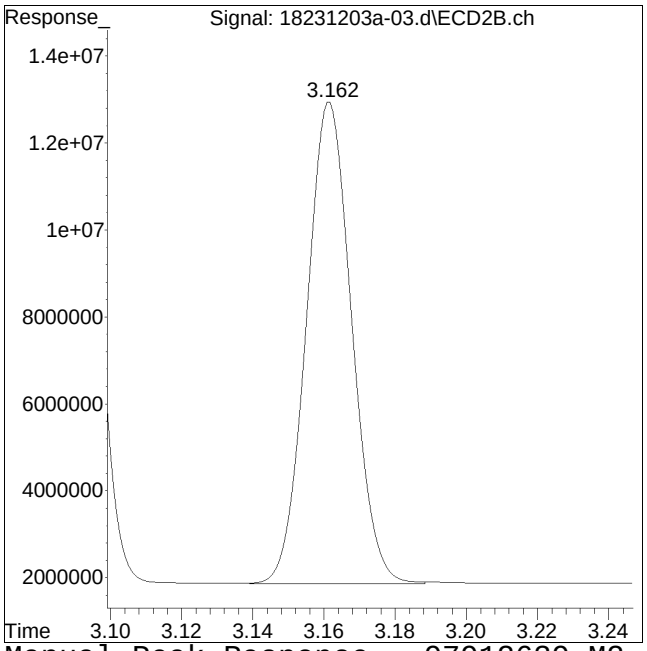
Original Peak Response = 133470019 Manual Peak Response = 132204878 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #44: beta-BHC #2



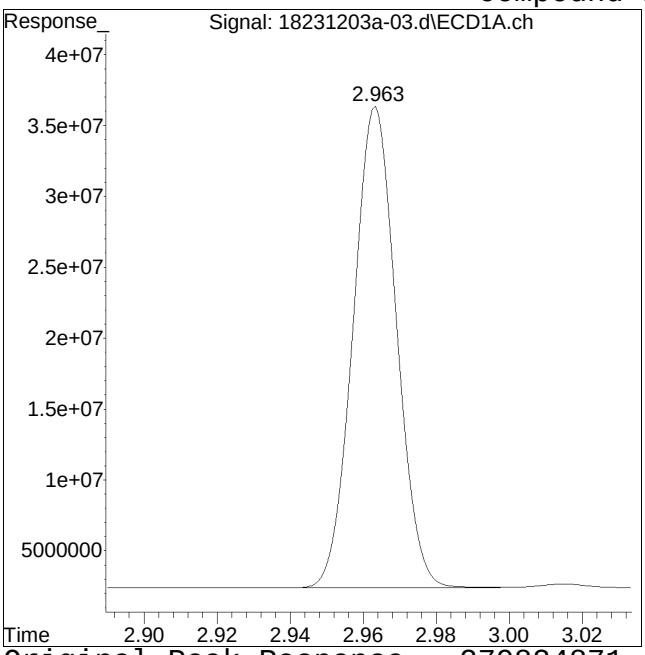


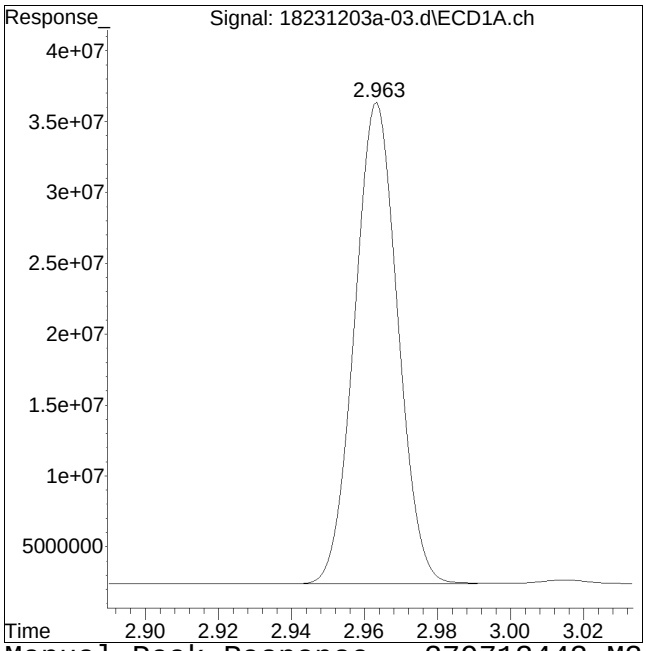
Original Peak Response = 97763718 Manual Peak Response = 97912639 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #7: delta-BHC



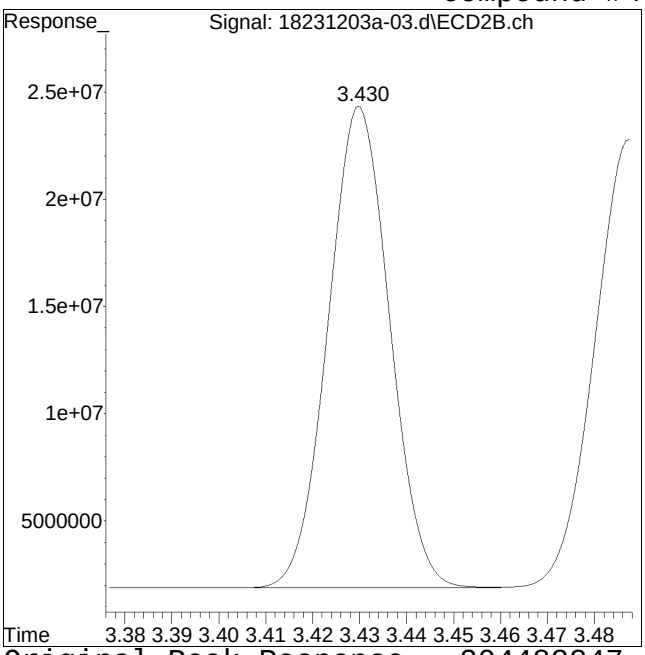


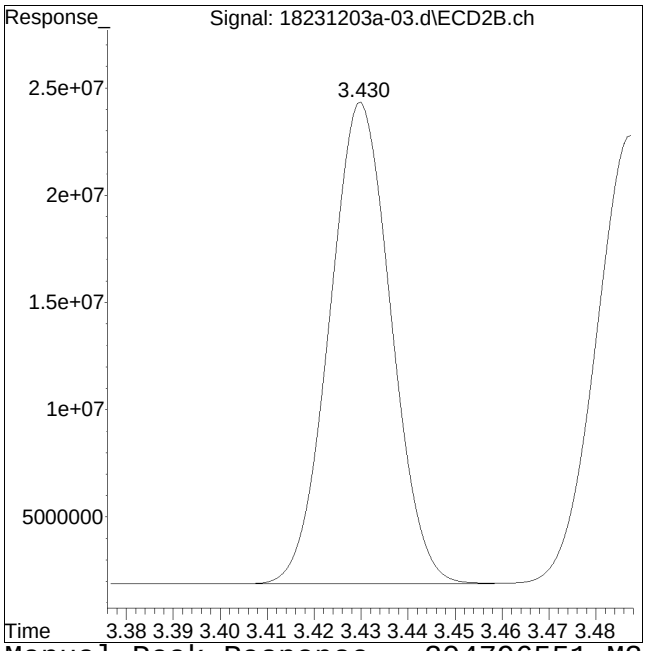
Original Peak Response = 279824871 Manual Peak Response = 279713443 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #45: delta-BHC #2



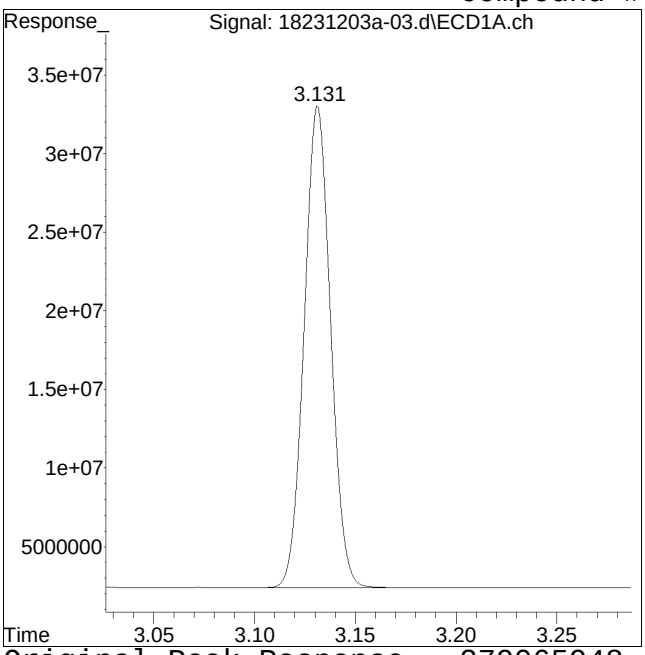


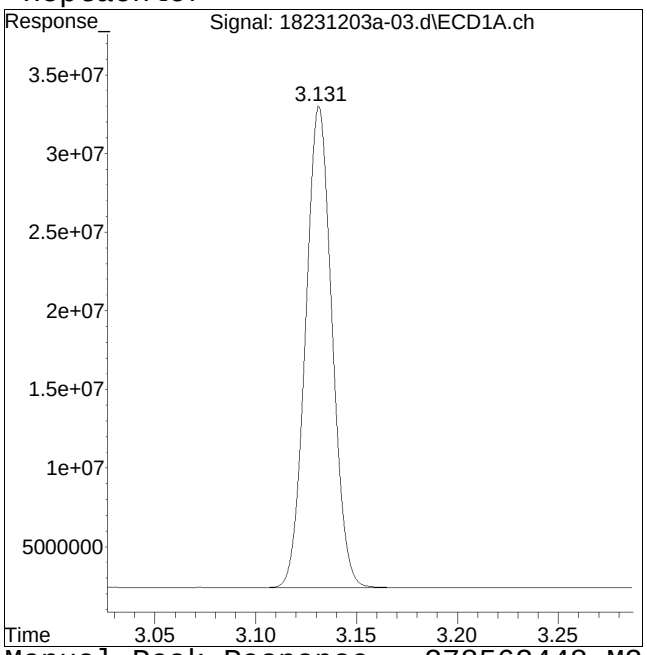
Original Peak Response = 204482247 Manual Peak Response = 204796551 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #8: Heptachlor



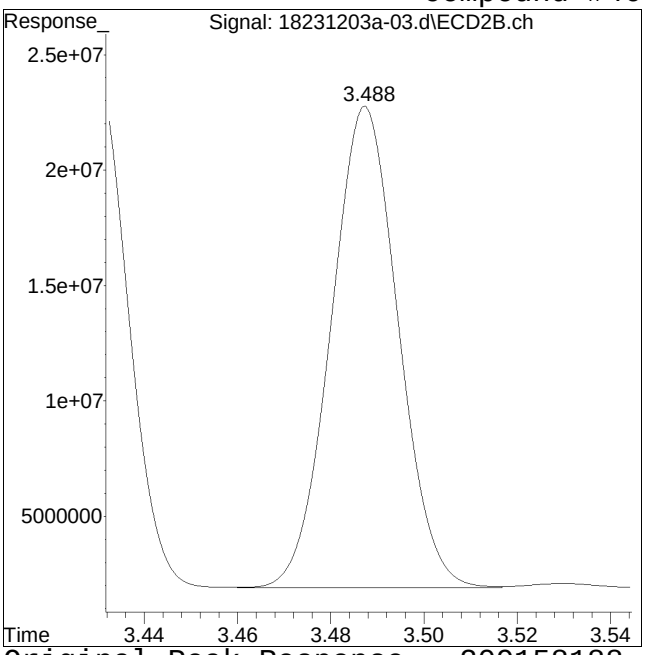


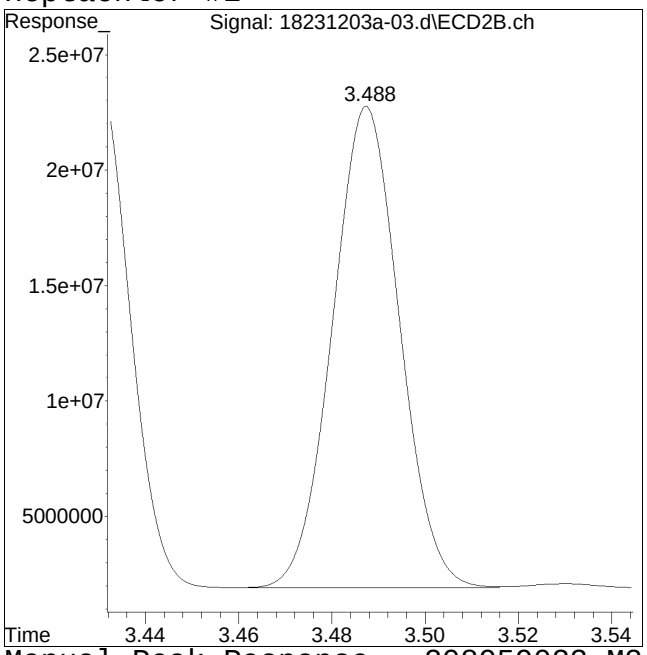
Original Peak Response = 279065948 Manual Peak Response = 278562448 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #46: Heptachlor #2



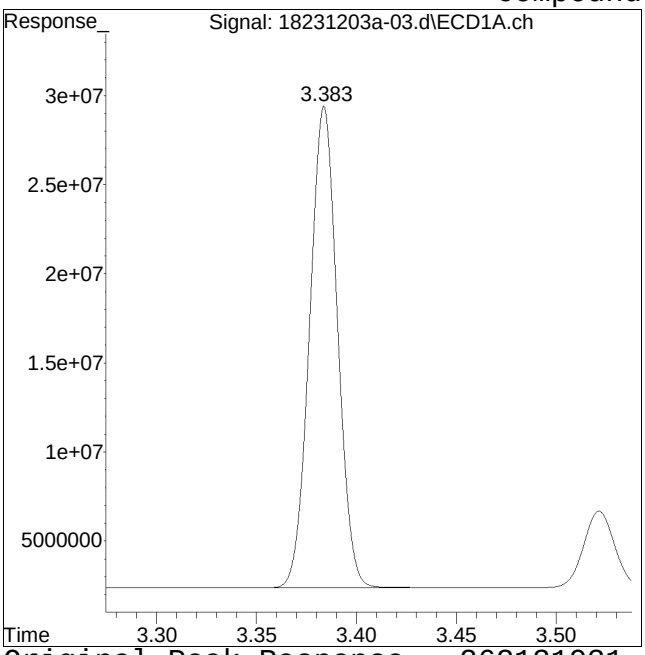


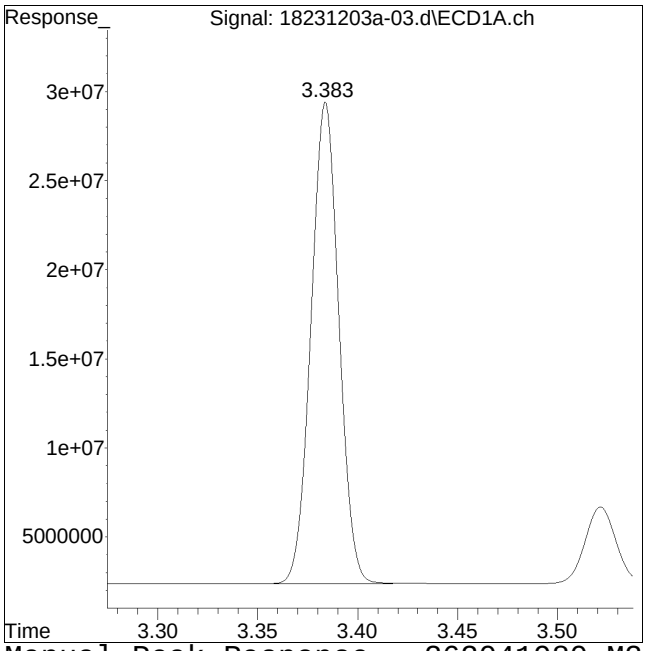
Original Peak Response = 209158188 Manual Peak Response = 208959023 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #9: Aldrin



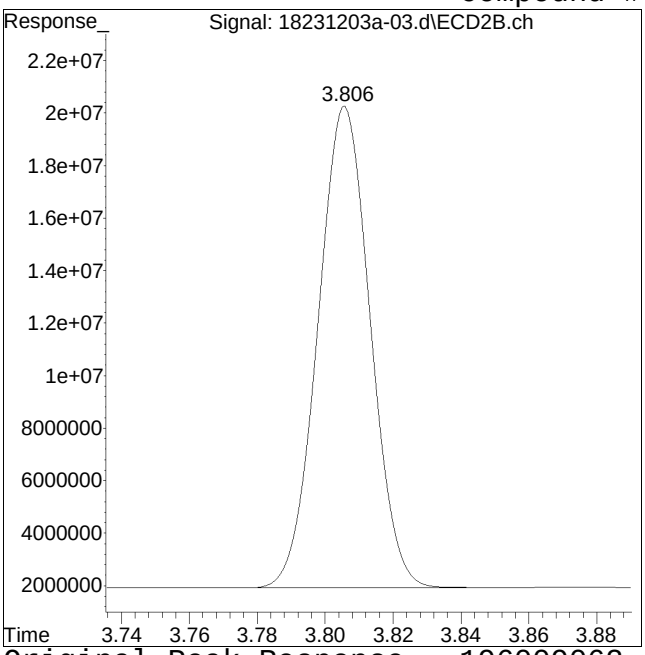


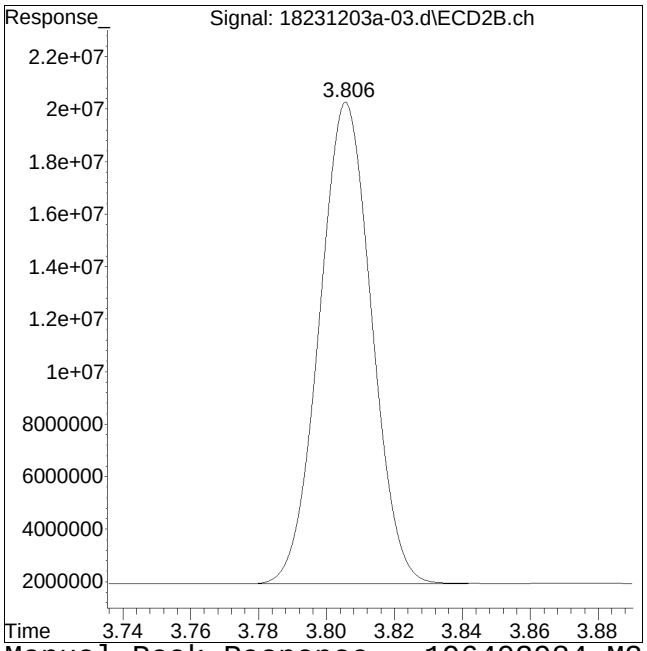
Original Peak Response = 262131931 Manual Peak Response = 262041980 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #47: Aldrin #2



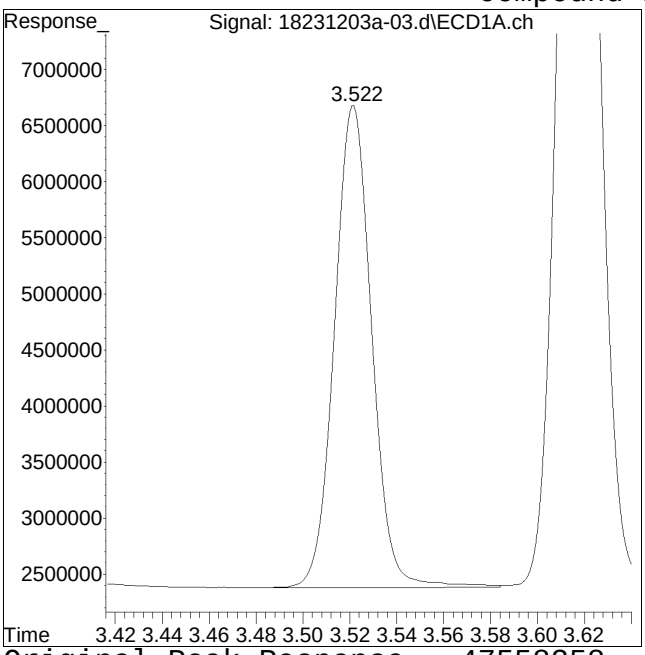


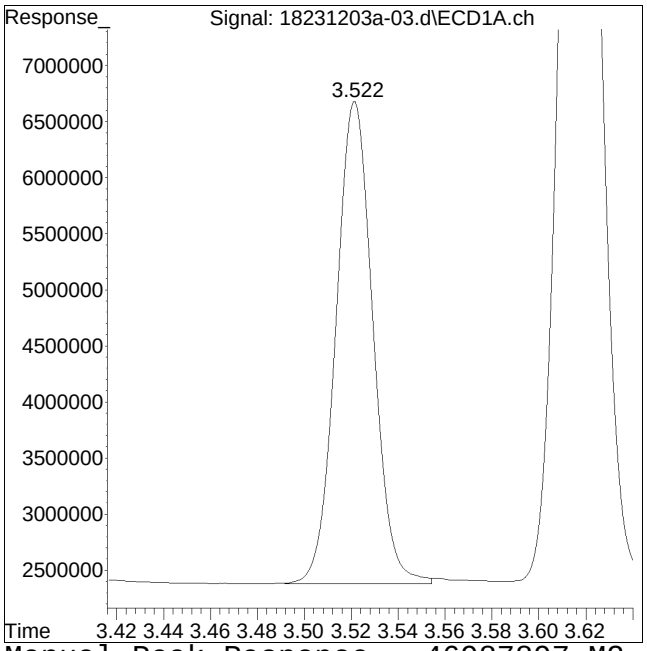
Original Peak Response = 196009062 Manual Peak Response = 196403984 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #10: Alachlor



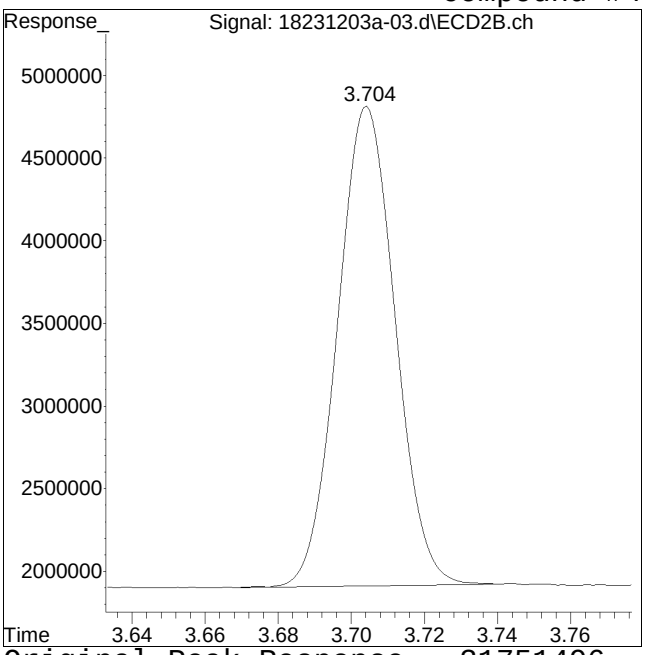


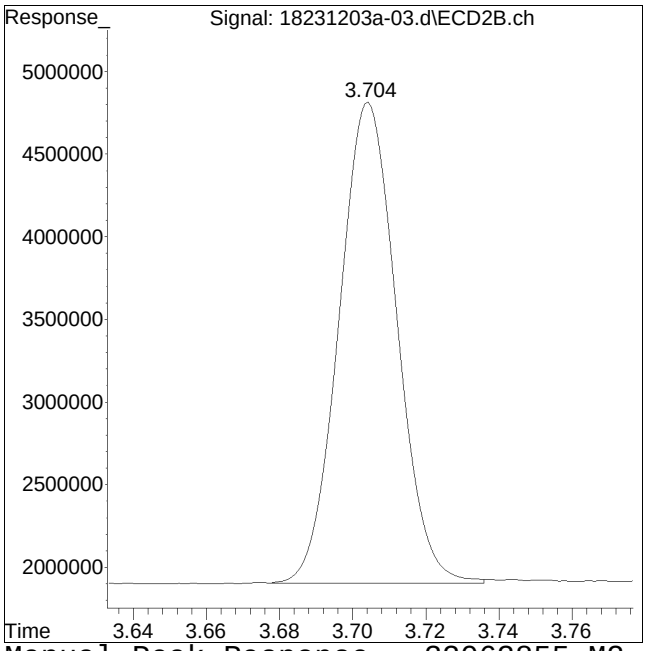
Original Peak Response = 47558258 Manual Peak Response = 46987897 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #48: Alachlor #2



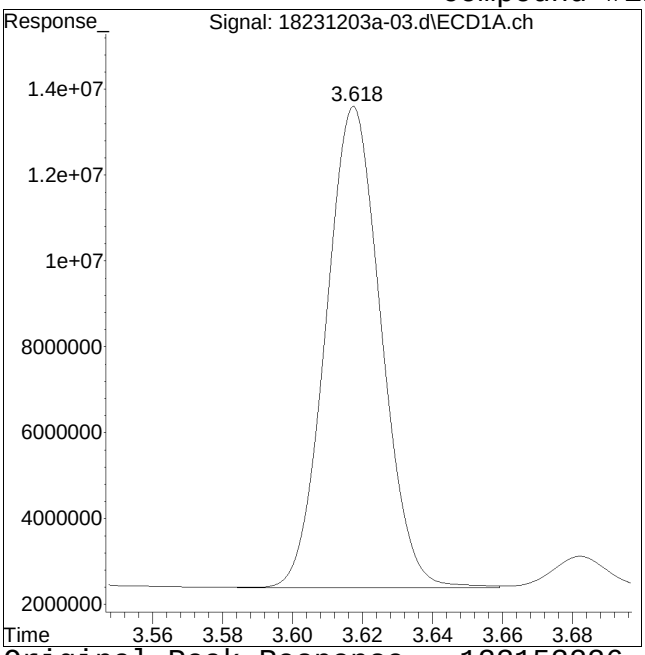


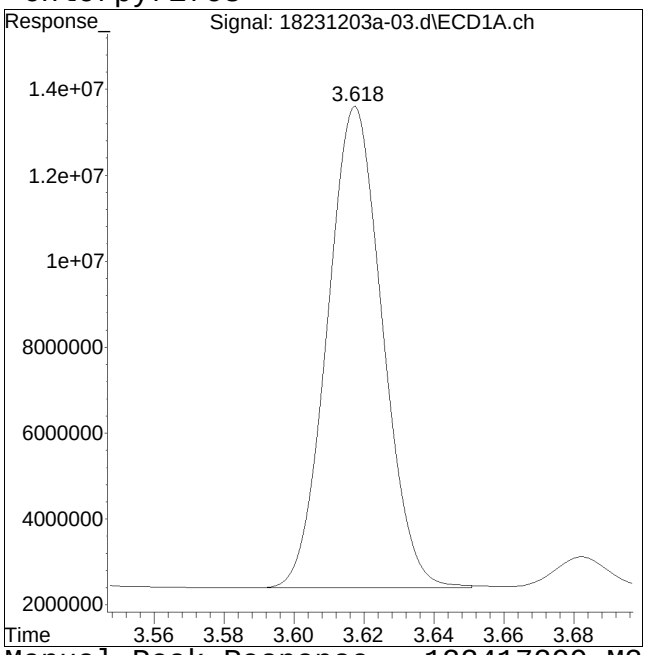
Original Peak Response = 31751496 Manual Peak Response = 32063855 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #11: Chlorpyrifos



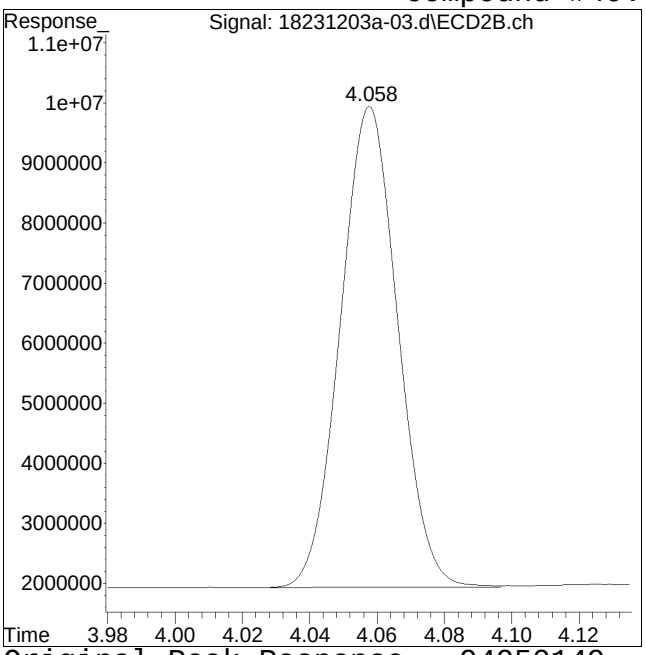


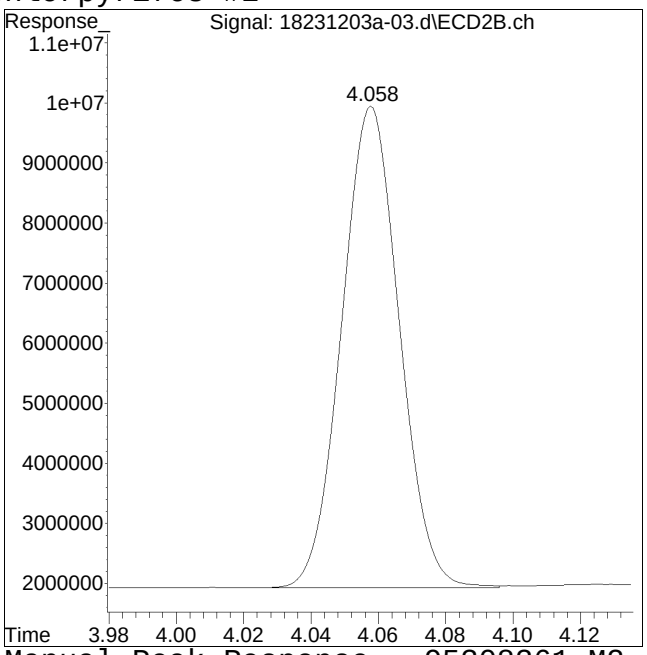
Original Peak Response = 123153226 Manual Peak Response = 122417299 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #49: Chlorpyrifos #2



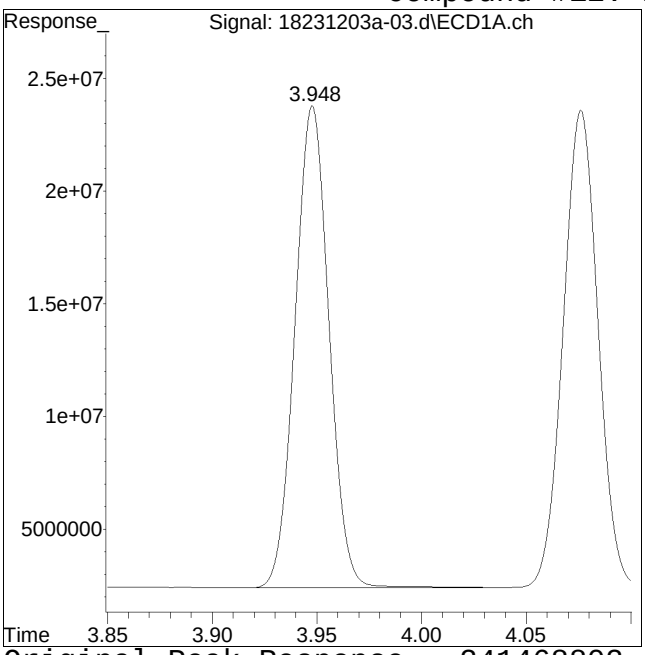


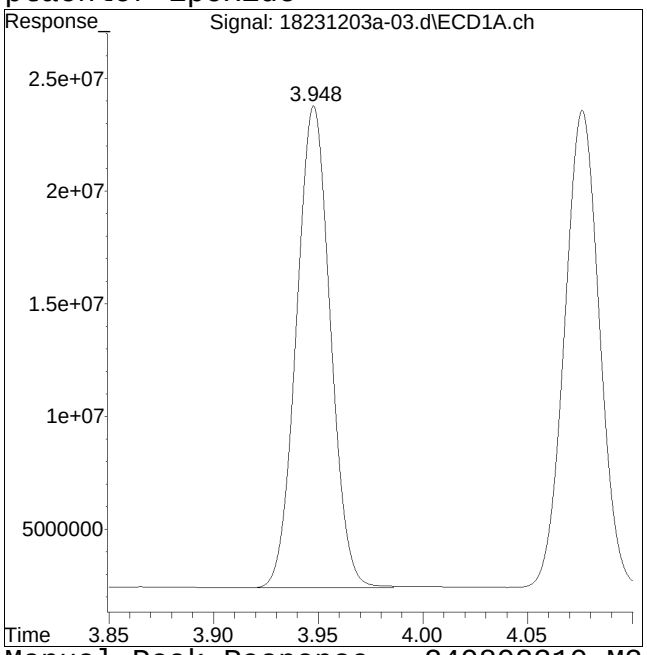
Original Peak Response = 94950149 Manual Peak Response = 95308361 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #12: Heptachlor Epoxide



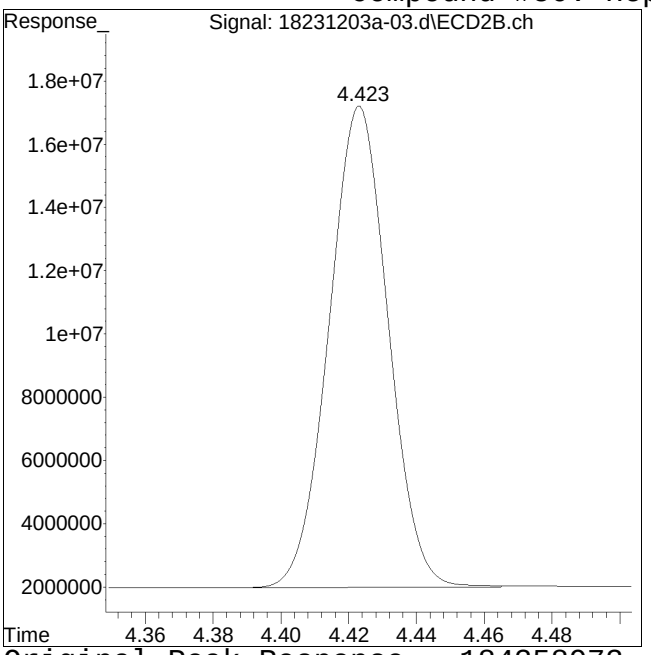


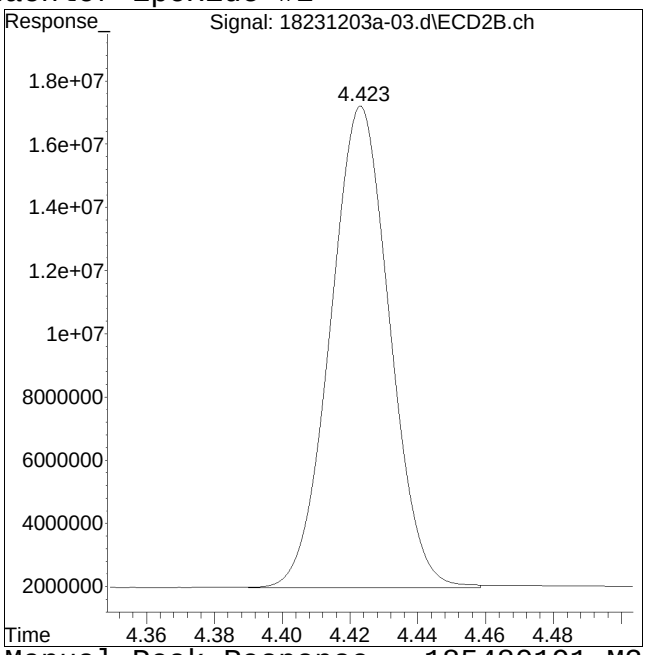
Original Peak Response = 241468802 Manual Peak Response = 240802310 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #50: Heptachlor Epoxide #2



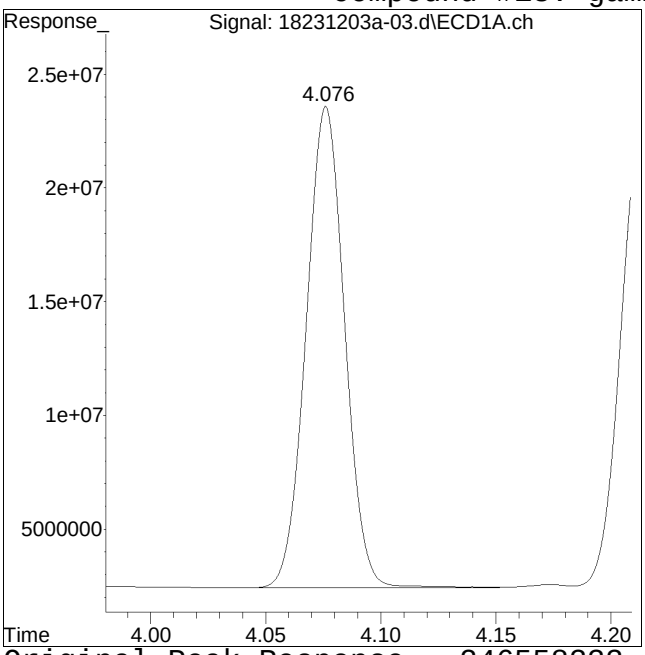


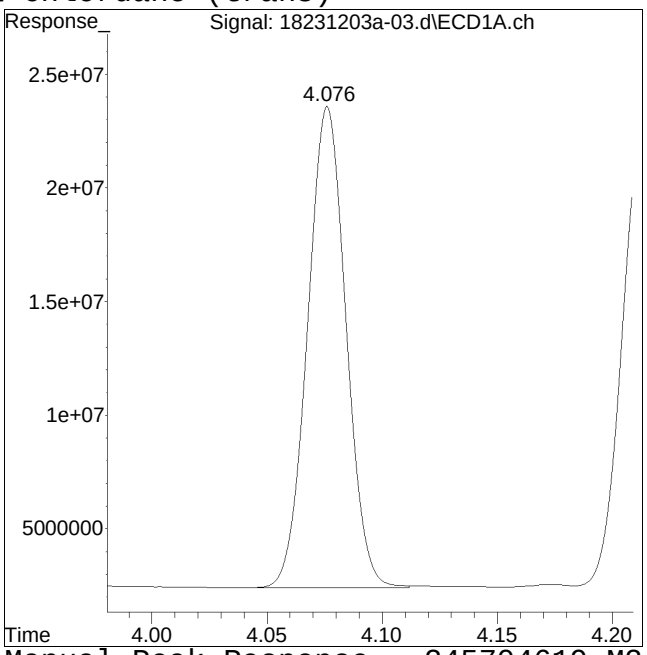
Original Peak Response = 184358973 Manual Peak Response = 185480191 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #13: gamma-Chlordane (trans)



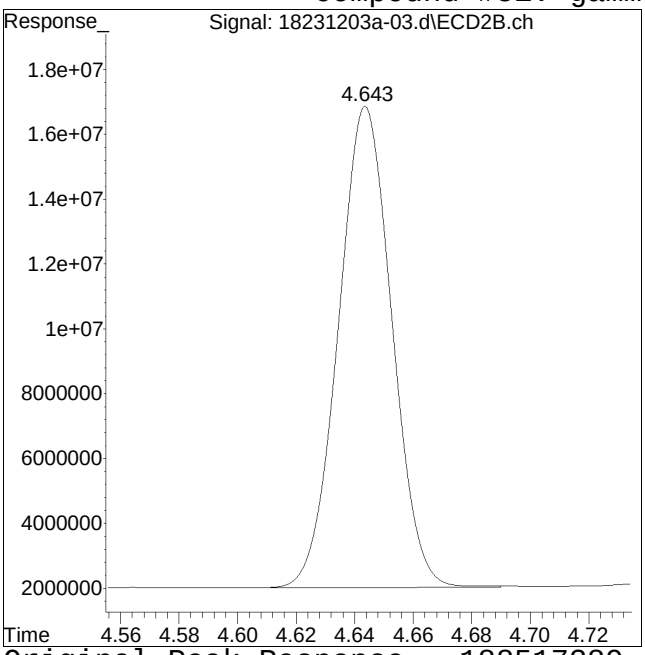


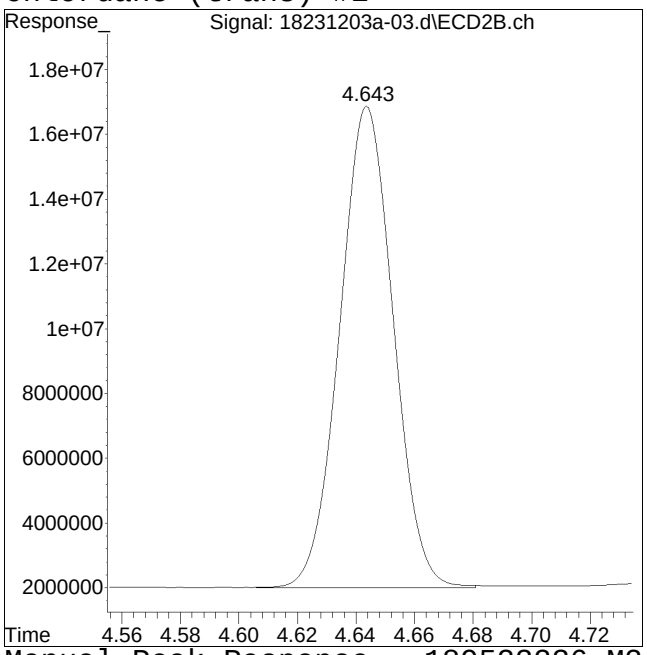
Original Peak Response = 246558333 Manual Peak Response = 245704619 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #51: gamma-Chlordane (trans) #2



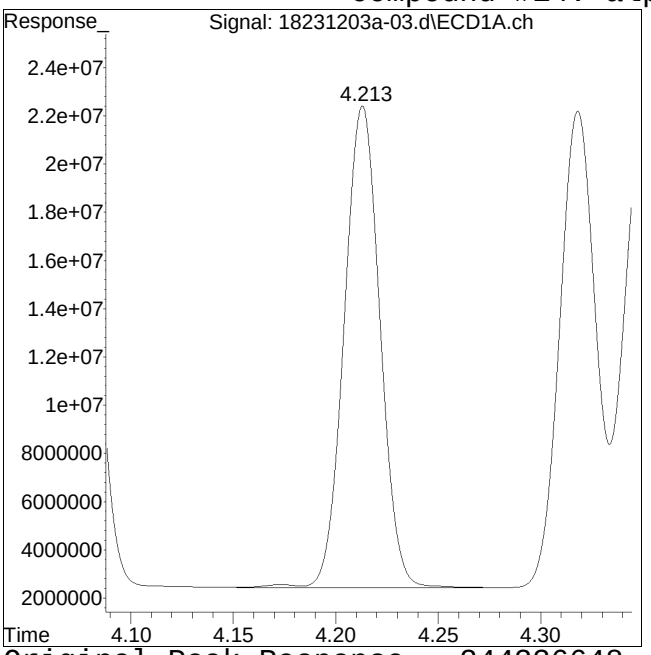


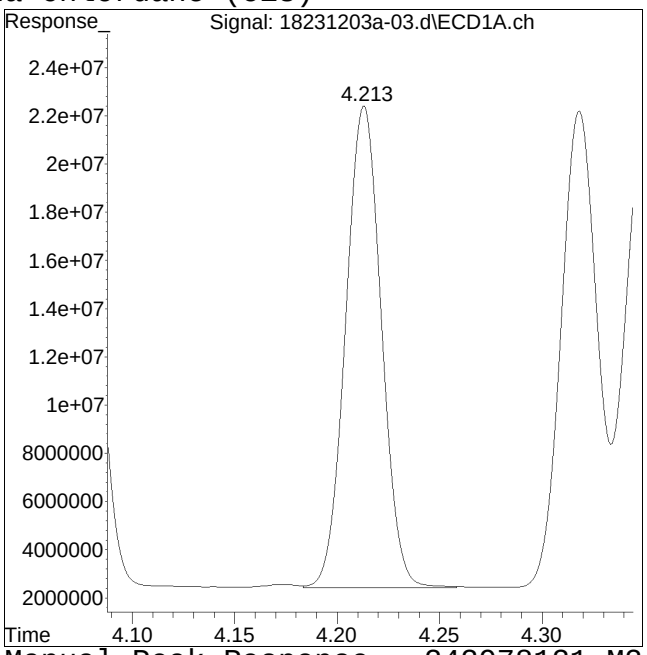
Original Peak Response = 188517389 Manual Peak Response = 189523236 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #14: alpha-Chlordane (cis)



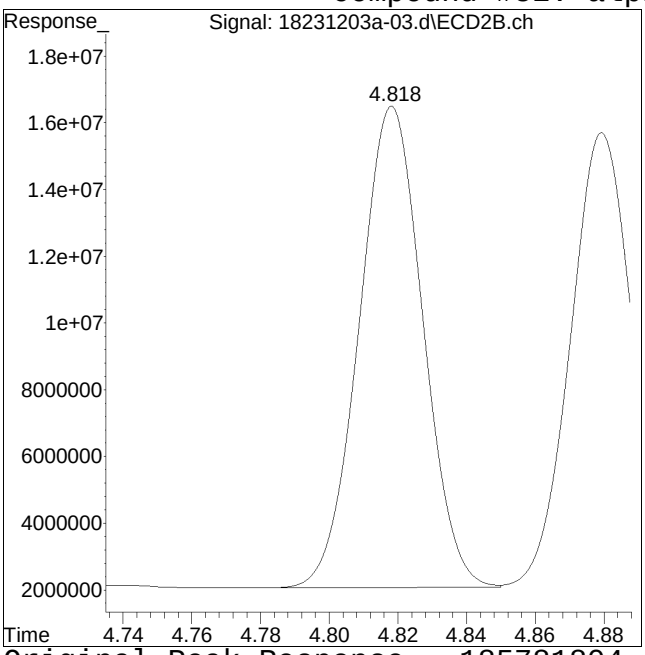


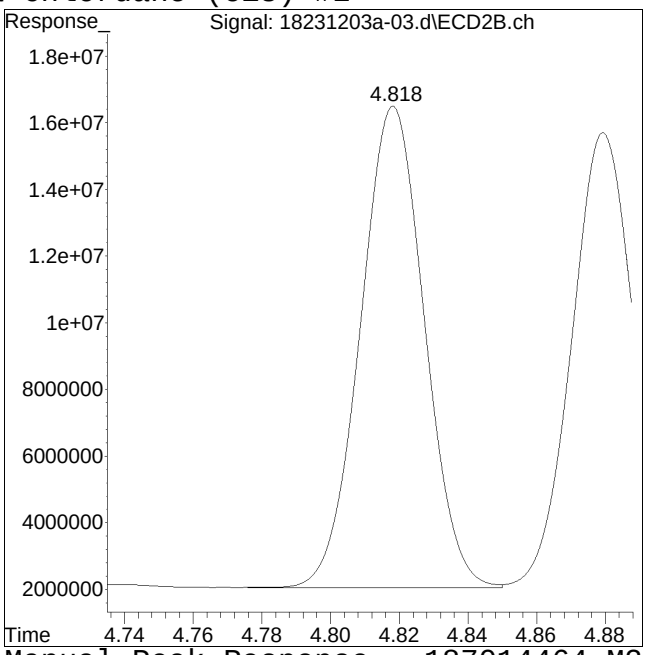
Original Peak Response = 244336648 Manual Peak Response = 242978121 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #52: alpha-Chlordane (cis) #2



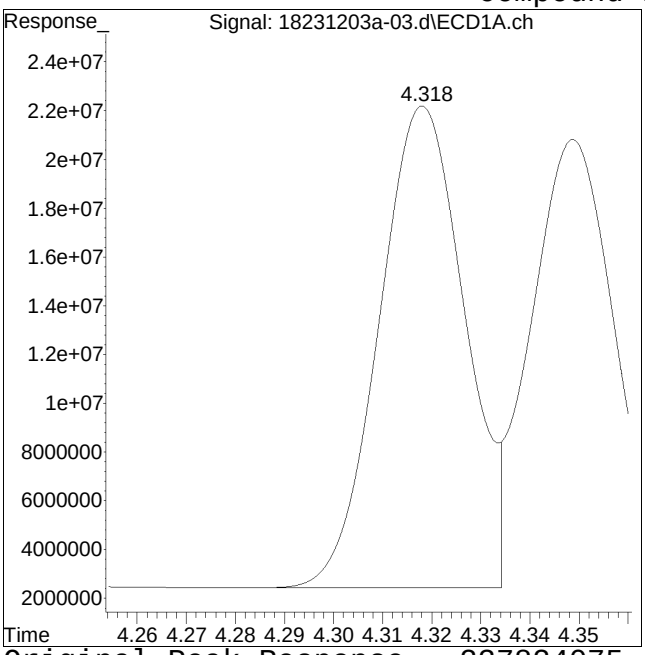


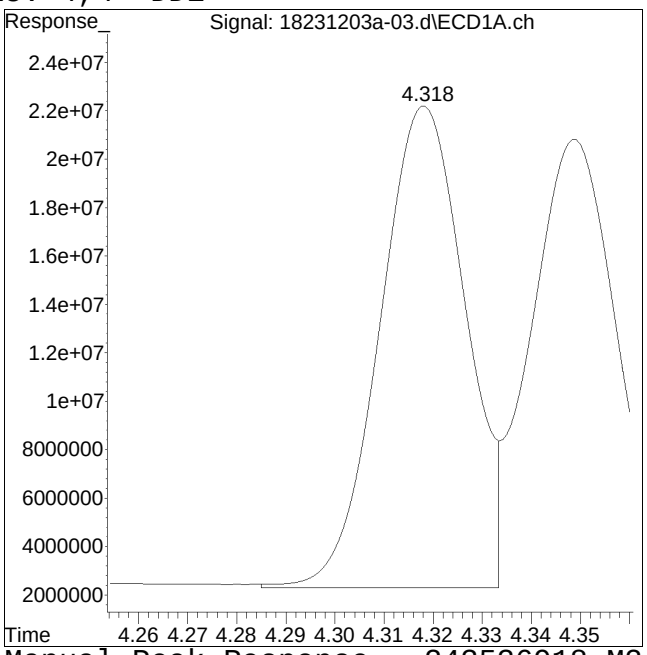
Original Peak Response = 185781804 Manual Peak Response = 187014464 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #15: 4,4'-DDE



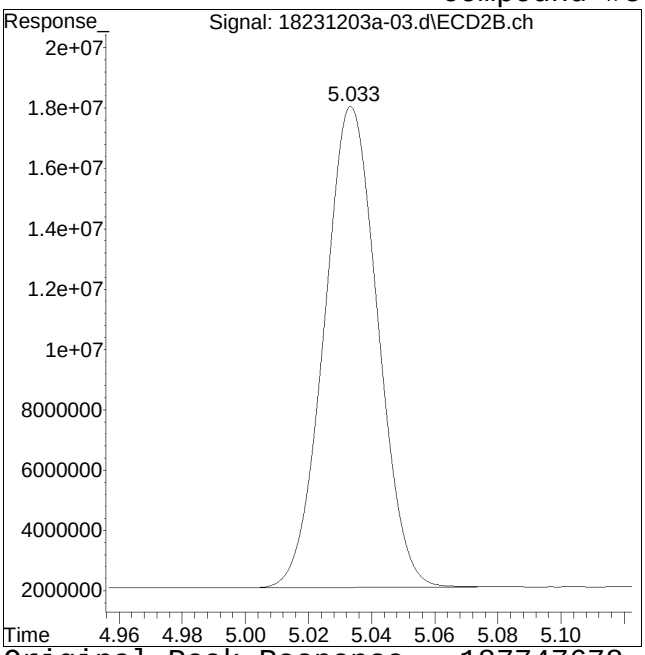


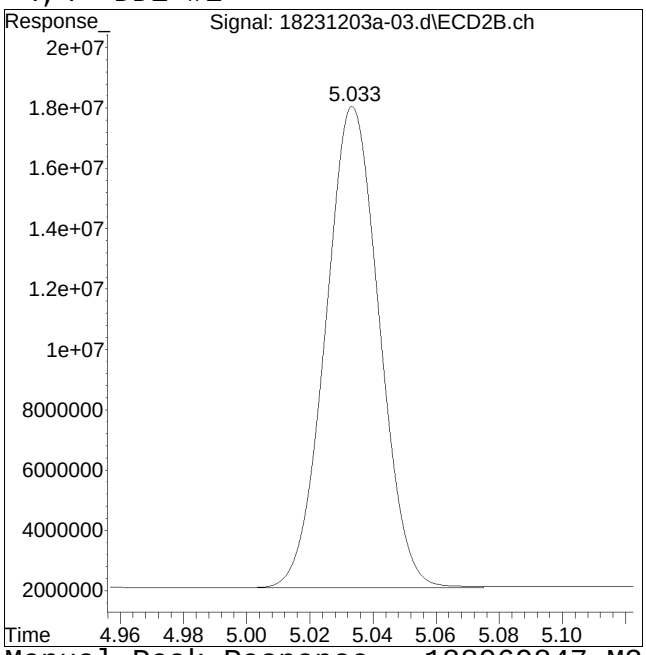
Original Peak Response = 237824075 Manual Peak Response = 243536918 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #53: 4,4'-DDE #2



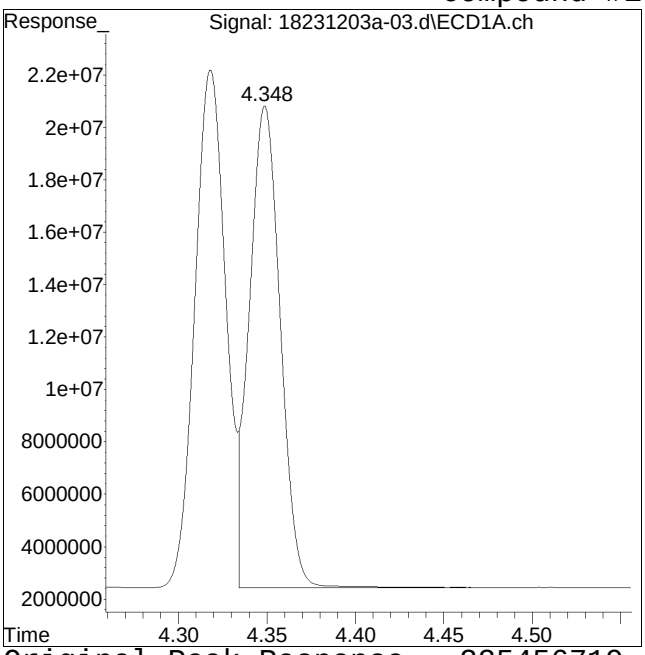


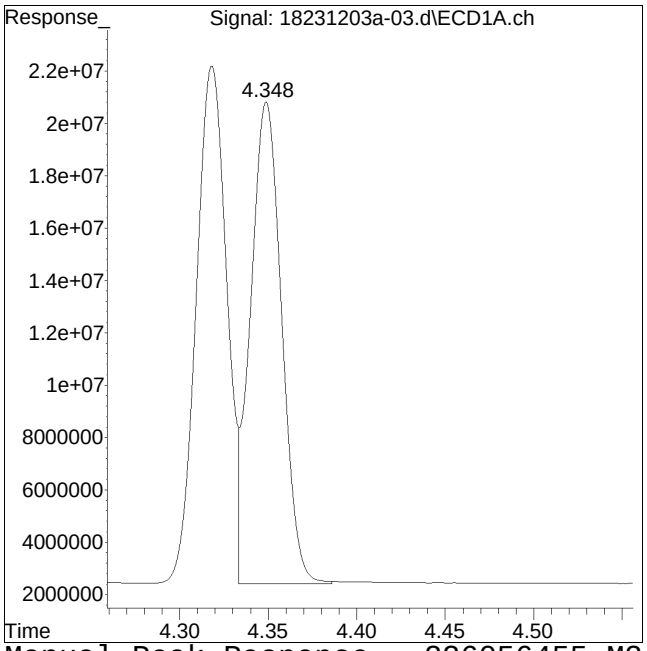
Original Peak Response = 187747678 Manual Peak Response = 188969847 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #16: Endosulfan I



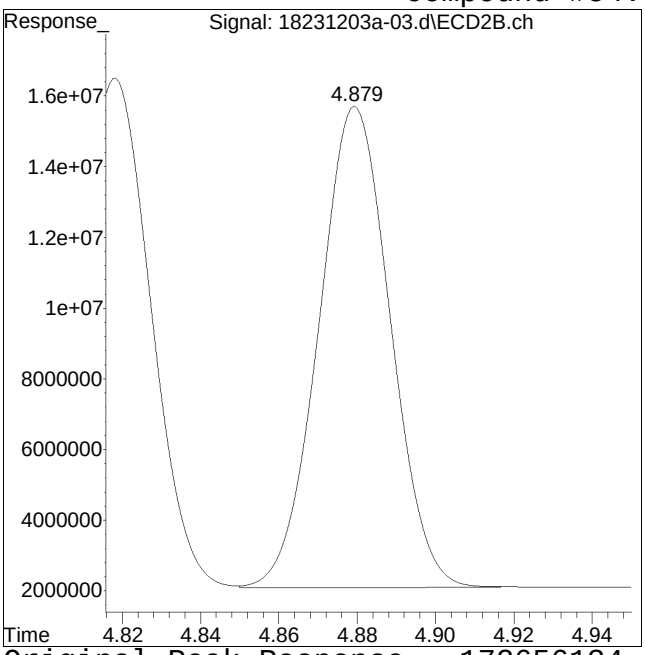


Original Peak Response = 225456719 Manual Peak Response = 226056455 M2
M2 = Peak not found by automatic integration algorithm.

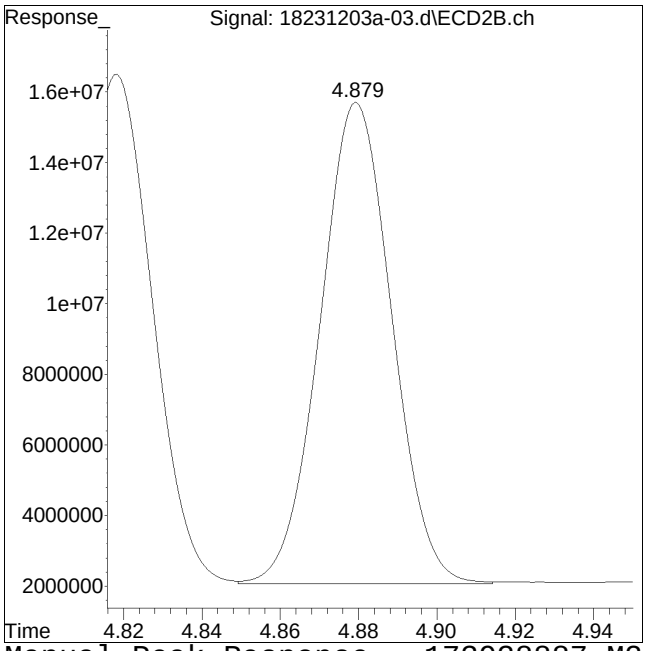
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #54: Endosulfan I #2



Original Peak Response = 172656134



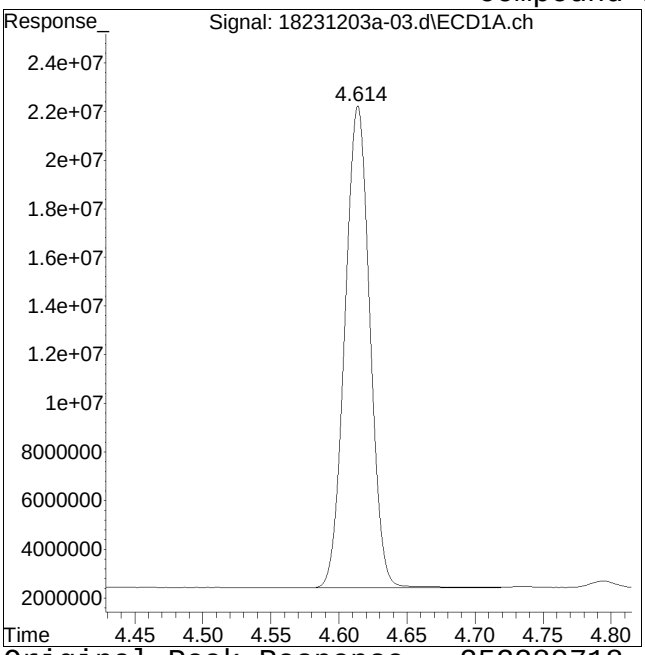
Manual Peak Response = 173938887 M2

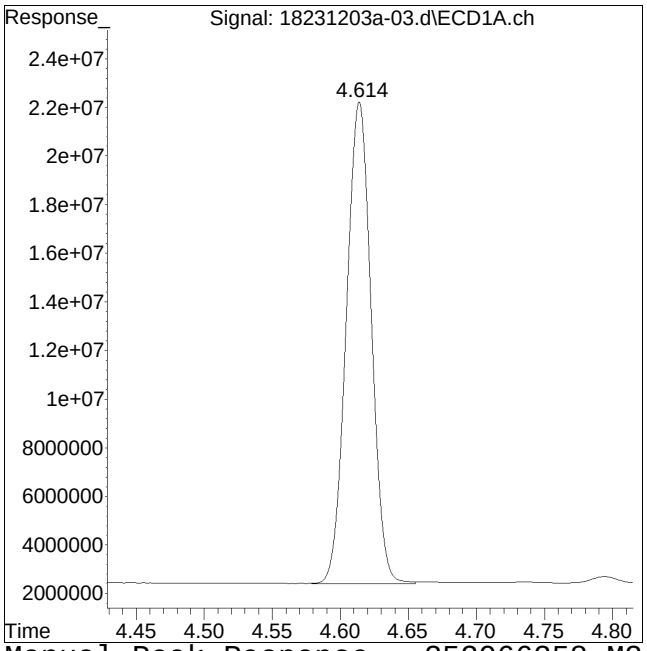
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #17: Dieldrin



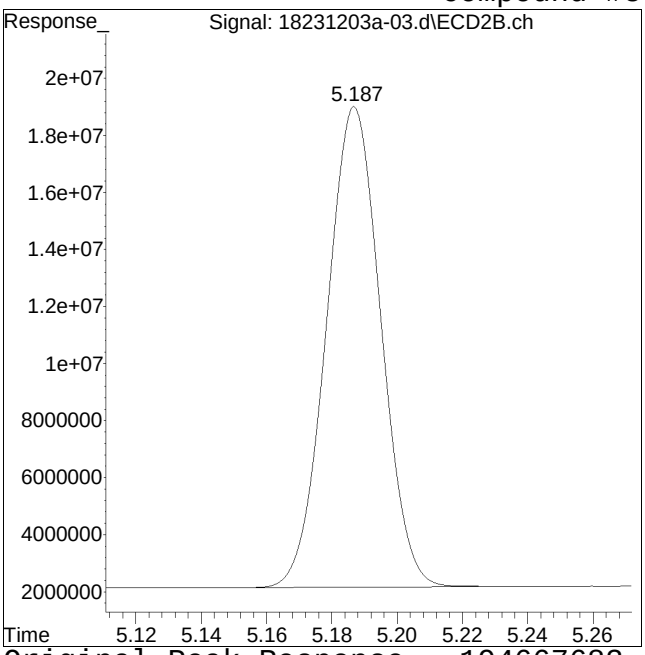


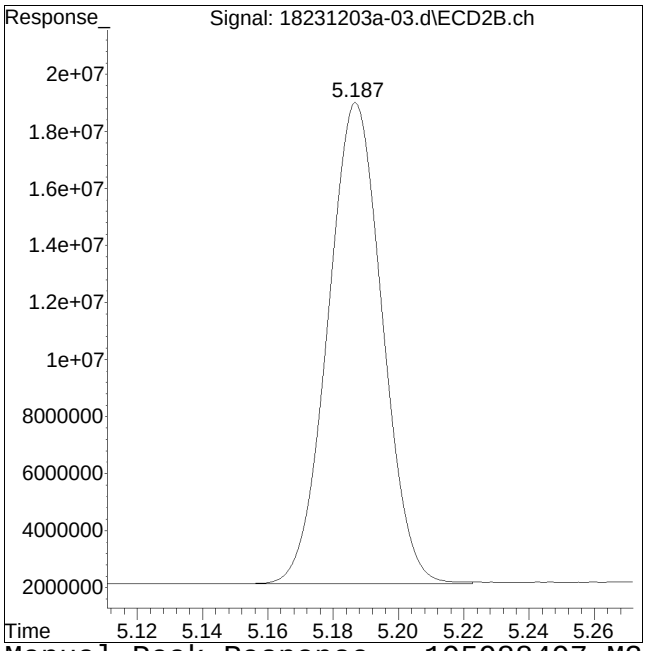
Original Peak Response = 252289718 Manual Peak Response = 252966258 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #55: Dieldrin #2



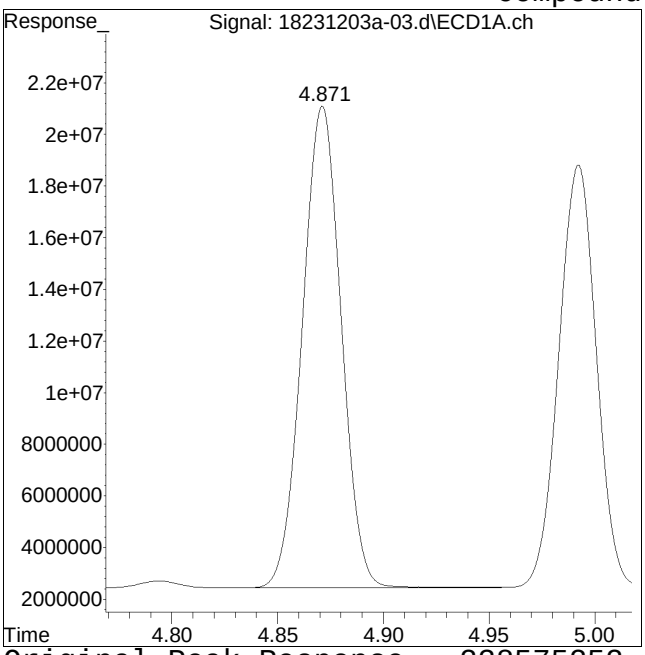


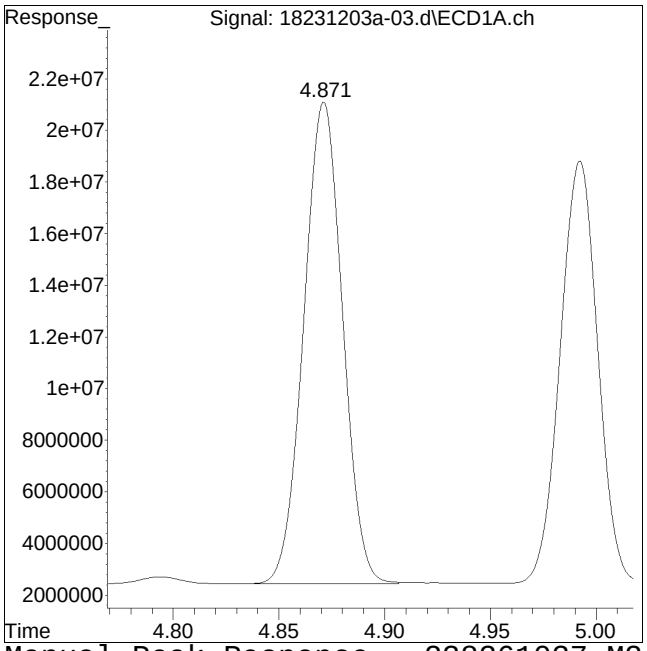
Original Peak Response = 194667683 Manual Peak Response = 195988497 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #18: Endrin



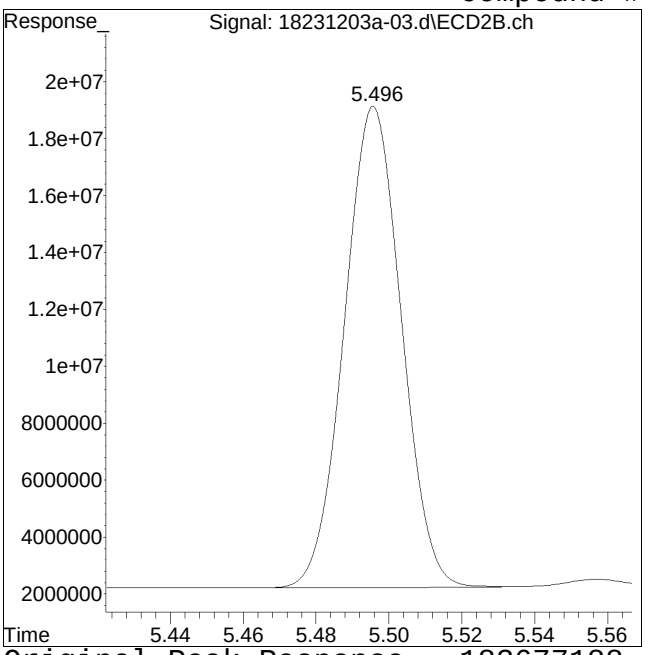


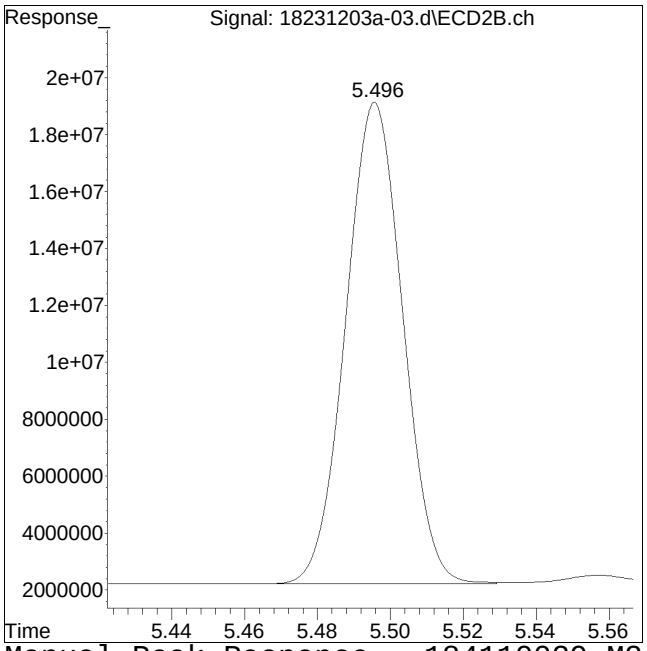
Original Peak Response = 238575252 Manual Peak Response = 238361037 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #56: Endrin #2



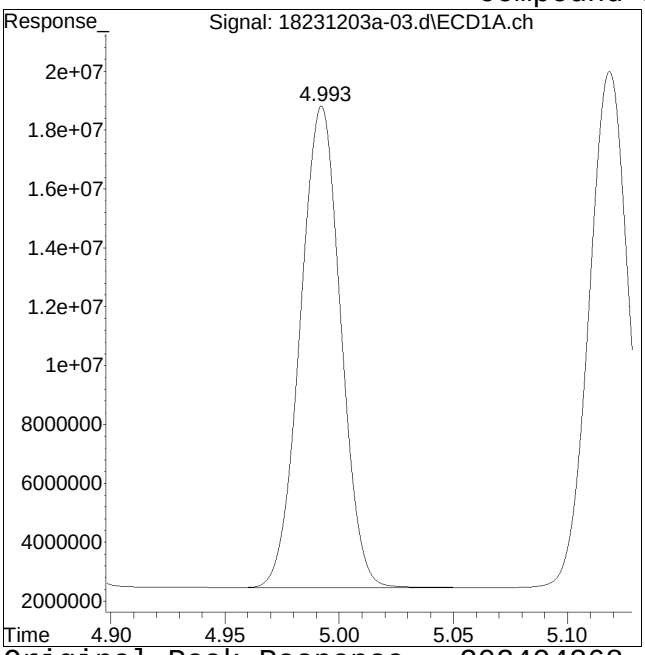


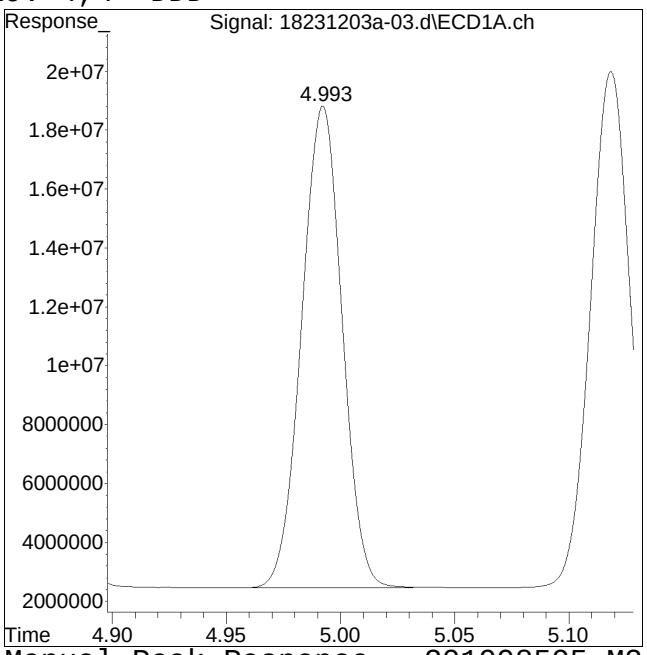
Original Peak Response = 183677188 Manual Peak Response = 184110029 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #19: 4,4'-DDD



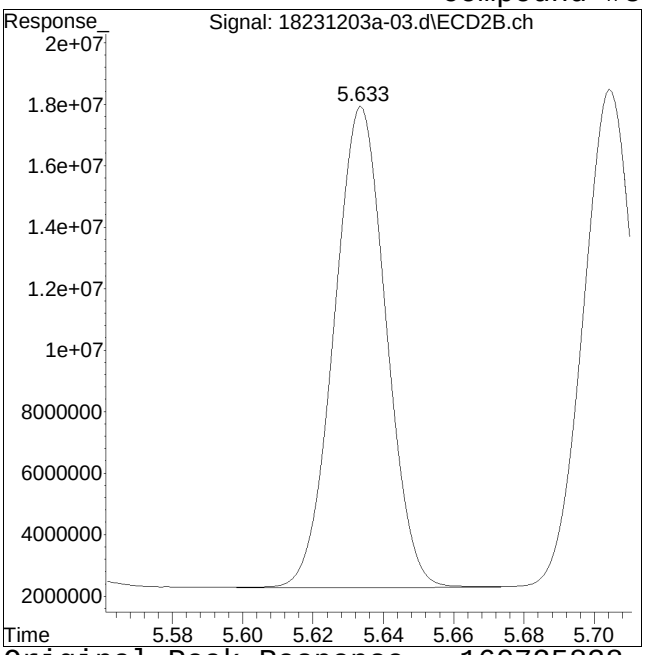


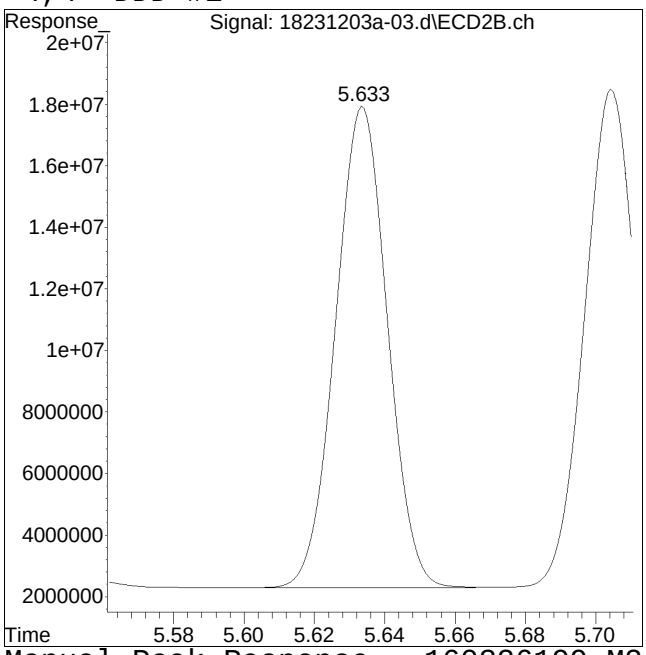
Original Peak Response = 202404268 Manual Peak Response = 201998595 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #57: 4,4'-DDD #2



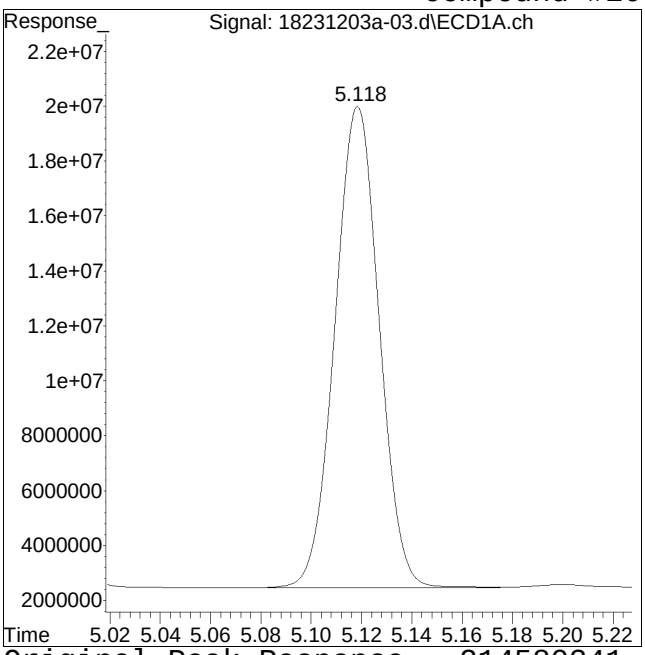


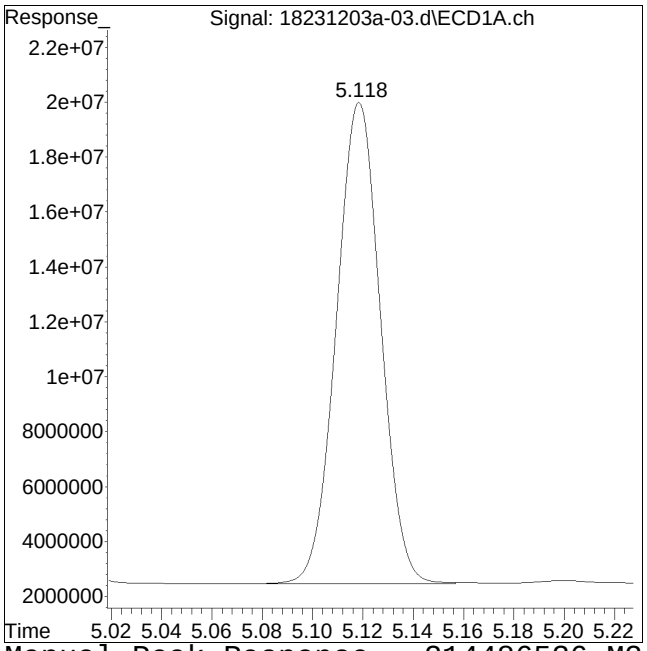
Original Peak Response = 160725838 Manual Peak Response = 160326199 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #20: Endosulfan II



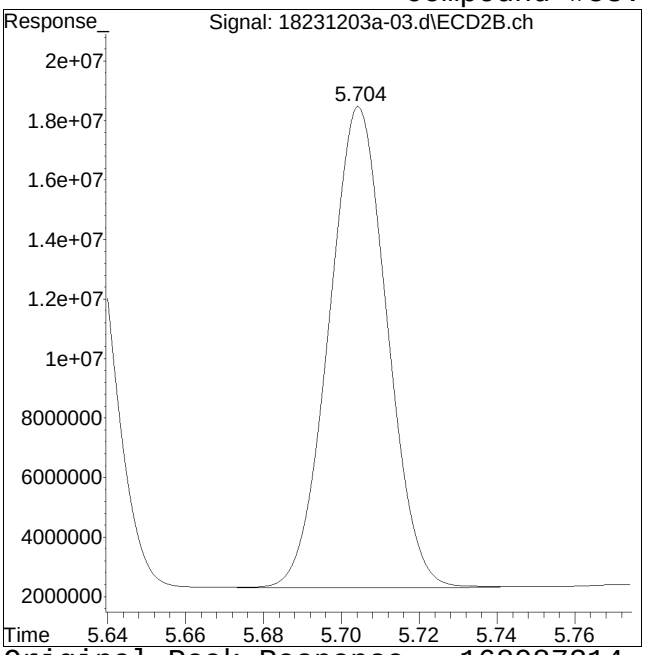


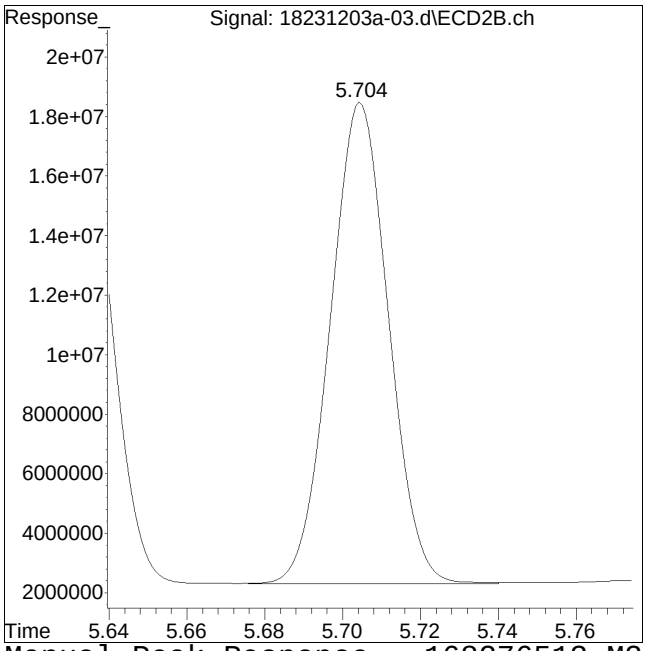
Original Peak Response = 214580341 Manual Peak Response = 214486536 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #58: Endosulfan II #2



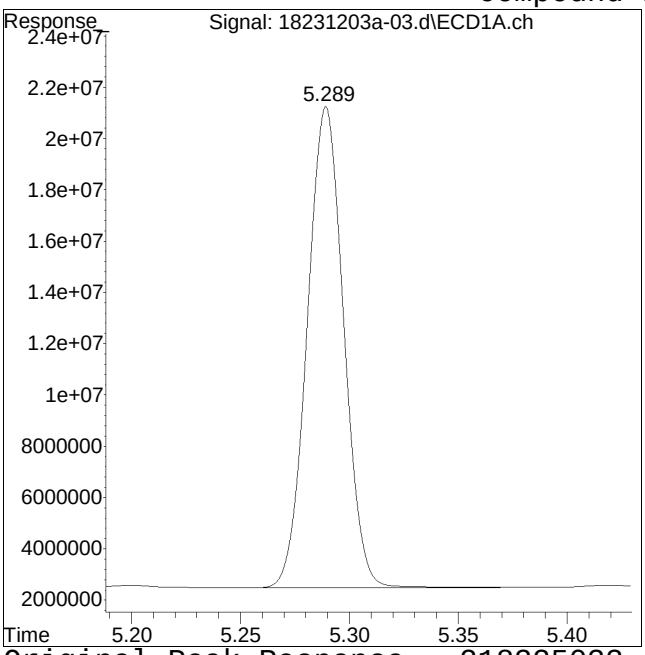


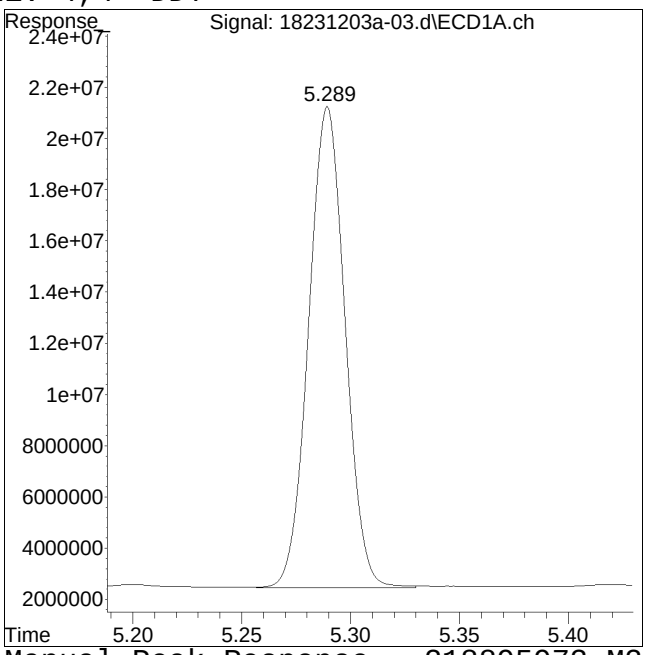
Original Peak Response = 168087314 Manual Peak Response = 168276513 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #21: 4,4'-DDT



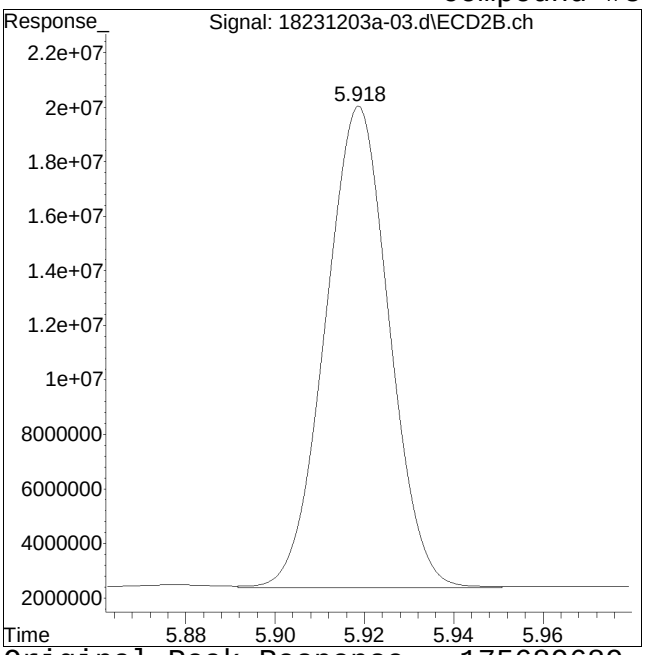


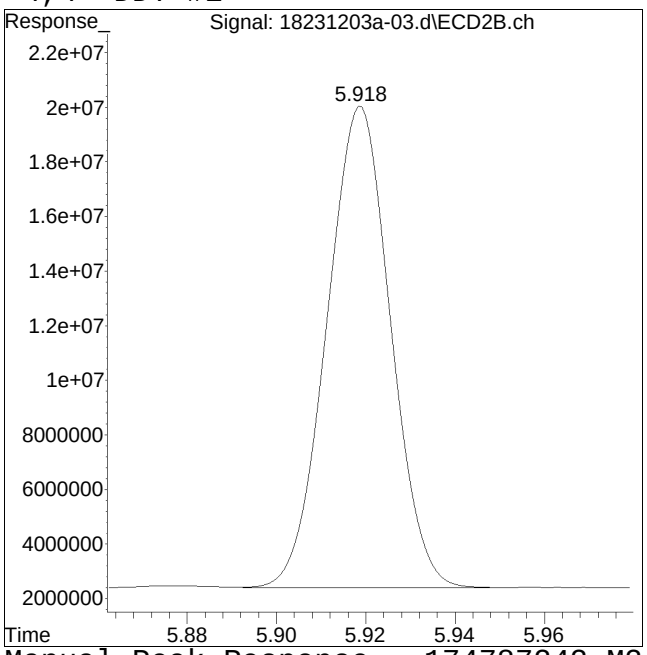
Original Peak Response = 218325033 Manual Peak Response = 218895973 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #59: 4,4'-DDT #2



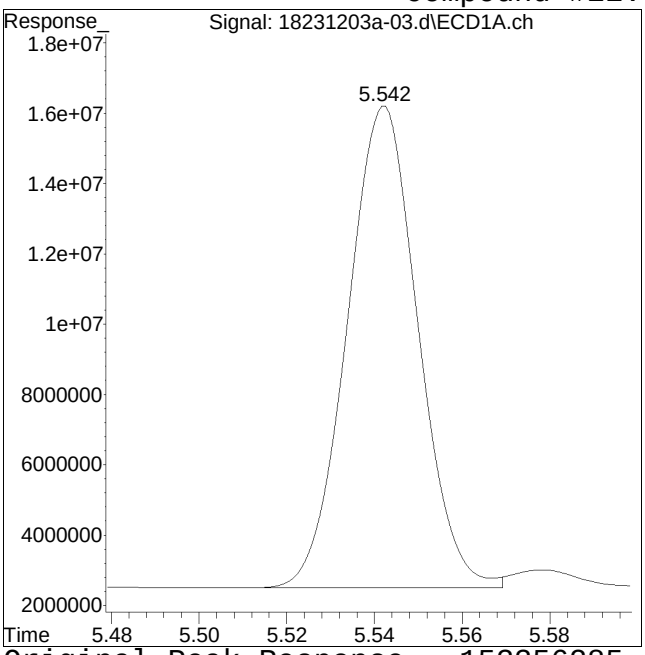


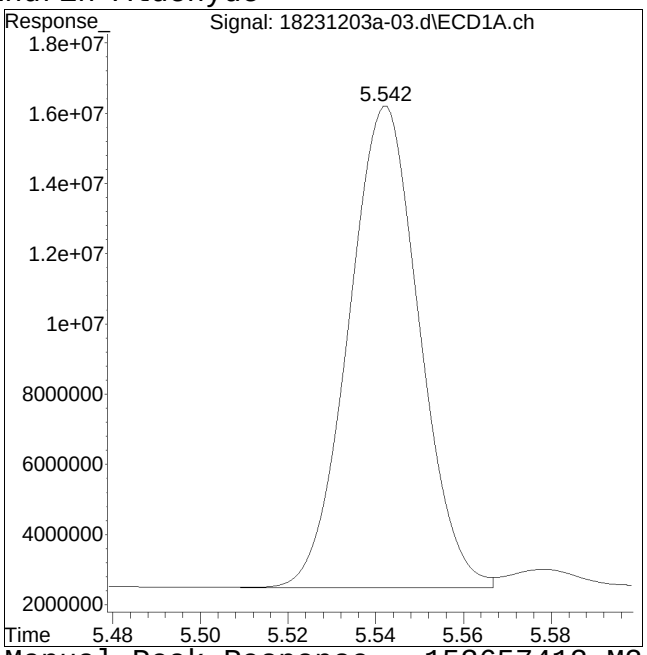
Original Peak Response = 175689689 Manual Peak Response = 174787242 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #22: Endrin Aldehyde



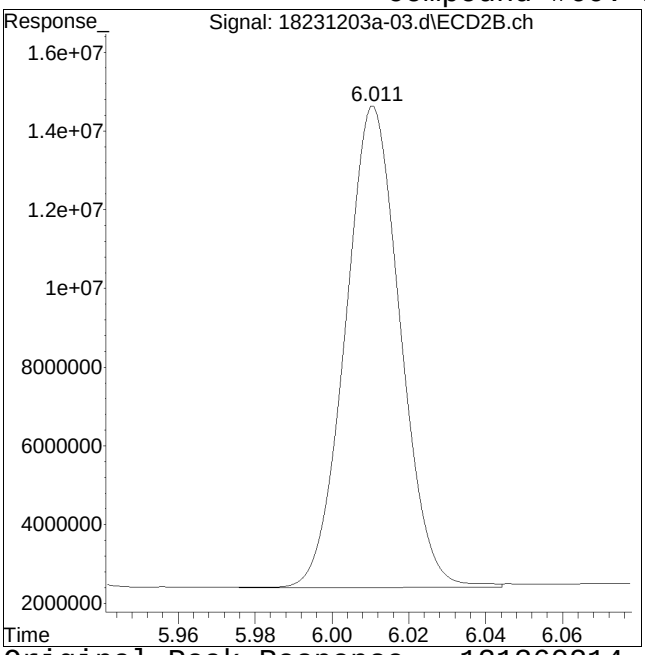


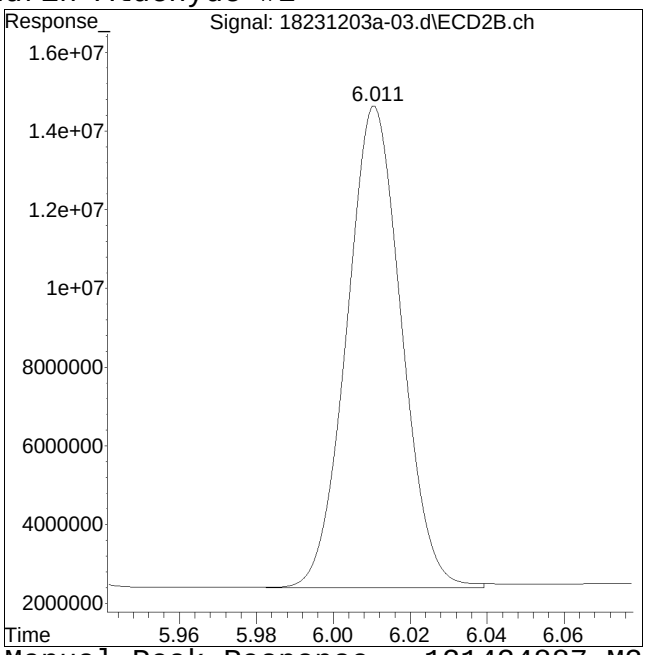
Original Peak Response = 153356285 Manual Peak Response = 153657412 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #60: Endrin Aldehyde #2



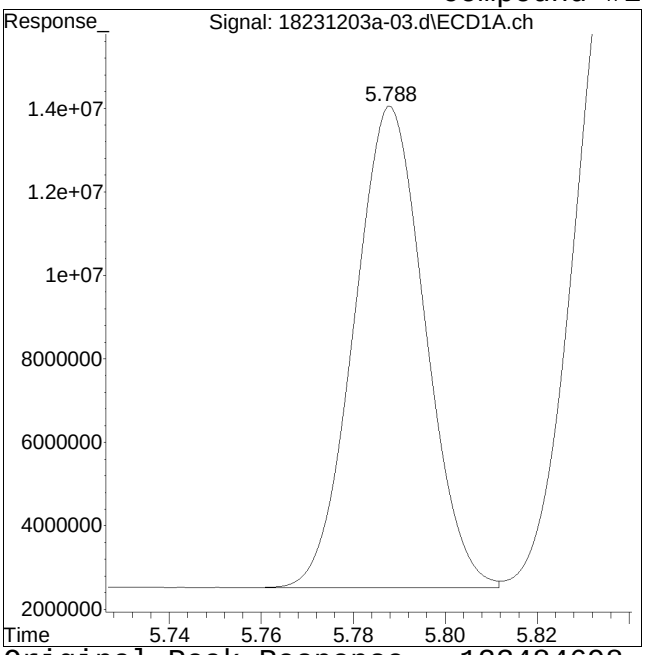


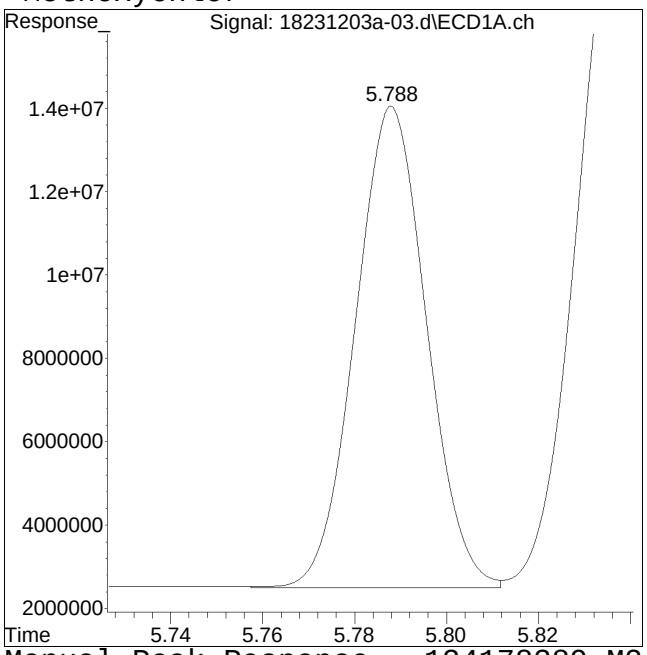
Original Peak Response = 121360214 Manual Peak Response = 121424887 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #23: Methoxychlor



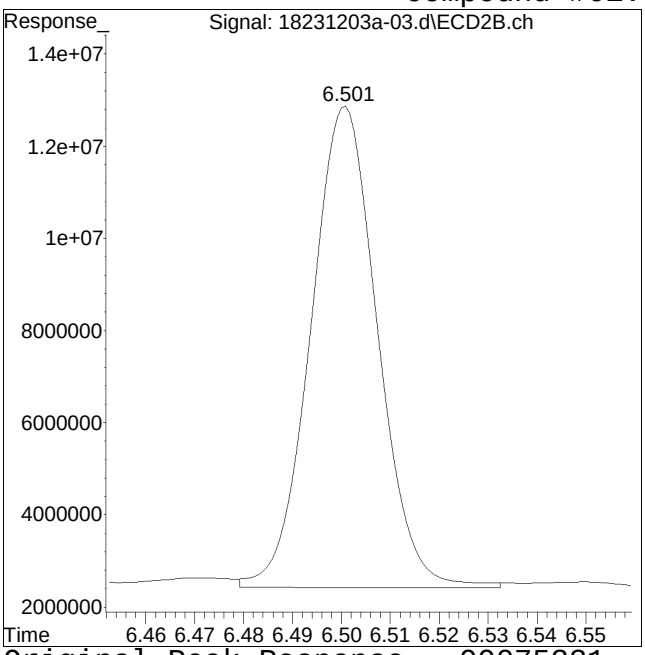


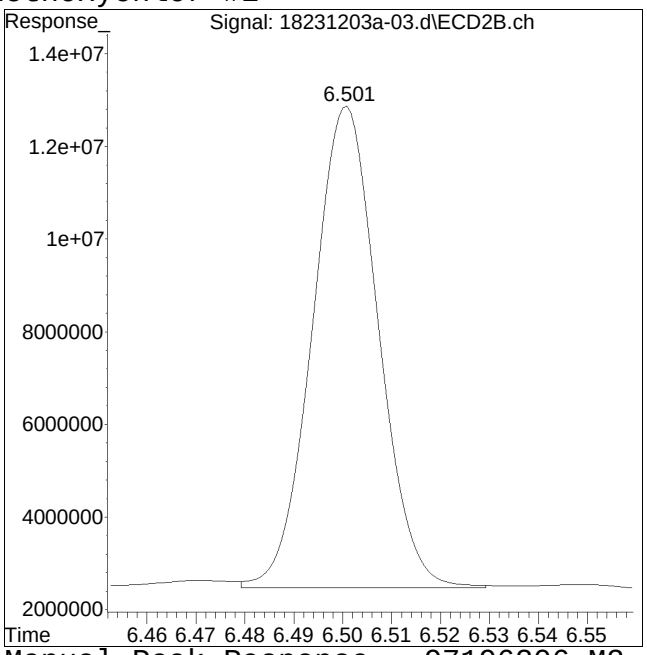
Original Peak Response = 123484698 Manual Peak Response = 124178389 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #61: Methoxychlor #2



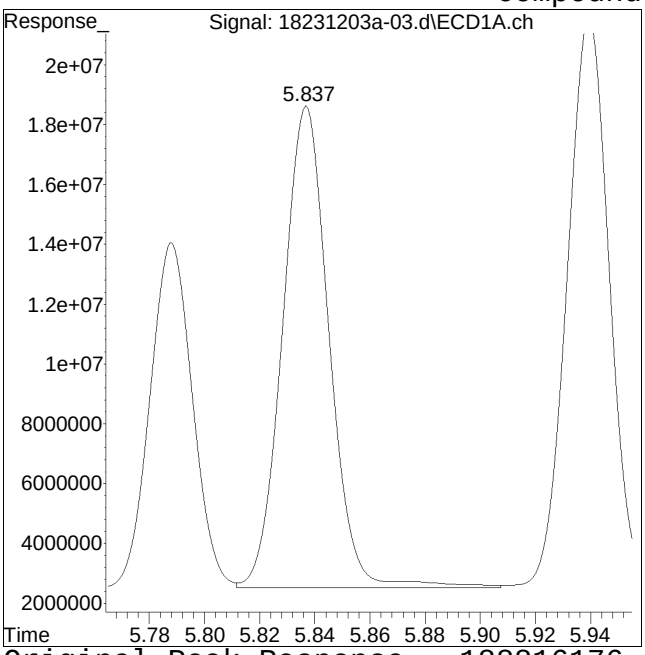


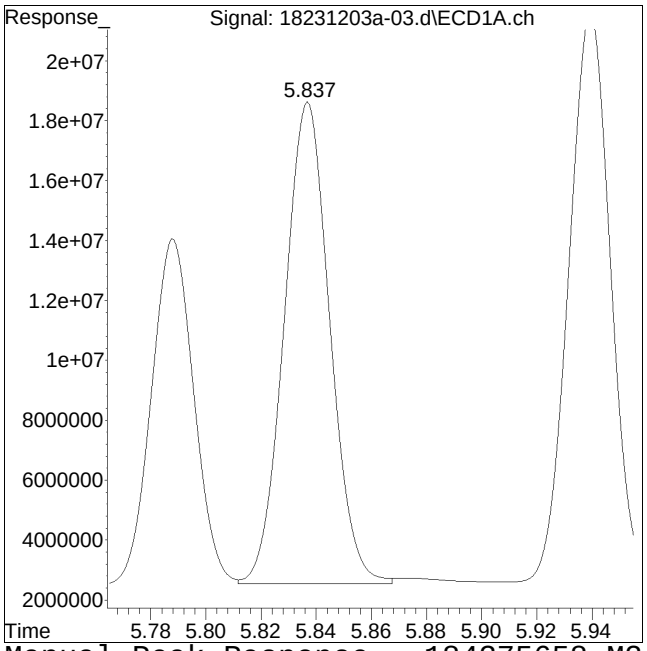
Original Peak Response = 99075331 Manual Peak Response = 97196206 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #24: Mirex



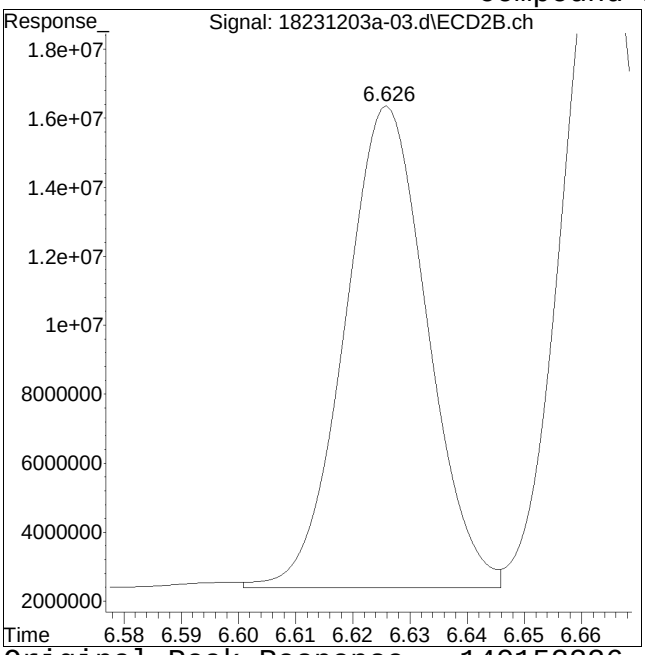


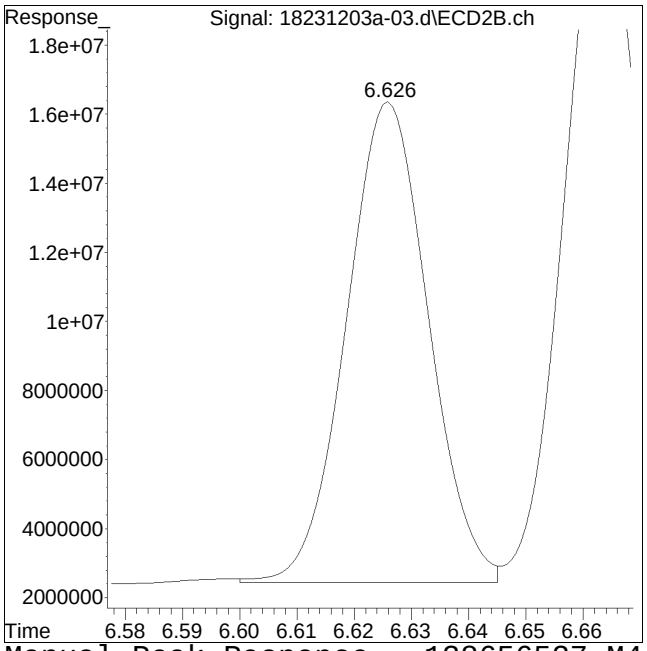
Original Peak Response = 188816176 Manual Peak Response = 184375658 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #62: Mirex #2



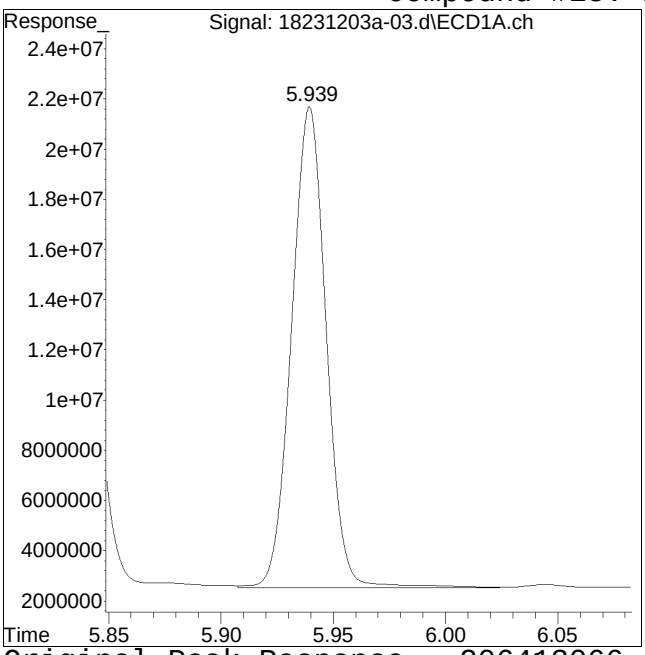


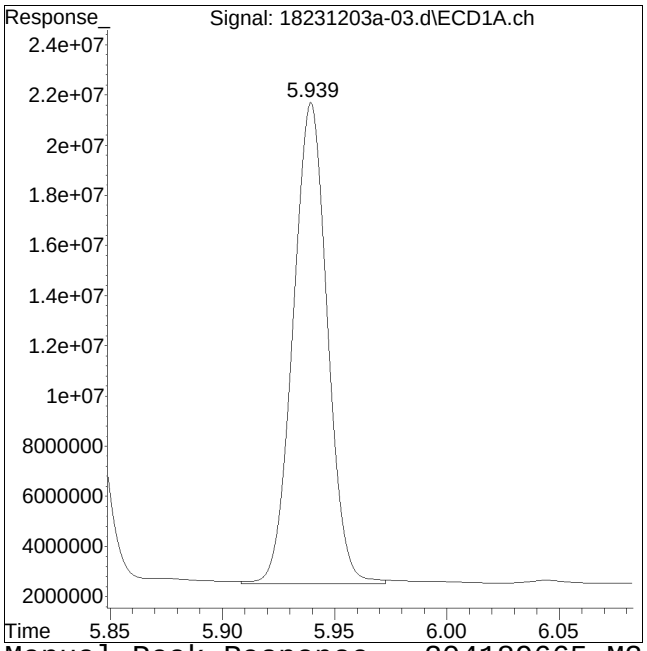
Original Peak Response = 140152326 Manual Peak Response = 138656527 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #25: Endosulfan Sulfate



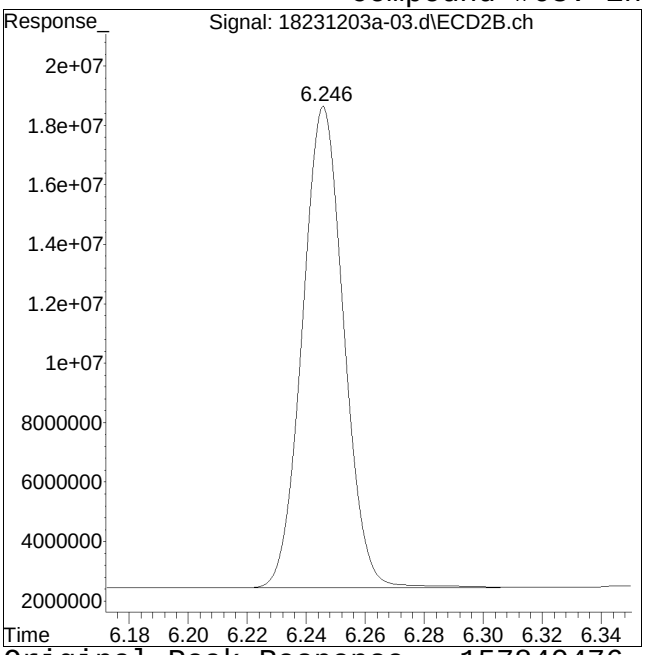


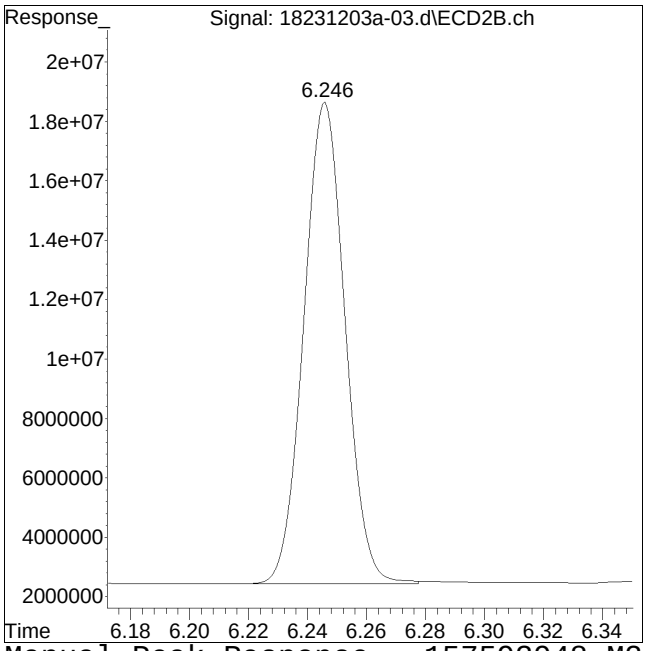
Original Peak Response = 206413066 Manual Peak Response = 204189665 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #63: Endosulfan Sulfate #2



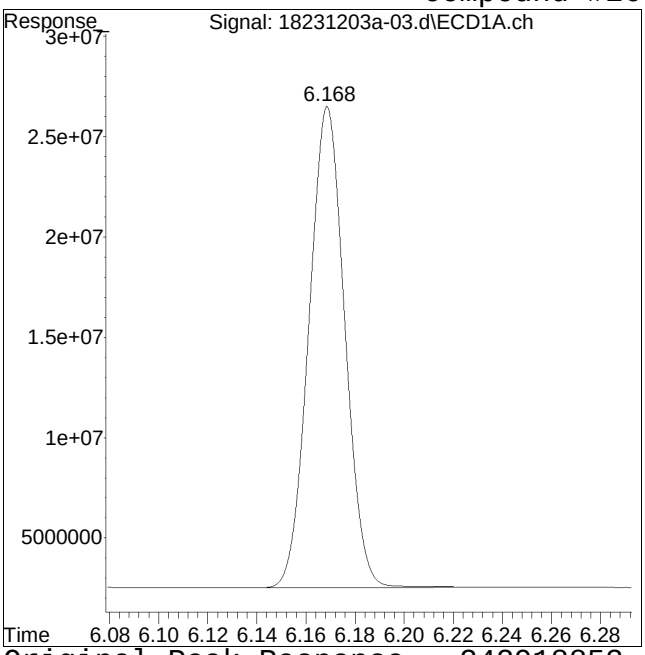


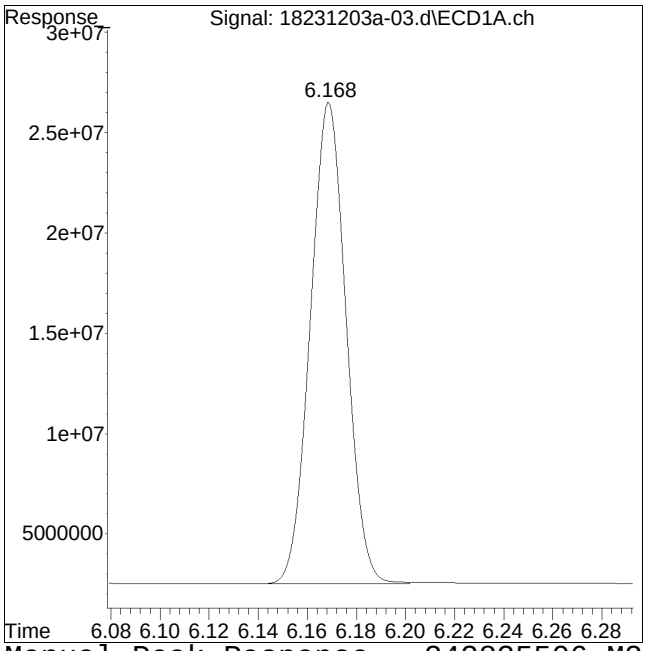
Original Peak Response = 157840476 Manual Peak Response = 157593948 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #26: Endrin Ketone



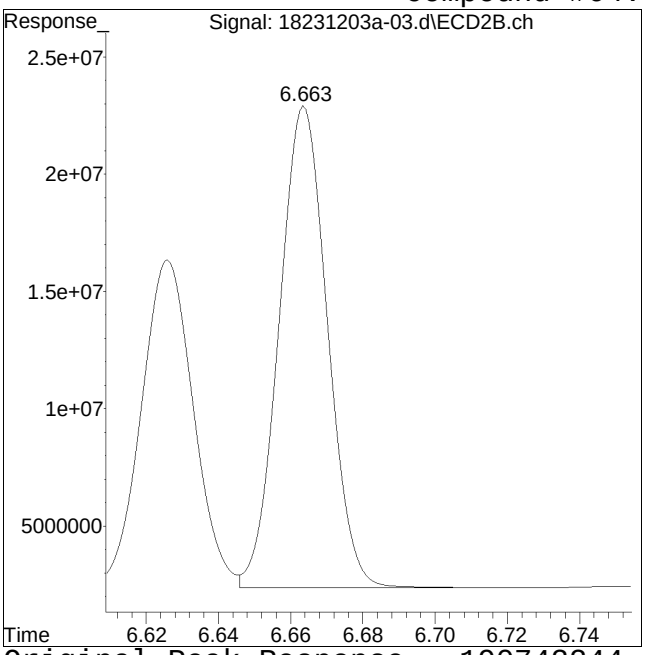


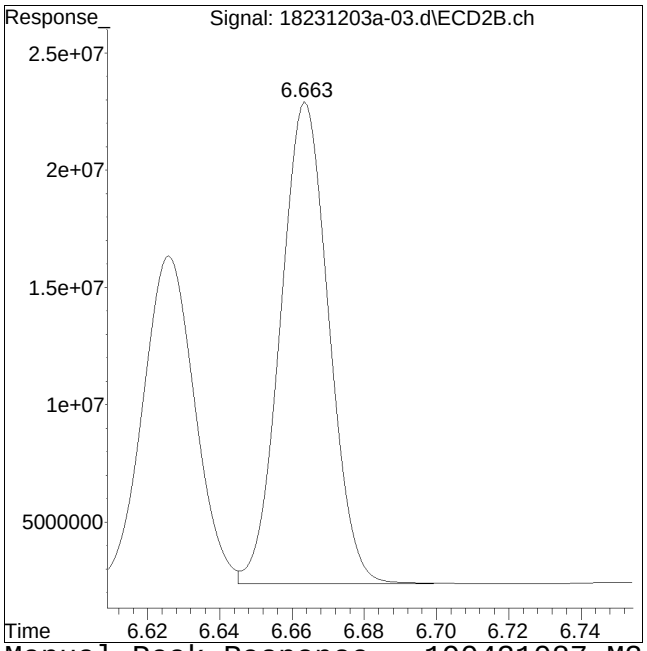
Original Peak Response = 242918853 Manual Peak Response = 242835506 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #64: Endrin Ketone #2



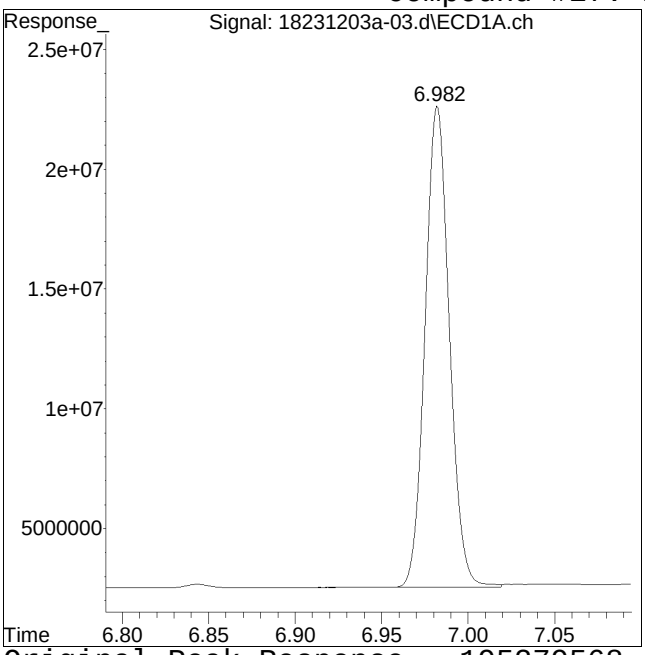


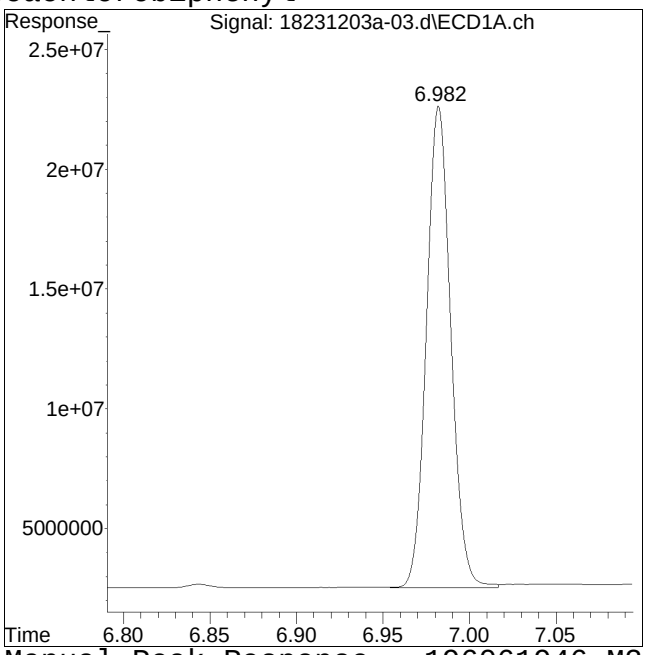
Original Peak Response = 190742244 Manual Peak Response = 190431087 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #27: Decachlorobiphenyl



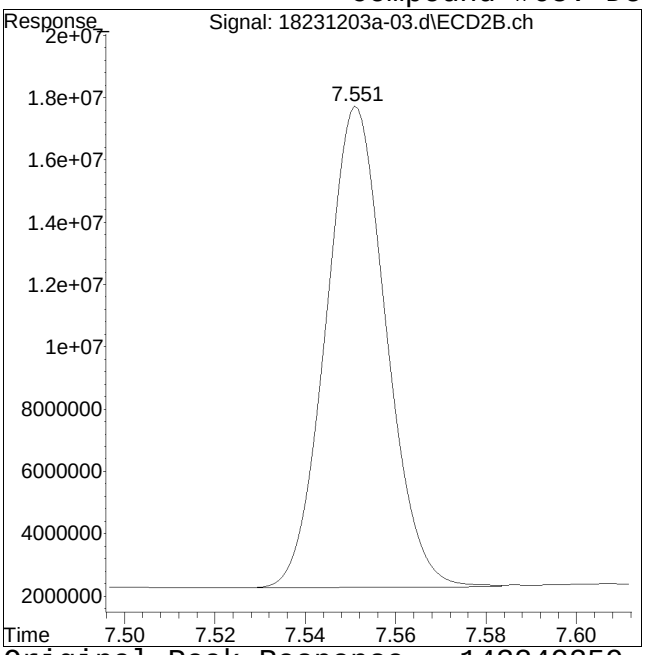


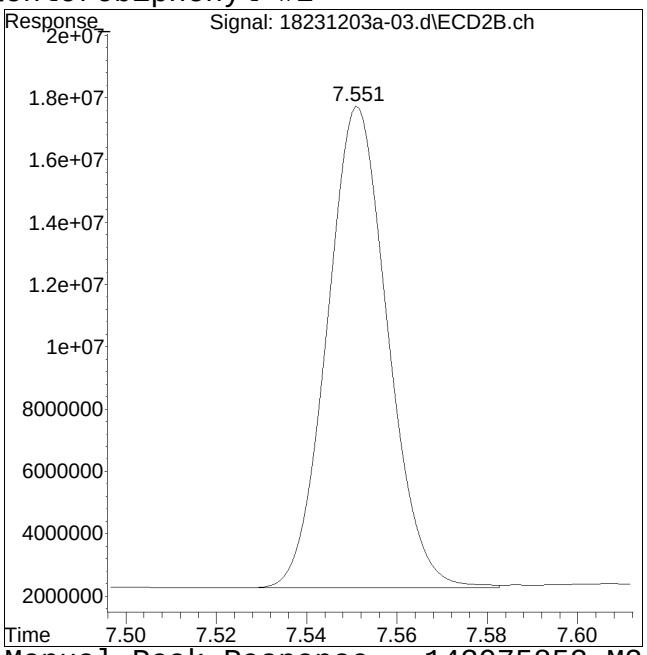
Original Peak Response = 195279568 Manual Peak Response = 196061946 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-03.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:01 am Instrument : Pest 18
Sample : wg1859122-1,42,, pest11375Quant Date : 12/3/2023 9:31 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 143249359 Manual Peak Response = 143975852 M2
M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 3 Dec 2023   9:13 am
Operator : PEST18:mmg
Sample   : wg1859122-2,42,, chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc   : wg1859122,,ical20463
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:37:02 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:36:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	146	0.00
29	l1	chlordane-1		*1000.000	788.038	21.2#	116	0.00
30	l1	chlordane-3		*1000.000	893.899	10.6	126	0.00
31	l1	chlordane-4		*1000.000	918.208	8.2	136	0.00
32	l1	chlordane-5		*1000.000	1013.683	-1.4	149	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	115	0.00
29	l1	chlordane-1		*1000.000	913.656	8.6	106	0.00
30	l1	chlordane-3		*1000.000	937.453	6.3	105	0.00
31	l1	chlordane-4		*1000.000	958.538	4.1	113	0.00
32	l1	chlordane-5		*1000.000	920.334	8.0	108	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.75#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-2.18#
3		Hexachlorobenzene		1.174	0.000	100.0#	0#	-2.43#
4		alpha-BHC		1.316	0.000	100.0#	0#	-2.54#
5		gamma-BHC (lindane)		1.215	0.000	100.0#	0#	-2.76#
6		beta-BHC		* 50.000	0.000	100.0#	0	-2.83#
7		delta-BHC		1.244	0.000	100.0#	0#	-2.96#
8		Heptachlor		1.195	0.000	100.0#	0#	-3.13#
9		Aldrin		1.142	0.000	100.0#	0#	-3.38#
10		Alachlor		0.203	0.000	100.0#	0#	-3.52#
11		Chlorpyrifos		0.610	0.000	100.0#	0#	-3.62#
12		Heptachlor Epoxide		1.116	0.000	100.0#	0#	-3.95#
13		gamma-Chlordane (trans)		1.128	0.000	100.0#	0#	-4.08#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 3 Dec 2023   9:13 am
Operator : PEST18:mmg
Sample   : wg1859122-2,42,, chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc   : wg1859122,,ical20463
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:37:02 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:36:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.194	0.000	100.0#	0#	-4.21#
15		4,4'-DDE		1.124	0.000	100.0#	0#	-4.32#
16		Endosulfan I		1.059	0.000	100.0#	0#	-4.35#
17		Dieldrin	*	50.000	0.000	100.0#	0	-4.61#
18		Endrin		1.154	0.000	100.0#	0#	-4.87#
19		4,4'-DDD		0.903	0.000	100.0#	0#	-4.99#
20		Endosulfan II		1.017	0.000	100.0#	0#	-5.12#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.29#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.54#
23		Methoxychlor		0.412	0.000	100.0#	0#	-5.79#
24		Mirex		0.948	0.000	100.0#	0#	-5.84#
25		Endosulfan Sulfate		0.950	0.000	100.0#	0#	-5.94#
26		Endrin Ketone		0.935	0.000	100.0#	0#	-6.17#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.98#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.75#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.11#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-5.23#
36	l2	toxaphene-3	*	2000.000	0.000	100.0#	0	-5.46#
37	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.84#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.80#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.057	0.000	100.0#	0#	-2.35#
3		Hexachlorobenzene		1.244	0.000	100.0#	0#	-2.69#
4		alpha-BHC		1.350	0.000	100.0#	0#	-2.79#
5		gamma-BHC (lindane)		1.263	0.000	100.0#	0#	-3.09#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.16#
7		delta-BHC		1.271	0.000	100.0#	0#	-3.43#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 3 Dec 2023   9:13 am
Operator : PEST18:mmg
Sample   : wg1859122-2,42,, chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc   : wg1859122,,ical20463
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:37:02 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:36:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.245	0.000	100.0#	0#	-3.49#
9		Aldrin		1.183	0.000	100.0#	0#	-3.81#
10		Alachlor		0.184	0.000	100.0#	0#	-3.70#
11		Chlorpyrifos		0.647	0.000	100.0#	0#	-4.06#
12		Heptachlor Epoxide		1.169	0.000	100.0#	0#	-4.42#
13		gamma-Chlordane (trans)		1.066	0.000	100.0#	0#	-4.64#
14		alpha-Chlordane (cis)		1.208	0.000	100.0#	0#	-4.82#
15		4,4'-DDE		1.171	0.000	100.0#	0#	-5.03#
16		Endosulfan I		1.099	0.000	100.0#	0#	-4.88#
17		Dieldrin		1.119	0.000	100.0#	0#	-5.19#
18		Endrin		1.129	0.000	100.0#	0#	-5.50#
19		4,4'-DDD		0.941	0.000	100.0#	0#	-5.63#
20		Endosulfan II		1.038	0.000	100.0#	0#	-5.70#
21		4,4'-DDT		0.822	0.000	100.0#	0#	-5.92#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.01#
23		Methoxychlor		0.462	0.000	100.0#	0#	-6.50#
24		Mirex	*	50.000	0.000	100.0#	0	-6.63#
25		Endosulfan Sulfate		0.991	0.000	100.0#	0#	-6.25#
26		Endrin Ketone		0.975	0.000	100.0#	0#	-6.66#
27	s	Decachlorobiphenyl		0.992	0.000	100.0#	0#	-7.55#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.80#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.69#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-5.78#
36	l2	toxaphene-3	*	2000.000	0.000	100.0#	0	-6.02#
37	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-6.44#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 9:13 am
Operator : PEST18:mmg
Sample : wg1859122-2,42,, chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc : wg1859122,,ical20463
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:37:02 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:36:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.750	1.797	127.3E6	88593395	25.000M2	25.000M2
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 9:13 am
Operator : PEST18:mmg
Sample : wg1859122-2,42,, chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc : wg1859122,,ical20463
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:37:02 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:36:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.131	3.350	236.7E6	117.2E6	788.038M2	913.656M2
30)	l1	chlordane-3	3.503	3.962	183.0E6	120.1E6	893.899M2	937.453M2
31)	l1	chlordane-4	4.075	4.642	647.8E6	452.9E6	918.208M2	958.538M4
32)	l1	chlordane-5	4.202	4.817	1097.8E6	350.5E6	1013.683M2	920.334M2
		Sum chlordane-1			2165.3E6	1040.8E6	N.D.	N.D. D
		Average chlordane-1					903.457	932.495
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

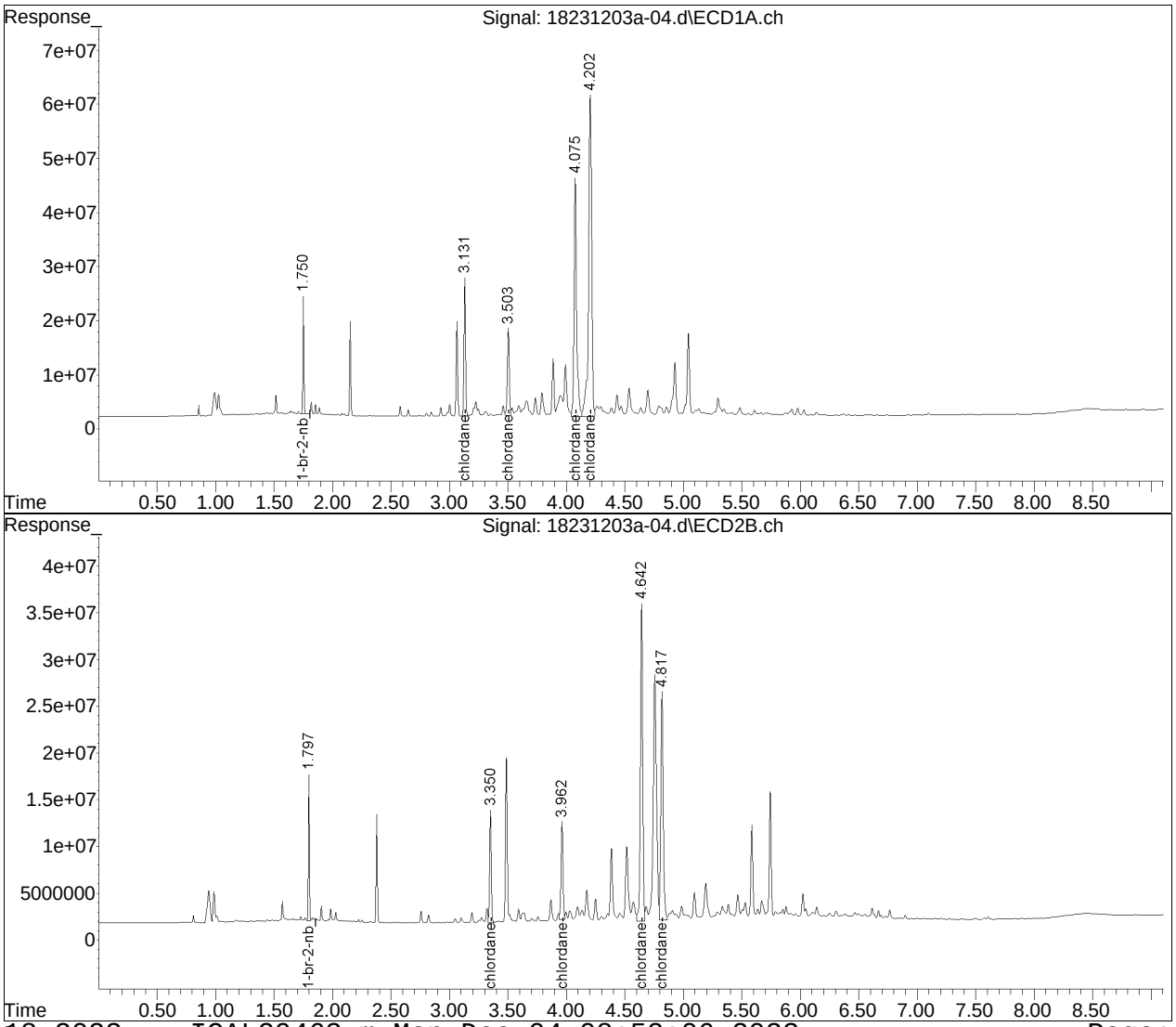
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 9:13 am
Operator : PEST18:mmg
Sample : wg1859122-2,42,, chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc : wg1859122,,ical20463
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:37:02 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:36:43 2023
Response via : Initial Calibration
Integrator: ChemStation

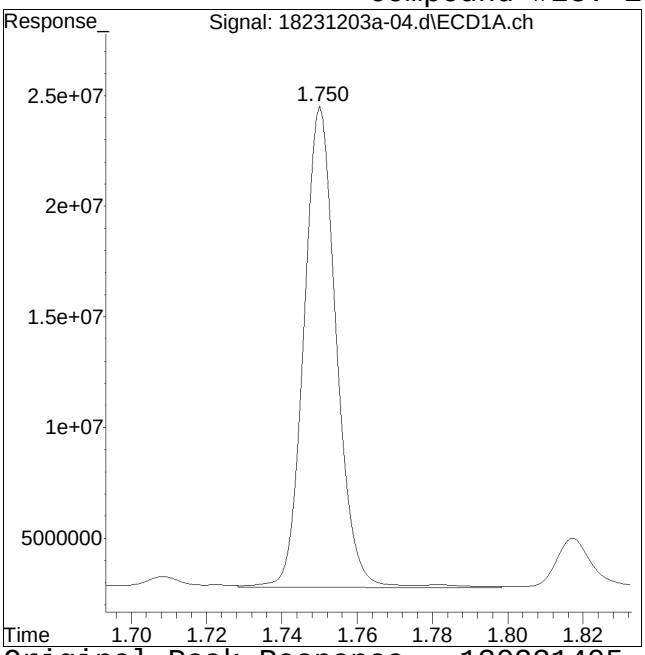
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

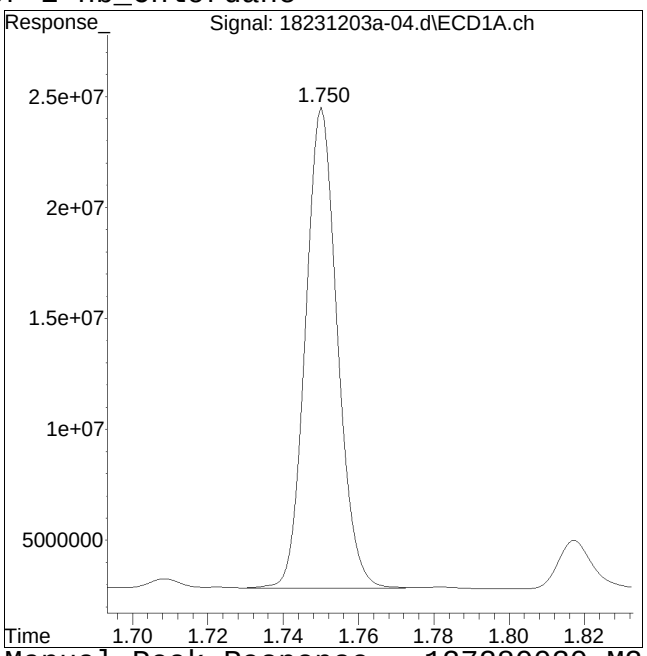


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-04.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:13 am Instrument : Pest 18
Sample : wg1859122-2,42,, chlor1130Quant Date : 12/3/2023 9:36 am

Compound #28: 1-br-2-nb_Chlordane



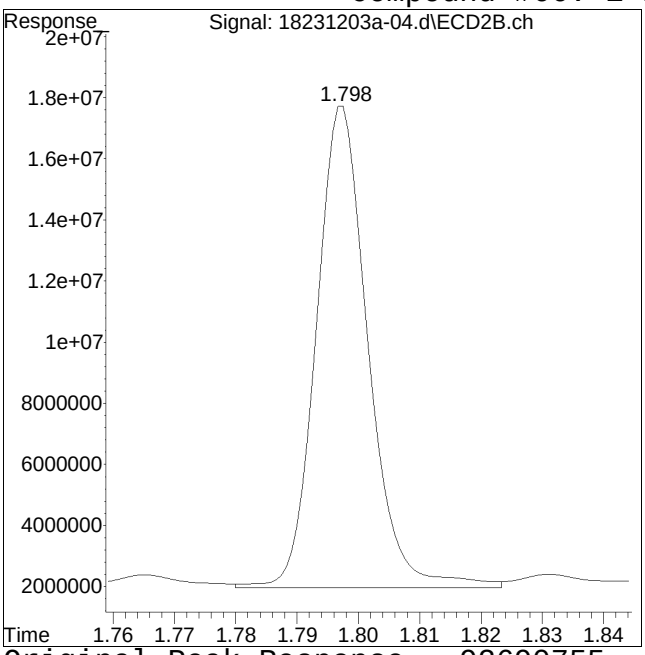


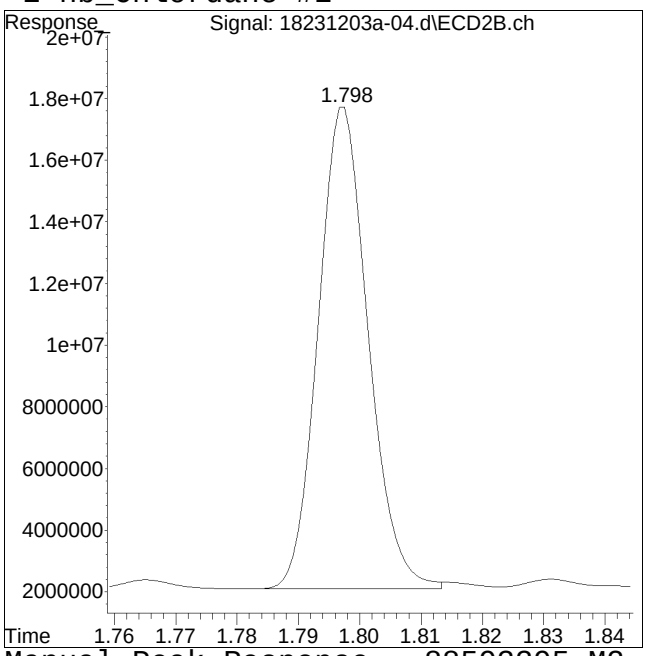
Original Peak Response = 130331405 Manual Peak Response = 127280030 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-04.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:13 am Instrument : Pest 18
Sample : wg1859122-2,42,, chlor1130Quant Date : 12/3/2023 9:36 am

Compound #66: 1-br-2-nb_Chlordane #2



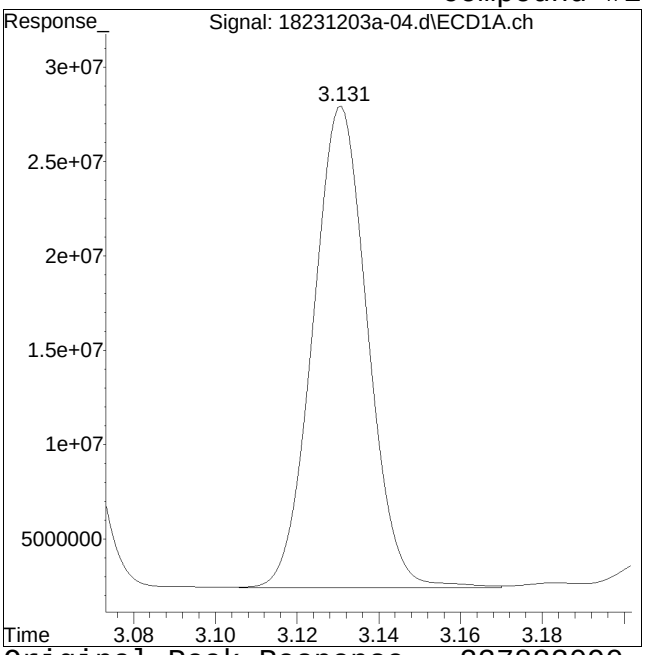


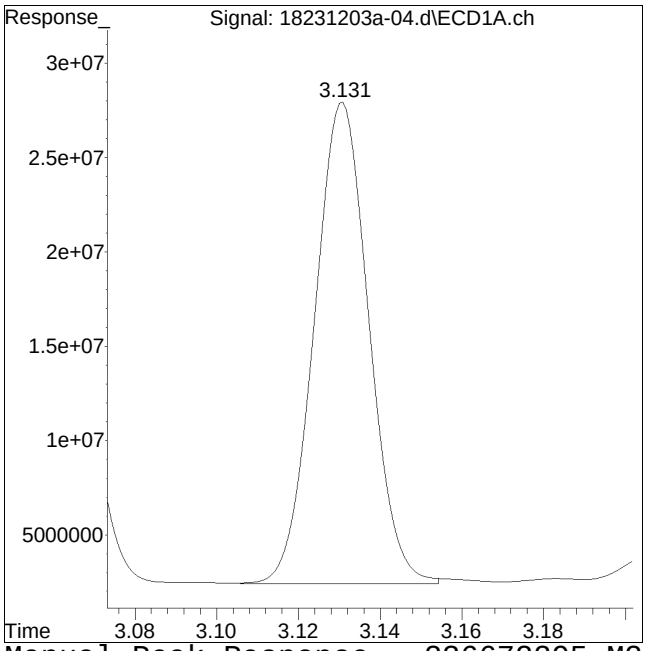
Original Peak Response = 92690755 Manual Peak Response = 88593395 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-04.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:13 am Instrument : Pest 18
Sample : wg1859122-2,42,, chlor1130Quant Date : 12/3/2023 9:36 am

Compound #29: chlordane-1



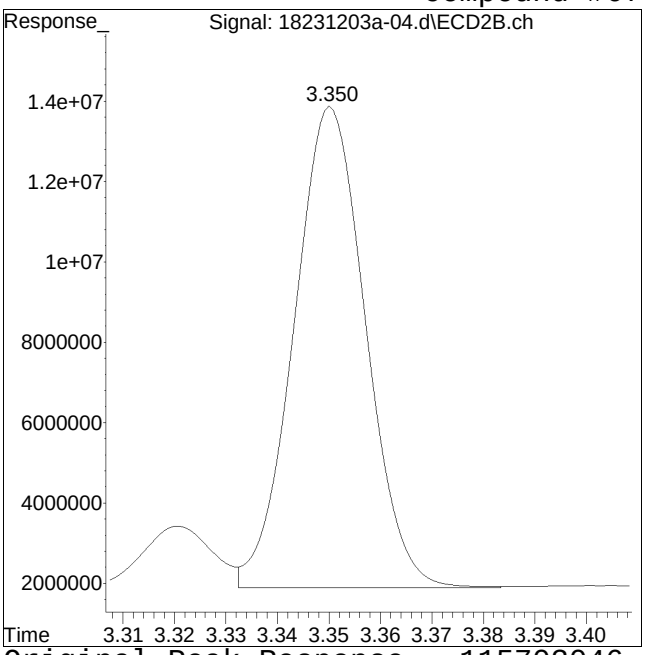


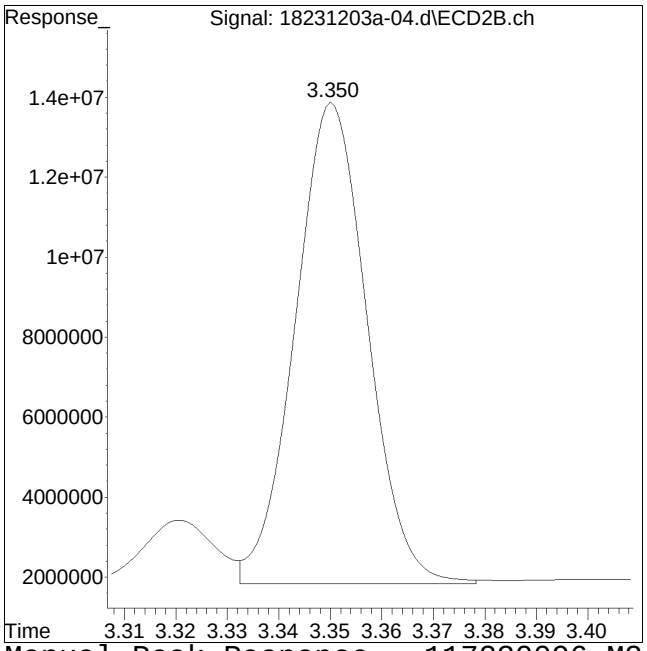
Original Peak Response = 237833090 Manual Peak Response = 236672295 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-04.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:13 am Instrument : Pest 18
Sample : wg1859122-2,42,, chlor1130Quant Date : 12/3/2023 9:36 am

Compound #67: chlordane-1 #2



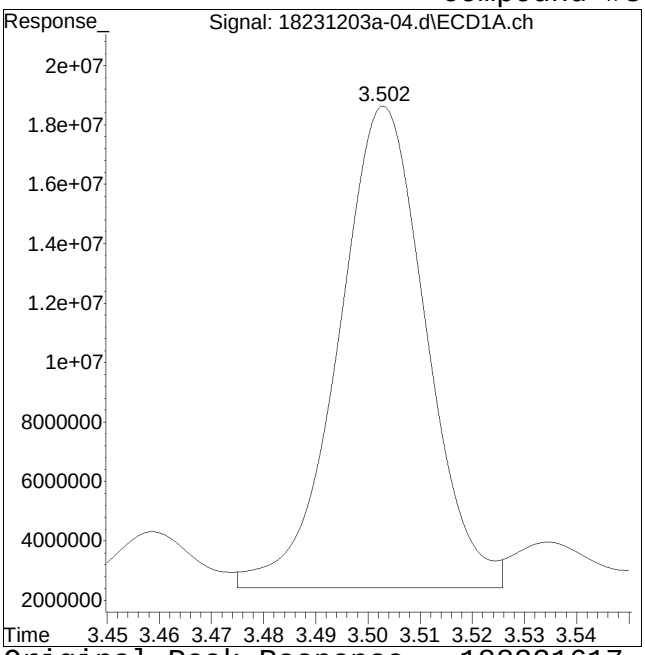


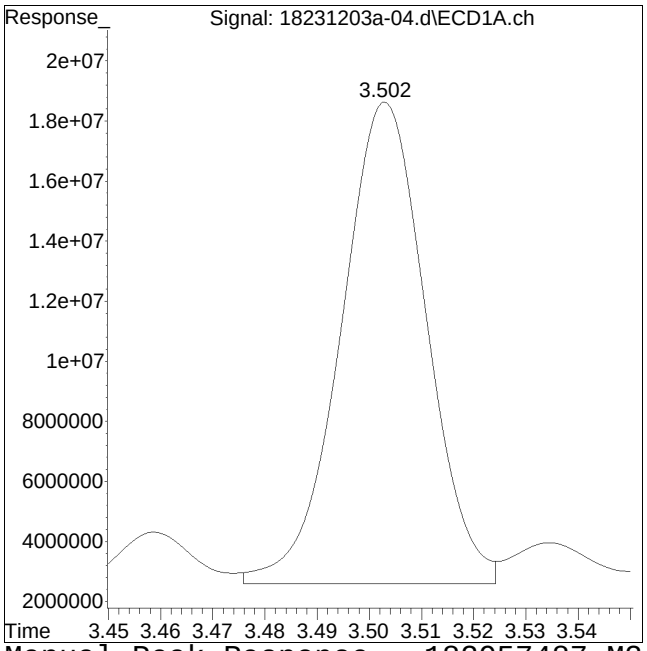
Original Peak Response = 115703046 Manual Peak Response = 117230096 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-04.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:13 am Instrument : Pest 18
Sample : wg1859122-2,42,, chlor1130Quant Date : 12/3/2023 9:36 am

Compound #30: chlordane-3



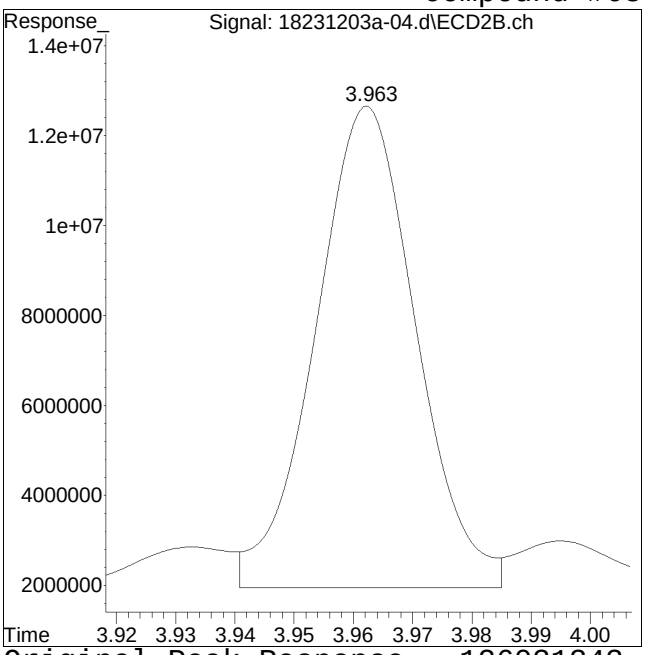


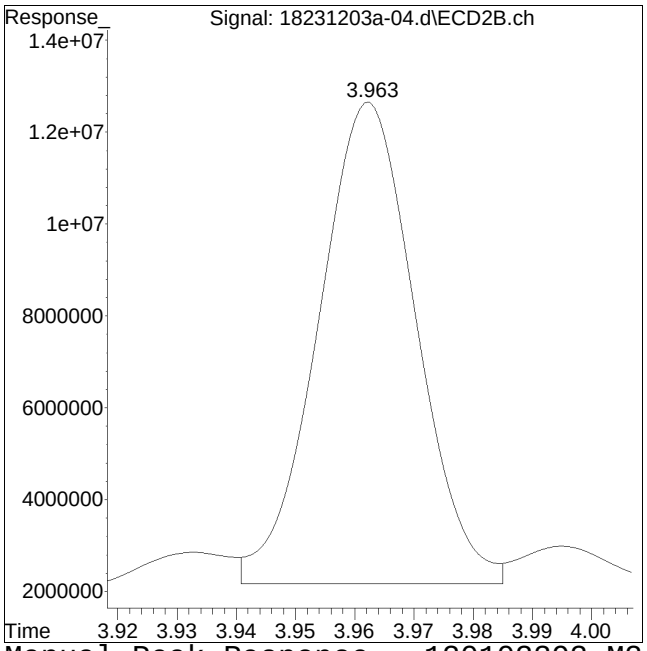
Original Peak Response = 188321617 Manual Peak Response = 182957487 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-04.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:13 am Instrument : Pest 18
Sample : wg1859122-2,42,, chlor1130Quant Date : 12/3/2023 9:36 am

Compound #68: chlordane-3 #2



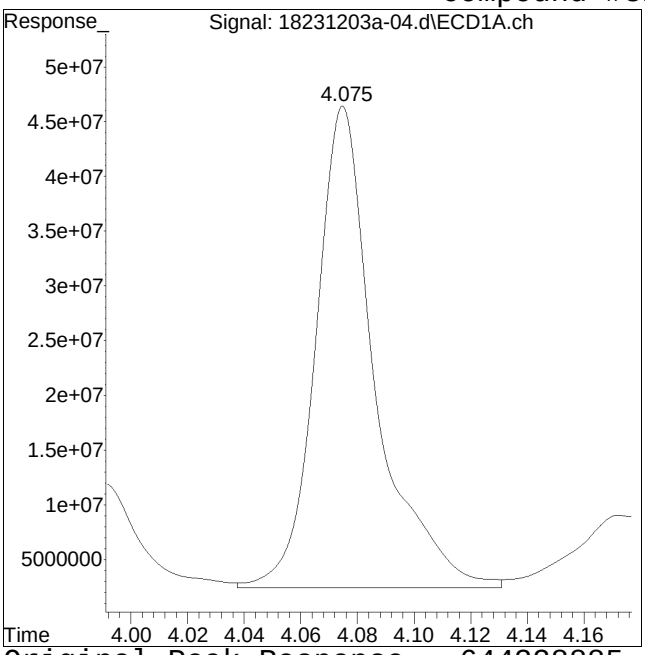


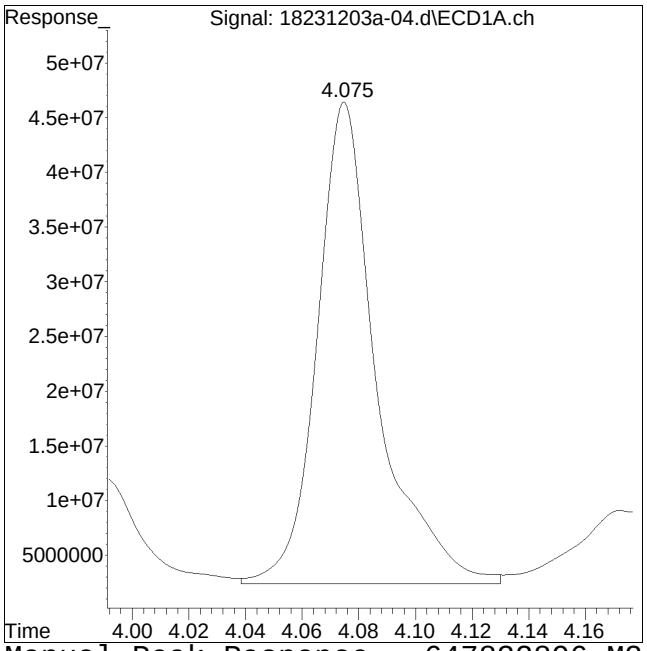
Original Peak Response = 126031343 Manual Peak Response = 120103393 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-04.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:13 am Instrument : Pest 18
Sample : wg1859122-2,42,, chlor1130Quant Date : 12/3/2023 9:36 am

Compound #31: chlordane-4



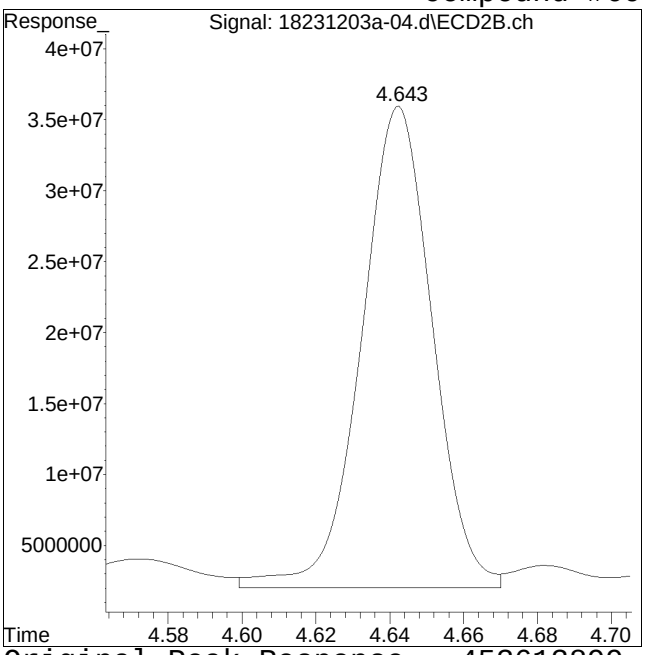


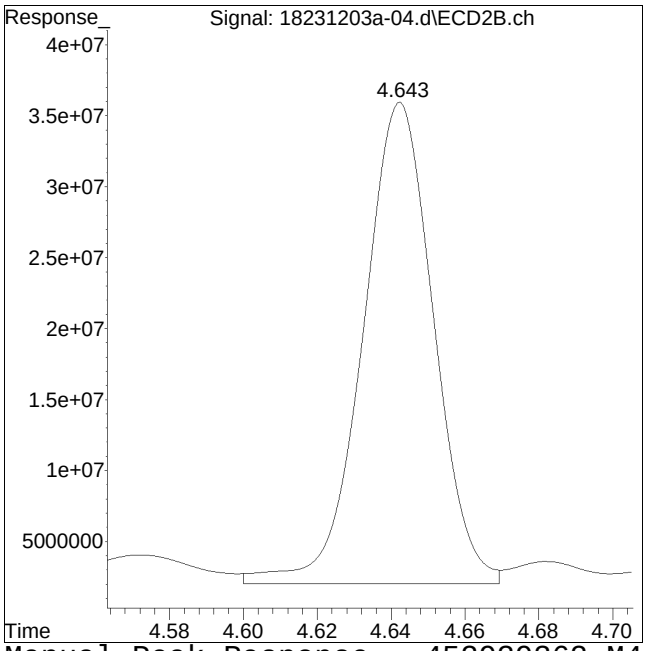
Original Peak Response = 644328885 Manual Peak Response = 647832896 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-04.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:13 am Instrument : Pest 18
Sample : wg1859122-2,42,, chlor1130Quant Date : 12/3/2023 9:36 am

Compound #69: chlordane-4 #2



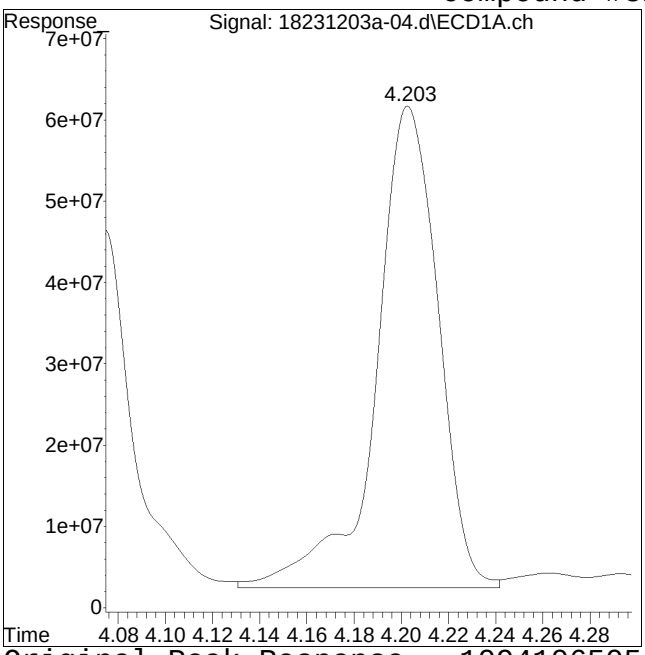


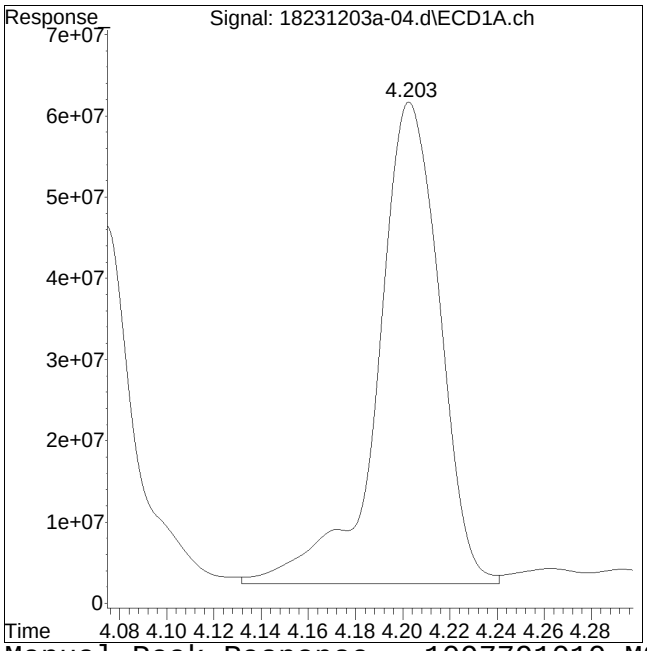
Original Peak Response = 453613899 Manual Peak Response = 452939362 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-04.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:13 am Instrument : Pest 18
Sample : wg1859122-2,42,, chlor1130Quant Date : 12/3/2023 9:36 am

Compound #32: chlordane-5



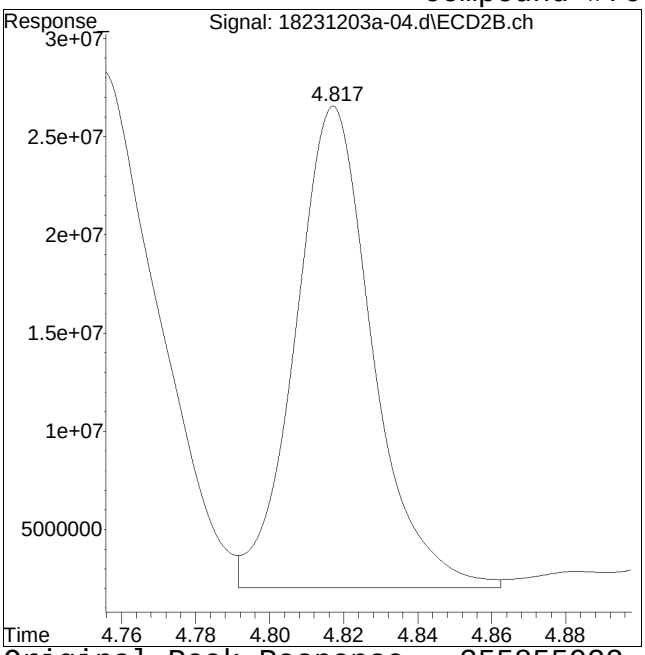


Original Peak Response = 1094106505 Manual Peak Response = 1097791010 M2
M2 = Peak not found by automatic integration algorithm.

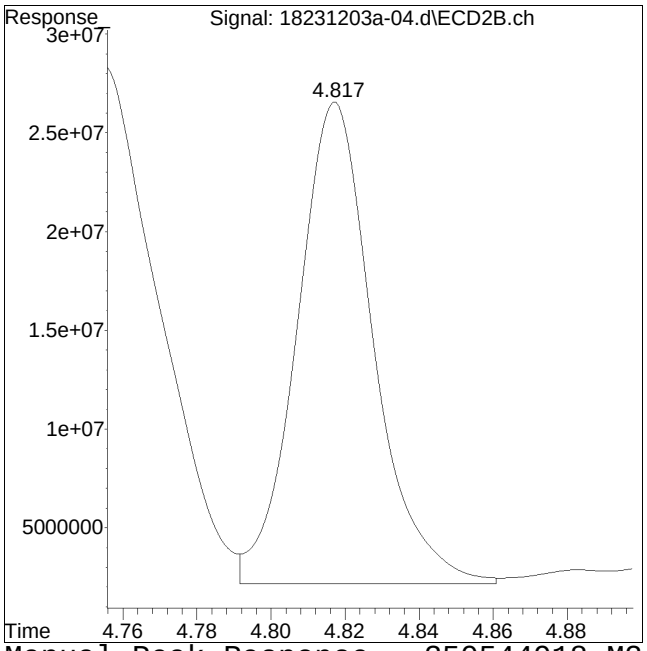
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-04.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:13 am Instrument : Pest 18
Sample : wg1859122-2,42,, chlor1130Quant Date : 12/3/2023 9:36 am

Compound #70: chlordane-5 #2



Original Peak Response = 355855922



Manual Peak Response = 350544918 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 3 Dec 2023   9:24 am
Operator : PEST18:mmg
Sample   : wg1859122-3,42,, tox11371 (Sig #1); tox11371 (Sig #2)
Misc   : wg1859122,,ical20463
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 12:20:11 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	155	0.00
34	l2	toxaphene-1		*2000.000	1958.375	2.1	145	0.00
35	l2	toxaphene-2		*2000.000	1928.119	3.6	146	0.00
36	l2	toxaphene-3		*2000.000	1908.961	4.6	145	0.00
37	l2	toxaphene-4		*2000.000	2010.733	-0.5	155	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	125	0.00
34	l2	toxaphene-1		*2000.000	2141.885	-7.1	131	0.00
35	l2	toxaphene-2		*2000.000	2189.322	-9.5	135	0.00
36	l2	toxaphene-3		*2000.000	2267.490	-13.4	140	0.00
37	l2	toxaphene-4		*2000.000	2396.358	-19.8	150	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.75#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-2.18#
3		Hexachlorobenzene		1.174	0.000	100.0#	0#	-2.43#
4		alpha-BHC		1.316	0.000	100.0#	0#	-2.54#
5		gamma-BHC (lindane)		1.215	0.000	100.0#	0#	-2.76#
6		beta-BHC		* 50.000	0.000	100.0#	0	-2.83#
7		delta-BHC		1.244	0.000	100.0#	0#	-2.96#
8		Heptachlor		1.195	0.000	100.0#	0#	-3.13#
9		Aldrin		1.142	0.000	100.0#	0#	-3.38#
10		Alachlor		0.203	0.000	100.0#	0#	-3.52#
11		Chlorpyrifos		0.610	0.000	100.0#	0#	-3.62#
12		Heptachlor Epoxide		1.116	0.000	100.0#	0#	-3.95#
13		gamma-Chlordane (trans)		1.128	0.000	100.0#	0#	-4.08#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 3 Dec 2023   9:24 am
Operator : PEST18:mmg
Sample   : wg1859122-3,42,, tox11371 (Sig #1); tox11371 (Sig #2)
Misc   : wg1859122,,ical20463
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 12:20:11 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.194	0.000	100.0#	0#	-4.21#
15		4,4'-DDE		1.124	0.000	100.0#	0#	-4.32#
16		Endosulfan I		1.059	0.000	100.0#	0#	-4.35#
17		Dieldrin	*	50.000	0.000	100.0#	0	-4.61#
18		Endrin		1.154	0.000	100.0#	0#	-4.87#
19		4,4'-DDD		0.903	0.000	100.0#	0#	-4.99#
20		Endosulfan II		1.017	0.000	100.0#	0#	-5.12#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.29#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.54#
23		Methoxychlor		0.412	0.000	100.0#	0#	-5.79#
24		Mirex		0.948	0.000	100.0#	0#	-5.84#
25		Endosulfan Sulfate		0.950	0.000	100.0#	0#	-5.94#
26		Endrin Ketone		0.935	0.000	100.0#	0#	-6.17#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.98#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.75#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.13#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.50#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.07#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.20#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.80#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.057	0.000	100.0#	0#	-2.35#
3		Hexachlorobenzene		1.244	0.000	100.0#	0#	-2.69#
4		alpha-BHC		1.350	0.000	100.0#	0#	-2.79#
5		gamma-BHC (lindane)		1.263	0.000	100.0#	0#	-3.09#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.16#
7		delta-BHC		1.271	0.000	100.0#	0#	-3.43#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 3 Dec 2023   9:24 am
Operator : PEST18:mmg
Sample   : wg1859122-3,42,, tox11371 (Sig #1); tox11371 (Sig #2)
Misc   : wg1859122,,ical20463
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 12:20:11 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.245	0.000	100.0#	0#	-3.49#
9		Aldrin		1.183	0.000	100.0#	0#	-3.81#
10		Alachlor		0.184	0.000	100.0#	0#	-3.70#
11		Chlorpyrifos		0.647	0.000	100.0#	0#	-4.06#
12		Heptachlor Epoxide		1.169	0.000	100.0#	0#	-4.42#
13		gamma-Chlordane (trans)		1.066	0.000	100.0#	0#	-4.64#
14		alpha-Chlordane (cis)		1.208	0.000	100.0#	0#	-4.82#
15		4,4'-DDE		1.171	0.000	100.0#	0#	-5.03#
16		Endosulfan I		1.099	0.000	100.0#	0#	-4.88#
17		Dieldrin		1.119	0.000	100.0#	0#	-5.19#
18		Endrin		1.129	0.000	100.0#	0#	-5.50#
19		4,4'-DDD		0.941	0.000	100.0#	0#	-5.63#
20		Endosulfan II		1.038	0.000	100.0#	0#	-5.70#
21		4,4'-DDT		0.822	0.000	100.0#	0#	-5.92#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.01#
23		Methoxychlor		0.462	0.000	100.0#	0#	-6.50#
24		Mirex	*	50.000	0.000	100.0#	0	-6.63#
25		Endosulfan Sulfate		0.991	0.000	100.0#	0#	-6.25#
26		Endrin Ketone		0.975	0.000	100.0#	0#	-6.66#
27	s	Decachlorobiphenyl		0.992	0.000	100.0#	0#	-7.55#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.80#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.35#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.96#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.64#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.82#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 9:24 am
Operator : PEST18:mmg
Sample : wg1859122-3,42,, tox11371 (Sig #1); tox11371 (Sig #2)
Misc : wg1859122,,ical20463
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 12:20:11 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.750	1.797	136.2E6	94640625	25.000M2	25.000M2
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 9:24 am
Operator : PEST18:mmg
Sample : wg1859122-3,42,, tox11371 (Sig #1); tox11371 (Sig #2)
Misc : wg1859122,,ical20463
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 12:20:11 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.105	5.689	377.8E6	238.5E6	1958.375M3	2141.885M2
35) l2	toxaphene-2	5.232	5.780	408.8E6	378.8E6	1928.119M4	2189.322M2
36) l2	toxaphene-3	5.462	6.018	397.3E6	284.6E6	1908.961M2	2267.490M2
37) l2	toxaphene-4	5.843	6.435	350.3E6	251.5E6	2010.733M4	2396.358M4
Sum	toxaphene-1			1534.2E6	1153.4E6	7806.187	8995.054
Average	toxaphene-1					1951.547	2248.764

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			1534.2E6	1153.4E6	7806.187	8995.054
Average	toxaphene-1					1951.547	2248.764

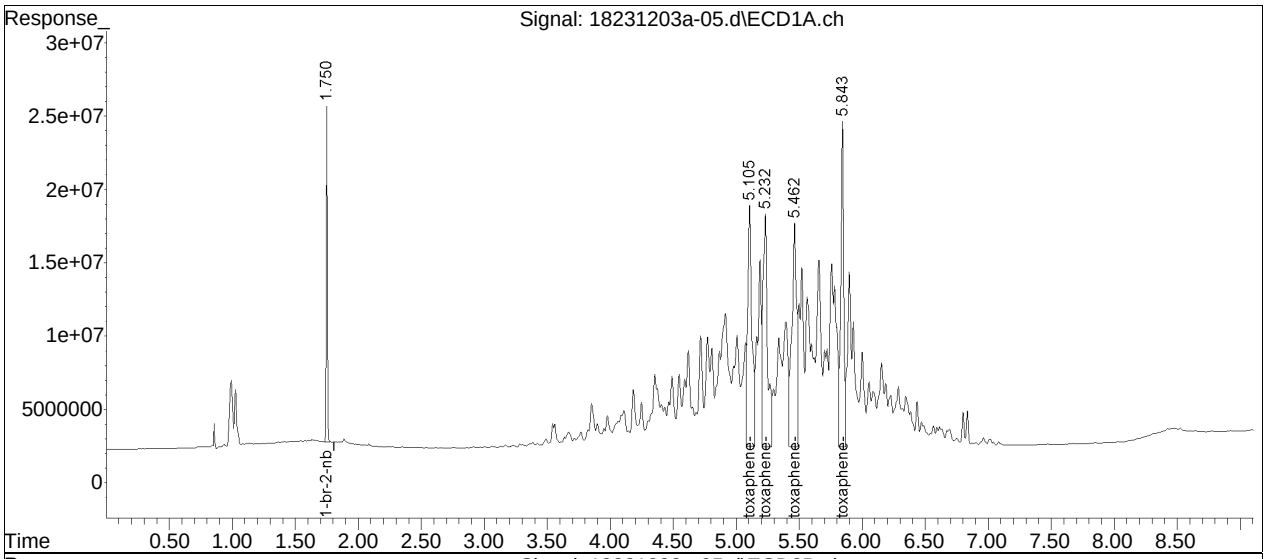
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

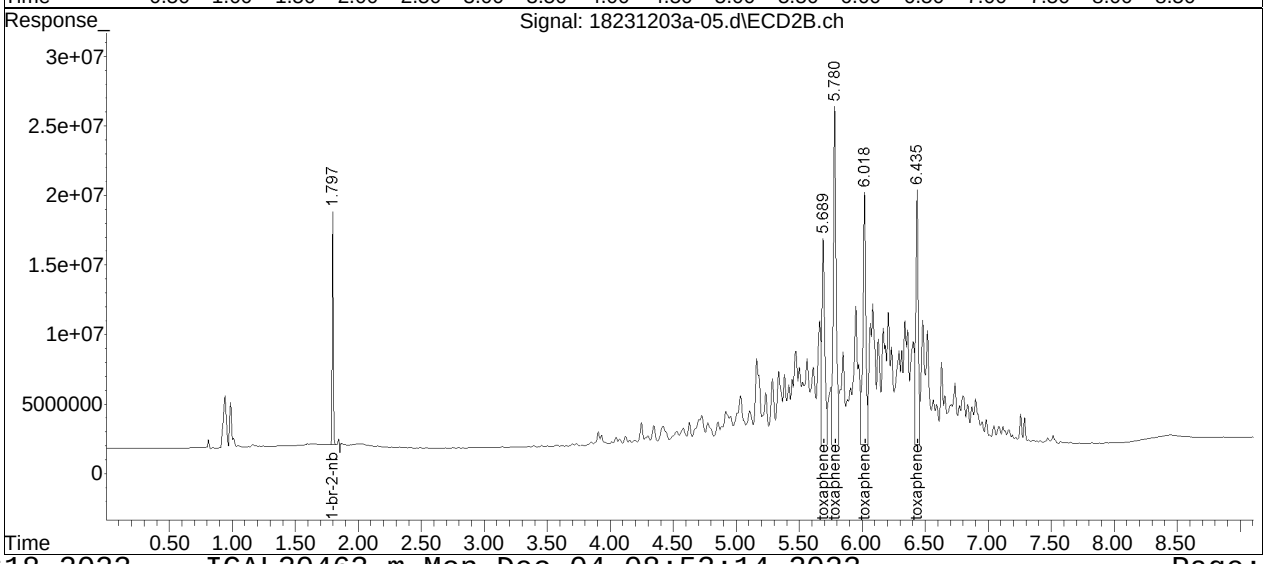
Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 9:24 am
Operator : PEST18:mmg
Sample : wg1859122-3,42,, tox11371 (Sig #1); tox11371 (Sig #2)
Misc : wg1859122,,ical20463
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 12:20:11 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:54 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

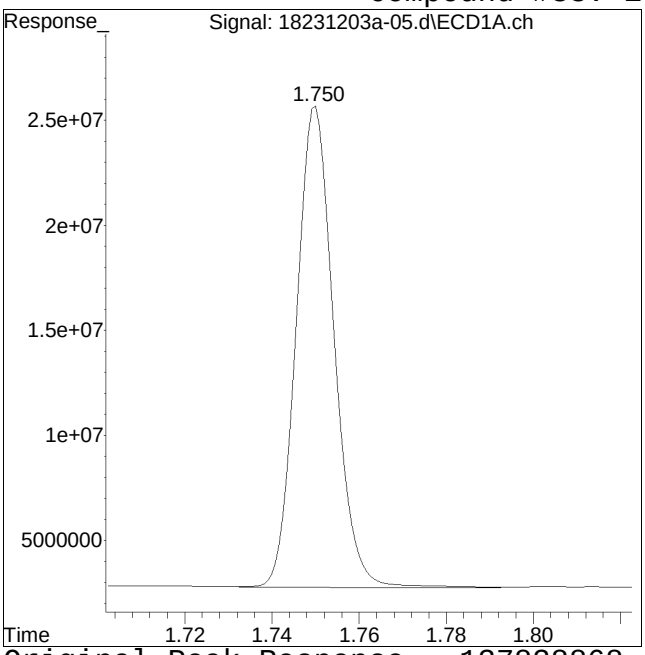


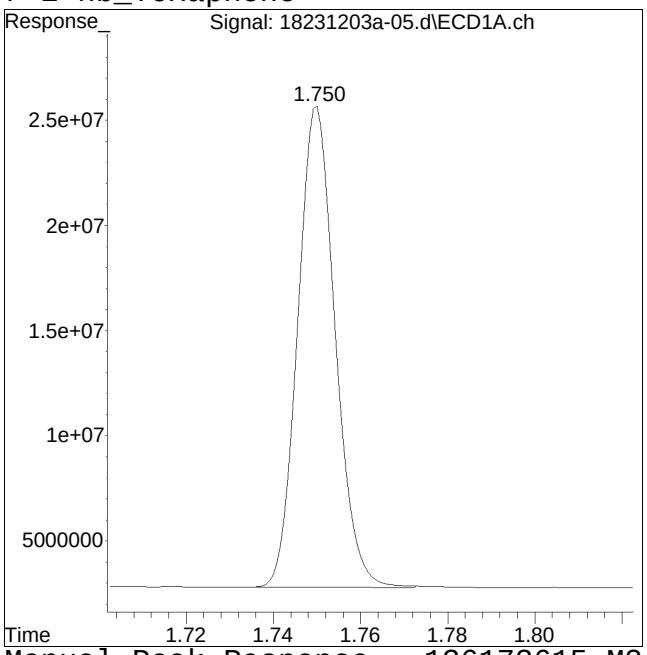


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-05.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:24 am Instrument : Pest 18
Sample : wg1859122-3,42,, tox11371 Quant Date : 12/3/2023 12:20 pm

Compound #33: 1-br-2-nb_Toxaphene



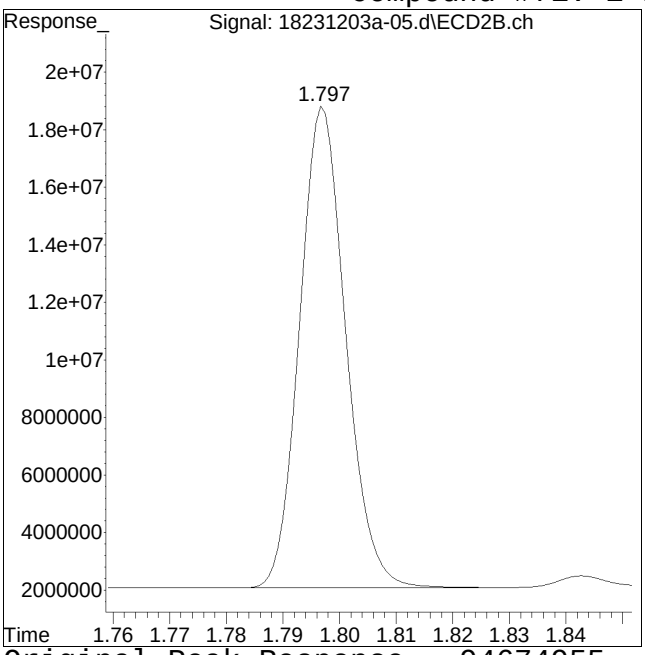


Original Peak Response = 137838868 Manual Peak Response = 136173615 M2
M2 = Peak not found by automatic integration algorithm.

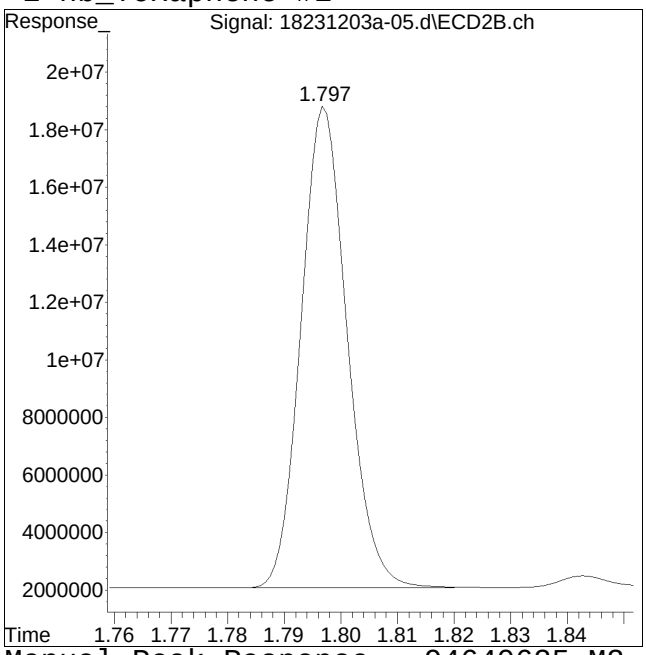
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-05.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:24 am Instrument : Pest 18
Sample : wg1859122-3,42,, tox11371 Quant Date : 12/3/2023 12:20 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 94674955



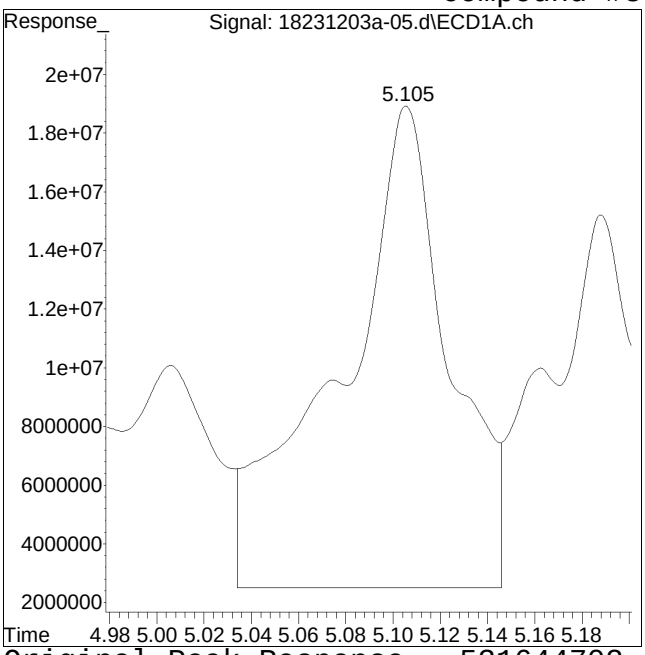
Manual Peak Response = 94640625 M2

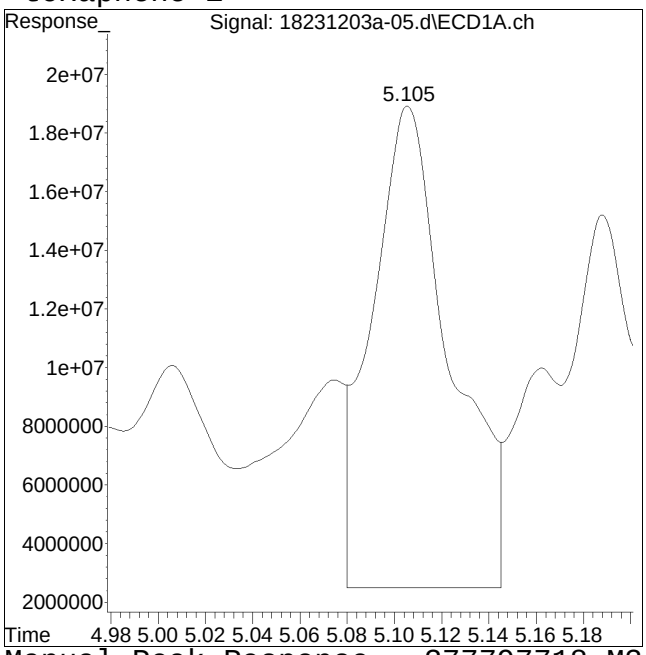
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-05.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:24 am Instrument : Pest 18
Sample : wg1859122-3,42,, tox11371 Quant Date : 12/3/2023 12:20 pm

Compound #34: toxaphene-1



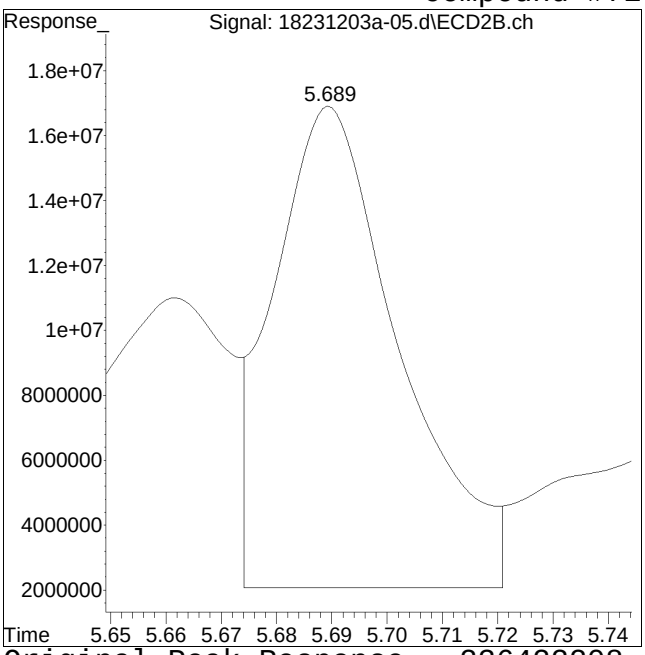


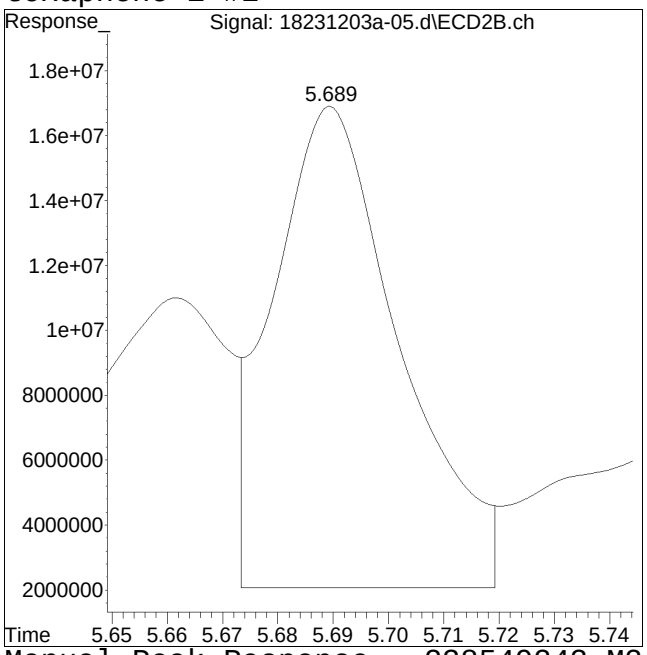
Original Peak Response = 531644702 Manual Peak Response = 377797718 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-05.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:24 am Instrument : Pest 18
Sample : wg1859122-3,42,, tox11371 Quant Date : 12/3/2023 12:20 pm

Compound #72: toxaphene-1 #2



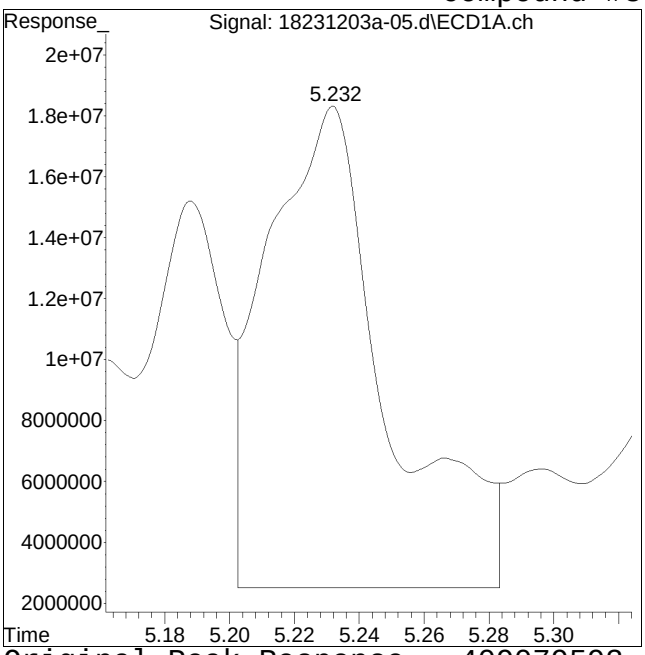


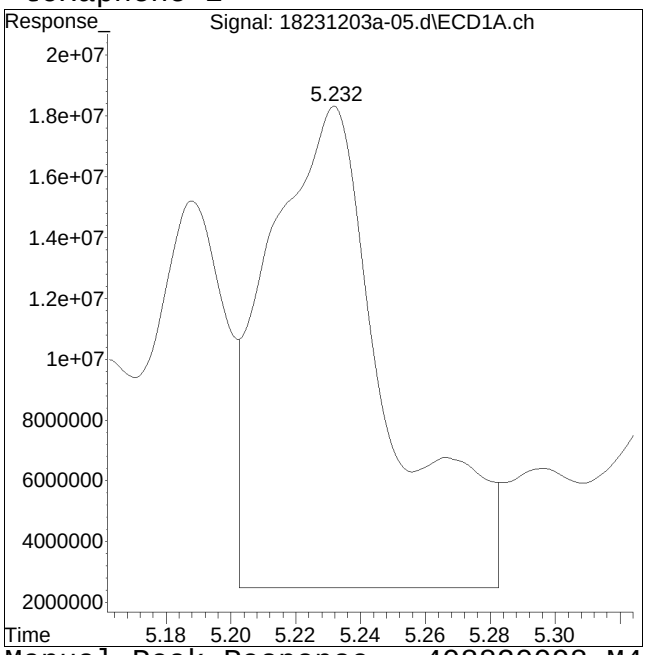
Original Peak Response = 236422208 Manual Peak Response = 238549243 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-05.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:24 am Instrument : Pest 18
Sample : wg1859122-3,42,, tox11371 Quant Date : 12/3/2023 12:20 pm

Compound #35: toxaphene-2



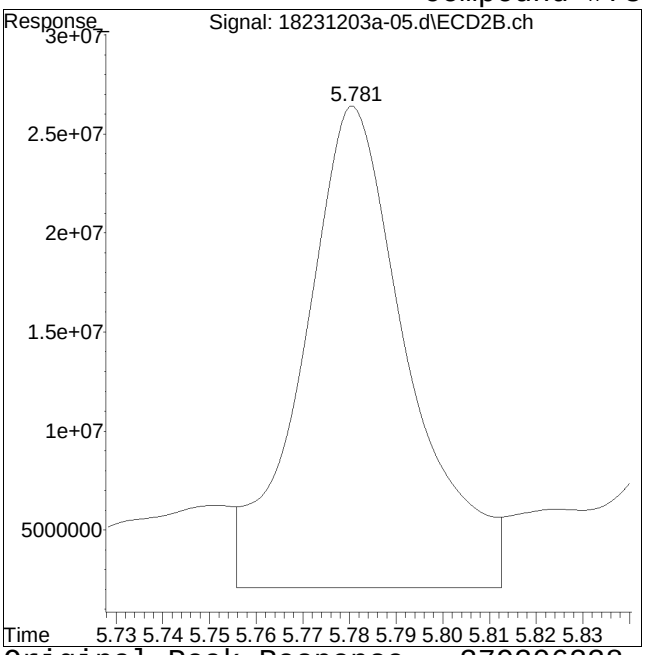


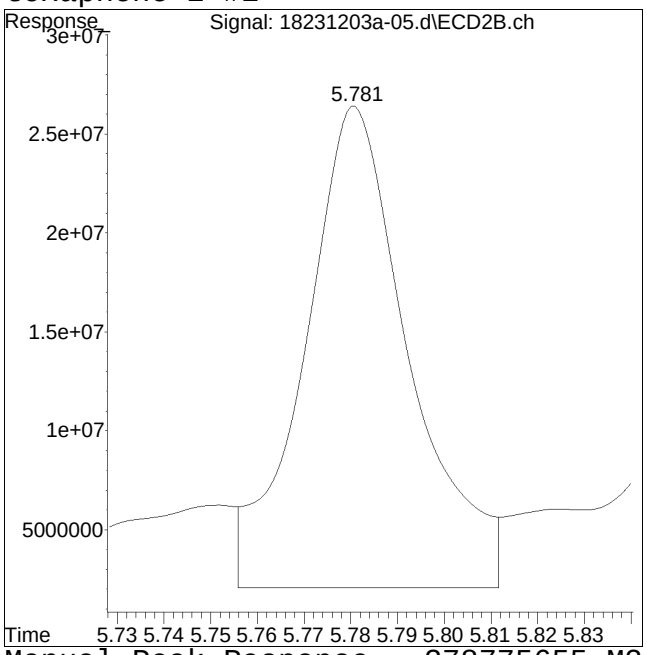
Original Peak Response = 409079593 Manual Peak Response = 408820098 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-05.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:24 am Instrument : Pest 18
Sample : wg1859122-3,42,, tox11371 Quant Date : 12/3/2023 12:20 pm

Compound #73: toxaphene-2 #2



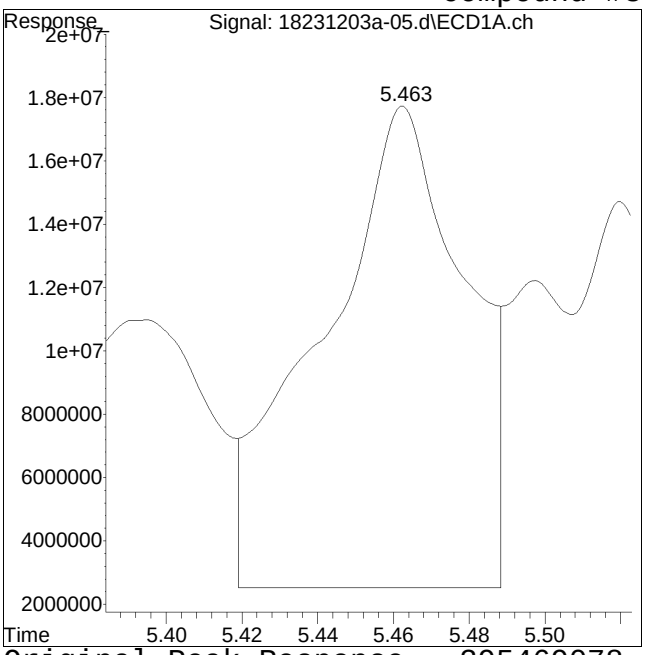


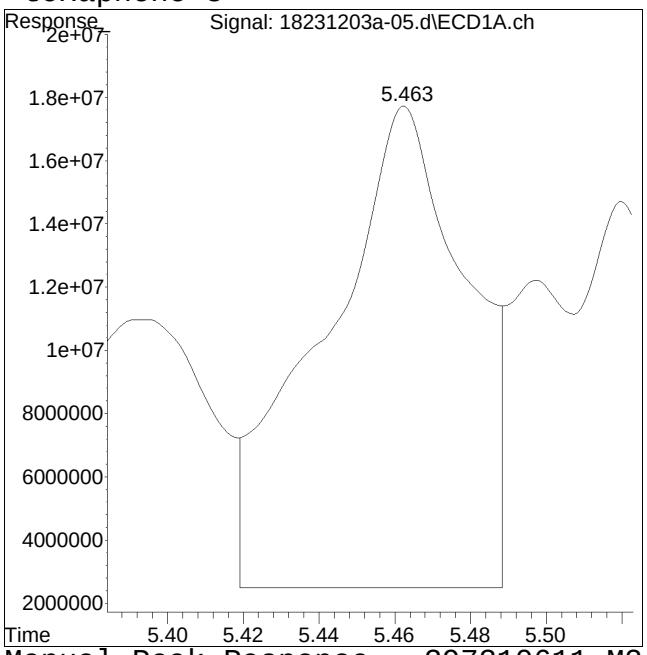
Original Peak Response = 379306338 Manual Peak Response = 378775655 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-05.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:24 am Instrument : Pest 18
Sample : wg1859122-3,42,, tox11371 Quant Date : 12/3/2023 12:20 pm

Compound #36: toxaphene-3



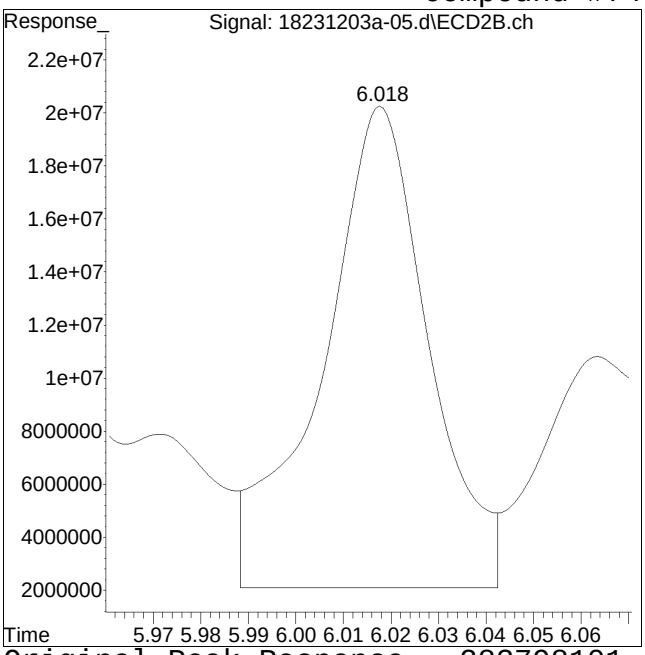


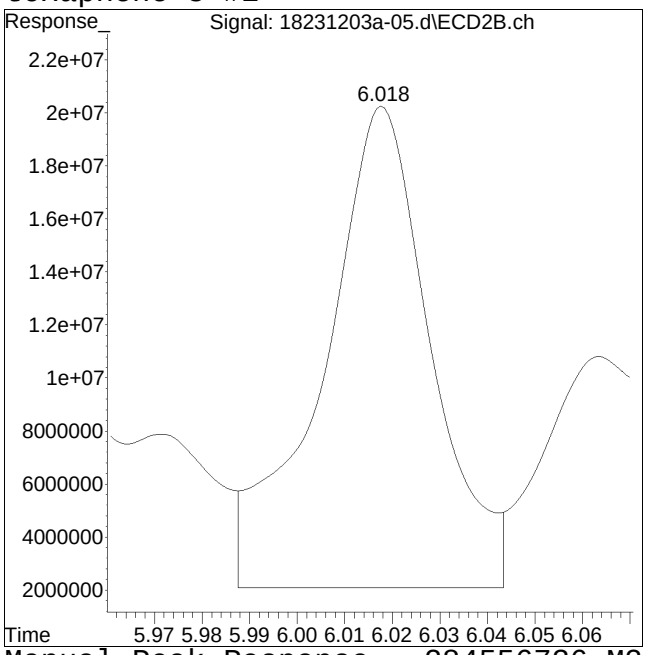
Original Peak Response = 395469078 Manual Peak Response = 397310611 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-05.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:24 am Instrument : Pest 18
Sample : wg1859122-3,42,, tox11371 Quant Date : 12/3/2023 12:20 pm

Compound #74: toxaphene-3 #2



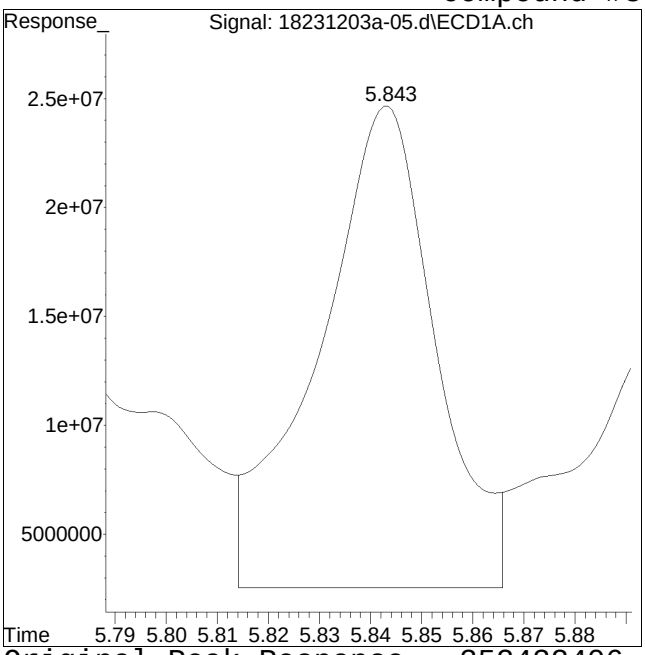


Original Peak Response = 283798101 Manual Peak Response = 284556736 M2
M2 = Peak not found by automatic integration algorithm.

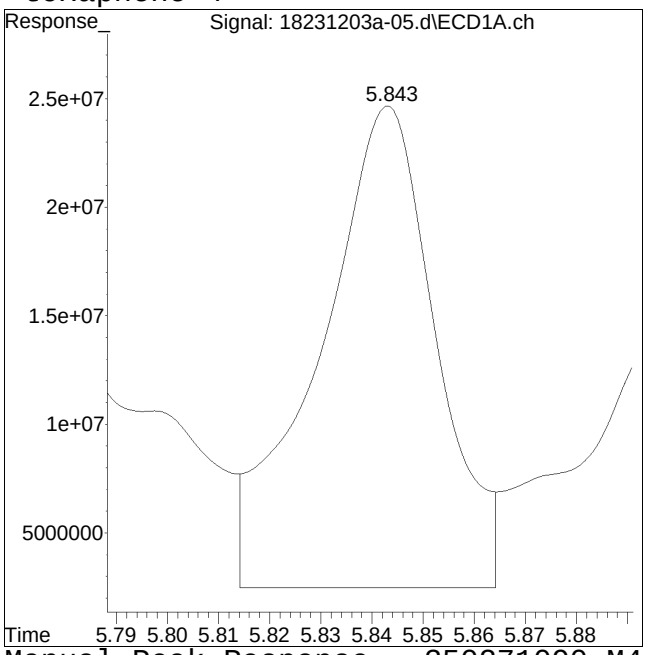
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-05.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:24 am Instrument : Pest 18
Sample : wg1859122-3,42,, tox11371 Quant Date : 12/3/2023 12:20 pm

Compound #37: toxaphene-4



Original Peak Response = 352432406

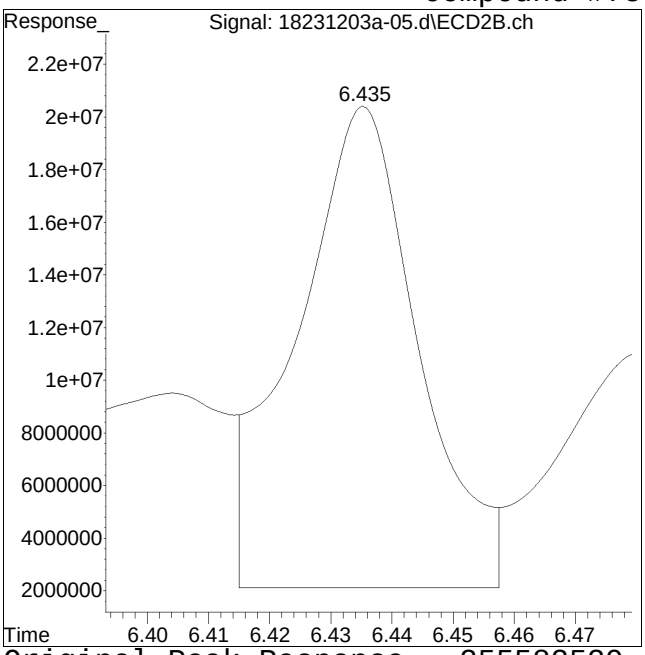


Manual Peak Response = 350271090 M4
M4 = Poor automated baseline construction.

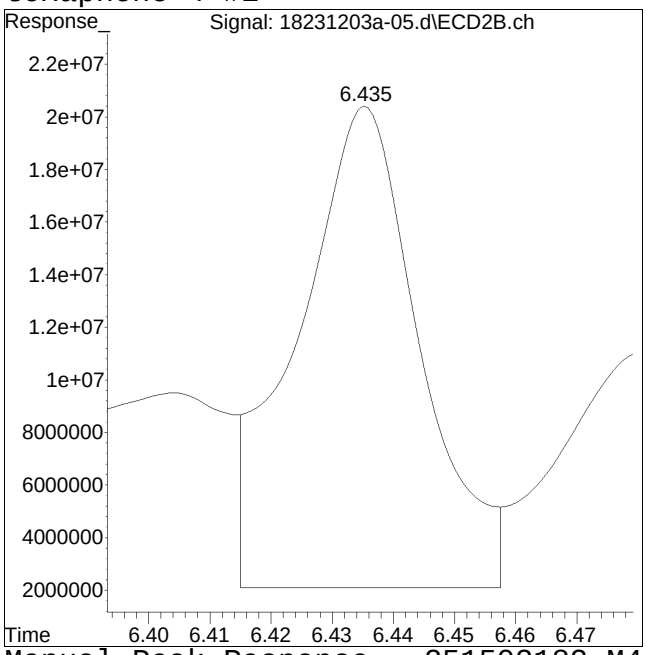
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-05.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 9:24 am Instrument : Pest 18
Sample : wg1859122-3,42,, tox11371 Quant Date : 12/3/2023 12:20 pm

Compound #75: toxaphene-4 #2



Original Peak Response = 255582529



Manual Peak Response = 251502182 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 04 Dec 2023 10:10 am
Operator : PEST10:akm
Sample   : WG1859447-2,42,,chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc   : WG1859447,,ical20620
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:18:37 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:18:17 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	104	0.00
29	l1	chlordane-1		*1000.000	922.122	7.8	98	0.00
30	l1	chlordane-3		*1000.000	807.616	19.2#	84	0.00
31	l1	chlordane-4		*1000.000	1000.158	-0.0	101	0.00
32	l1	chlordane-5		*1000.000	988.205	1.2	104	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	111	0.00
29	l1	chlordane-1		0.046	0.041	10.9	104	0.00
30	l1	chlordane-3		0.053	0.049	7.5	111	0.00
31	l1	chlordane-4		0.180	0.171	5.0	109	0.00
32	l1	chlordane-5		0.146	0.130	11.0	104	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.31#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.045	0.000	100.0#	0#	-1.66#
3	t	Hexachlorobenzene		1.118	0.000	100.0#	0#	-1.87#
4	t	alpha-BHC		1.422	0.000	100.0#	0#	-1.97#
5	t	gamma-BHC (lindane)		1.339	0.000	100.0#	0#	-2.18#
6	t	beta-BHC		0.619	0.000	100.0#	0#	-2.23#
7	t	delta-BHC		1.369	0.000	100.0#	0#	-2.36#
8	t	Heptachlor		1.308	0.000	100.0#	0#	-2.52#
9	t	Aldrin		1.199	0.000	100.0#	0#	-2.76#
10	t	Alachlor		0.283	0.000	100.0#	0#	-2.89#
11	t	Chlorpyrifos		0.635	0.000	100.0#	0#	-2.98#
12	t	Heptachlor Epoxide		1.183	0.000	100.0#	0#	-3.31#
13	t	gamma-Chlordane (trans)		1.079	0.000	100.0#	0#	-3.44#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 04 Dec 2023 10:10 am
Operator : PEST10:akm
Sample   : WG1859447-2,42,,chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc   : WG1859447,,ical20620
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:18:37 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:18:17 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.256	0.000	100.0#	0#	-3.57#
15	t	4,4'-DDE		1.160	0.000	100.0#	0#	-3.67#
16	t	Endosulfan I		1.139	0.000	100.0#	0#	-3.71#
17	t	Dieldrin		1.162	0.000	100.0#	0#	-3.97#
18	t	Endrin		1.210	0.000	100.0#	0#	-4.23#
19	t	4,4'-DDD		0.955	0.000	100.0#	0#	-4.33#
20	t	Endosulfan II		1.102	0.000	100.0#	0#	-4.47#
21	t	4,4'-DDT		1.095	0.000	100.0#	0#	-4.63#
22	t	Endrin Aldehyde		0.904	0.000	100.0#	0#	-4.89#
23	t	Methoxychlor		0.629	0.000	100.0#	0#	-5.11#
24	t	Mirex		0.996	0.000	100.0#	0#	-5.17#
25	t	Endosulfan Sulfate		1.079	0.000	100.0#	0#	-5.28#
26	t	Endrin Ketone		1.230	0.000	100.0#	0#	-5.51#
27	s	Decachlorobiphenyl		0.984	0.000	100.0#	0#	-6.31#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.31#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-4.46#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.58#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.00#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.18#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.41#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.041	0.000	100.0#	0#	-1.89#
3	t	Hexachlorobenzene		1.214	0.000	100.0#	0#	-2.22#
4	t	alpha-BHC		1.522	0.000	100.0#	0#	-2.32#
5	t	gamma-BHC (lindane)		1.451	0.000	100.0#	0#	-2.61#
6	t	beta-BHC		0.686	0.000	100.0#	0#	-2.68#
7	t	delta-BHC		1.463	0.000	100.0#	0#	-2.95#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 04 Dec 2023 10:10 am
Operator : PEST10:akm
Sample   : WG1859447-2,42,,chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc   : WG1859447,,ical20620
ALS Vial : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:18:37 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:18:17 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.525	0.000	100.0#	0#	-3.02#
9	t	Aldrin		1.405	0.000	100.0#	0#	-3.35#
10	t	Alachlor		0.209	0.000	100.0#	0#	-3.22#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.58#
12	t	Heptachlor Epoxide		1.450	0.000	100.0#	0#	-3.97#
13	t	gamma-Chlordane (trans)		1.283	0.000	100.0#	0#	-4.19#
14	t	alpha-Chlordane (cis)		1.451	0.000	100.0#	0#	-4.36#
15	t	4,4'-DDE		1.351	0.000	100.0#	0#	-4.55#
16	t	Endosulfan I		1.364	0.000	100.0#	0#	-4.42#
17	t	Dieldrin		1.362	0.000	100.0#	0#	-4.71#
18	t	Endrin		1.415	0.000	100.0#	0#	-5.00#
19	t	4,4'-DDD		1.113	0.000	100.0#	0#	-5.12#
20	t	Endosulfan II		1.325	0.000	100.0#	0#	-5.20#
21	t	4,4'-DDT		1.284	0.000	100.0#	0#	-5.39#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.49#
23	t	Methoxychlor		0.744	0.000	100.0#	0#	-5.95#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.09#
25	t	Endosulfan Sulfate		1.292	0.000	100.0#	0#	-5.72#
26	t	Endrin Ketone		1.412	0.000	100.0#	0#	-6.13#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.98#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.41#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.15#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-5.18#
36	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.50#
37	l2	toxaphene-5	*	2000.000	0.000	100.0#	0	-5.90#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 10:10 am
Operator : PEST10:akm
Sample : WG1859447-2,42,,chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc : WG1859447,,ical20620
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:18:37 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:18:17 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.312	1.406	183.5E6	82684190	25.000M4	25.000M4
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 10:10 am
Operator : PEST10:akm
Sample : WG1859447-2,42,,chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc : WG1859447,,ical20620
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:18:37 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:18:17 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	2.459	2.882	270.8E6	136.1E6	922.122	890.331
30) l1	chlordane-3	2.521	3.500	410.5E6	160.8E6	807.616	912.363
31) l1	chlordane-4	2.878	4.194	324.0E6	564.3E6	1000.158	947.712M3
32) l1	chlordane-5	3.435	4.361	1177.7E6	430.2E6	988.205	891.196
Sum	chlordane-1			2182.9E6	1291.5E6	N.D.	N.D. D
Average	chlordane-1					929.525	910.400
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

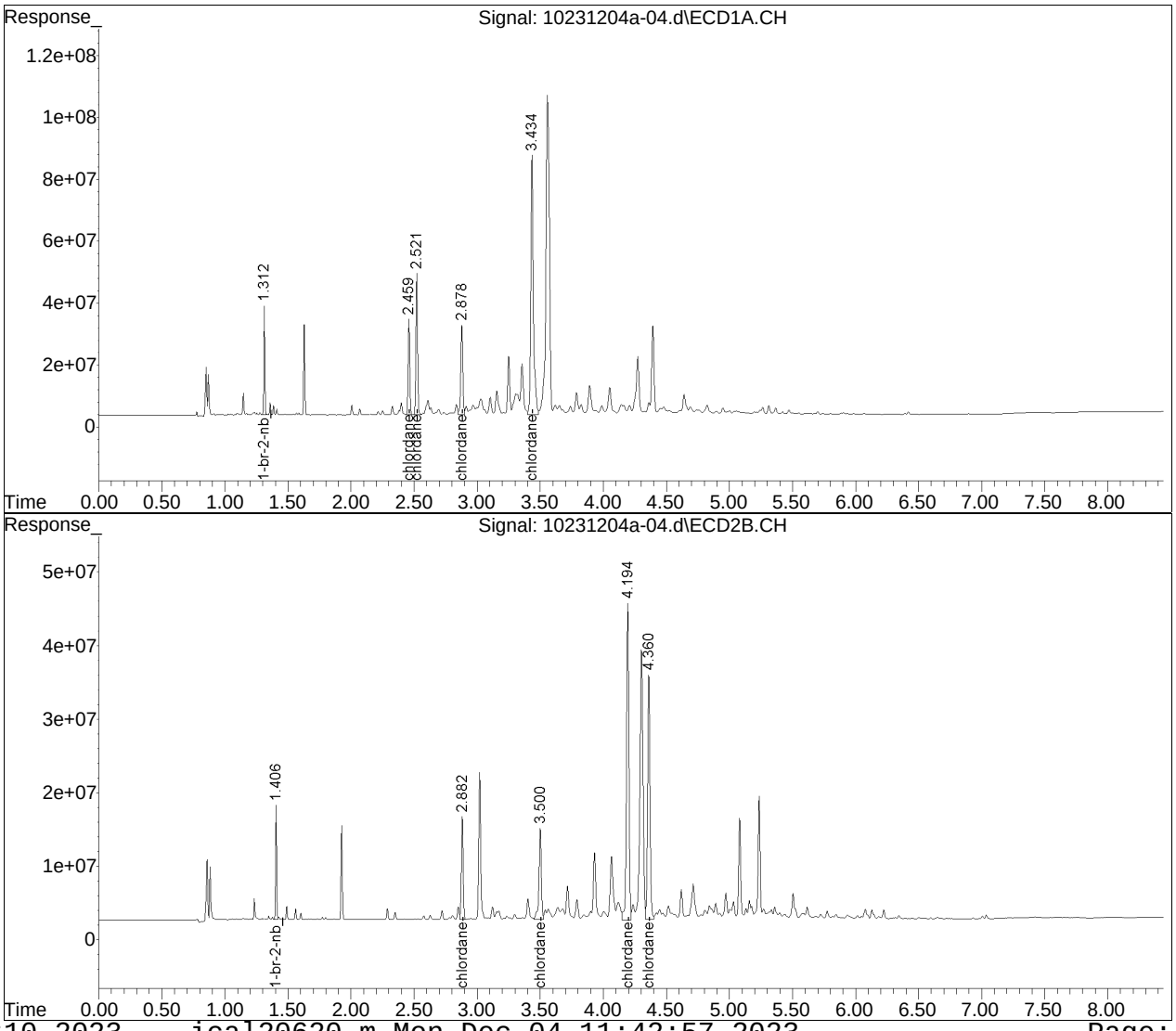
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 10:10 am
Operator : PEST10:akm
Sample : WG1859447-2,42,,chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc : WG1859447,,ical20620
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:18:37 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:18:17 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

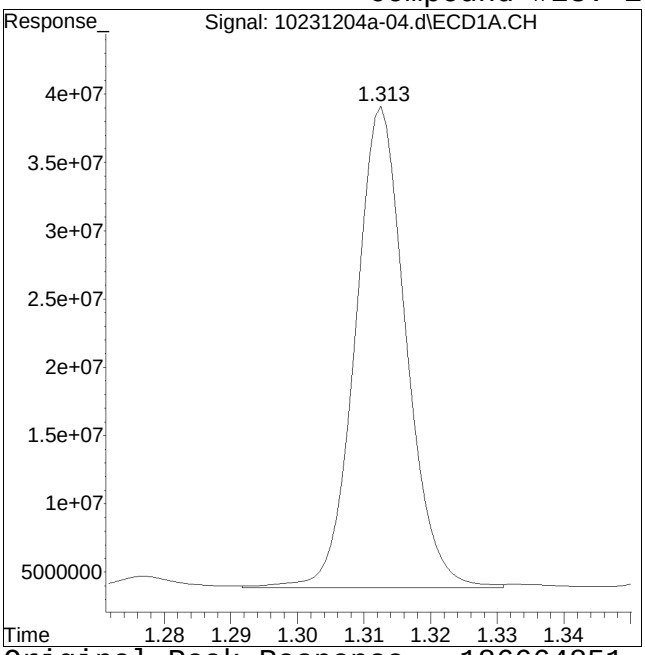
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



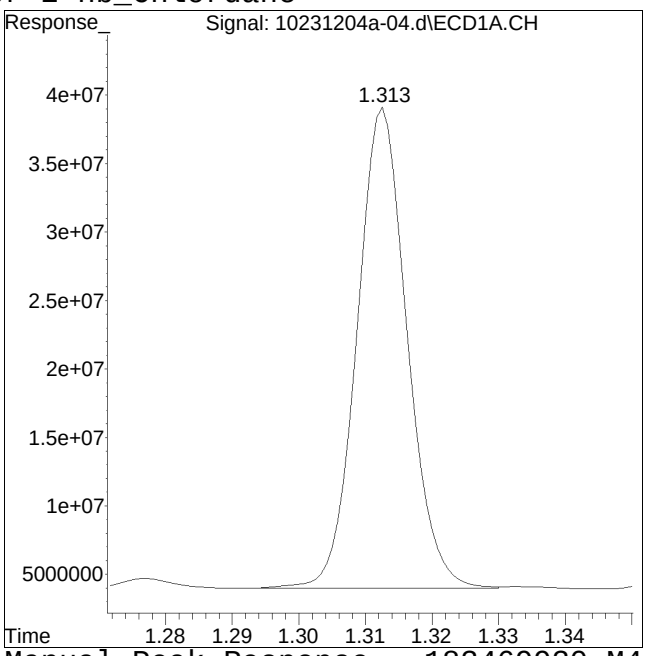
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-04.d Operator : PEST10:akm
Date Inj'd : 12/4/2023 10:10 am Instrument : Pest 10
Sample : WG1859447-2,42,,chlor11308Quant Date : 12/4/2023 11:18 am

Compound #28: 1-br-2-nb_Chlordane



Original Peak Response = 186664851



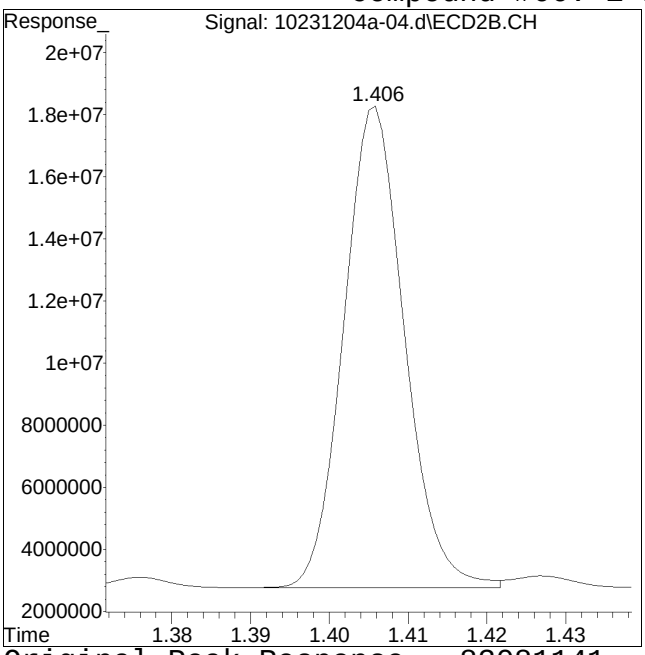
Manual Peak Response = 183469930 M4

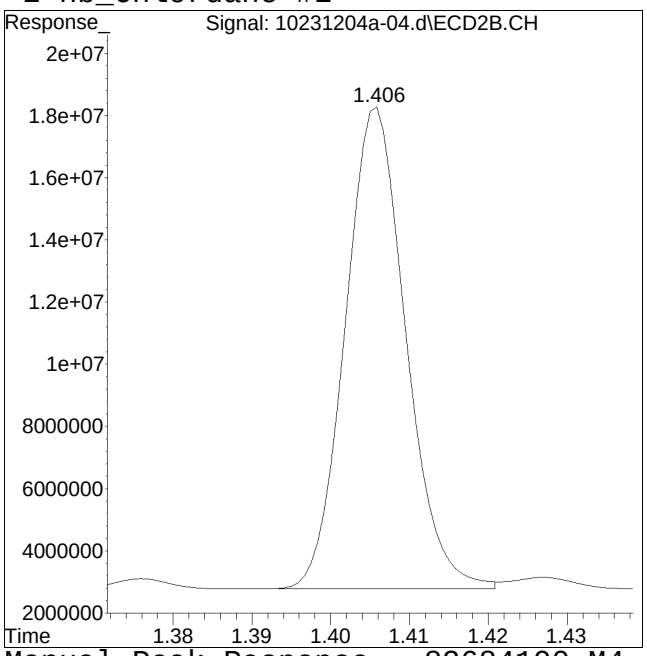
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-04.d Operator : PEST10:akm
Date Inj'd : 12/4/2023 10:10 am Instrument : Pest 10
Sample : WG1859447-2,42,,chlor11308Quant Date : 12/4/2023 11:18 am

Compound #66: 1-br-2-nb_Chlordane #2



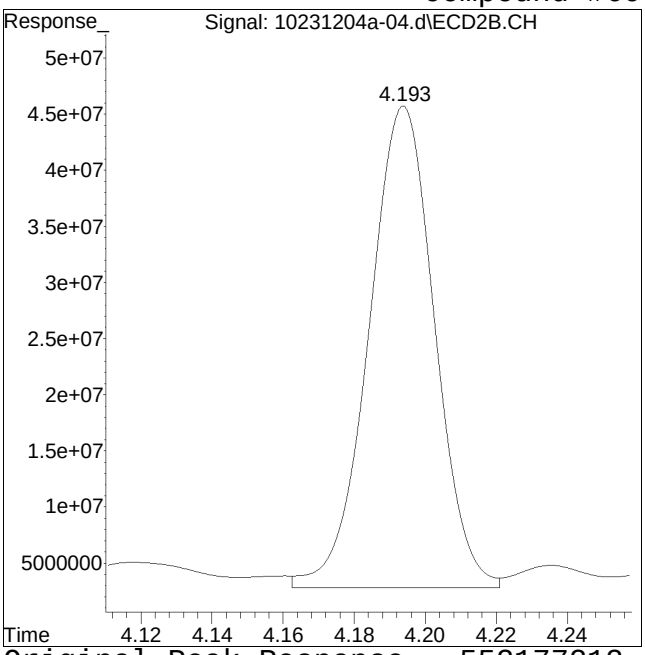


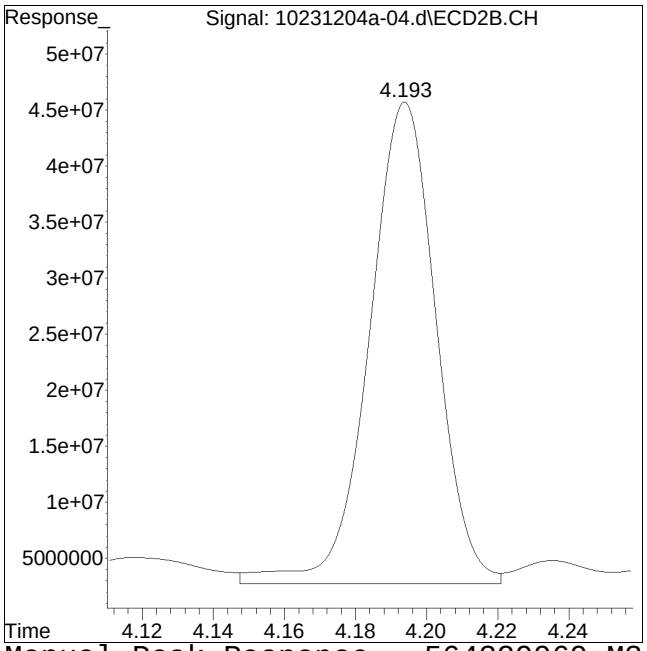
Original Peak Response = 83081141 Manual Peak Response = 82684190 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-04.d Operator : PEST10:akm
Date Inj'd : 12/4/2023 10:10 am Instrument : Pest 10
Sample : WG1859447-2,42,,chlor11308Quant Date : 12/4/2023 11:18 am

Compound #69: chlordane-4 #2





Original Peak Response = 552177212 Manual Peak Response = 564329969 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 04 Dec 2023 10:21 am
Operator : PEST10:akm
Sample   : WG1859447-3,42,,tox11371 (Sig #1); tox11371 (Sig #2)
Misc   : WG1859447,,ical20620
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:21:04 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	101	0.00
34	l2	toxaphene-1		*2000.000	1859.674	7.0	92	0.00
35	l2	toxaphene-2		*2000.000	1815.581	9.2	91	0.00
36	l2	toxaphene-4		*2000.000	1783.541	10.8	91	0.00
37	l2	toxaphene-5		*2000.000	1812.901	9.4	91	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	104	0.00
34	l2	toxaphene-1		*2000.000	1880.581	6.0	97	0.00
35	l2	toxaphene-2		*2000.000	1865.854	6.7	96	0.00
36	l2	toxaphene-4		*2000.000	1829.782	8.5	95	0.00
37	l2	toxaphene-5		*2000.000	1834.278	8.3	95	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.31#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.045	0.000	100.0#	0#	-1.66#
3	t	Hexachlorobenzene		1.118	0.000	100.0#	0#	-1.87#
4	t	alpha-BHC		1.422	0.000	100.0#	0#	-1.97#
5	t	gamma-BHC (lindane)		1.339	0.000	100.0#	0#	-2.18#
6	t	beta-BHC		0.619	0.000	100.0#	0#	-2.23#
7	t	delta-BHC		1.369	0.000	100.0#	0#	-2.36#
8	t	Heptachlor		1.308	0.000	100.0#	0#	-2.52#
9	t	Aldrin		1.199	0.000	100.0#	0#	-2.76#
10	t	Alachlor		0.283	0.000	100.0#	0#	-2.89#
11	t	Chlorpyrifos		0.635	0.000	100.0#	0#	-2.98#
12	t	Heptachlor Epoxide		1.183	0.000	100.0#	0#	-3.31#
13	t	gamma-Chlordane (trans)		1.079	0.000	100.0#	0#	-3.44#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 04 Dec 2023 10:21 am
Operator : PEST10:akm
Sample   : WG1859447-3,42,,tox11371 (Sig #1); tox11371 (Sig #2)
Misc   : WG1859447,,ical20620
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:21:04 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14	t	alpha-Chlordane (cis)		1.256	0.000	100.0#	0#	-3.57#
15	t	4,4'-DDE		1.160	0.000	100.0#	0#	-3.67#
16	t	Endosulfan I		1.139	0.000	100.0#	0#	-3.71#
17	t	Dieldrin		1.162	0.000	100.0#	0#	-3.97#
18	t	Endrin		1.210	0.000	100.0#	0#	-4.23#
19	t	4,4'-DDD		0.955	0.000	100.0#	0#	-4.33#
20	t	Endosulfan II		1.102	0.000	100.0#	0#	-4.47#
21	t	4,4'-DDT		1.095	0.000	100.0#	0#	-4.63#
22	t	Endrin Aldehyde		0.904	0.000	100.0#	0#	-4.89#
23	t	Methoxychlor		0.629	0.000	100.0#	0#	-5.11#
24	t	Mirex		0.996	0.000	100.0#	0#	-5.17#
25	t	Endosulfan Sulfate		1.079	0.000	100.0#	0#	-5.28#
26	t	Endrin Ketone		1.230	0.000	100.0#	0#	-5.51#
27	s	Decachlorobiphenyl		0.984	0.000	100.0#	0#	-6.31#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.46#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.52#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-2.88#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.43#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.41#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.041	0.000	100.0#	0#	-1.89#
3	t	Hexachlorobenzene		1.214	0.000	100.0#	0#	-2.22#
4	t	alpha-BHC		1.522	0.000	100.0#	0#	-2.32#
5	t	gamma-BHC (lindane)		1.451	0.000	100.0#	0#	-2.61#
6	t	beta-BHC		0.686	0.000	100.0#	0#	-2.68#
7	t	delta-BHC		1.463	0.000	100.0#	0#	-2.95#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 04 Dec 2023 10:21 am
Operator : PEST10:akm
Sample   : WG1859447-3,42,,tox11371 (Sig #1); tox11371 (Sig #2)
Misc   : WG1859447,,ical20620
ALS Vial : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:21:04 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8	t	Heptachlor		1.525	0.000	100.0#	0#	-3.02#
9	t	Aldrin		1.405	0.000	100.0#	0#	-3.35#
10	t	Alachlor		0.209	0.000	100.0#	0#	-3.22#
11	t	Chlorpyrifos	*	50.000	0.000	100.0#	0	-3.58#
12	t	Heptachlor Epoxide		1.450	0.000	100.0#	0#	-3.97#
13	t	gamma-Chlordane (trans)		1.283	0.000	100.0#	0#	-4.19#
14	t	alpha-Chlordane (cis)		1.451	0.000	100.0#	0#	-4.36#
15	t	4,4'-DDE		1.351	0.000	100.0#	0#	-4.55#
16	t	Endosulfan I		1.364	0.000	100.0#	0#	-4.42#
17	t	Dieldrin		1.362	0.000	100.0#	0#	-4.71#
18	t	Endrin		1.415	0.000	100.0#	0#	-5.00#
19	t	4,4'-DDD		1.113	0.000	100.0#	0#	-5.12#
20	t	Endosulfan II		1.325	0.000	100.0#	0#	-5.20#
21	t	4,4'-DDT		1.284	0.000	100.0#	0#	-5.39#
22	t	Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.49#
23	t	Methoxychlor		0.744	0.000	100.0#	0#	-5.95#
24	t	Mirex	*	50.000	0.000	100.0#	0	-6.09#
25	t	Endosulfan Sulfate		1.292	0.000	100.0#	0#	-5.72#
26	t	Endrin Ketone		1.412	0.000	100.0#	0#	-6.13#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.98#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.41#
29	l1	chlordane-1		0.046	0.000	100.0#	0#	-2.88#
30	l1	chlordane-3		0.053	0.000	100.0#	0#	-3.50#
31	l1	chlordane-4		0.180	0.000	100.0#	0#	-4.19#
32	l1	chlordane-5		0.146	0.000	100.0#	0#	-4.36#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 10:21 am
Operator : PEST10:akm
Sample : WG1859447-3,42,,tox11371 (Sig #1); tox11371 (Sig #2)
Misc : WG1859447,,ical20620
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:21:04 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.313	1.405	179.2E6	77409989	25.000	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3) t	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4) t	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5) t	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6) t	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7) t	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8) t	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9) t	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10) t	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11) t	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12) t	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13) t	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14) t	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15) t	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17) t	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18) t	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19) t	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20) t	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21) t	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22) t	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23) t	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 10:21 am
Operator : PEST10:akm
Sample : WG1859447-3,42,,tox11371 (Sig #1); tox11371 (Sig #2)
Misc : WG1859447,,ical20620
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:21:04 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25) t	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26) t	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.459	5.155	609.1E6	165.6E6	1859.674	1880.581
35) l2	toxaphene-2	4.583	5.184	578.6E6	239.3E6	1815.581	1865.854
36) l2	toxaphene-4	5.001	5.496	505.3E6	289.6E6	1783.541	1829.782
37) l2	toxaphene-5	5.185	5.903	596.2E6	268.3E6	1812.901	1834.278
Sum	toxaphene-1			2289.1E6	962.8E6	7271.697	7410.495
Average	toxaphene-1					1817.924	1852.624

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			2289.1E6	962.8E6	7271.697	7410.495
Average	toxaphene-1					1817.924	1852.624

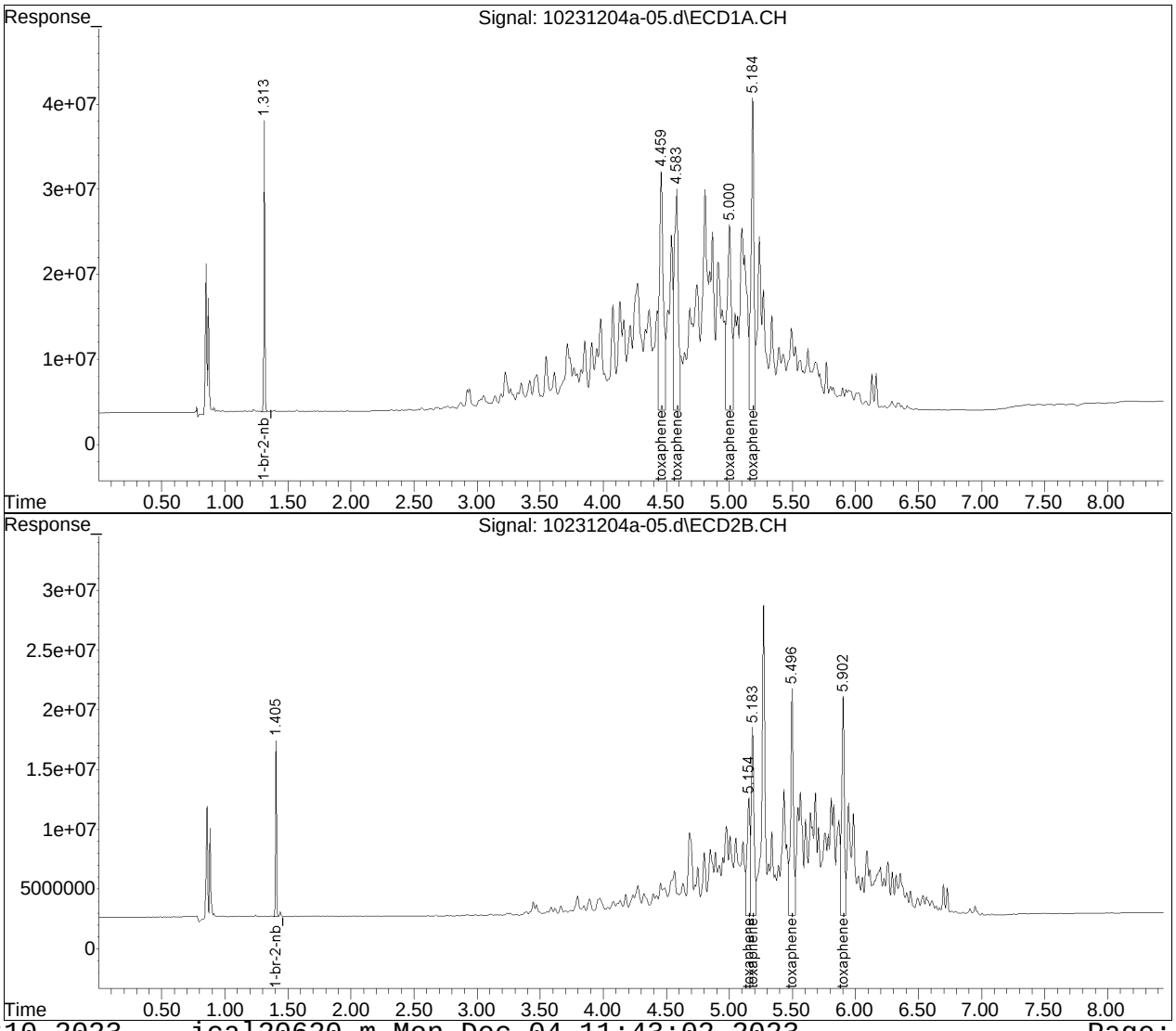
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 10:21 am
Operator : PEST10:akm
Sample : WG1859447-3,42,,tox11371 (Sig #1); tox11371 (Sig #2)
Misc : WG1859447,,ical20620
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:21:04 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

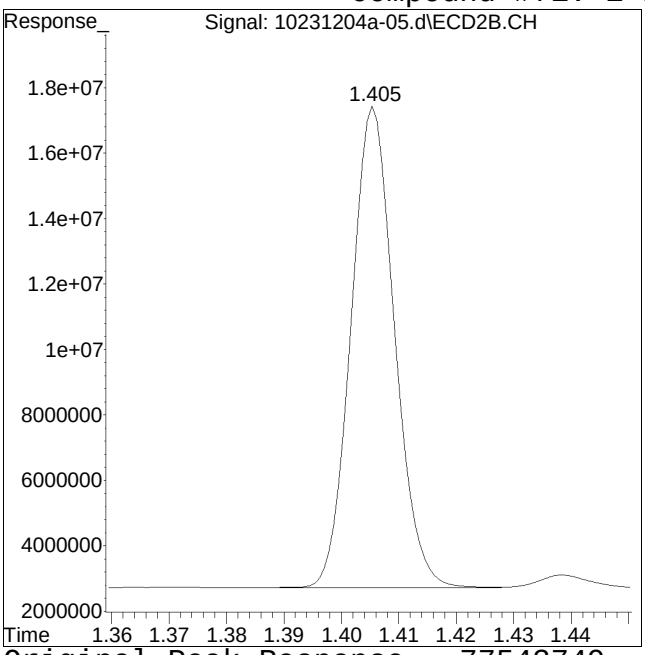
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

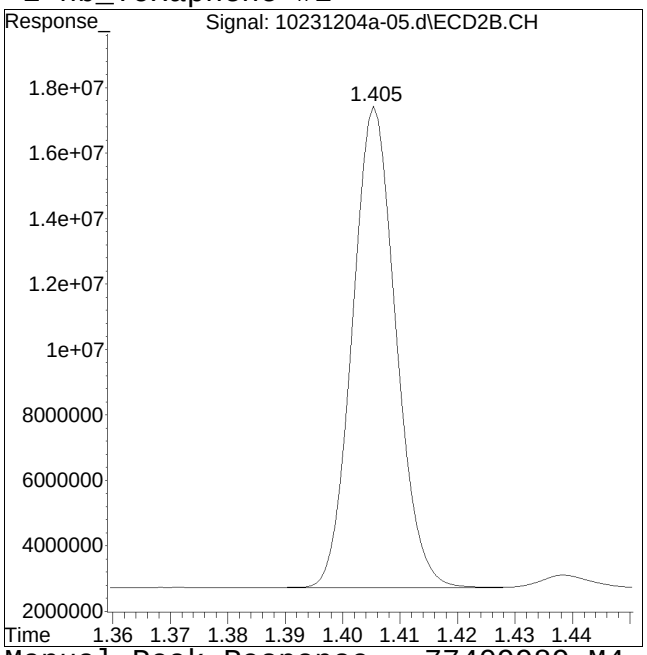


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-05.d Operator : PEST10:akm
Date Inj'd : 12/4/2023 10:21 am Instrument : Pest 10
Sample : WG1859447-3,42,,tox11371 Quant Date : 12/4/2023 11:20 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 77543749 Manual Peak Response = 77409989 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 04 Dec 2023   3:24 pm
Operator : PEST10:mmg
Sample   : wg1859447-4,42,,pest11375 (Sig #1); pest11375 (Sig #2)
Misc   : wg1859447,,ical20620
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 15:38:35 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	112	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.045	1.122	-7.4	131	0.00
3	t	Hexachlorobenzene		1.118	1.191	-6.5	129	0.00
4	t	alpha-BHC		1.422	1.660	-16.7#	129	0.00
5	t	gamma-BHC (lindane)		1.339	1.509	-12.7	128	0.00
6	t	beta-BHC		0.619	0.660	-6.6	131	0.00
7	t	delta-BHC		1.369	1.537	-12.3	127	0.00
8	t	Heptachlor		1.308	1.514	-15.7#	134	0.00
9	t	Aldrin		1.199	1.470	-22.6#	140	0.00
10	t	Alachlor		0.283	0.365	-29.0#	154#	0.00
11	t	Chlorpyrifos		0.635	0.696	-9.6	137	0.00
12	t	Heptachlor Epoxide		1.183	1.374	-16.1#	136	0.00
13	t	gamma-Chlordane (trans)		1.079	1.438	-33.3#	159#	0.00
14	t	alpha-Chlordane (cis)		1.256	1.420	-13.1	138	0.00
15	t	4,4'-DDE		1.160	1.441	-24.2#	142	0.00
16	t	Endosulfan I		1.139	1.322	-16.1#	137	0.00
17	t	Dieldrin		1.162	1.498	-28.9#	149	0.00
18	t	Endrin		1.210	1.425	-17.8#	135	0.00
19	t	4,4'-DDD		0.955	1.249	-30.8#	150#	0.00
20	t	Endosulfan II		1.102	1.314	-19.2#	141	0.00
21	t	4,4'-DDT		1.095	1.291	-17.9#	137	0.00
22	t	Endrin Aldehyde		0.904	0.977	-8.1	125	0.00
23	t	Methoxychlor		0.629	0.690	-9.7	133	0.00
24	t	Mirex		0.996	1.093	-9.7	139	0.00
25	t	Endosulfan Sulfate		1.079	1.271	-17.8#	141	0.00
26	t	Endrin Ketone		1.230	1.476	-20.0#	140	0.00
27	s	Decachlorobiphenyl		0.984	1.046	-6.3	130	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 04 Dec 2023   3:24 pm
Operator : PEST10:mmg
Sample   : wg1859447-4,42,,pest11375 (Sig #1); pest11375 (Sig #2)
Misc   : wg1859447,,ical20620
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 15:38:35 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	115	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.041	1.096	-5.3	128	0.00
3	t	Hexachlorobenzene		1.214	1.243	-2.4	129	0.00
4	t	alpha-BHC		1.522	1.714	-12.6	130	0.00
5	t	gamma-BHC (lindane)		1.451	1.567	-8.0	128	0.00
6	t	beta-BHC		0.686	0.707	-3.1	130	0.00
7	t	delta-BHC		1.463	1.590	-8.7	127	0.00
8	t	Heptachlor		1.525	1.664	-9.1	132	0.00
9	t	Aldrin		1.405	1.627	-15.8#	139	0.00
10	t	Alachlor		0.209	0.261	-24.9#	150	0.00
11	t	Chlorpyrifos	*	50.000	61.025	-22.0#	135	0.00
12	t	Heptachlor Epoxide		1.450	1.556	-7.3	134	0.00
13	t	gamma-Chlordane (trans)		1.283	1.636	-27.5#	158#	0.00
14	t	alpha-Chlordane (cis)		1.451	1.598	-10.1	138	0.00
15	t	4,4'-DDE		1.351	1.602	-18.6#	140	0.00
16	t	Endosulfan I		1.364	1.491	-9.3	135	0.00
17	t	Dieldrin		1.362	1.664	-22.2#	147	0.00
18	t	Endrin		1.415	1.584	-11.9	135	0.00
19	t	4,4'-DDD		1.113	1.386	-24.5#	149	0.00
20	t	Endosulfan II		1.325	1.459	-10.1	137	0.00
21	t	4,4'-DDT		1.284	1.426	-11.1	134	0.00
22	t	Endrin Aldehyde	*	50.000	51.958	-3.9	122	0.00
23	t	Methoxychlor		0.744	0.740	0.5	128	0.00
24	t	Mirex	*	50.000	56.830	-13.7	131	0.00
25	t	Endosulfan Sulfate		1.292	1.416	-9.6	139	0.00
26	t	Endrin Ketone		1.412	1.524	-7.9	134	0.00
27	s	Decachlorobiphenyl	*	50.000	37.395	25.2#	86	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 04 Dec 2023   3:24 pm
Operator : PEST10:mmg
Sample   : wg1859447-4,42,,pest11375 (Sig #1); pest11375 (Sig #2)
Misc   : wg1859447,,ical20620
ALS Vial : 27 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 15:38:35 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.31#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-2.46#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-2.52#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-2.88#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-3.43#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.31#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-4.46#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-4.58#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.00#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.18#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.41#
29	l1	chlordane-1		0.046	0.000	100.0#	0#	-2.88#
30	l1	chlordane-3		0.053	0.000	100.0#	0#	-3.50#
31	l1	chlordane-4		0.180	0.000	100.0#	0#	-4.19#
32	l1	chlordane-5		0.146	0.000	100.0#	0#	-4.36#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.41#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.15#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.18#
36	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.50#
37	l2	toxaphene-5		*2000.000	0.000	100.0#	0	-5.90#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 3:24 pm
Operator : PEST10:mmg
Sample : wg1859447-4,42,,pest11375 (Sig #1); pest11375 (Sig #2)
Misc : wg1859447,,ical20620
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 15:38:35 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.312	1.405	199.3E6	87020004	25.000	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	1.657	1.894	447.2E6	190.8E6	53.699	52.626
	Spiked Amount 50.000	Range 30 - 150		Recovery =		107.40%	105.25%
27) s	Decachlorobi	6.305	6.977	416.9E6	136.3E6	53.130	37.395
	Spiked Amount 50.000	Range 30 - 150		Recovery =		106.26%	74.79%
	Target Compounds						
3) t	Hexachlorobe	1.871	2.223	474.9E6	216.4E6	53.258	51.206
4) t	alpha-BHC	1.971	2.322	661.6E6	298.2E6	58.370	56.283
5) t	gamma-BHC (l	2.175	2.614	601.6E6	272.7E6	56.367	53.986
6) t	beta-BHC	2.230	2.679	263.1E6	123.0E6	53.307	51.510
7) t	delta-BHC	2.359	2.952	612.7E6	276.6E6	56.136	54.311
8) t	Heptachlor	2.521	3.020	603.4E6	289.6E6	57.877	54.549
9) t	Aldrin	2.764	3.346	585.9E6	283.2E6	61.296	57.917
10) t	Alachlor	2.889	3.224	145.6E6	45401466	64.440	62.282
11) t	Chlorpyrifos	2.978	3.585	277.5E6	150.3E6	54.793	61.025
12) t	Heptachlor E	3.312	3.971	547.6E6	270.8E6	58.064	53.670
13) t	gamma-Chlord	3.434	4.194	573.1E6	284.7E6	66.650	63.742
14) t	alpha-Chlord	3.570	4.361	566.1E6	278.0E6	56.531	55.054
15) t	4,4'-DDE	3.665	4.552	574.5E6	278.8E6	62.139	59.296
16) t	Endosulfan I	3.708	4.421	527.1E6	259.5E6	58.038	54.637
17) t	Dieldrin	3.969	4.707	597.1E6	289.6E6	64.435	61.073
18) t	Endrin	4.225	5.000	568.2E6	275.7E6	58.899	55.985
19) t	4,4'-DDD	4.333	5.118	498.0E6	241.2E6	65.412	62.274
20) t	Endosulfan I	4.466	5.196	523.7E6	253.9E6	59.623	55.046
21) t	4,4'-DDT	4.626	5.393	514.7E6	248.2E6	58.943	55.521
22) t	Endrin Aldeh	4.886	5.490	389.5E6	187.2E6	54.054	51.958
23) t	Methoxychlor	5.112	5.951	275.0E6	128.8E6	54.800	49.732

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 3:24 pm
Operator : PEST10:mmg
Sample : wg1859447-4,42,,pest11375 (Sig #1); pest11375 (Sig #2)
Misc : wg1859447,,ical20620
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 15:38:35 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24) t	Mirex	5.169	6.092	435.5E6	204.5E6	54.834	56.830
25) t	Endosulfan S	5.280	5.716	506.6E6	246.5E6	58.907	54.798
26) t	Endrin Keton	5.506	6.126	588.3E6	265.2E6	59.986	53.932
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

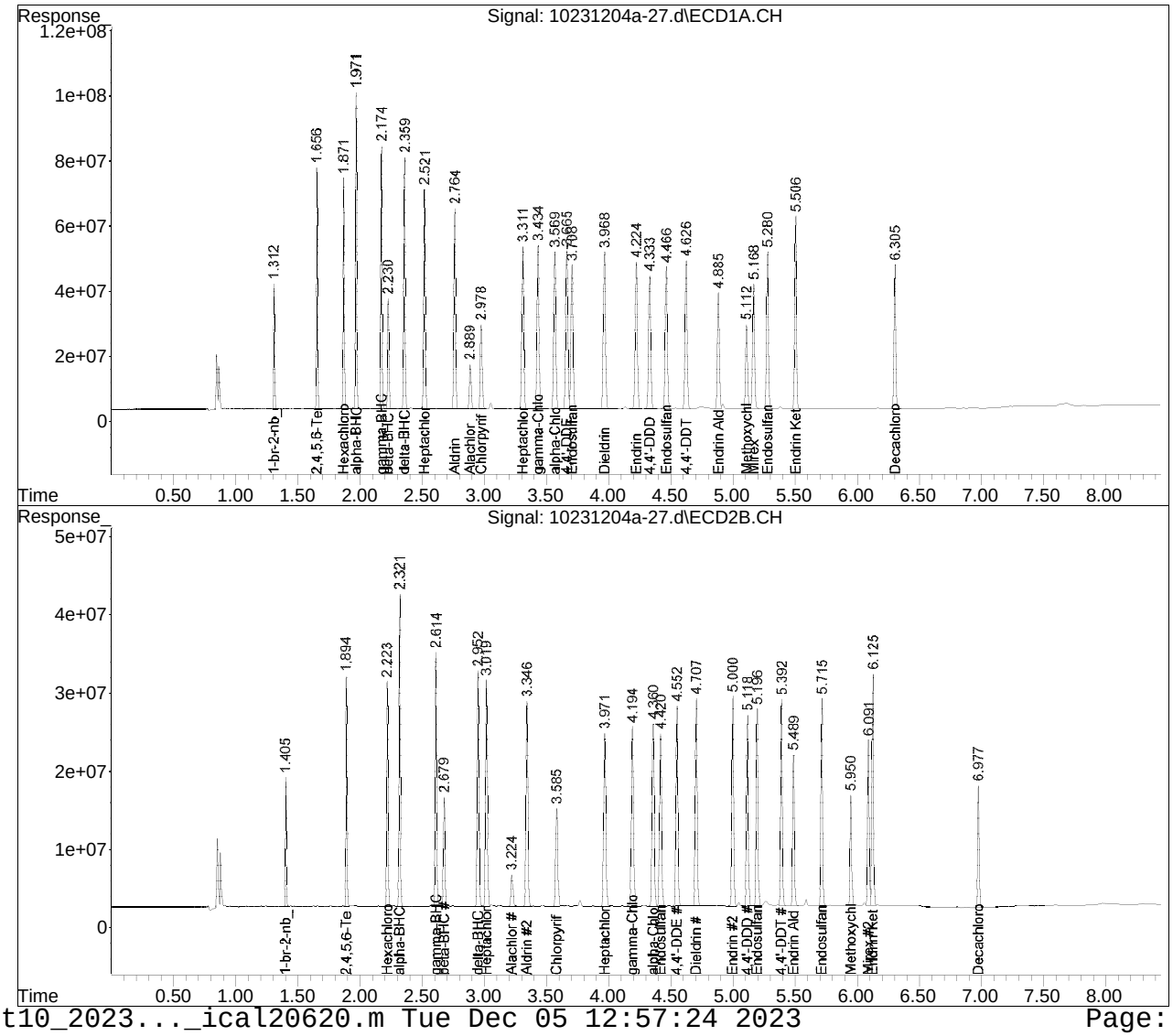
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 3:24 pm
Operator : PEST10:mmg
Sample : wg1859447-4,42,,pest11375 (Sig #1); pest11375 (Sig #2)
Misc : wg1859447,,ical20620
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 15:38:35 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\PEST\Pest10\2023\231204	QMethod	: pest10_2023_11_13_ugL_ic
Data File	: 10231204a-27.d	Operator	: PEST10:mmg
Date Inj'd	: 12/4/2023 3:24 pm	Instrument	: Pest 10
Sample	: wg1859447-4,42,,pest11375	Quant Date	: 12/4/2023 3:38 pm

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

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 4 Dec 2023 12:39 pm
Operator : PEST18:akm
Sample   : wg1859540-1,42,,pest11375 (Sig #1); pest11375 (Sig #2)
Misc   : wg1859540,,ical20463
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:35:40 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:35:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	143	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.998	3.9	136	0.00
3		Hexachlorobenzene		1.174	1.132	3.6	143	0.00
4		alpha-BHC		1.316	1.337	-1.6	136	0.00
5		gamma-BHC (lindane)		1.215	1.218	-0.2	136	0.00
6		beta-BHC	*	50.000	50.373	-0.7	135	0.00
7		delta-BHC		1.244	1.187	4.6	130	0.00
8		Heptachlor		1.195	1.206	-0.9	147	0.00
9		Aldrin		1.142	1.175	-2.9	143	0.00
10		Alachlor		0.203	0.171	15.8	122	0.00
11		Chlorpyrifos		0.610	0.499	18.2	123	0.00
12		Heptachlor Epoxide		1.116	1.065	4.6	136	0.00
13		gamma-Chlordane (trans)		1.128	1.107	1.9	155#	0.00
14		alpha-Chlordane (cis)		1.194	1.084	9.2	135	0.00
15		4,4'-DDE		1.124	1.099	2.2	136	0.00
16		Endosulfan I		1.059	0.998	5.8	135	0.00
17		Dieldrin	*	50.000	52.433	-4.9	146	0.00
18		Endrin		1.154	1.079	6.5	133	0.00
19		4,4'-DDD		0.903	0.917	-1.6	141	0.00
20		Endosulfan II		1.017	0.958	5.8	136	0.00
21		4,4'-DDT	*	50.000	54.790	-9.6	171	0.00
22		Endrin Aldehyde	*	50.000	41.922	16.2	117	0.00
23		Methoxychlor		0.412	0.543	-31.8#	173#	0.00
24		Mirex		0.948	0.822	13.3	134	0.00
25		Endosulfan Sulfate		0.950	0.888	6.5	133	0.00
26		Endrin Ketone		0.935	1.098	-17.4	161#	0.00
27	s	Decachlorobiphenyl	*	50.000	45.639	8.7	130	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 4 Dec 2023 12:39 pm
Operator : PEST18:akm
Sample   : wg1859540-1,42,,pest11375 (Sig #1); pest11375 (Sig #2)
Misc   : wg1859540,,ical20463
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:35:40 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:35:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	121	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl		1.057	1.009	4.5	114	0.00
3		Hexachlorobenzene		1.244	1.117	10.2	115	0.00
4		alpha-BHC		1.350	1.346	0.3	114	0.00
5		gamma-BHC (lindane)		1.263	1.220	3.4	114	0.00
6		beta-BHC	*	50.000	49.269	1.5	113	0.00
7		delta-BHC		1.271	1.188	6.5	109	0.00
8		Heptachlor		1.245	1.226	1.5	120	0.00
9		Aldrin		1.183	1.153	2.5	115	0.00
10		Alachlor		0.184	0.180	2.2	119	0.00
11		Chlorpyrifos		0.647	0.560	13.4	110	0.00
12		Heptachlor Epoxide		1.169	1.077	7.9	113	0.00
13		gamma-Chlordane (trans)		1.066	1.110	-4.1	129	0.00
14		alpha-Chlordane (cis)		1.208	1.096	9.3	114	0.00
15		4,4'-DDE		1.171	1.114	4.9	113	0.00
16		Endosulfan I		1.099	1.017	7.5	112	0.00
17		Dieldrin		1.119	1.154	-3.1	124	0.00
18		Endrin		1.129	1.097	2.8	117	0.00
19		4,4'-DDD		0.941	0.958	-1.8	124	0.00
20		Endosulfan II		1.038	0.995	4.1	119	0.00
21		4,4'-DDT		0.822	1.059	-28.8#	148	0.00
22		Endrin Aldehyde	*	50.000	43.683	12.6	105	0.00
23		Methoxychlor		0.462	0.589	-27.5#	150#	0.00
24		Mirex	*	50.000	54.876	-9.8	123	0.00
25		Endosulfan Sulfate		0.991	0.939	5.2	123	0.00
26		Endrin Ketone		0.975	1.141	-17.0	141	0.00
27	s	Decachlorobiphenyl		0.992	0.884	10.9	122	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 4 Dec 2023 12:39 pm
Operator : PEST18:akm
Sample   : wg1859540-1,42,,pest11375 (Sig #1); pest11375 (Sig #2)
Misc   : wg1859540,,ical20463
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:35:40 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:35:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.75#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.12#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.50#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.07#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.19#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.75#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.10#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.22#
36	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-5.46#
37	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-5.84#

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.79#
29	l1	chlordane-1		*1000.000	0.000	100.0#	0	-3.34#
30	l1	chlordane-3		*1000.000	0.000	100.0#	0	-3.95#
31	l1	chlordane-4		*1000.000	0.000	100.0#	0	-4.63#
32	l1	chlordane-5		*1000.000	0.000	100.0#	0	-4.81#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.79#
34	l2	toxaphene-1		*2000.000	0.000	100.0#	0	-5.68#
35	l2	toxaphene-2		*2000.000	0.000	100.0#	0	-5.77#
36	l2	toxaphene-3		*2000.000	0.000	100.0#	0	-6.01#
37	l2	toxaphene-4		*2000.000	0.000	100.0#	0	-6.43#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 12:39 pm
Operator : PEST18:akm
Sample : wg1859540-1,42,,pest11375 (Sig #1); pest11375 (Sig #2)
Misc : wg1859540,,ical20463
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:35:40 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:35:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.745	1.793	119.2E6	88406823	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.179	2.344	237.9E6	178.4E6	48.009M4	47.730
	Spiked Amount 50.000	Range 30 - 150		Recovery =		96.02%	95.46%
27) s	Decachlorobi	6.975	7.540	213.4E6	156.4E6	45.639	44.587
	Spiked Amount 50.000	Range 30 - 150		Recovery =		91.28%	89.17%
	Target Compounds						
3)	Hexachlorobe	2.422	2.684	269.8E6	197.5E6	48.197M4	44.892
4)	alpha-BHC	2.534	2.788	318.7E6	237.9E6	50.819M4	49.844
5)	gamma-BHC (l	2.755	3.081	290.4E6	215.8E6	50.134M4	48.307
6)	beta-BHC	2.821	3.154	132.6E6	99546091	50.373M4	49.269
7)	delta-BHC	2.955	3.421	283.1E6	210.0E6	47.728M4	46.722
8)	Heptachlor	3.123	3.479	287.5E6	216.7E6	50.456M4	49.220
9)	Aldrin	3.375	3.797	280.1E6	203.9E6	51.449M4	48.742
10)	Alachlor	3.512	3.695	40716491	31786173	41.996M4	48.912
11)	Chlorpyrifos	3.608	4.048	118.9E6	98937724	40.852M4	43.230
12)	Heptachlor E	3.937	4.413	253.9E6	190.4E6	47.718M4	46.067
13)	gamma-Chlord	4.065	4.633	264.0E6	196.3E6	49.088M4	52.072
14)	alpha-Chlord	4.202	4.808	258.5E6	193.7E6	45.433M4	45.337
15)	4,4'-DDE	4.307	5.024	262.0E6	197.0E6	48.878M4	47.591
16)	Endosulfan I	4.338	4.870	238.0E6	179.9E6	47.125M4	46.296
17)	Dieldrin	4.602	5.178	271.9E6	204.0E6	52.433M4	51.557
18)	Endrin	4.859	5.487	257.3E6	194.0E6	46.769M4	48.603
19)	4,4'-DDD	4.980	5.625	218.6E6	169.3E6	50.766M4	50.897
20)	Endosulfan I	5.107	5.696	228.4E6	176.0E6	47.076M4	47.930
21)	4,4'-DDT	5.279	5.911	233.0E6	187.3E6	54.790M4	64.464
22)	Endrin Aldeh	5.532	6.002	165.4E6	129.9E6	41.922M4	43.683M4

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 12:39 pm
Operator : PEST18:akm
Sample : wg1859540-1,42,,pest11375 (Sig #1); pest11375 (Sig #2)
Misc : wg1859540,,ical20463
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:35:40 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:35:29 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	5.779	6.493	129.5E6	104.2E6	65.880M4	63.744M4
24)	Mirex	5.828	6.618	196.1E6	148.5E6	43.358M4	54.876
25)	Endosulfan S	5.930	6.238	211.7E6	166.0E6	46.731M4	47.355
26)	Endrin Keton	6.160	6.656	261.8E6	201.7E6	58.709	58.466
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

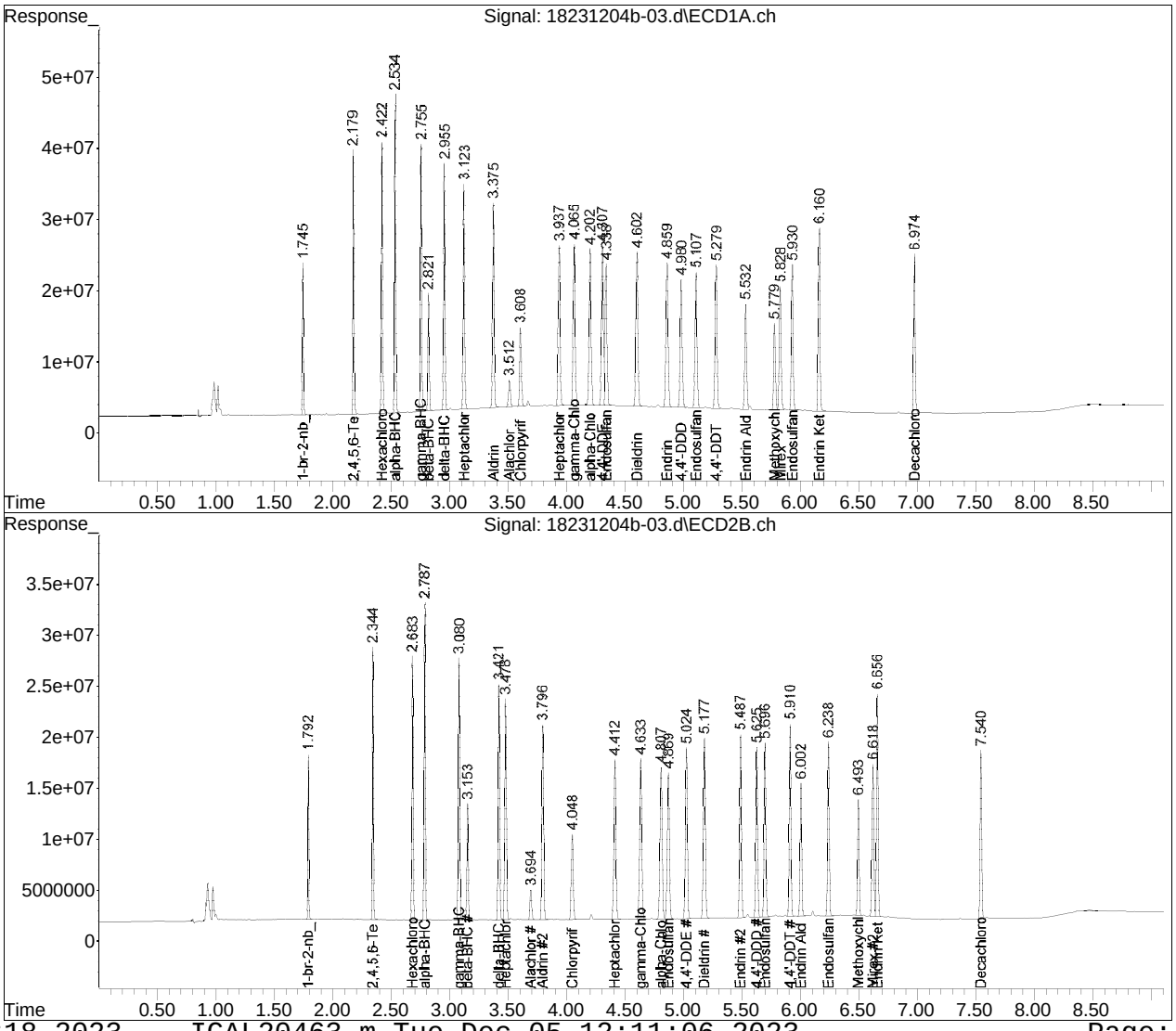
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 12:39 pm
Operator : PEST18:akm
Sample : wg1859540-1,42,,pest11375 (Sig #1); pest11375 (Sig #2)
Misc : wg1859540,,ical20463
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:35:40 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:35:29 2023
Response via : Initial Calibration
Integrator: ChemStation

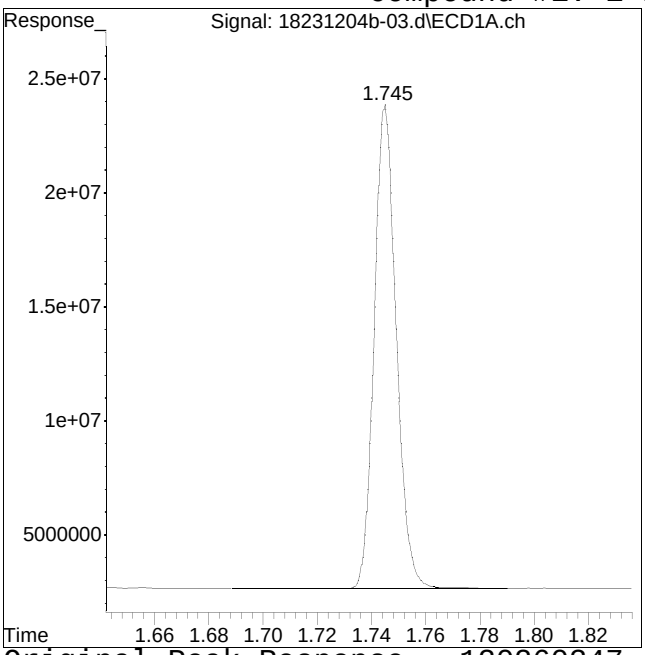
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

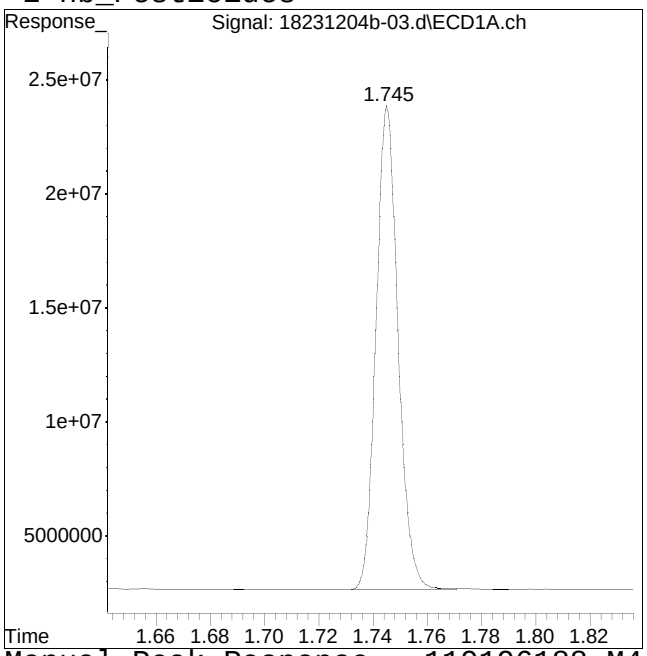


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #1: 1-br-2-nb_Pesticides



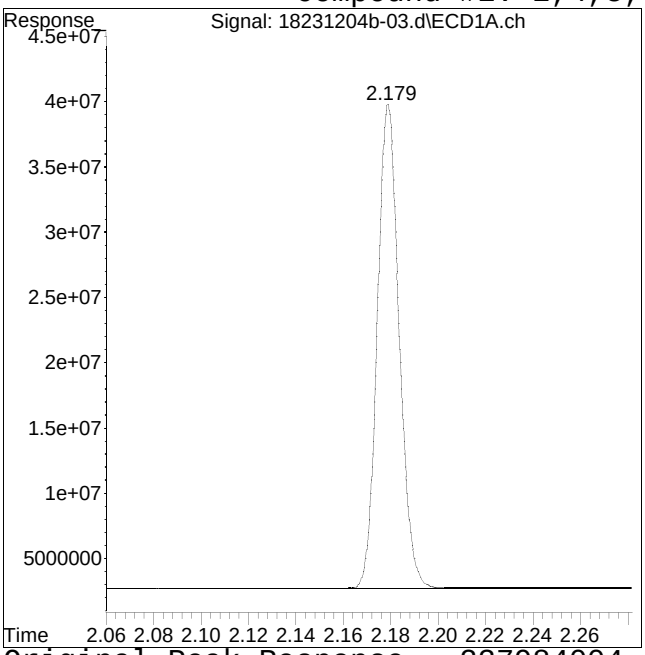


Original Peak Response = 120260347 Manual Peak Response = 119196188 M4
M4 = Poor automated baseline construction.

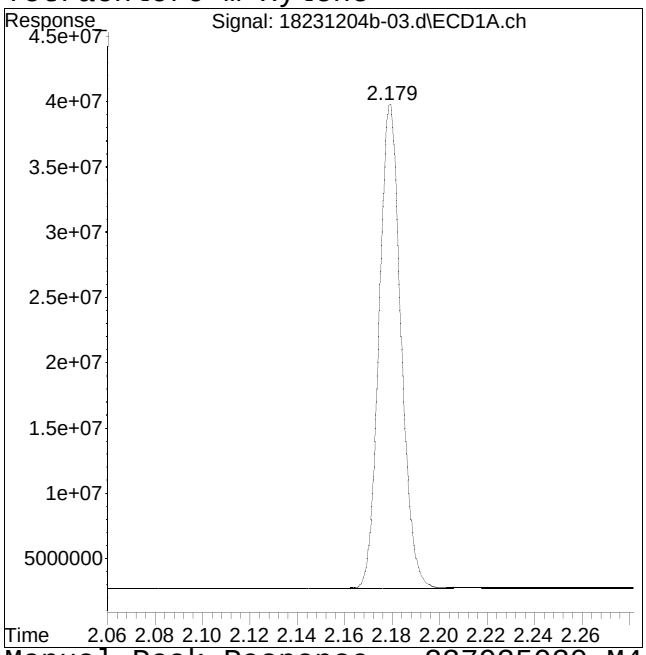
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 237984004



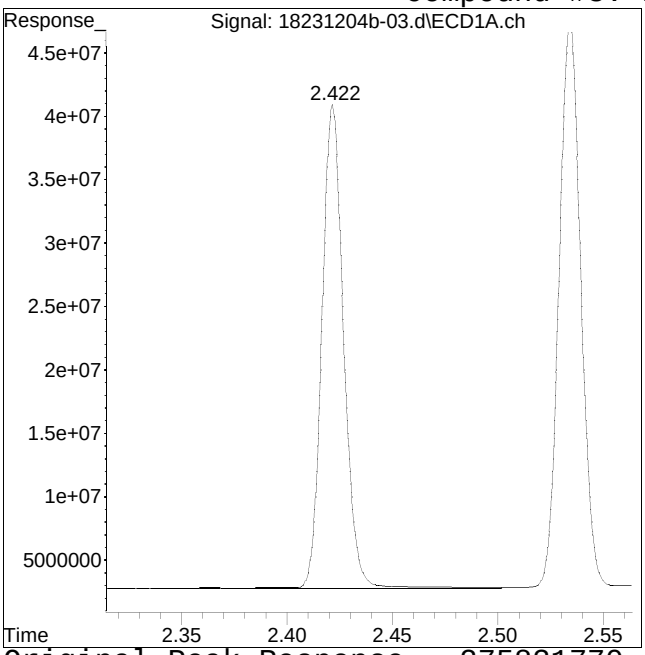
Manual Peak Response = 237935030 M4

M4 = Poor automated baseline construction.

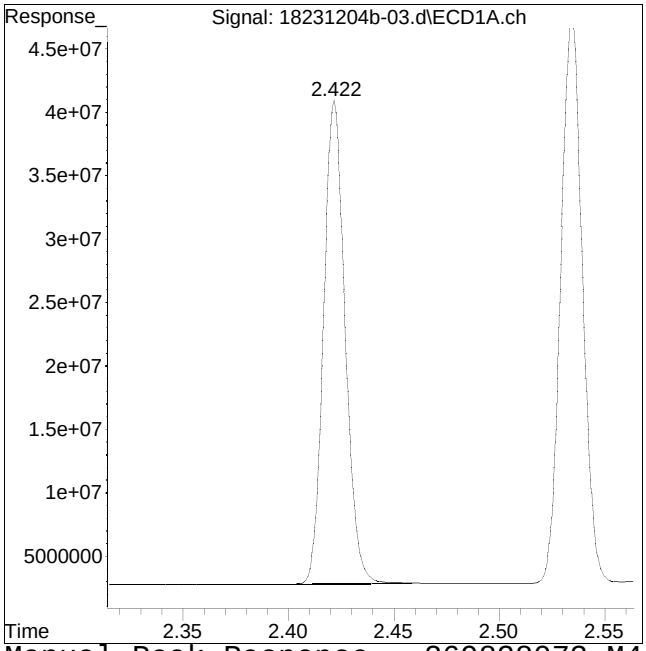
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 275831770

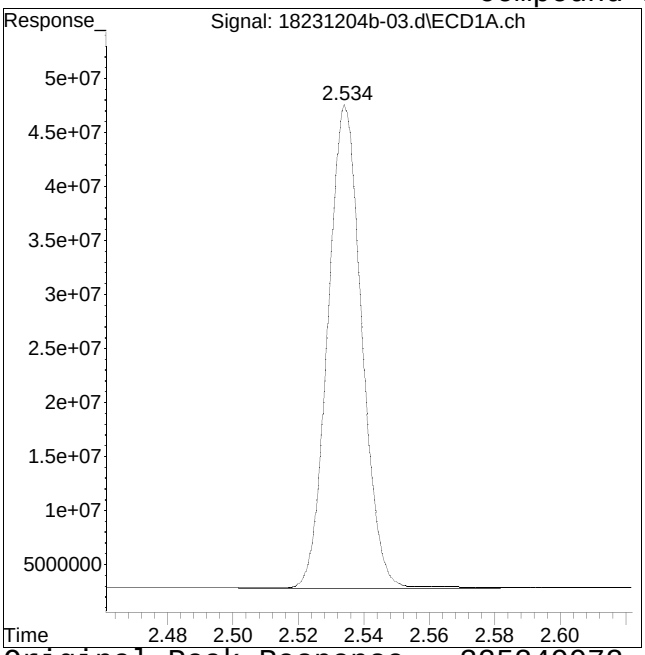


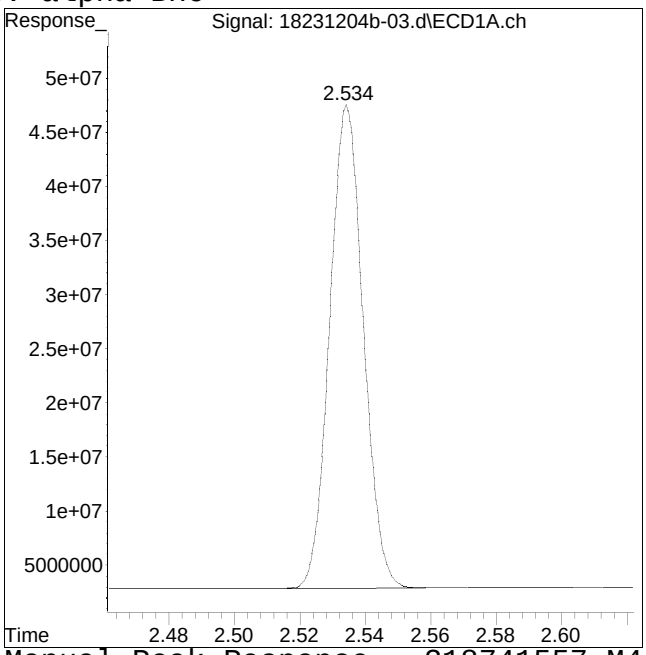
Manual Peak Response = 269838073 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #4: alpha-BHC



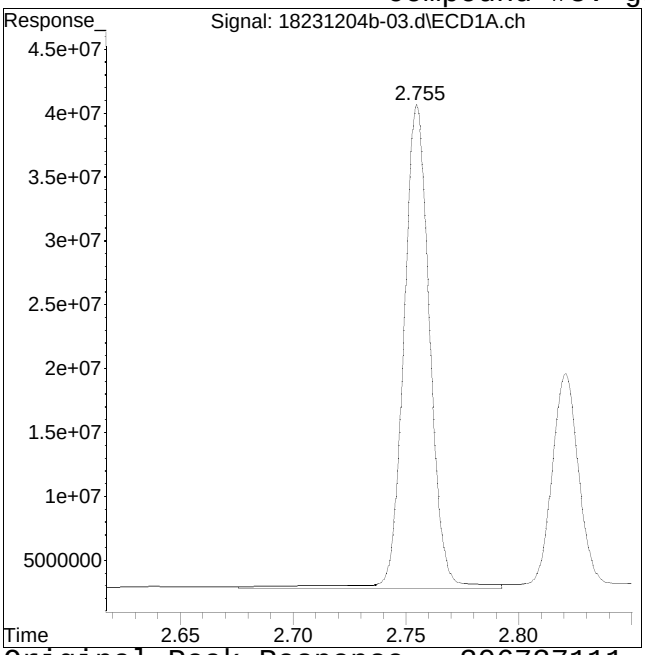


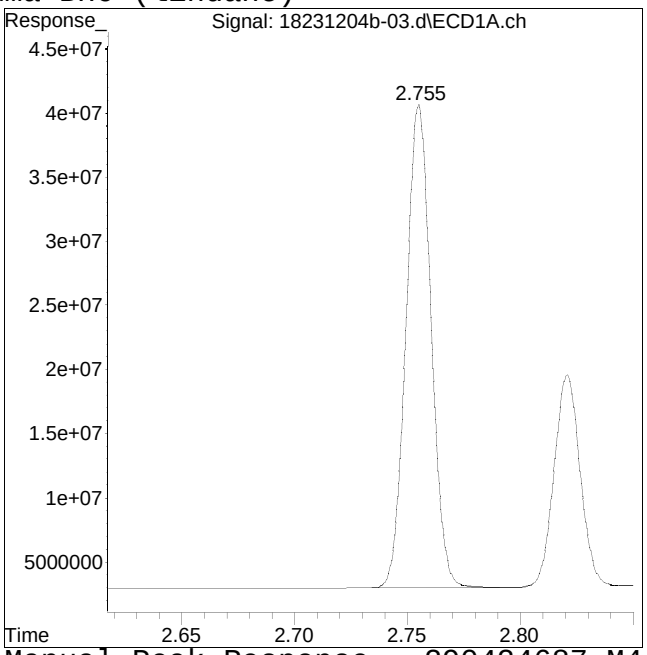
Original Peak Response = 325249972 Manual Peak Response = 318741557 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #5: gamma-BHC (lindane)



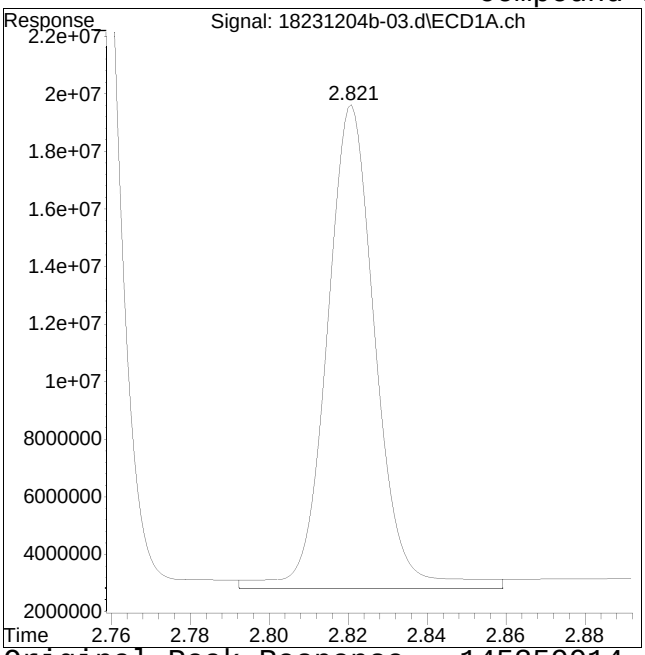


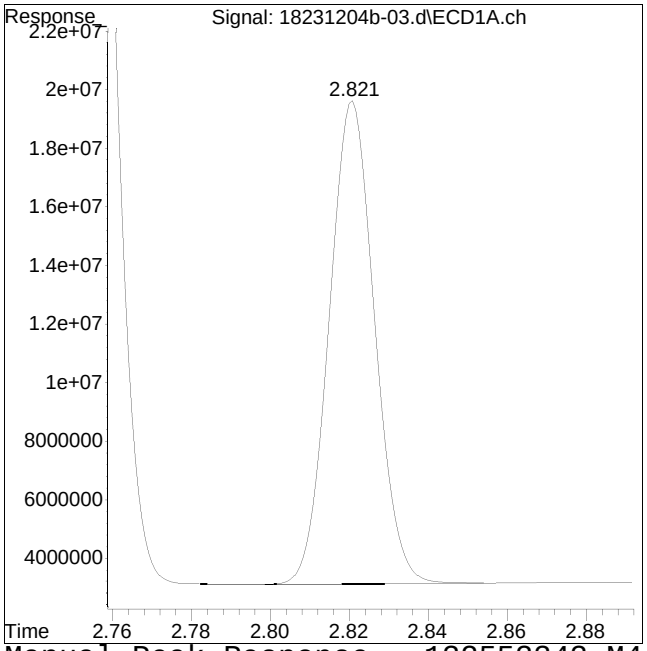
Original Peak Response = 306737111 Manual Peak Response = 290424687 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #6: beta-BHC



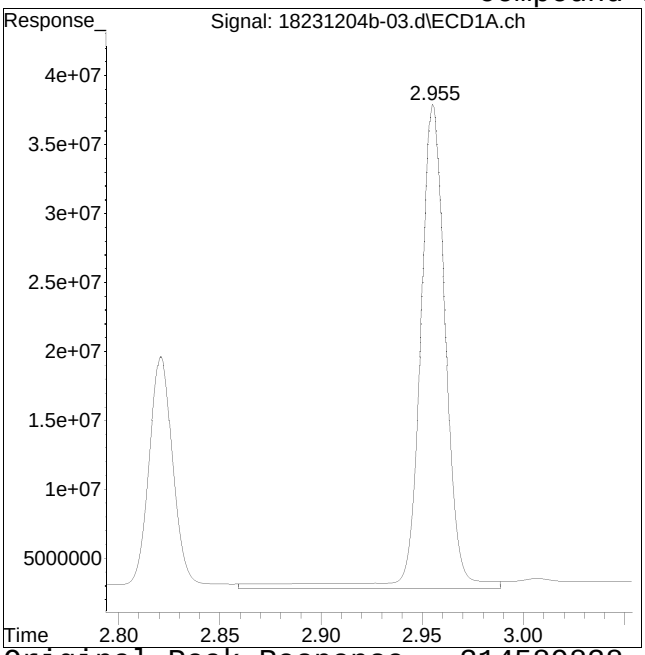


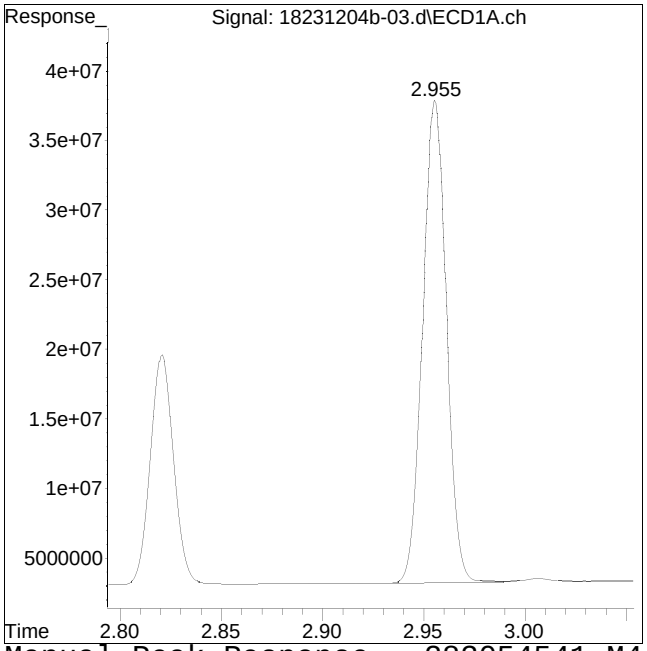
Original Peak Response = 145359914 Manual Peak Response = 132553343 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #7: delta-BHC



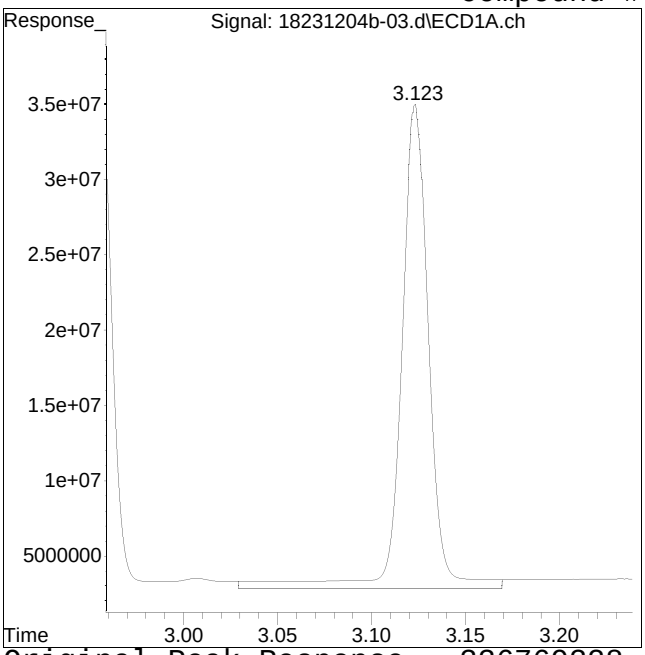


Original Peak Response = 314589838 Manual Peak Response = 283054541 M4
M4 = Poor automated baseline construction.

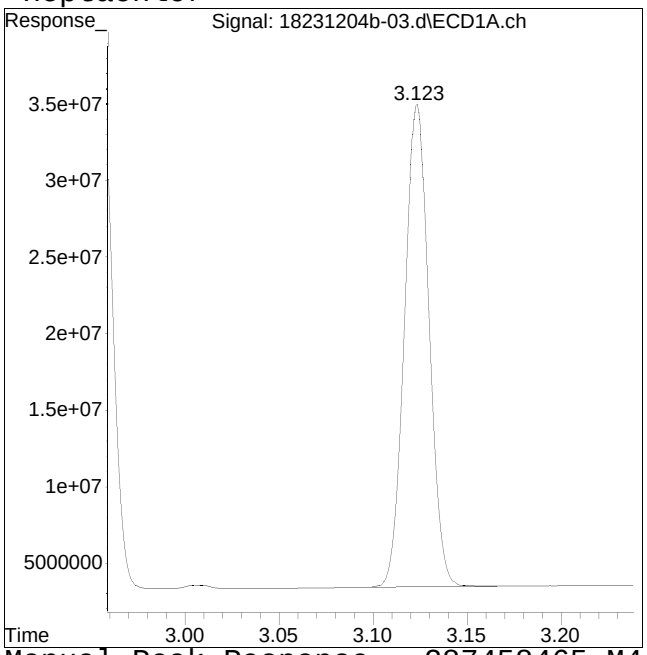
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #8: Heptachlor



Original Peak Response = 336769328



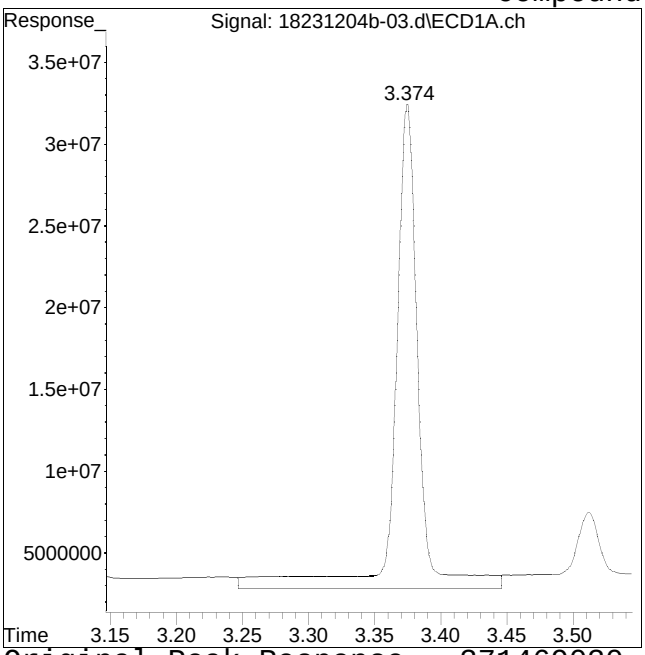
Manual Peak Response = 287458465 M4

M4 = Poor automated baseline construction.

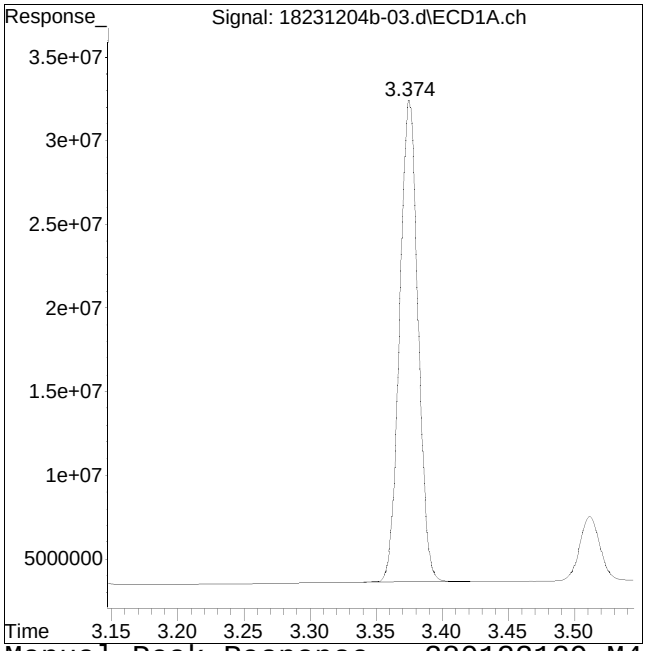
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #9: Aldrin



Original Peak Response = 371469030



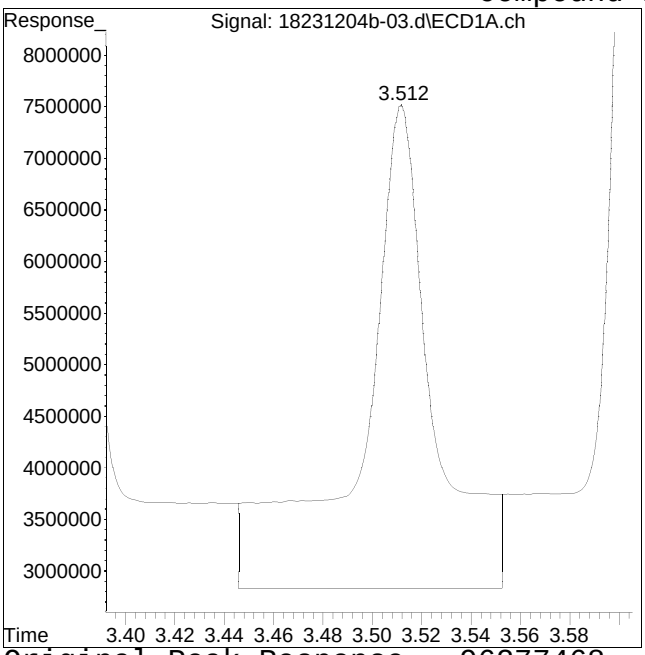
Manual Peak Response = 280123139 M4

M4 = Poor automated baseline construction.

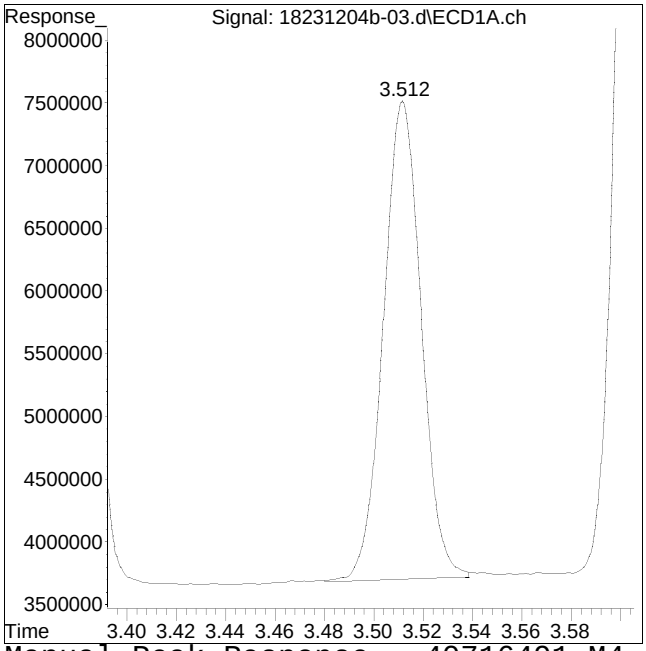
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #10: Alachlor



Original Peak Response = 96277468



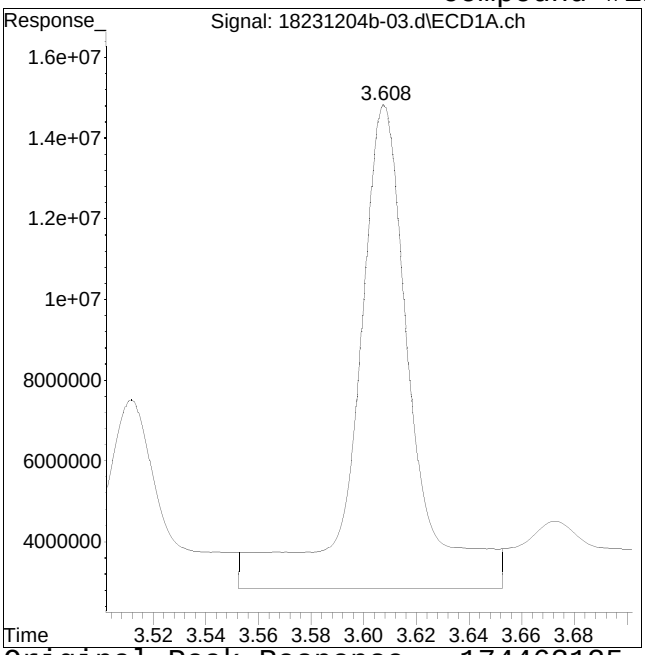
Manual Peak Response = 40716491 M4

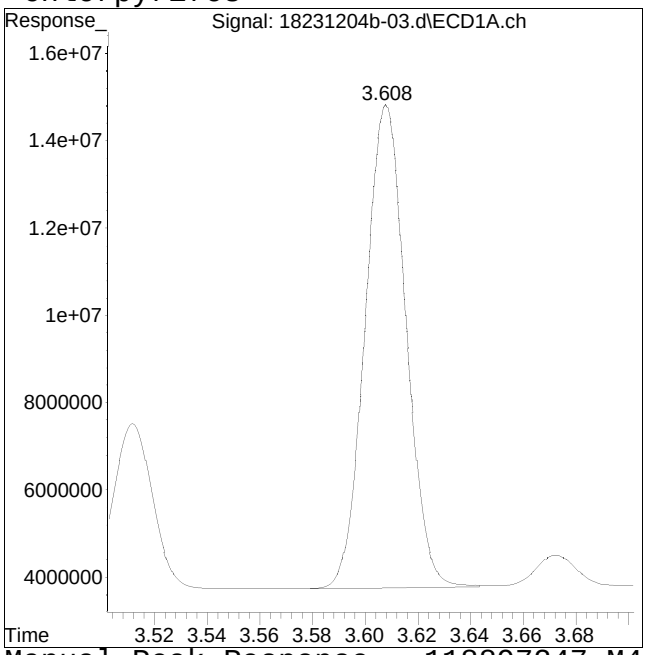
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #11: Chlorpyrifos



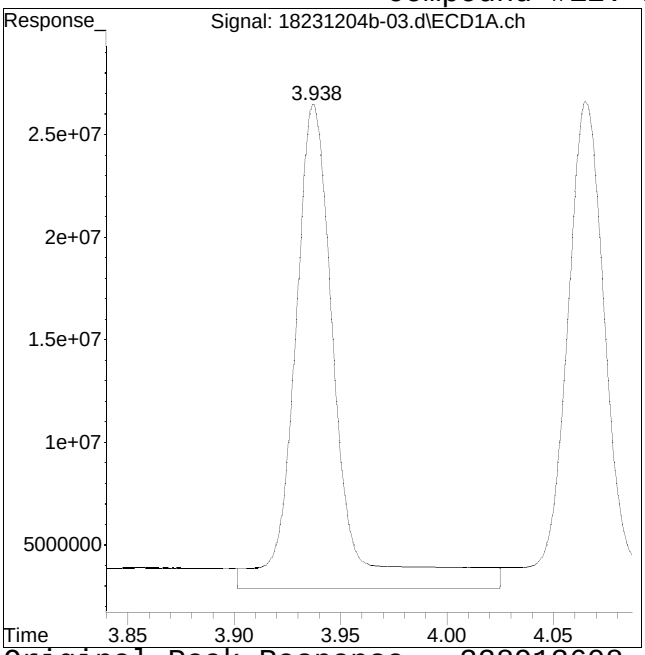


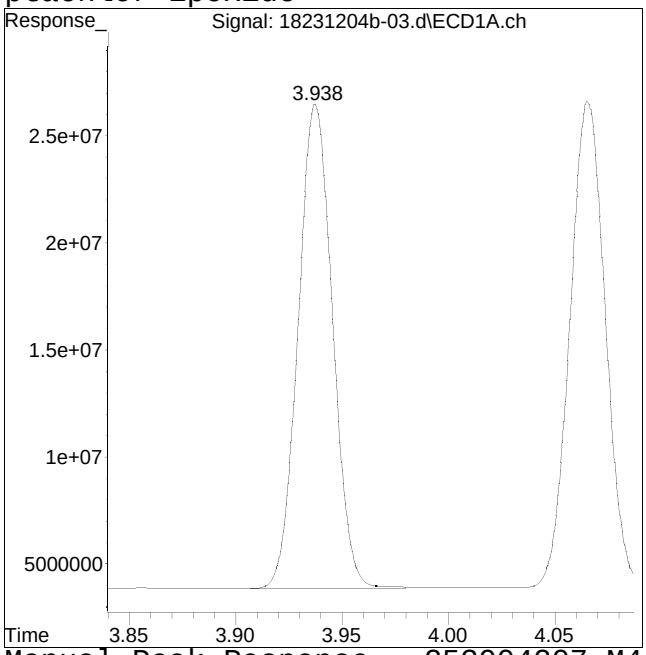
Original Peak Response = 174463125 Manual Peak Response = 118897247 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #12: Heptachlor Epoxide



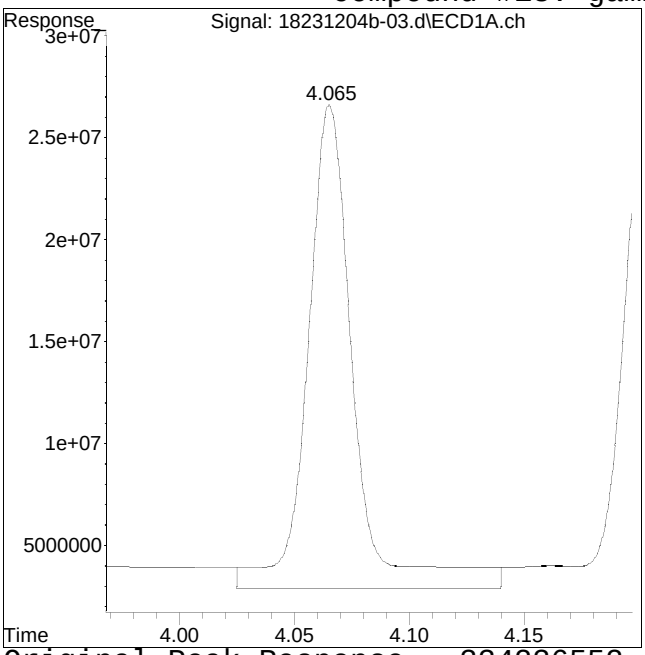


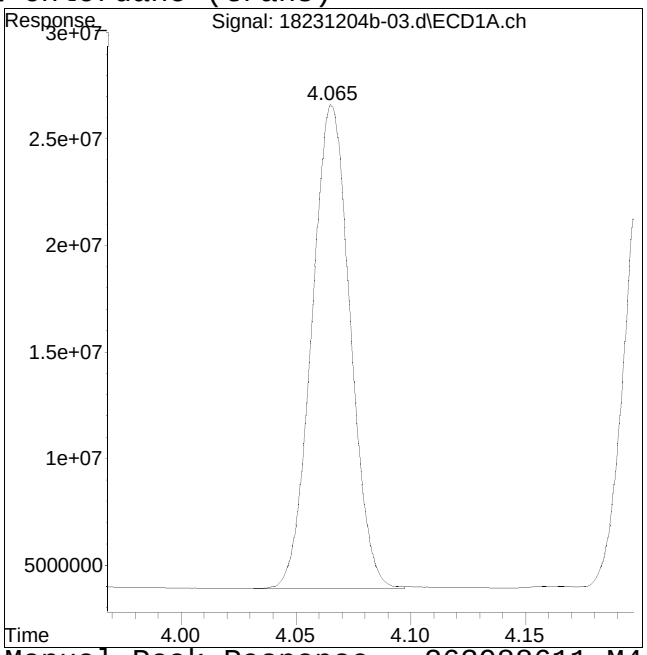
Original Peak Response = 328913608 Manual Peak Response = 253904207 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #13: gamma-Chlordane (trans)



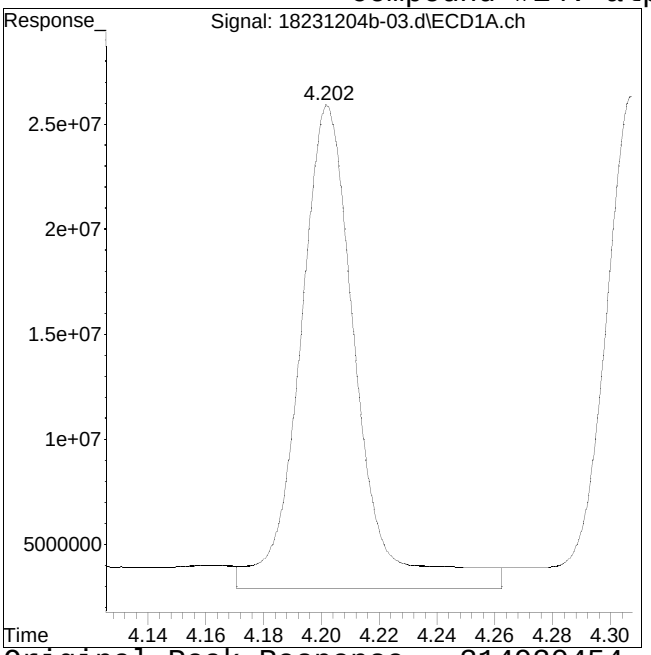


Original Peak Response = 334236552 Manual Peak Response = 263988611 M4
M4 = Poor automated baseline construction.

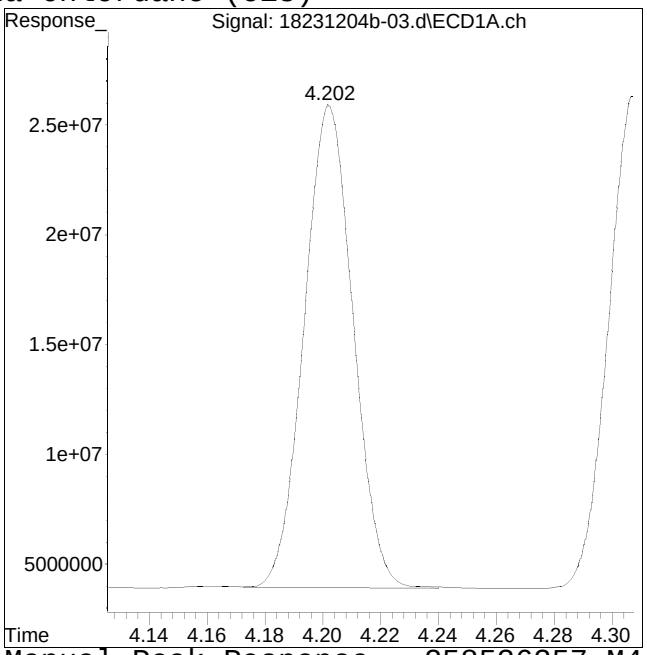
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 314930454

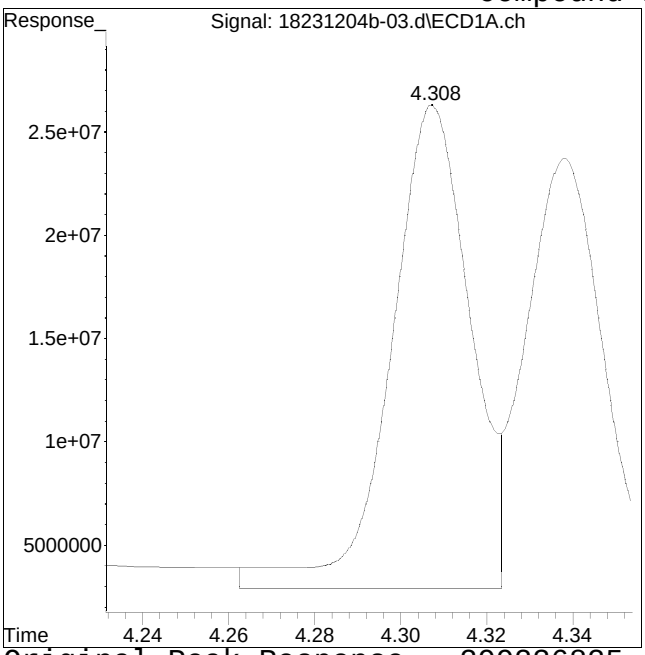


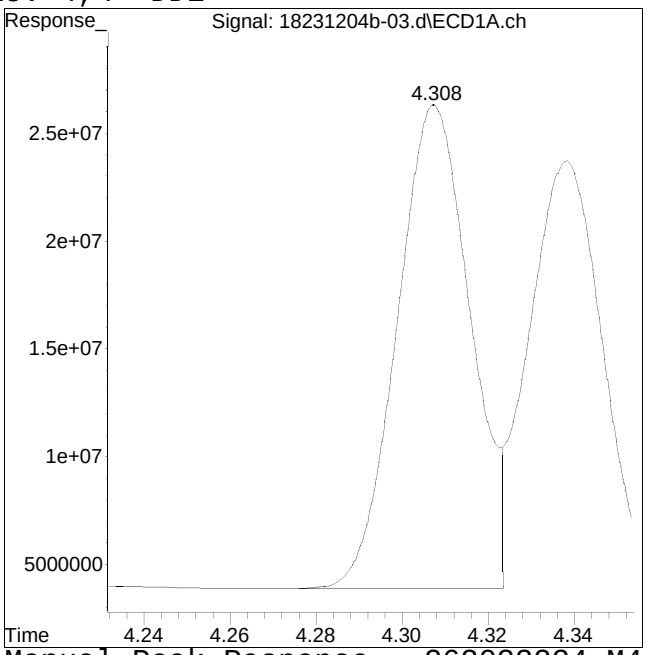
Manual Peak Response = 258536357 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #15: 4,4'-DDE



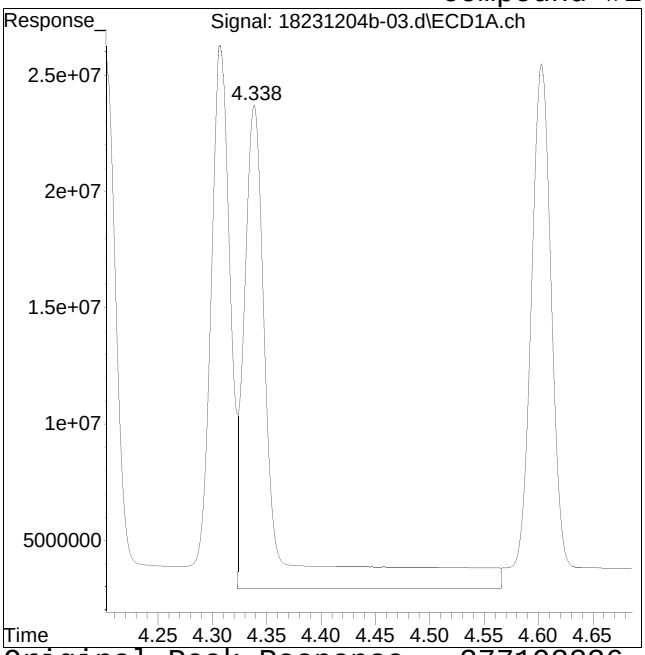


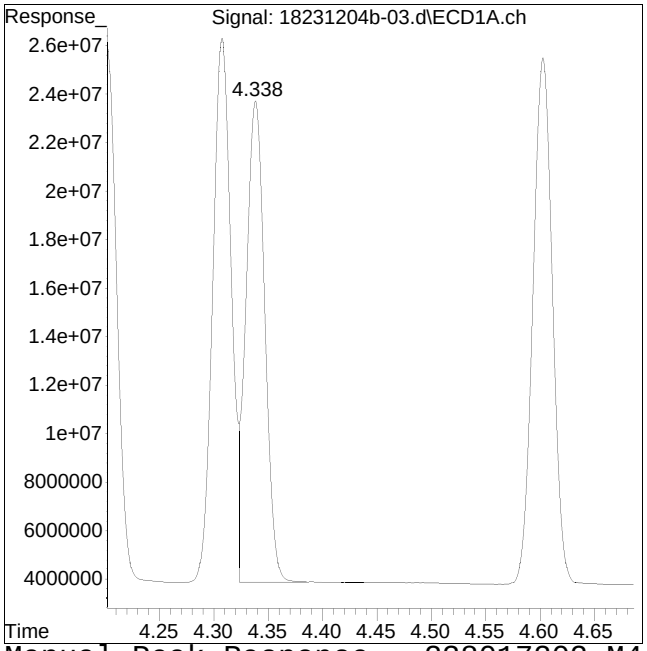
Original Peak Response = 299236825 Manual Peak Response = 262033224 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #16: Endosulfan I



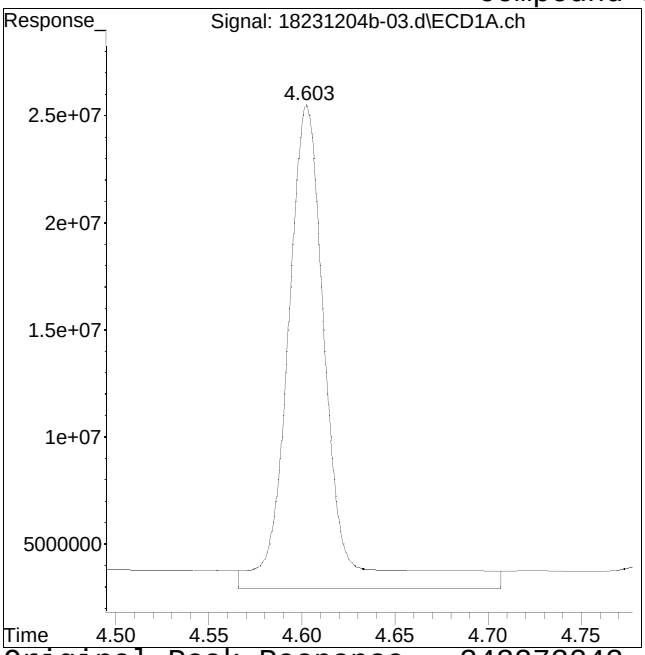


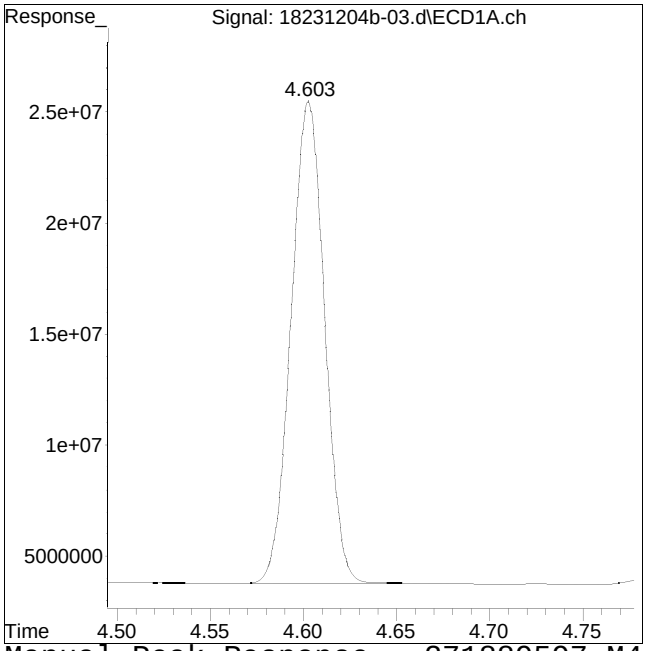
Original Peak Response = 377193336 Manual Peak Response = 238017202 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #17: Dieldrin



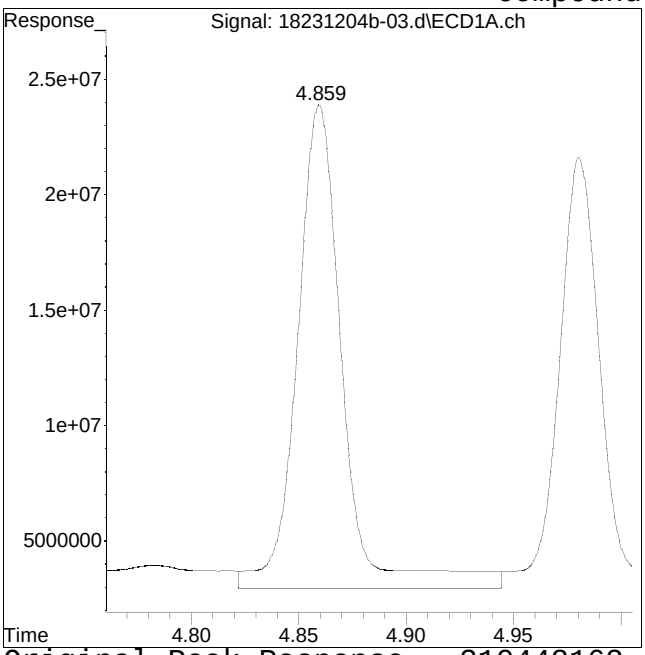


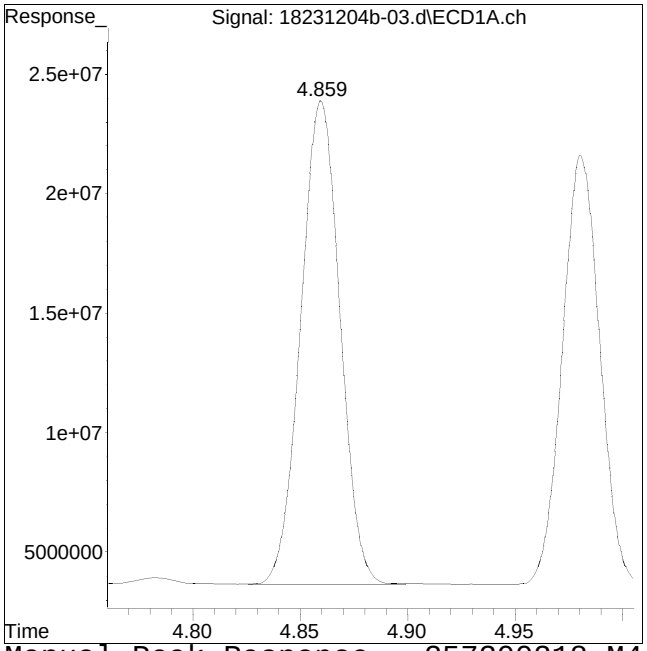
Original Peak Response = 343273243 Manual Peak Response = 271889597 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #18: Endrin



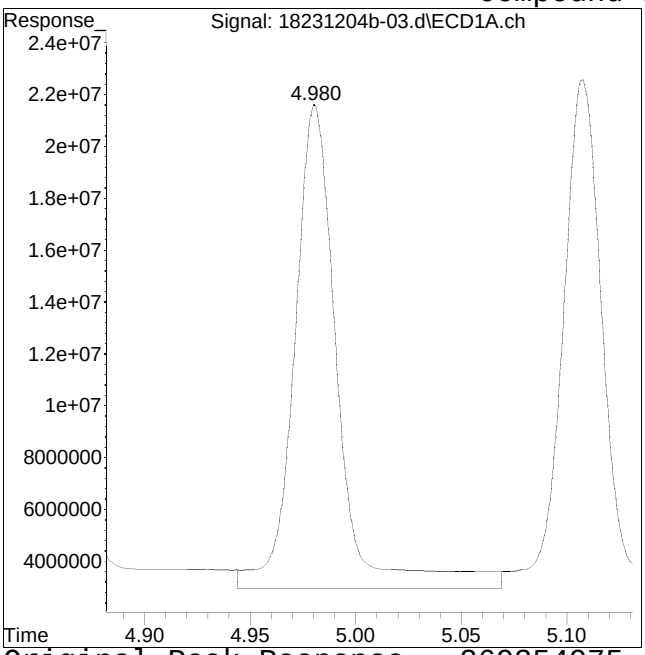


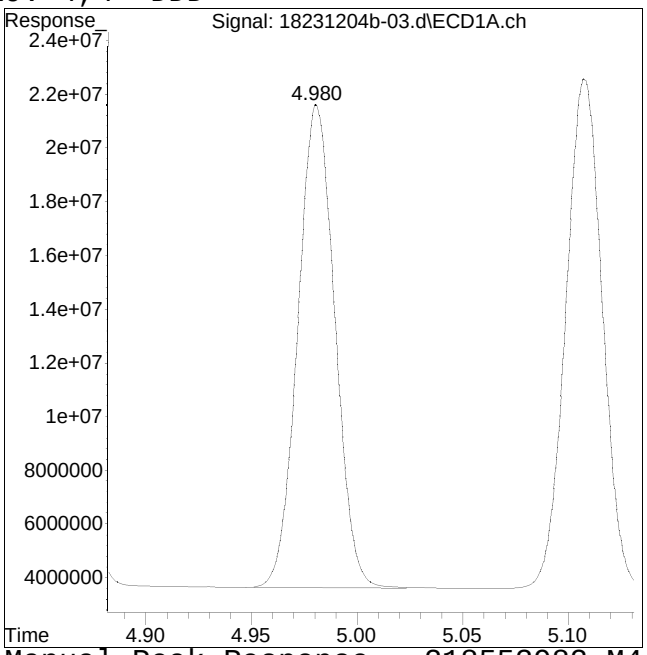
Original Peak Response = 310442162 Manual Peak Response = 257300218 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #19: 4,4'-DDD



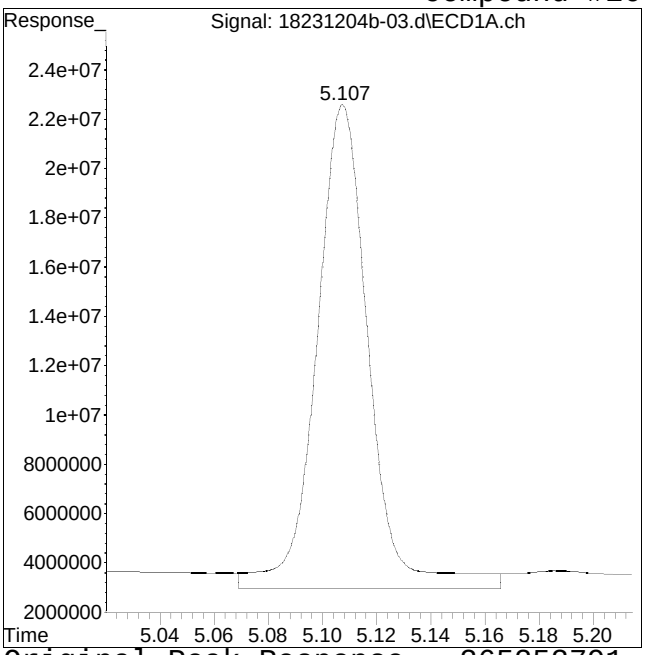


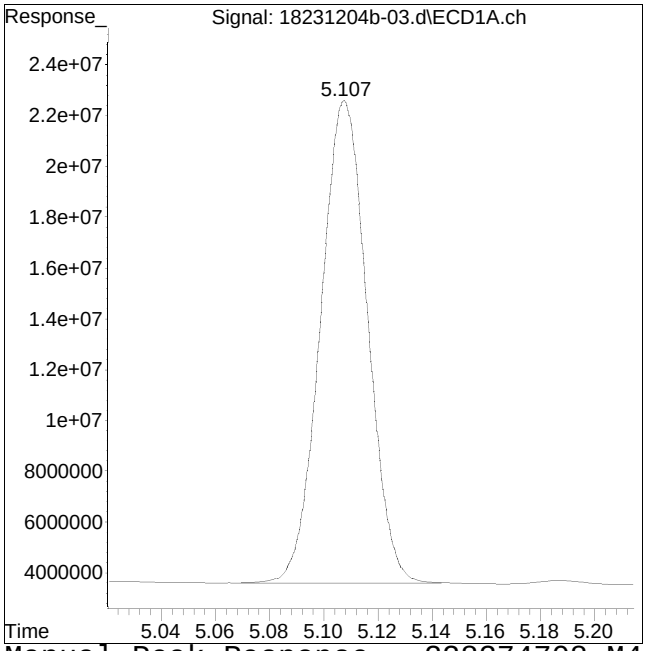
Original Peak Response = 269354975 Manual Peak Response = 218553982 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #20: Endosulfan II



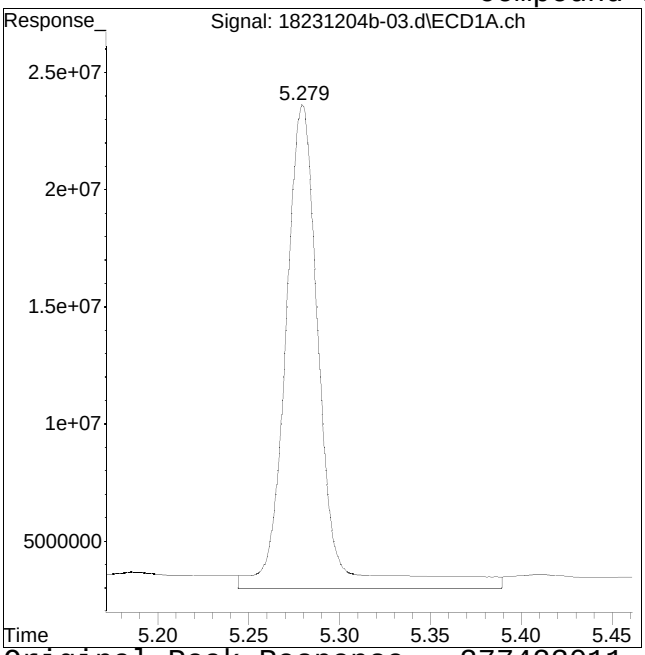


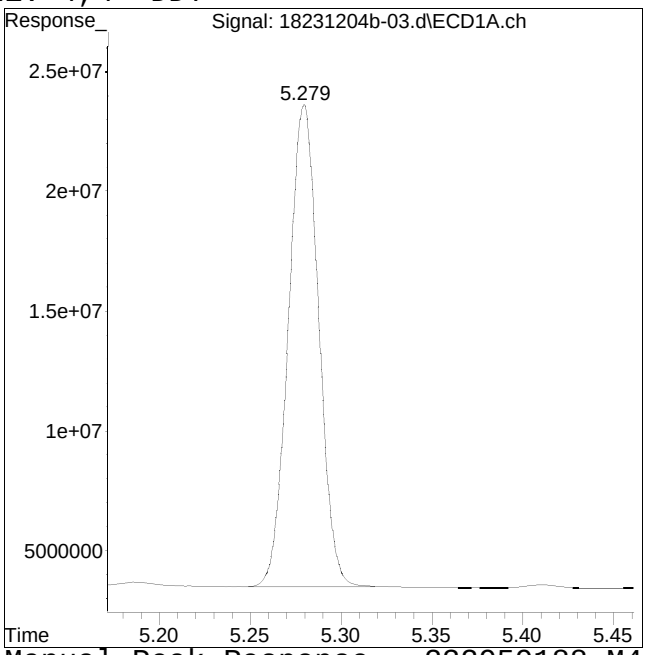
Original Peak Response = 265252791 Manual Peak Response = 228374708 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #21: 4,4'-DDT



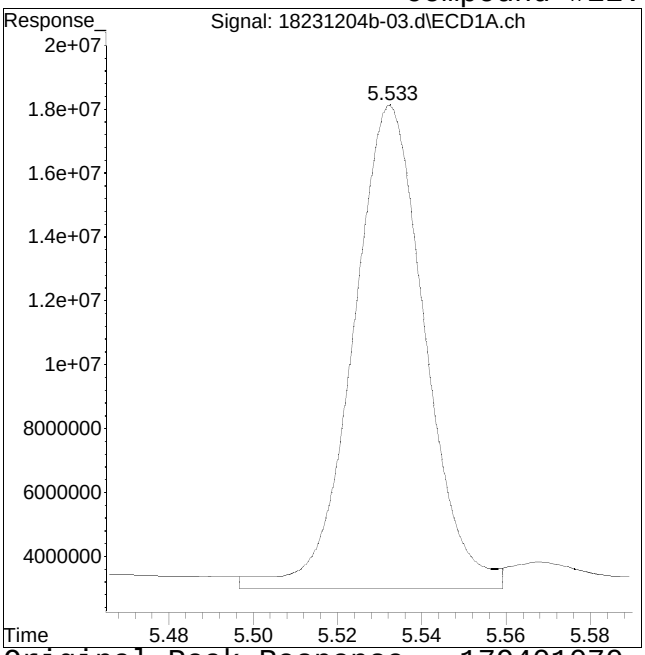


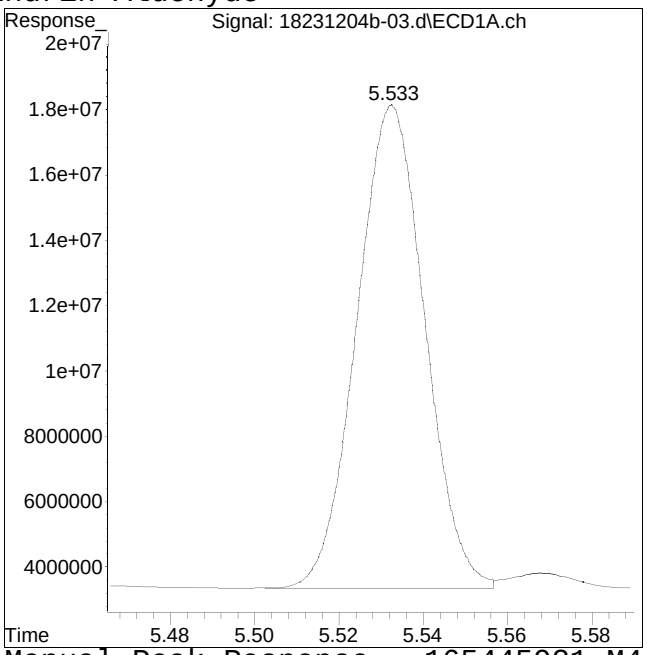
Original Peak Response = 277423011 Manual Peak Response = 232959188 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #22: Endrin Aldehyde



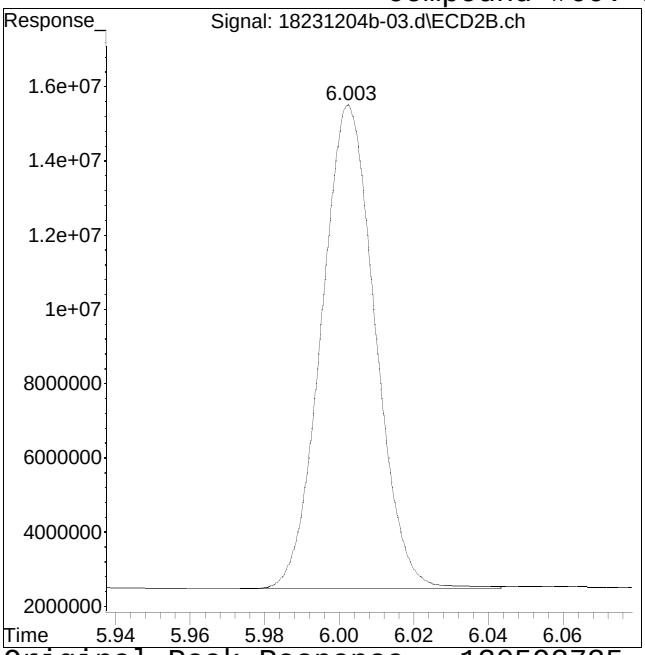


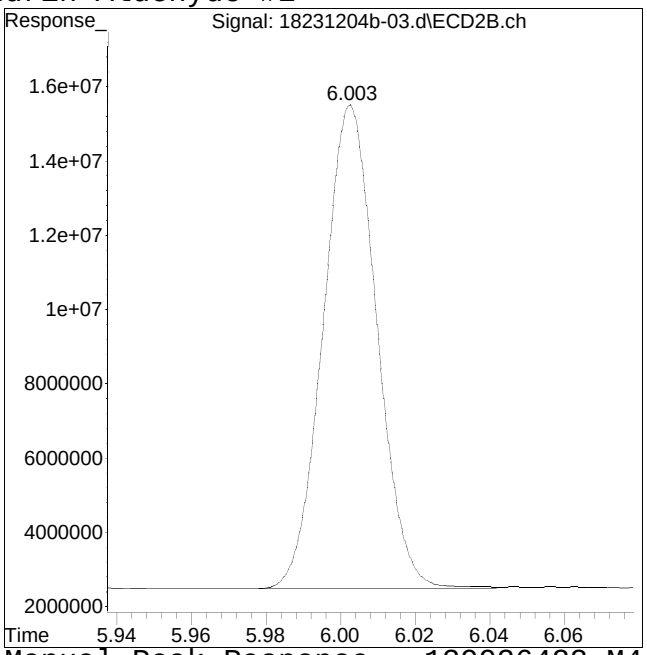
Original Peak Response = 179401070 Manual Peak Response = 165445921 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #60: Endrin Aldehyde #2



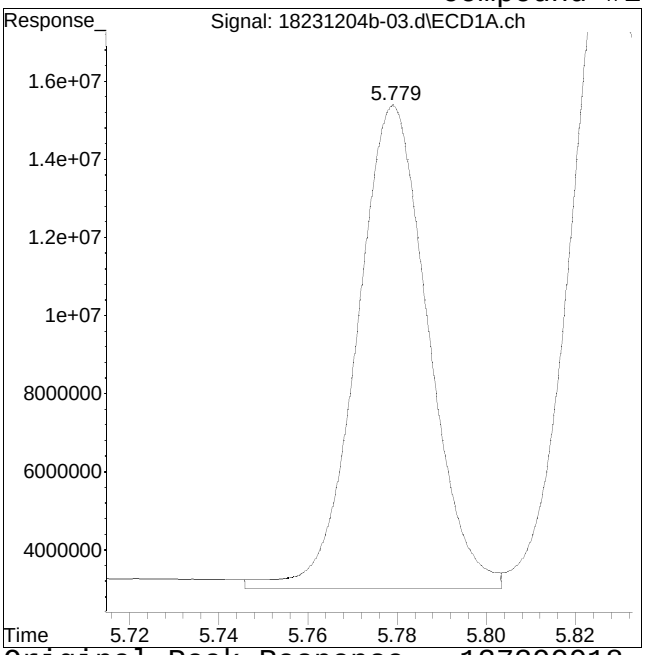


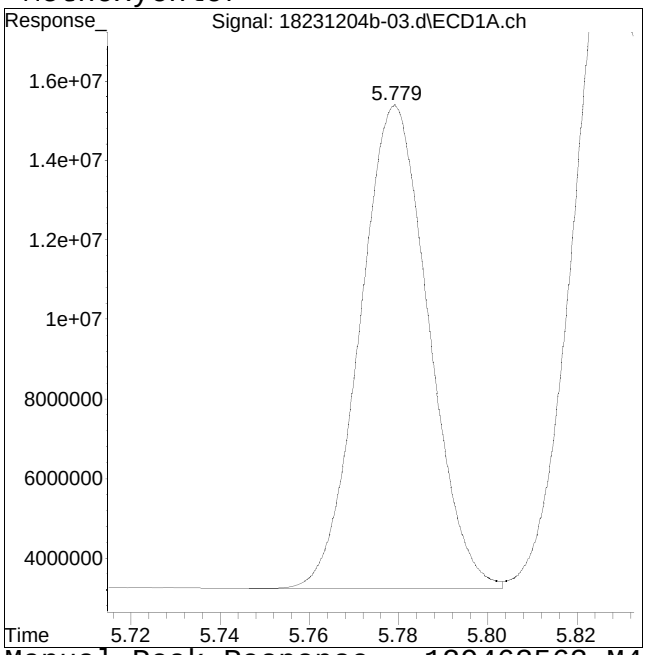
Original Peak Response = 130593735 Manual Peak Response = 129926422 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #23: Methoxychlor



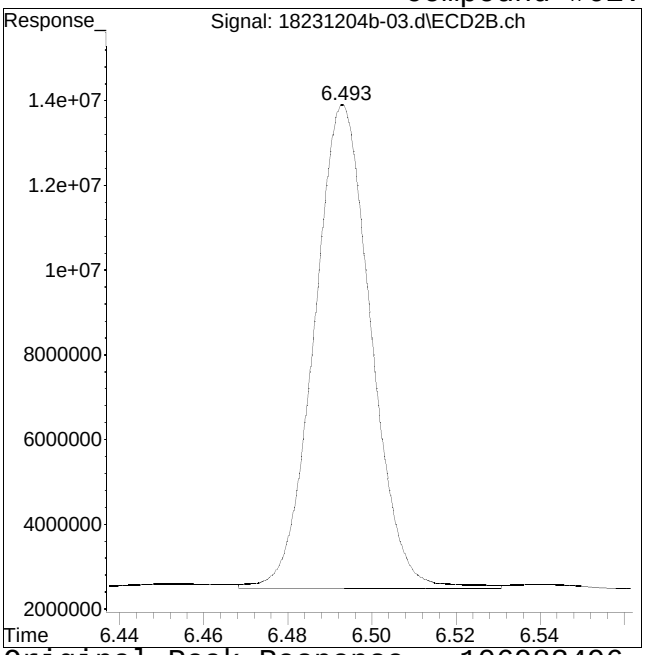


Original Peak Response = 137399918 Manual Peak Response = 129463563 M4
M4 = Poor automated baseline construction.

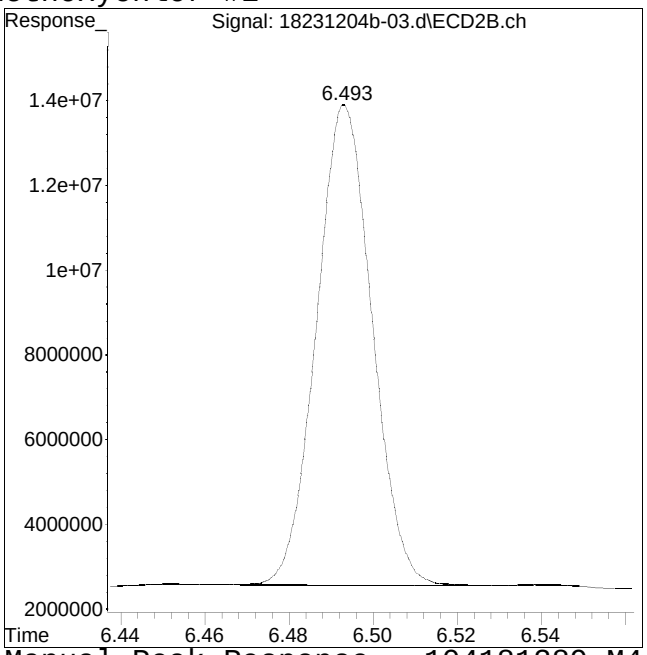
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #61: Methoxychlor #2



Original Peak Response = 106982496



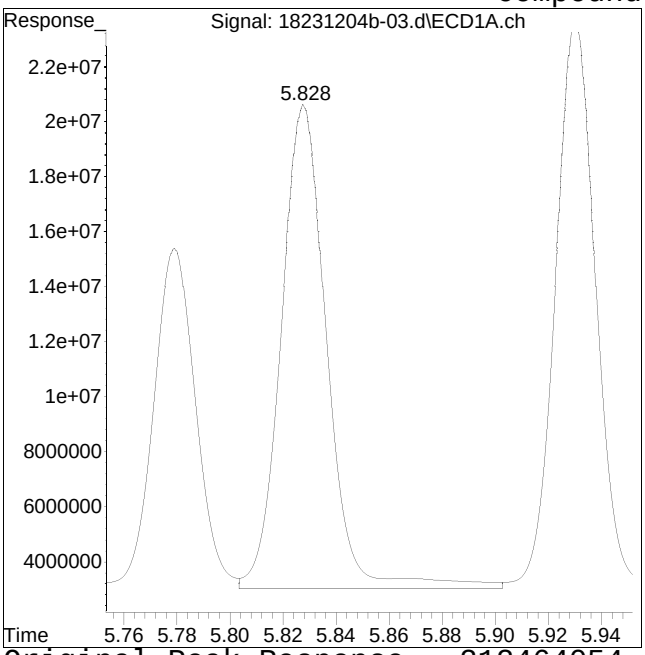
Manual Peak Response = 104181389 M4

M4 = Poor automated baseline construction.

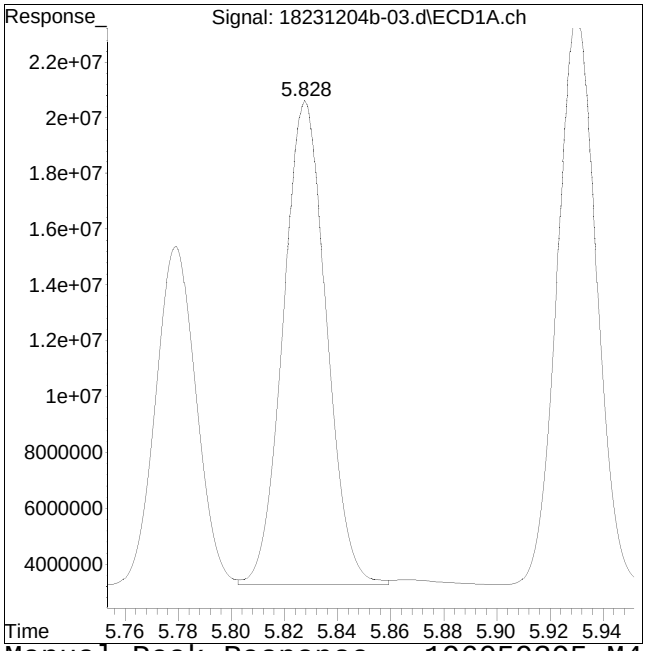
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #24: Mirex



Original Peak Response = 212464054



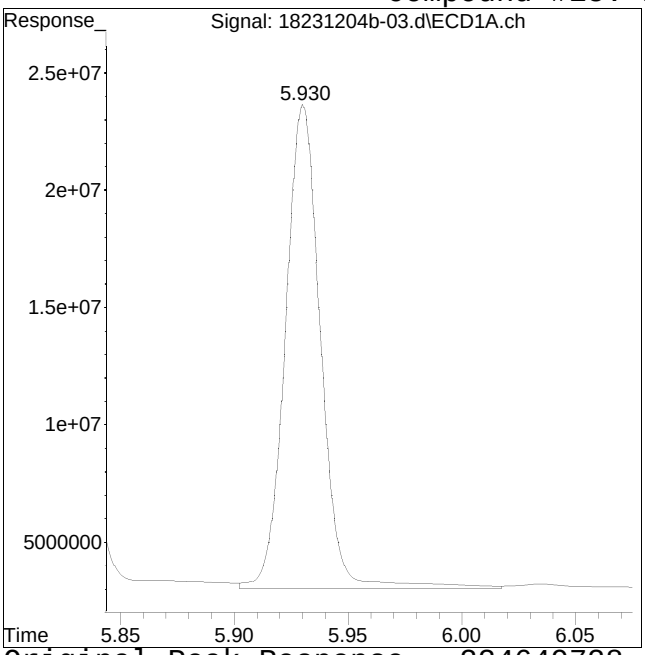
Manual Peak Response = 196059395 M4

M4 = Poor automated baseline construction.

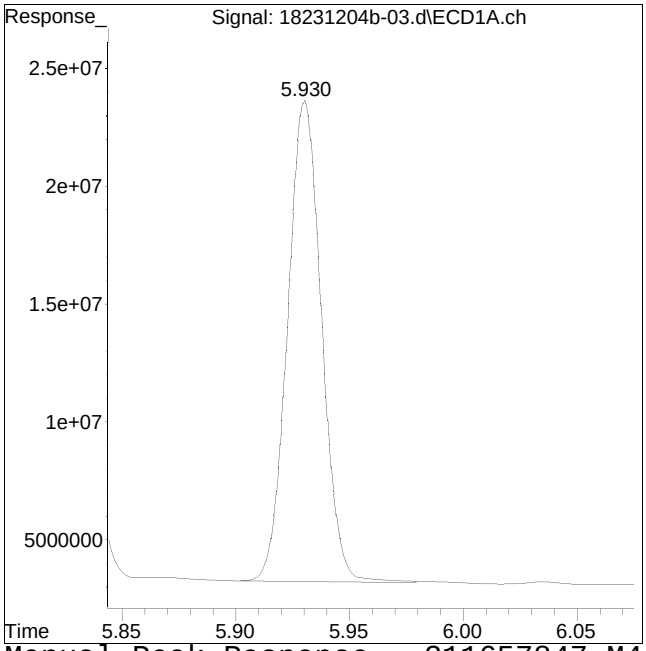
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-03.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:39 pm Instrument : Pest 18
Sample : wg1859540-1,42,,pest11375 Quant Date : 12/4/2023 1:35 pm

Compound #25: Endosulfan Sulfate



Original Peak Response = 224649728



Manual Peak Response = 211657847 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 4 Dec 2023 12:51 pm
Operator : PEST18:akm
Sample   : wg1859540-2,42,,chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc   : wg1859540,,ical20463
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:37:34 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:37:23 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	142	0.00
29	l1	chlordane-1		*1000.000	823.045	17.7	118	0.00
30	l1	chlordane-3		*1000.000	954.299	4.6	132	0.00
31	l1	chlordane-4		*1000.000	978.973	2.1	141	0.00
32	l1	chlordane-5		*1000.000	1089.598	-9.0	157	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	118	0.00
29	l1	chlordane-1		*1000.000	891.459	10.9	106	0.00
30	l1	chlordane-3		*1000.000	976.873	2.3	112	0.00
31	l1	chlordane-4		*1000.000	964.288	3.6	116	0.00
32	l1	chlordane-5		*1000.000	938.826	6.1	113	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.75#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-2.18#
3		Hexachlorobenzene		1.174	0.000	100.0#	0#	-2.42#
4		alpha-BHC		1.316	0.000	100.0#	0#	-2.53#
5		gamma-BHC (lindane)		1.215	0.000	100.0#	0#	-2.75#
6		beta-BHC		* 50.000	0.000	100.0#	0	-2.82#
7		delta-BHC		1.244	0.000	100.0#	0#	-2.96#
8		Heptachlor		1.195	0.000	100.0#	0#	-3.12#
9		Aldrin		1.142	0.000	100.0#	0#	-3.37#
10		Alachlor		0.203	0.000	100.0#	0#	-3.51#
11		Chlorpyrifos		0.610	0.000	100.0#	0#	-3.61#
12		Heptachlor Epoxide		1.116	0.000	100.0#	0#	-3.94#
13		gamma-Chlordane (trans)		1.128	0.000	100.0#	0#	-4.07#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 4 Dec 2023 12:51 pm
Operator : PEST18:akm
Sample   : wg1859540-2,42,,chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc   : wg1859540,,ical20463
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:37:34 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:37:23 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.194	0.000	100.0#	0#	-4.20#
15		4,4'-DDE		1.124	0.000	100.0#	0#	-4.31#
16		Endosulfan I		1.059	0.000	100.0#	0#	-4.34#
17		Dieldrin	*	50.000	0.000	100.0#	0	-4.60#
18		Endrin		1.154	0.000	100.0#	0#	-4.86#
19		4,4'-DDD		0.903	0.000	100.0#	0#	-4.98#
20		Endosulfan II		1.017	0.000	100.0#	0#	-5.11#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.28#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.53#
23		Methoxychlor		0.412	0.000	100.0#	0#	-5.78#
24		Mirex		0.948	0.000	100.0#	0#	-5.83#
25		Endosulfan Sulfate		0.950	0.000	100.0#	0#	-5.93#
26		Endrin Ketone		0.935	0.000	100.0#	0#	-6.16#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.97#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.75#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.10#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-5.22#
36	l2	toxaphene-3	*	2000.000	0.000	100.0#	0	-5.46#
37	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-5.84#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.79#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.057	0.000	100.0#	0#	-2.34#
3		Hexachlorobenzene		1.244	0.000	100.0#	0#	-2.68#
4		alpha-BHC		1.350	0.000	100.0#	0#	-2.79#
5		gamma-BHC (lindane)		1.263	0.000	100.0#	0#	-3.08#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.15#
7		delta-BHC		1.271	0.000	100.0#	0#	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 4 Dec 2023 12:51 pm
Operator : PEST18:akm
Sample   : wg1859540-2,42,,chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc   : wg1859540,,ical20463
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:37:34 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:37:23 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.245	0.000	100.0#	0#	-3.48#
9		Aldrin		1.183	0.000	100.0#	0#	-3.80#
10		Alachlor		0.184	0.000	100.0#	0#	-3.69#
11		Chlorpyrifos		0.647	0.000	100.0#	0#	-4.05#
12		Heptachlor Epoxide		1.169	0.000	100.0#	0#	-4.41#
13		gamma-Chlordane (trans)		1.066	0.000	100.0#	0#	-4.63#
14		alpha-Chlordane (cis)		1.208	0.000	100.0#	0#	-4.81#
15		4,4'-DDE		1.171	0.000	100.0#	0#	-5.02#
16		Endosulfan I		1.099	0.000	100.0#	0#	-4.87#
17		Dieldrin		1.119	0.000	100.0#	0#	-5.18#
18		Endrin		1.129	0.000	100.0#	0#	-5.49#
19		4,4'-DDD		0.941	0.000	100.0#	0#	-5.63#
20		Endosulfan II		1.038	0.000	100.0#	0#	-5.70#
21		4,4'-DDT		0.822	0.000	100.0#	0#	-5.91#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.00#
23		Methoxychlor		0.462	0.000	100.0#	0#	-6.49#
24		Mirex	*	50.000	0.000	100.0#	0	-6.62#
25		Endosulfan Sulfate		0.991	0.000	100.0#	0#	-6.24#
26		Endrin Ketone		0.975	0.000	100.0#	0#	-6.66#
27	s	Decachlorobiphenyl		0.992	0.000	100.0#	0#	-7.54#
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	0	-1.79#
34	l2	toxaphene-1	*	2000.000	0.000	100.0#	0	-5.68#
35	l2	toxaphene-2	*	2000.000	0.000	100.0#	0	-5.77#
36	l2	toxaphene-3	*	2000.000	0.000	100.0#	0	-6.01#
37	l2	toxaphene-4	*	2000.000	0.000	100.0#	0	-6.43#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 12:51 pm
Operator : PEST18:akm
Sample : wg1859540-2,42,,chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc : wg1859540,,ical20463
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:37:34 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:37:23 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.745	1.792	124.2E6	90727429	25.000M4	25.000M3
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 12:51 pm
Operator : PEST18:akm
Sample : wg1859540-2,42,,chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc : wg1859540,,ical20463
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:37:34 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:37:23 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.123	3.343	241.1E6	117.1E6	823.045M4	891.459
30) l1	chlordane-3	3.495	3.954	190.5E6	128.1E6	954.299M4	976.873
31) l1	chlordane-4	4.066	4.633	673.6E6	466.6E6	978.973M4	964.288
32) l1	chlordane-5	4.194	4.808	1151.2E6	366.2E6	1089.598M4	938.826
Sum	chlordane-1			2256.4E6	1078.1E6	N.D.	N.D. D
Average	chlordane-1					961.479	942.861
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

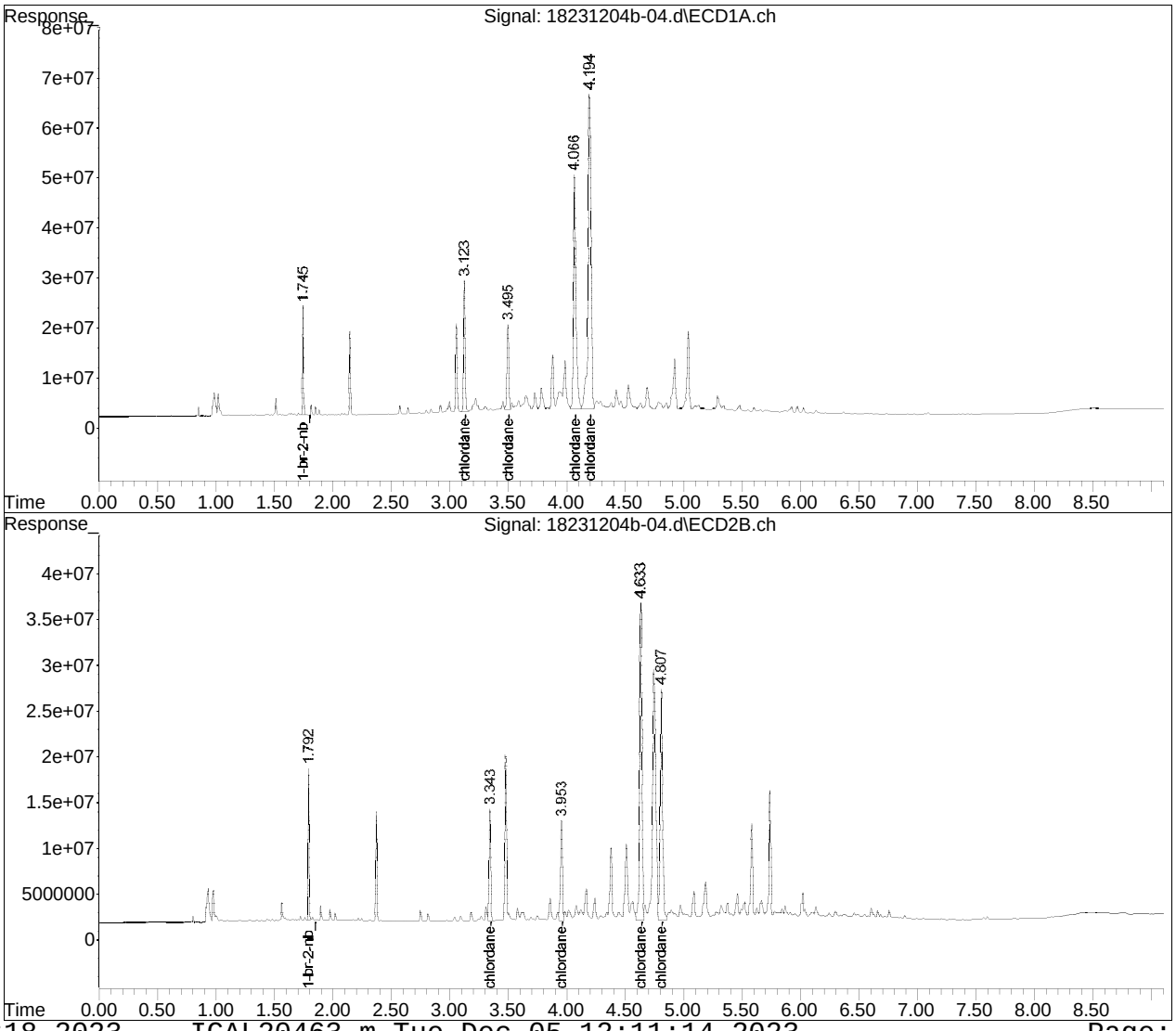
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 12:51 pm
Operator : PEST18:akm
Sample : wg1859540-2,42,,chlor11308 (Sig #1); chlor11308 (Sig #2)
Misc : wg1859540,,ical20463
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:37:34 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:37:23 2023
Response via : Initial Calibration
Integrator: ChemStation

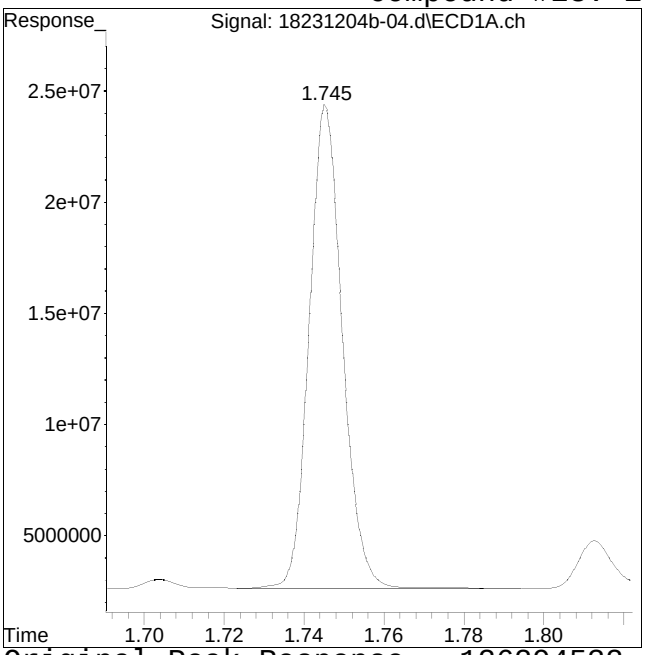
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

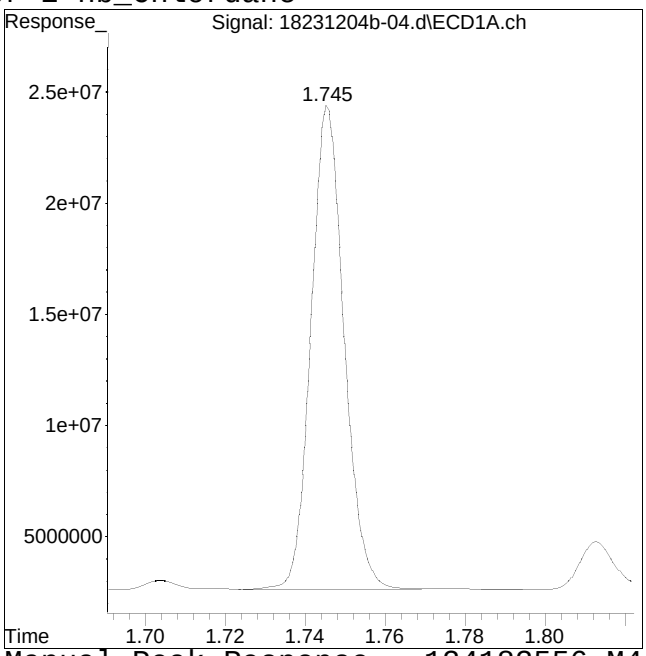


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-04.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:51 pm Instrument : Pest 18
Sample : wg1859540-2,42,,chlor11308Quant Date : 12/4/2023 1:37 pm

Compound #28: 1-br-2-nb_Chlordane



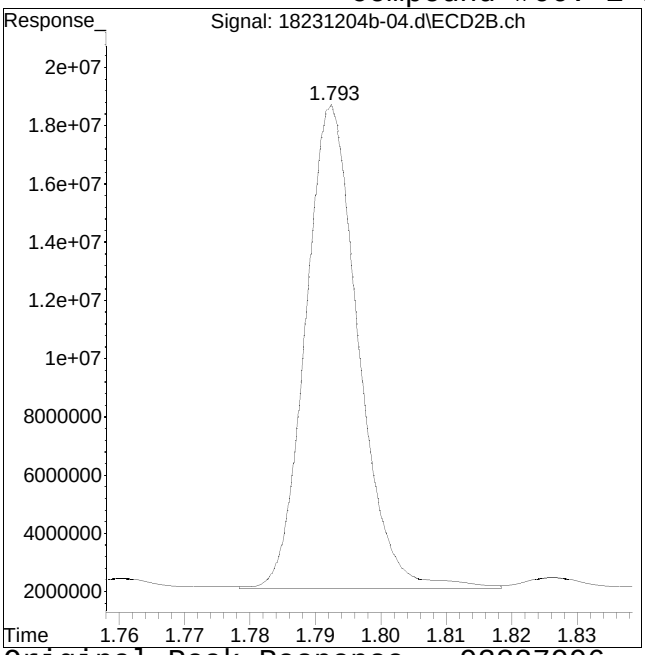


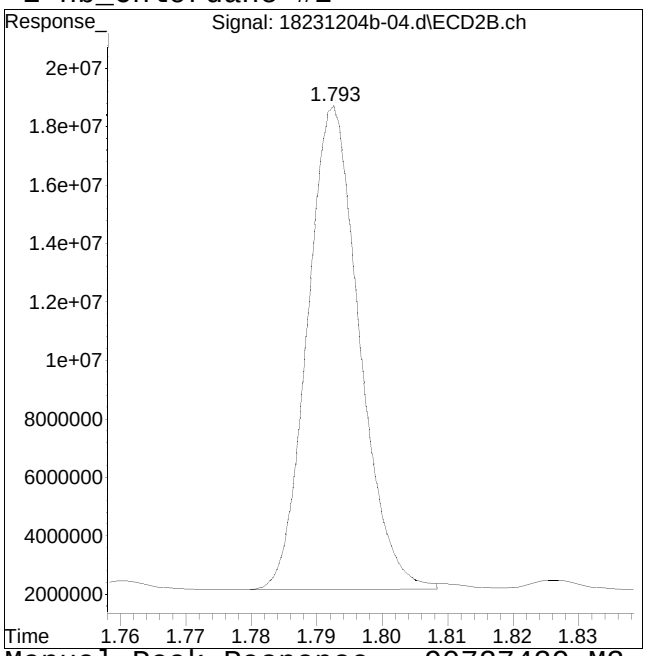
Original Peak Response = 126294532 Manual Peak Response = 124183556 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-04.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:51 pm Instrument : Pest 18
Sample : wg1859540-2,42,,chlor11308Quant Date : 12/4/2023 1:37 pm

Compound #66: 1-br-2-nb_Chlordane #2



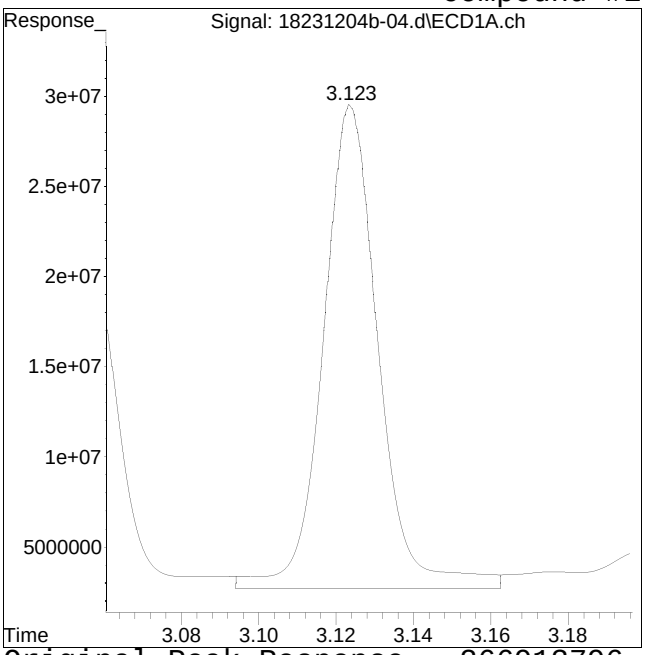


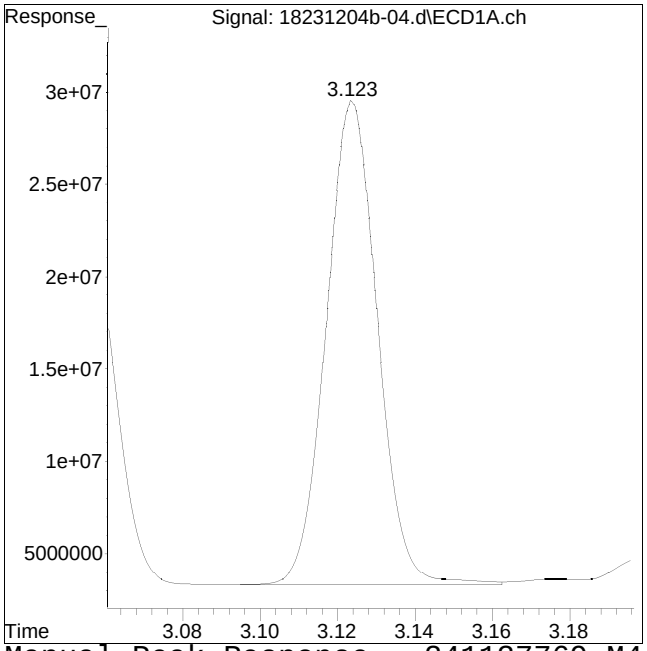
Original Peak Response = 93327996 Manual Peak Response = 90727429 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-04.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:51 pm Instrument : Pest 18
Sample : wg1859540-2,42,,chlor11308Quant Date : 12/4/2023 1:37 pm

Compound #29: chlordane-1



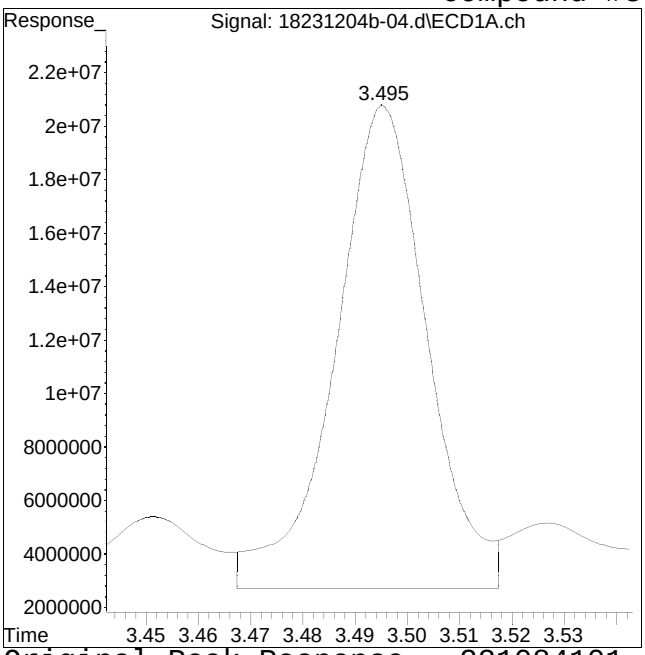


Original Peak Response = 266913796 Manual Peak Response = 241137769 M4
M4 = Poor automated baseline construction.

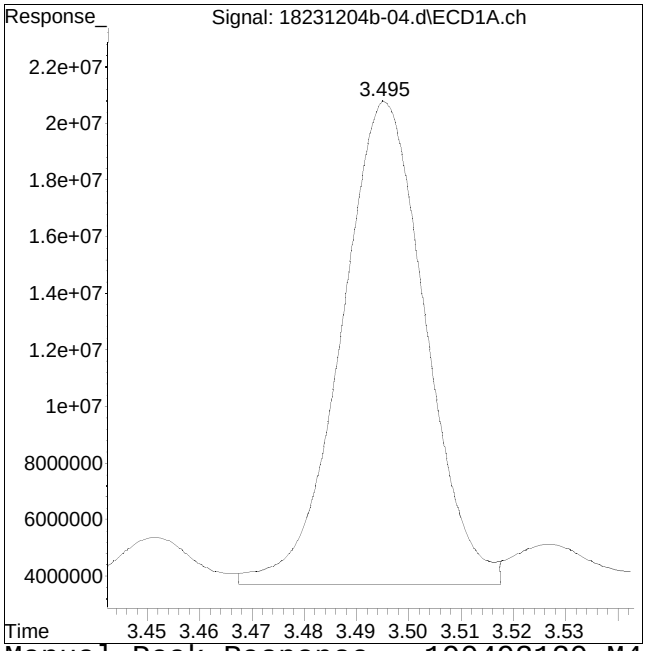
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-04.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:51 pm Instrument : Pest 18
Sample : wg1859540-2,42,,chlor11308Quant Date : 12/4/2023 1:37 pm

Compound #30: chlordane-3



Original Peak Response = 221084101



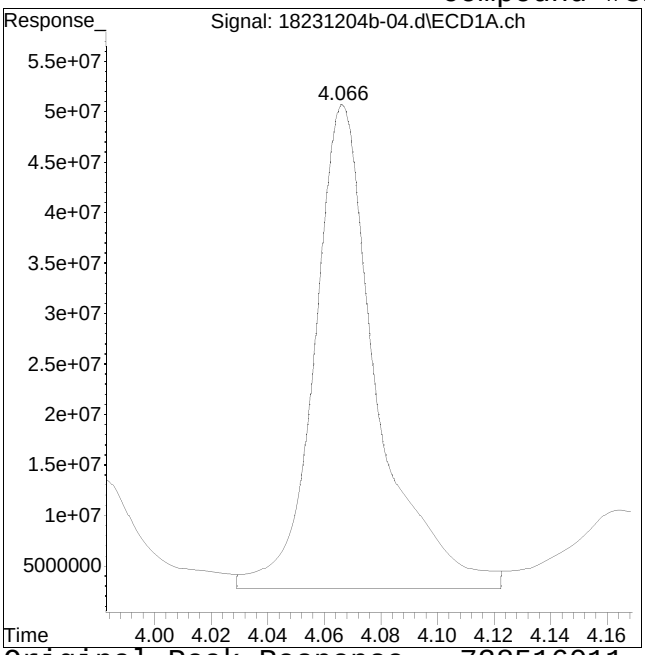
Manual Peak Response = 190493120 M4

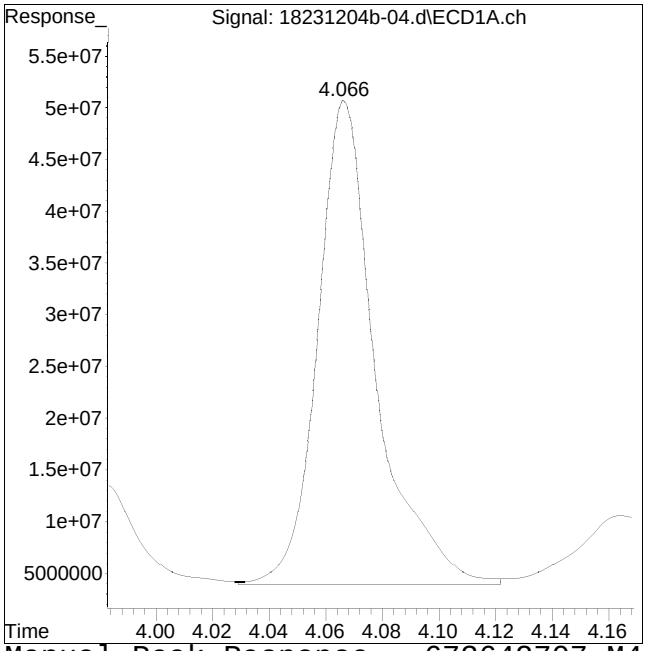
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-04.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:51 pm Instrument : Pest 18
Sample : wg1859540-2,42,,chlor11308Quant Date : 12/4/2023 1:37 pm

Compound #31: chlordane-4



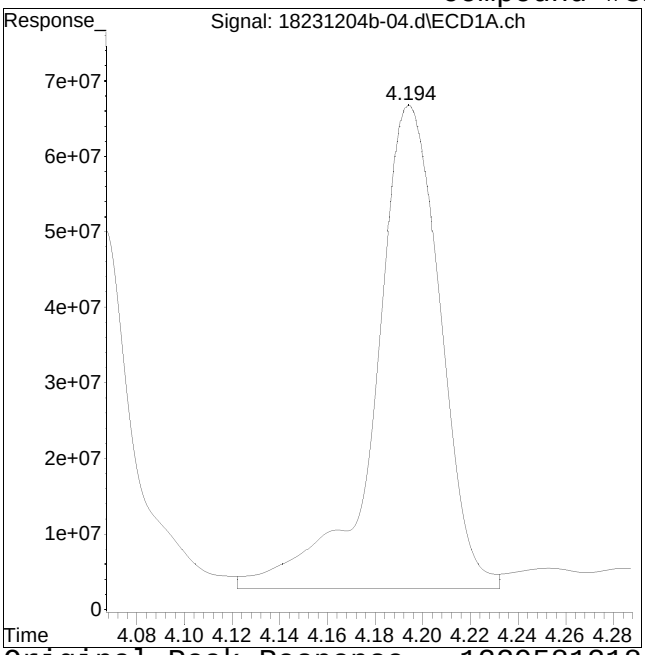


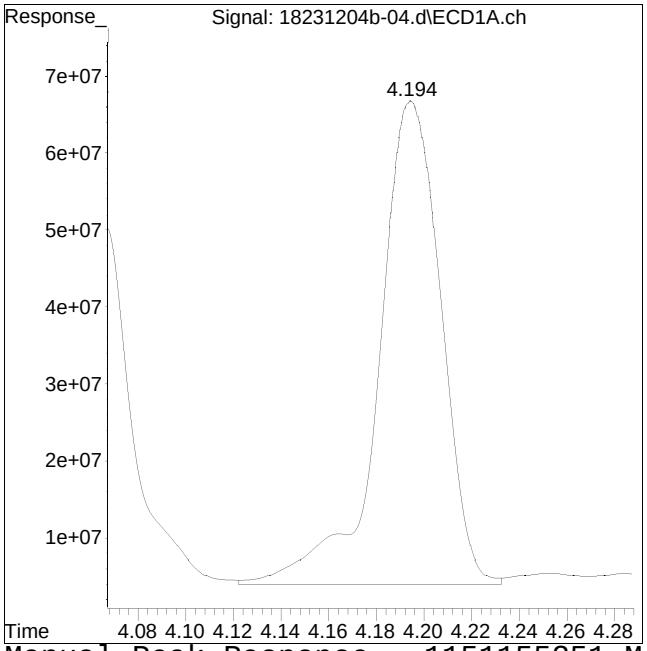
Original Peak Response = 738516011 Manual Peak Response = 673642707 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-04.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:51 pm Instrument : Pest 18
Sample : wg1859540-2,42,,chlor11308Quant Date : 12/4/2023 1:37 pm

Compound #32: chlordane-5





Original Peak Response = 1229581218 Manual Peak Response = 1151155251 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 4 Dec 2023   1:02 pm
Operator : PEST18:akm
Sample   : wg1859540-3,42,,tox11371 (Sig #1); tox11371 (Sig #2)
Misc   : wg1859540,,ical20463
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:39:34 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	135	0.00
34	l2	toxaphene-1		*2000.000	2291.826	-14.6	149	0.00
35	l2	toxaphene-2		*2000.000	2207.610	-10.4	147	0.00
36	l2	toxaphene-3		*2000.000	2162.659	-8.1	144	0.00
37	l2	toxaphene-4		*2000.000	2246.711	-12.3	151	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	^	1.000	1.000	0.0	116	0.00
34	l2	toxaphene-1		*2000.000	2183.447	-9.2	124	0.00
35	l2	toxaphene-2		*2000.000	2234.093	-11.7	128	0.00
36	l2	toxaphene-3		*2000.000	2306.078	-15.3	132	0.00
37	l2	toxaphene-4		*2000.000	2474.547	-23.7#	144	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.75#
2	s	2,4,5,6-Tetrachloro-m-xylen		1.039	0.000	100.0#	0#	-2.18#
3		Hexachlorobenzene		1.174	0.000	100.0#	0#	-2.42#
4		alpha-BHC		1.316	0.000	100.0#	0#	-2.53#
5		gamma-BHC (lindane)		1.215	0.000	100.0#	0#	-2.75#
6		beta-BHC		* 50.000	0.000	100.0#	0	-2.82#
7		delta-BHC		1.244	0.000	100.0#	0#	-2.96#
8		Heptachlor		1.195	0.000	100.0#	0#	-3.12#
9		Aldrin		1.142	0.000	100.0#	0#	-3.37#
10		Alachlor		0.203	0.000	100.0#	0#	-3.51#
11		Chlorpyrifos		0.610	0.000	100.0#	0#	-3.61#
12		Heptachlor Epoxide		1.116	0.000	100.0#	0#	-3.94#
13		gamma-Chlordane (trans)		1.128	0.000	100.0#	0#	-4.07#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 4 Dec 2023   1:02 pm
Operator : PEST18:akm
Sample   : wg1859540-3,42,,tox11371 (Sig #1); tox11371 (Sig #2)
Misc   : wg1859540,,ical20463
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:39:34 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)		1.194	0.000	100.0#	0#	-4.20#
15		4,4'-DDE		1.124	0.000	100.0#	0#	-4.31#
16		Endosulfan I		1.059	0.000	100.0#	0#	-4.34#
17		Dieldrin	*	50.000	0.000	100.0#	0	-4.60#
18		Endrin		1.154	0.000	100.0#	0#	-4.86#
19		4,4'-DDD		0.903	0.000	100.0#	0#	-4.98#
20		Endosulfan II		1.017	0.000	100.0#	0#	-5.11#
21		4,4'-DDT	*	50.000	0.000	100.0#	0	-5.28#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-5.53#
23		Methoxychlor		0.412	0.000	100.0#	0#	-5.78#
24		Mirex		0.948	0.000	100.0#	0#	-5.83#
25		Endosulfan Sulfate		0.950	0.000	100.0#	0#	-5.93#
26		Endrin Ketone		0.935	0.000	100.0#	0#	-6.16#
27	s	Decachlorobiphenyl	*	50.000	0.000	100.0#	0	-6.97#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.75#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.12#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.50#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.07#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.19#

Signal #2

1	i	1-br-2-nb_Pesticides	^	1.000	1.000	0.0	0	-1.79#
2	s	2,4,5,6-Tetrachloro-m-xyl		1.057	0.000	100.0#	0#	-2.34#
3		Hexachlorobenzene		1.244	0.000	100.0#	0#	-2.68#
4		alpha-BHC		1.350	0.000	100.0#	0#	-2.79#
5		gamma-BHC (lindane)		1.263	0.000	100.0#	0#	-3.08#
6		beta-BHC	*	50.000	0.000	100.0#	0	-3.15#
7		delta-BHC		1.271	0.000	100.0#	0#	-3.42#

Evaluate Continuing Calibration Report

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 4 Dec 2023   1:02 pm
Operator : PEST18:akm
Sample   : wg1859540-3,42,,tox11371 (Sig #1); tox11371 (Sig #2)
Misc   : wg1859540,,ical20463
ALS Vial : 5   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:39:34 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(Min)
8		Heptachlor		1.245	0.000	100.0#	0#	-3.48#
9		Aldrin		1.183	0.000	100.0#	0#	-3.80#
10		Alachlor		0.184	0.000	100.0#	0#	-3.69#
11		Chlorpyrifos		0.647	0.000	100.0#	0#	-4.05#
12		Heptachlor Epoxide		1.169	0.000	100.0#	0#	-4.41#
13		gamma-Chlordane (trans)		1.066	0.000	100.0#	0#	-4.63#
14		alpha-Chlordane (cis)		1.208	0.000	100.0#	0#	-4.81#
15		4,4'-DDE		1.171	0.000	100.0#	0#	-5.02#
16		Endosulfan I		1.099	0.000	100.0#	0#	-4.87#
17		Dieldrin		1.119	0.000	100.0#	0#	-5.18#
18		Endrin		1.129	0.000	100.0#	0#	-5.49#
19		4,4'-DDD		0.941	0.000	100.0#	0#	-5.63#
20		Endosulfan II		1.038	0.000	100.0#	0#	-5.70#
21		4,4'-DDT		0.822	0.000	100.0#	0#	-5.91#
22		Endrin Aldehyde	*	50.000	0.000	100.0#	0	-6.00#
23		Methoxychlor		0.462	0.000	100.0#	0#	-6.49#
24		Mirex	*	50.000	0.000	100.0#	0	-6.62#
25		Endosulfan Sulfate		0.991	0.000	100.0#	0#	-6.24#
26		Endrin Ketone		0.975	0.000	100.0#	0#	-6.66#
27	s	Decachlorobiphenyl		0.992	0.000	100.0#	0#	-7.54#
28	i	1-br-2-nb_Chlordane	^	1.000	1.000	0.0	0	-1.79#
29	l1	chlordane-1	*	1000.000	0.000	100.0#	0	-3.34#
30	l1	chlordane-3	*	1000.000	0.000	100.0#	0	-3.95#
31	l1	chlordane-4	*	1000.000	0.000	100.0#	0	-4.63#
32	l1	chlordane-5	*	1000.000	0.000	100.0#	0	-4.81#

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0
(^) = ISTD area calculated using ICAL average

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 1:02 pm
Operator : PEST18:akm
Sample : wg1859540-3,42,,tox11371 (Sig #1); tox11371 (Sig #2)
Misc : wg1859540,,ical20463
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:39:34 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.745	1.793	119.1E6	87711845	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 1:02 pm
Operator : PEST18:akm
Sample : wg1859540-3,42,,tox11371 (Sig #1); tox11371 (Sig #2)
Misc : wg1859540,,ical20463
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:39:34 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	5.099	5.683	386.9E6	225.4E6	2291.826M3	2183.447
35) l2	toxaphene-2	5.225	5.774	409.6E6	358.2E6	2207.610M3	2234.093
36) l2	toxaphene-3	5.457	6.012	393.7E6	268.2E6	2162.659	2306.078
37) l2	toxaphene-4	5.837	6.429	342.3E6	240.7E6	2246.711	2474.547
Sum	toxaphene-1			1532.5E6	1092.5E6	8908.805	9198.165
Average	toxaphene-1					2227.201	2299.541

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			1532.5E6	1092.5E6	8908.805	9198.165
Average	toxaphene-1					2227.201	2299.541

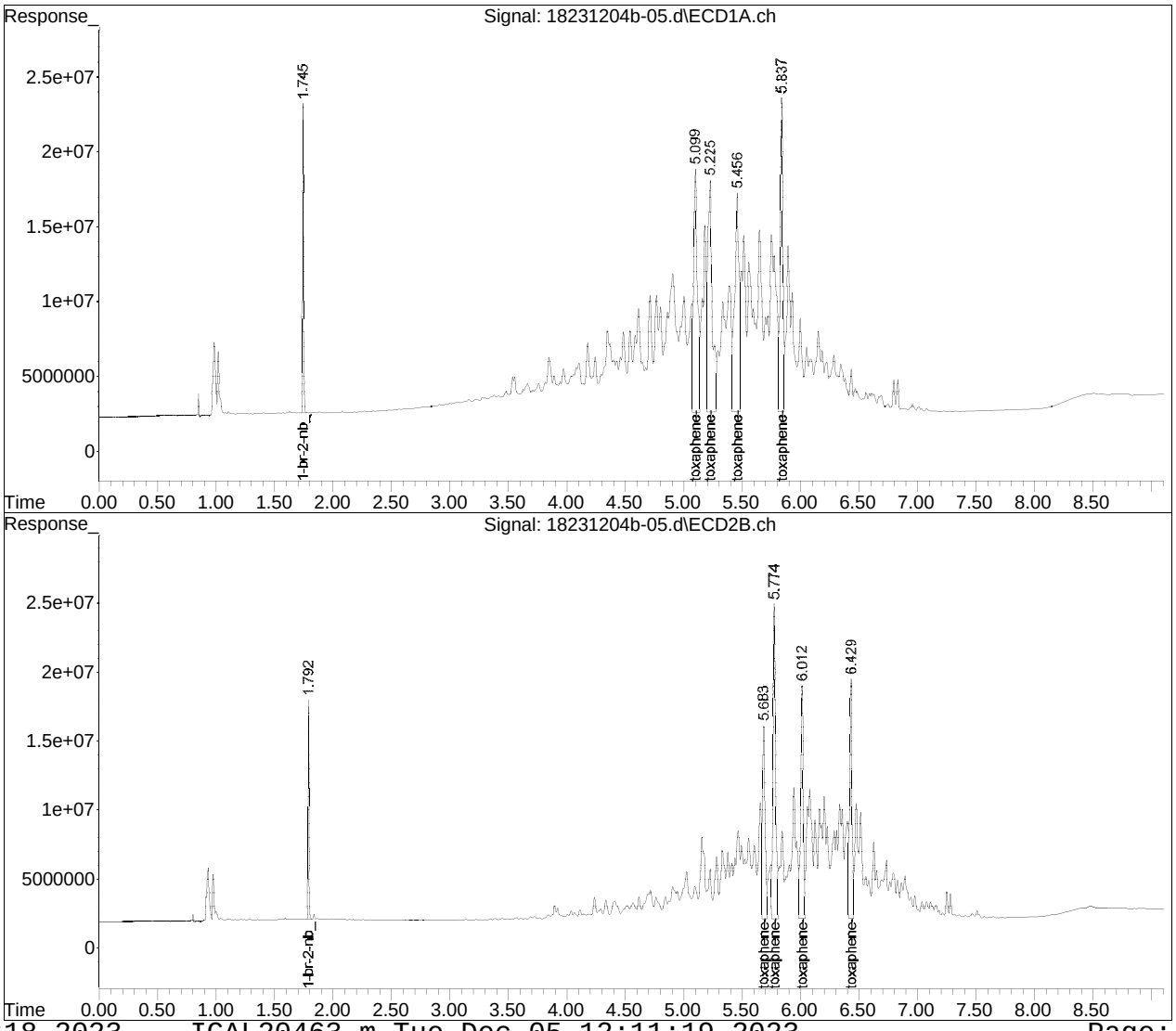
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 1:02 pm
Operator : PEST18:akm
Sample : wg1859540-3,42,,tox11371 (Sig #1); tox11371 (Sig #2)
Misc : wg1859540,,ical20463
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:39:34 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

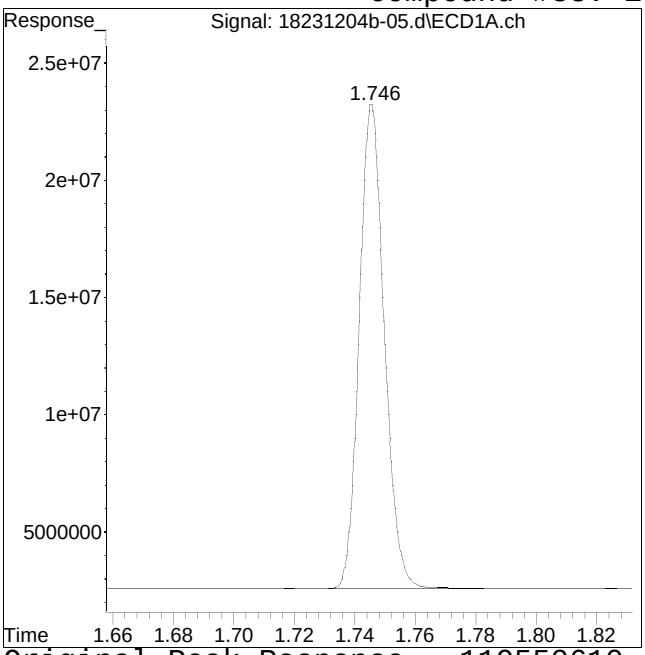
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



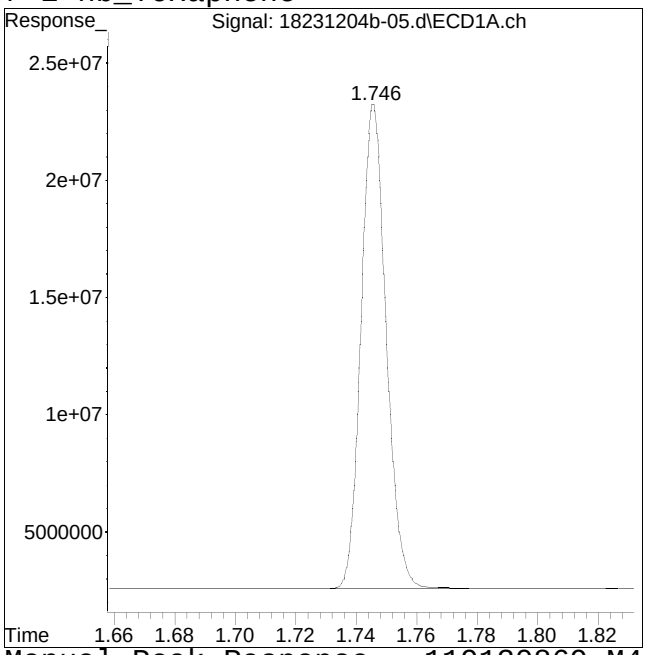
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-05.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 1:02 pm Instrument : Pest 18
Sample : wg1859540-3,42,,tox11371 Quant Date : 12/4/2023 1:39 pm

Compound #33: 1-br-2-nb_Toxaphene



Original Peak Response = 119550610



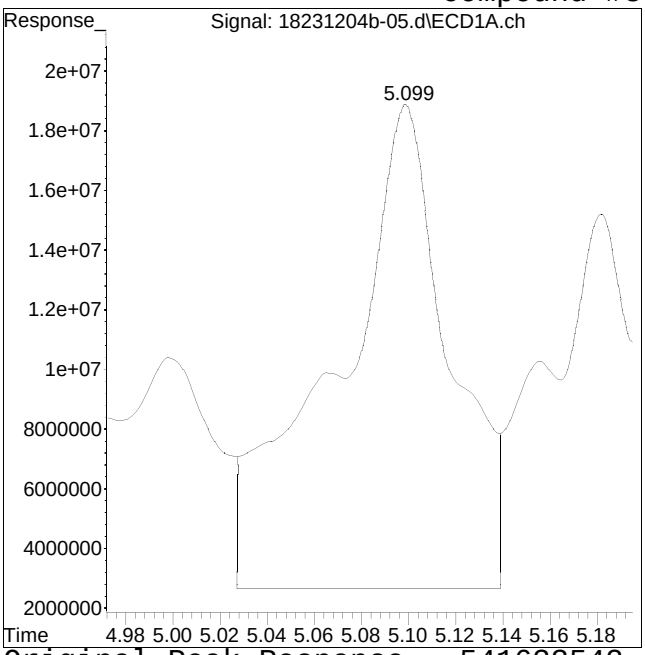
Manual Peak Response = 119130869 M4

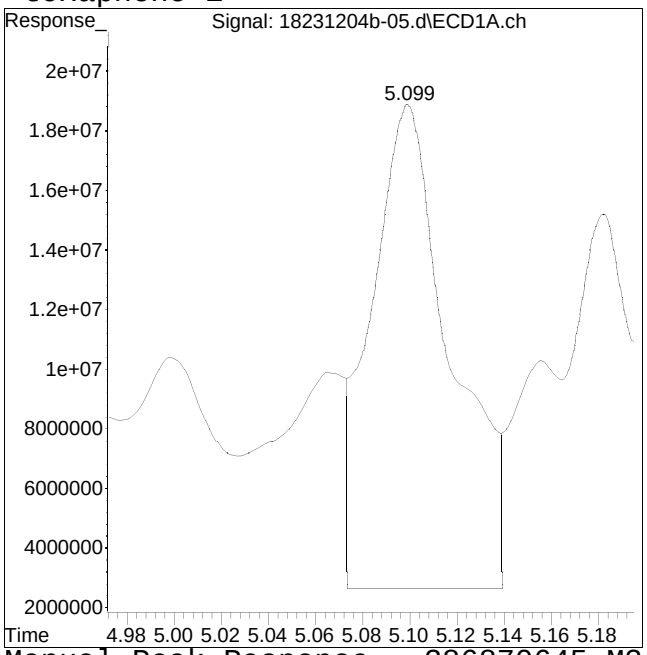
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-05.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 1:02 pm Instrument : Pest 18
Sample : wg1859540-3,42,,tox11371 Quant Date : 12/4/2023 1:39 pm

Compound #34: toxaphene-1



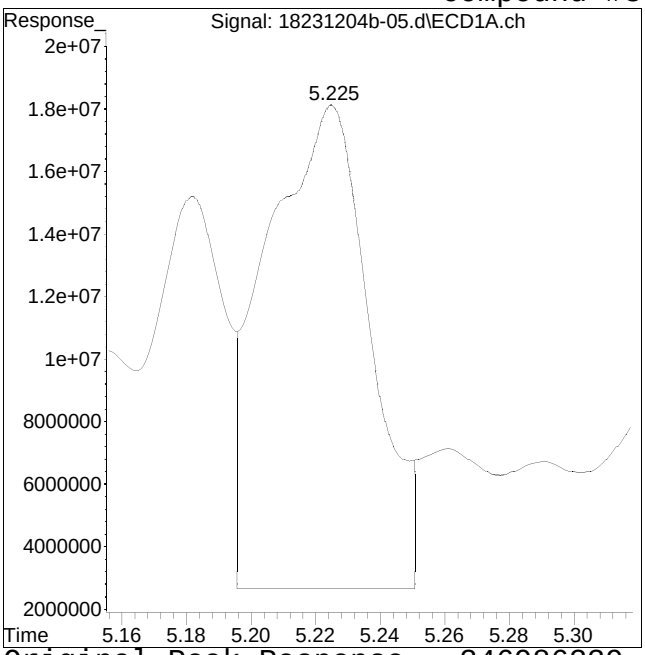


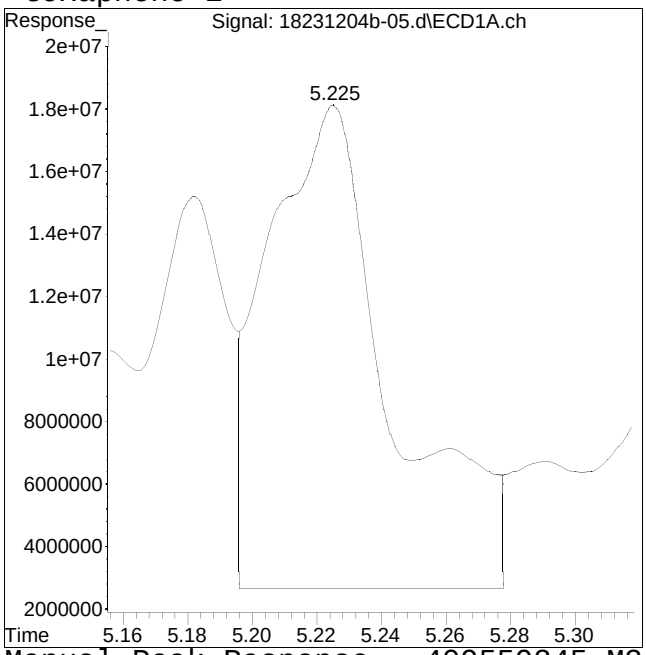
Original Peak Response = 541633542 Manual Peak Response = 386870645 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-05.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 1:02 pm Instrument : Pest 18
Sample : wg1859540-3,42,,tox11371 Quant Date : 12/4/2023 1:39 pm

Compound #35: toxaphene-2





Original Peak Response = 346986339 Manual Peak Response = 409559245 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Degradation Check Standard

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST18	**Analysis Date**	: 12/03/23 08:50
PEM Standard	: R1770636-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	636783.614	445250.3073
Endrin	261803015.1141	201275761.27384
4,4'-DDD	518101.5945	365260.4073
4,4'-DDT	481988525.8843	387475241.0111
Endrin Aldehyde	0	0
Endrin Ketone	2376935.1968	2202899.819

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.900	1.08
DDT	0.239	0.209

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST10	**Analysis Date**	: 12/04/23 09:48
PEM Standard	: R1770745-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	1457134.83125	750987.76949
Endrin	485736427.77337	237497050.25805
4,4'-DDD	3463874.67127	2466197.50604
4,4'-DDT	884681740.06837	427086504
Endrin Aldehyde	849901.93929	486260.68812
Endrin Ketone	1586971.79731	895005.48071

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.499	0.578
DDT	0.553	0.748

Performance Evaluation Mixture Summary
Form 15
Pesticides

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: PEST18	**Analysis Date**	: 12/04/23 12:28
PEM Standard	: R1771178-1		
Column 1	: RTX-5	**Column 2**	: RTX-CLPPesticides2

Parameter	Signal 1	Signal 2
4,4'-DDE	0	0
Endrin	262260284.41283	195704644.66382
4,4'-DDD	293909.35968	416124.11666
4,4'-DDT	482692619.7406	382275646.04608
Endrin Aldehyde	144884.81608	241473.34535
Endrin Ketone	1238646.36206	1239475.40721

Parameter	%Breakdown 1	%Breakdown 2
Endrin	0.525	0.751
DDT	0.0608	0.109

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 8:50 am
Operator : PEST18:mmg
Sample : pem23181203a-01,42,, deg11372 (Sig #1); deg11372 (Sig #2)
Misc : wg1859122,,ical20463
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:38:16 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:36:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.752	1.799	128.8E6	90251805	25.000M3	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.323	5.033	636784	445250	0.110M2	0.105M4
18)	Endrin	4.875	5.498	261.8E6	201.3E6	44.024M4	49.395
19)	4,4'-DDD	4.997	5.615f	518102	365260	0.111M3	0.108M4
21)	4,4'-DDT	5.293	5.920	482.0E6	387.5E6	103.683M3	130.645
22)	Endrin Aldeh	0.000	0.000	0	0	N.D.	N.D. d
26)	Endrin Keton	6.172	6.665	2376935	2202900	0.493M3	0.626M3
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

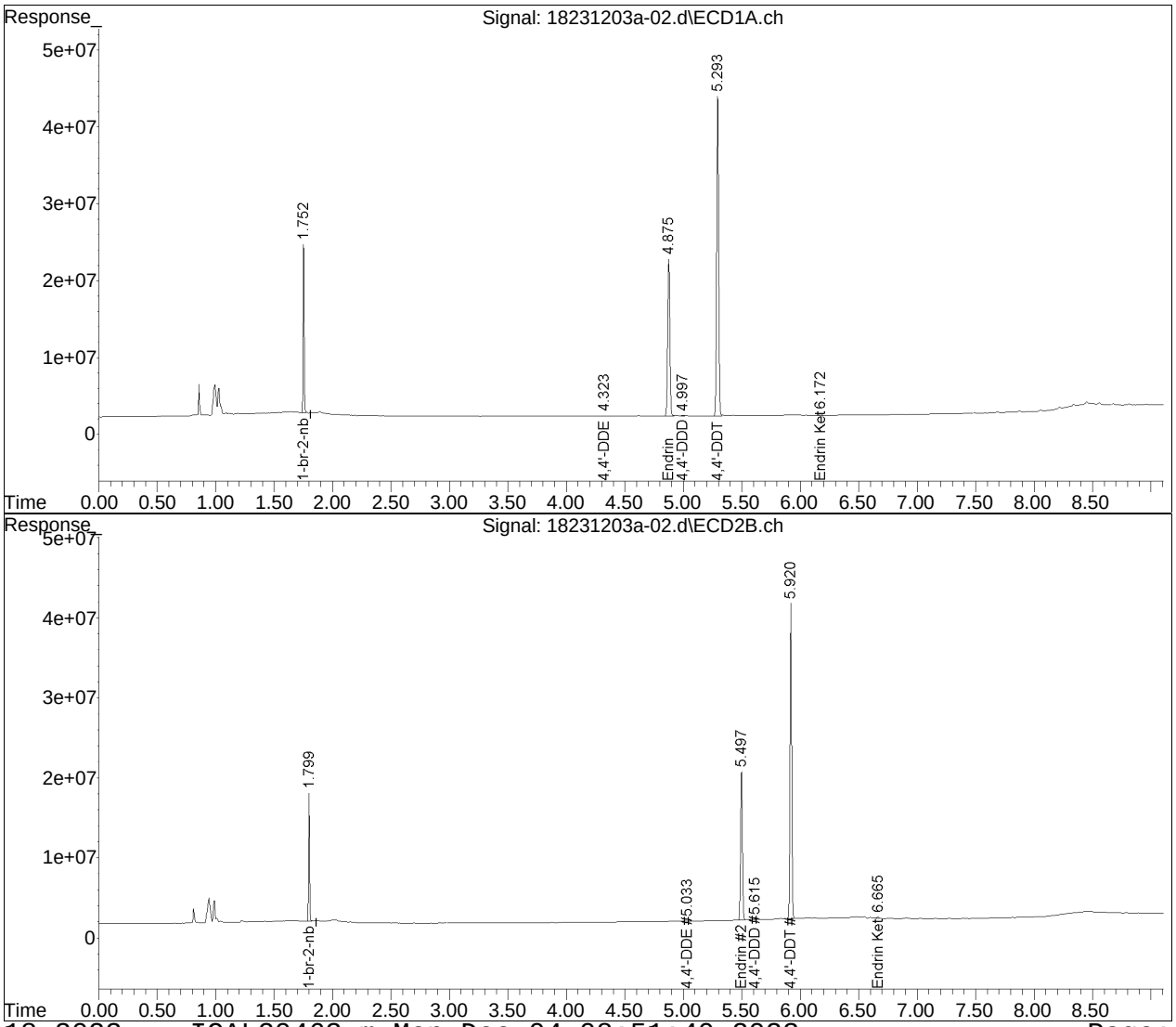
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest18\2023\231203A\
Data File : 18231203a-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 8:50 am
Operator : PEST18:mmg
Sample : pem23181203a-01,42,, deg11372 (Sig #1); deg11372 (Sig #2)
Misc : wg1859122,,ical20463
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 03 09:38:16 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 09:36:42 2023
Response via : Initial Calibration
Integrator: ChemStation

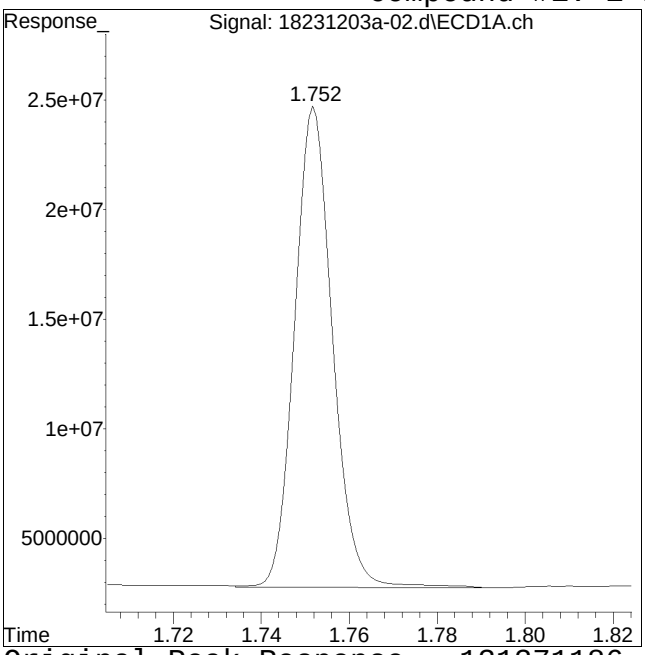
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

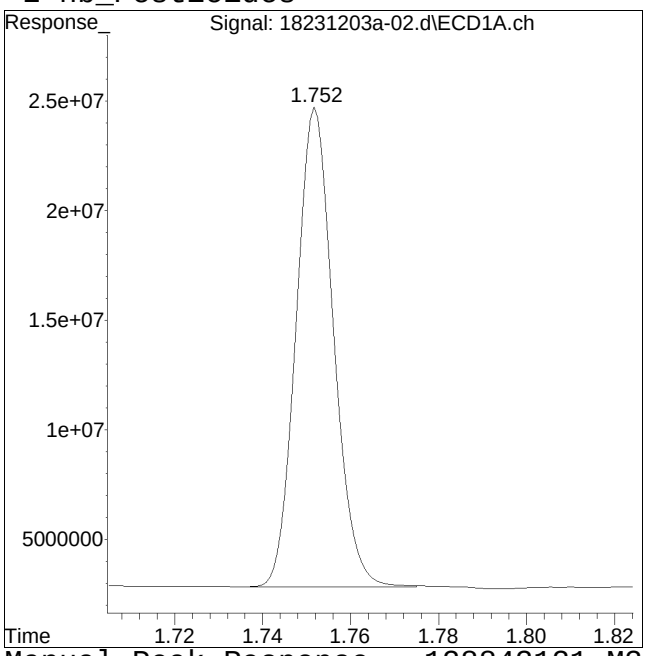


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-02.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 8:50 am Instrument : Pest 18
Sample : pem23181203a-01,42,, deg11Quant Date : 12/3/2023 9:37 am

Compound #1: 1-br-2-nb_Pesticides



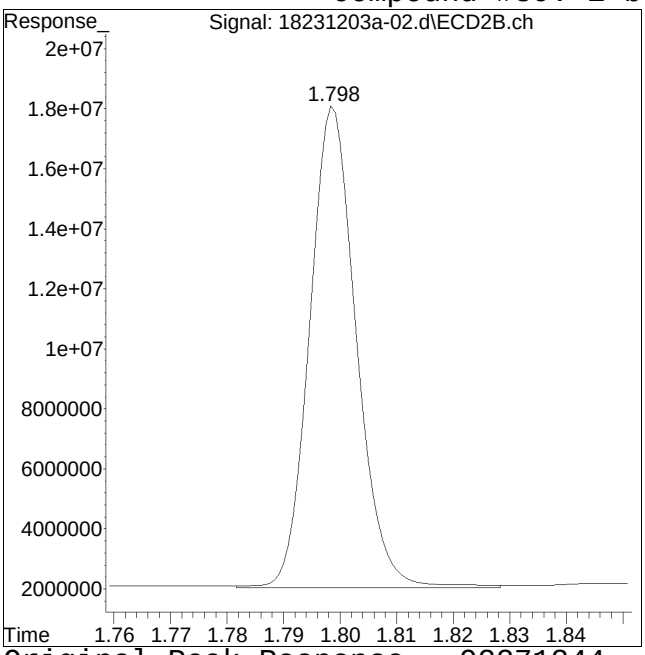


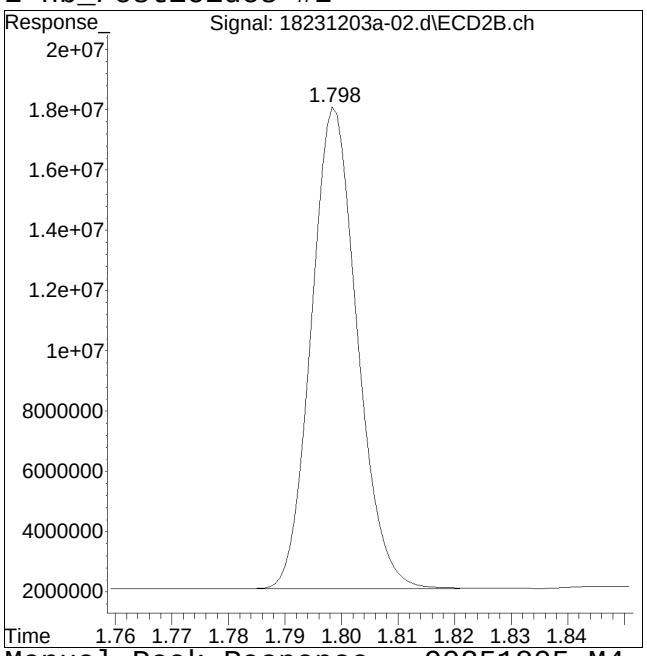
Original Peak Response = 131371186 Manual Peak Response = 128843121 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-02.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 8:50 am Instrument : Pest 18
Sample : pem23181203a-01,42,, deg11Quant Date : 12/3/2023 9:37 am

Compound #39: 1-br-2-nb_Pesticides #2



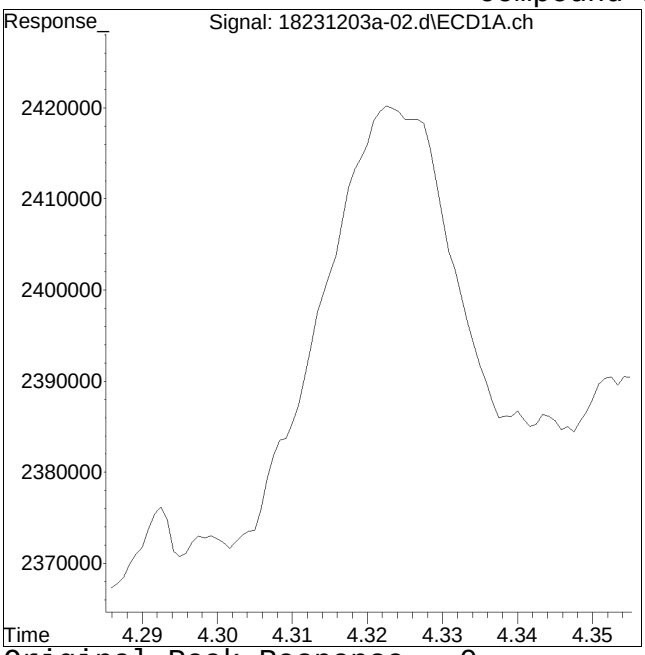


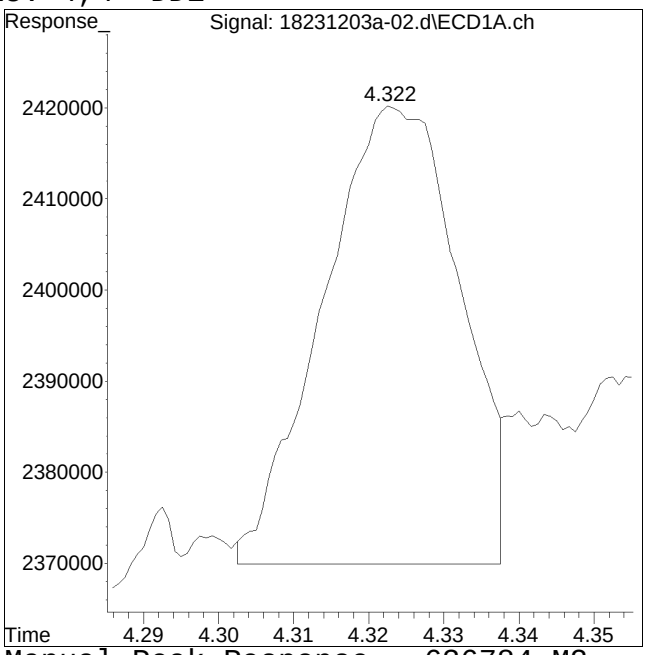
Original Peak Response = 92271244 Manual Peak Response = 90251805 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-02.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 8:50 am Instrument : Pest 18
Sample : pem23181203a-01,42,, deg11Quant Date : 12/3/2023 9:37 am

Compound #15: 4,4'-DDE



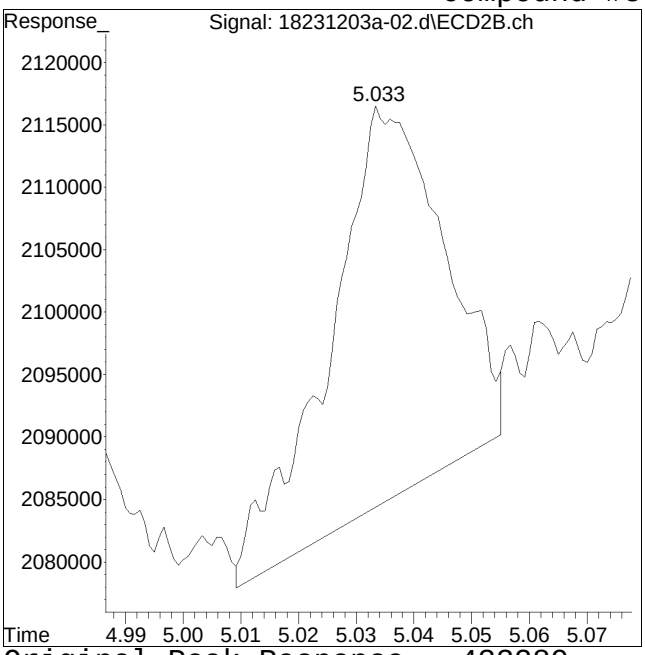


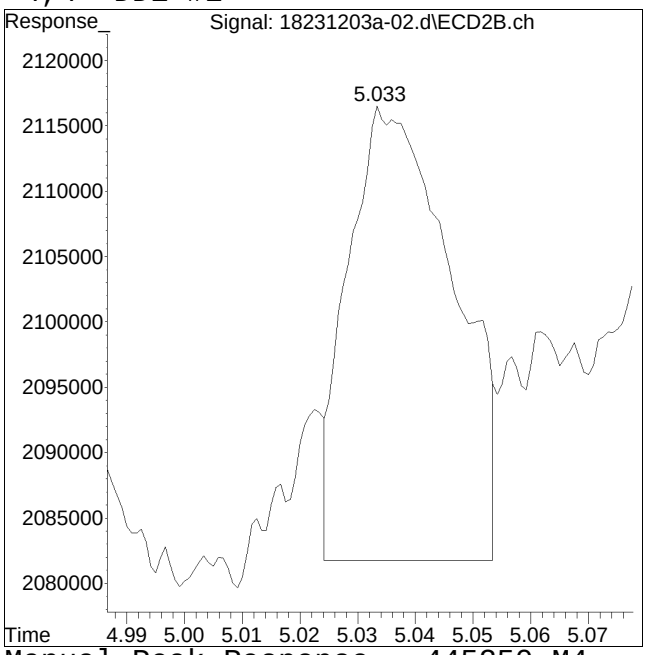
Original Peak Response = 0 Manual Peak Response = 636784 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-02.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 8:50 am Instrument : Pest 18
Sample : pem23181203a-01,42,, deg11Quant Date : 12/3/2023 9:37 am

Compound #53: 4,4'-DDE #2



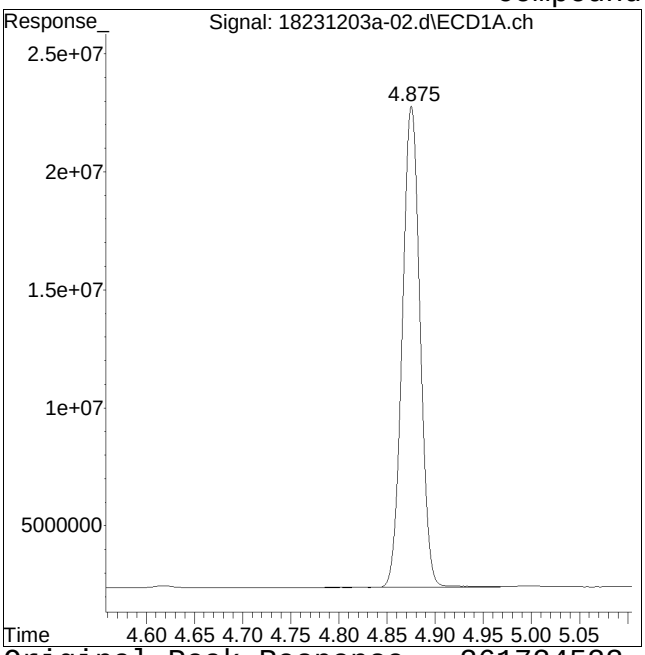


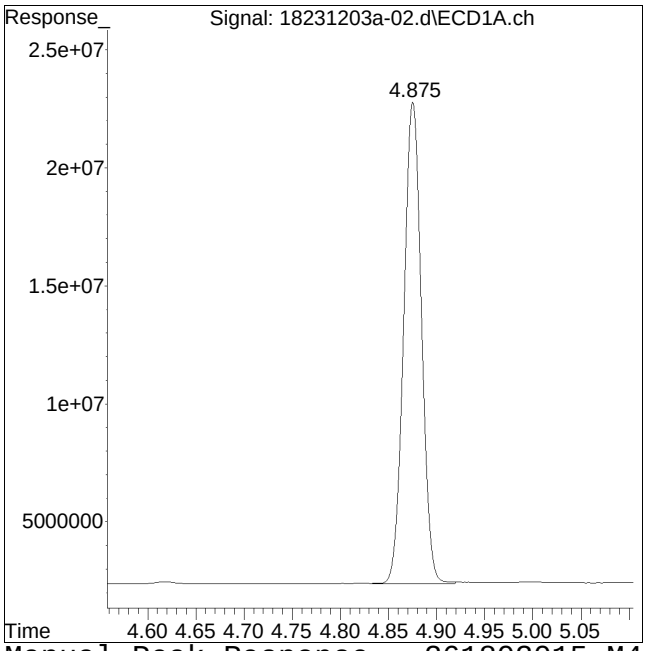
Original Peak Response = 433289 Manual Peak Response = 445250 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-02.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 8:50 am Instrument : Pest 18
Sample : pem23181203a-01,42,, deg11Quant Date : 12/3/2023 9:37 am

Compound #18: Endrin



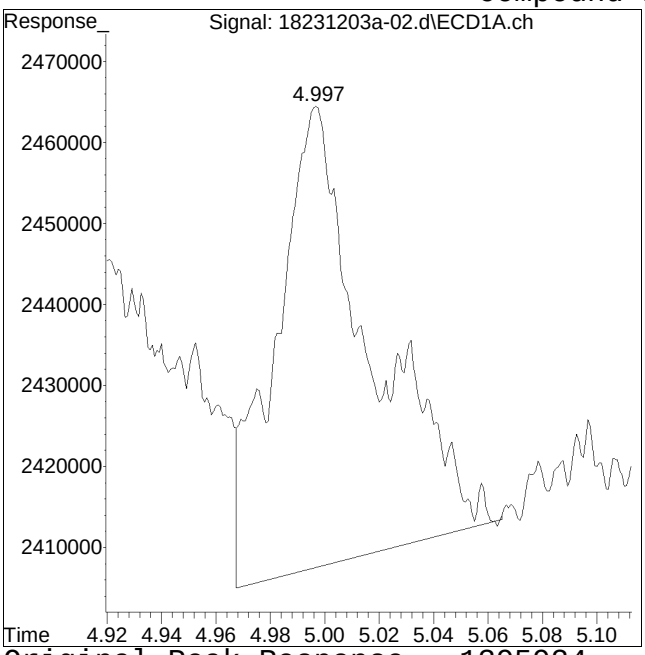


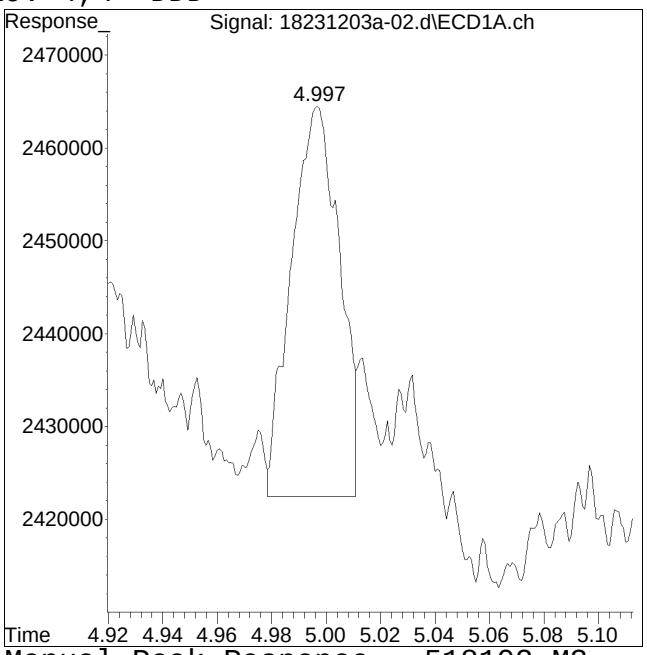
Original Peak Response = 261724523 Manual Peak Response = 261803015 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-02.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 8:50 am Instrument : Pest 18
Sample : pem23181203a-01,42,, deg11Quant Date : 12/3/2023 9:37 am

Compound #19: 4,4'-DDD



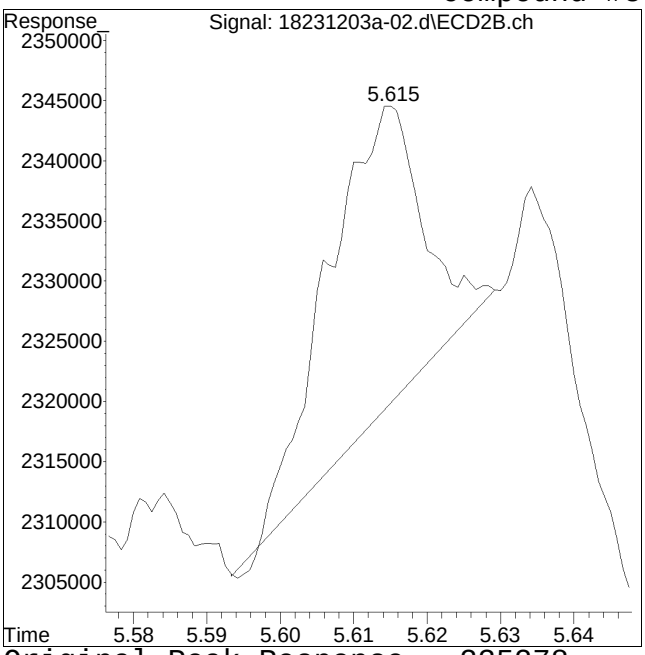


Original Peak Response = 1395924 Manual Peak Response = 518102 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

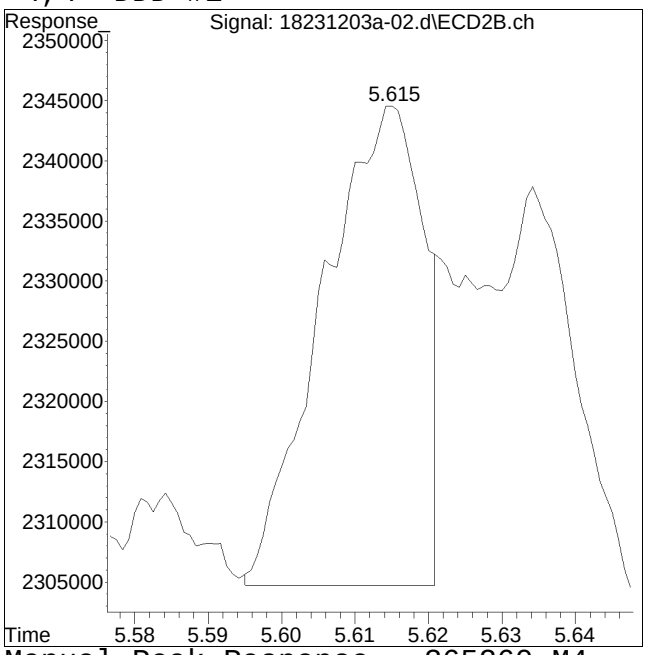
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-02.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 8:50 am Instrument : Pest 18
Sample : pem23181203a-01,42,, deg11Quant Date : 12/3/2023 9:37 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 235278



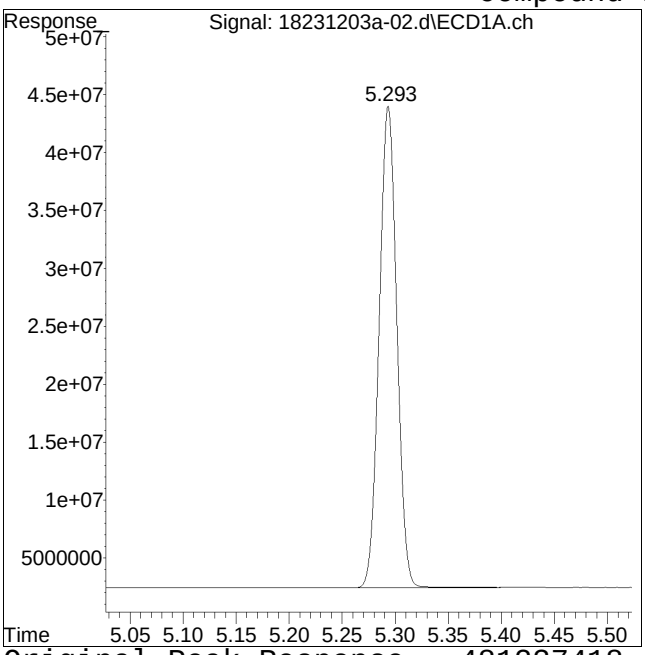
Manual Peak Response = 365260 M4

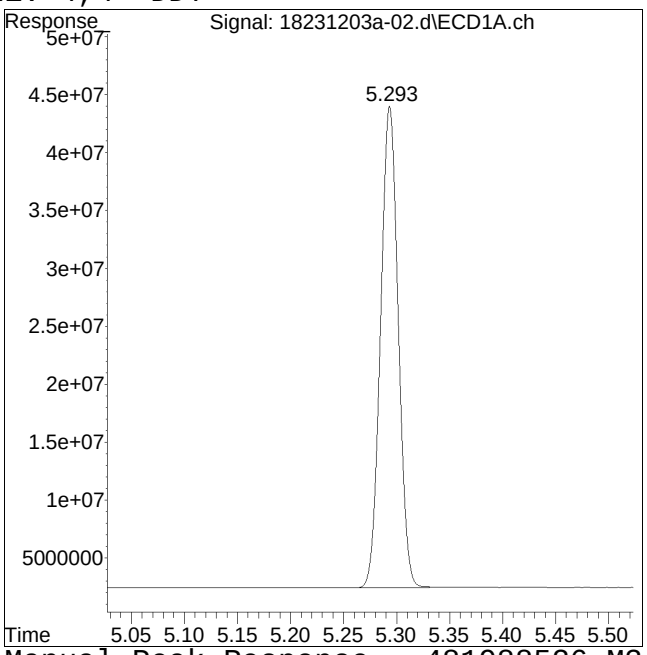
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-02.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 8:50 am Instrument : Pest 18
Sample : pem23181203a-01,42,, deg11Quant Date : 12/3/2023 9:37 am

Compound #21: 4,4'-DDT



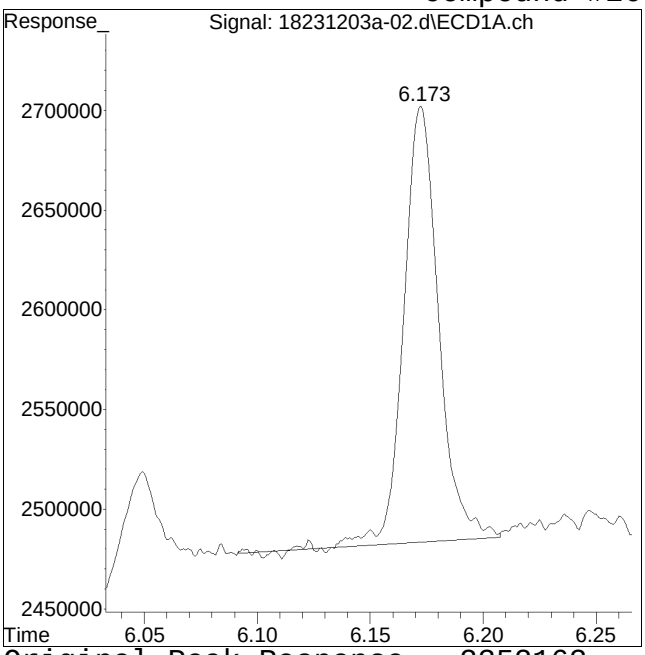


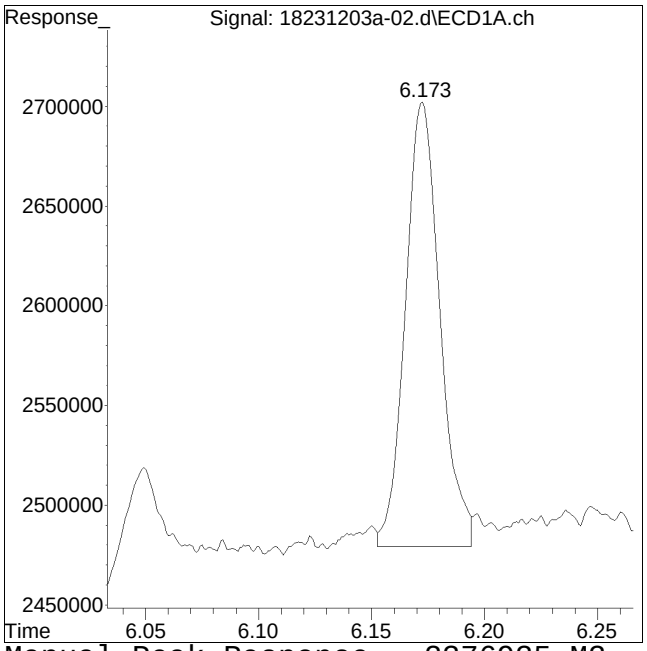
Original Peak Response = 481237418 Manual Peak Response = 481988526 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-02.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 8:50 am Instrument : Pest 18
Sample : pem23181203a-01,42,, deg11Quant Date : 12/3/2023 9:37 am

Compound #26: Endrin Ketone



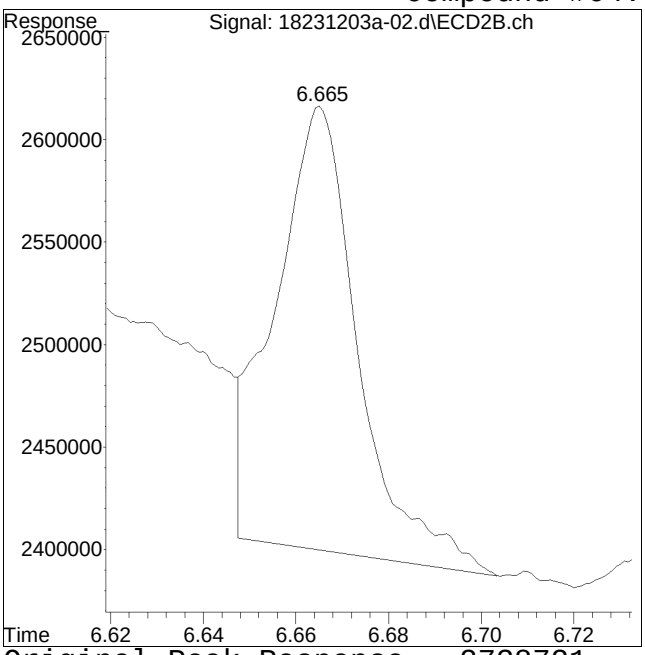


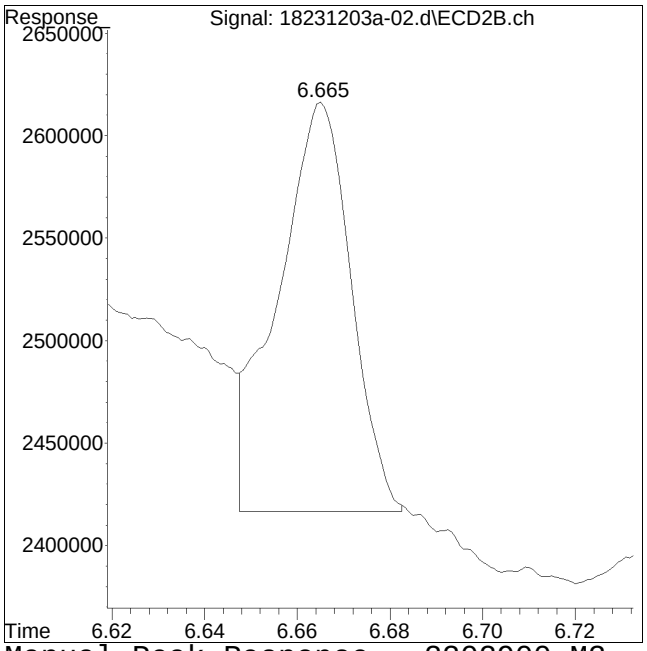
Original Peak Response = 2352163 Manual Peak Response = 2376935 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-02.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 8:50 am Instrument : Pest 18
Sample : pem23181203a-01,42,, deg11Quant Date : 12/3/2023 9:37 am

Compound #64: Endrin Ketone #2





Original Peak Response = 2738721 Manual Peak Response = 2202900 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 9:48 am
Operator : PEST10:akm
Sample : pem10231204a-01,42,,deg11372 (Sig #1); deg11372 (Sig #2)
Misc : WG1859447,,ical20620
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:16:13 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:14:35 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	Internal Standards							
1) i	1-br-2-nb_Pe	1.314	1.406	174.4E6	85538479	25.000M4	25.000M4	
	System Monitoring Compounds							
	Target Compounds							
15) t	4,4'-DDE	3.671	4.555	1457135	750988	0.180M4	0.162M4	
18) t	Endrin	4.230	5.001	485.7E6	237.5E6	57.552	49.065M4	
19) t	4,4'-DDD	4.340	5.120	3463875	2466198	0.520	0.648M4	
21) t	4,4'-DDT	4.631	5.394	884.7E6	427.1E6	115.798	97.198	
22) t	Endrin Aldeh	4.892	5.490	849902	486261	0.135	N.D.	D
26) t	Endrin Keton	5.509	6.127	1586972	895005	0.185M4	0.185M4	
	Sum chlordane-1			0	0	N.D.	N.D.	
	Average chlordane-1					0.000	0.000	
	Sum toxaphene-1			0	0	N.D.	N.D.	
	Average toxaphene-1					0.000	0.000	
	SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.	
	Average toxaphene-1					0.000	0.000	

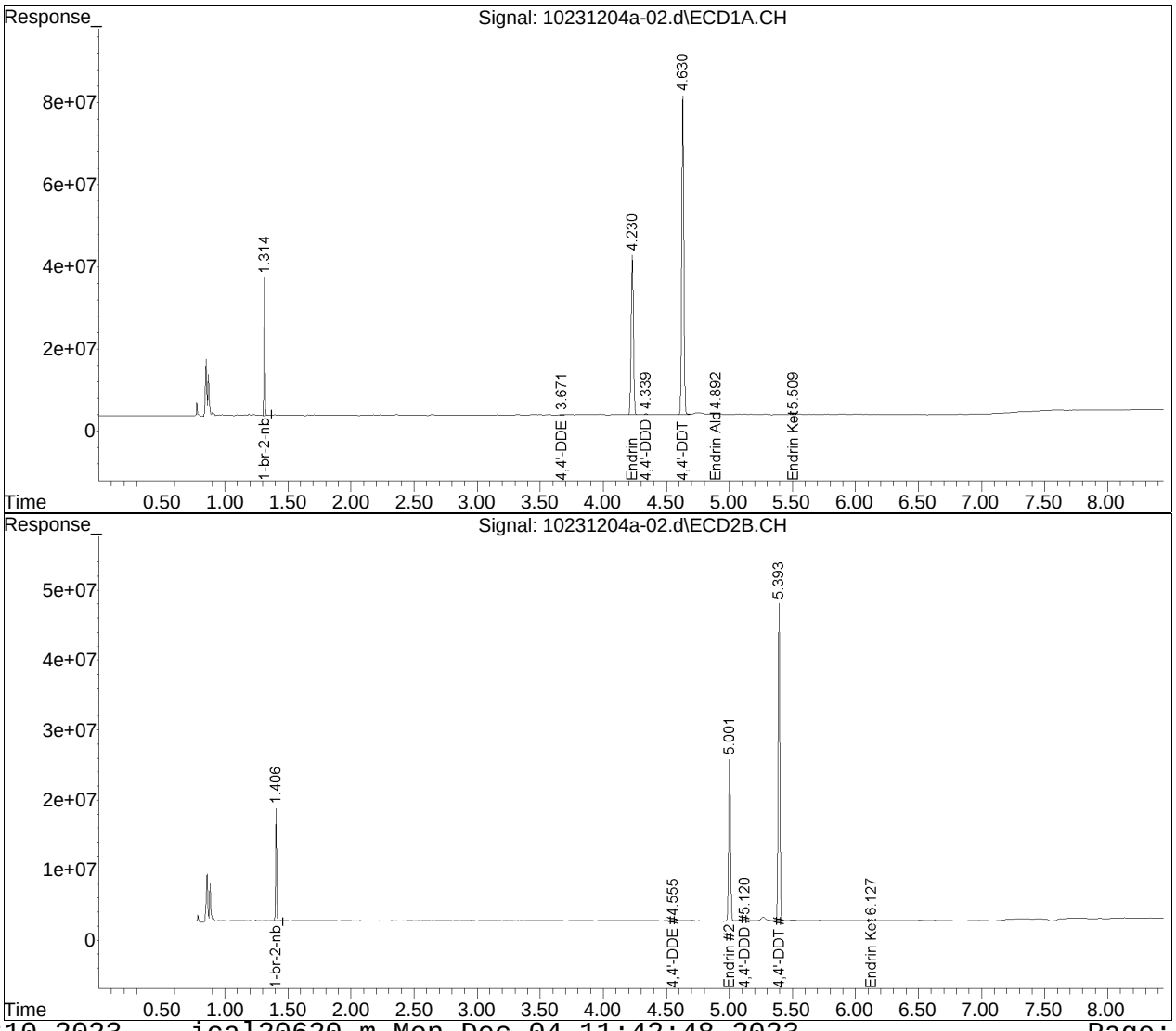
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-02.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 9:48 am
Operator : PEST10:akm
Sample : pem10231204a-01,42,,deg11372 (Sig #1); deg11372 (Sig #2)
Misc : WG1859447,,ical20620
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 04 11:16:13 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:14:35 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

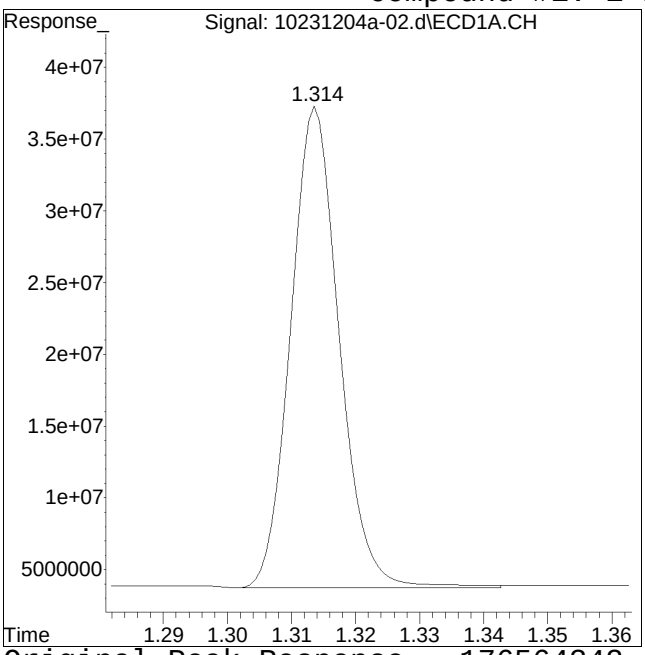
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

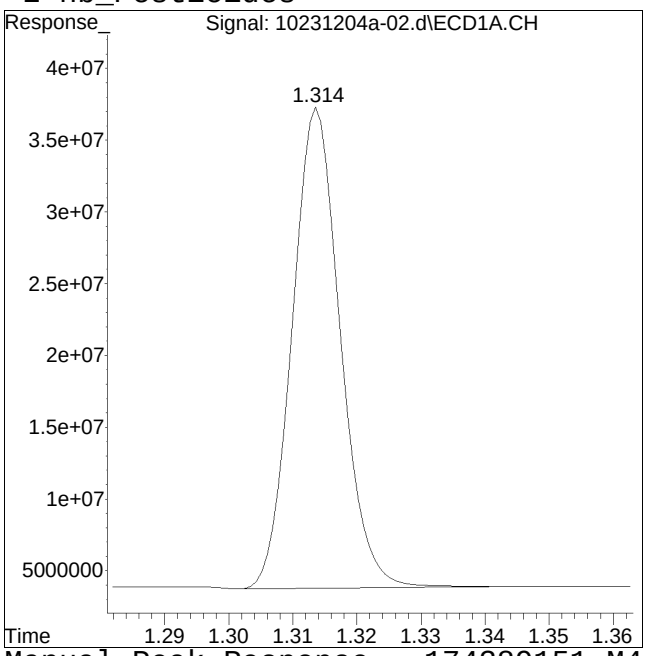


Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-02.d Operator : PEST10:akm
Date Inj'd : 12/4/2023 9:48 am Instrument : Pest 10
Sample : pem10231204a-01,42,,deg113Quant Date : 12/4/2023 11:15 am

Compound #1: 1-br-2-nb_Pesticides



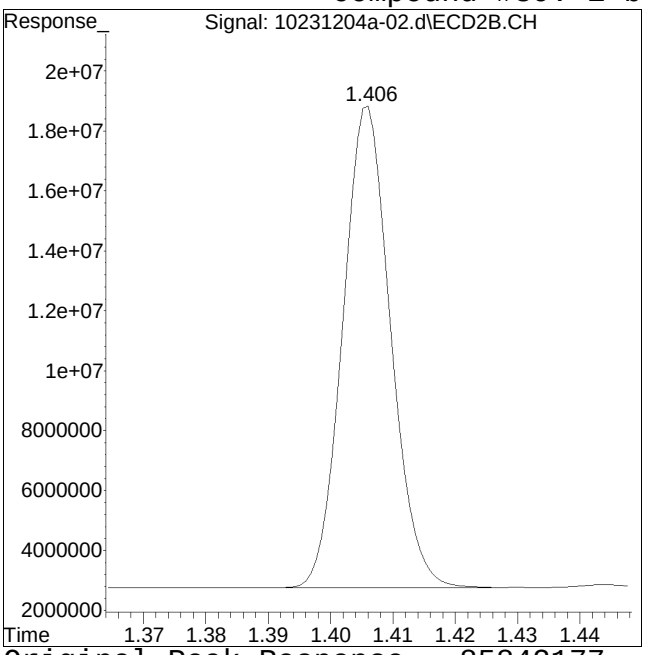


Original Peak Response = 176564342 Manual Peak Response = 174389151 M4
M4 = Poor automated baseline construction.

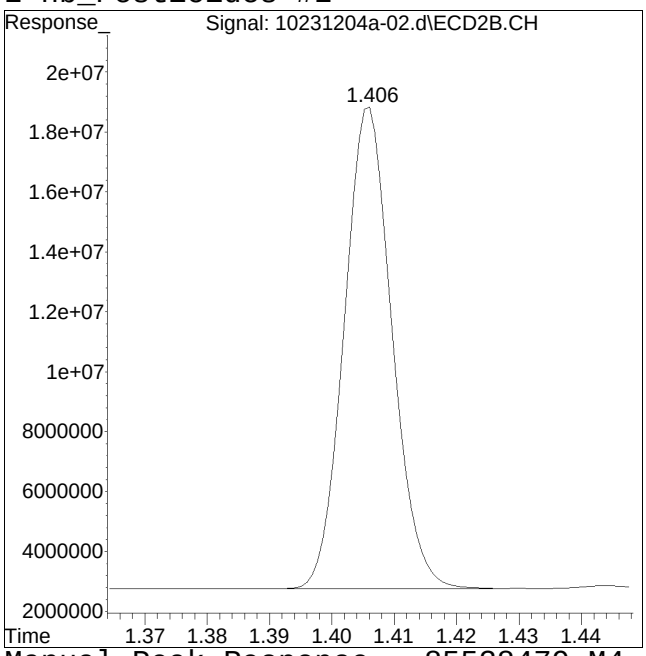
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-02.d Operator : PEST10:akm
Date Inj'd : 12/4/2023 9:48 am Instrument : Pest 10
Sample : pem10231204a-01,42,,deg113Quant Date : 12/4/2023 11:15 am

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 85842177



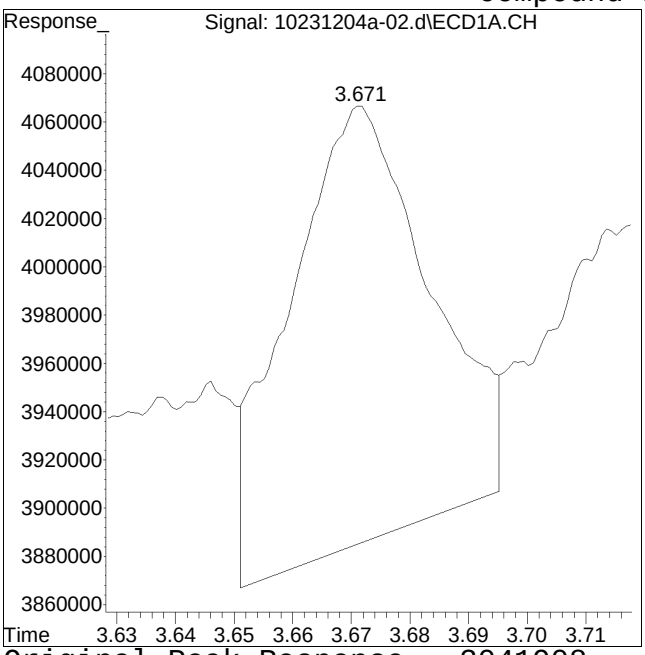
Manual Peak Response = 85538479 M4

M4 = Poor automated baseline construction.

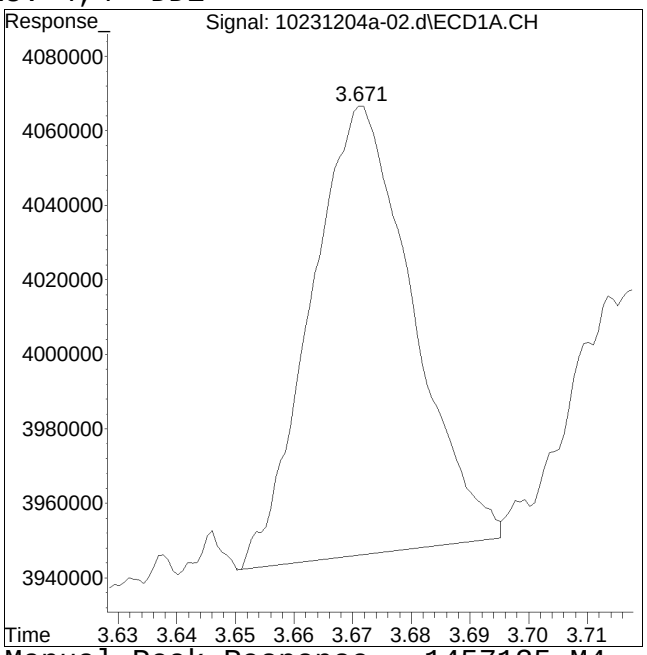
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-02.d Operator : PEST10:akm
Date Inj'd : 12/4/2023 9:48 am Instrument : Pest 10
Sample : pem10231204a-01,42,,deg113Quant Date : 12/4/2023 11:15 am

Compound #15: 4,4'-DDE



Original Peak Response = 3041908



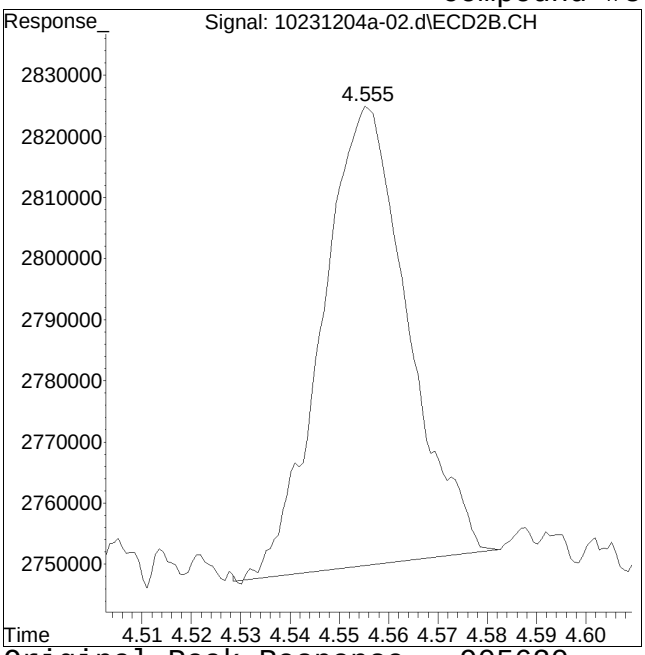
Manual Peak Response = 1457135 M4

M4 = Poor automated baseline construction.

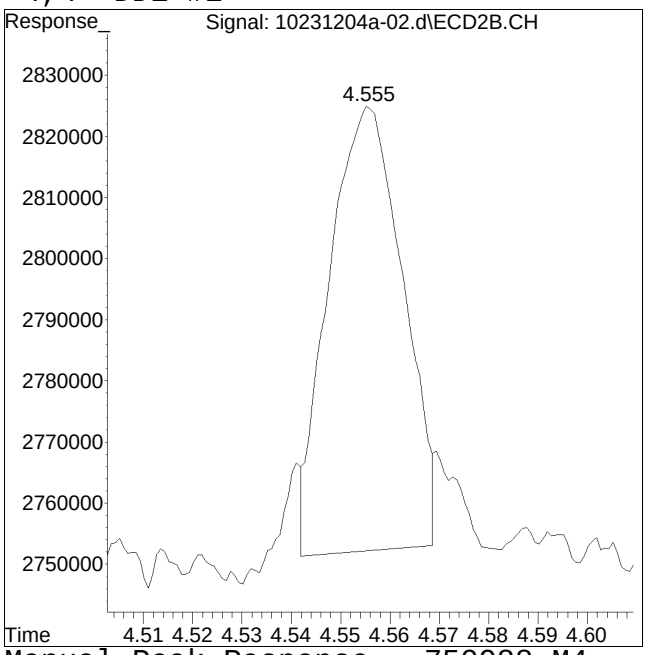
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-02.d Operator : PEST10:akm
Date Inj'd : 12/4/2023 9:48 am Instrument : Pest 10
Sample : pem10231204a-01,42,,deg113Quant Date : 12/4/2023 11:15 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 905620



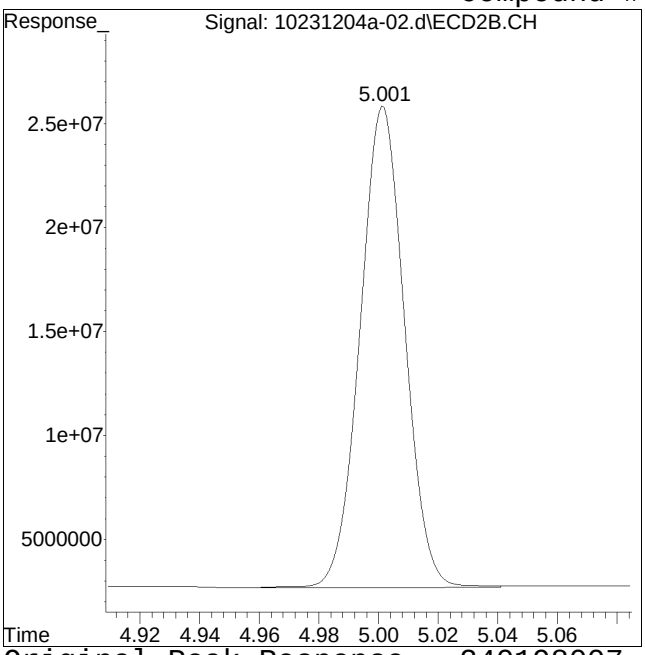
Manual Peak Response = 750988 M4

M4 = Poor automated baseline construction.

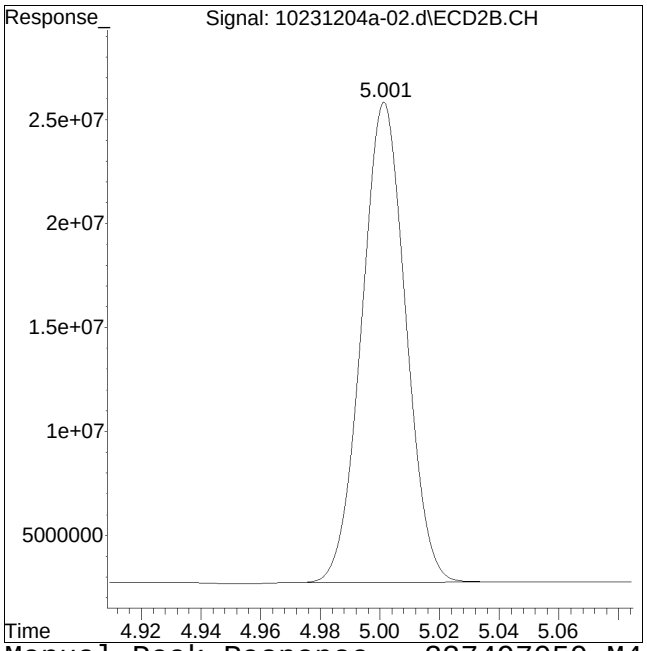
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-02.d Operator : PEST10:akm
Date Inj'd : 12/4/2023 9:48 am Instrument : Pest 10
Sample : pem10231204a-01,42,,deg113Quant Date : 12/4/2023 11:15 am

Compound #56: Endrin #2



Original Peak Response = 240198007



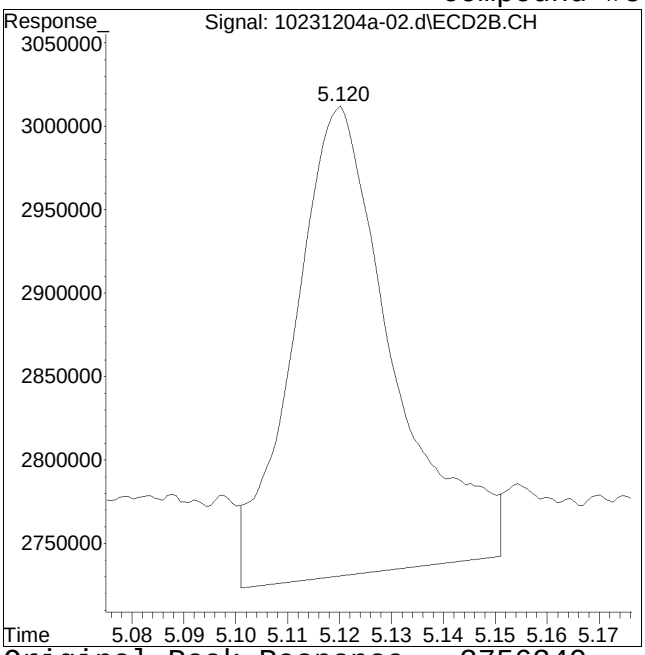
Manual Peak Response = 237497050 M4

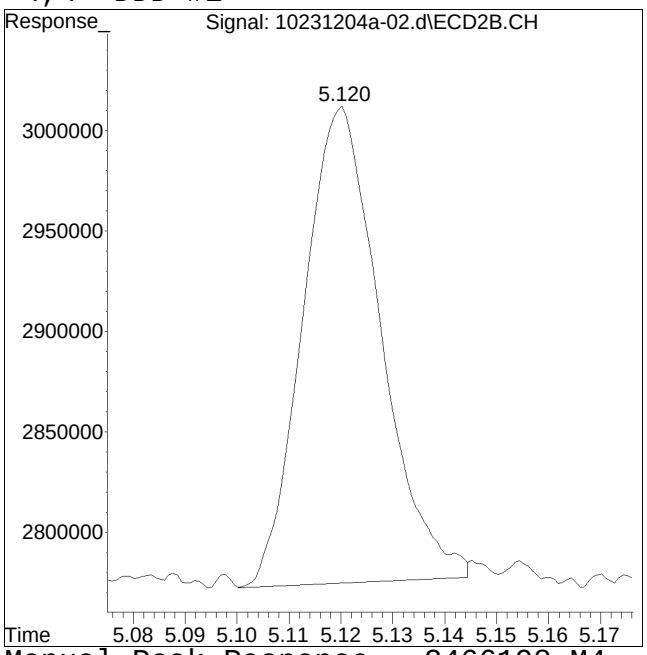
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-02.d Operator : PEST10:akm
Date Inj'd : 12/4/2023 9:48 am Instrument : Pest 10
Sample : pem10231204a-01,42,,deg113Quant Date : 12/4/2023 11:15 am

Compound #57: 4,4'-DDD #2



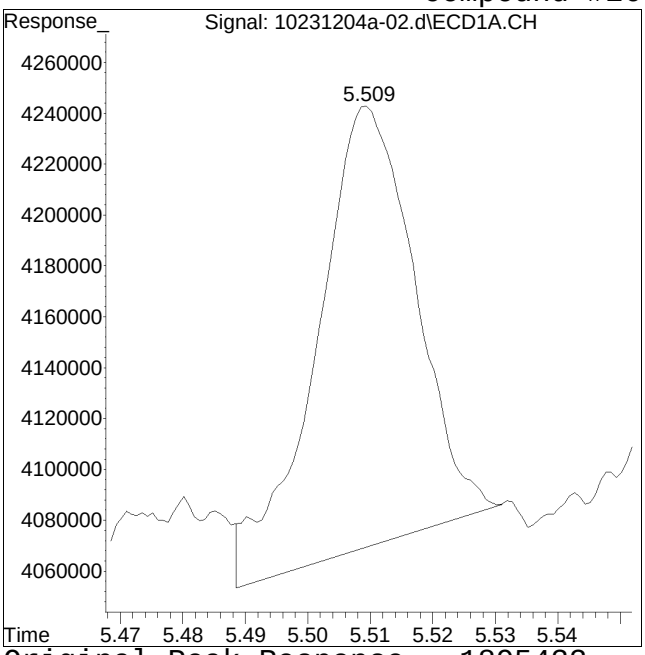


Original Peak Response = 3756349 Manual Peak Response = 2466198 M4
M4 = Poor automated baseline construction.

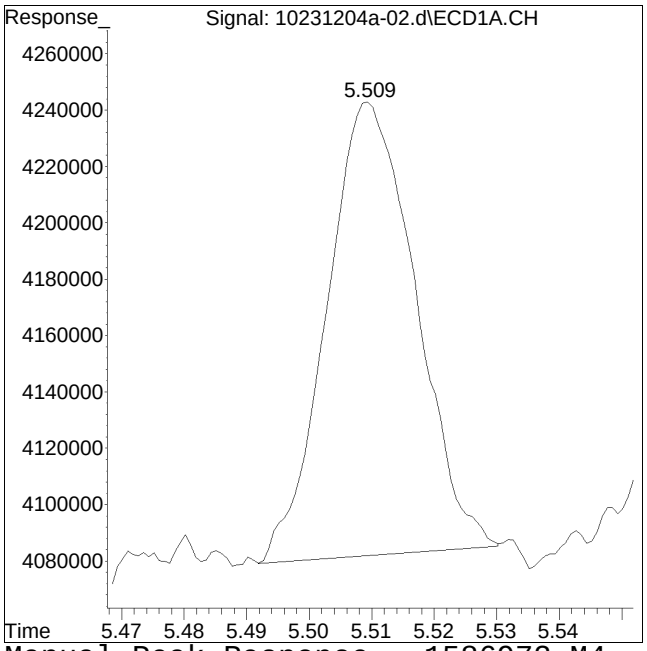
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-02.d Operator : PEST10:akm
Date Inj'd : 12/4/2023 9:48 am Instrument : Pest 10
Sample : pem10231204a-01,42,,deg113Quant Date : 12/4/2023 11:15 am

Compound #26: Endrin Ketone



Original Peak Response = 1895433



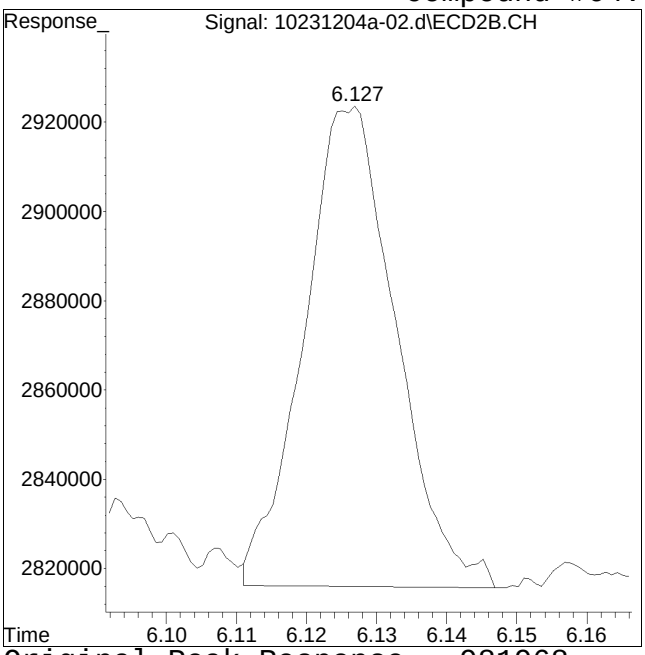
Manual Peak Response = 1586972 M4

M4 = Poor automated baseline construction.

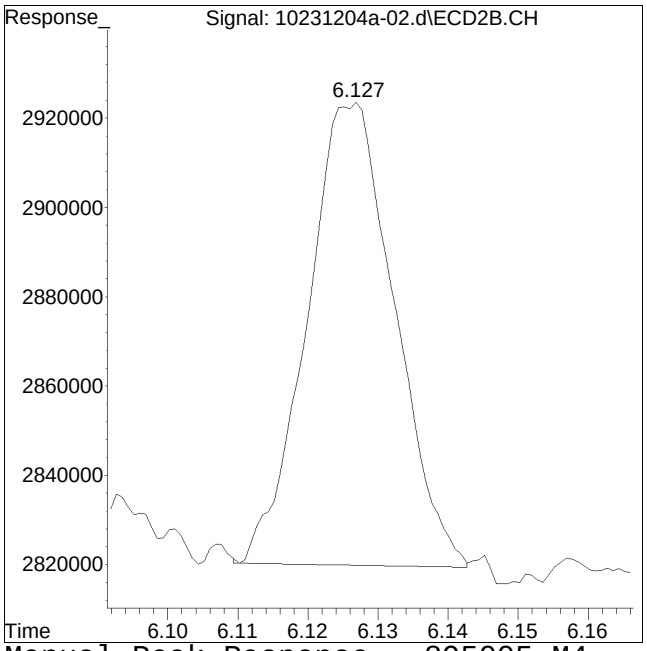
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204Q
Data File : 10231204a-02.d
Date Inj'd : 12/4/2023 9:48 am
Sample : pem10231204a-01,42,,deg113
Method : pest10_2023_11_13_ugL_ic
Operator : PEST10:akm
Instrument : Pest 10
Quant Date : 12/4/2023 11:15 am

Compound #64: Endrin Ketone #2



Original Peak Response = 981968



Manual Peak Response = 895005 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 12:28 pm
Operator : PEST18:akm
Sample : pem18231204b-01,42,,deg11372 (Sig #1); deg11372 (Sig #2)
Misc : wg1859540,,ical20463
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:40:55 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.744	1.792	120.0E6	87410810	25.000M4	25.000
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	0.000	0.000	0	0	N.D.	N.D.
18)	Endrin	4.857	5.487	262.3E6	195.7E6	47.336M4	49.589
19)	4,4'-DDD	4.978	5.623	293909	416124	0.068M2	0.126M4 D
21)	4,4'-DDT	5.278	5.910	482.7E6	382.3E6	111.354	133.081
22)	Endrin Aldeh	5.530	6.003	144885	241473	N.D. M2	N.D. M4
26)	Endrin Keton	6.158	6.655	1238646	1239475	0.276	0.363
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

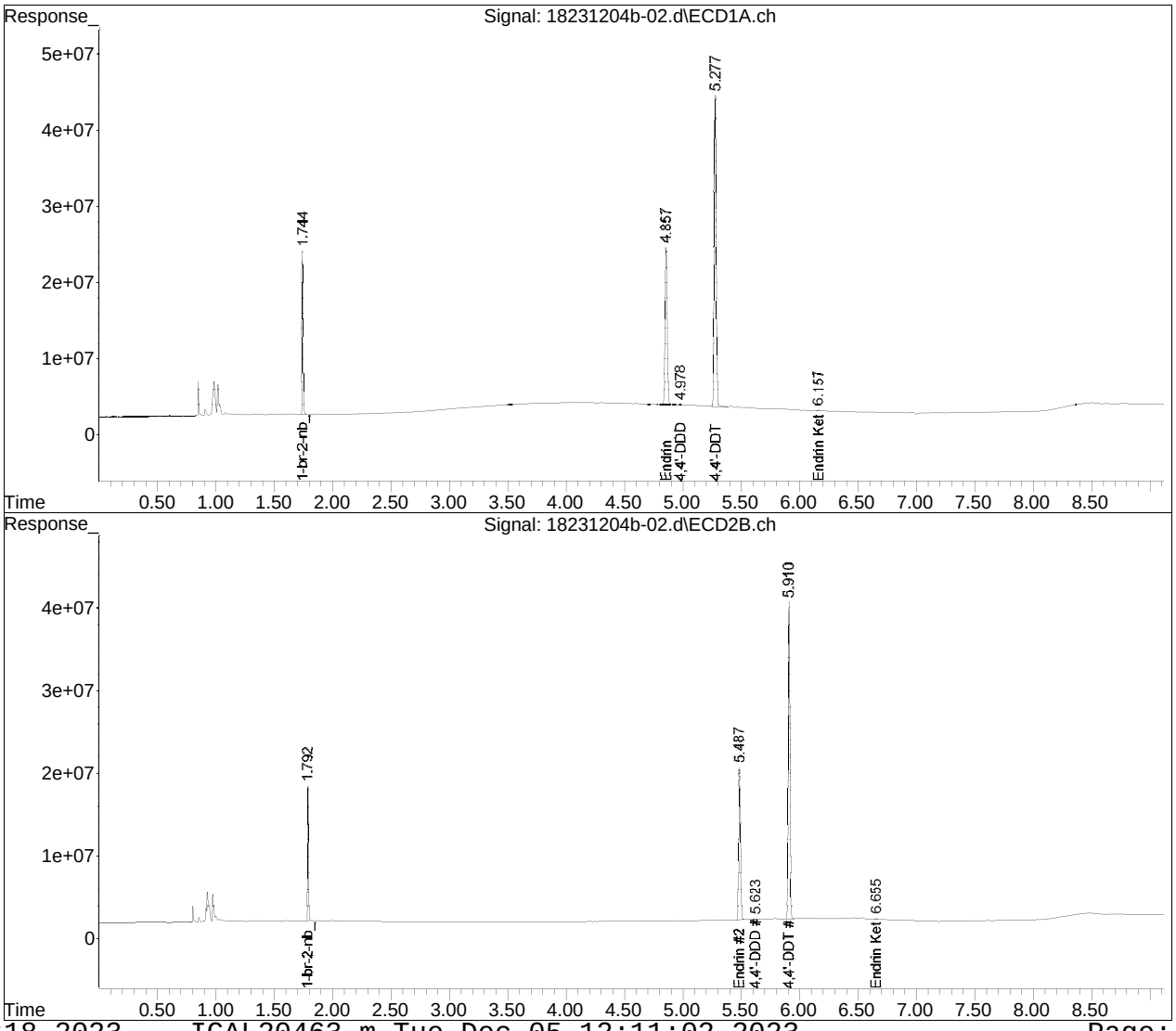
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\PEST\Pest18\2023\231204B\
Data File : 18231204b-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2023 12:28 pm
Operator : PEST18:akm
Sample : pem18231204b-01,42,,deg11372 (Sig #1); deg11372 (Sig #2)
Misc : wg1859540,,ical20463
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 13:40:55 2023
Quant Method : I:\PEST\Pest18\2023\231204B\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Mon Dec 04 13:39:21 2023
Response via : Initial Calibration
Integrator: ChemStation

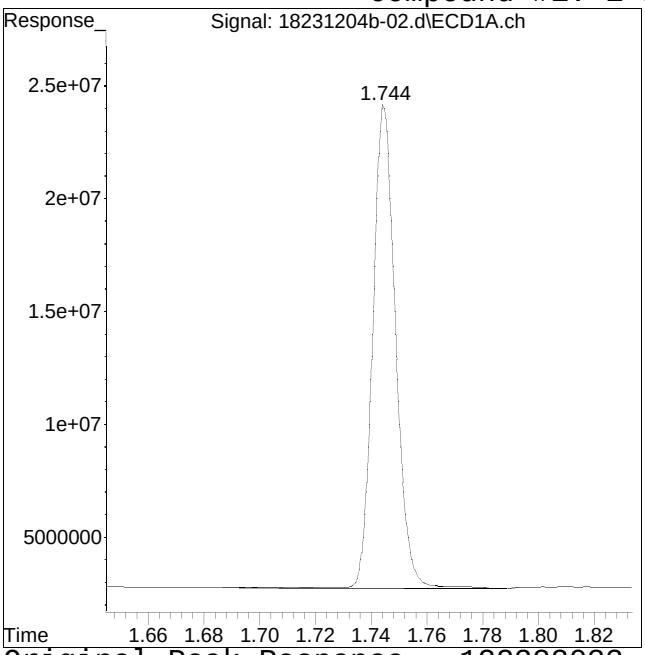
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

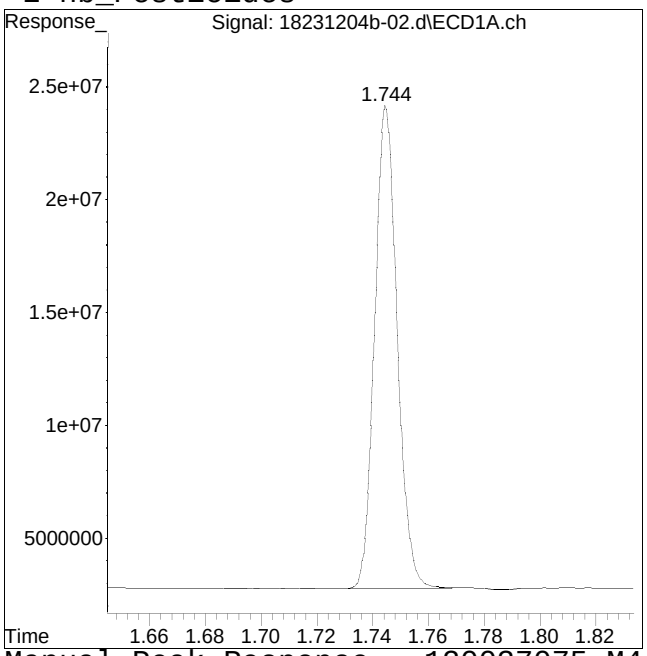


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-02.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:28 pm Instrument : Pest 18
Sample : pem18231204b-01,42,,deg113Quant Date : 12/4/2023 1:40 pm

Compound #1: 1-br-2-nb_Pesticides



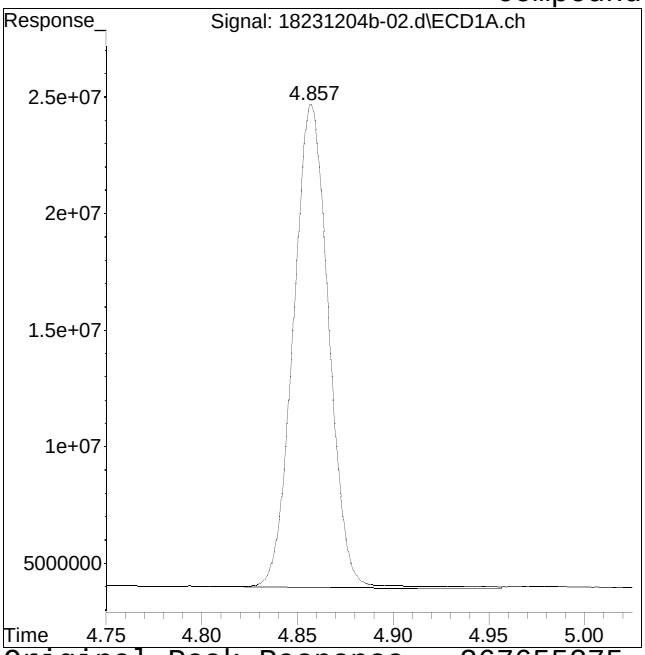


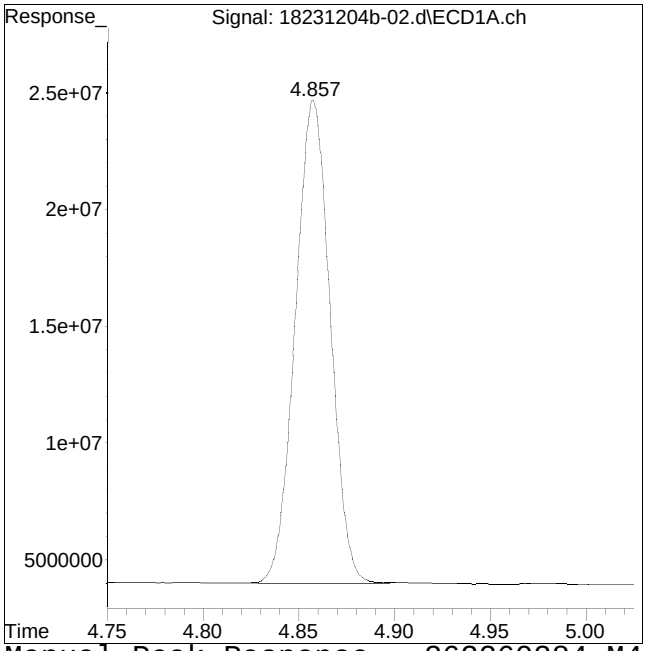
Original Peak Response = 122322033 Manual Peak Response = 120037075 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-02.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:28 pm Instrument : Pest 18
Sample : pem18231204b-01,42,,deg113Quant Date : 12/4/2023 1:40 pm

Compound #18: Endrin



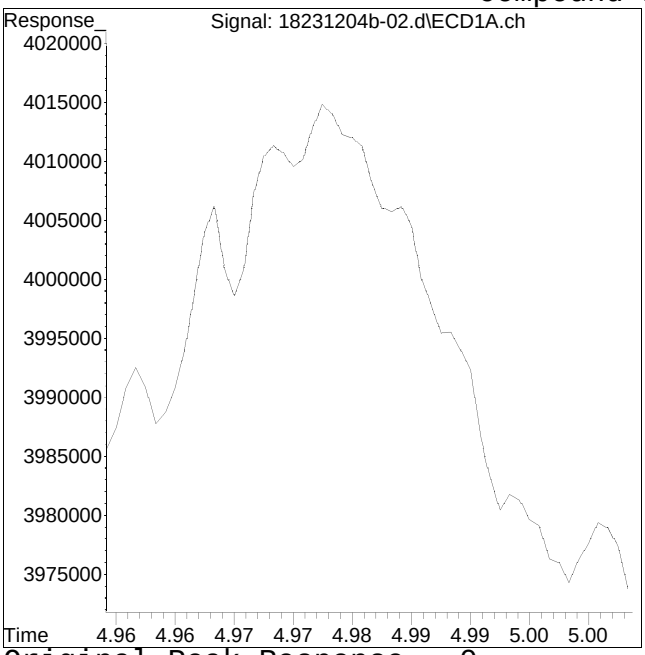


Original Peak Response = 267655275 Manual Peak Response = 262260284 M4
M4 = Poor automated baseline construction.

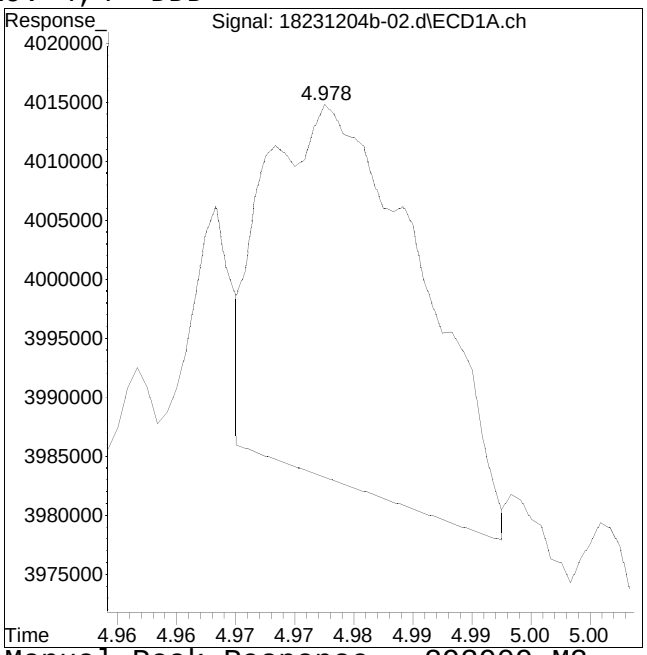
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-02.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:28 pm Instrument : Pest 18
Sample : pem18231204b-01,42,,deg113Quant Date : 12/4/2023 1:40 pm

Compound #19: 4,4'-DDD



Original Peak Response = 0



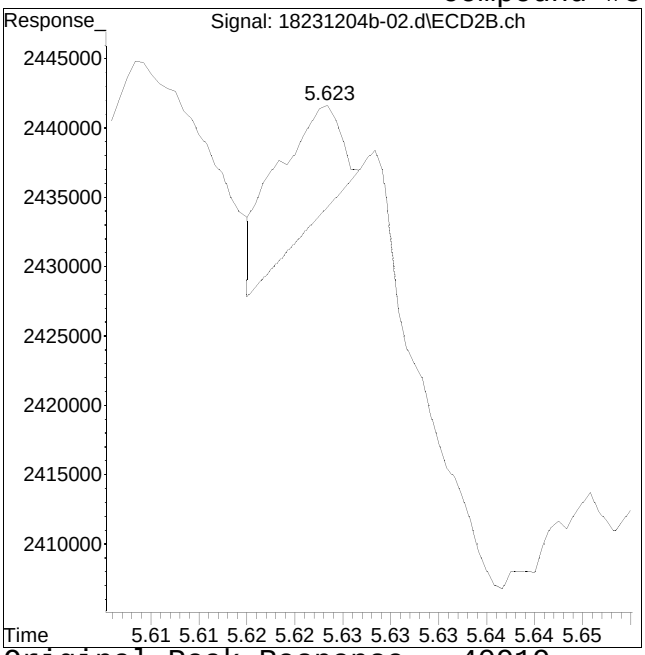
Manual Peak Response = 293909 M2

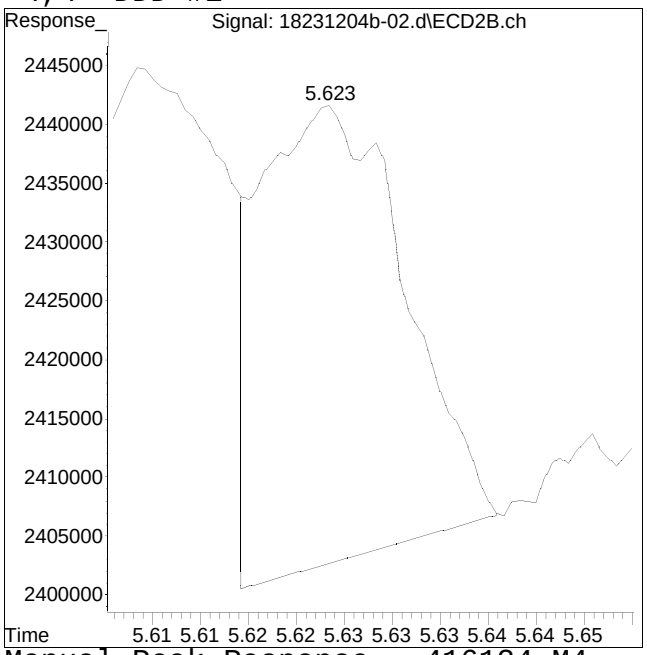
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-02.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:28 pm Instrument : Pest 18
Sample : pem18231204b-01,42,,deg113Quant Date : 12/4/2023 1:40 pm

Compound #57: 4,4'-DDD #2



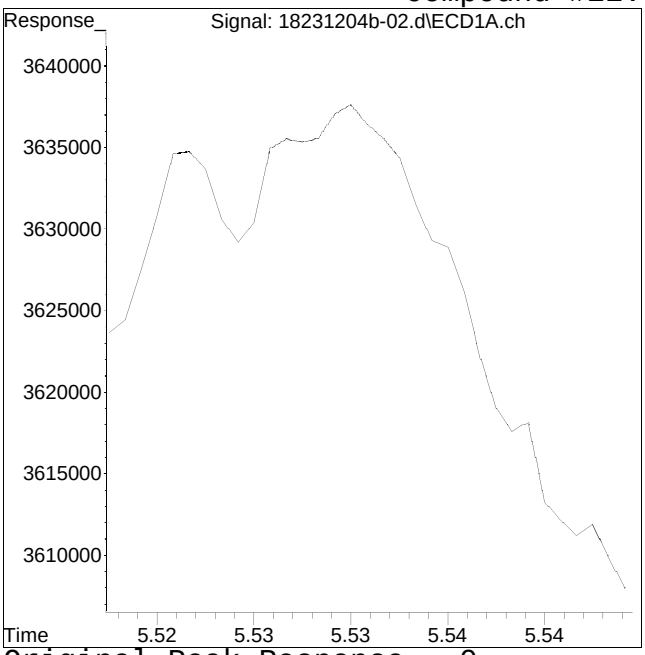


Original Peak Response = 40919 Manual Peak Response = 416124 M4
M4 = Poor automated baseline construction.

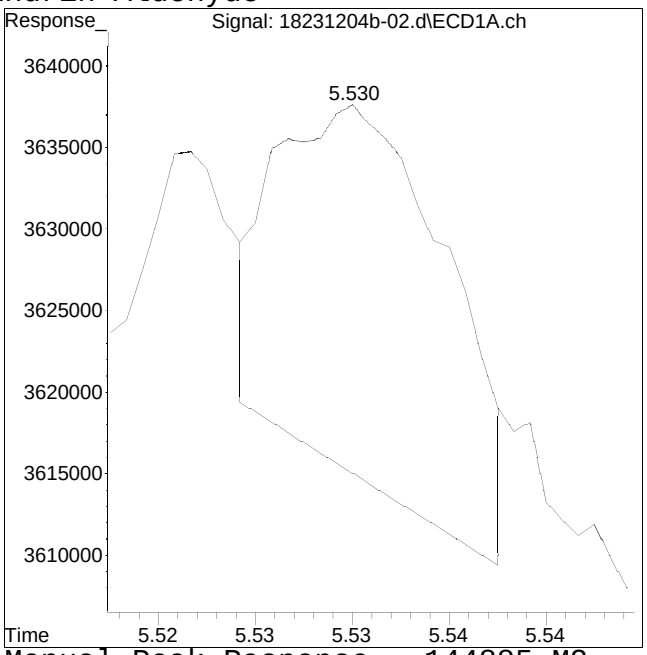
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-02.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:28 pm Instrument : Pest 18
Sample : pem18231204b-01,42,,deg113Quant Date : 12/4/2023 1:40 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 0



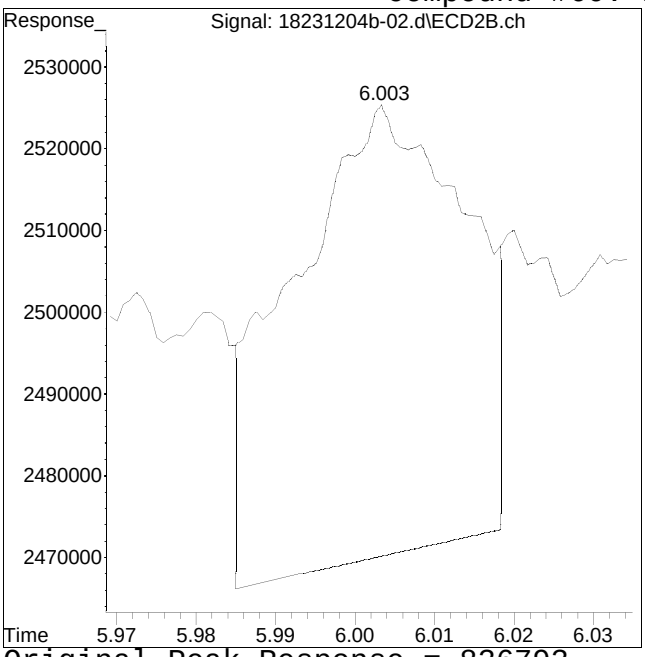
Manual Peak Response = 144885 M2

M2 = Peak not found by automatic integration algorithm.

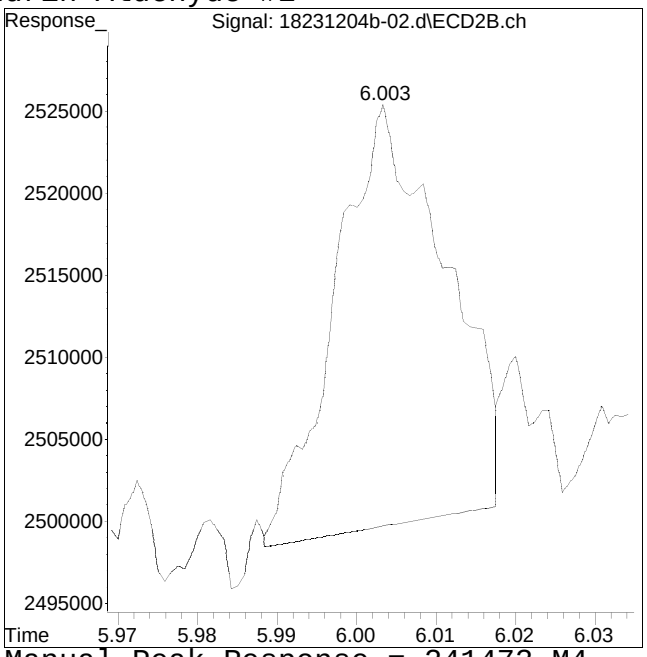
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231204QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231204b-02.d Operator : PEST18:akm
Date Inj'd : 12/4/2023 12:28 pm Instrument : Pest 18
Sample : pem18231204b-01,42,,deg113Quant Date : 12/4/2023 1:40 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 836793



Manual Peak Response = 241473 M4

M4 = Poor automated baseline construction.

RT Shift Summary

Identification Summary
Form 10
Pesticides

Client	**: Alpha Geoscience**	**Lab Number**	**: L2370783**
Project Name	**: HUNTINGTON READY MIX**	**Project Number**	**: 20116**

No Detections Found

Pesticides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231203a\
Data File : 18231203a-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 1:11 pm
Operator : PEST18:mmg
Sample : WG1859016-1,42,,
Misc : wg1859122,wg1859016,ical20463
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 11:04:47 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:53 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231203A\18231203a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.748	1.795	121.9E6	84468129	25.000M4	25.000M4
	Standard Area 1 : #1 = 122965531				Recovery = 99.13%		
	Standard Area 1 : #2 = 86667328				Recovery = 97.46%		
28) i	1-br-2-nb_Ch	1.748	1.795	121.9E6	84468129	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.748	1.795	121.9E6	84468129	25.000M4	25.000M4
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.183	2.348	198.6E6	139.7E6	39.180M4	39.119M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 78.36%		78.24%
27) s	Decachlorobi	6.979	7.548	140.2E6	110.3E6	28.800M4	32.911M4
	Spiked Amount 50.000	Range 30 - 150			Recovery = 57.60%		65.82%
Target Compounds							
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\PEST\Pest18\2023\231203a\
Data File : 18231203a-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 1:11 pm
Operator : PEST18:mmg
Sample : WG1859016-1,42,,
Misc : wg1859122,wg1859016,ical20463
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 11:04:47 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:53 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231203A\18231203a-03.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

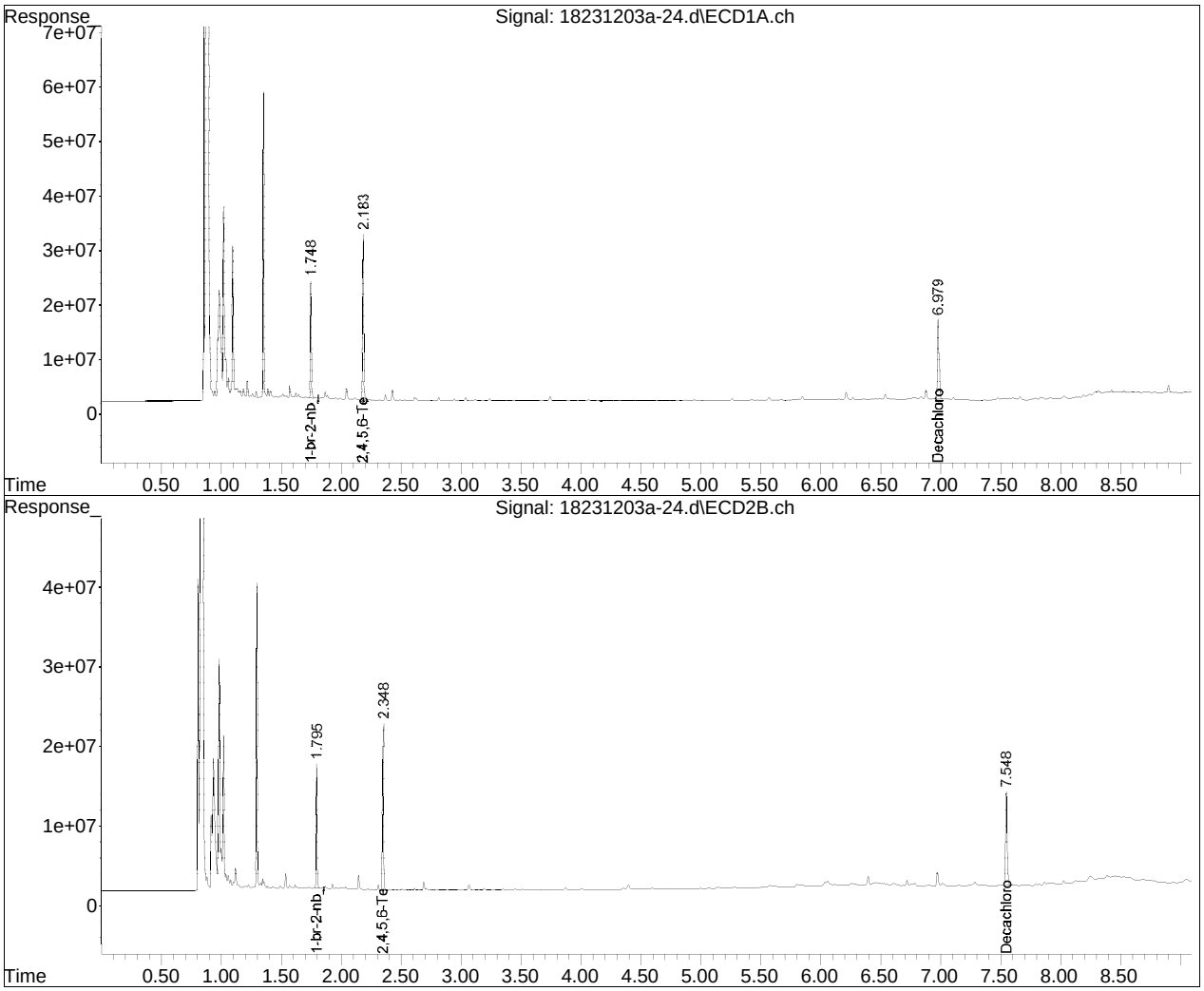
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA\18231203a-03.d••

Data Path : I:\PEST\Pest18\2023\231203a\
Data File : 18231203a-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 1:11 pm
Operator : PEST18:mmg
Sample : WG1859016-1,42,,
Misc : wg1859122,wg1859016,ical20463
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 11:04:47 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:53 2023
Response via : Initial Calibration
Integrator: ChemStation

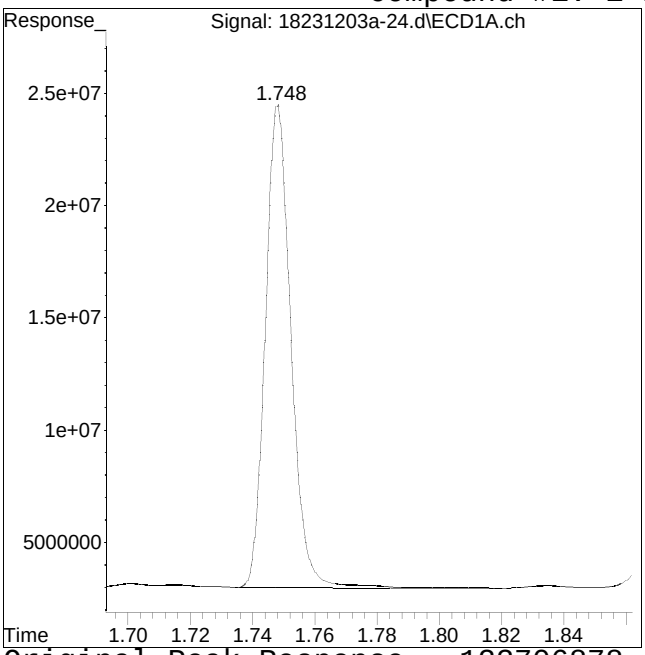
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

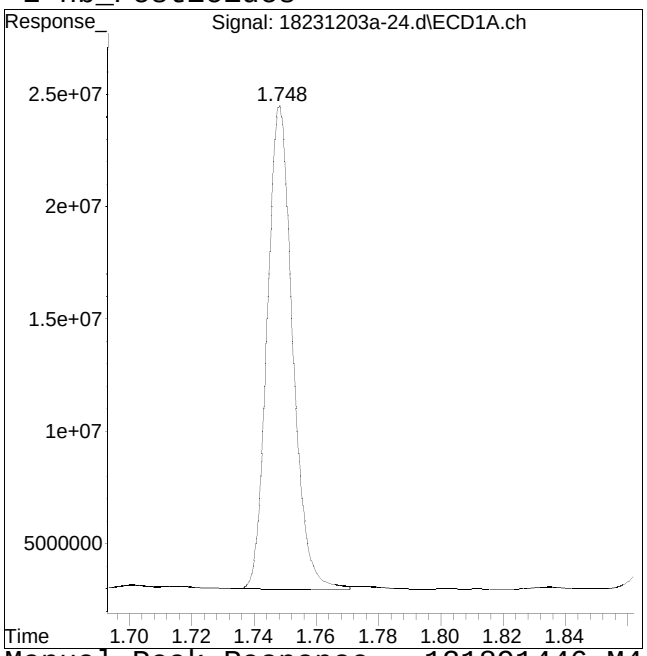


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-24.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:11 pm Instrument : Pest 18
Sample : WG1859016-1,42,, Quant Date : 12/3/2023 1:44 pm

Compound #1: 1-br-2-nb_Pesticides



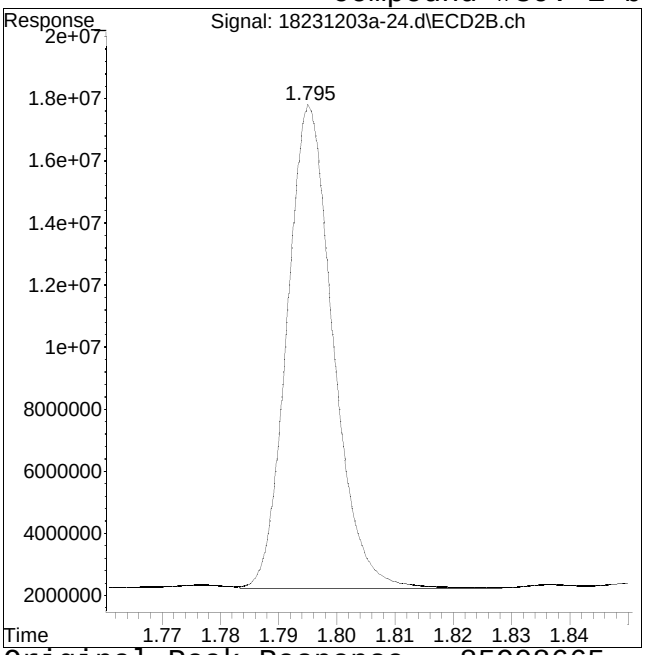


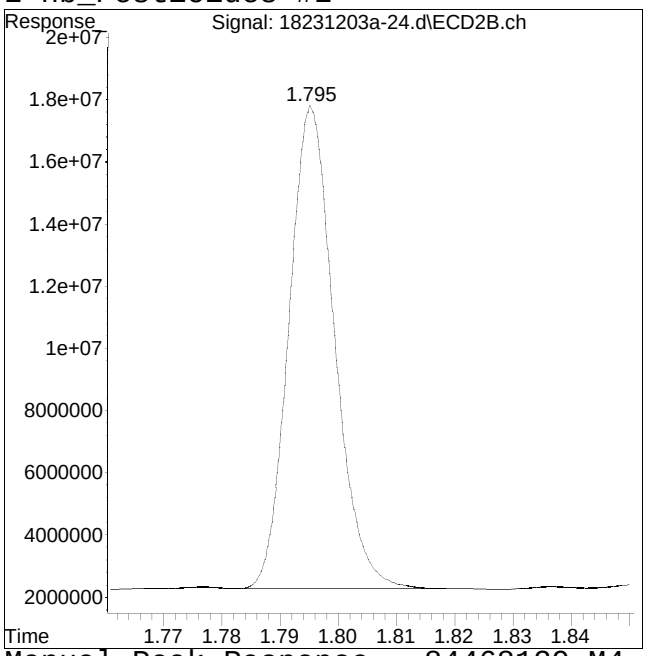
Original Peak Response = 123706878 Manual Peak Response = 121891446 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-24.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:11 pm Instrument : Pest 18
Sample : WG1859016-1,42,, Quant Date : 12/3/2023 1:44 pm

Compound #39: 1-br-2-nb_Pesticides #2



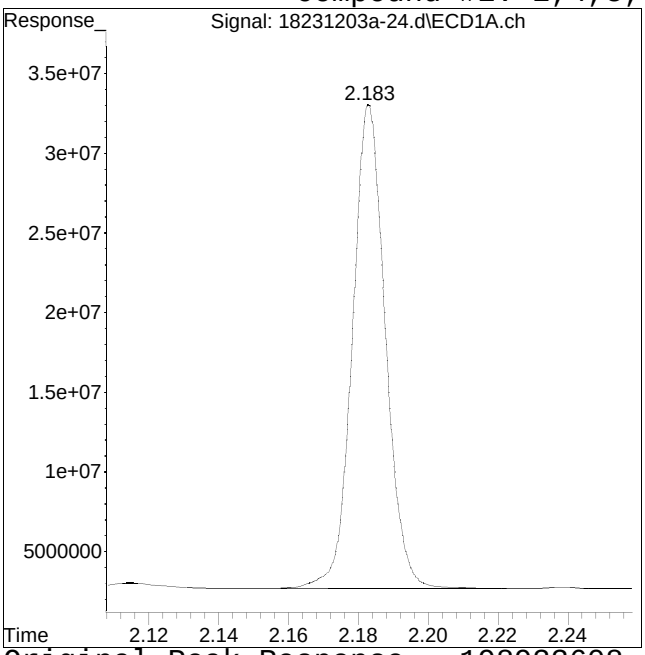


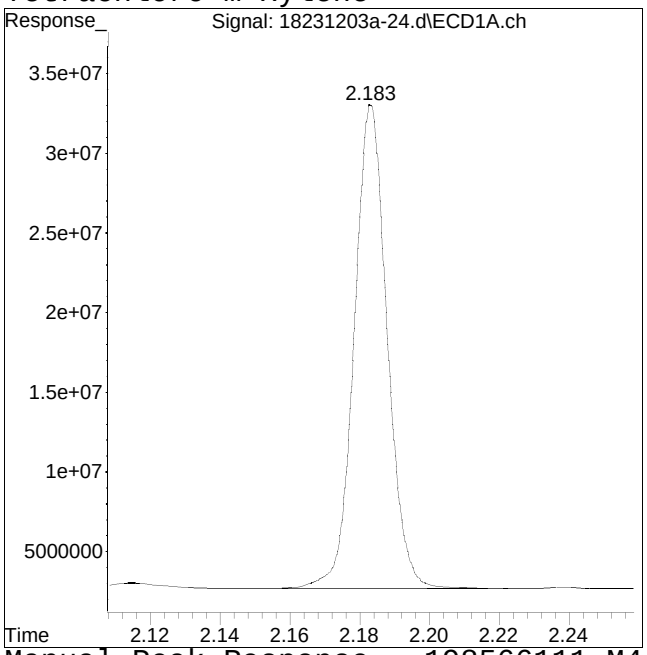
Original Peak Response = 85908665 Manual Peak Response = 84468129 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-24.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:11 pm Instrument : Pest 18
Sample : WG1859016-1,42,, Quant Date : 12/3/2023 1:44 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



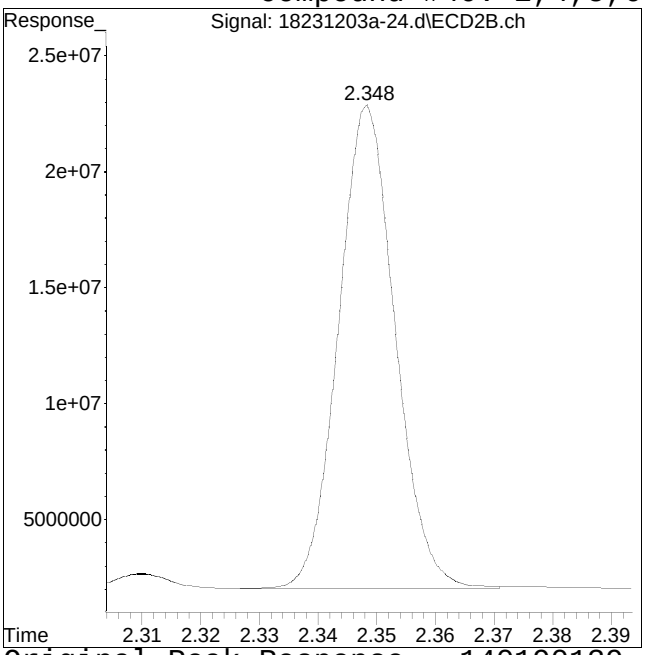


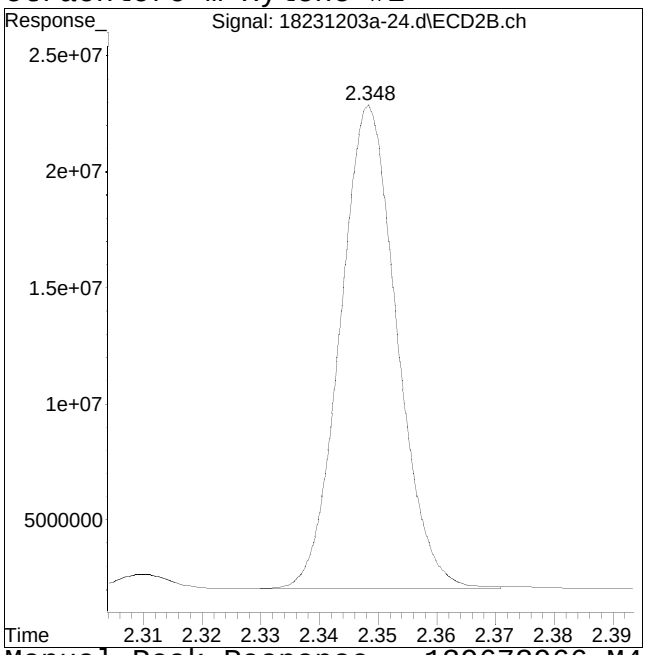
Original Peak Response = 198933608 Manual Peak Response = 198566111 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-24.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:11 pm Instrument : Pest 18
Sample : WG1859016-1,42,, Quant Date : 12/3/2023 1:44 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



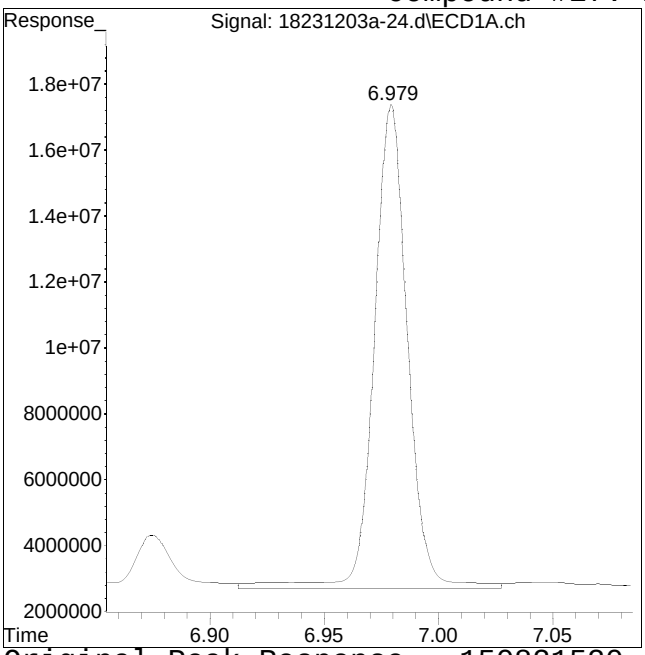


Original Peak Response = 140190139 Manual Peak Response = 139673966 M4
M4 = Poor automated baseline construction.

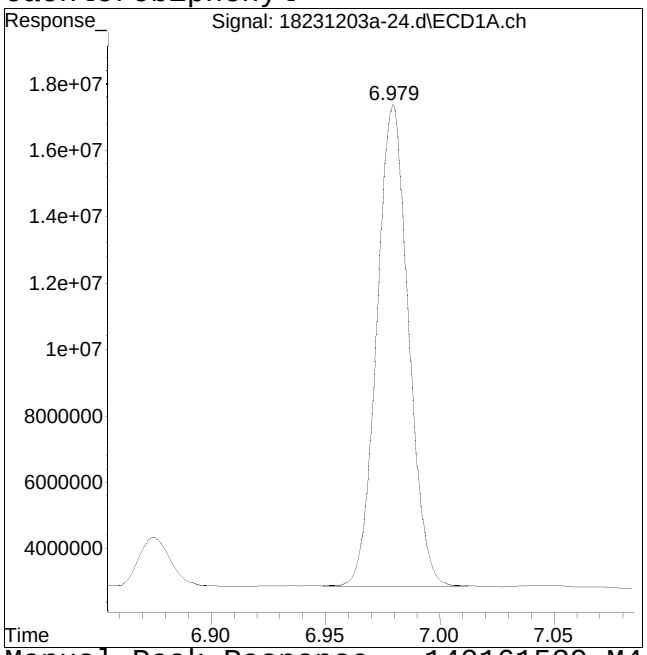
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-24.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:11 pm Instrument : Pest 18
Sample : WG1859016-1,42,, Quant Date : 12/3/2023 1:44 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 150821520



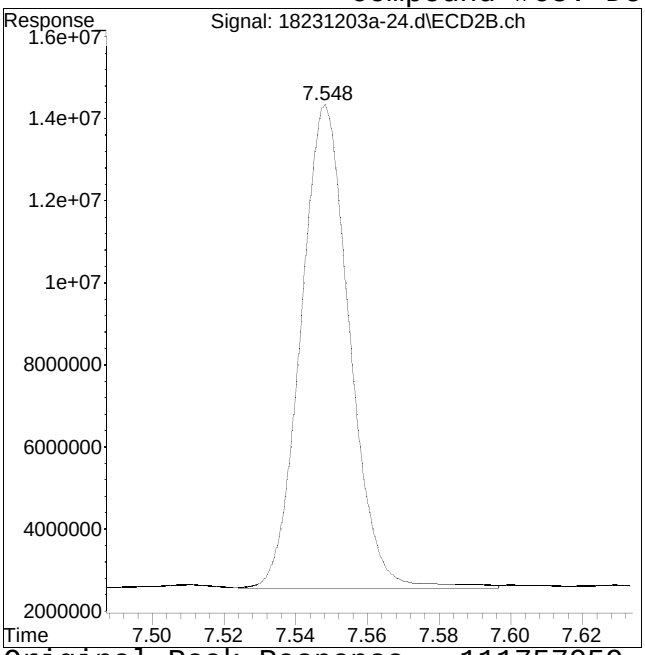
Manual Peak Response = 140161539 M4

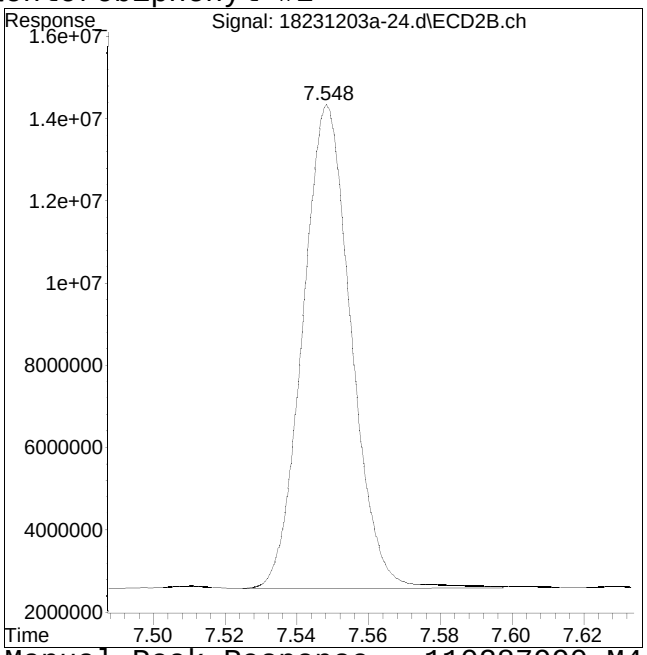
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-24.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:11 pm Instrument : Pest 18
Sample : WG1859016-1,42,, Quant Date : 12/3/2023 1:44 pm

Compound #65: Decachlorobiphenyl #2



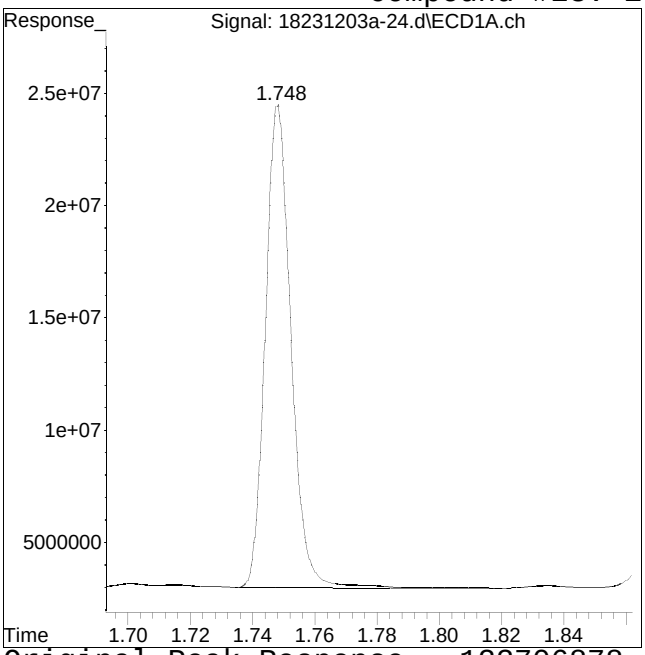


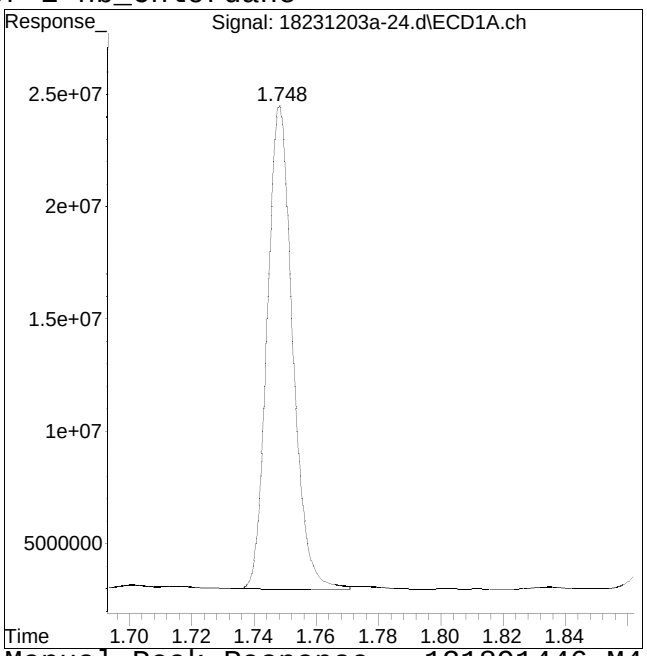
Original Peak Response = 111757959 Manual Peak Response = 110287990 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-24.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:11 pm Instrument : Pest 18
Sample : WG1859016-1,42,, Quant Date : 12/3/2023 1:44 pm

Compound #28: 1-br-2-nb_Chlordane



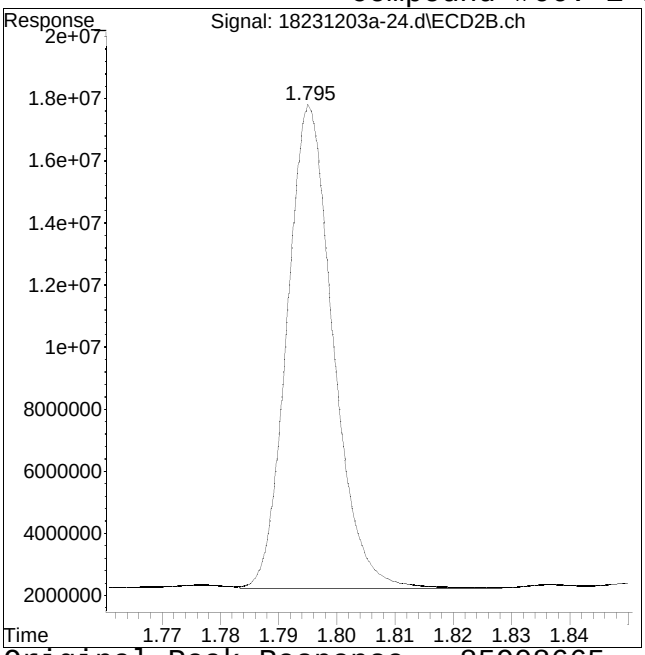


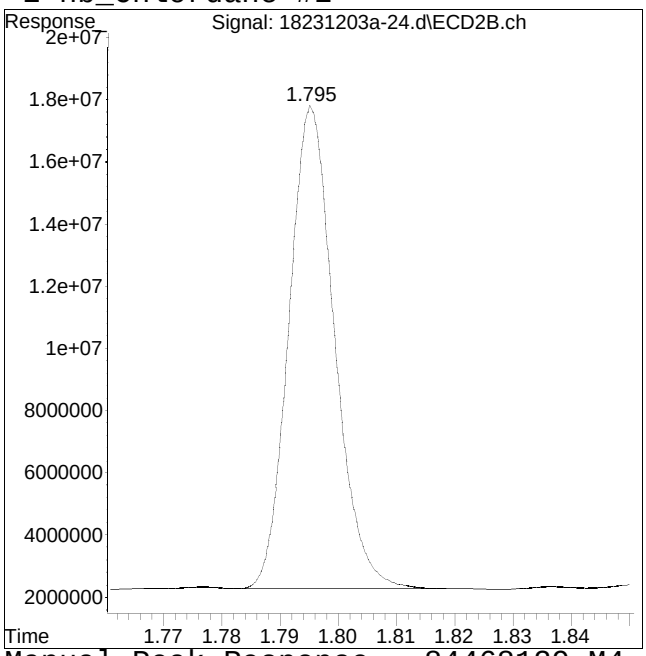
Original Peak Response = 123706878 Manual Peak Response = 121891446 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-24.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:11 pm Instrument : Pest 18
Sample : WG1859016-1,42,, Quant Date : 12/3/2023 1:44 pm

Compound #66: 1-br-2-nb_Chlordane #2



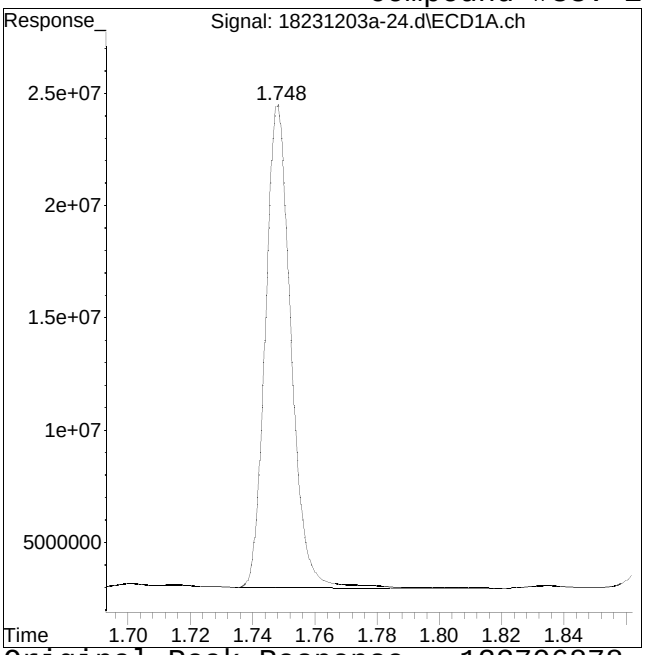


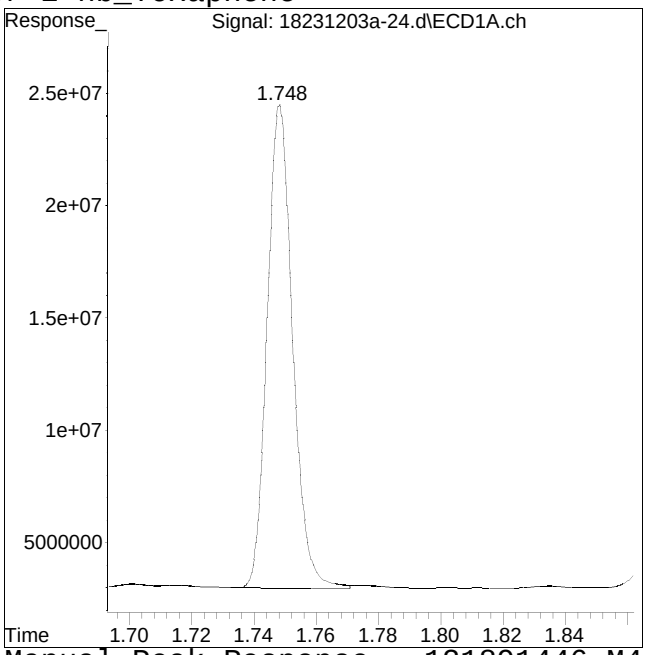
Original Peak Response = 85908665 Manual Peak Response = 84468129 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-24.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:11 pm Instrument : Pest 18
Sample : WG1859016-1,42,, Quant Date : 12/3/2023 1:44 pm

Compound #33: 1-br-2-nb_Toxaphene



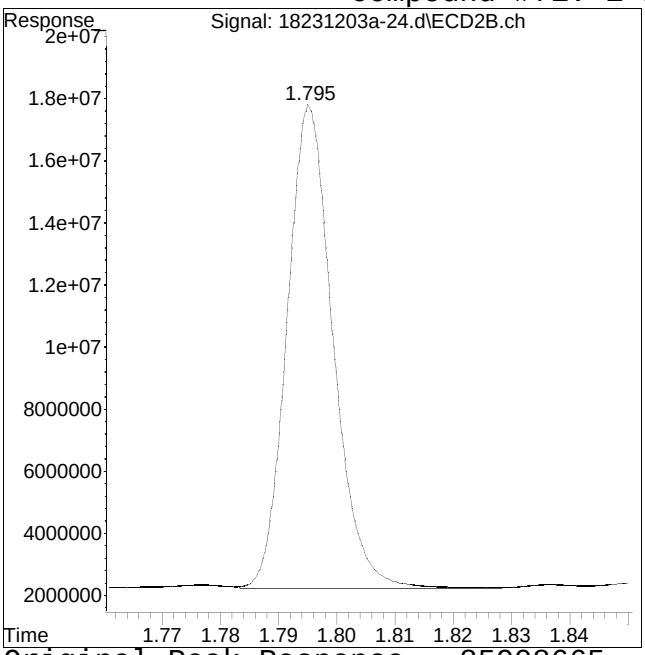


Original Peak Response = 123706878 Manual Peak Response = 121891446 M4
M4 = Poor automated baseline construction.

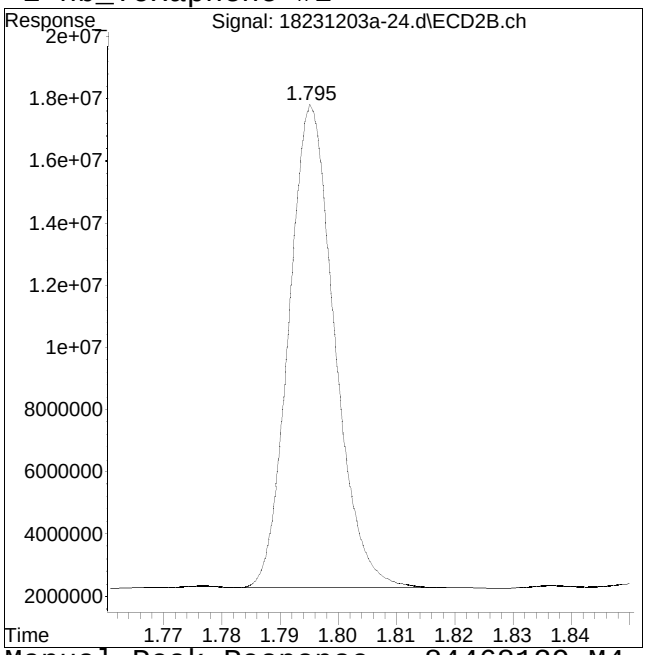
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-24.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:11 pm Instrument : Pest 18
Sample : WG1859016-1,42,, Quant Date : 12/3/2023 1:44 pm

Compound #71: 1-br-2-nb_Toxaphene #2



Original Peak Response = 85908665



Manual Peak Response = 84468129 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231203a\
Data File : 18231203a-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 1:23 pm
Operator : PEST18:mmg
Sample : WG1859016-2,42,,
Misc : wg1859122,wg1859016,ical20463
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 11:21:31 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:53 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231203A\18231203a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.748	1.796	123.6E6	86378968	25.000M4	25.000M4
	Standard Area 1 : #1 = 122965531				Recovery = 100.50%		
	Standard Area 1 : #2 = 86667328				Recovery = 99.67%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.183	2.348	213.2E6	150.4E6	41.495M4	41.191M4
	Spiked Amount 50.000	Range 30 - 150		Recovery = 82.99%		82.38%	
27) s	Decachlorobi	6.979	7.546	168.9E6	109.0E6	34.491	31.803
	Spiked Amount 50.000	Range 30 - 150		Recovery = 68.98%		63.61%	
Target Compounds							
4)	alpha-BHC	2.539	2.793	279.8E6	200.0E6	43.022M4	42.878
5)	gamma-BHC (l	2.760	3.087	253.6E6	187.1E6	42.222M4	42.870
6)	beta-BHC	2.826	3.160	120.9E6	86706077	44.270M4	43.884
7)	delta-BHC	2.961	3.428	249.3E6	173.1E6	40.543M4	39.423M4
8)	Heptachlor	3.128	3.486	241.4E6	174.1E6	40.872M4	40.458
9)	Aldrin	3.380	3.804	217.1E6	163.6E6	38.460M4	40.042
12)	Heptachlor E	3.944	4.420	215.7E6	155.5E6	39.098M4	38.504M4
13)	gamma-Chlord	4.072	4.642	213.5E6	163.4E6	38.290M4	44.343
14)	alpha-Chlord	4.208	4.816	202.5E6	161.7E6	34.326M4	38.732
15)	4,4'-DDE	4.314	5.031	206.7E6	162.5E6	37.197	40.159M4
16)	Endosulfan I	4.345	4.877	194.4E6	150.8E6	37.131M4	39.723M4
17)	Dieldrin	4.609	5.185	225.5E6	171.7E6	41.845M4	44.414
18)	Endrin	4.866	5.494	220.6E6	163.8E6	38.672M4	42.000M4
19)	4,4'-DDD	4.987	5.632	183.5E6	143.7E6	41.118M4	44.196M4
20)	Endosulfan I	5.114	5.702	197.1E6	150.3E6	39.183M4	41.889M4
21)	4,4'-DDT	5.285	5.917	193.4E6	147.5E6	44.121M4	51.957M4
22)	Endrin Aldeh	5.538	6.008	126.2E6	97318037	30.773M4	33.303M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231203a\
Data File : 18231203a-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 1:23 pm
Operator : PEST18:mmg
Sample : WG1859016-2,42,,
Misc : wg1859122,wg1859016,ical20463
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 11:21:31 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:53 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231203A\18231203a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23) Methoxychlor	5.784	6.499	114.6E6	83000495	56.250M4	51.977M4
25) Endosulfan S	5.936	6.244	182.1E6	138.1E6	38.774M4	40.325M4
26) Endrin Keton	6.165	6.661	221.2E6	164.6E6	47.851M4	48.840M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

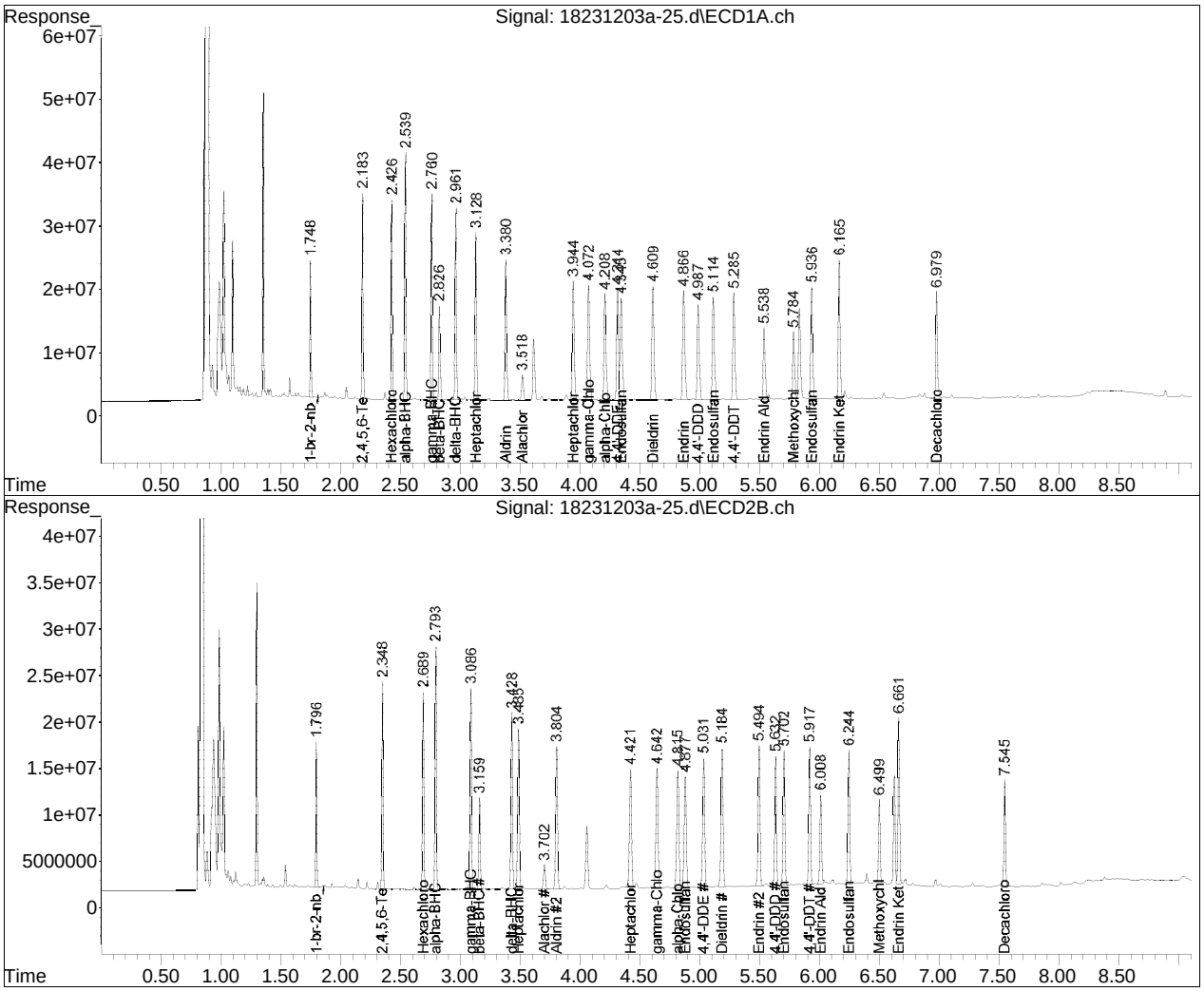
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only8\2023\231203A\18231203a-03.d••

Data Path : I:\PEST\Pest18\2023\231203a\
Data File : 18231203a-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 1:23 pm
Operator : PEST18:mmg
Sample : WG1859016-2,42,,
Misc : wg1859122,wg1859016,ical20463
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 11:21:31 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:53 2023
Response via : Initial Calibration
Integrator: ChemStation

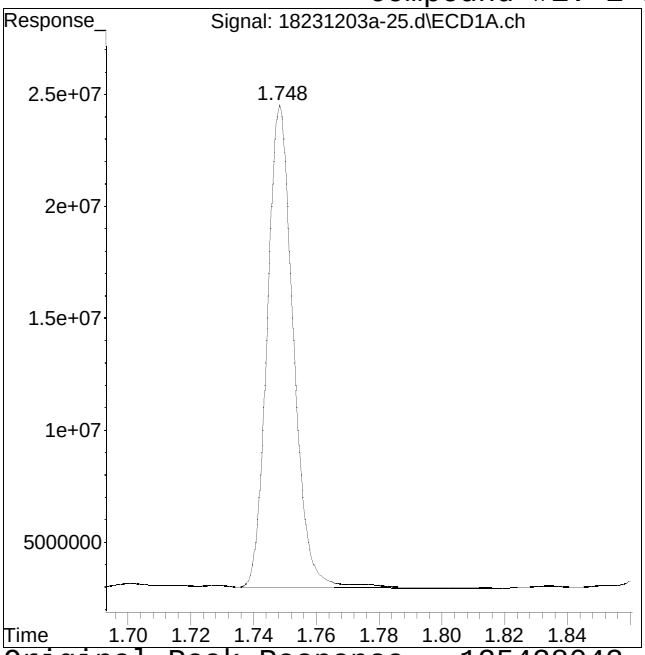
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

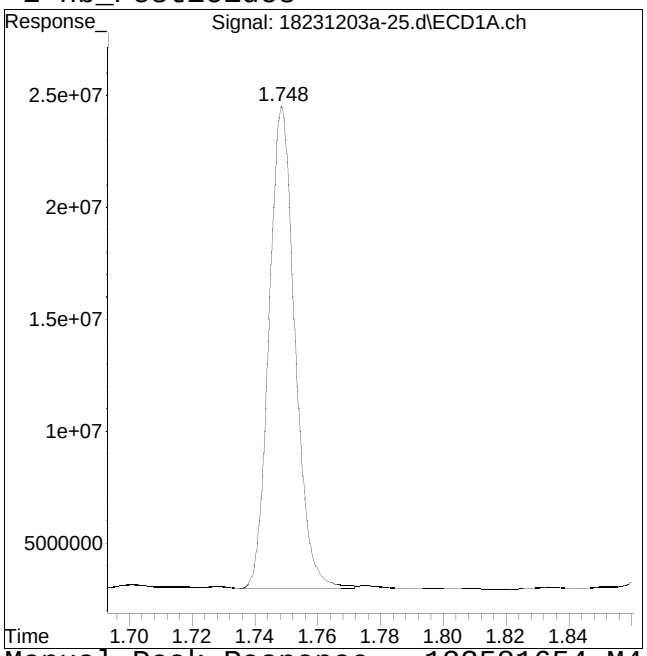


Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #1: 1-br-2-nb_Pesticides



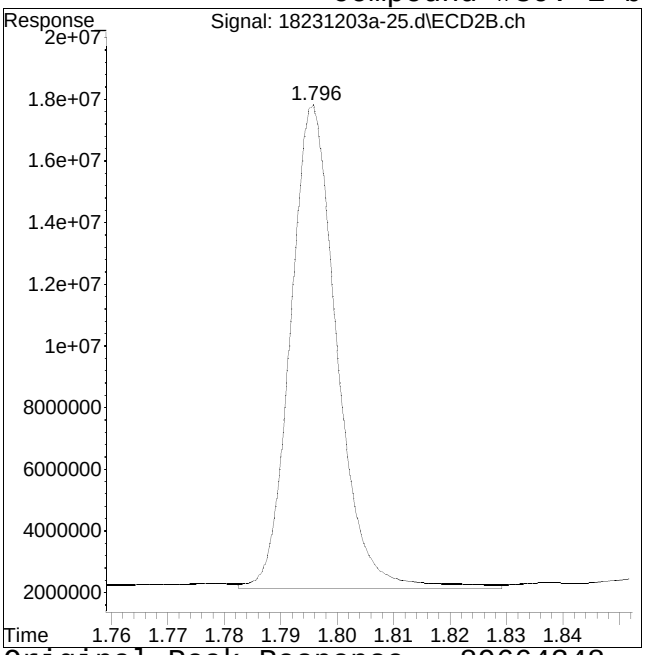


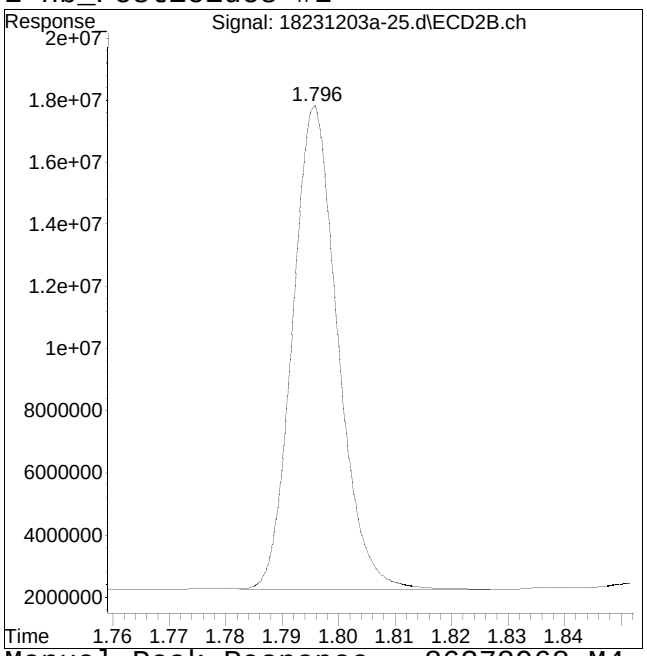
Original Peak Response = 125438043 Manual Peak Response = 123581654 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #39: 1-br-2-nb_Pesticides #2



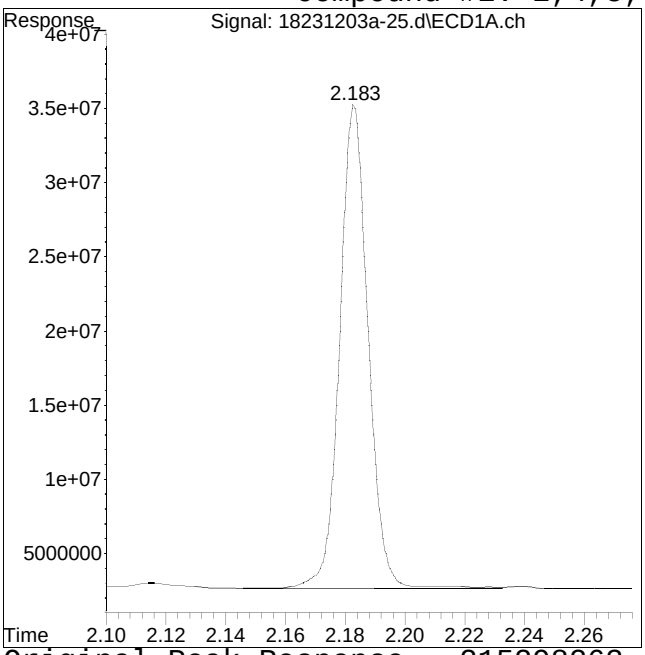


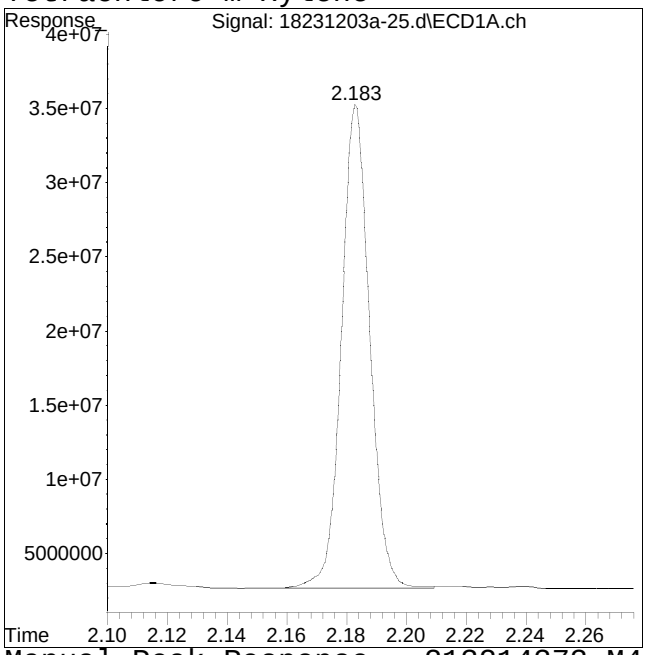
Original Peak Response = 89664348 Manual Peak Response = 86378968 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



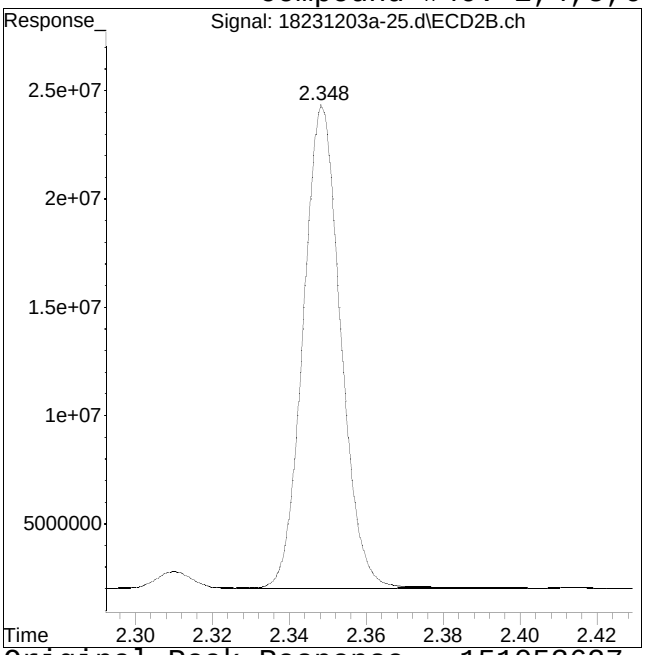


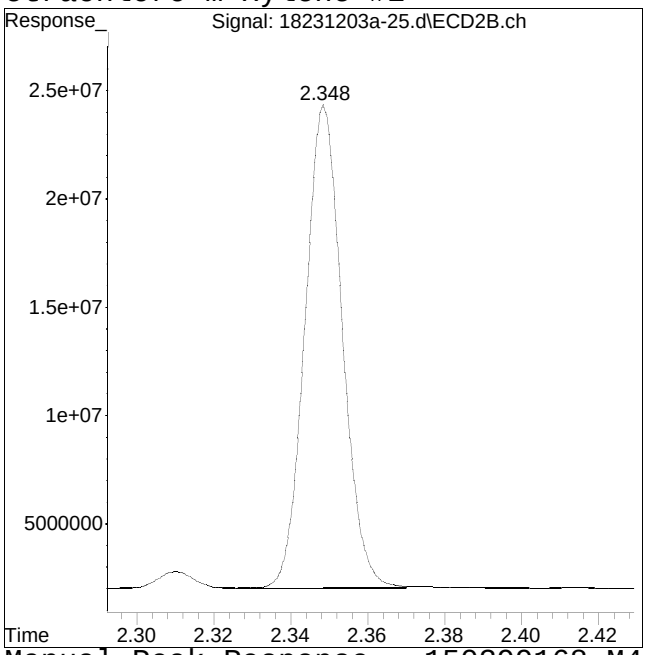
Original Peak Response = 215298263 Manual Peak Response = 213214373 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



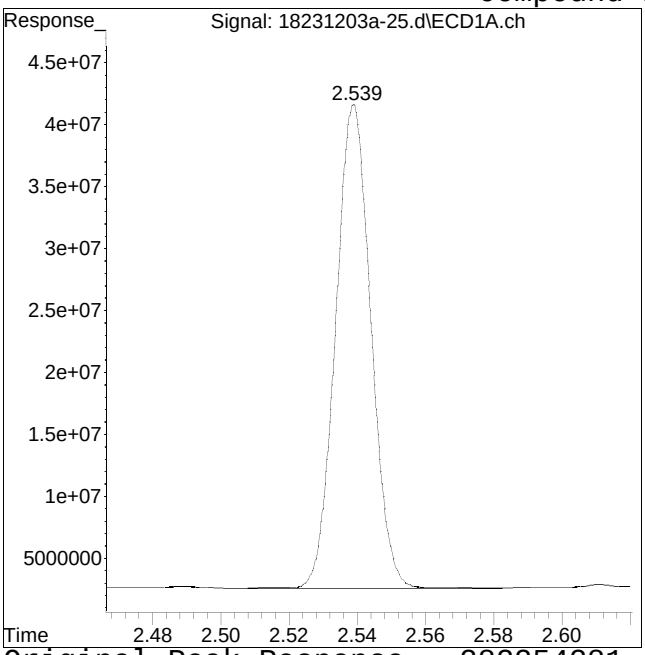


Original Peak Response = 151053627 Manual Peak Response = 150399168 M4
M4 = Poor automated baseline construction.

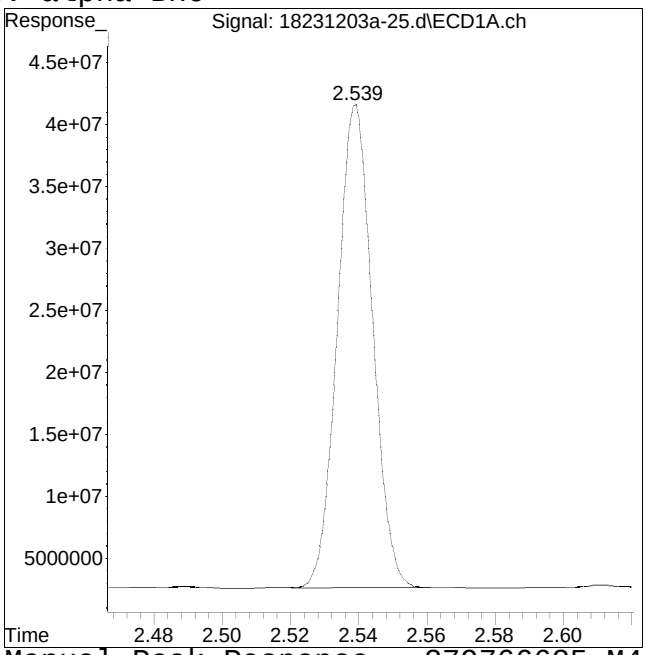
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #4: alpha-BHC



Original Peak Response = 282254281



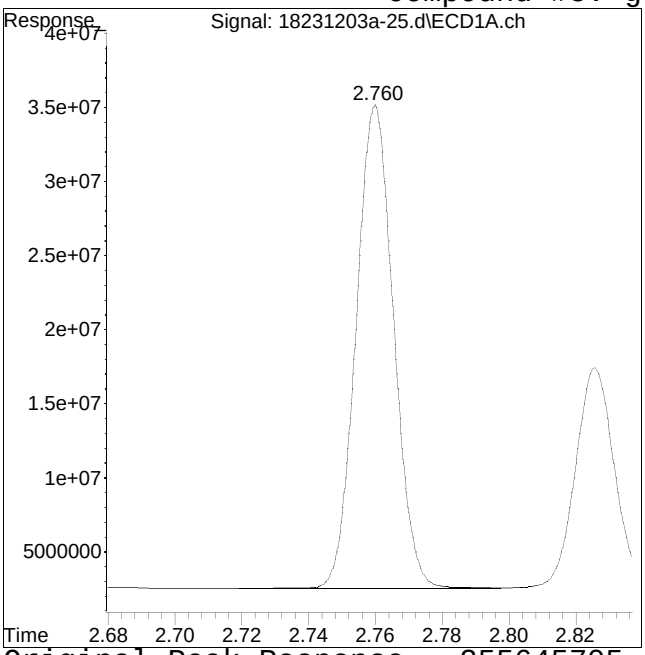
Manual Peak Response = 279766625 M4

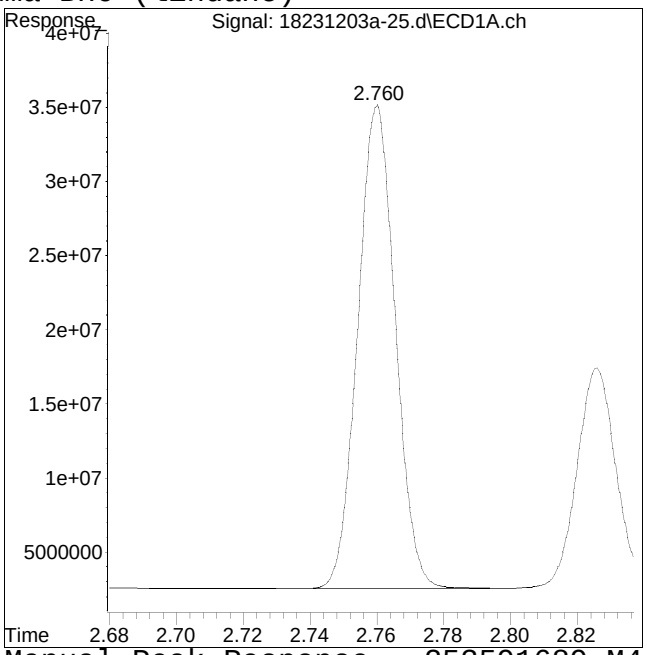
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #5: gamma-BHC (lindane)



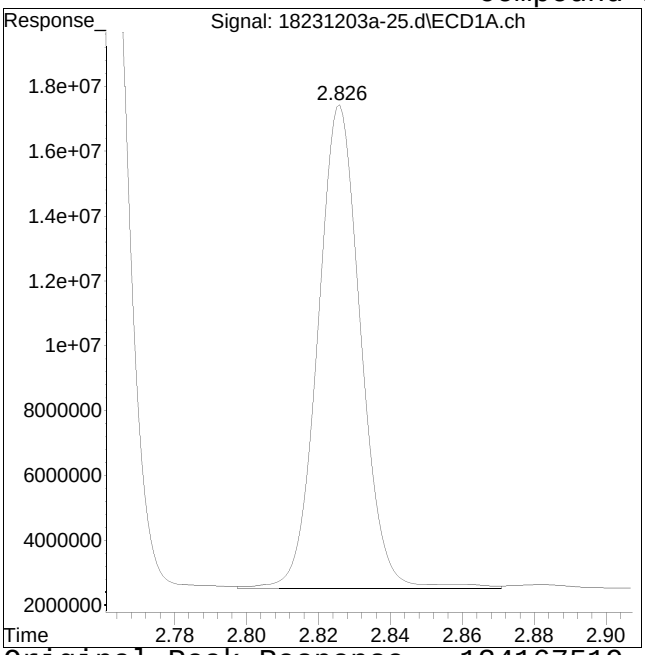


Original Peak Response = 255645705 Manual Peak Response = 253591689 M4
M4 = Poor automated baseline construction.

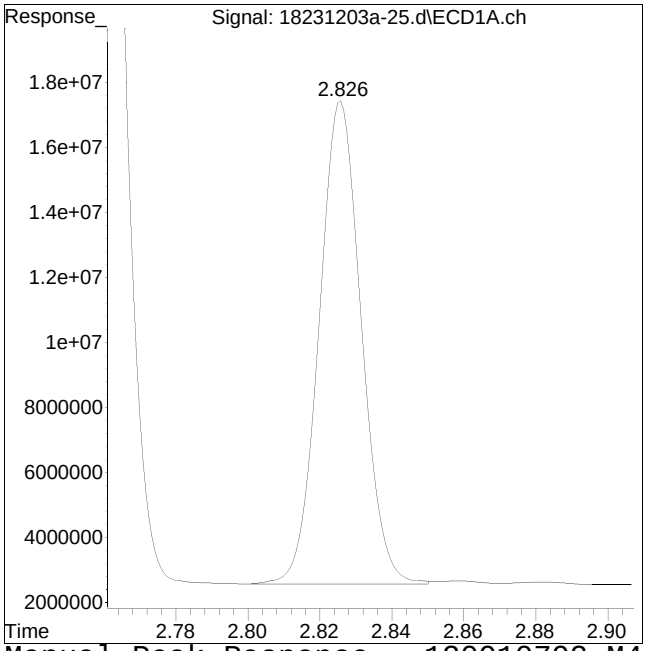
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #6: beta-BHC



Original Peak Response = 124167519

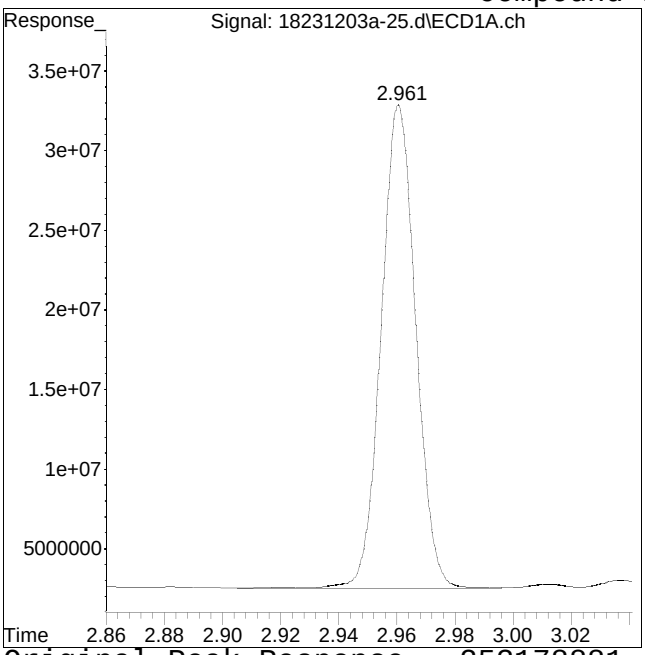


Manual Peak Response = 120910792 M4
M4 = Poor automated baseline construction.

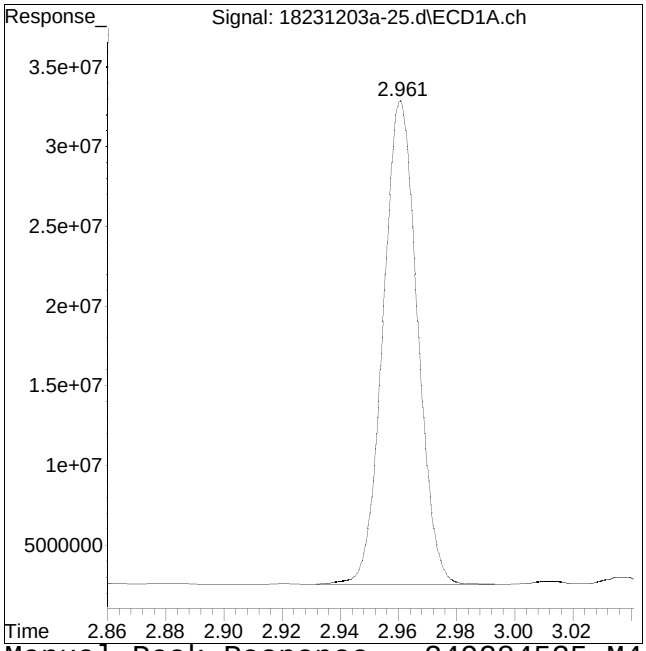
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #7: delta-BHC



Original Peak Response = 253178881



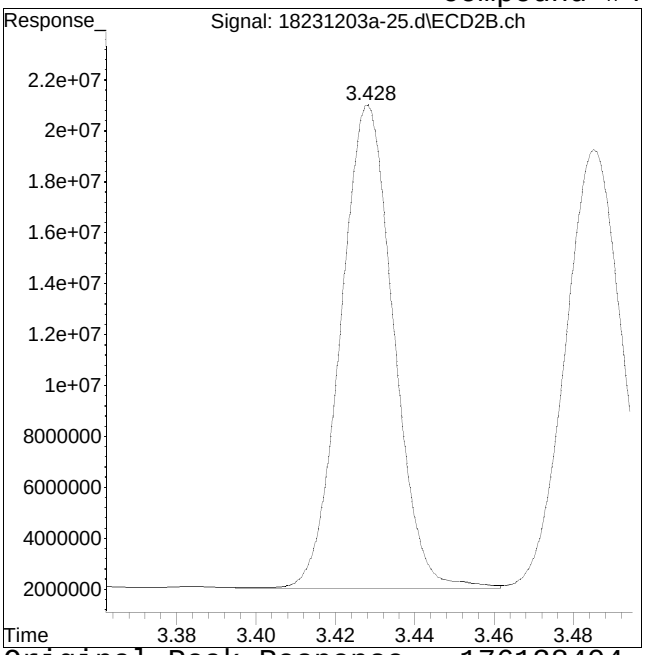
Manual Peak Response = 249284535 M4

M4 = Poor automated baseline construction.

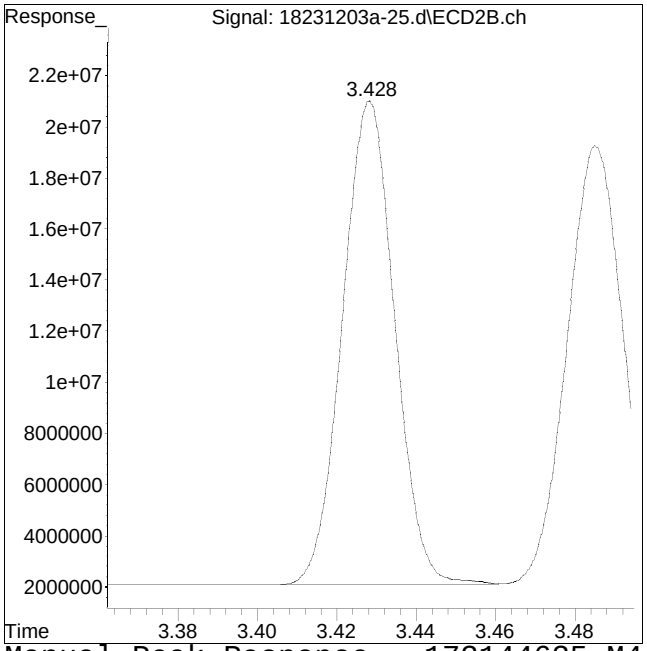
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #45: delta-BHC #2



Original Peak Response = 176138404

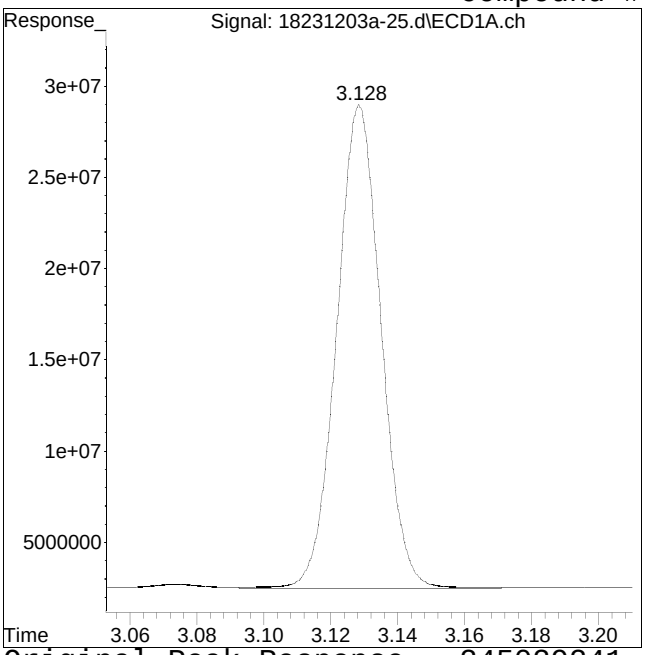


Manual Peak Response = 173144635 M4
M4 = Poor automated baseline construction.

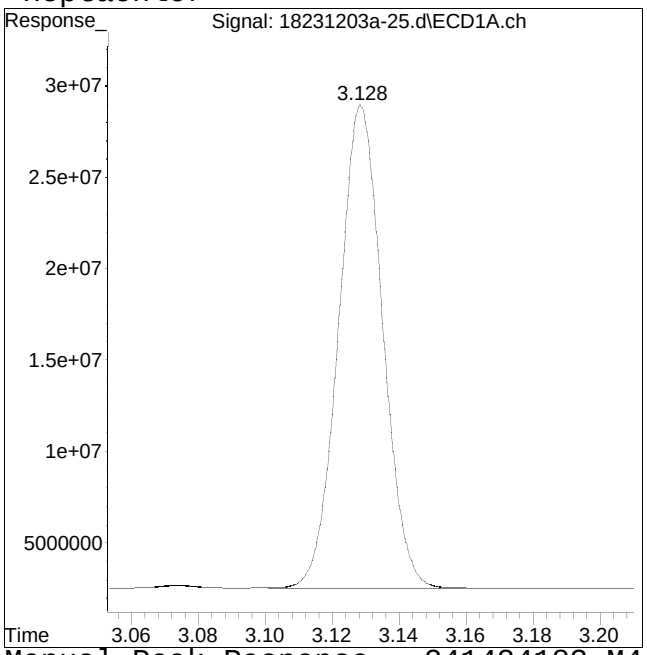
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #8: Heptachlor



Original Peak Response = 245029241



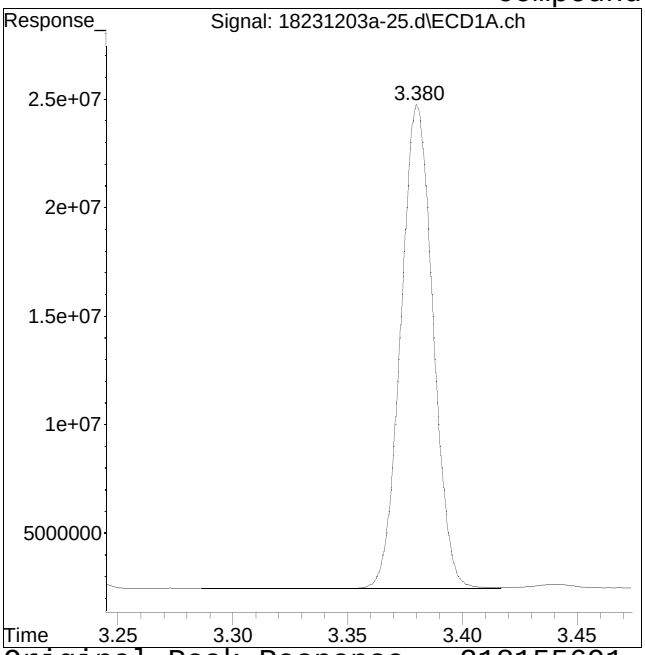
Manual Peak Response = 241424183 M4

M4 = Poor automated baseline construction.

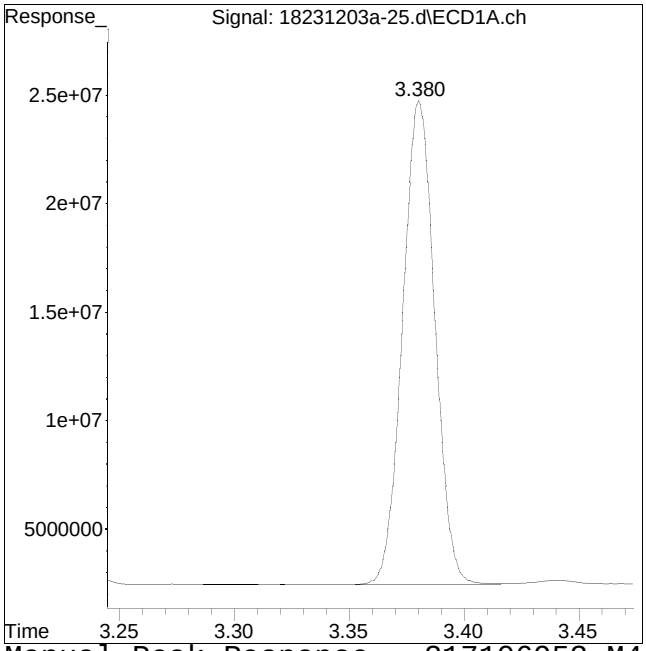
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #9: Aldrin



Original Peak Response = 218155691



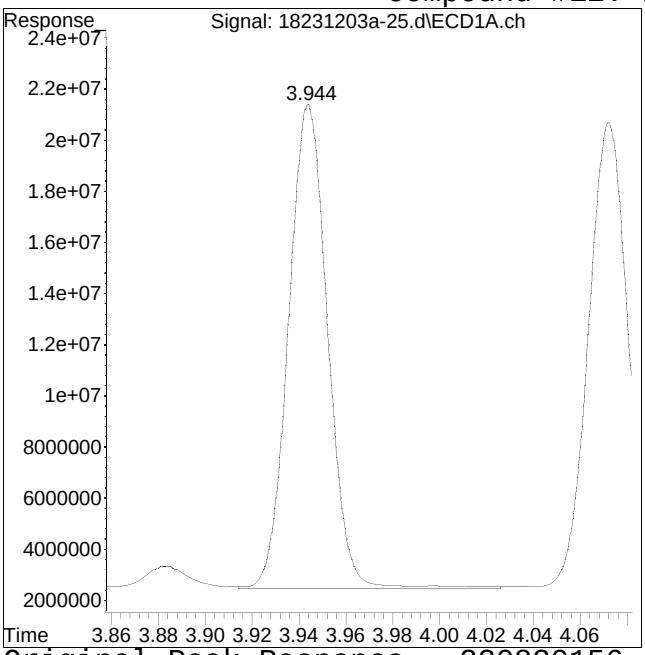
Manual Peak Response = 217106953 M4

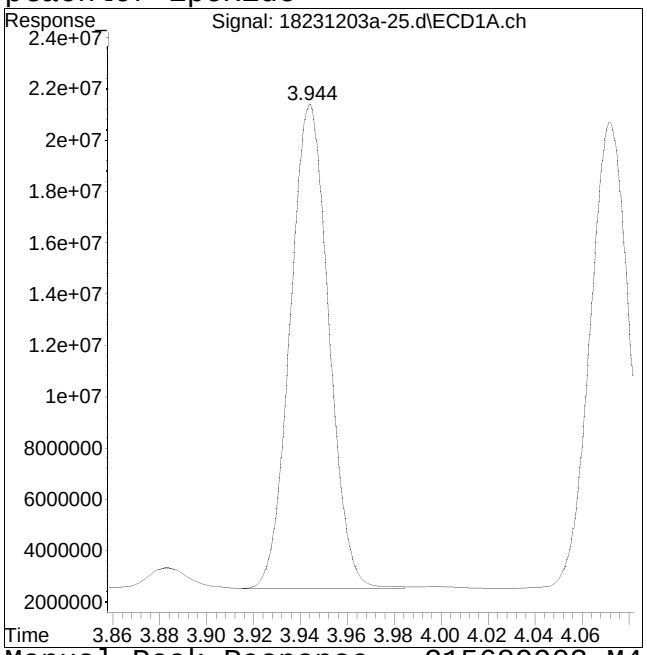
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #12: Heptachlor Epoxide



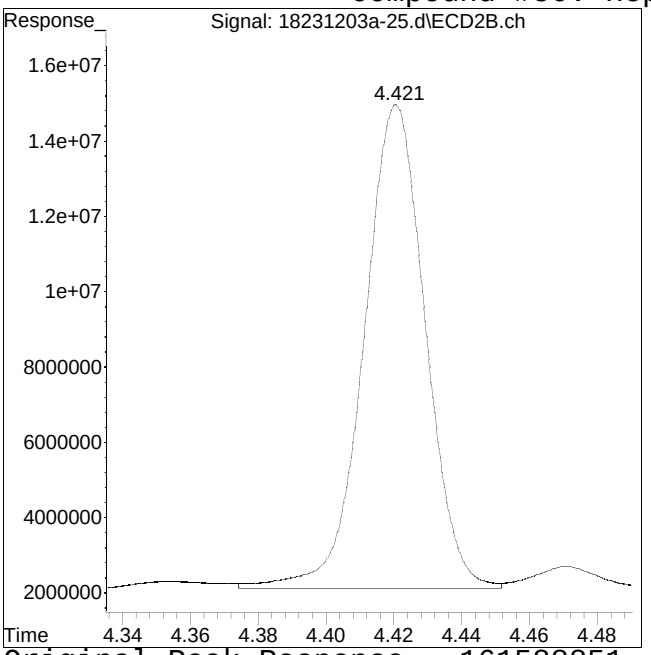


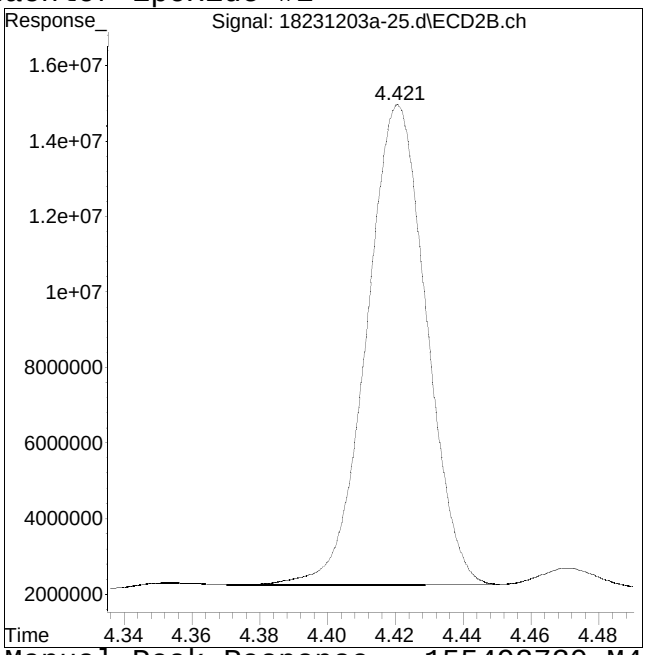
Original Peak Response = 220830156 Manual Peak Response = 215689903 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #50: Heptachlor Epoxide #2



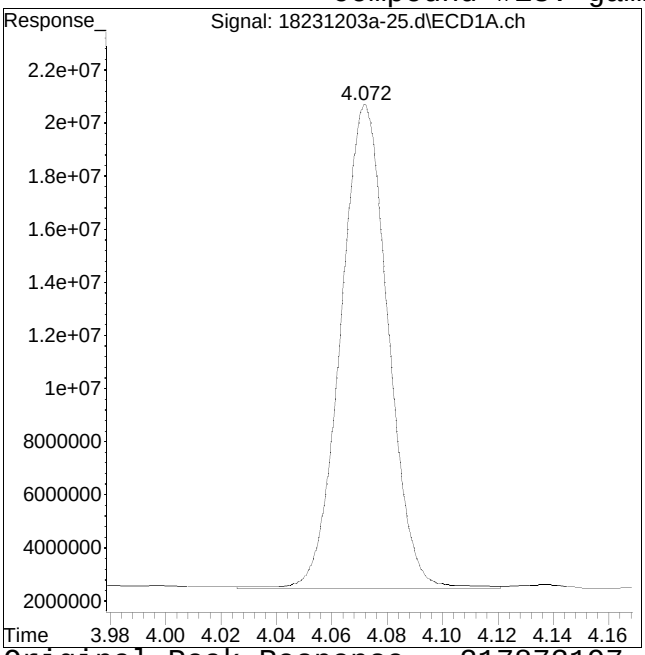


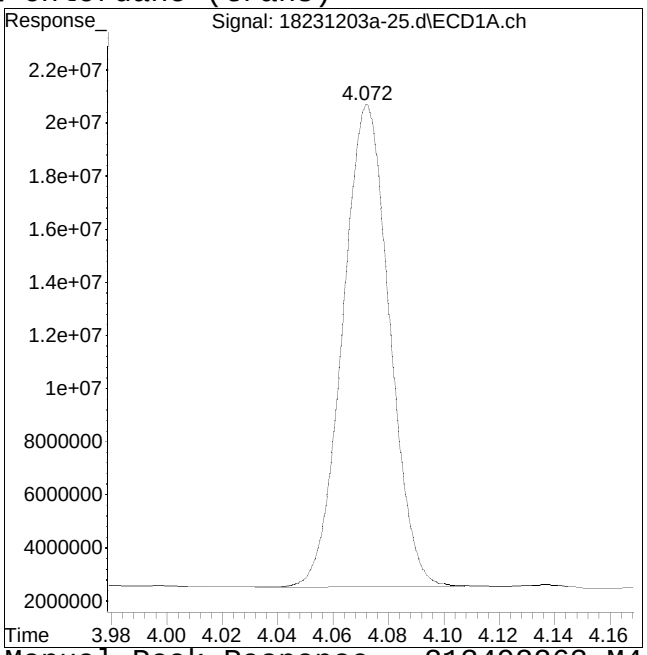
Original Peak Response = 161588851 Manual Peak Response = 155492730 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #13: gamma-Chlordane (trans)



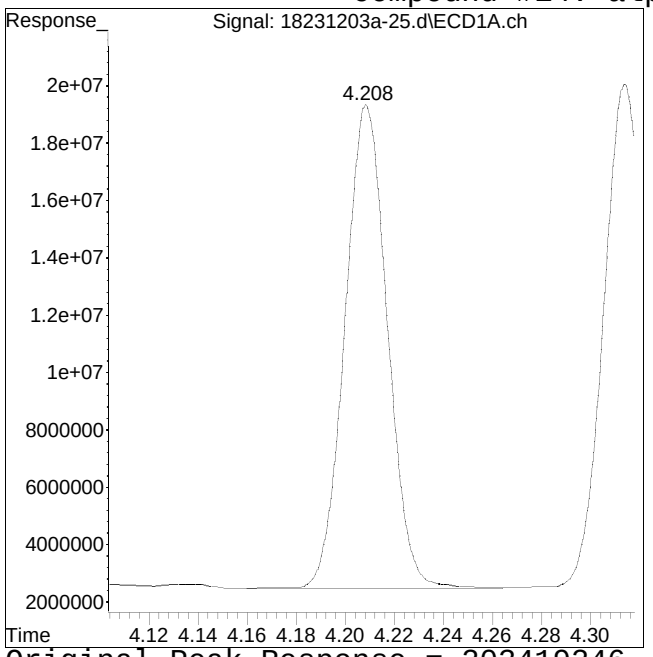


Original Peak Response = 217873197 Manual Peak Response = 213492263 M4
M4 = Poor automated baseline construction.

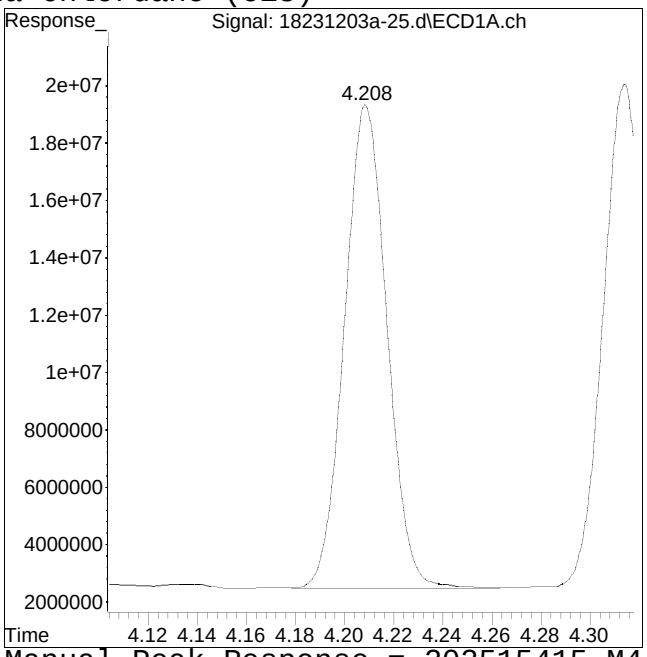
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #14: alpha-Chlordane (cis)



Original Peak Response = 203419246



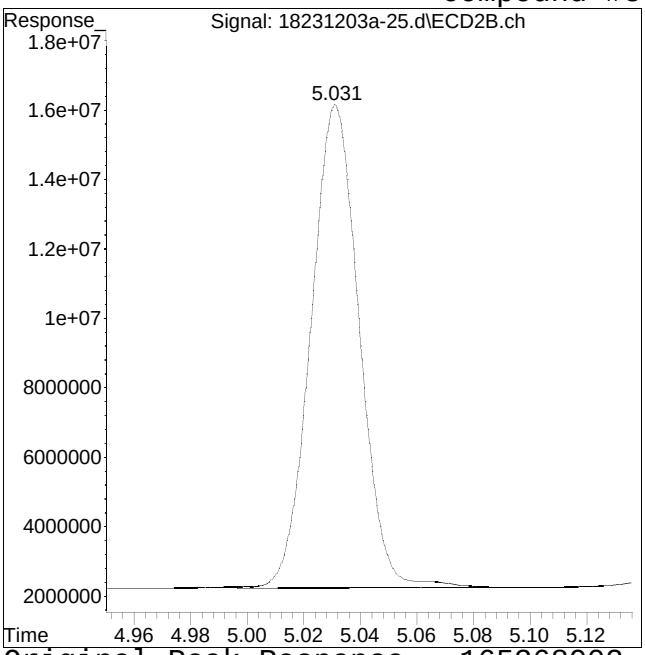
Manual Peak Response = 202515415 M4

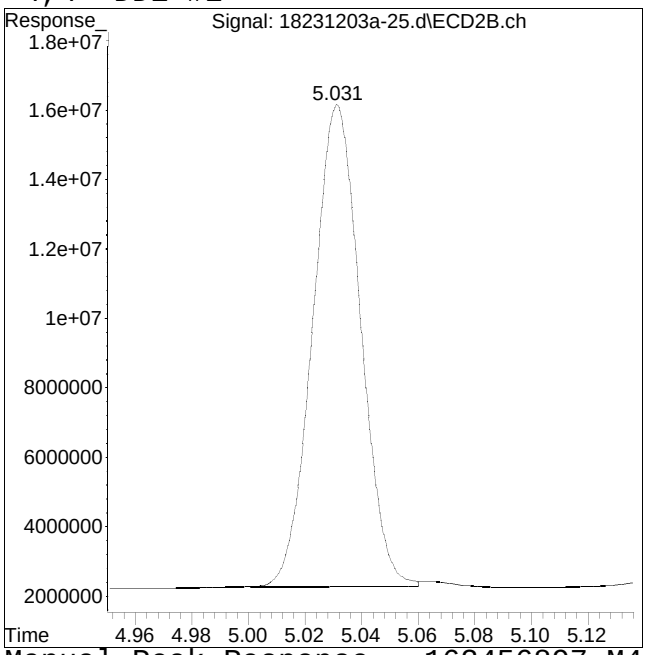
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #53: 4,4'-DDE #2



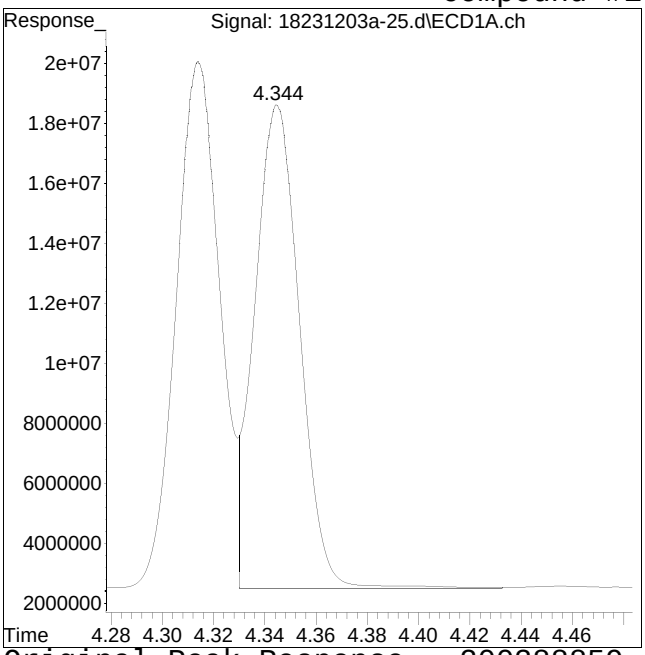


Original Peak Response = 165368902 Manual Peak Response = 162456897 M4
M4 = Poor automated baseline construction.

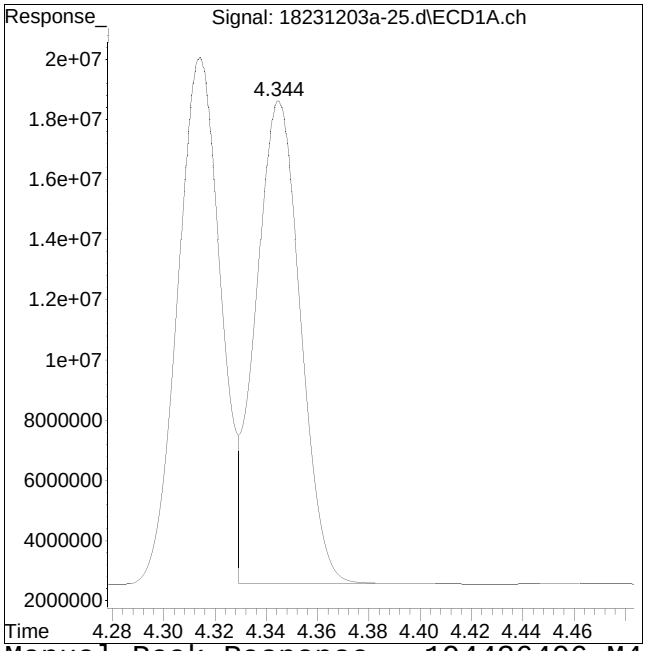
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #16: Endosulfan I



Original Peak Response = 200388859



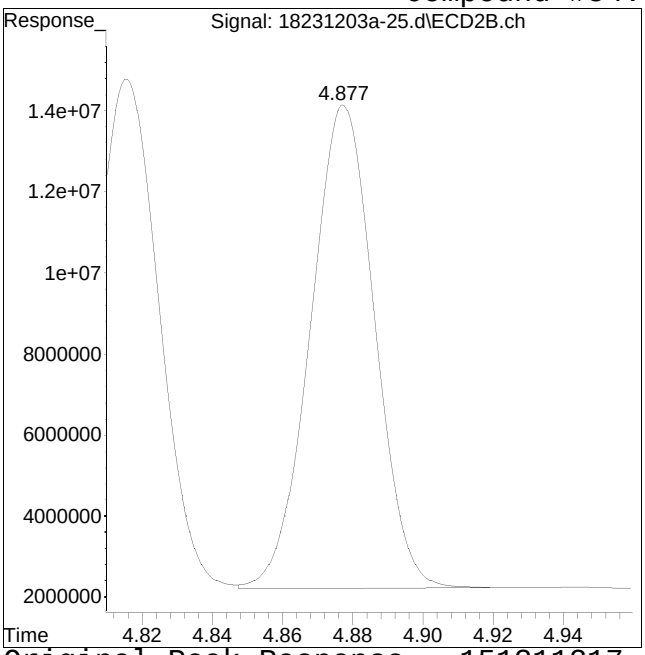
Manual Peak Response = 194436406 M4

M4 = Poor automated baseline construction.

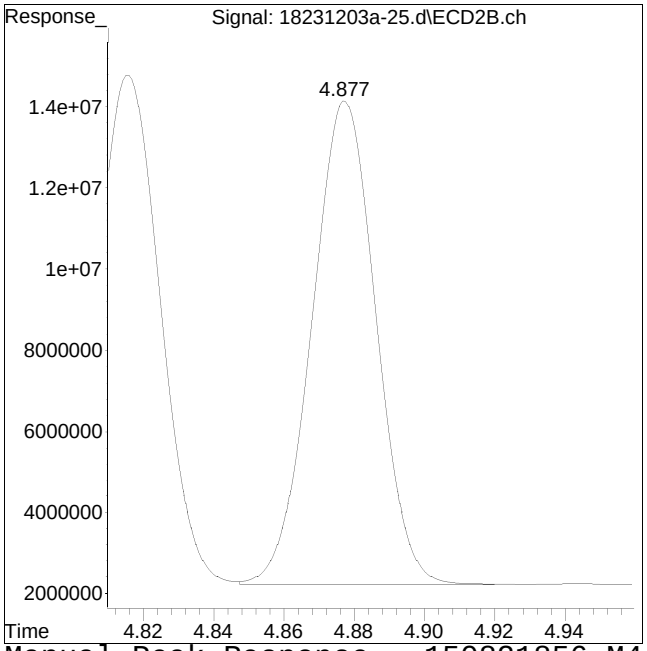
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #54: Endosulfan I #2



Original Peak Response = 151311217

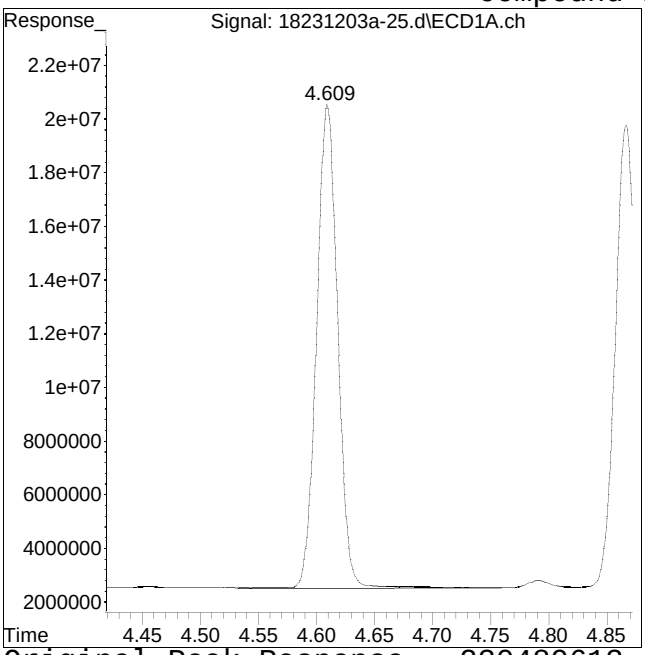


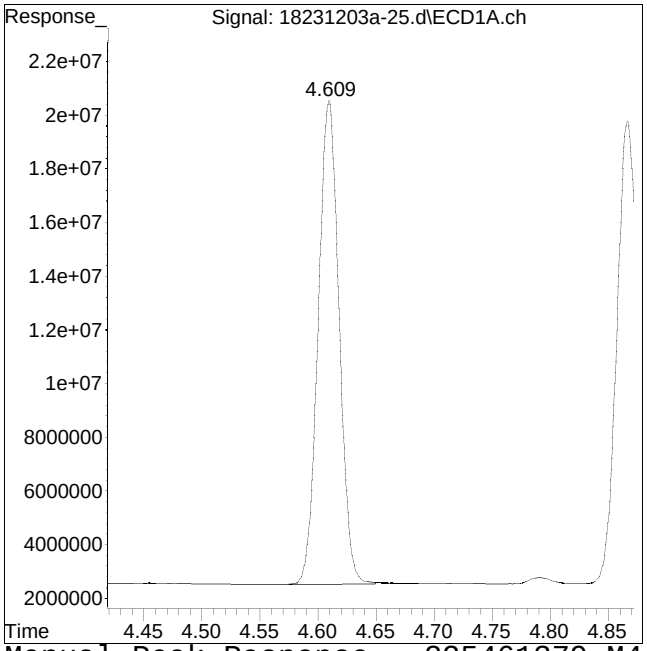
Manual Peak Response = 150821856 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #17: Dieldrin



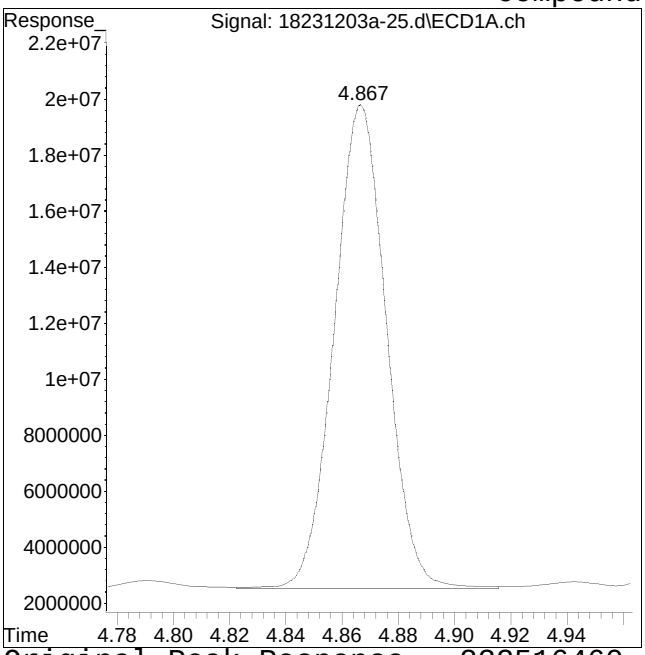


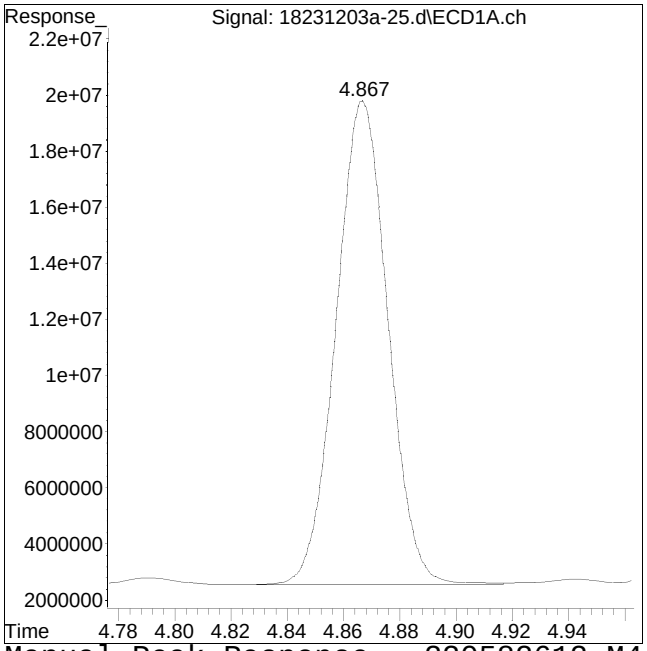
Original Peak Response = 230489613 Manual Peak Response = 225461379 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #18: Endrin



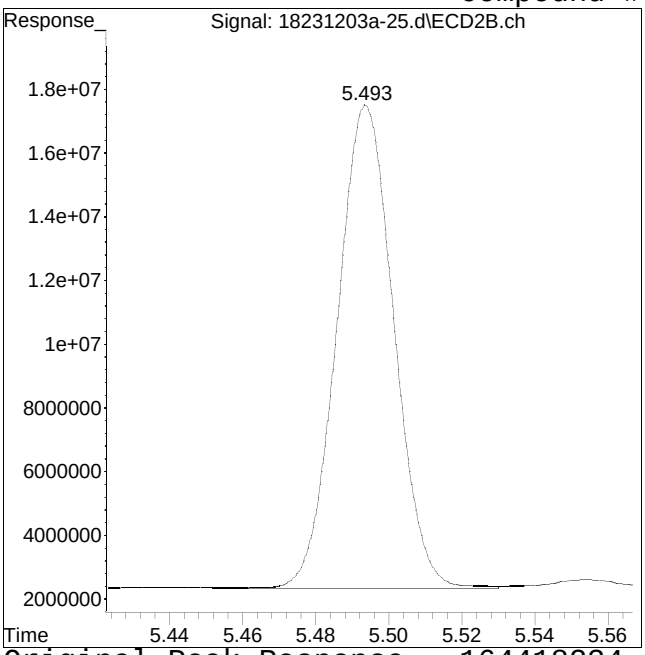


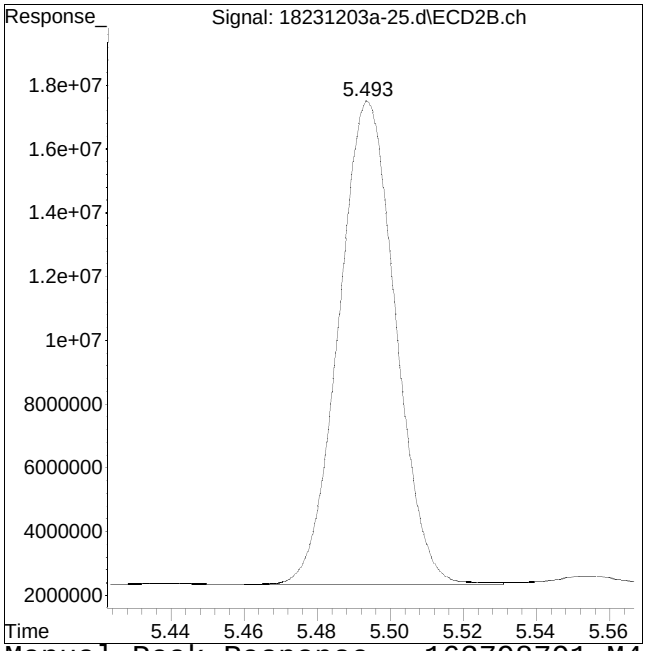
Original Peak Response = 222516460 Manual Peak Response = 220582612 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #56: Endrin #2



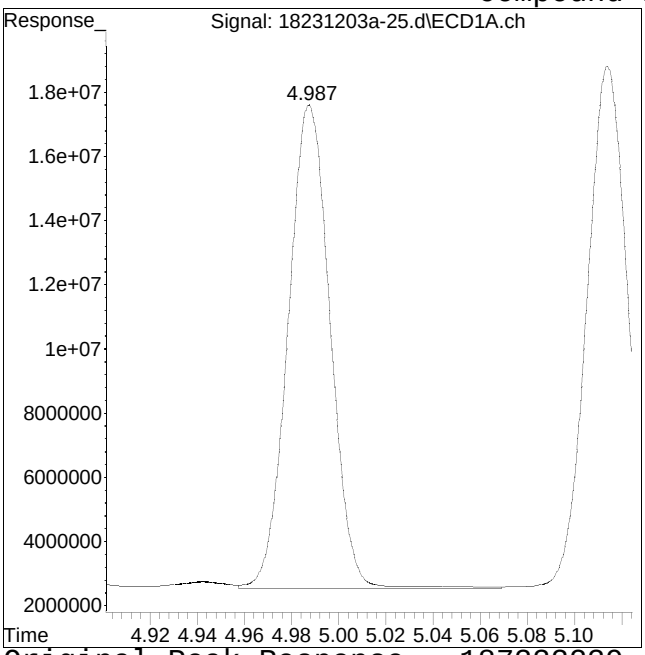


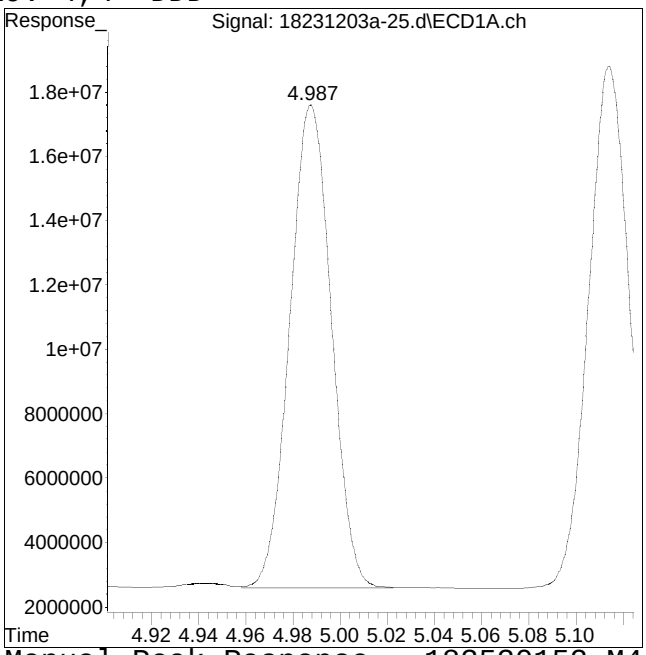
Original Peak Response = 164418234 Manual Peak Response = 163798791 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #19: 4,4'-DDD



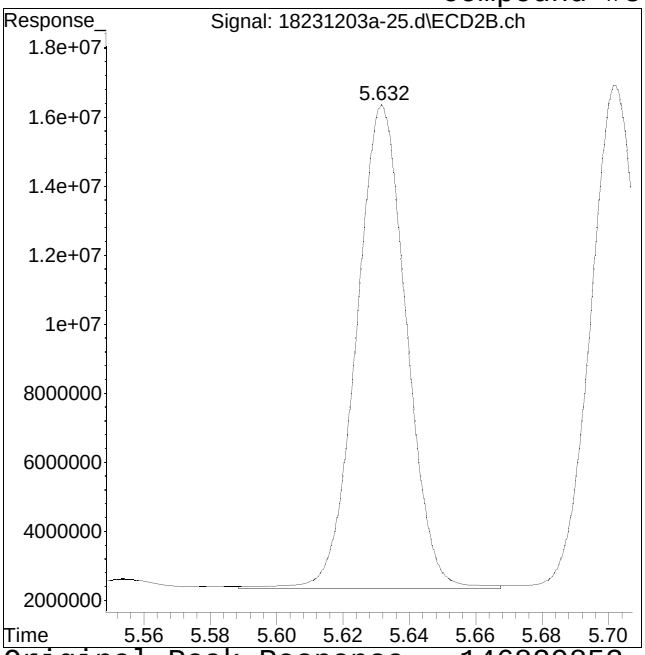


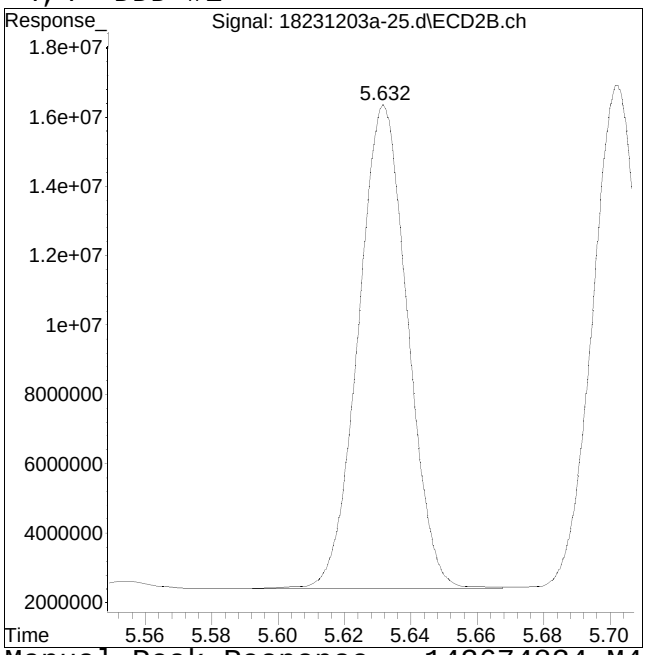
Original Peak Response = 187332239 Manual Peak Response = 183530152 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #57: 4,4'-DDD #2



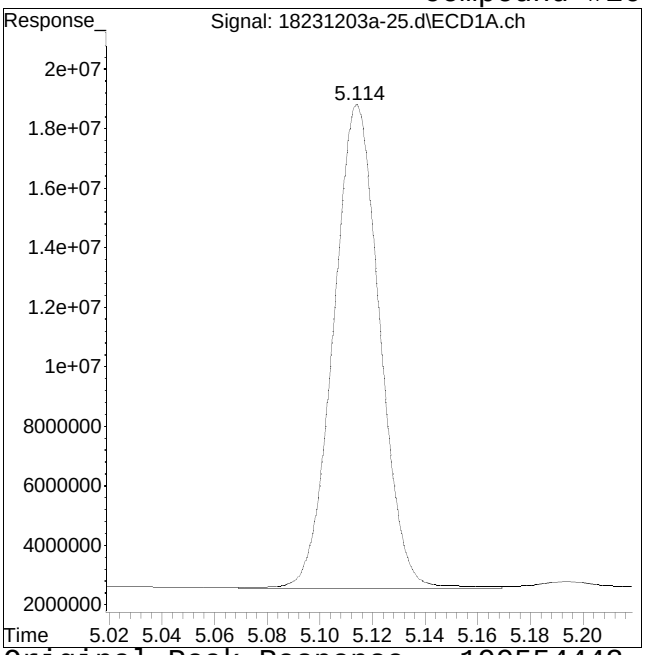


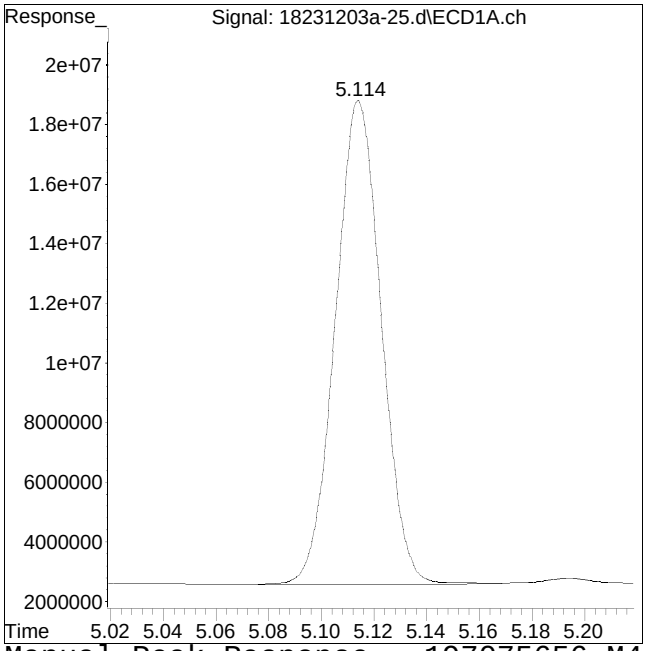
Original Peak Response = 146829853 Manual Peak Response = 143674834 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #20: Endosulfan II



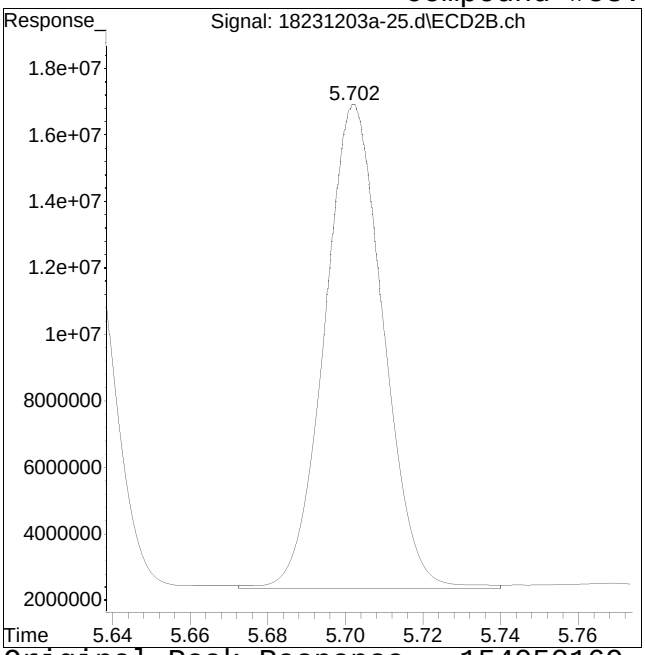


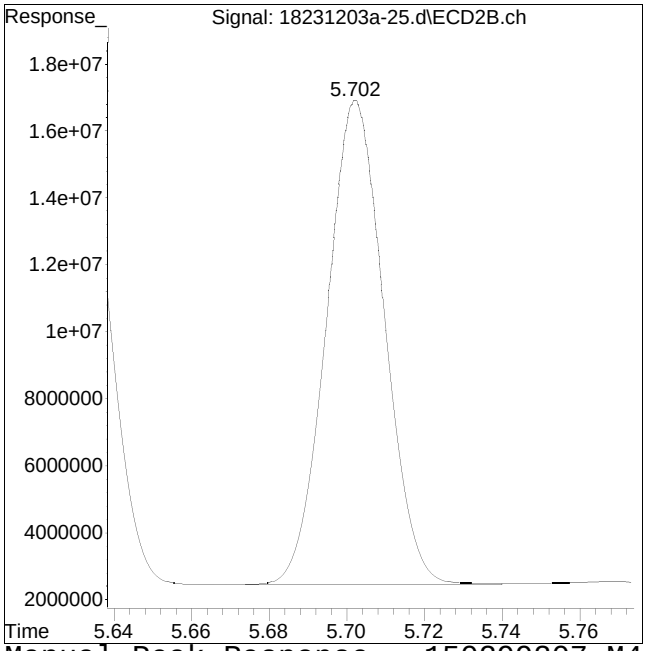
Original Peak Response = 199554442 Manual Peak Response = 197075656 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #58: Endosulfan II #2



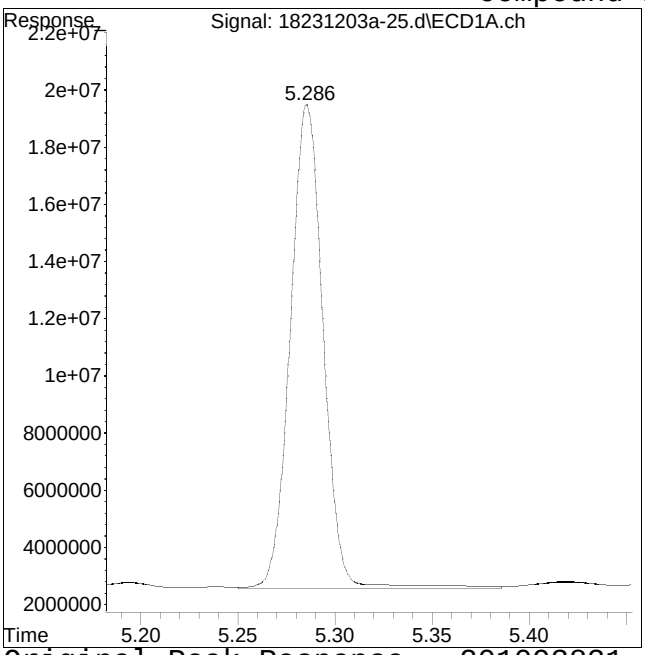


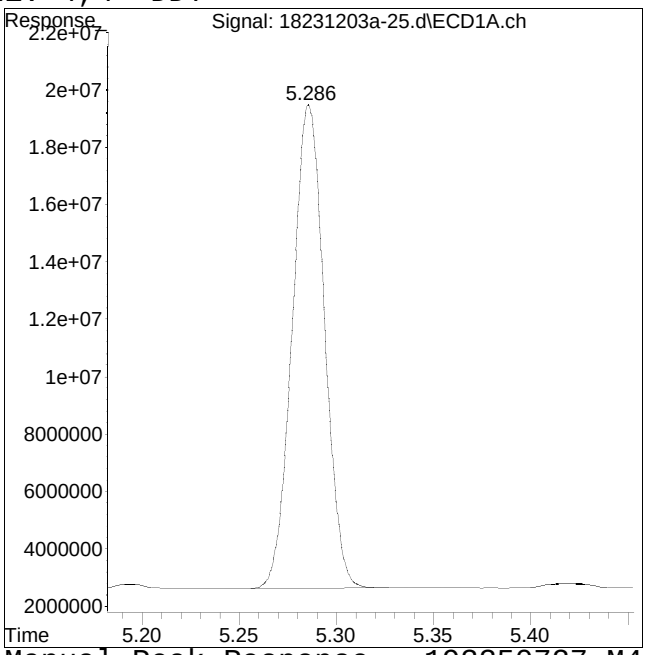
Original Peak Response = 154050169 Manual Peak Response = 150299207 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #21: 4,4'-DDT



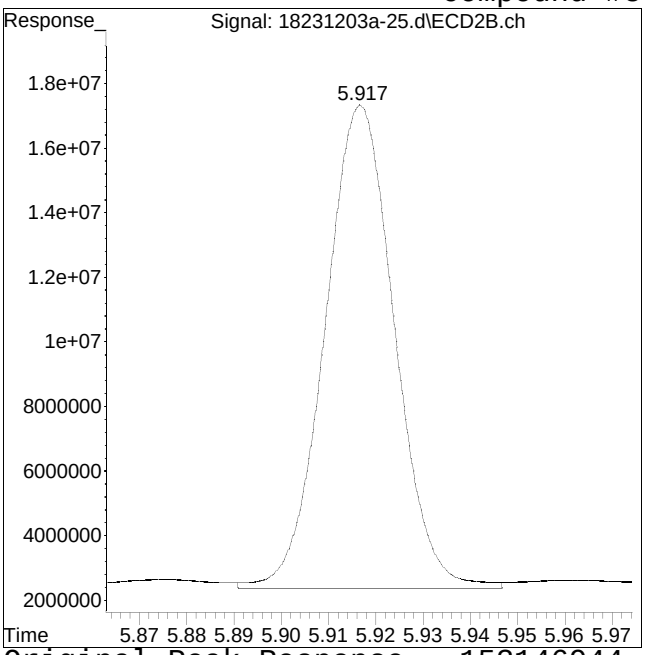


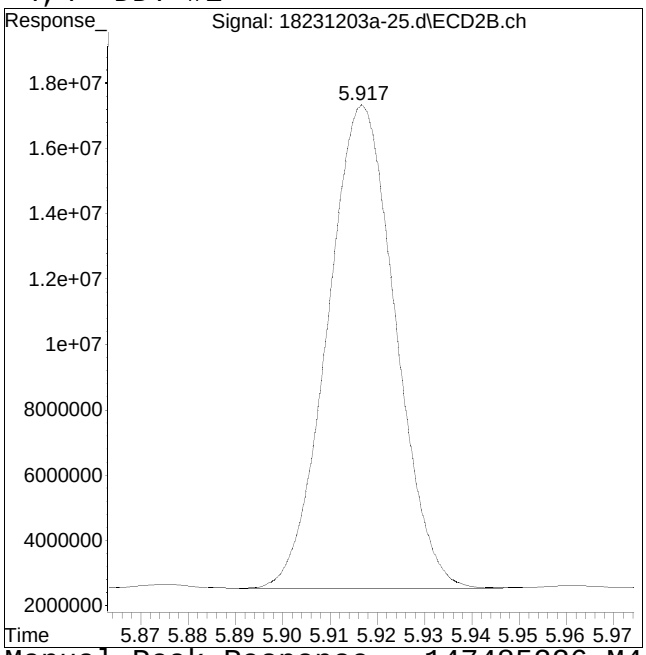
Original Peak Response = 201093831 Manual Peak Response = 193350727 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #59: 4,4'-DDT #2



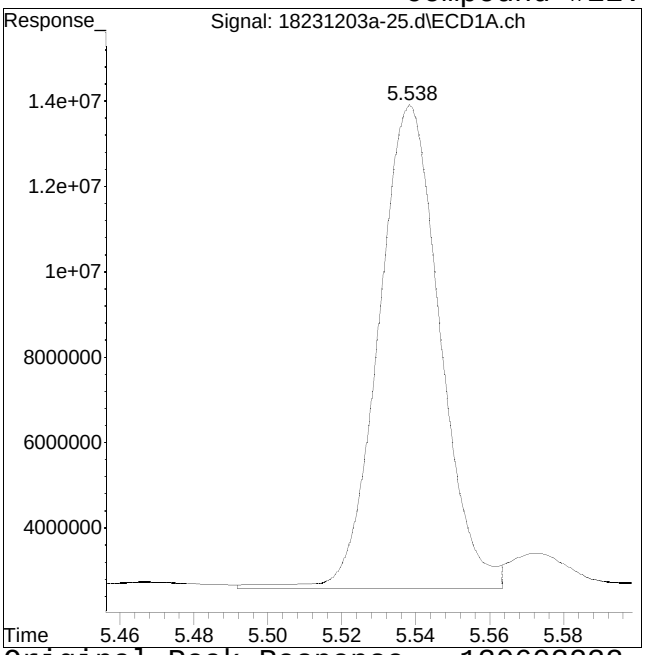


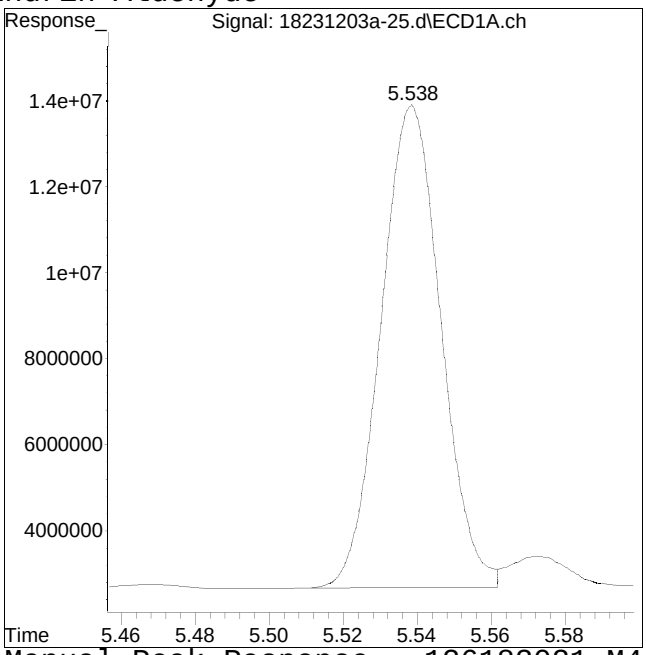
Original Peak Response = 153146944 Manual Peak Response = 147485226 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #22: Endrin Aldehyde



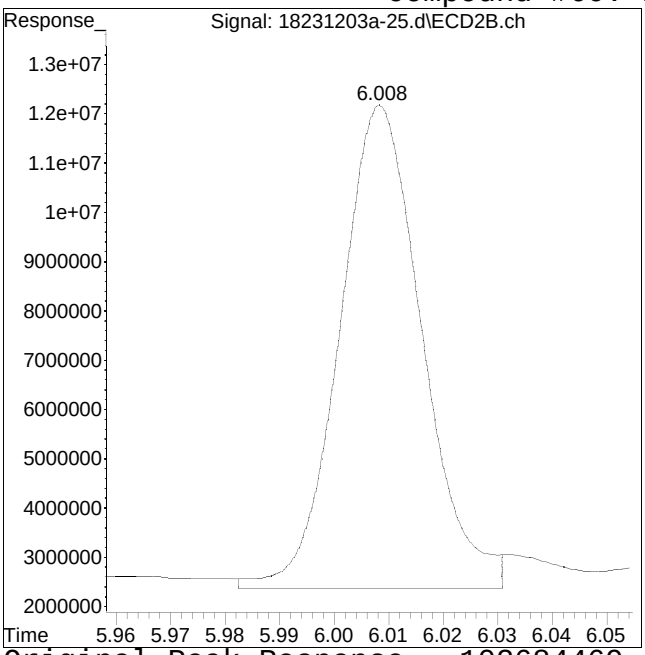


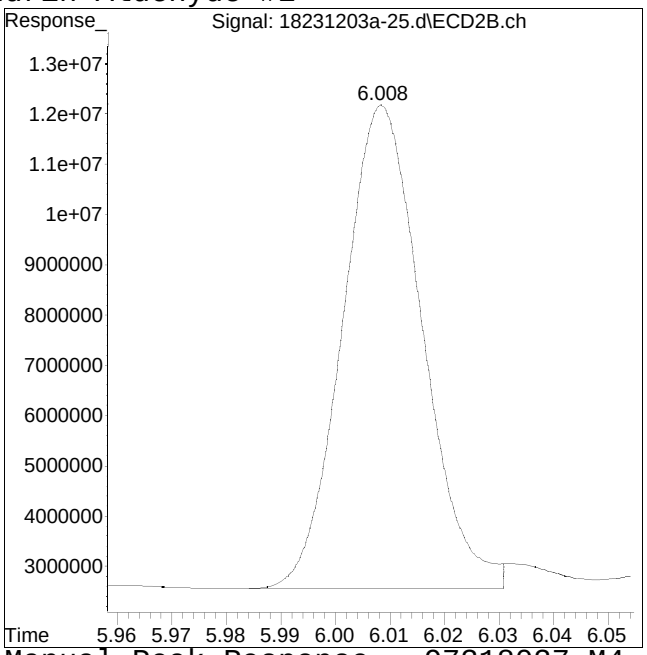
Original Peak Response = 130603232 Manual Peak Response = 126183021 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #60: Endrin Aldehyde #2



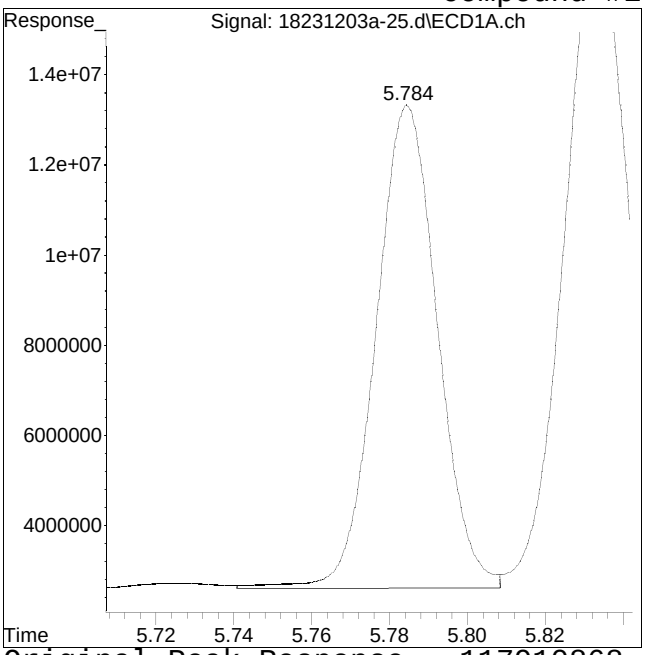


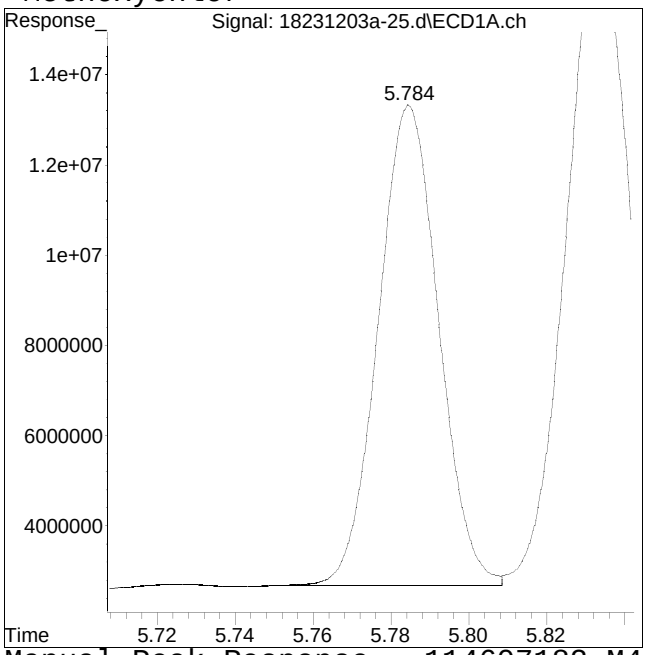
Original Peak Response = 102684469 Manual Peak Response = 97318037 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #23: Methoxychlor



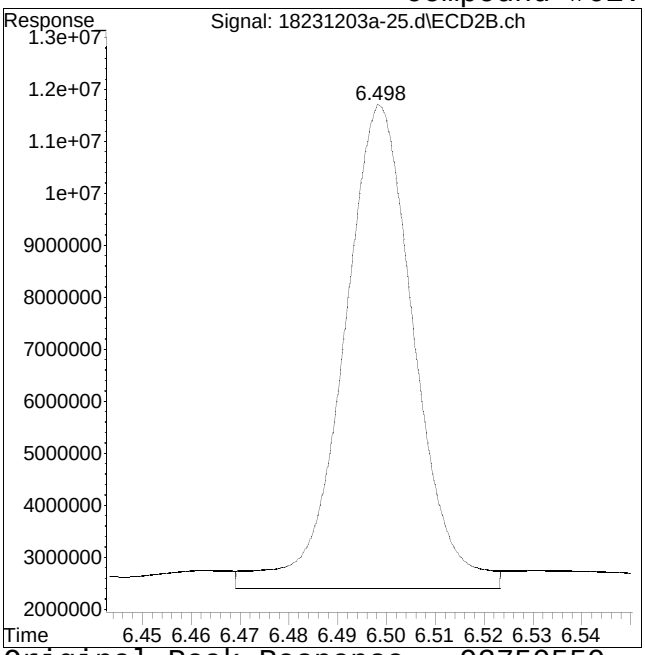


Original Peak Response = 117910868 Manual Peak Response = 114607182 M4
M4 = Poor automated baseline construction.

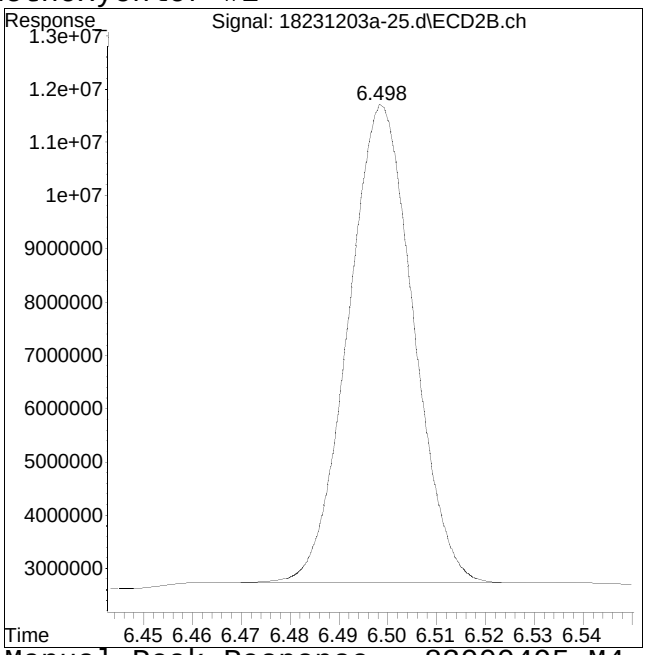
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #61: Methoxychlor #2



Original Peak Response = 93750550



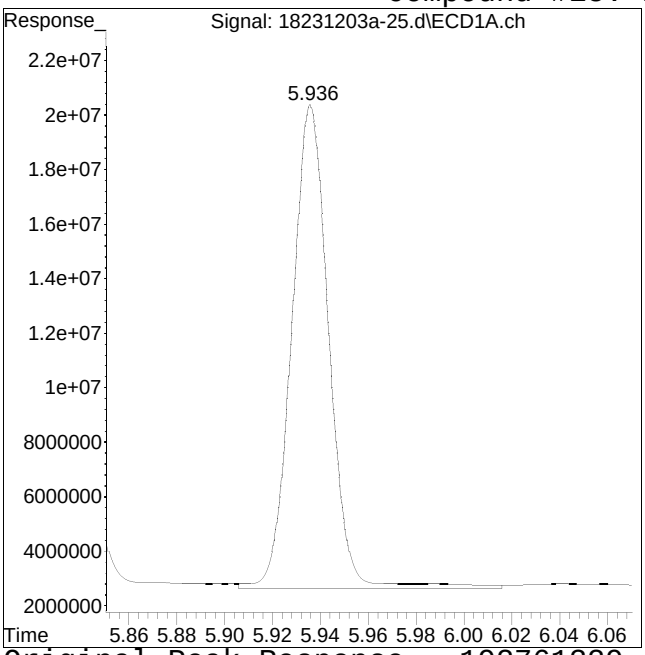
Manual Peak Response = 83000495 M4

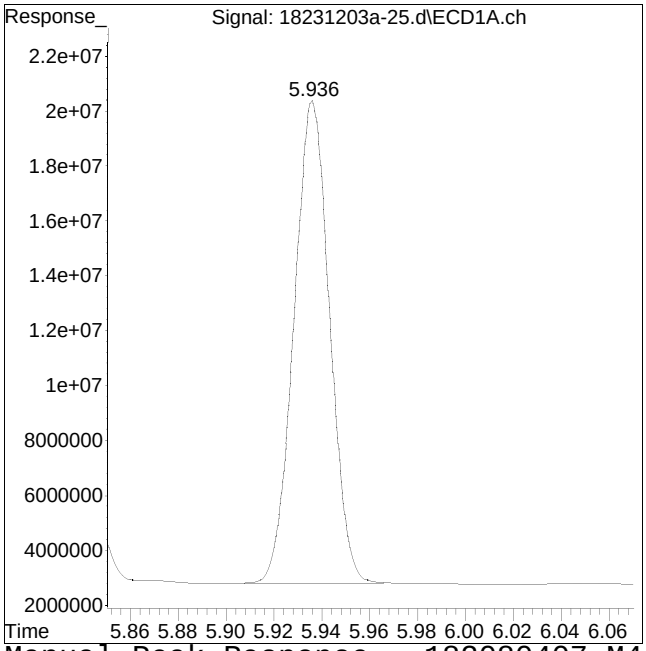
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #25: Endosulfan Sulfate



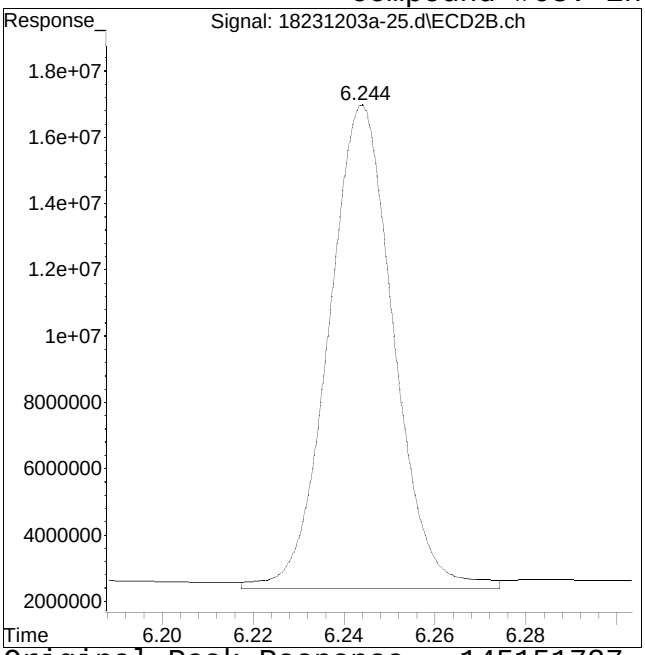


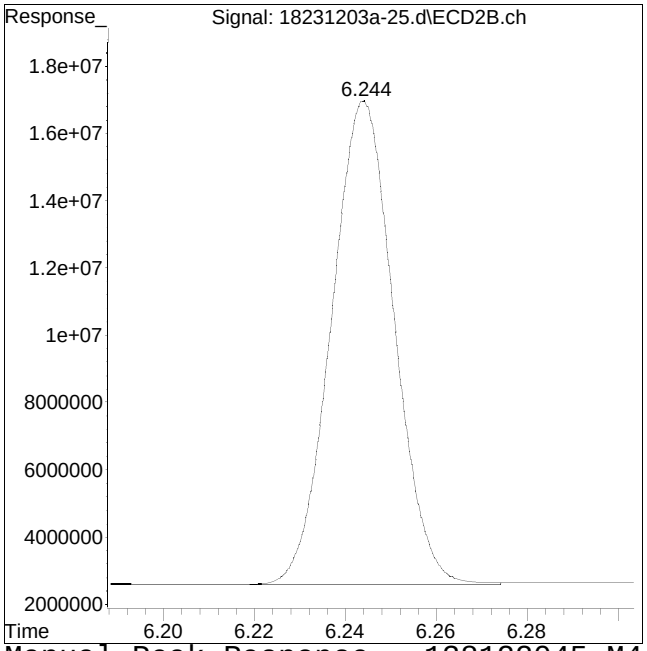
Original Peak Response = 192761329 Manual Peak Response = 182080407 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #63: Endosulfan Sulfate #2



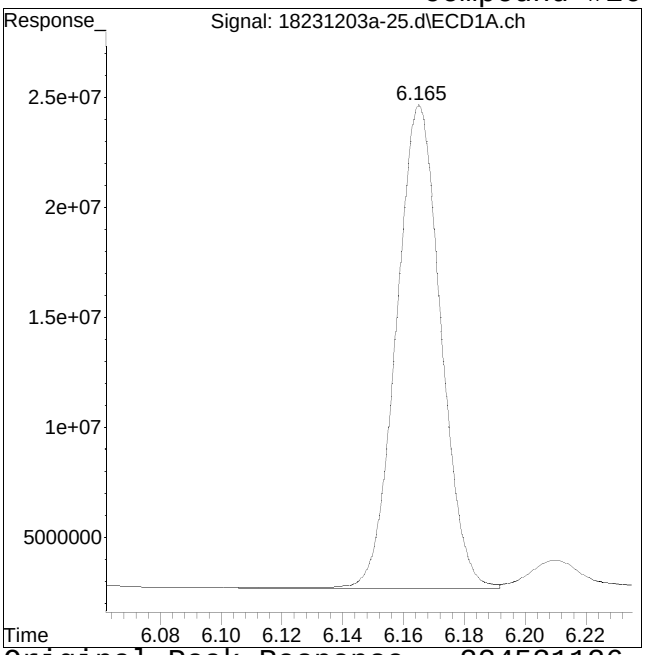


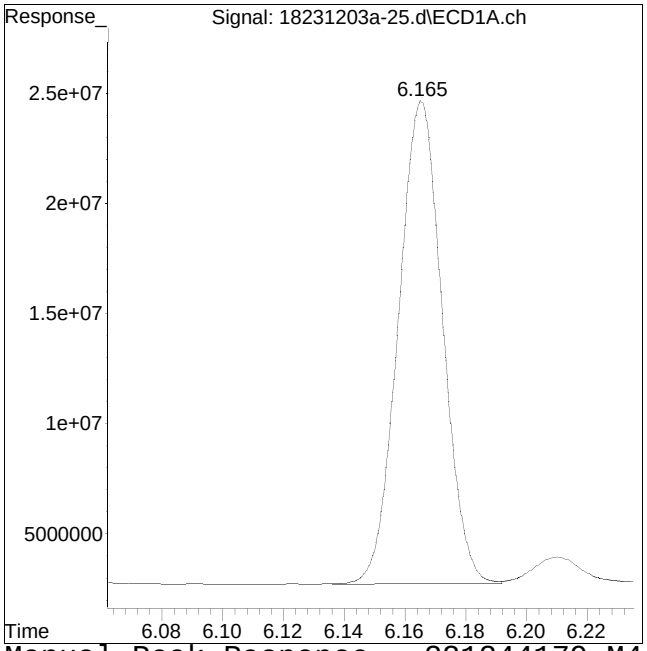
Original Peak Response = 145151727 Manual Peak Response = 138122045 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #26: Endrin Ketone



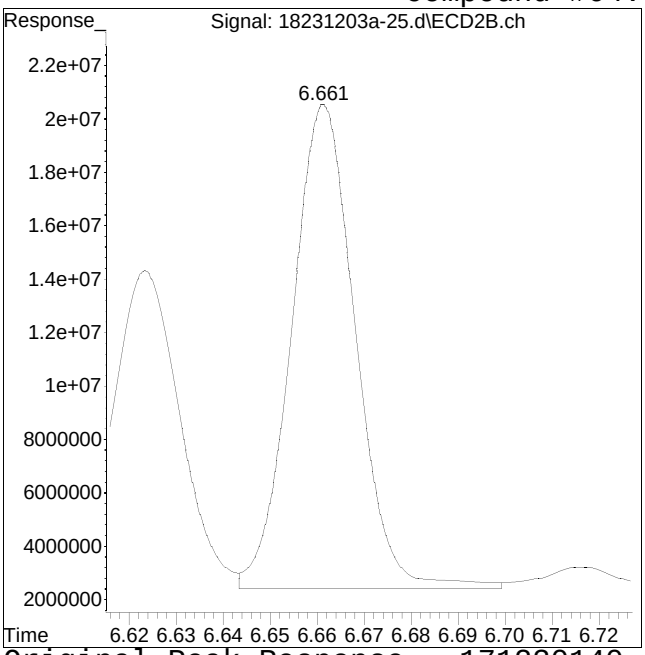


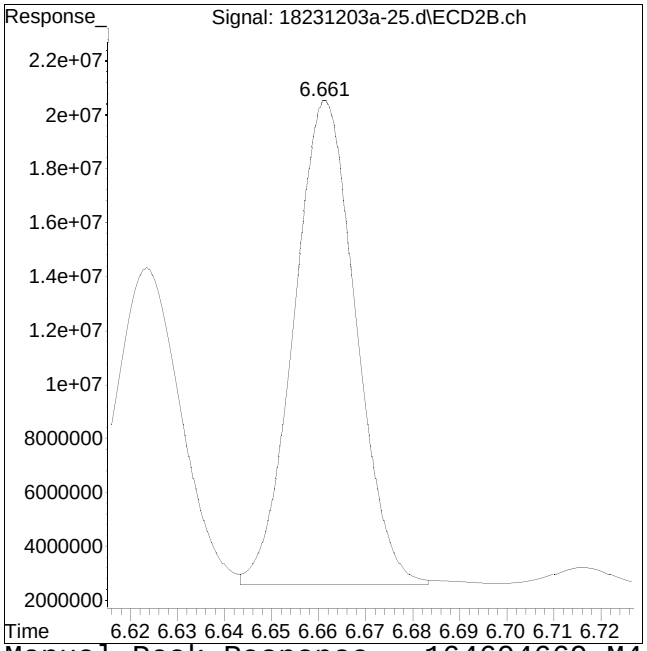
Original Peak Response = 224531126 Manual Peak Response = 221244179 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-25.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:23 pm Instrument : Pest 18
Sample : WG1859016-2,42,, Quant Date : 12/3/2023 1:44 pm

Compound #64: Endrin Ketone #2





Original Peak Response = 171230140 Manual Peak Response = 164604669 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231203a\
Data File : 18231203a-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 1:34 pm
Operator : PEST18:mmg
Sample : WG1859016-3,42,,
Misc : wg1859122,wg1859016,ical20463
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 11:29:16 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:53 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231203A\18231203a-03.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.748	1.795	112.3E6	77425099	25.000M4	25.000M4
	Standard Area 1 : #1 = 122965531				Recovery = 91.31%		
	Standard Area 1 : #2 = 86667328				Recovery = 89.34%		
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.182	2.348	199.6E6	141.0E6	42.761M4	43.094
	Spiked Amount 50.000	Range 30 - 150		Recovery = 85.52%		86.19%	
27) s	Decachlorobi	6.979	7.547	124.2E6	119.4E6	27.644	38.874
	Spiked Amount 50.000	Range 30 - 150		Recovery = 55.29%		77.75%	
Target Compounds							
4)	alpha-BHC	2.539	2.793	266.0E6	188.3E6	45.017	45.040
5)	gamma-BHC (l	2.759	3.086	239.9E6	175.4E6	43.953M4	44.841
6)	beta-BHC	2.826	3.159	122.6E6	81968409	49.443	46.303
7)	delta-BHC	2.961	3.428	234.4E6	165.0E6	41.955	41.907
8)	Heptachlor	3.129	3.485	230.7E6	165.8E6	42.988	43.002
9)	Aldrin	3.380	3.803	207.6E6	156.6E6	40.484M4	42.741
12)	Heptachlor E	3.944	4.420	208.5E6	152.9E6	41.594	42.228
13)	gamma-Chlord	4.072	4.641	208.5E6	156.8E6	41.159	47.475
14)	alpha-Chlord	4.209	4.816	196.4E6	154.8E6	36.639M4	41.367
15)	4,4'-DDE	4.314	5.031	198.9E6	158.8E6	39.381	43.803
16)	Endosulfan I	4.345	4.877	189.6E6	144.7E6	39.856	42.527
17)	Dieldrin	4.609	5.185	217.6E6	164.6E6	44.471M4	47.503
18)	Endrin	4.867	5.494	212.7E6	156.4E6	41.049	44.737
19)	4,4'-DDD	4.987	5.632	178.7E6	139.7E6	44.056M4	47.942
20)	Endosulfan I	5.114	5.702	190.5E6	145.1E6	41.678M4	45.102
21)	4,4'-DDT	5.286	5.917	188.5E6	146.1E6	47.240M4	57.415
22)	Endrin Aldeh	5.538	6.008	130.9E6	100.3E6	35.164M4	38.425M3
23)	Methoxychlor	5.784	6.498	112.2E6	86636242	60.598M4	60.528M4

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest18\2023\231203a\
Data File : 18231203a-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 3 Dec 2023 1:34 pm
Operator : PEST18:mmg
Sample : WG1859016-3,42,,
Misc : wg1859122,wg1859016,ical20463
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 11:29:16 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title : pest
QLast Update : Sun Dec 03 12:19:53 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest18\2023\231203A\18231203a-03.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
25) Endosulfan S	5.936	6.244	176.9E6	134.2E6	41.471M4	43.701
26) Endrin Keton	6.165	6.662	216.4E6	162.4E6	51.506M4	53.770M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

```
Sub List     : LCS_MS - spk only8\2023\231203A\18231203a-03.d••

Data Path : I:\PEST\Pest18\2023\231203a\
Data File : 18231203a-26.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  3 Dec 2023   1:34 pm
Operator  : PEST18:mmg
Sample    : WG1859016-3,42,,
Misc      : wg1859122,wg1859016,ical20463
ALS Vial  : 26   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 11:29:16 2023
Quant Method : I:\PEST\Pest18\2023\231203A\pest18_2023_10_17_ugL_ICAL20463.m
Quant Title  : pest
QLast Update : Sun Dec 03 12:19:53 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
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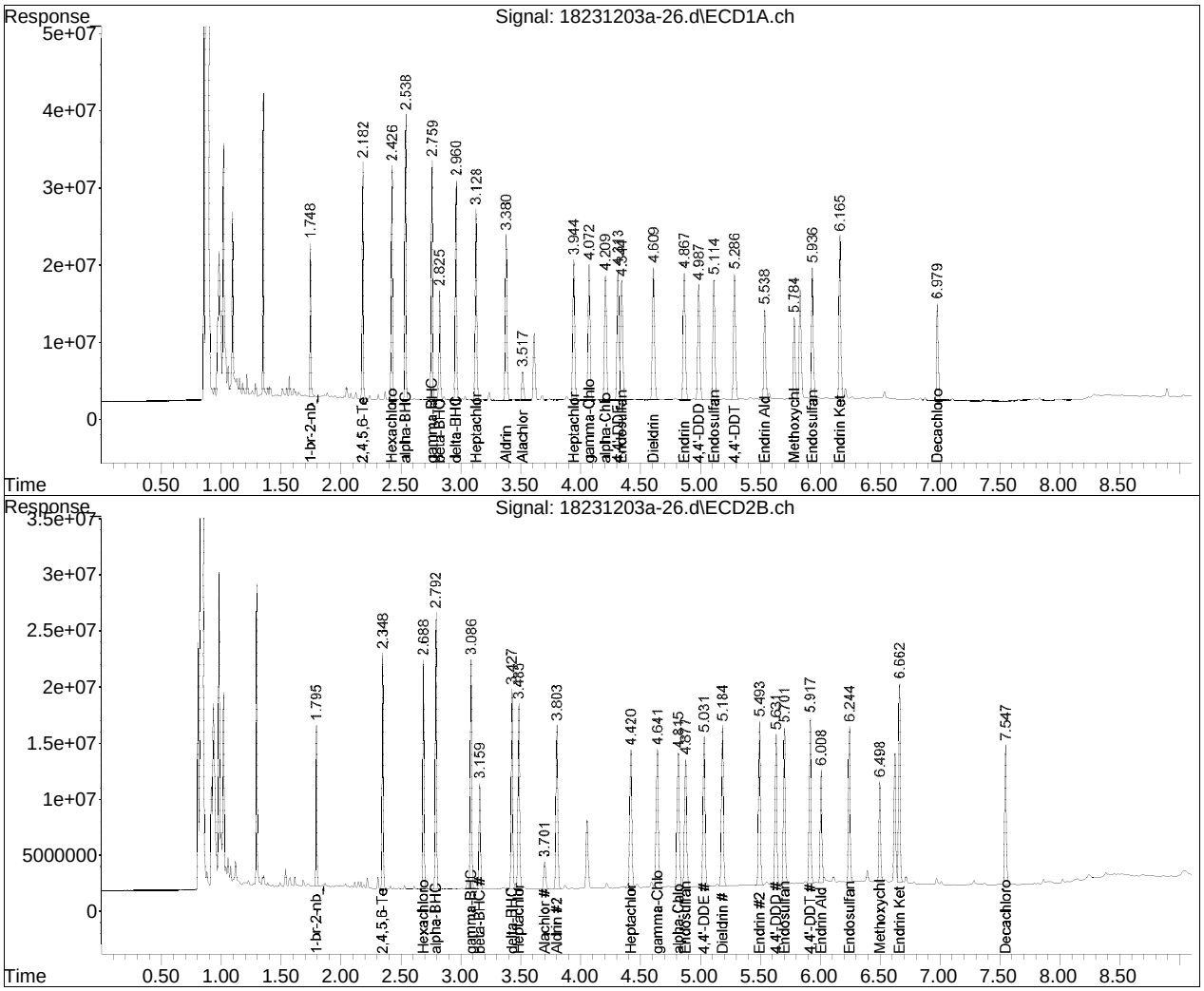
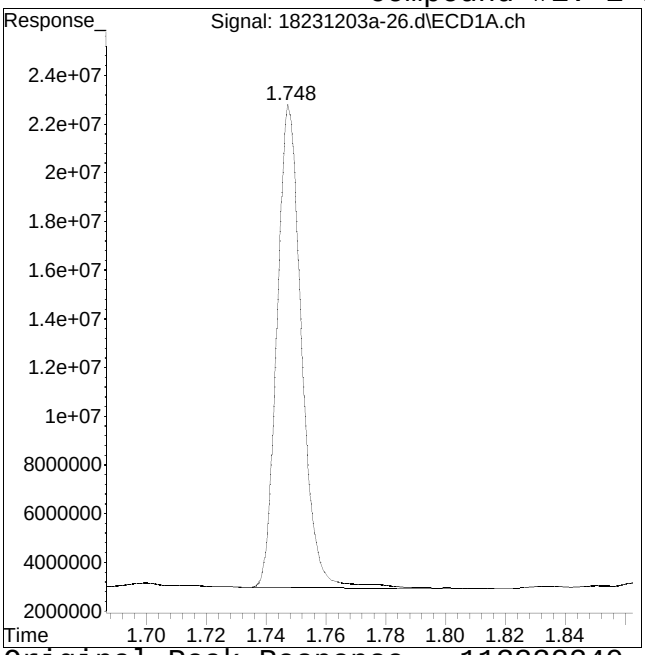


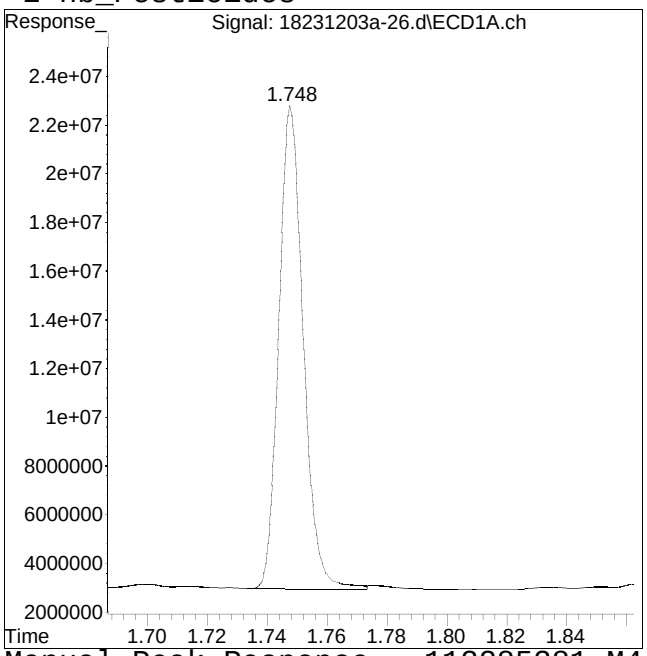
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 113332340



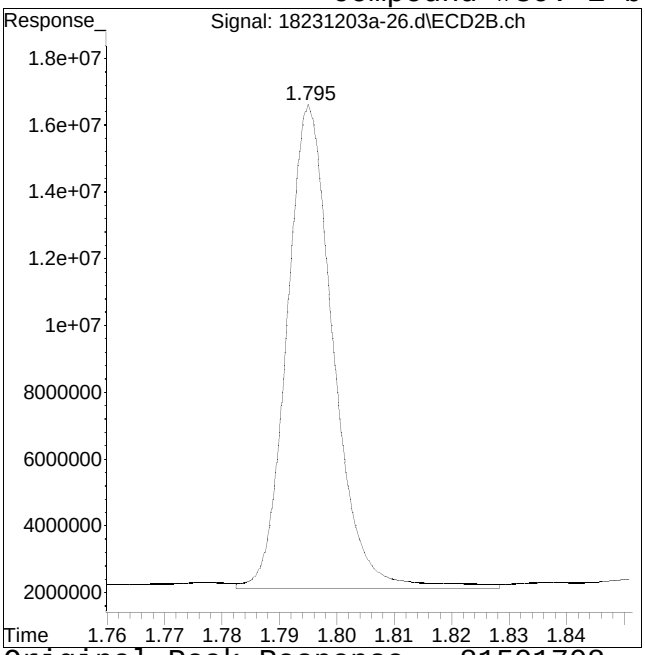
Manual Peak Response = 112285381 M4

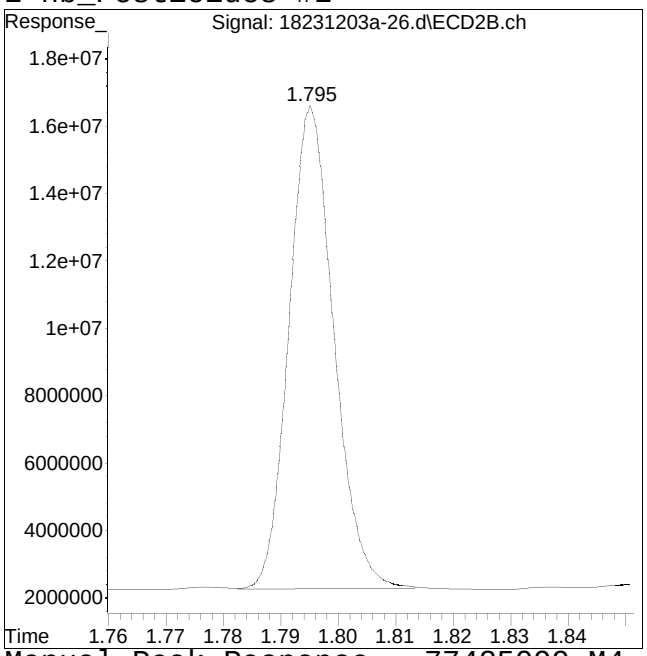
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #39: 1-br-2-nb_Pesticides #2



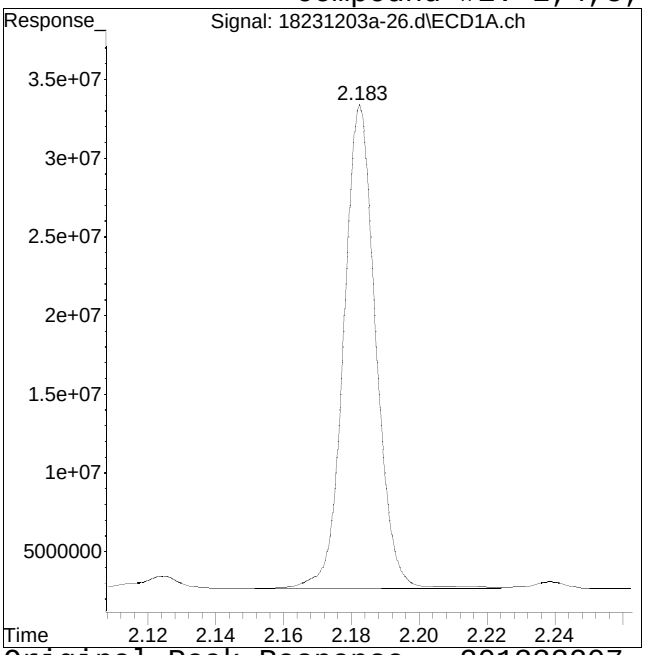


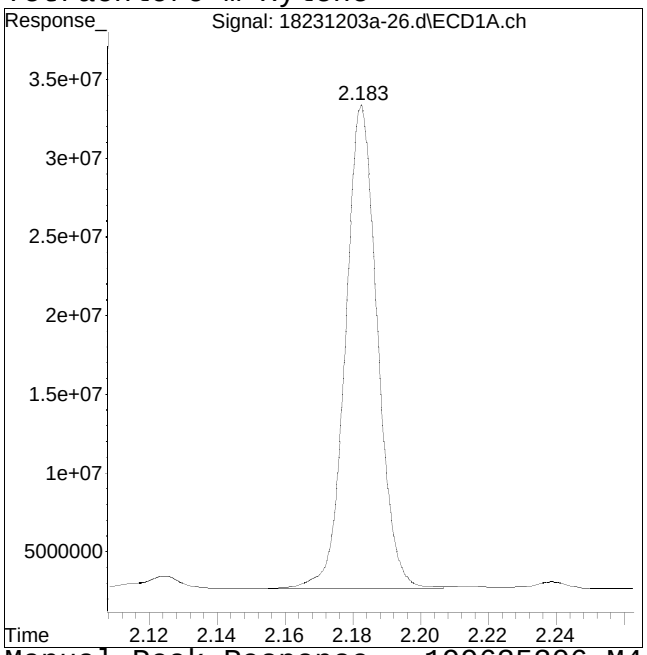
Original Peak Response = 81501708 Manual Peak Response = 77425099 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



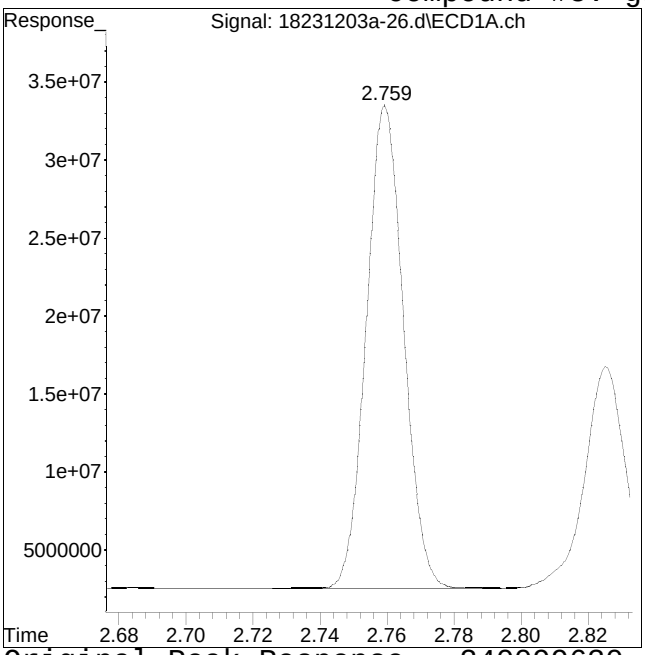


Original Peak Response = 201333207 Manual Peak Response = 199635306 M4
M4 = Poor automated baseline construction.

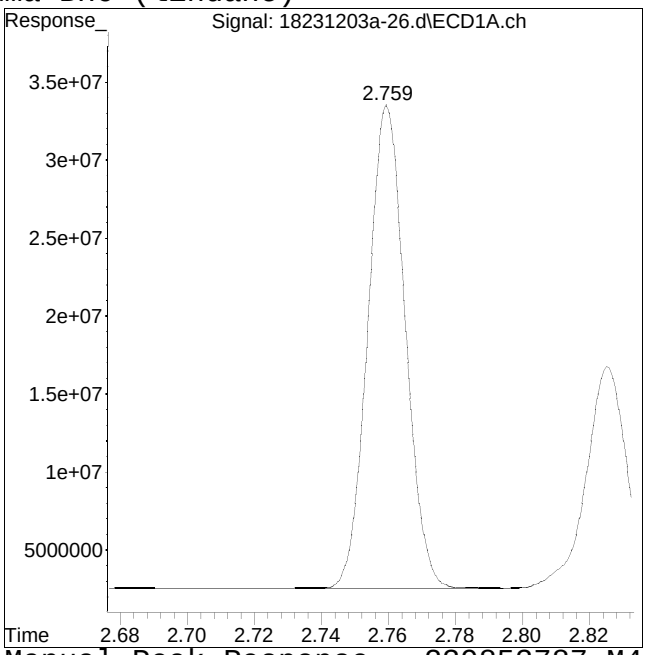
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #5: gamma-BHC (lindane)



Original Peak Response = 240099630



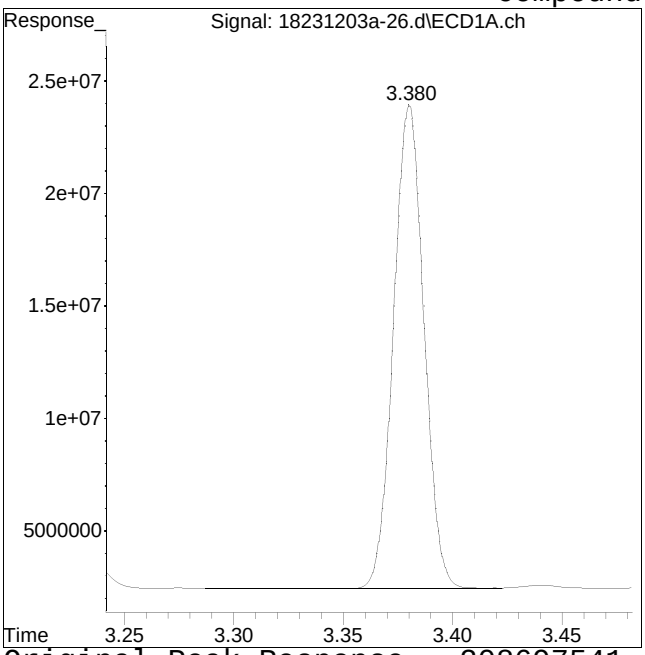
Manual Peak Response = 239853787 M4

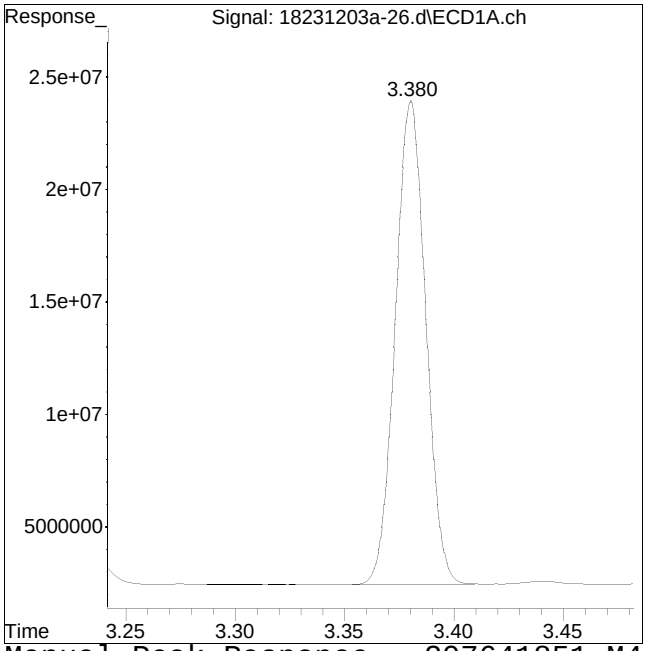
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #9: Aldrin



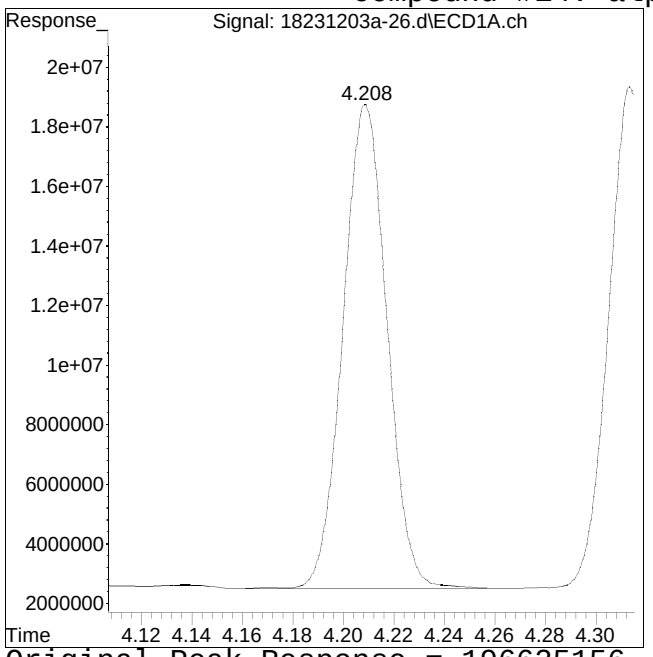


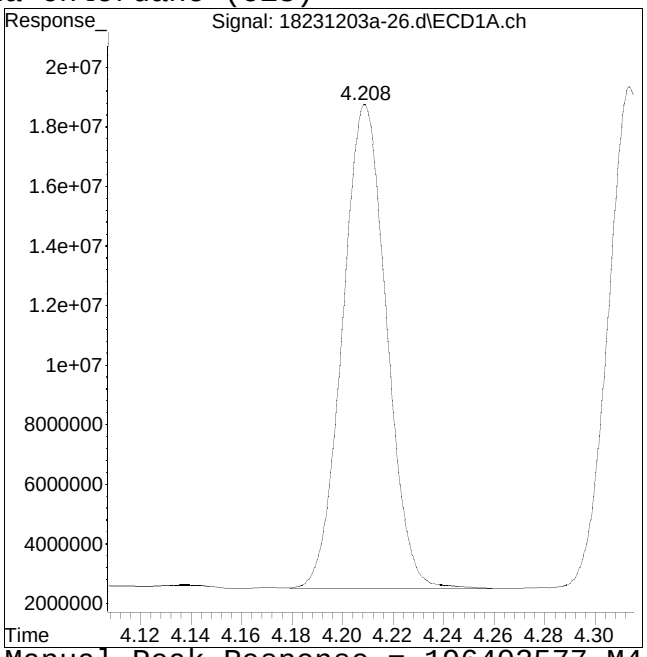
Original Peak Response = 208697541 Manual Peak Response = 207641851 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #14: alpha-Chlordane (cis)



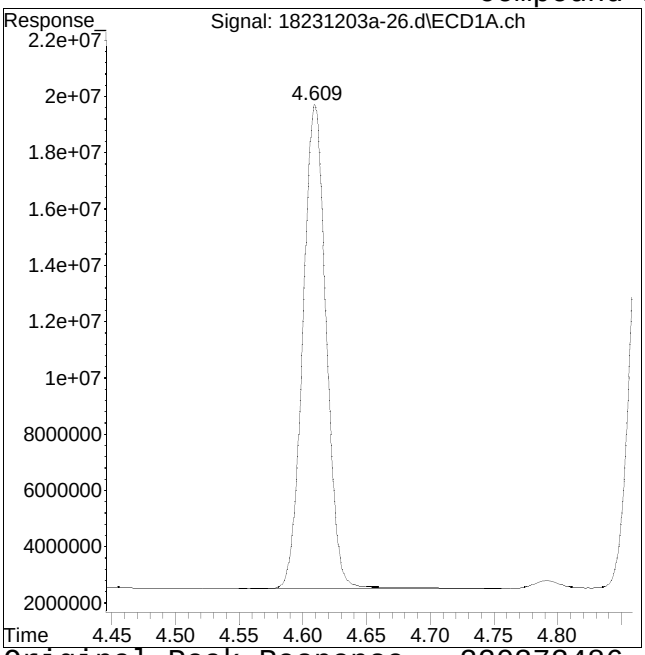


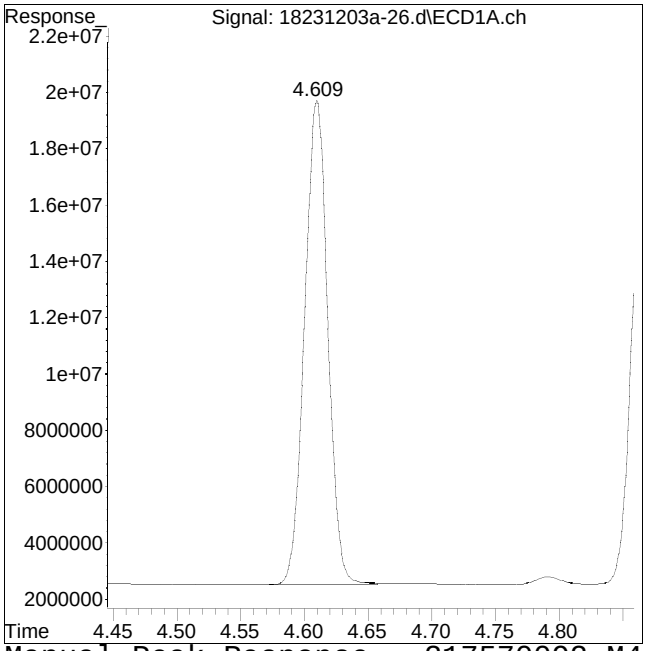
Original Peak Response = 196625156 Manual Peak Response = 196403577 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #17: Dieldrin



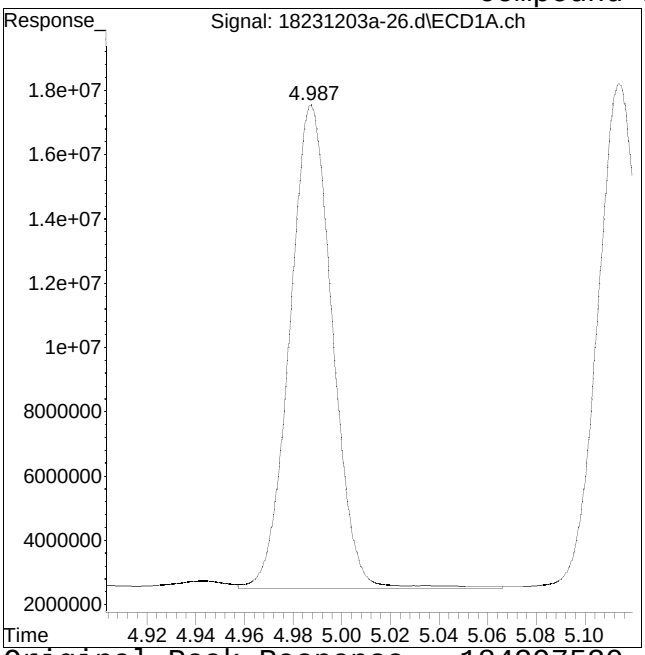


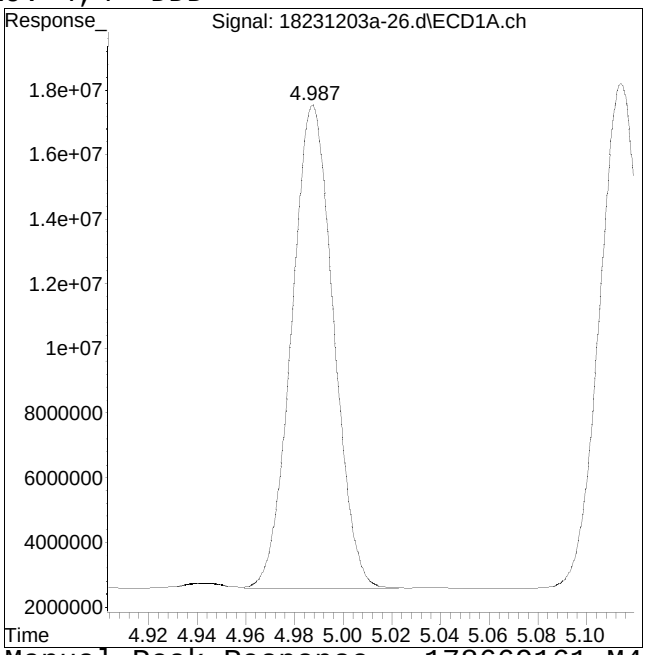
Original Peak Response = 220372486 Manual Peak Response = 217570092 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #19: 4,4'-DDD



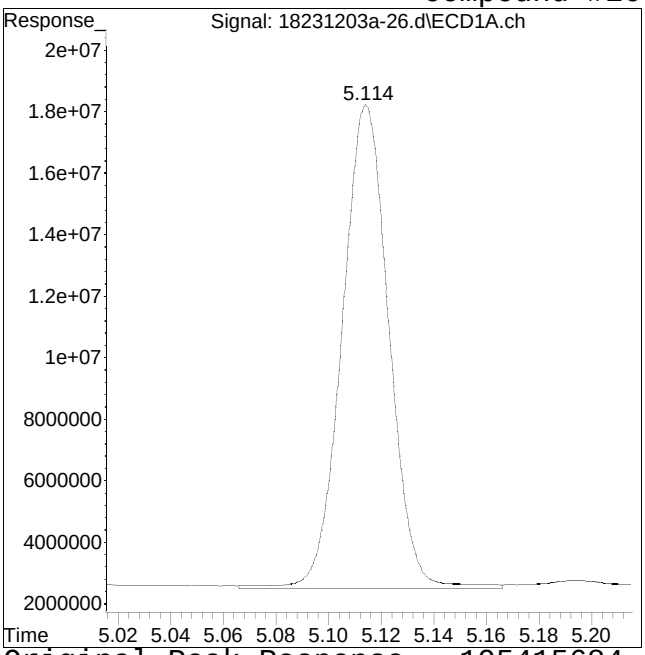


Original Peak Response = 184397530 Manual Peak Response = 178669161 M4
M4 = Poor automated baseline construction.

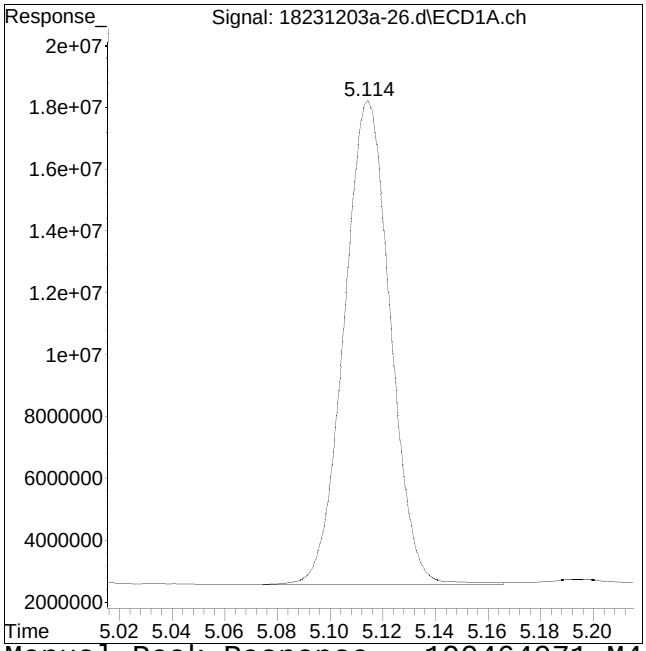
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #20: Endosulfan II



Original Peak Response = 195415684



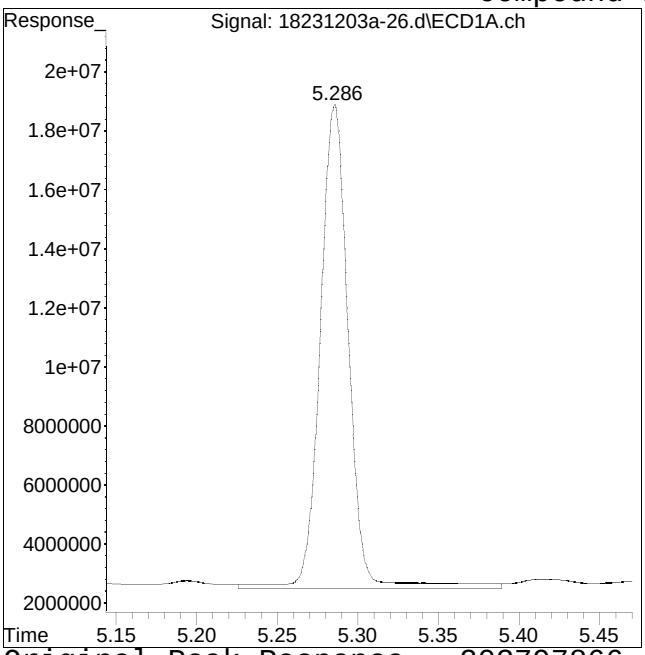
Manual Peak Response = 190464071 M4

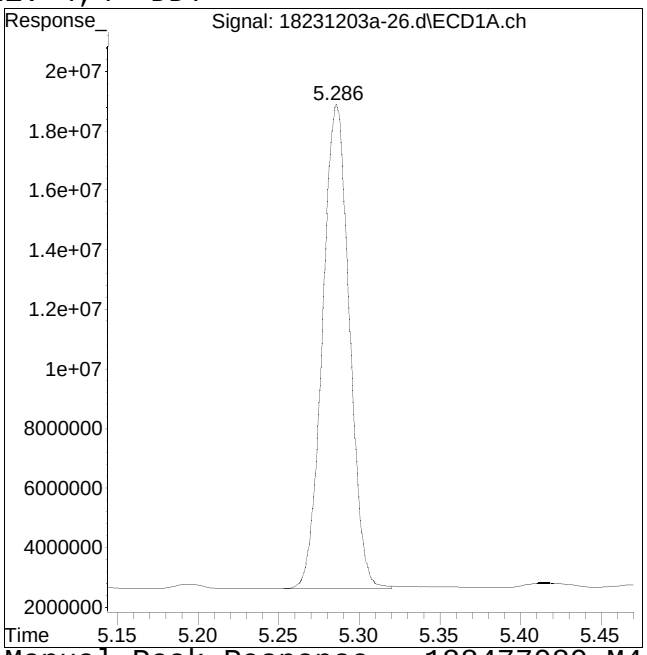
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #21: 4,4'-DDT



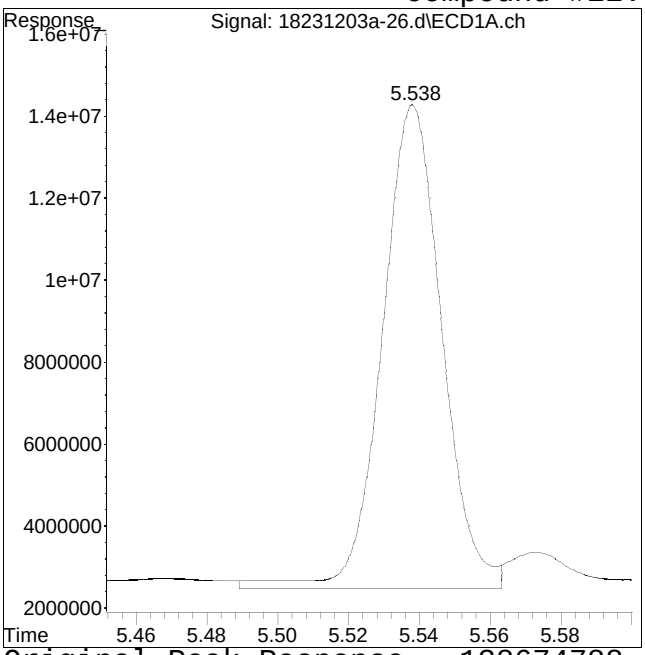


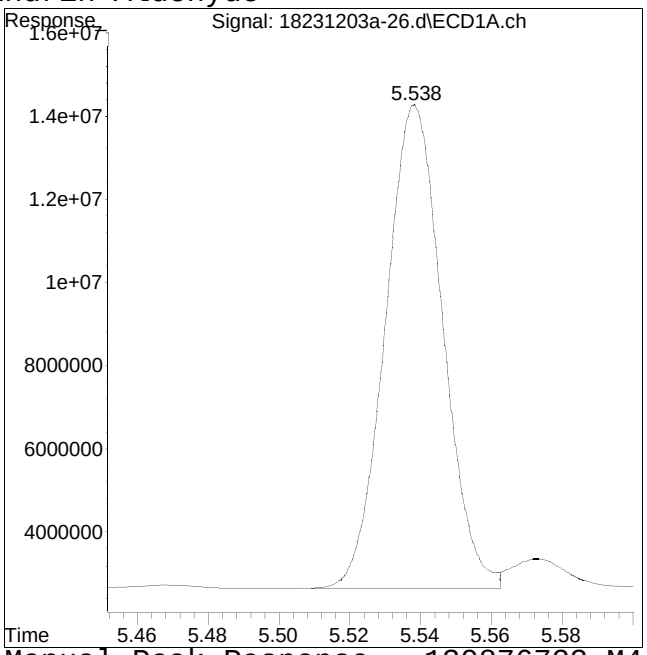
Original Peak Response = 203797866 Manual Peak Response = 188477080 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #22: Endrin Aldehyde



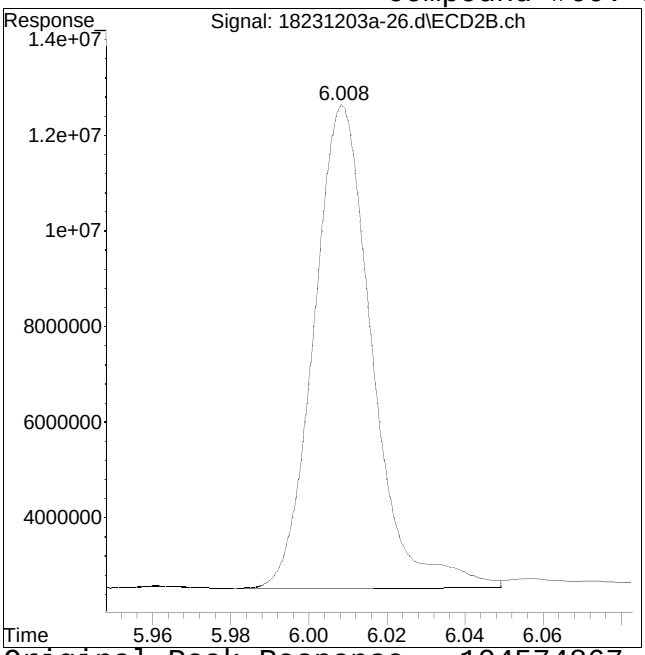


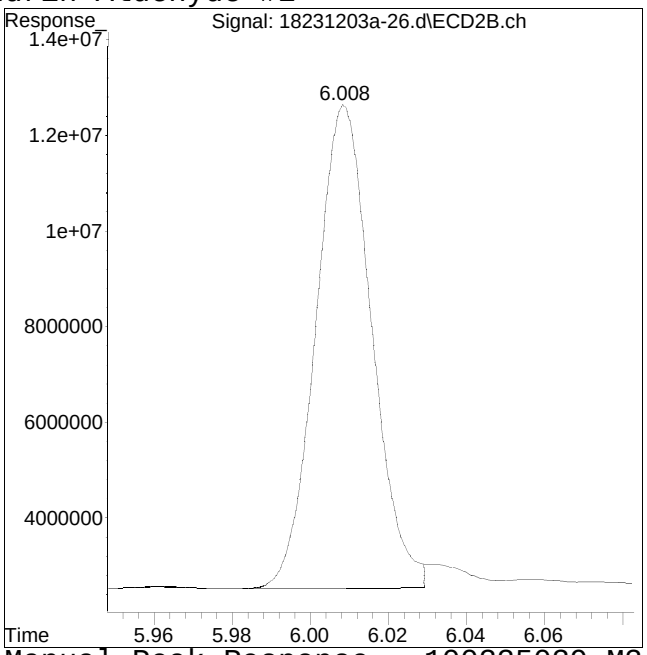
Original Peak Response = 138674788 Manual Peak Response = 130876723 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #60: Endrin Aldehyde #2



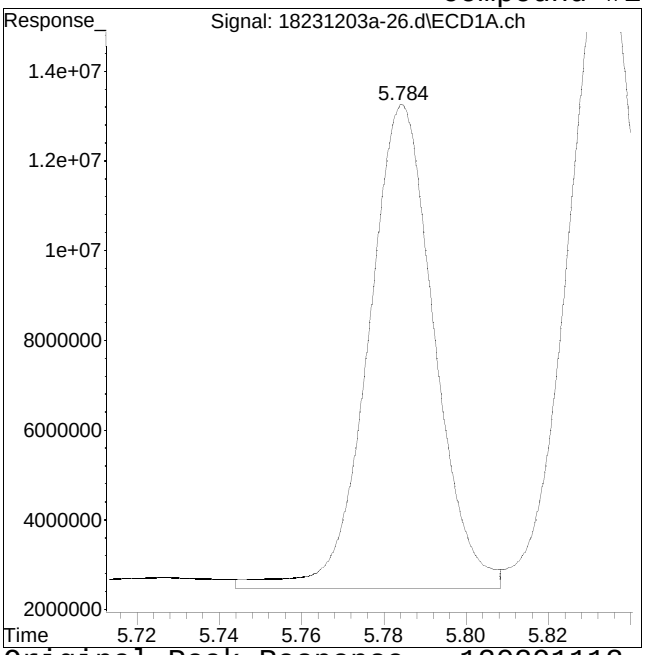


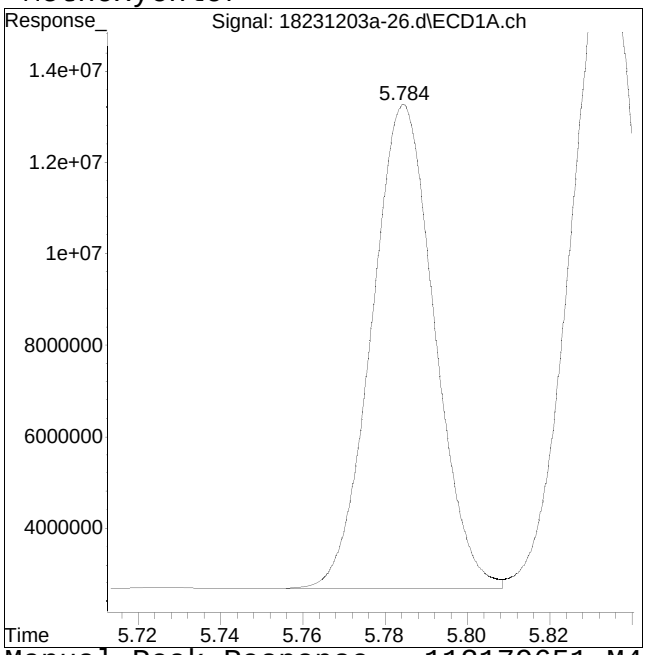
Original Peak Response = 104574867 Manual Peak Response = 100335039 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #23: Methoxychlor



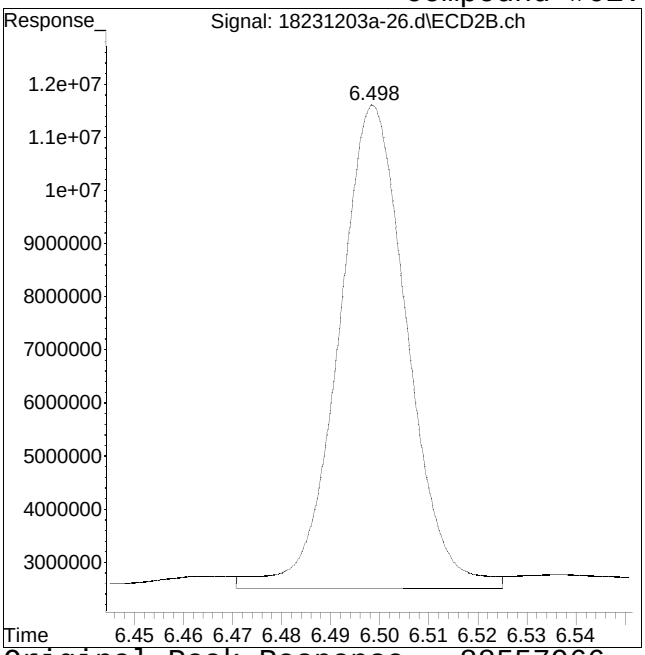


Original Peak Response = 120291112 Manual Peak Response = 112179651 M4
M4 = Poor automated baseline construction.

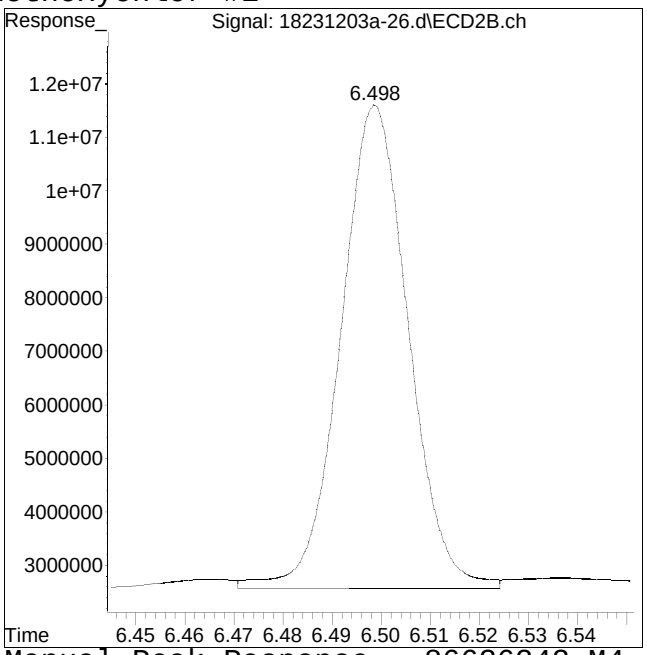
Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #61: Methoxychlor #2



Original Peak Response = 88557966



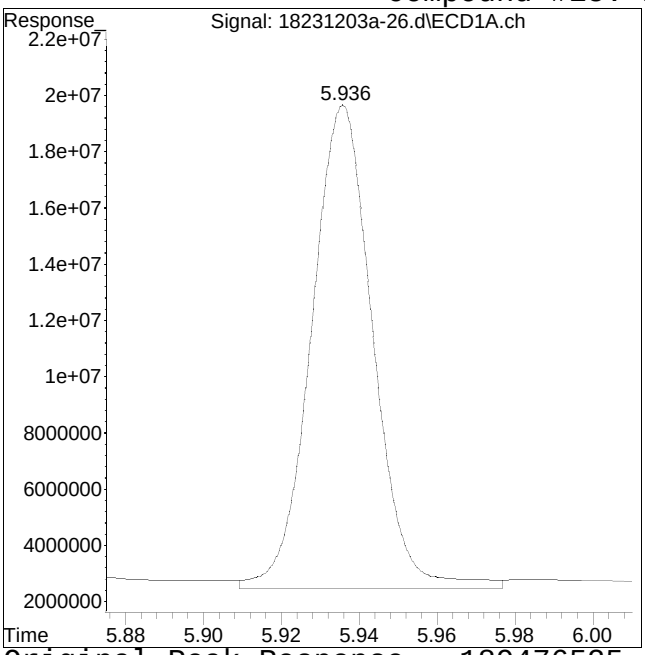
Manual Peak Response = 86636242 M4

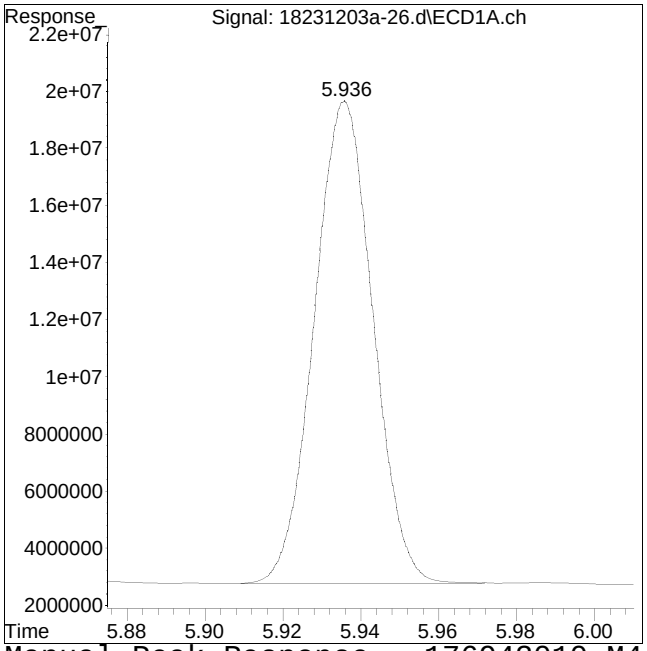
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #25: Endosulfan Sulfate



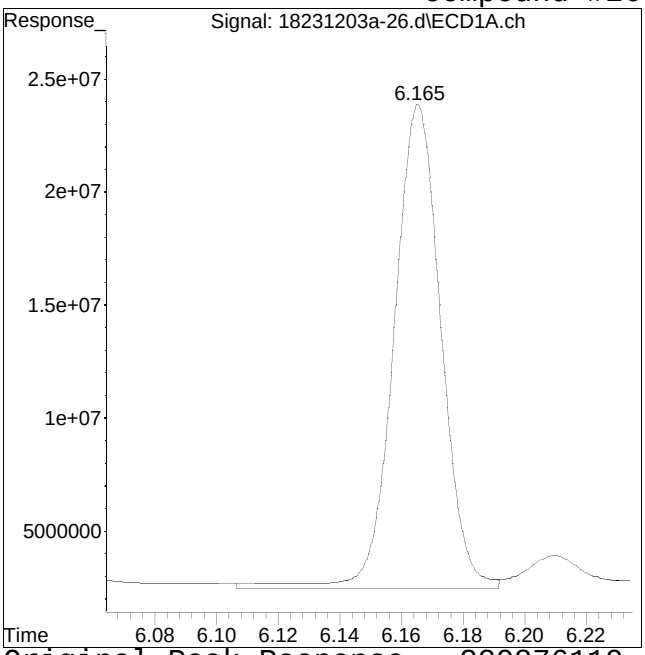


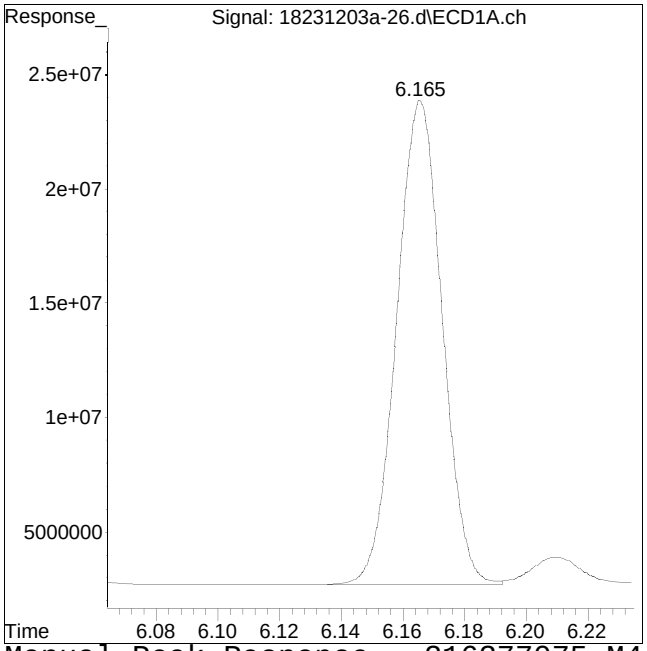
Original Peak Response = 189476525 Manual Peak Response = 176943010 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #26: Endrin Ketone



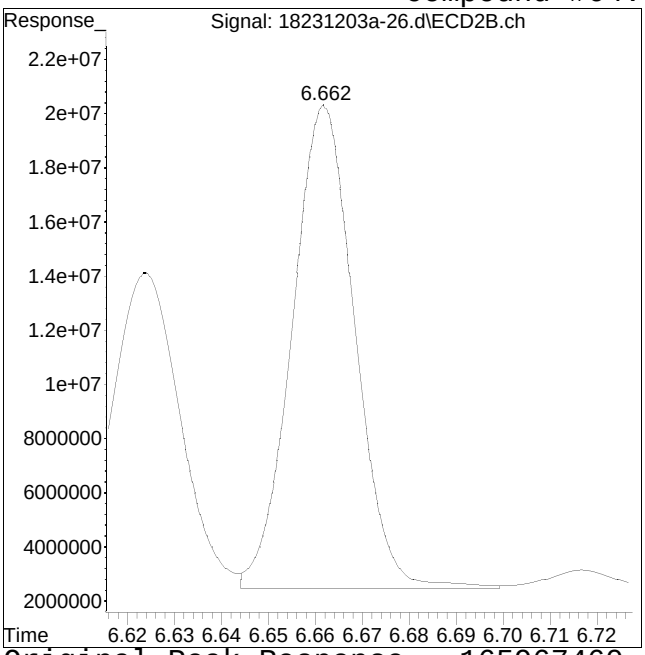


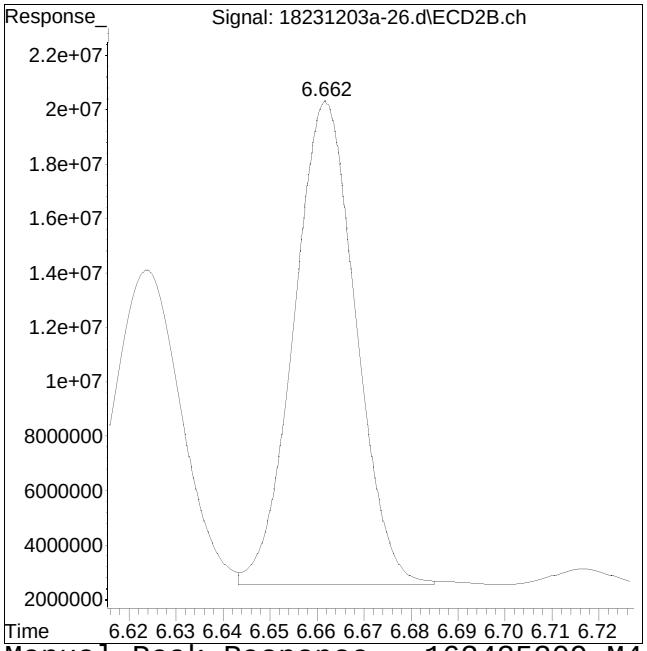
Original Peak Response = 229876119 Manual Peak Response = 216377075 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest18\2023\231203QMethod : pest18_2023_10_17_ugL_IC
Data File : 18231203a-26.d Operator : PEST18:mmg
Date Inj'd : 12/3/2023 1:34 pm Instrument : Pest 18
Sample : WG1859016-3,42,, Quant Date : 12/3/2023 1:44 pm

Compound #64: Endrin Ketone #2





Original Peak Response = 165967460 Manual Peak Response = 162435209 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-30.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:07 pm
Operator : PEST10:mmg
Sample : WG1859016-4,42,, ms
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:38:57 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.313	1.405	183.0E6	76387584	25.000	25.000M4
	Standard Area 1 : #1 = 199312348				Recovery =	91.81%	
	Standard Area 1 : #2 = 87020004				Recovery =	87.78%	
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.657	1.894	366.6E6	165.0E6	47.945M4	51.861M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	95.89%	103.72%
27) s	Decachlorobi	6.305	6.977	341.4E6	155.6E6	47.386M4	48.984
	Spiked Amount	50.000	Range 30 - 150		Recovery =	94.77%	97.97%
Target Compounds							
4) t	alpha-BHC	1.971	2.322	535.1E6	246.9E6	51.412M4	53.079
5) t	gamma-BHC (l	2.175	2.614	500.2E6	228.8E6	51.049M4	51.586M4
6) t	beta-BHC	2.231	2.679	233.6E6	106.3E6	51.543M4	50.724M4
7) t	delta-BHC	2.360	2.952	511.3E6	218.6E6	51.025M4	48.892M4
8) t	Heptachlor	2.521	3.020	499.4E6	235.5E6	52.177M3	50.517M4
9) t	Aldrin	2.764	3.346	452.2E6	228.9E6	51.525M4	53.309
12) t	Heptachlor E	3.312	3.971	453.4E6	218.0E6	52.359M4	49.211M4
13) t	gamma-Chlord	3.435	4.194	461.1E6	235.4E6	58.399M3	60.025M4
14) t	alpha-Chlord	3.569	4.360	426.5E6	230.6E6	46.392M4	52.018M4
15) t	4,4'-DDE	3.665	4.552	452.5E6	230.3E6	53.313M4	55.786
16) t	Endosulfan I	3.708	4.420	428.8E6	218.6E6	51.425M3	52.433
17) t	Dieldrin	3.969	4.707	492.5E6	242.2E6	57.883	58.179
18) t	Endrin	4.226	5.000	479.3E6	230.7E6	54.122	53.373
19) t	4,4'-DDD	4.334	5.117	412.8E6	202.3E6	59.051	59.512M3
20) t	Endosulfan I	4.466	5.196	439.4E6	217.0E6	54.492M3	53.599
21) t	4,4'-DDT	4.626	5.392	441.4E6	216.1E6	55.058	55.078
22) t	Endrin Aldeh	4.886	5.489	305.2E6	155.4E6	46.125M4	49.119
23) t	Methoxychlor	5.112	5.950	246.1E6	116.3E6	53.409M4	51.171M3
25) t	Endosulfan S	5.280	5.716	424.6E6	214.2E6	53.774M3	54.246

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-30.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:07 pm
Operator : PEST10:mmg
Sample : WG1859016-4,42,, ms
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:38:57 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
26) t Endrin Keton	5.506	6.125	501.5E6	235.6E6	55.701M3	54.580
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

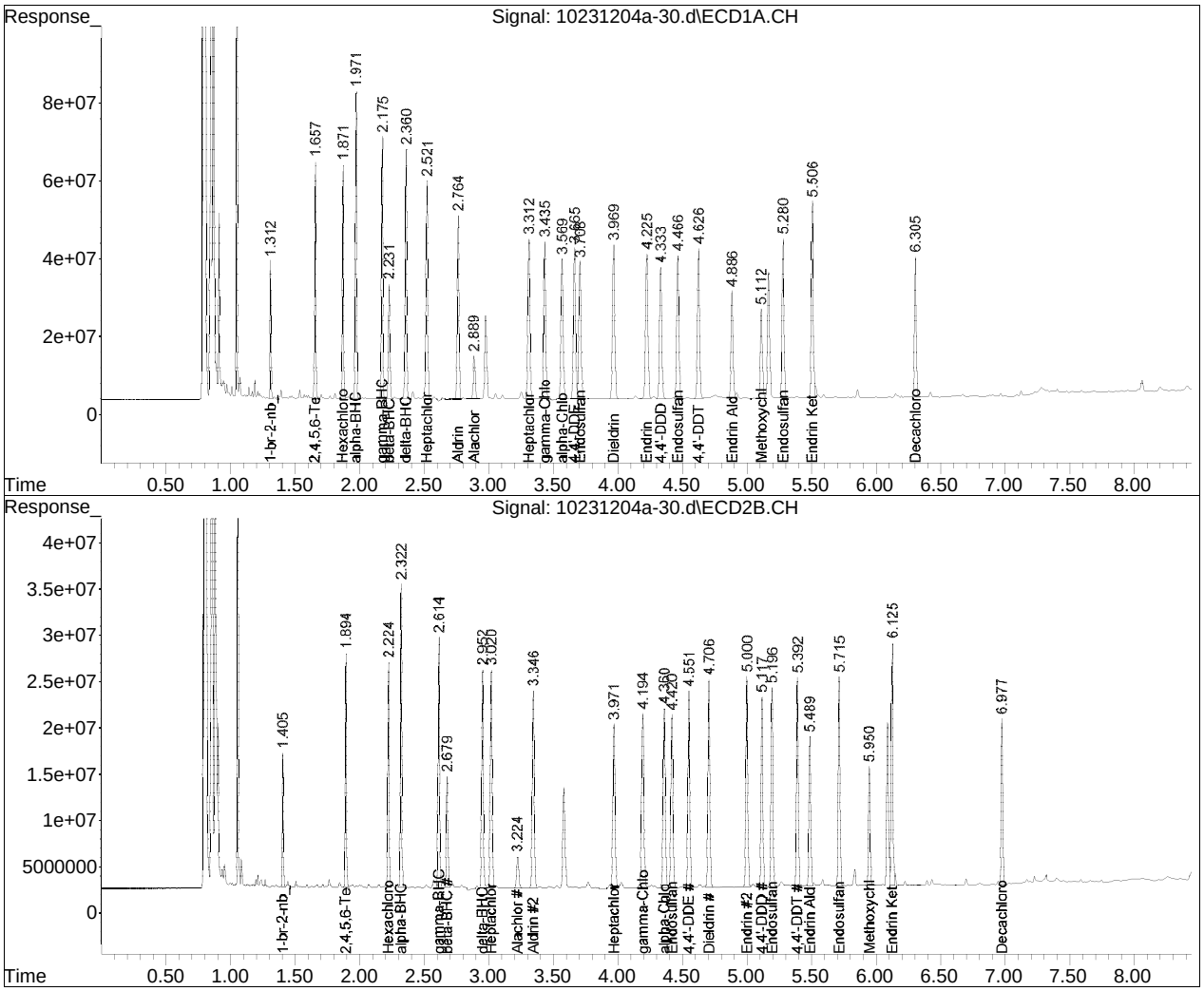
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2023\231204A\10231204a-27.d••

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-30.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:07 pm
Operator : PEST10:mmg
Sample : WG1859016-4,42,, ms
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:38:57 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

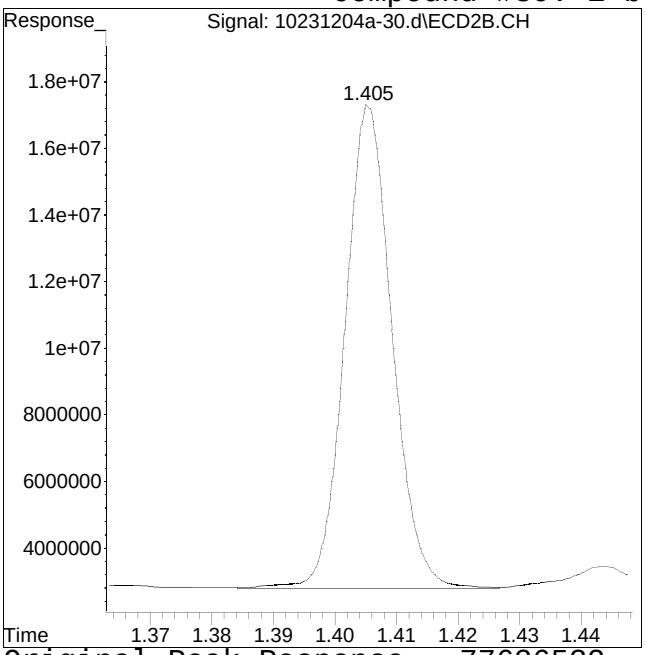
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



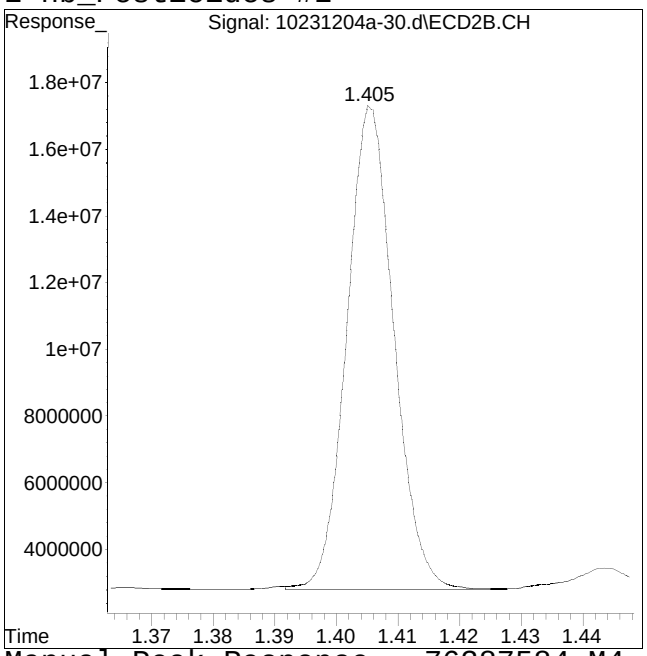
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 77636532



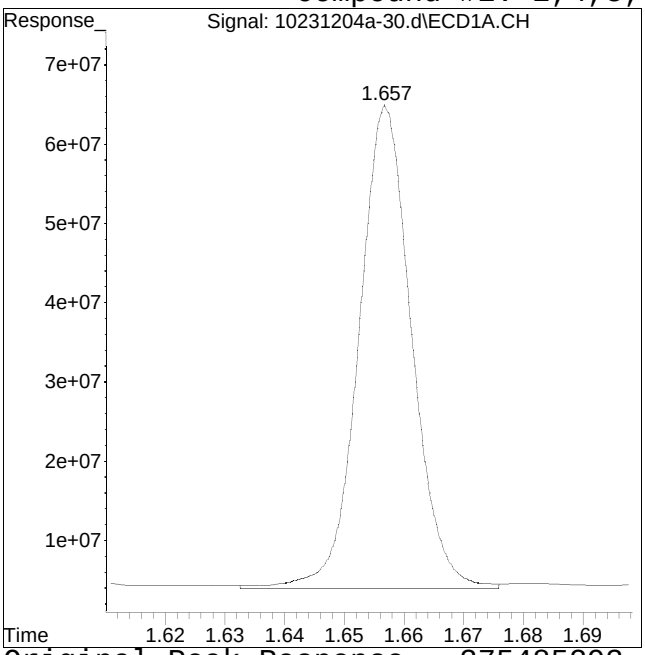
Manual Peak Response = 76387584 M4

M4 = Poor automated baseline construction.

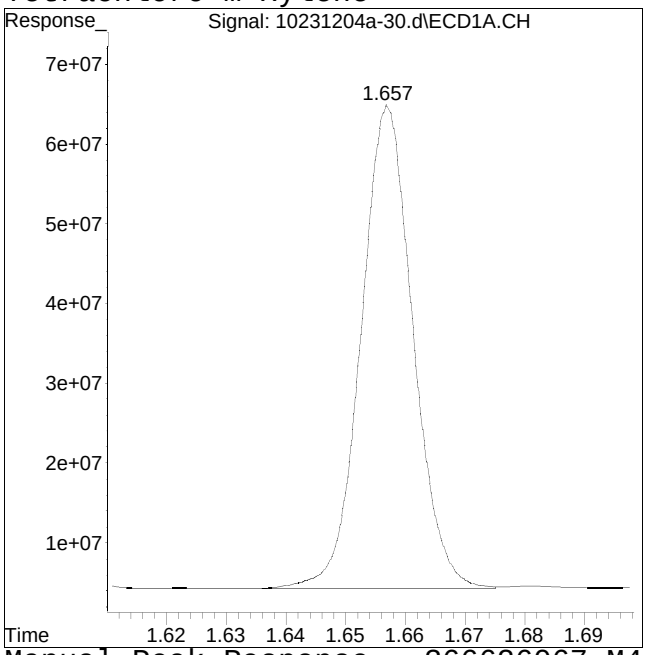
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 375485293



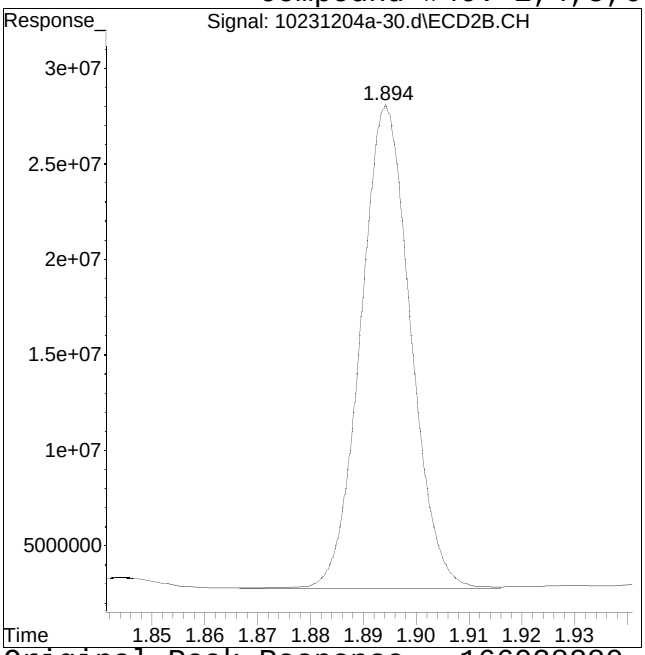
Manual Peak Response = 366626067 M4

M4 = Poor automated baseline construction.

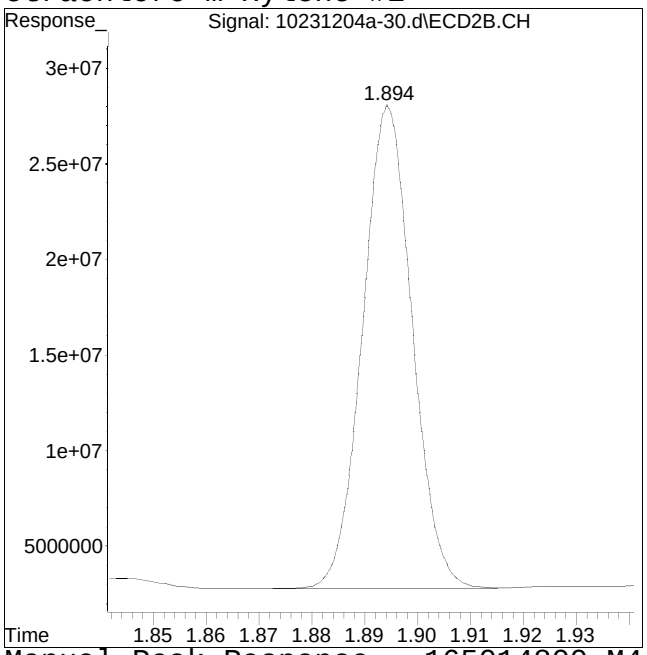
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 166028280



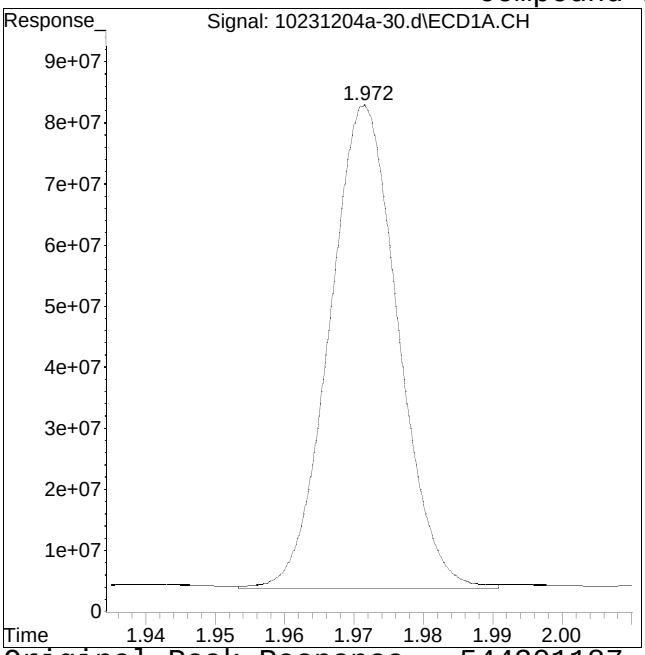
Manual Peak Response = 165014800 M4

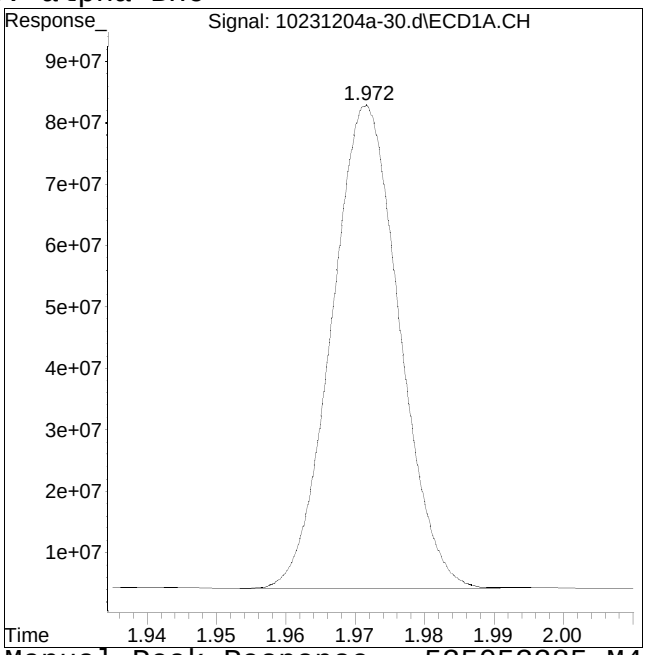
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #4: alpha-BHC



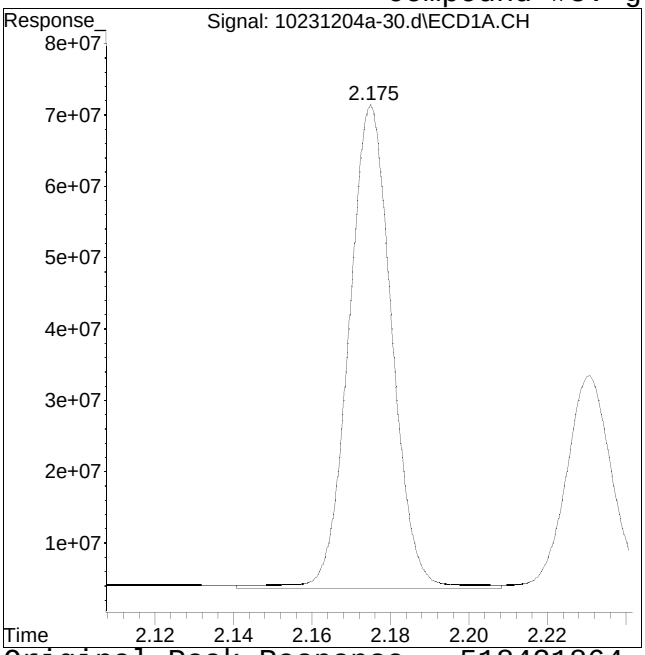


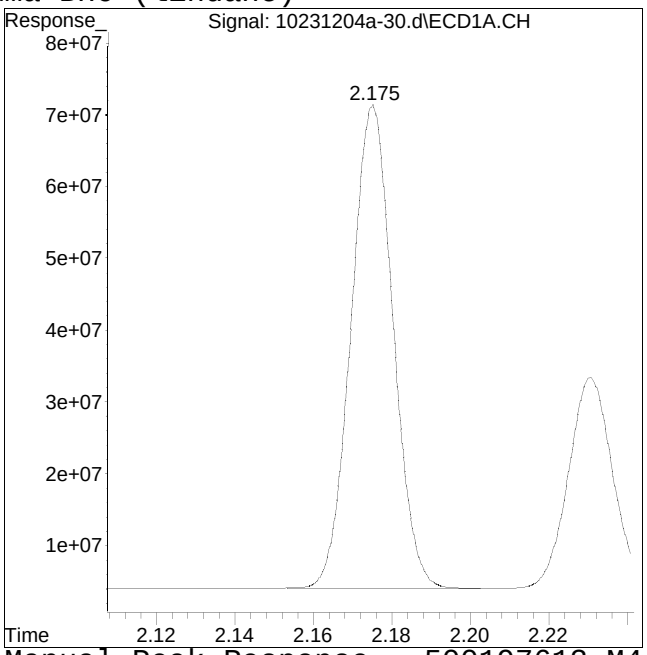
Original Peak Response = 544301187 Manual Peak Response = 535053385 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #5: gamma-BHC (lindane)



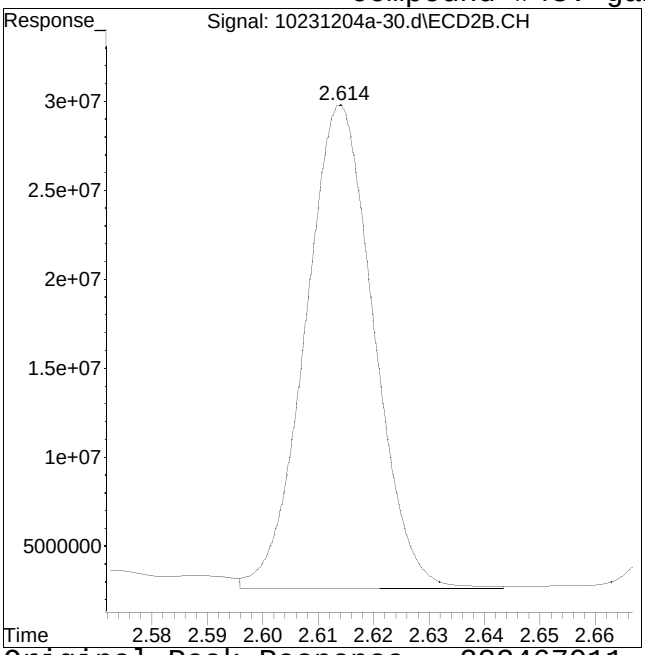


Original Peak Response = 518421864 Manual Peak Response = 500197613 M4
M4 = Poor automated baseline construction.

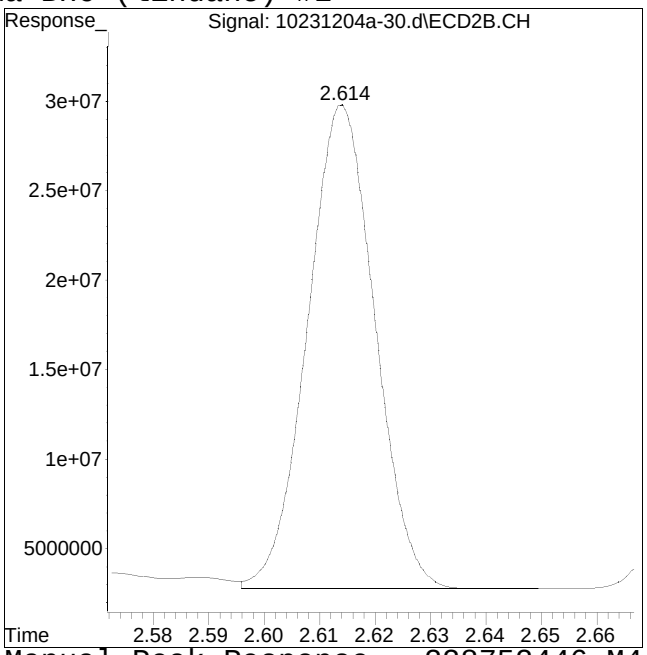
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #43: gamma-BHC (lindane) #2



Original Peak Response = 232467911



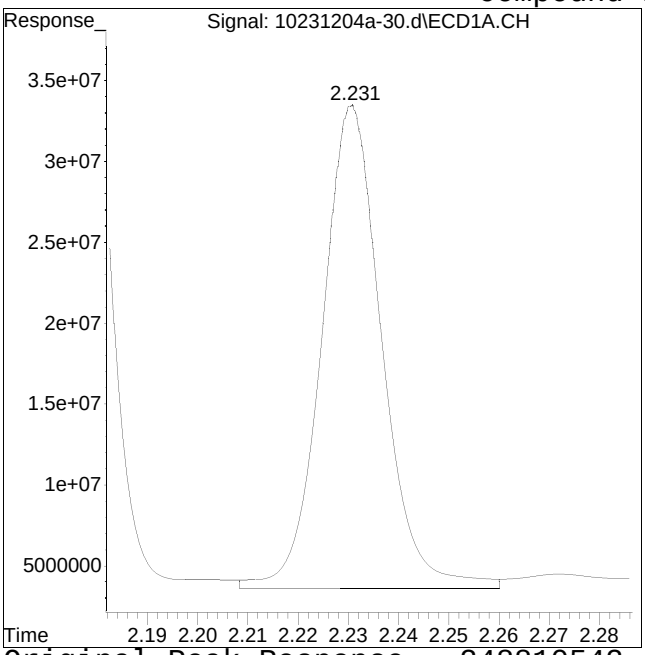
Manual Peak Response = 228752446 M4

M4 = Poor automated baseline construction.

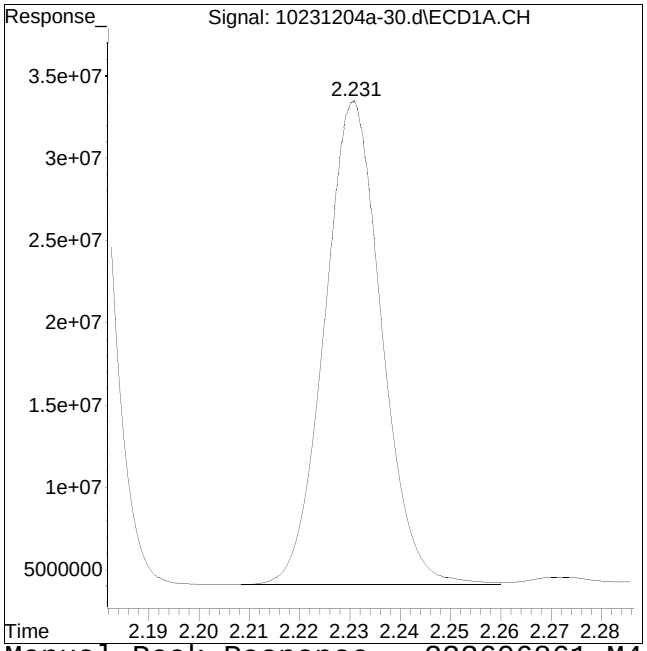
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #6: beta-BHC



Original Peak Response = 248810542

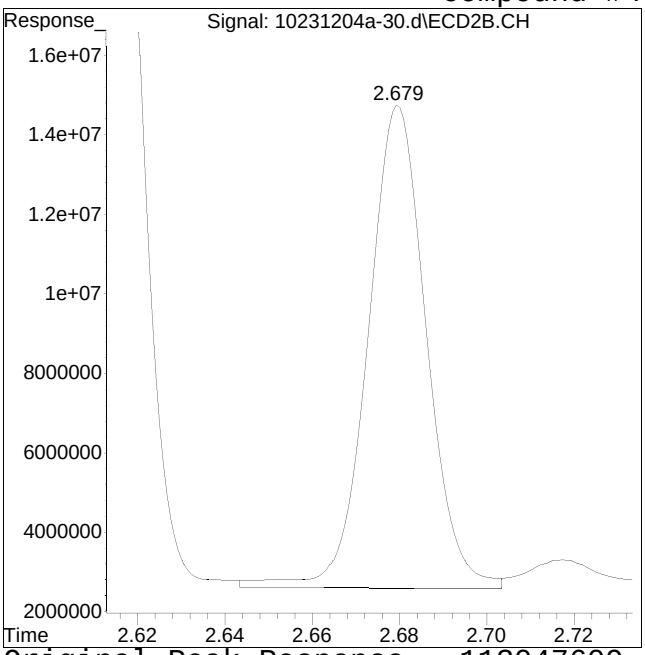


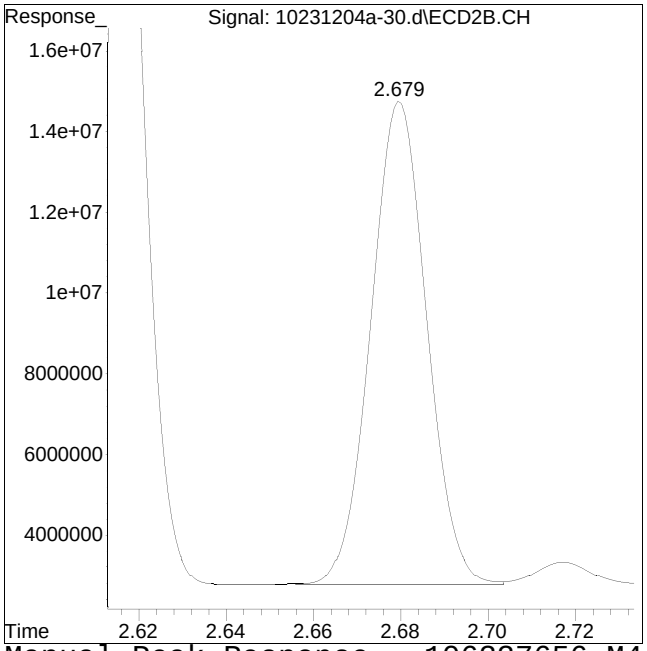
Manual Peak Response = 233606861 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #44: beta-BHC #2



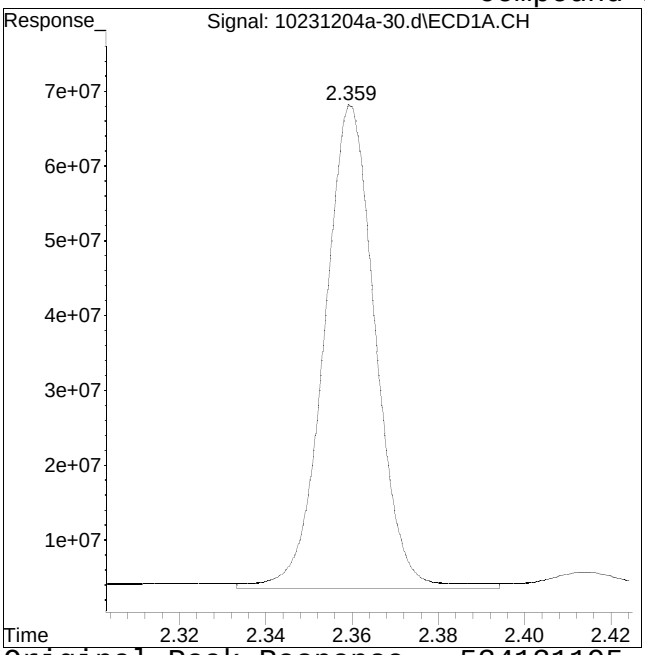


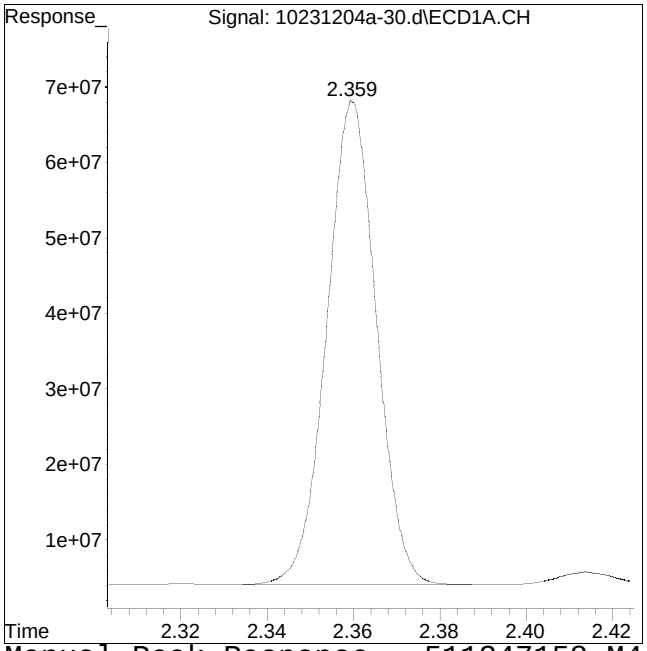
Original Peak Response = 113047609 Manual Peak Response = 106337656 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #7: delta-BHC



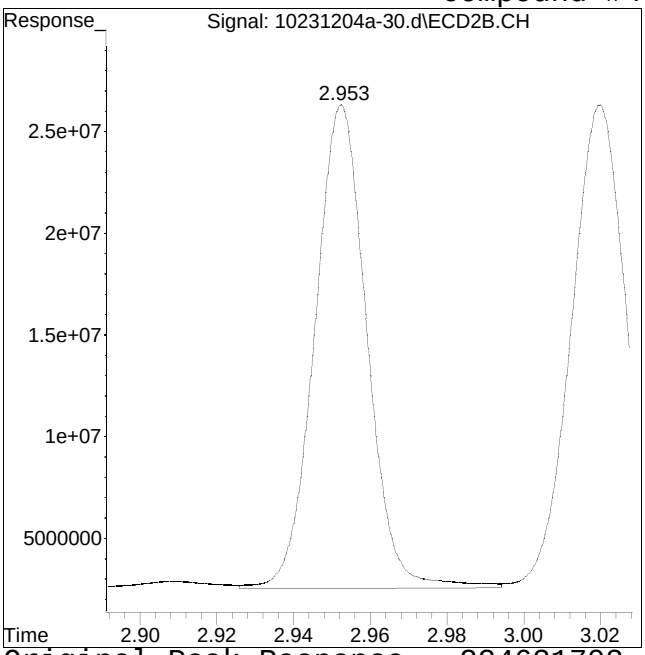


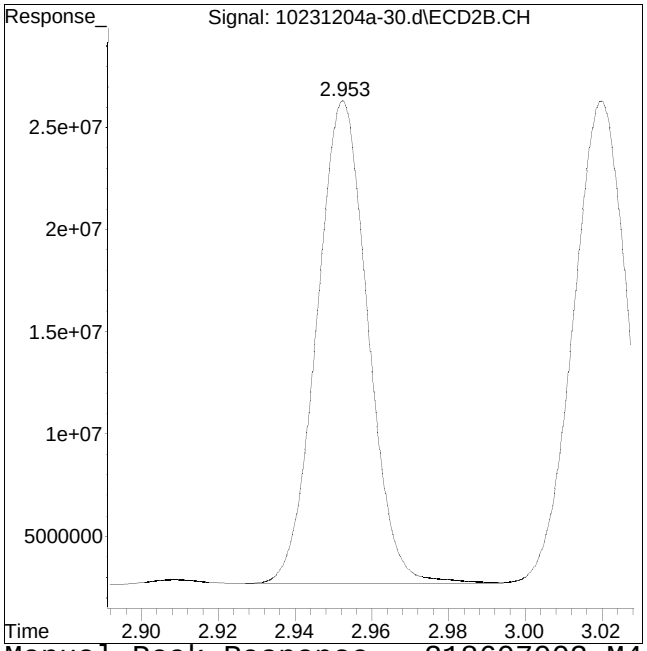
Original Peak Response = 534131195 Manual Peak Response = 511347158 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #45: delta-BHC #2



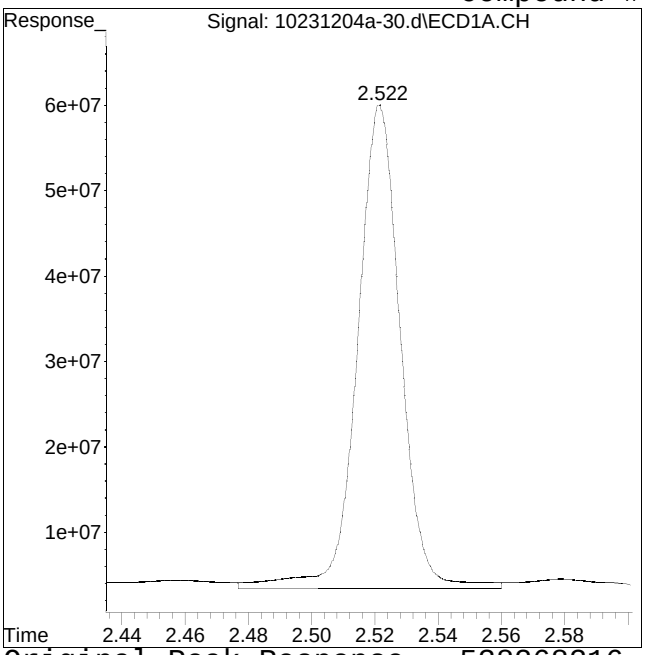


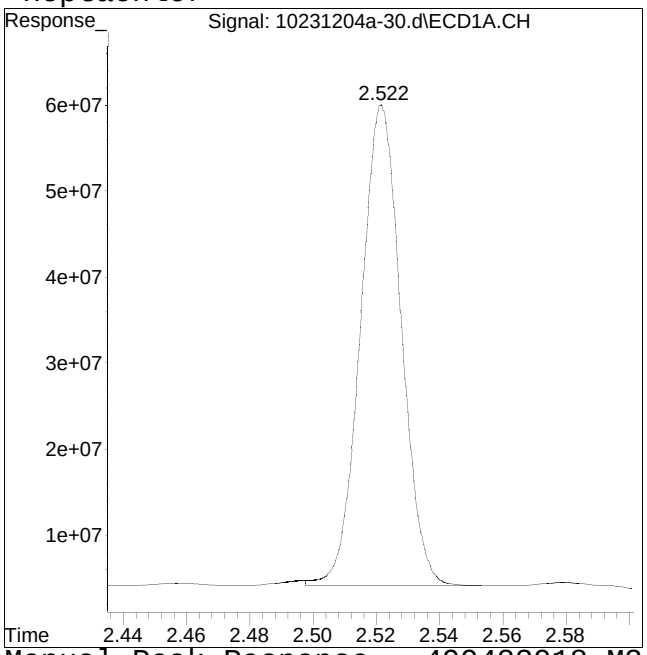
Original Peak Response = 224621702 Manual Peak Response = 218607003 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #8: Heptachlor



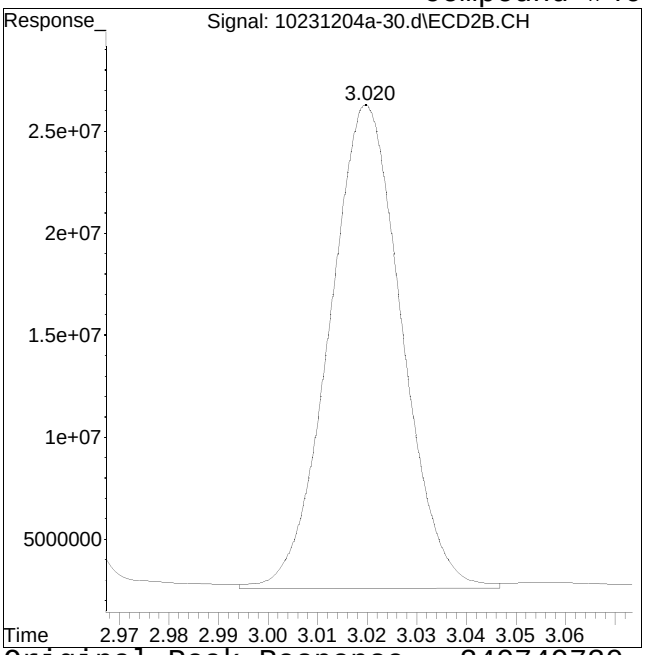


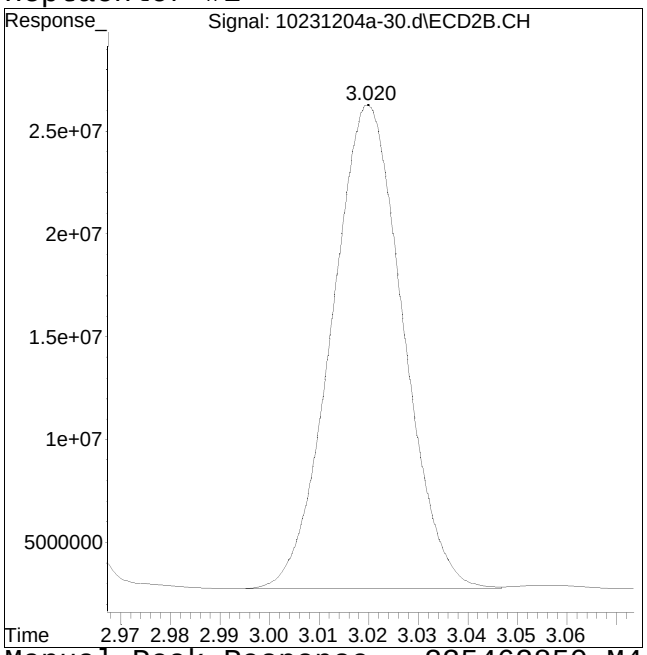
Original Peak Response = 538268316 Manual Peak Response = 499423918 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #46: Heptachlor #2



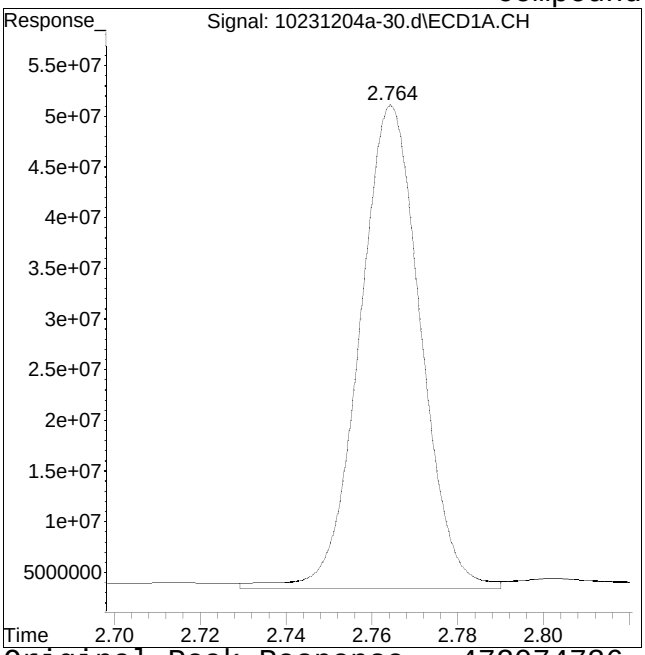


Original Peak Response = 240749730 Manual Peak Response = 235462850 M4
M4 = Poor automated baseline construction.

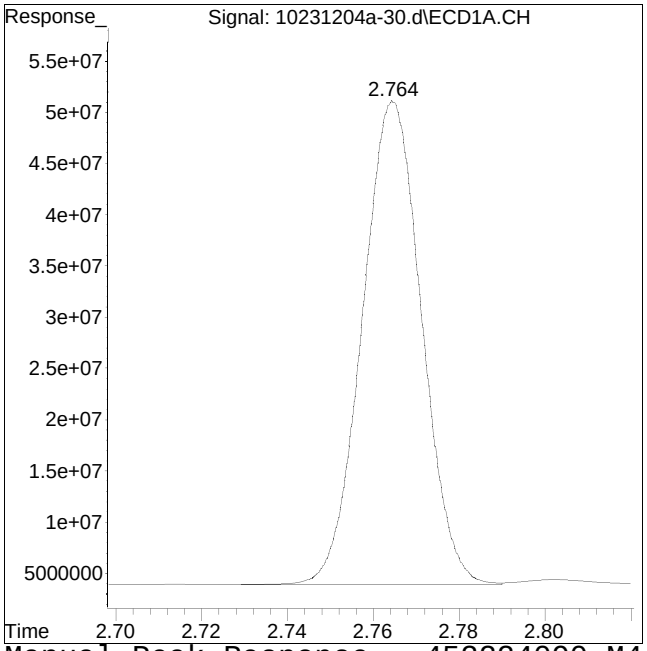
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #9: Aldrin



Original Peak Response = 472074736



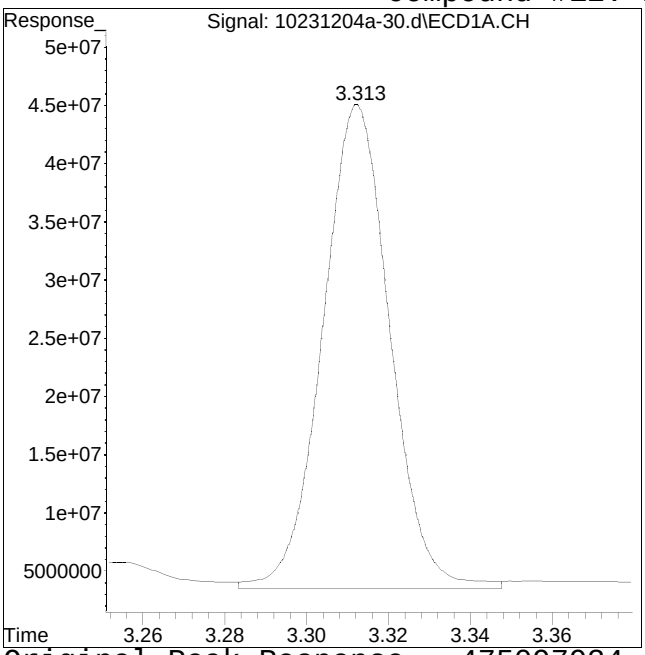
Manual Peak Response = 452224090 M4

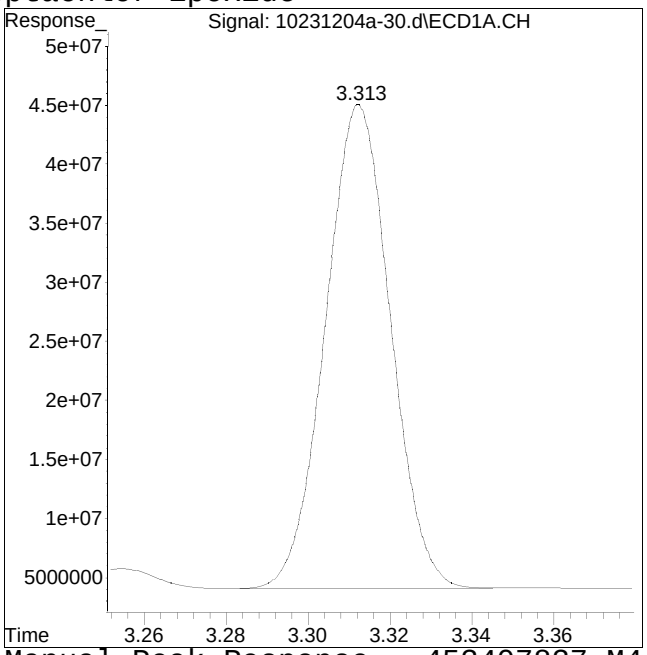
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #12: Heptachlor Epoxide



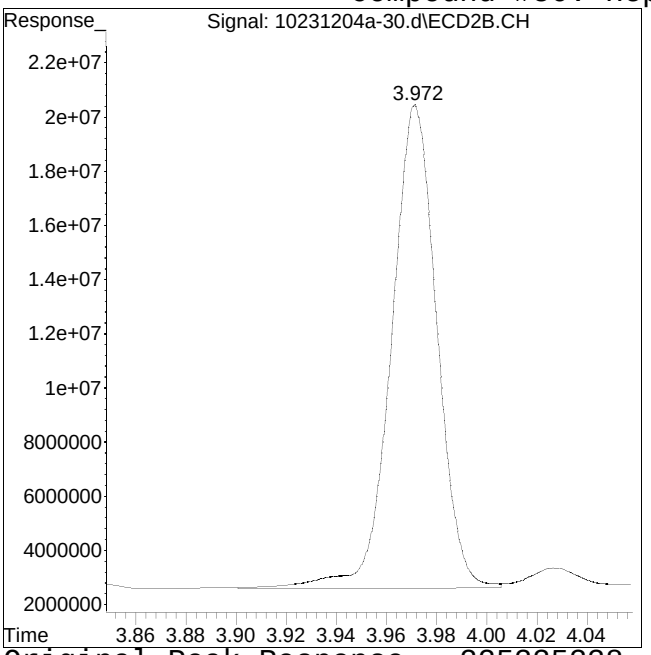


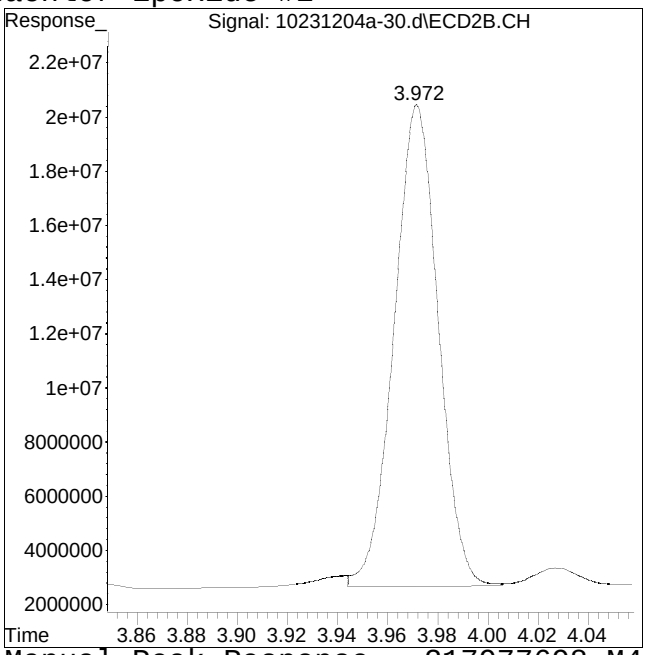
Original Peak Response = 475097934 Manual Peak Response = 453407837 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #50: Heptachlor Epoxide #2



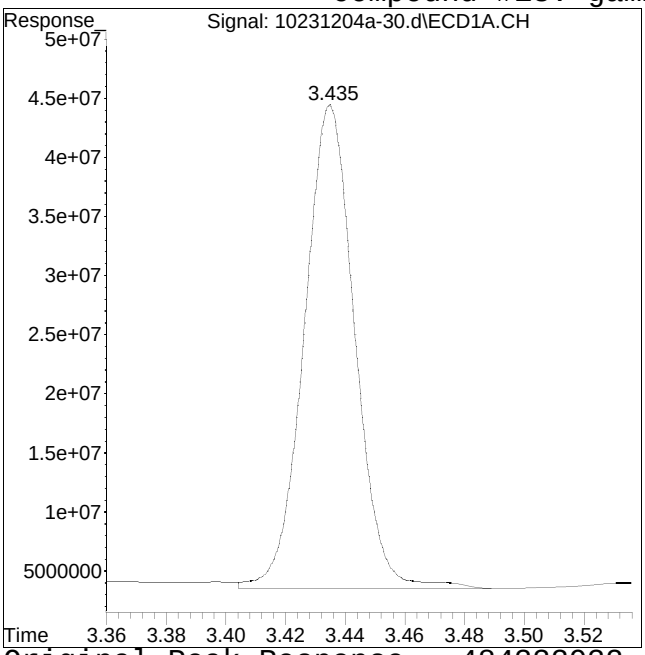


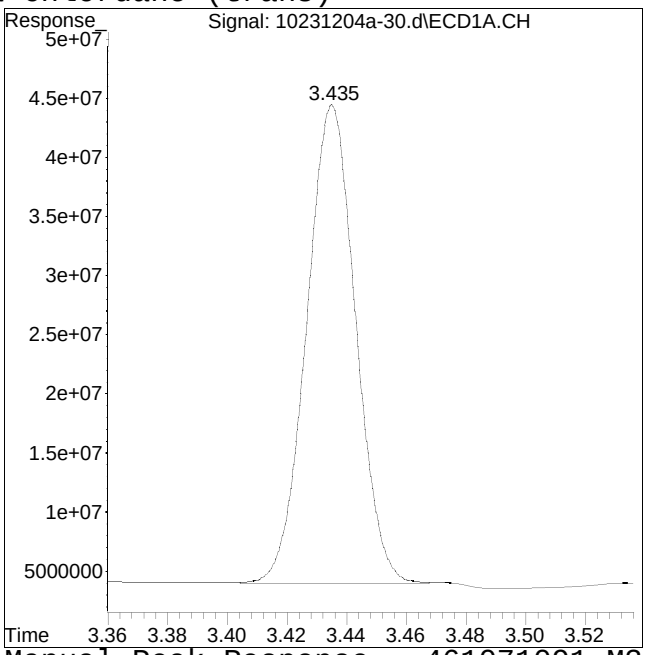
Original Peak Response = 225335338 Manual Peak Response = 217977698 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #13: gamma-Chlordane (trans)



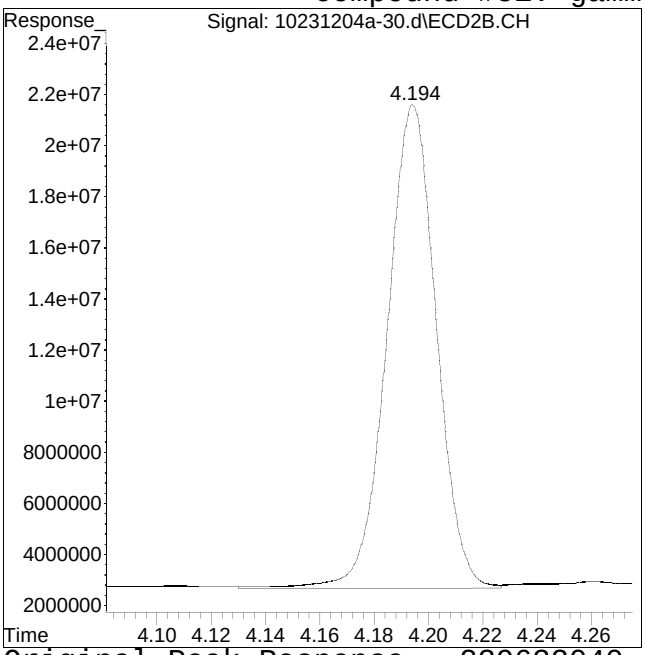


Original Peak Response = 484332932 Manual Peak Response = 461071091 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

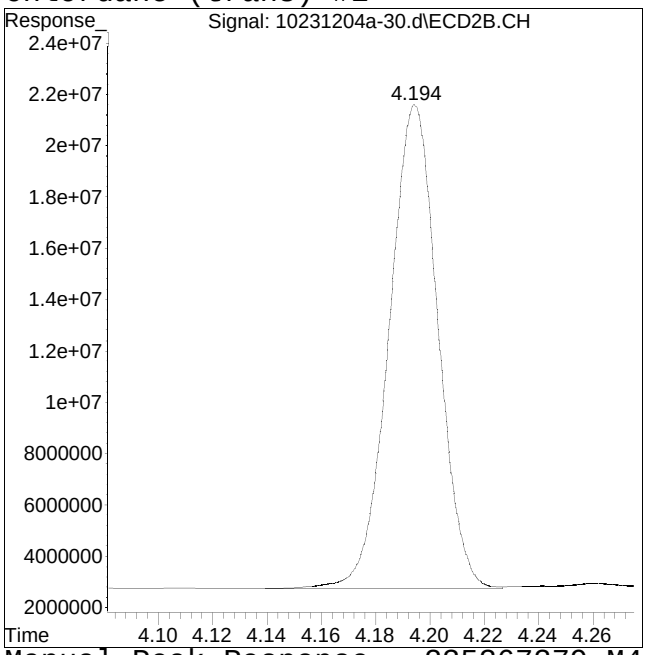
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #51: gamma-Chlordane (trans) #2



Original Peak Response = 239632040



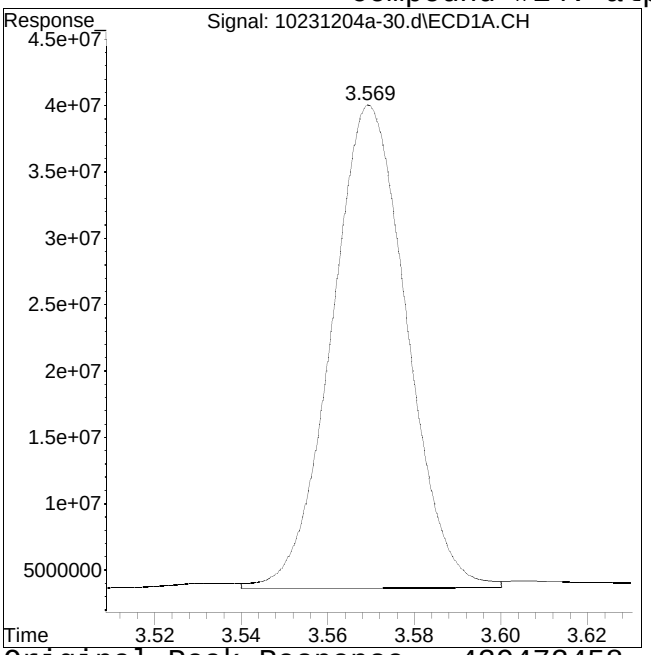
Manual Peak Response = 235367379 M4

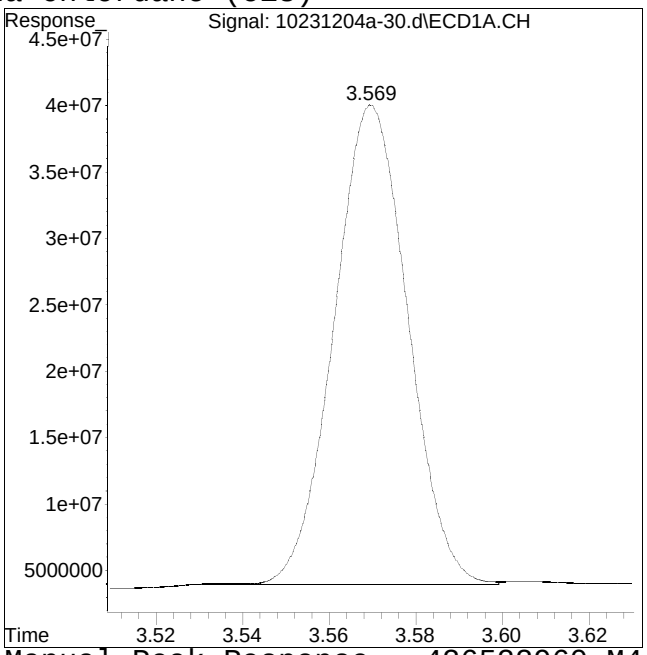
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #14: alpha-Chlordane (cis)



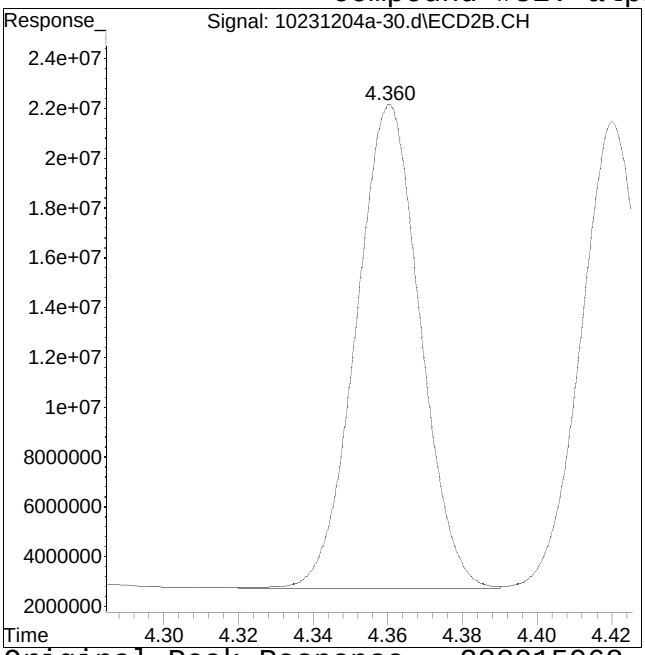


Original Peak Response = 439472458 Manual Peak Response = 426522960 M4
M4 = Poor automated baseline construction.

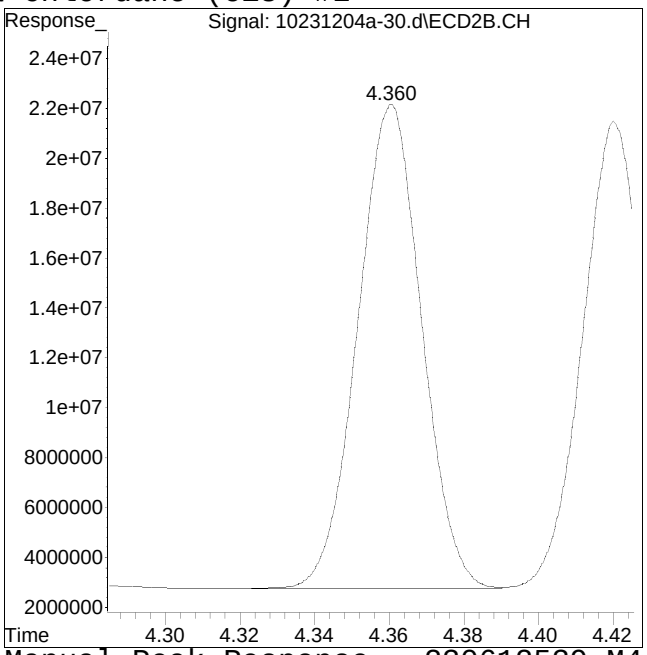
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #52: alpha-Chlordane (cis) #2



Original Peak Response = 232015968



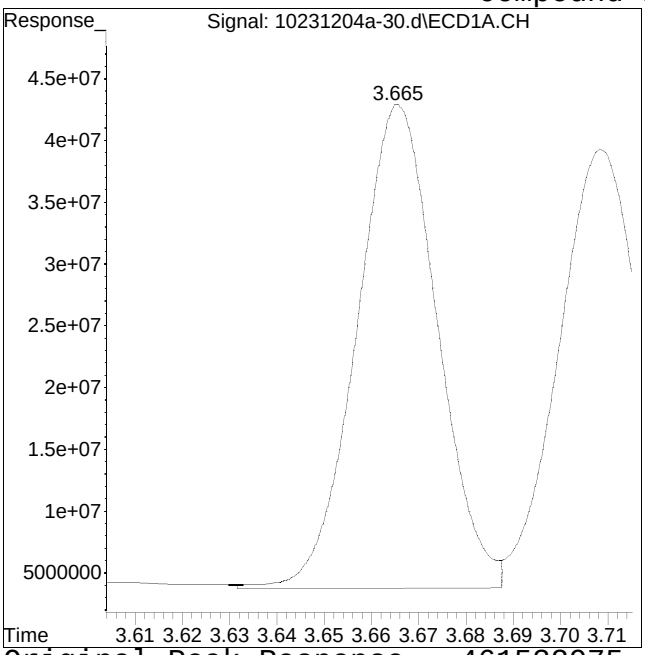
Manual Peak Response = 230612539 M4

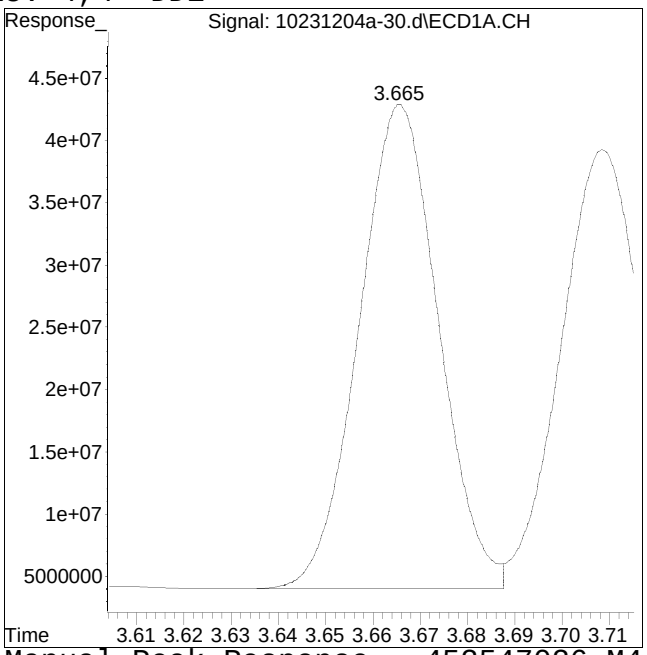
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #15: 4,4'-DDE



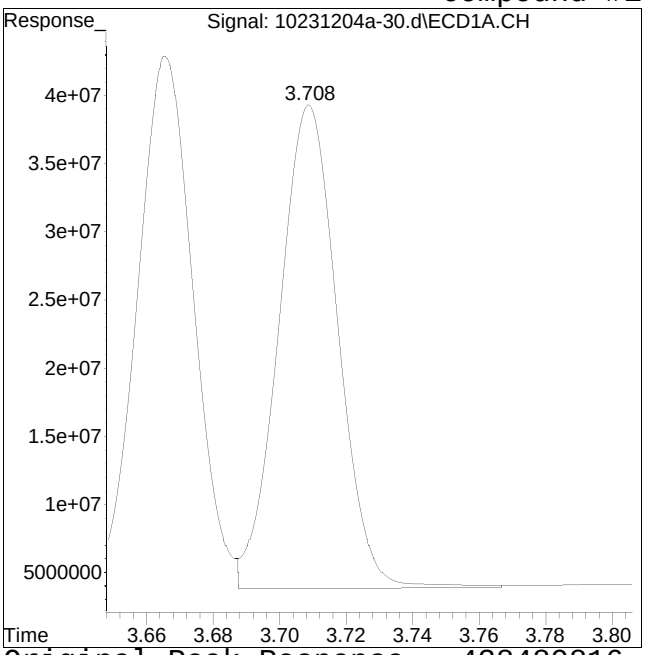


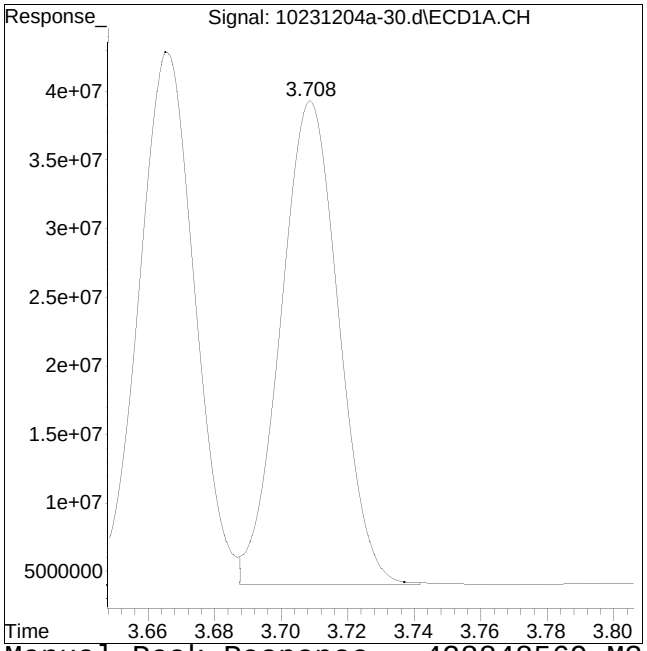
Original Peak Response = 461532975 Manual Peak Response = 452547026 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #16: Endosulfan I



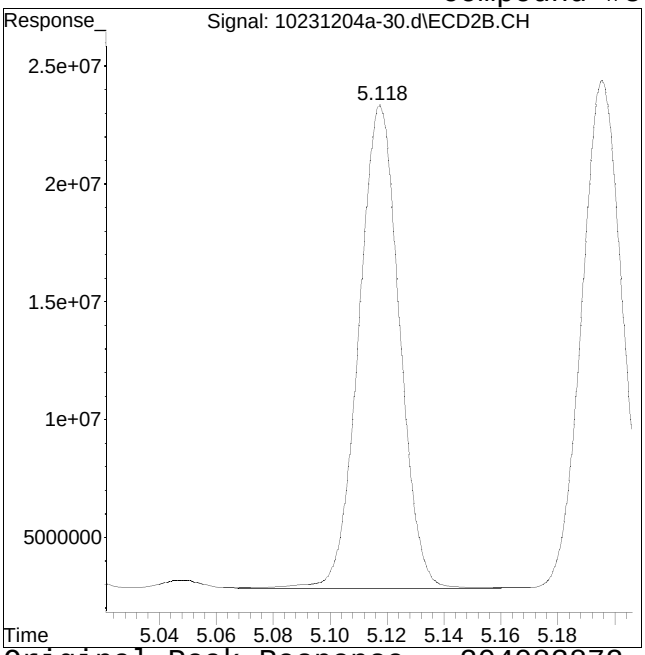


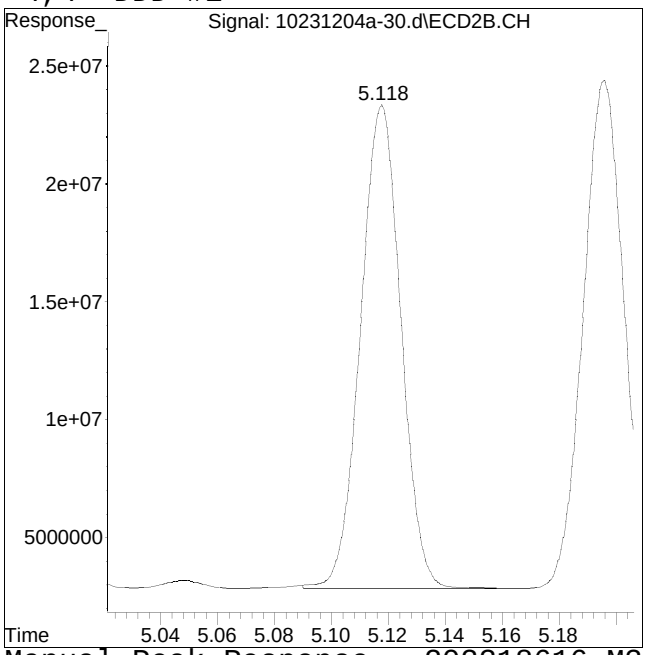
Original Peak Response = 438489816 Manual Peak Response = 428848569 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #57: 4,4'-DDD #2



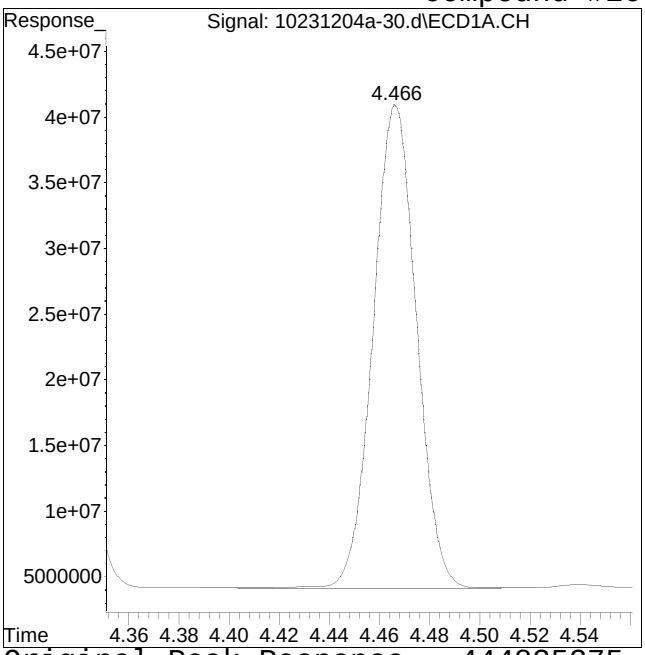


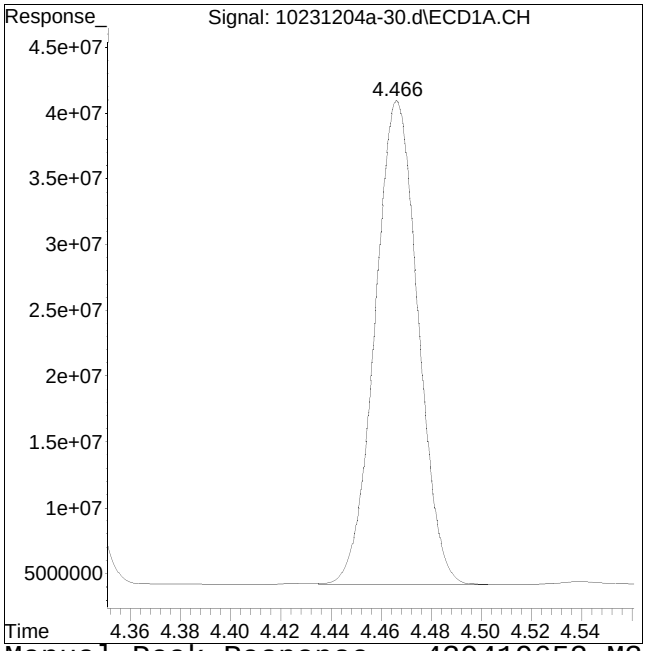
Original Peak Response = 204083872 Manual Peak Response = 202318616 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #20: Endosulfan II



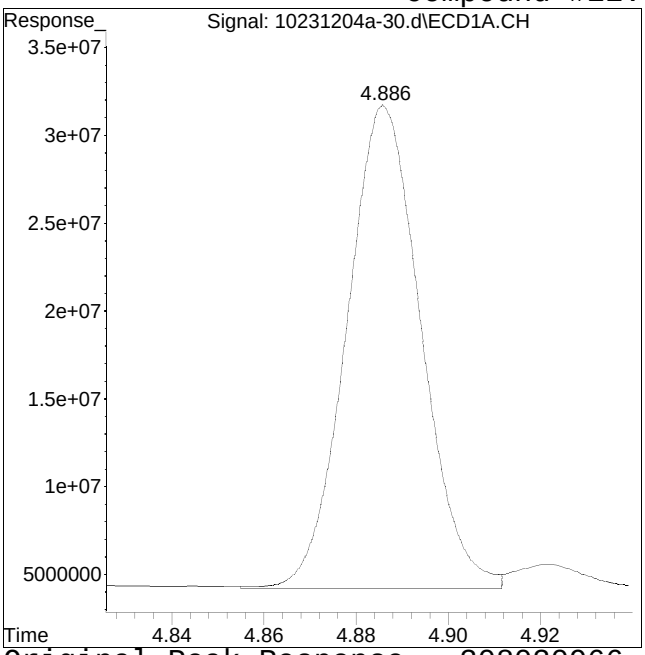


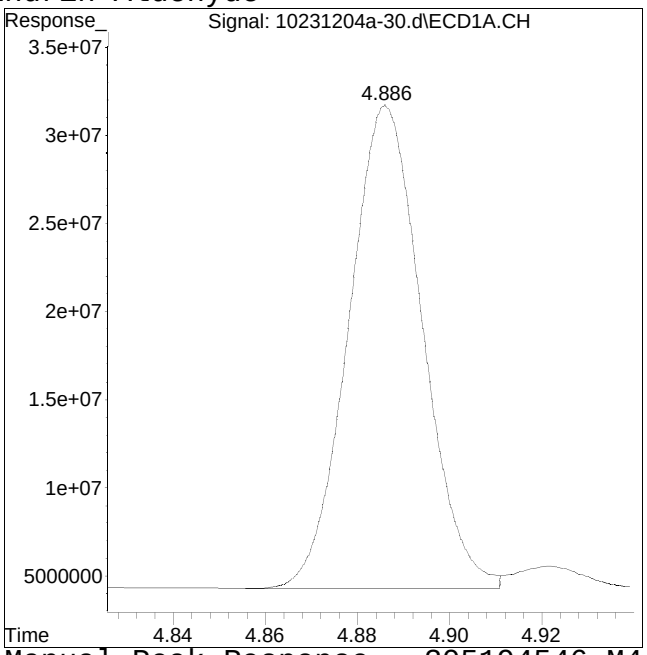
Original Peak Response = 444835275 Manual Peak Response = 439419653 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #22: Endrin Aldehyde



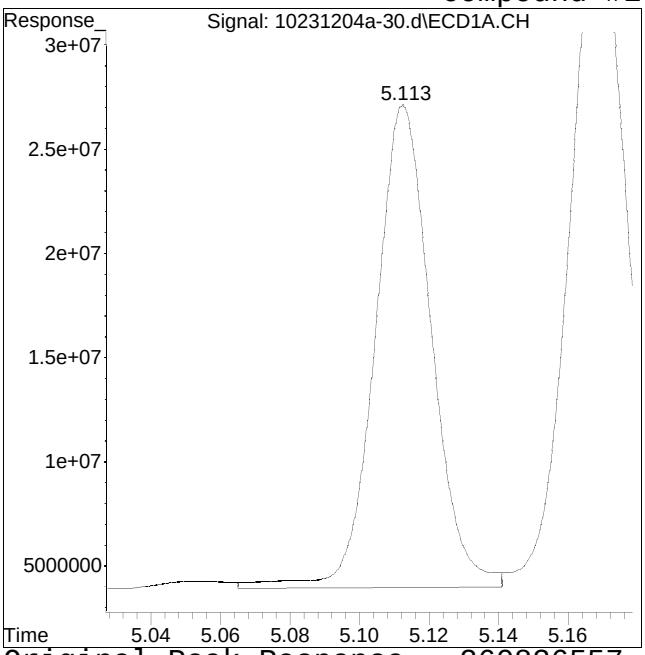


Original Peak Response = 308030966 Manual Peak Response = 305194546 M4
M4 = Poor automated baseline construction.

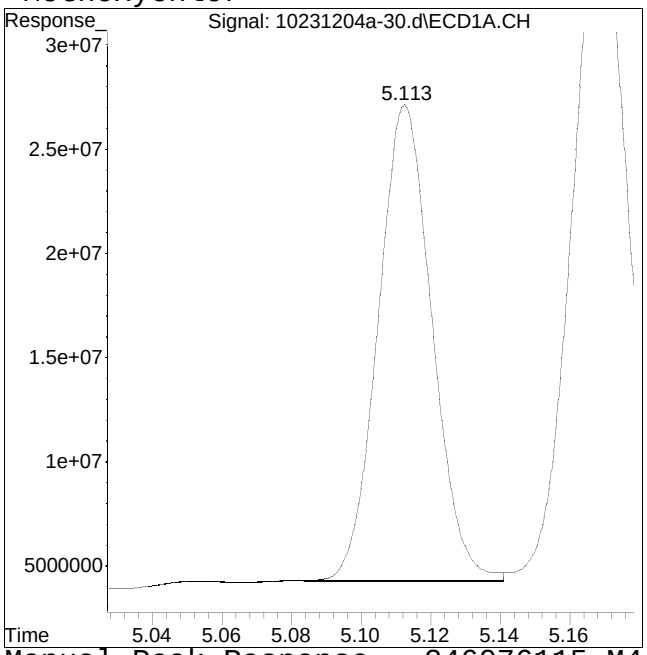
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #23: Methoxychlor



Original Peak Response = 260836557



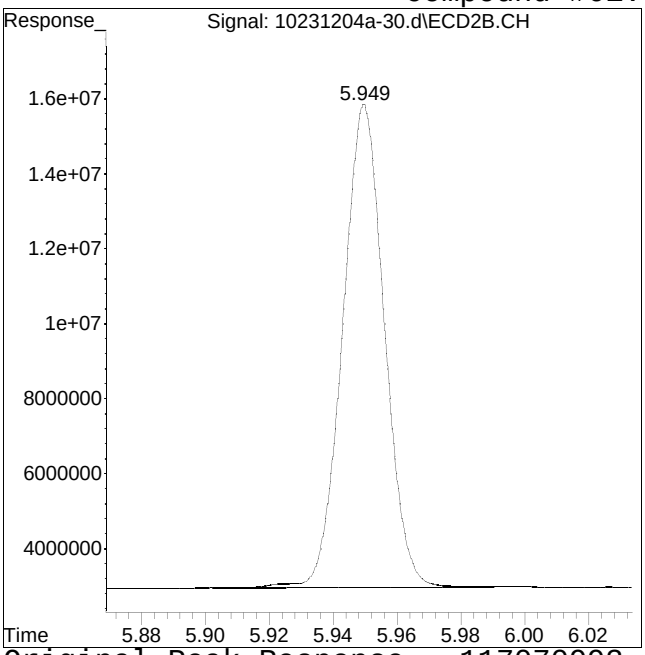
Manual Peak Response = 246076115 M4

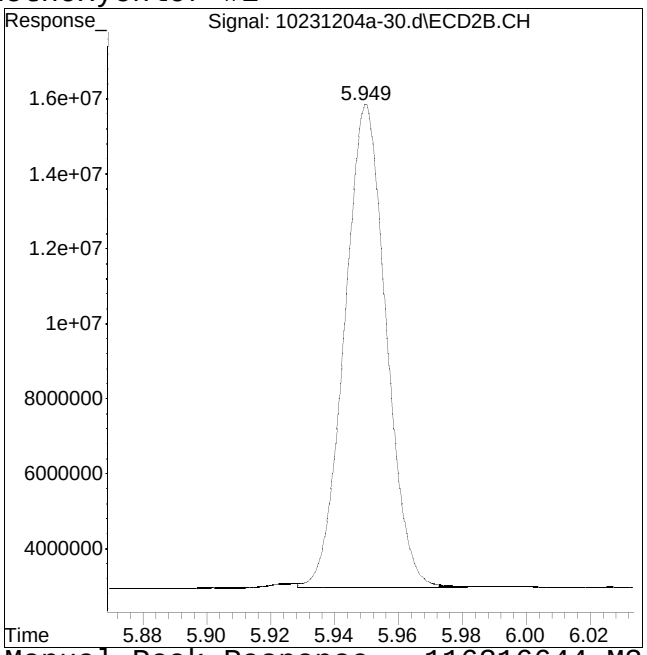
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #61: Methoxychlor #2



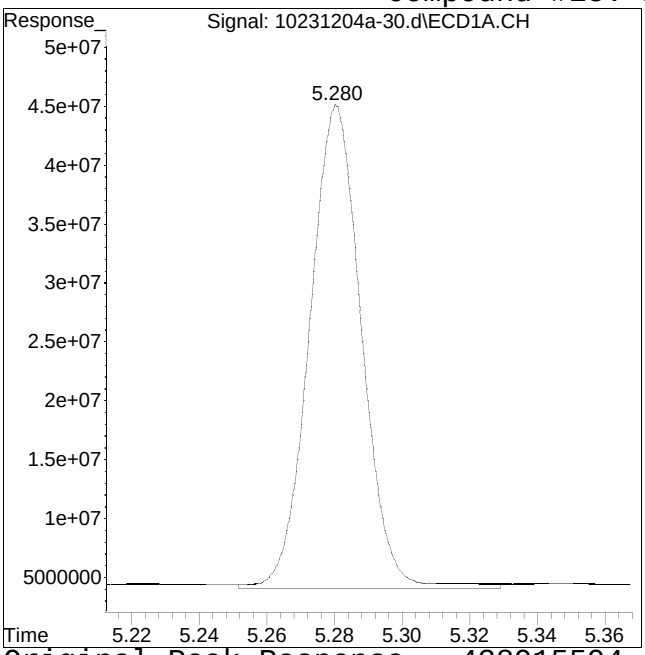


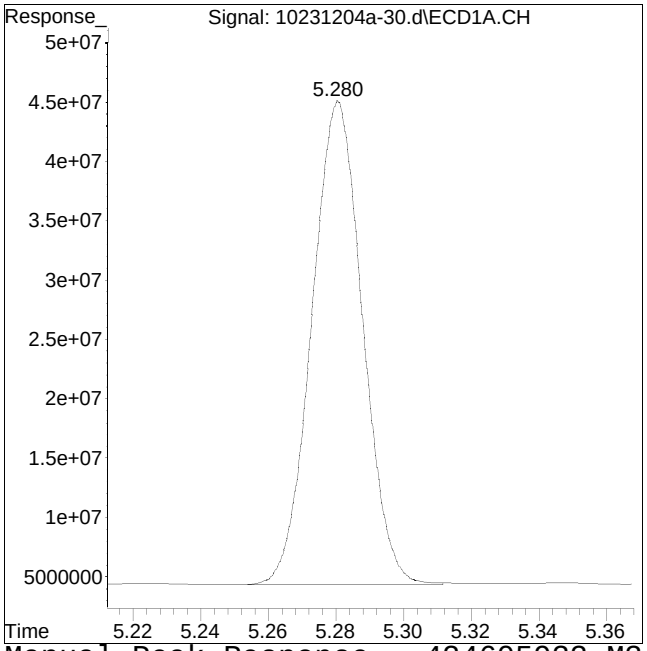
Original Peak Response = 117070993 Manual Peak Response = 116316644 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #25: Endosulfan Sulfate



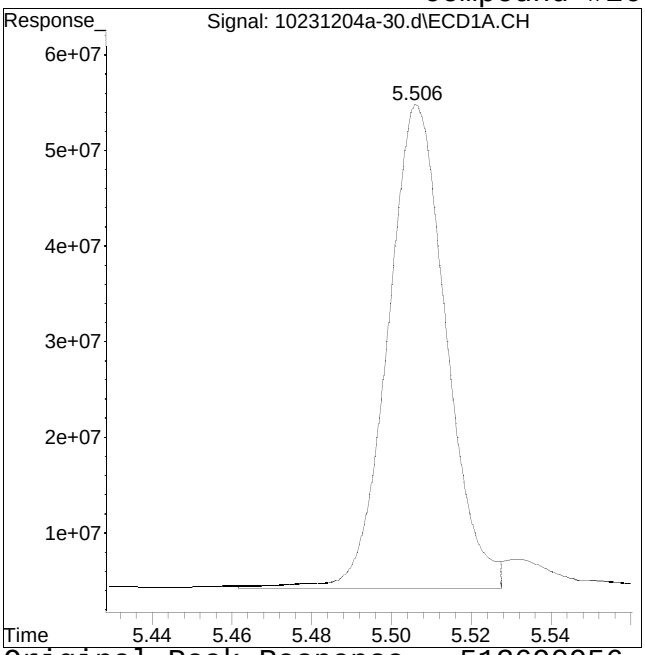


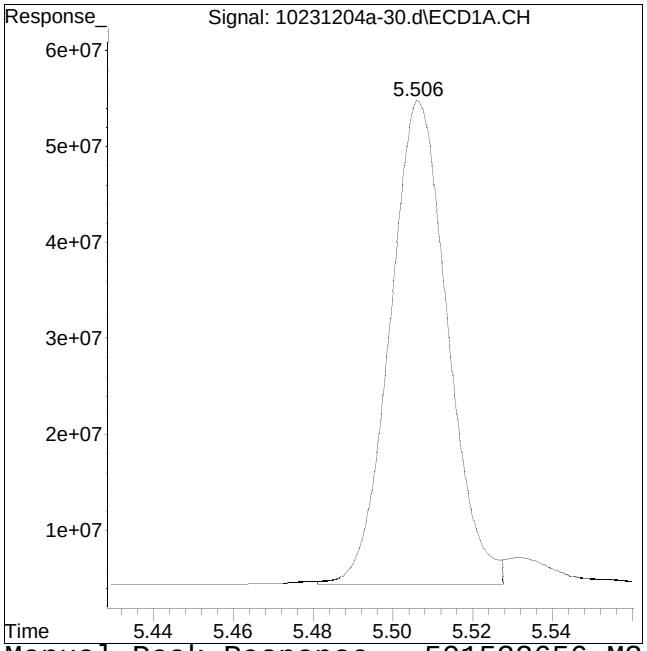
Original Peak Response = 438915594 Manual Peak Response = 424605933 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #26: Endrin Ketone



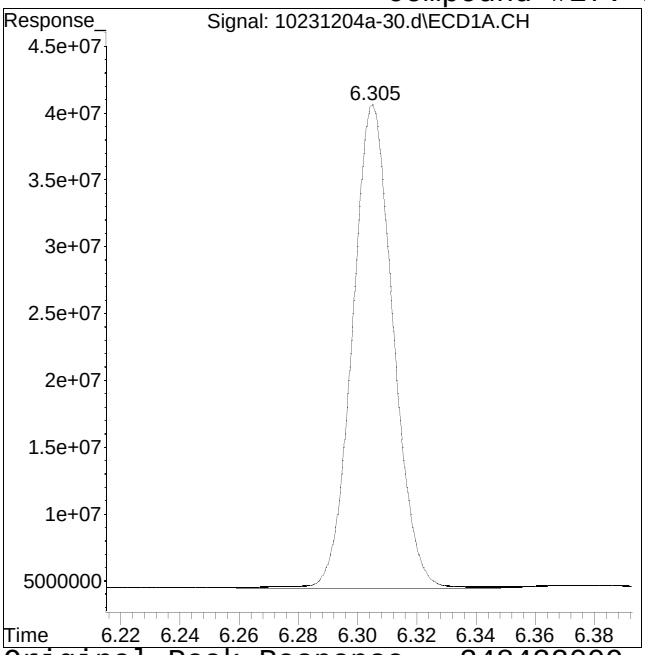


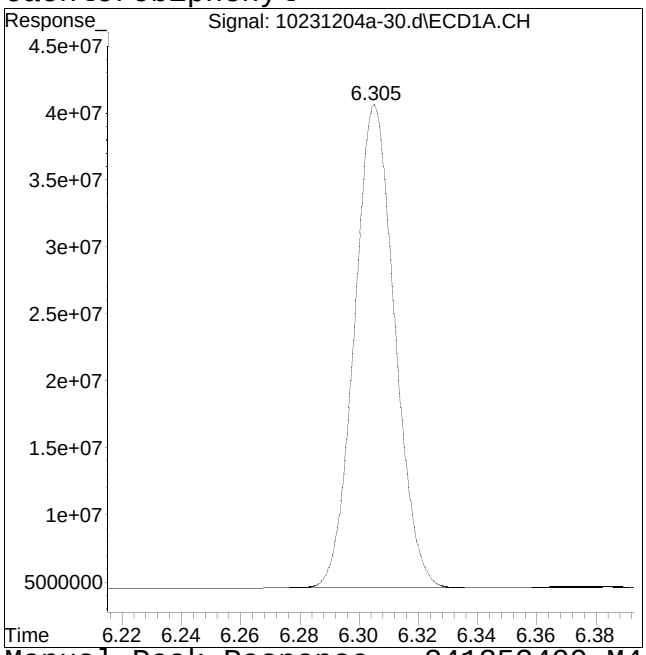
Original Peak Response = 513690956 Manual Peak Response = 501532656 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-30.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:07 pm Instrument : Pest 10
Sample : WG1859016-4,42,, ms Quant Date : 12/4/2023 5:31 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 348432009 Manual Peak Response = 341353499 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:18 pm
Operator : PEST10:mmg
Sample : WG1859016-5,42,, msd
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:42:31 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : LCS_MS - spk only

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards							
1) i	1-br-2-nb_Pe	1.313	1.405	198.9E6	83098024	25.000	25.000
	Standard Area 1 : #1 = 199312348				Recovery =	99.82%	
	Standard Area 1 : #2 = 87020004				Recovery =	95.49%	
System Monitoring Compounds							
2) s	2,4,5,6-Tetr	1.657	1.894	341.7E6	152.3E6	41.099M4	43.996M4
	Spiked Amount	50.000	Range 30 - 150		Recovery =	82.20%	87.99%
27) s	Decachlorobi	6.305	6.976	319.7E6	143.1E6	40.824M4	41.220
	Spiked Amount	50.000	Range 30 - 150		Recovery =	81.65%	82.44%
Target Compounds							
4) t	alpha-BHC	1.971	2.322	499.3E6	226.5E6	44.132M3	44.758
5) t	gamma-BHC (l	2.175	2.614	460.0E6	210.4E6	43.180M4	43.614M4
6) t	beta-BHC	2.230	2.680	251.9E6	98229528	51.118	43.072
7) t	delta-BHC	2.360	2.953	461.0E6	207.7E6	42.311	42.700
8) t	Heptachlor	2.521	3.020	461.8E6	224.2E6	44.382M4	44.218
9) t	Aldrin	2.764	3.346	435.1E6	212.3E6	45.603	45.459
12) t	Heptachlor E	3.312	3.971	421.2E6	210.1E6	44.743	43.600M3
13) t	gamma-Chlord	3.435	4.194	434.8E6	225.1E6	50.662	52.775M3
14) t	alpha-Chlord	3.570	4.360	429.8E6	213.0E6	42.999	44.157M4
15) t	4,4'-DDE	3.666	4.552	431.8E6	210.8E6	46.786	46.959
16) t	Endosulfan I	3.709	4.421	401.9E6	198.0E6	44.332	43.656
17) t	Dieldrin	3.969	4.707	454.4E6	220.8E6	49.122	48.762
18) t	Endrin	4.225	5.000	435.0E6	209.3E6	45.179	44.518M3
19) t	4,4'-DDD	4.333	5.117	373.9E6	183.1E6	49.202	49.513M3
20) t	Endosulfan I	4.466	5.196	393.7E6	191.6E6	44.906M3	43.516M4
21) t	4,4'-DDT	4.626	5.392	392.4E6	194.0E6	45.024M4	45.437
22) t	Endrin Aldeh	4.886	5.489	298.4E6	147.0E6	41.480M4	42.707M4
23) t	Methoxychlor	5.113	5.950	222.0E6	105.2E6	44.321M4	42.538
25) t	Endosulfan S	5.280	5.715	377.5E6	187.9E6	43.975M4	43.728M4

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:18 pm
Operator : PEST10:mmg
Sample : WG1859016-5,42,, msd
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:42:31 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\PEST\Pest10\2023\231204A\10231204a-27.d
Sub List : LCS_MS - spk only

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
26) t Endrin Keton	5.506	6.125	458.2E6	210.0E6	46.812M4	44.729M4
Sum chlordane-1			0	0	N.D.	N.D.
Average chlordane-1					0.000	0.000
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

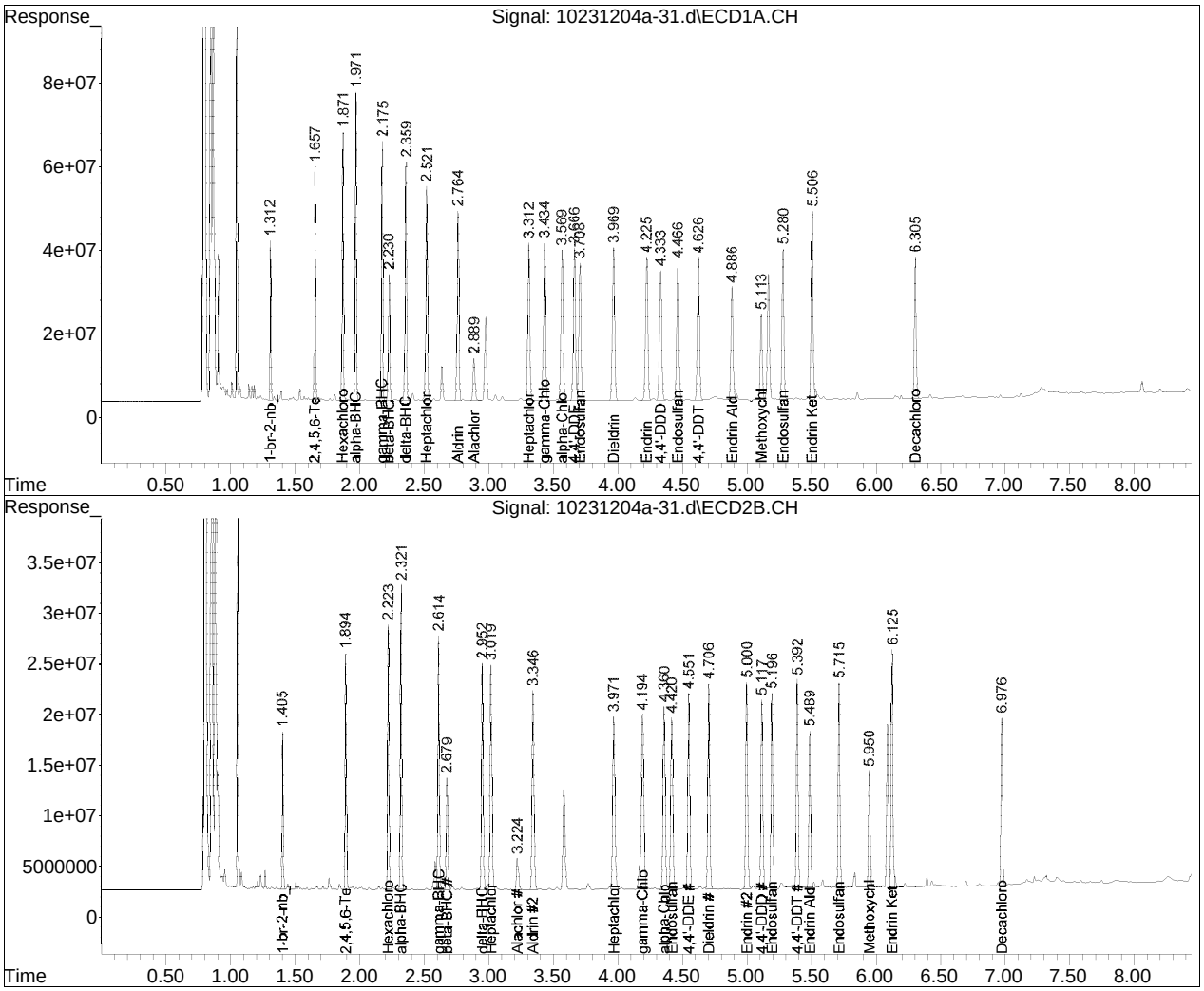
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : LCS_MS - spk only0\2023\231204A\10231204a-27.d••

Data Path : I:\PEST\Pest10\2023\231204A\
Data File : 10231204a-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2023 4:18 pm
Operator : PEST10:mmg
Sample : WG1859016-5,42,, msd
Misc : wg1859447,wg1859016,ical20620
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 13:42:31 2023
Quant Method : I:\PEST\Pest10\2023\231204A\pest10_2023_11_13_ugL_ical20620.m
Quant Title : pest
QLast Update : Mon Dec 04 11:20:48 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

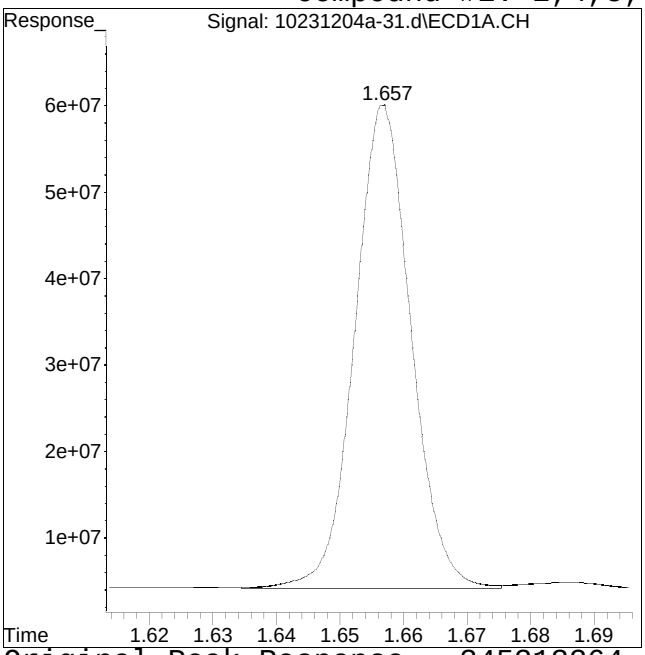
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



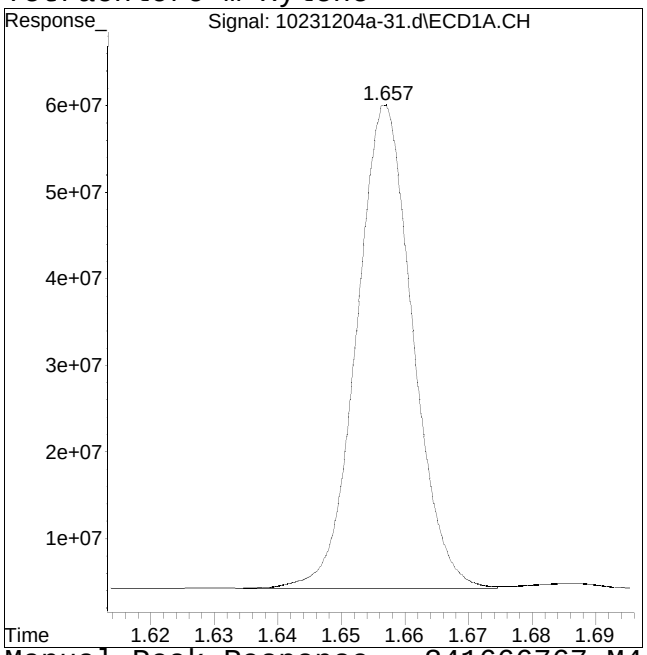
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 345313364



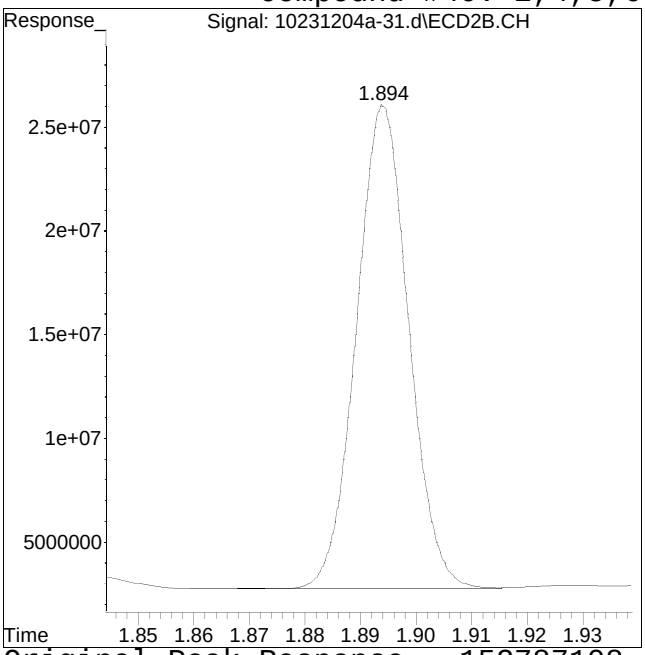
Manual Peak Response = 341666767 M4

M4 = Poor automated baseline construction.

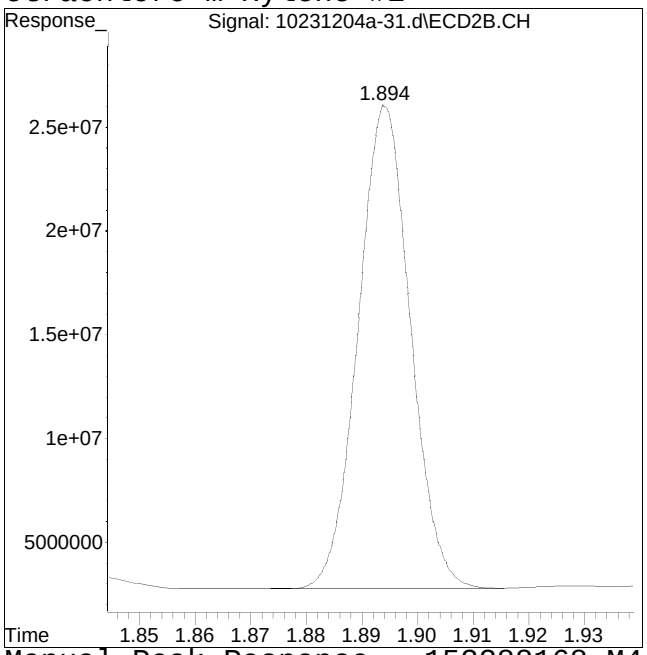
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 152787108



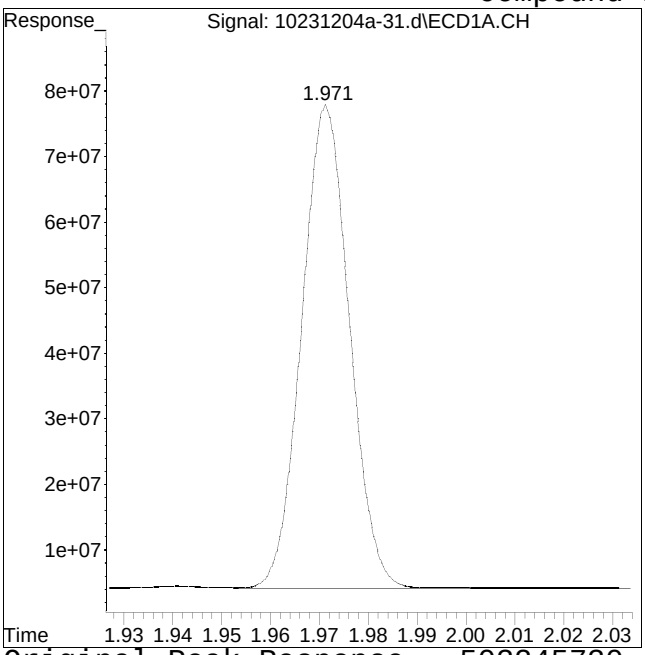
Manual Peak Response = 152288168 M4

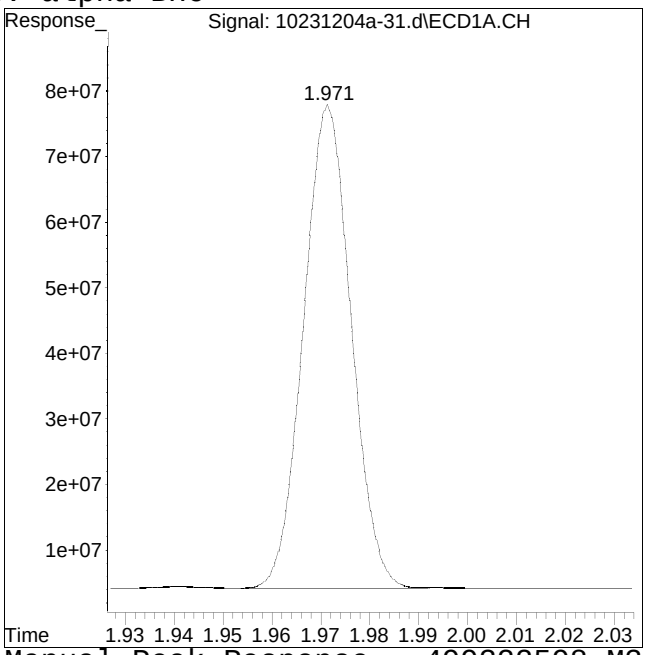
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #4: alpha-BHC



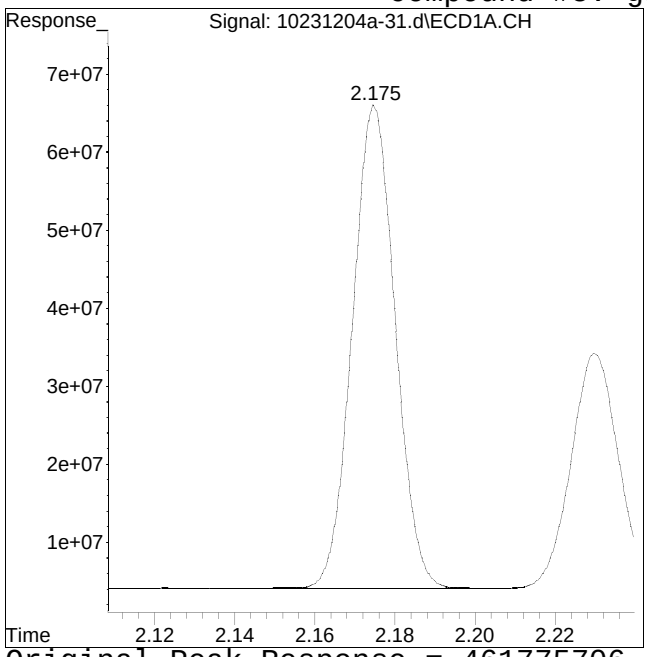


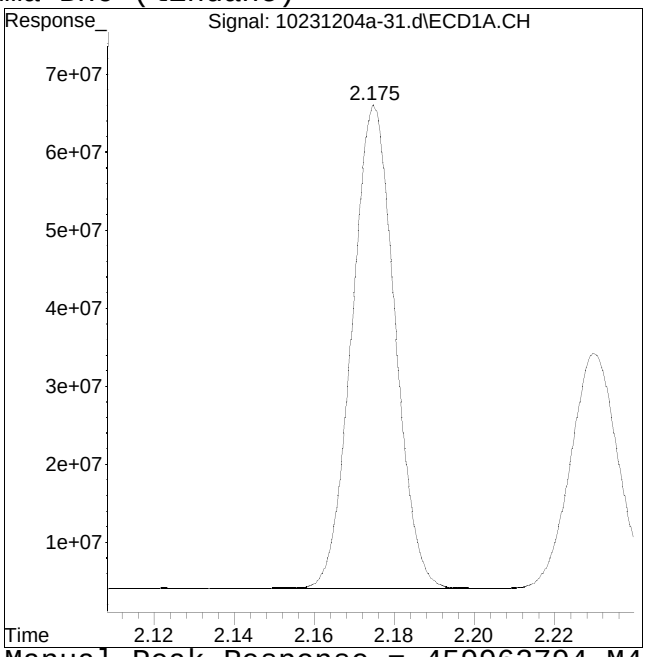
Original Peak Response = 503245730 Manual Peak Response = 499322598 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #5: gamma-BHC (lindane)



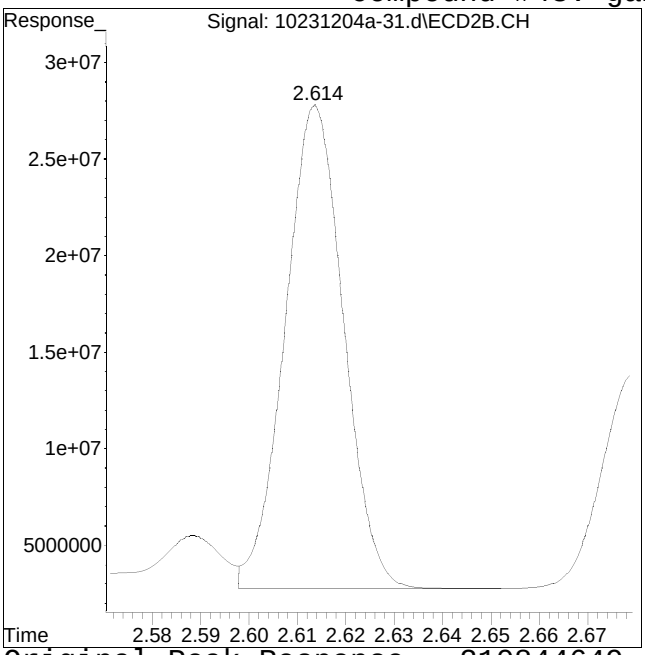


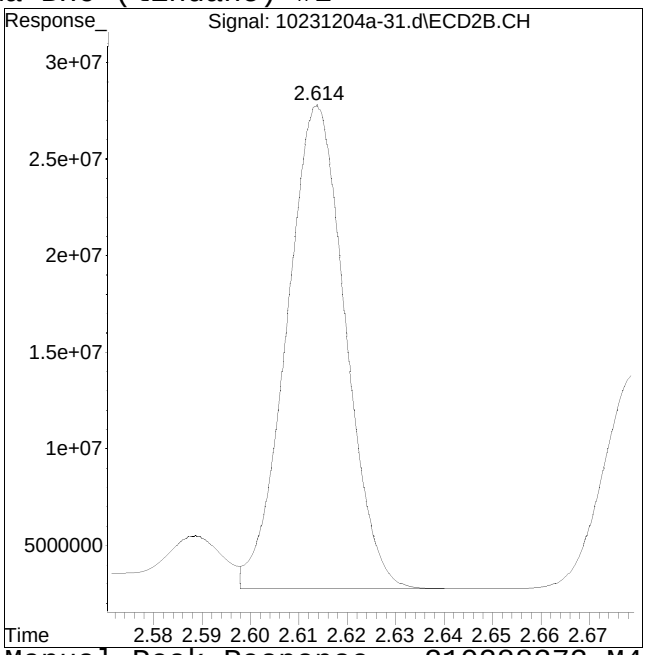
Original Peak Response = 461775706 Manual Peak Response = 459962794 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #43: gamma-BHC (lindane) #2



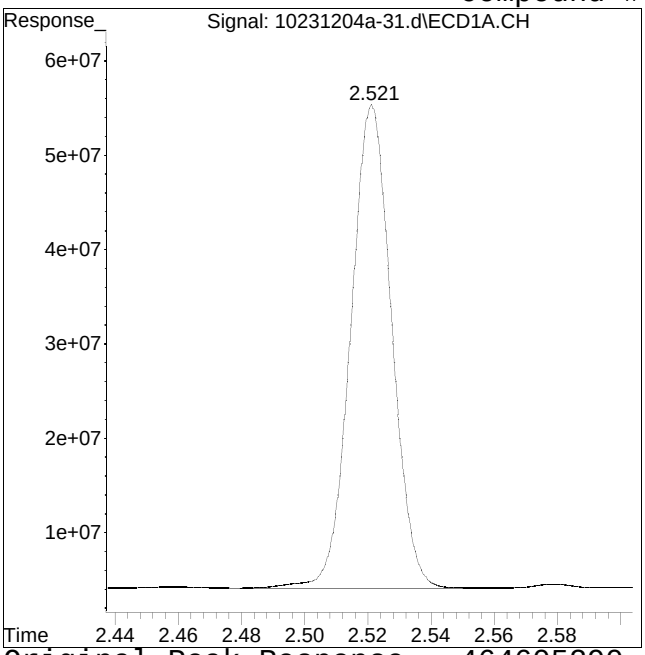


Original Peak Response = 210844649 Manual Peak Response = 210388373 M4
M4 = Poor automated baseline construction.

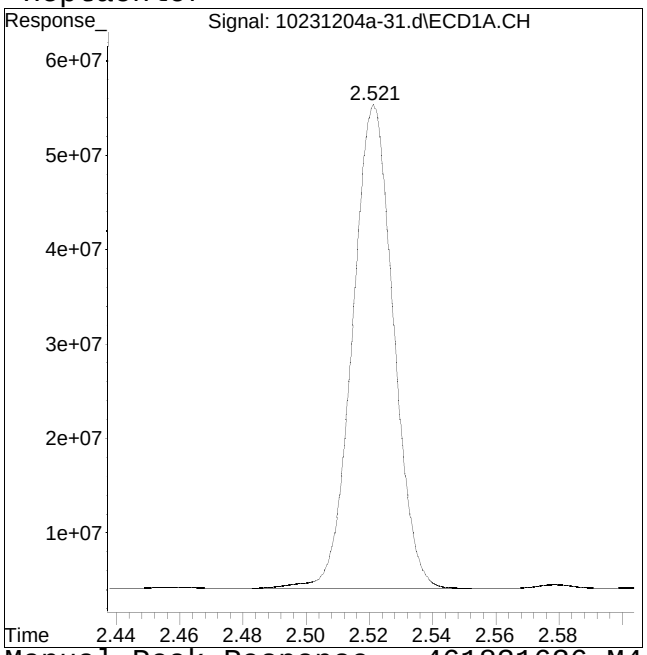
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #8: Heptachlor



Original Peak Response = 464605290



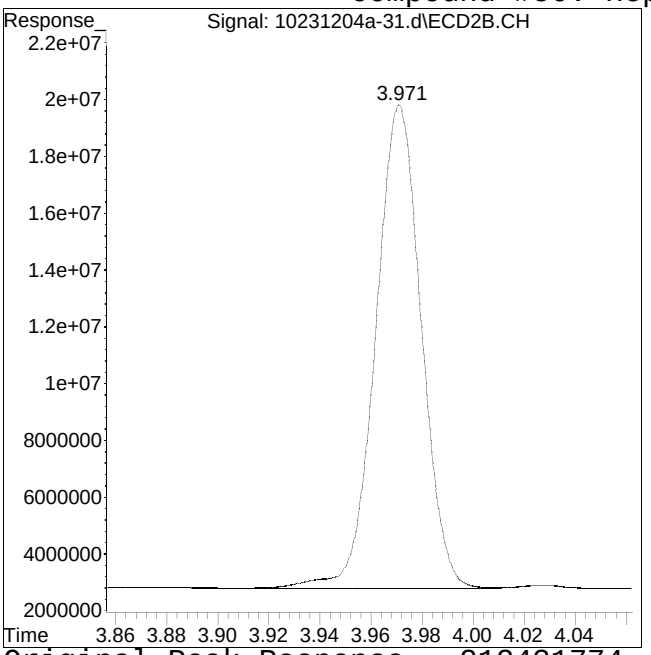
Manual Peak Response = 461831636 M4

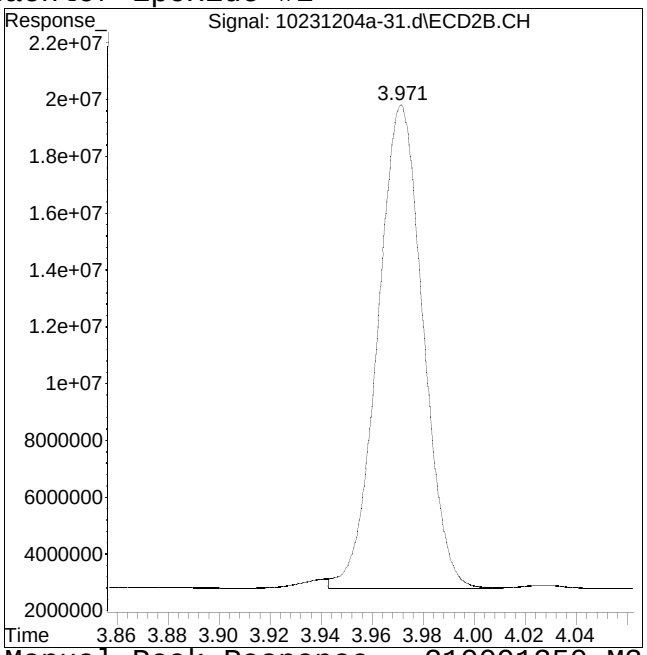
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #50: Heptachlor Epoxide #2



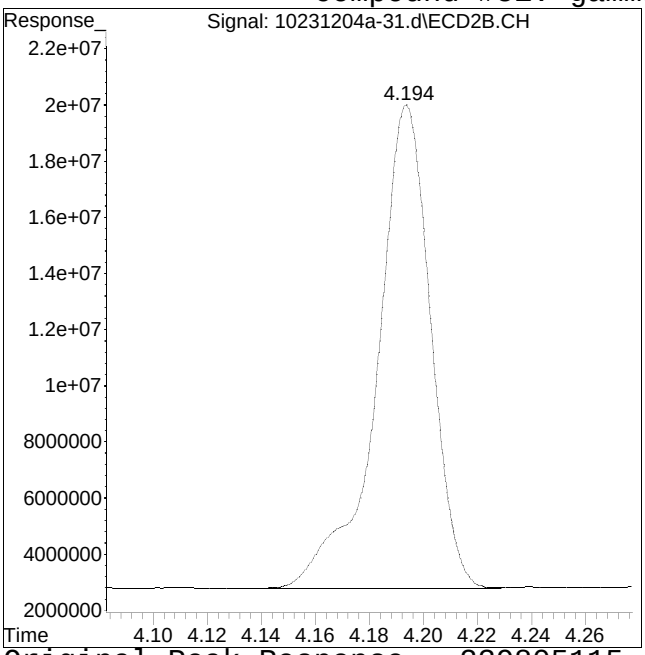


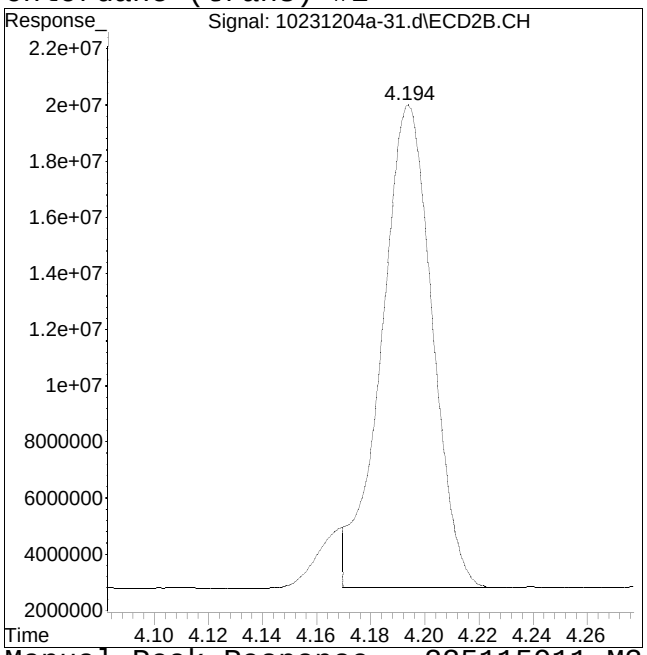
Original Peak Response = 212431774 Manual Peak Response = 210091350 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #51: gamma-Chlordane (trans) #2



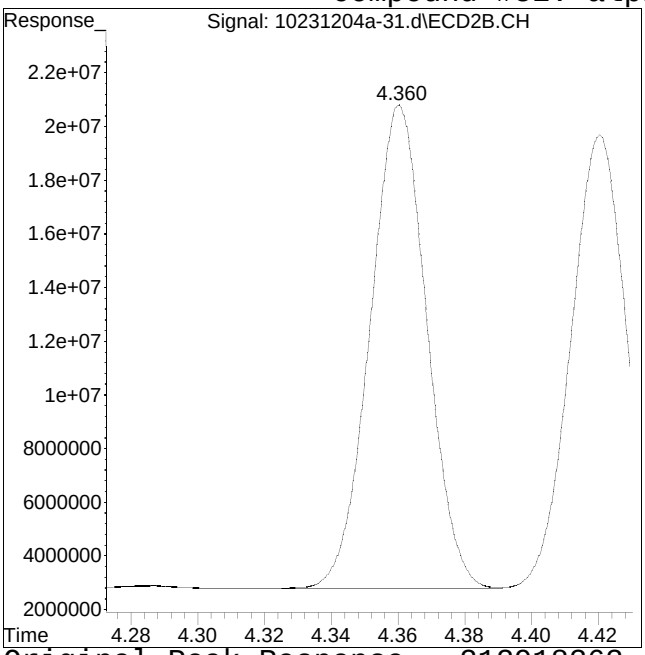


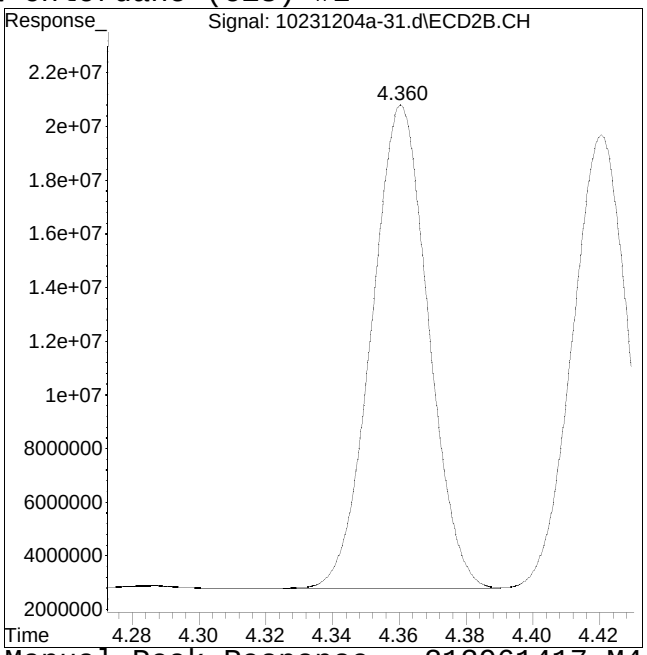
Original Peak Response = 239805115 Manual Peak Response = 225115911 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #52: alpha-Chlordane (cis) #2



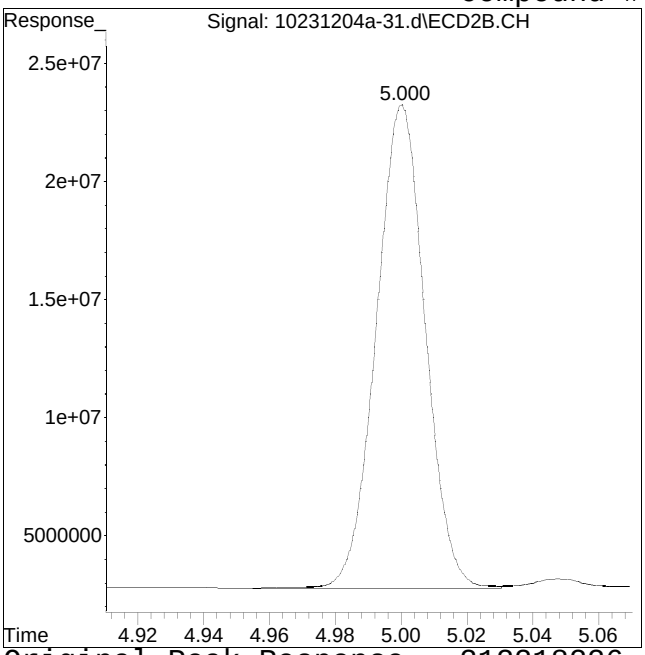


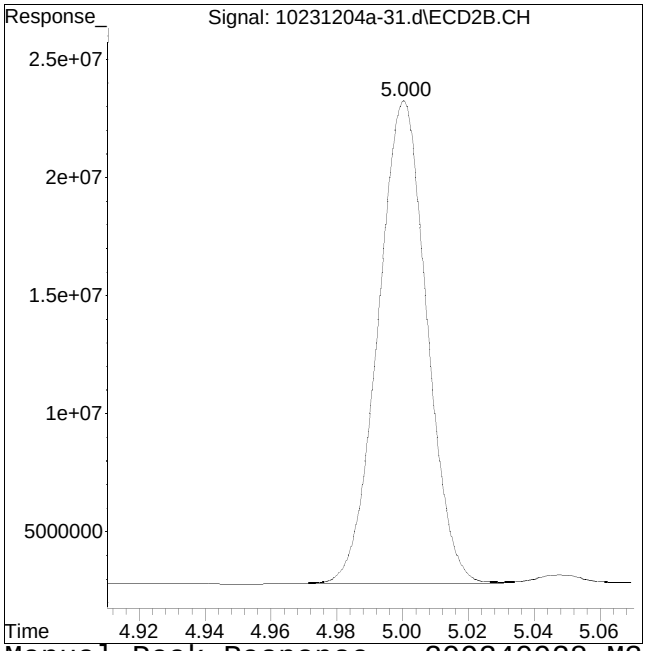
Original Peak Response = 212918363 Manual Peak Response = 212961417 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #56: Endrin #2



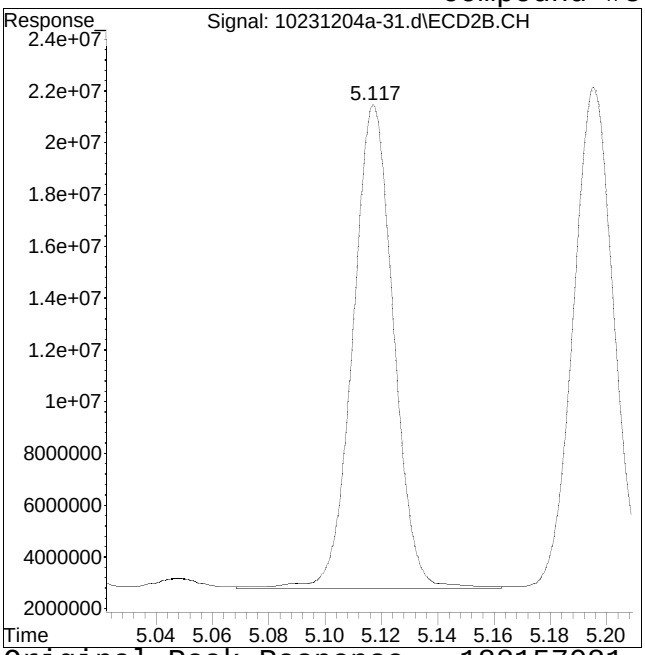


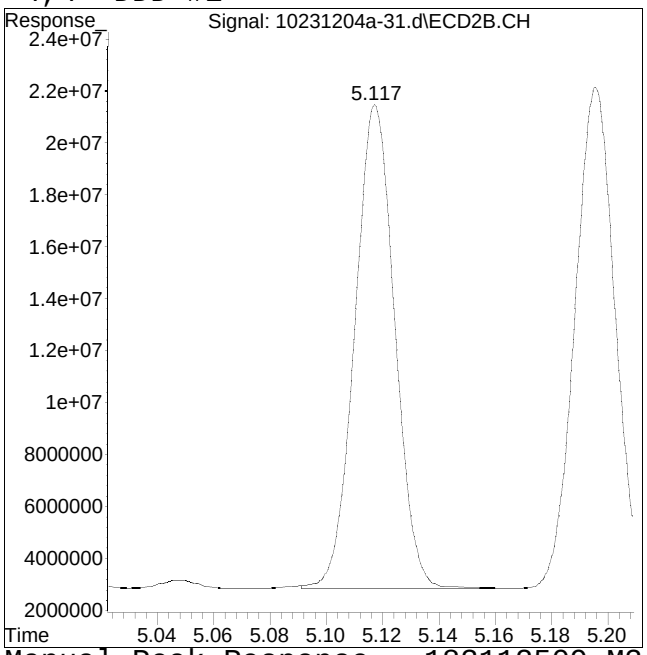
Original Peak Response = 212218226 Manual Peak Response = 209340928 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #57: 4,4'-DDD #2



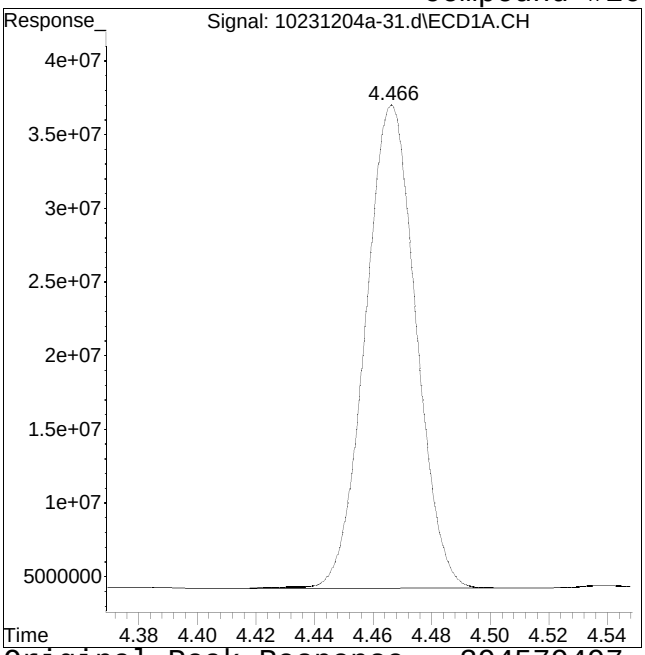


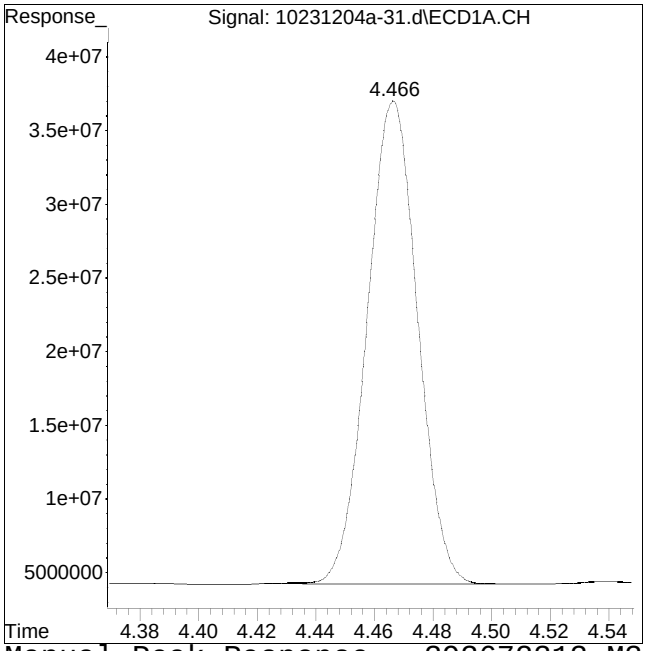
Original Peak Response = 188157081 Manual Peak Response = 183112509 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #20: Endosulfan II



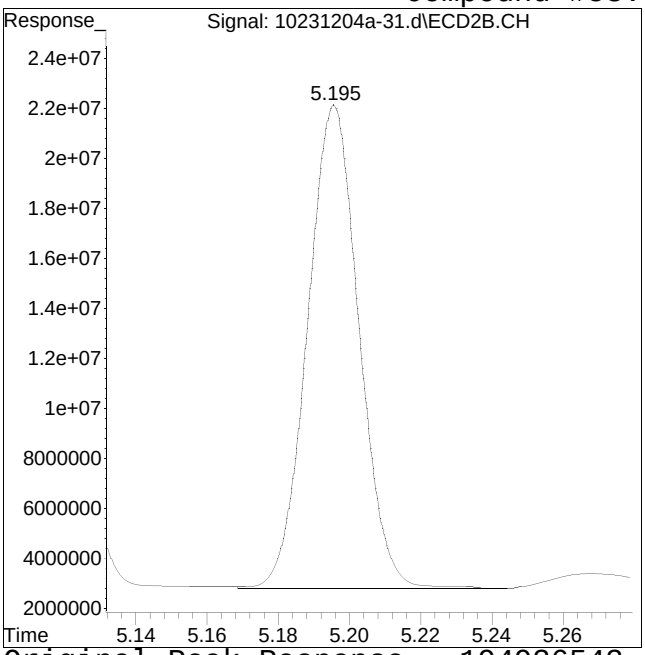


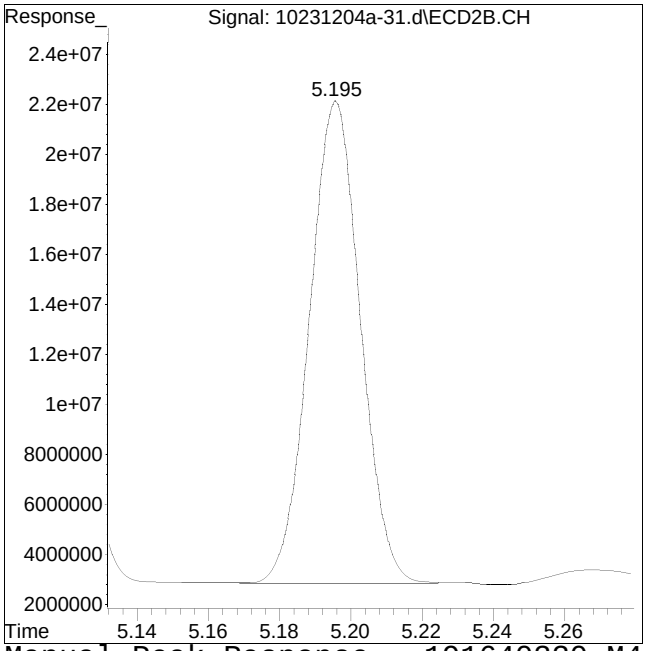
Original Peak Response = 394579497 Manual Peak Response = 393672313 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #58: Endosulfan II #2



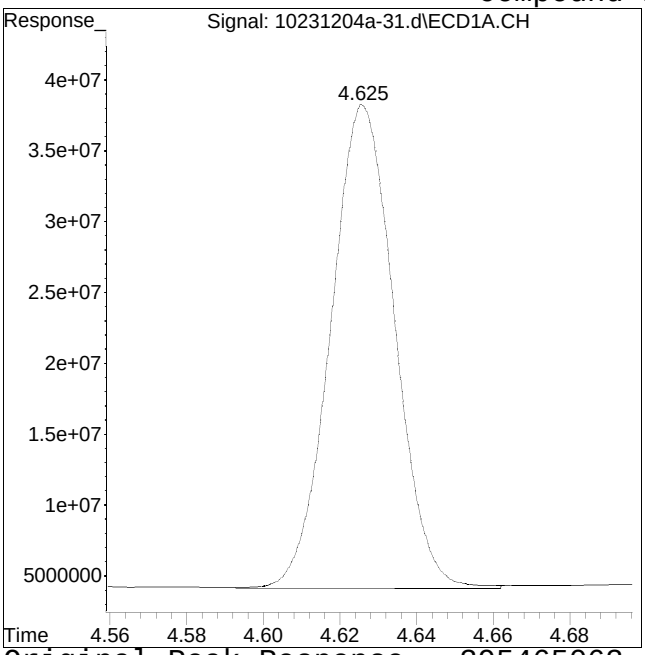


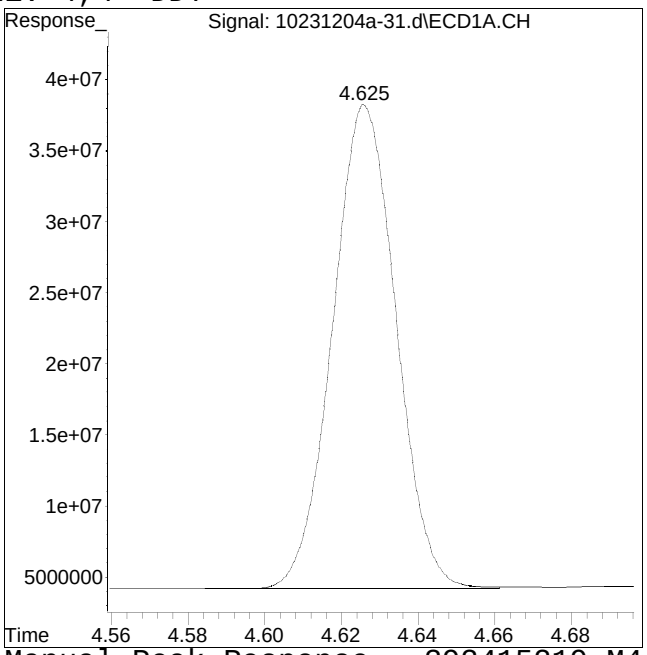
Original Peak Response = 194936543 Manual Peak Response = 191640330 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #21: 4,4'-DDT



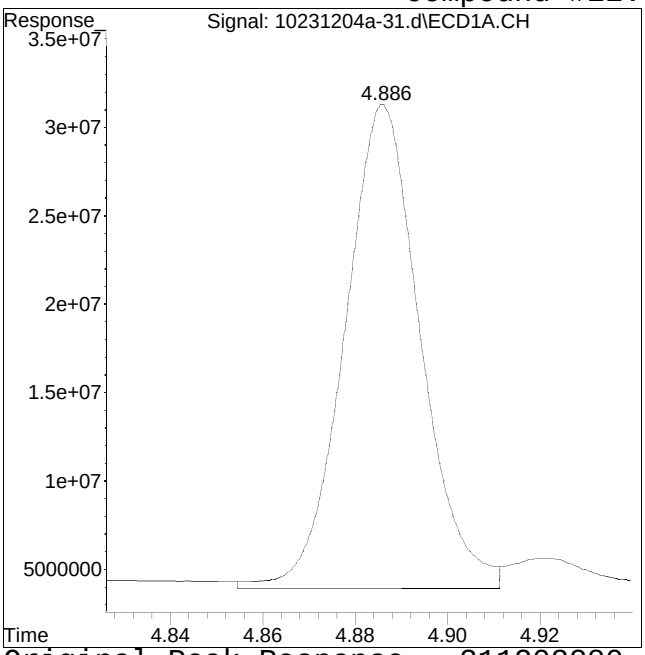


Original Peak Response = 395465063 Manual Peak Response = 392415219 M4
M4 = Poor automated baseline construction.

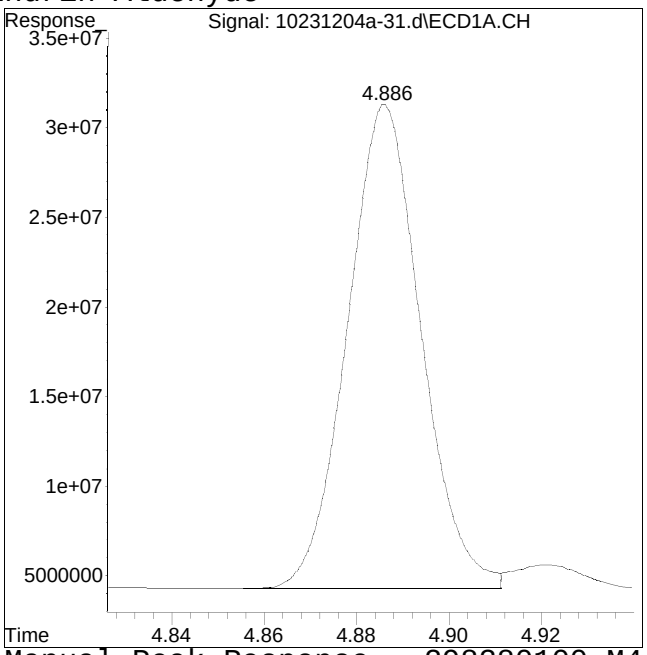
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #22: Endrin Aldehyde



Original Peak Response = 311202280



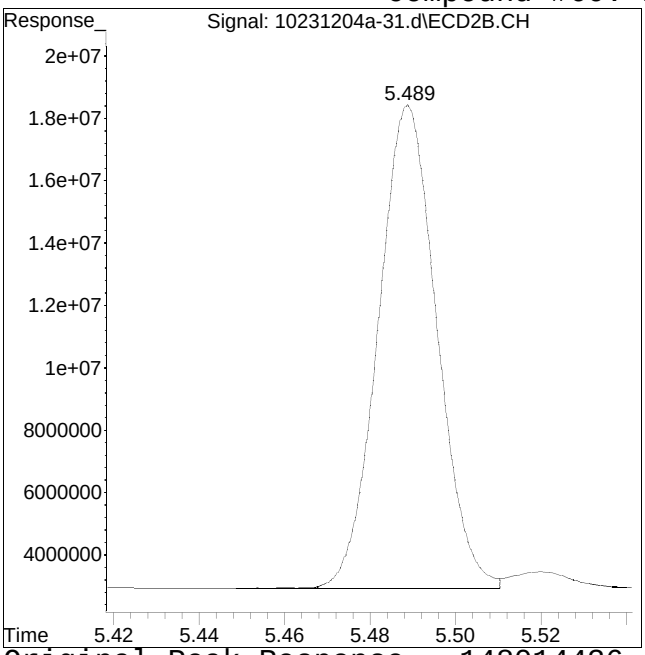
Manual Peak Response = 298380100 M4

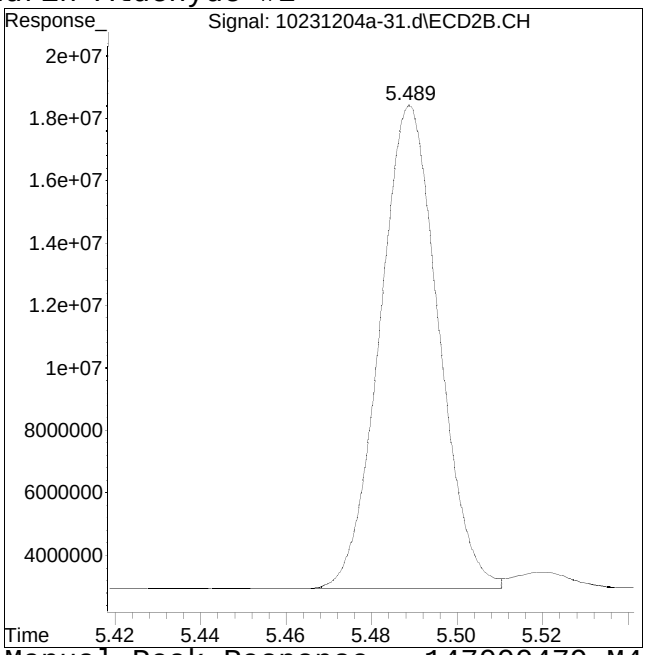
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #60: Endrin Aldehyde #2



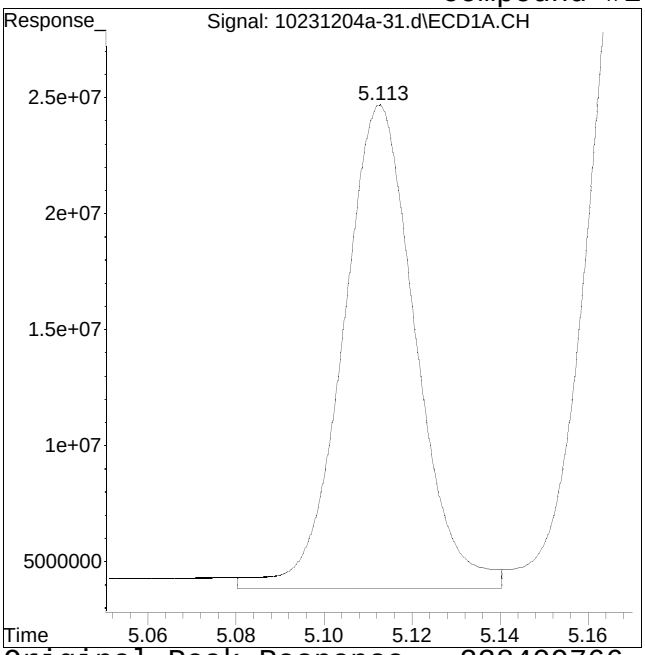


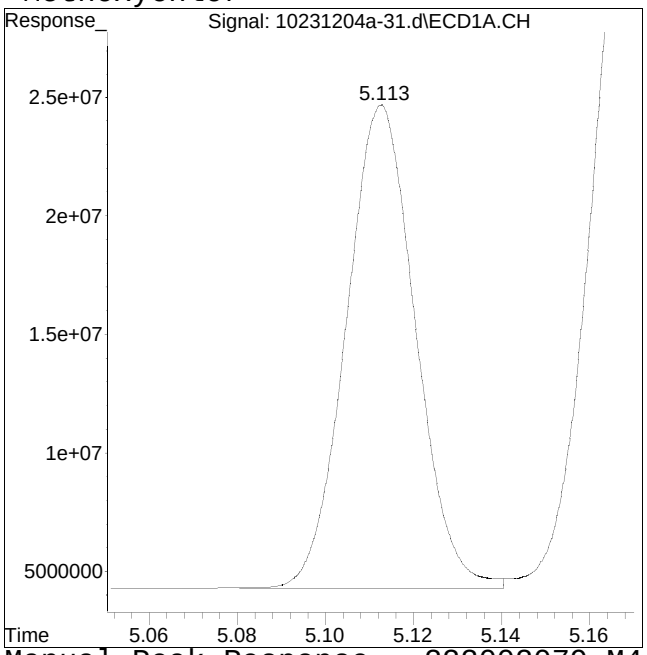
Original Peak Response = 148014436 Manual Peak Response = 147000479 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #23: Methoxychlor



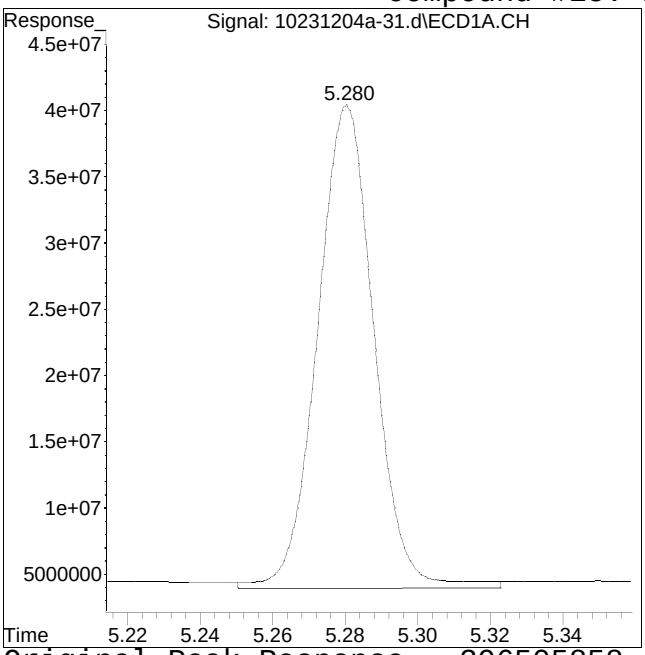


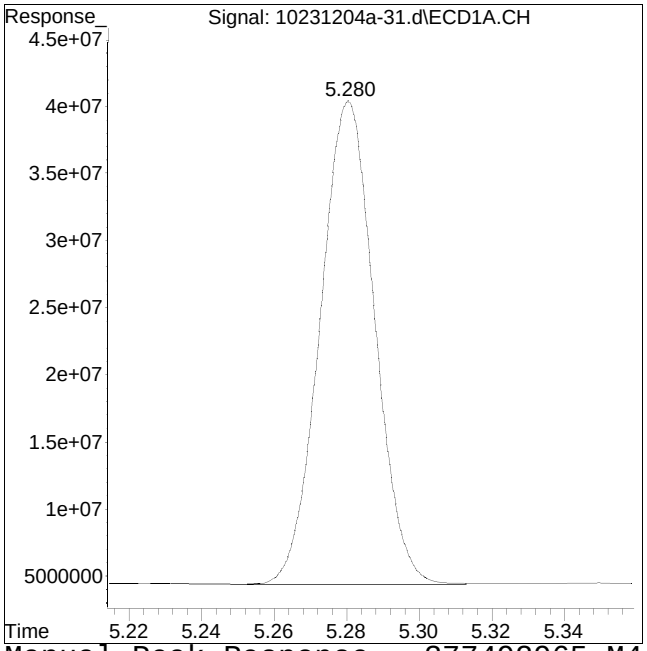
Original Peak Response = 238409766 Manual Peak Response = 222002079 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #25: Endosulfan Sulfate



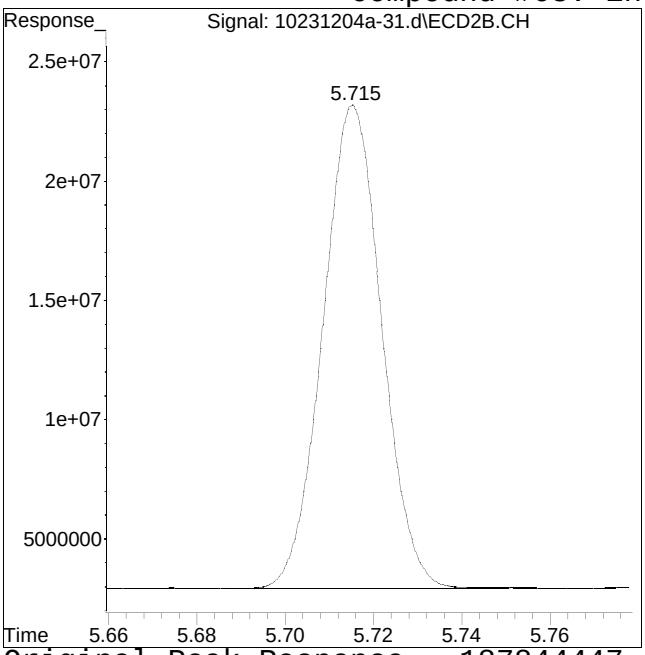


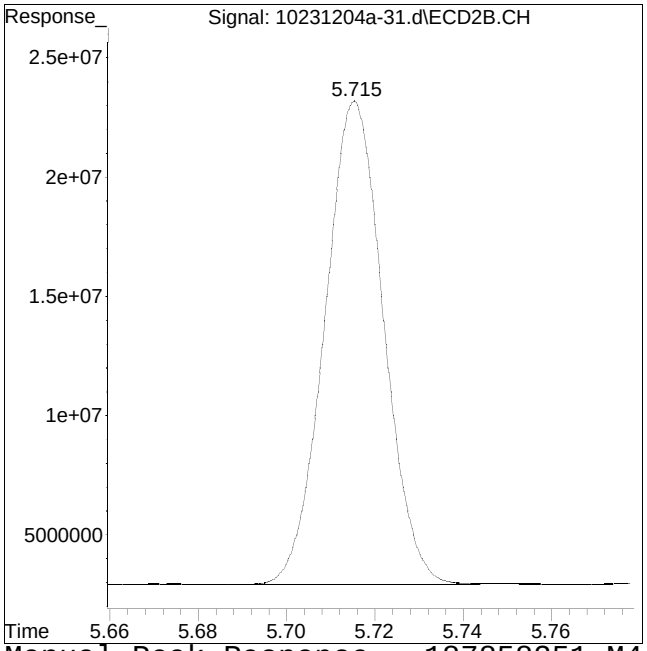
Original Peak Response = 396505858 Manual Peak Response = 377492965 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #63: Endosulfan Sulfate #2



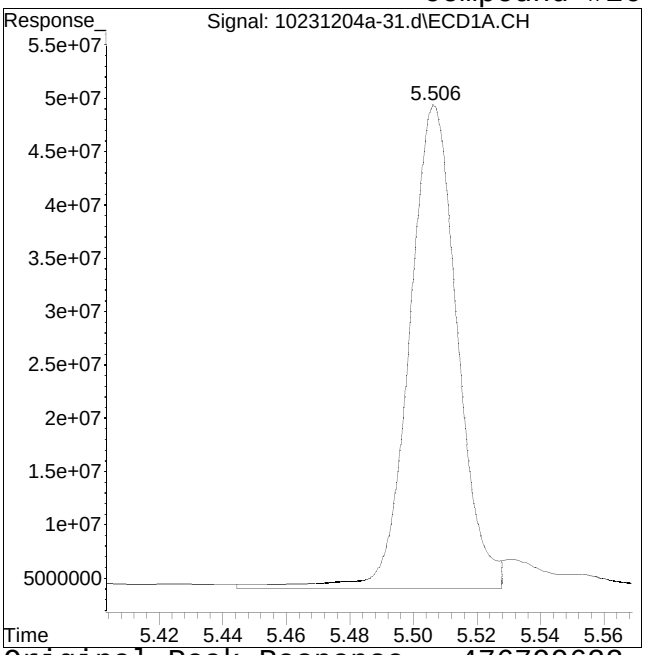


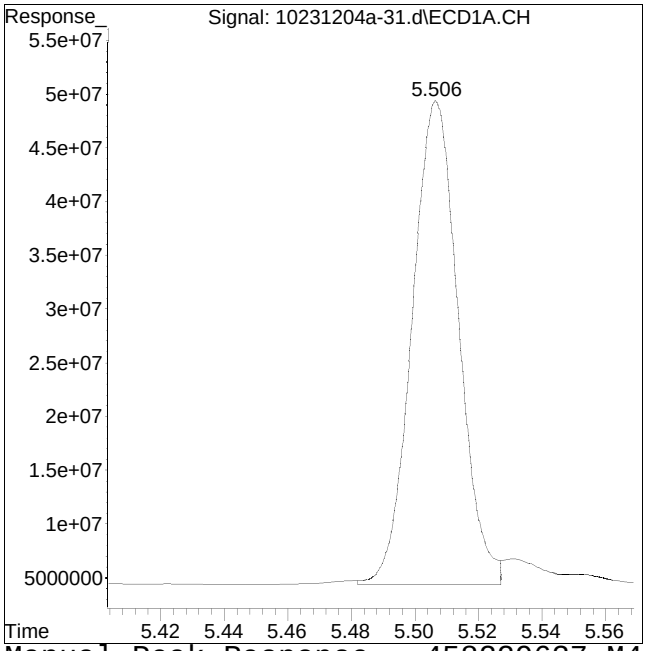
Original Peak Response = 187844447 Manual Peak Response = 187858251 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #26: Endrin Ketone



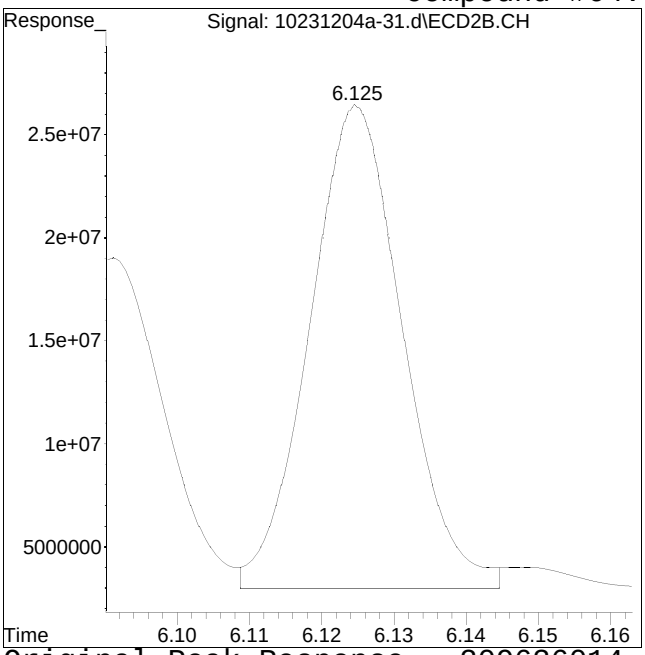


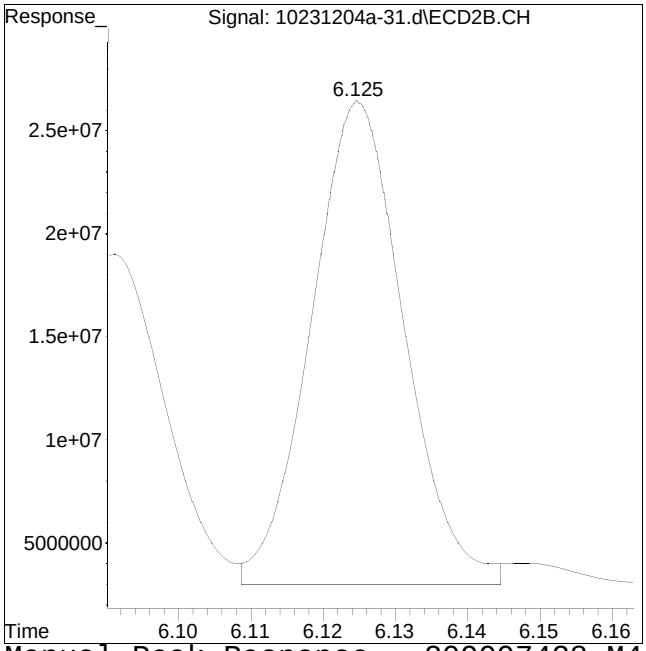
Original Peak Response = 476799622 Manual Peak Response = 458229637 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #64: Endrin Ketone #2



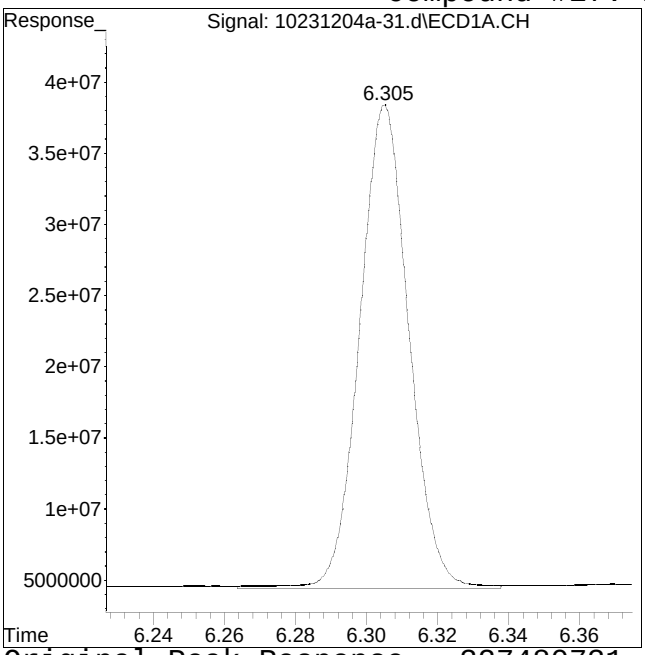


Original Peak Response = 209636014 Manual Peak Response = 209997428 M4
M4 = Poor automated baseline construction.

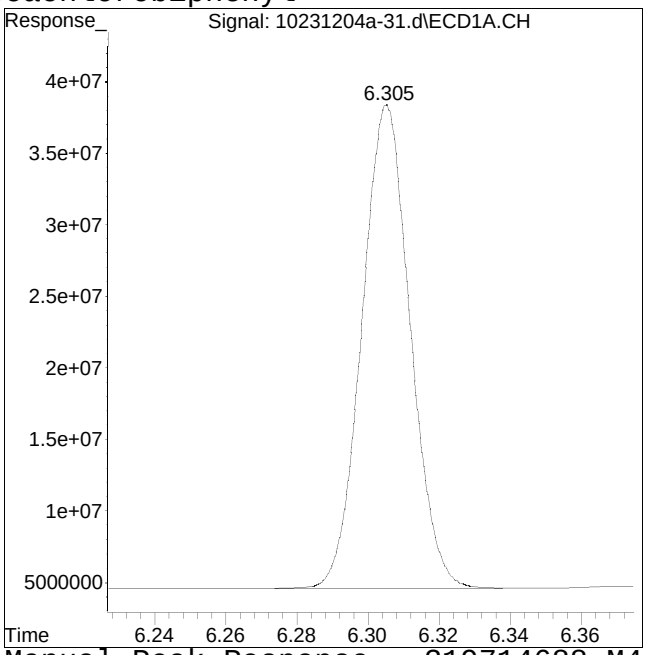
Manual Integration Report

Data Path : I:\PEST\Pest10\2023\231204QMethod : pest10_2023_11_13_ugL_ic
Data File : 10231204a-31.d Operator : PEST10:mmg
Date Inj'd : 12/4/2023 4:18 pm Instrument : Pest 10
Sample : WG1859016-5,42,, msd Quant Date : 12/4/2023 5:31 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 327480731



Manual Peak Response = 319714688 M4

M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Dep.: PEST
Inst: Pest_18
Date: **10/17/23**
Run: **ical**

Method
GC: pest

Seq: WG1842425
IS: pp11313

Vial	Data File	Sample	CCAL	notes	initials
1	18231017i-01	Blank,42e,,pp 11313 --			
2	18231017i-02	pem-01,42e,,pp 11180 --			EJL 10/19
3	18231017i-03	il1pest,42e,,pp 11230 L0.0005			EJL 10/19
4	18231017i-04	il2pest,42e,,pp 11229 L0.001			EJL 10/19
5	18231017i-05	il3pest,42e,,pp 11228 L0.002			EJL 10/19
6	18231017i-06	il4pest,42e,,pp 11227 L0.003			EJL 10/19
7	18231017i-07	il5pest,42e,,pp 11226 L0.004			EJL 10/19
8	18231017i-08	il7pest,42e,,pp 11225 L0.01			EJL 10/19
9	18231017i-09	il8pest,42e,,pp 11224 L0.05			EJL 10/19
10	18231017i-10	il9pest,42e,,pp 11223 L0.1			EJL 10/19
11	18231017i-11	il10pest,42e,,pp 11222 L0.2			EJL 10/19
12	18231017i-12	il11pest,42e,,pp 11221 L0.4			EJL 10/19
13	18231017i-13	cicvpest,42e,,pp 11366 L0.05ICV			EJL 10/19
14	18231017i-14	il3chlor,42e,,pp 11325 L0.01			EJL 10/19
15	18231017i-15	il4chlor,42e,,pp 11324 L0.02			EJL 10/19
16	18231017i-16	il5chlor,42e,,pp 11323 L0.1			EJL 10/19
17	18231017i-17	il7chlor,42e,,pp 11322 L0.5			EJL 10/19
18	18231017i-18	il8chlor,42e,,pp 11321 L1.0			EJL 10/19
19	18231017i-19	il9chlor,42e,,pp 11320 L2.0			EJL 10/19
20	18231017i-20	il10chlor,42e,,pp 11319 L5.0			EJL 10/19
21	18231017i-21	cicvchlor,42e,,pp 11308 L1.0ICV			EJL 10/19
22	18231017i-22	il3tox,42e,,pp 11328 L0.02			EJL 10/19
23	18231017i-23	il8tox,42e,,pp 11327 L2.0			EJL 10/19
24	18231017i-24	il9tox,42e,,pp 11326 L5.0			EJL 10/19
25	18231017i-25	cicvtox,42e,,pp 11211 L2.0ICV			EJL 10/19

Dep.: Pest
Inst: Pest_10
Date: **11/13/23**
Run: **ical**

Method
GC: PEST

Seq: WG1859418
IS: pp11380

Vial	Data File	Sample	CCAL	notes	initials
1	10231113i-01	Blank,42e,,pp 11380 --			
2	10231113i-02	pem-01,42e,,pp 11372 --			EJL 11/14
3	10231113i-03	il1pest,42e,,pp 11406 L0.0005			EJL 11/14
4	10231113i-04	il2pest,42e,,pp 11405 L0.001			EJL 11/14
5	10231113i-05	il3pest,42e,,pp 11404 L0.002			EJL 11/14
6	10231113i-06	il4pest,42e,,pp 11403 L0.003			EJL 11/14
7	10231113i-07	il5pest,42e,,pp 11402 L0.004			EJL 11/14
8	10231113i-08	il7pest,42e,,pp 11401 L0.01			EJL 11/14
9	10231113i-09	il8pest,42e,,pp 11400 L0.05			EJL 11/14
10	10231113i-10	il9pest,42e,,pp 11399 L0.1			EJL 11/14
11	10231113i-11	il10pest,42e,,pp 11398 L0.2			EJL 11/14
12	10231113i-12	il11pest,42e,,pp 11397 L0.4			EJL 11/14
13	10231113i-13	cicvpest,42e,,pp 11375 L0.05ICV			EJL 11/14
14	10231113i-14	il3chlor,42e,,pp 11325 L0.01			EJL 11/14
15	10231113i-15	il4chlor,42e,,pp 11324 L0.02			EJL 11/14
16	10231113i-16	il5chlor,42e,,pp 11323 L0.1			EJL 11/14
17	10231113i-17	il7chlor,42e,,pp 11322 L0.5			EJL 11/14
18	10231113i-18	il8chlor,42e,,pp 11321 L1.0			EJL 11/14
19	10231113i-19	il9chlor,42e,,pp 11320 L2.0			EJL 11/14
20	10231113i-20	il10chlor,42e,,pp 11319 L5.0			EJL 11/14
21	10231113i-21	cicvchlor,42e,,pp 11308 L1.0ICV			EJL 11/14
22	10231113i-22	il3tox,42e,,pp 11328 L0.02			EJL 11/14
23	10231113i-23	il8tox,42e,,pp 11327 L2.0			EJL 11/14
24	10231113i-24	il9tox,42e,,pp 11326 L5.0			EJL 11/14
25	10231113i-25	cicvtox,42e,,pp 11371 L2.0ICV			EJL 11/14

Dep.: PEST
Inst: Pest_18
Date: **12/03/23**
Run: **a**

Method
GC: pest

Seq: wg1859122
IS: pp11313

Vial	Data File	Sample	CCAL	notes		initials
1	18231203a-01	blank				
2	18231203a-02	deg11372	8:20			MMG 12/3
3	18231203a-03	pest11375	a/b: methoxy high, a: end alde, mirex low, b: ddt high			MMG 12/3
4	18231203a-04	chlor11308	15%			MMG 12/3
5	18231203a-05	tox11371	a: IS high, b: 15%			MMG 12/3
6	18231203a-06	blank				
7	18231203a-07	WG1858781-1,42,, 608				MMG 12/4
8	18231203a-08	WG1858781-2,42,, 608				MMG 12/4
9	18231203a-09	L2370050-01,42,, 608				MMG 12/4
10	18231203a-10	L2370415-01,42,, 608		surros low, rc	MMG	
11	18231203a-11	L2369962-02,42,,,R3C 608				
12	18231203a-12	L2349792-102,42,, ns 608				
13	18231203a-13	WG1858781-3,42,, ms 608				
14	18231203a-14	WG1858781-4,42,, msd 608				
15	18231203a-15	WG1858945-1,42,, 979 t		t 29-nov-23 18:10		
16	18231203a-16	WG1858945-2,42,, 979 t		t 29-nov-23 18:10		
17	18231203a-17	WG1858945-3,42,, 979 t		t 29-nov-23 18:10		
18	18231203a-18	L2370203-02,42,, t		t 30-nov-23 23:20		
19	18231203a-19	L2370304-01,42,, t		t 30-nov-23 23:20		
20	18231203a-20	WG1859060-1,42,,				
21	18231203a-21	WG1859060-2,42,,				
22	18231203a-22	WG1859060-3,42,,				
23	18231203a-23	L2370481-01,42,,				
24	18231203a-24	WG1859016-1,42,,				
25	18231203a-25	WG1859016-2,42,,				
26	18231203a-26	WG1859016-3,42,,				
27	18231203a-27	pest11375	a: end alde low			MMG 12/3
28	18231203a-28	blank				
29	18231203a-29	L2371128-14,42,,				
30	18231203a-30	L2371128-15,42,,				
31	18231203a-31	WG1858795-1,42,,				
32	18231203a-32	WG1858795-2,42,,				
33	18231203a-33	WG1858795-3,42,,				
34	18231203a-34	L2371020-01,42,,,R3B				
35	18231203a-35	L2370372-02,42,,			EJL	
36	18231203a-36	L2370372-04,42,,	3/4 surros high, sample ND			
37	18231203a-37	L2370417-01,42,,				
38	18231203a-38	L2370418-01,42,,				
39	18231203a-39	L2370560-03,42,,				
40	18231203a-40	L2370560-04,42,,				
41	18231203a-41	L2370560-05,42,,				
42	18231203a-42	L2370560-06,42,,				
43	18231203a-43	L2370684-01,42,,				
44	18231203a-44	L2370684-05,42,,				
45	18231203a-45	L2370684-09,42,,				

Dep.: PEST
Inst: Pest_18
Date: **12/03/23**
Run: **a**

Method
GC: pest

Seq: wg1859122
IS: pp11313

Vial	Data File	Sample	CCAL	notes		initials
46	18231203a-46	L2370684-13,42,,				
47	18231203a-47	L2370684-17,42,,				
48	18231203a-48	L2370685-01,42,,				
				VF EJL 12/4		

Dep.: Pest
Inst: Pest_10
Date: **12/04/23**
Run: **a**

Method
GC: PEST

Seq: wg1859447
IS: pp11380

Vial	Data File	Sample	CCAL	notes	initials
1	10231204a-01	blank			
2	10231204a-02	deg11372			
3	10231204a-03	pest11375			
4	10231204a-04	chlor11308			
5	10231204a-05	tox11371			
6	10231204a-06	blank			
7	10231204a-07	L2370415-01,42,,	608 rc		
8	10231204a-08	L2336761-47,42,,	LVI LOQ		
9	10231204a-09	WG1844715-1,42,,			
10	10231204a-10	WG1844715-2,42,,			
11	10231204a-11	WG1844715-3,42,,			
12	10231204a-12	WG1844715-4,42,,			
13	10231204a-13	WG1844715-5,42,,			
14	10231204a-14	L2336761-49,42,,	micro LOQ		
15	10231204a-15	L2336761-50,42,,	micro LOQ re		
16	10231204a-16	WG1852762-1,42,,	re		
17	10231204a-17	WG1852762-2,42,,	re		
18	10231204a-18	WG1852762-3,42,,	re		
19	10231204a-19	WG1845205-4,42,,			
20	10231204a-20	WG1845205-5,42,,			
21	10231204a-21	L2336761-51,42,,	sox LOQ		
22	10231204a-22	WG1846535-1,42,,			
23	10231204a-23	WG1846535-2,42,,			
24	10231204a-24	WG1846535-3,42,,			
25	10231204a-25	WG1846535-4,42,,			
26	10231204a-26	WG1846535-5,42,,			
27	10231204a-27	pest11375			
28	10231204a-28	blank			
29	10231204a-29	L2370783-04,42,,	ns		
30	10231204a-30	WG1859016-4,42,,	ms		
31	10231204a-31	WG1859016-5,42,,	msd		
32	10231204a-32	L2370783-06,42,,			
33	10231204a-33	L2370783-07,42,,			
34	10231204a-34	L2370783-08,42,,			
35	10231204a-35	L2370783-09,42,,			
36	10231204a-36	L2370783-11,42,,			
37	10231204a-37	WG1859288-1,42,,	608		
38	10231204a-38	WG1859288-2,42,,	608		
39	10231204a-39	L2370415-01,42,,	608 re		
40	10231204a-40	L2370756-01,42,,	608		
41	10231204a-41	L2370842-01,42,,	608		
42	10231204a-42	L2370975-02,42,,	608		
43	10231204a-43	L2349792-104,42,,	608 ns		

Dep.: Pest
Inst: Pest_10
Date: **12/04/23**
Run: **a**

Method
GC: PEST

Seq: wg1859447
IS: pp11380

Vial	Data File	Sample	CCAL	notes	initials
44	10231204a-44	WG1859288-3,42,,	608 ms		
45	10231204a-45	WG1859288-4,42,,	608 msd		
46	10231204a-46	pest11375			

Dep.: PEST
Inst: Pest_18
Date: **12/04/23**
Run: **b**

Method
GC: pest

Seq: wg1859540
IS: pp11313

Vial	Data File	Sample	CCAL	notes	initials
1	18231204b-01	blank			
2	18231204b-02	deg11372	12:28		AKM 12/4
3	18231204b-03	pest11375	a/b: methoxy high, b: ddt high		AKM 12/4
4	18231204b-04	chlor11308	15%		AKM 12/4
5	18231204b-05	tox11371	20%		AKM 12/4
6	18231204b-06	blank			
7	18231204b-07	L2336761-49,42,,	micro LOQ		
8	18231204b-08	L2336761-50,42,,	micro LOQ re		
9	18231204b-09	WG1852762-1,42,,	re		
10	18231204b-10	WG1852762-2,42,,	re		
11	18231204b-11	WG1852762-3,42,,	re		
12	18231204b-12	WG1845205-4,42,,			
13	18231204b-13	WG1845205-5,42,,			
14	18231204b-14	WG1859163-1,42,,	162		PEG 12/5
15	18231204b-15	WG1859163-2,42,,	162		PEG 12/5
16	18231204b-16	WG1859163-3,42,,	162		PEG 12/5
17	18231204b-17	L2370281-01,42,,			PEG 12/5
18	18231204b-18	L2370774-03,42,,	lan		PEG 12/5
19	18231204b-19	L2371040-02,42,,	rv		PEG 12/5
20	18231204b-20	L2371040-04,42,,	rv		PEG 12/5
21	18231204b-21	L2371040-05,42,,	rv	surros low, re-ex	MMG
22	18231204b-22	L2371040-06,42,,	rv		PEG 12/5
23	18231204b-23	L2370783-01,42,,			PEG 12/5
24	18231204b-24	L2370783-02,42,,			PEG 12/5
25	18231204b-25	L2370783-03,42,,			PEG 12/5
26	18231204b-26	L2370783-05,42,,		VF PEG 12/5	PEG 12/5

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 07 2023, 11:34 am

Work Group: WG1859016 for Department: 2 Organic Preparation

Created: 02-DEC-23 Due: Operator: DDG

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2370783-01	MW-1S	S	NYTCL-8081	WATER	DONE	U	1206	1207	S0	Amber-A.120
L2370783-02	MW-2S	S	NYTCL-8081	WATER	DONE	U	1206	1207	S0	Amber-A.120
L2370783-03	MW-3S	S	NYTCL-8081	WATER	DONE	U	1206	1207	S0	Amber-A.120
L2370783-04	MW-4D	S	NYTCL-8081	WATER	DONE	U	1206	1207	S0	Amber-A.120
L2370783-05	MW-5S	S	NYTCL-8081	WATER	DONE	U	1206	1207	S0	Amber-A.120
L2370783-06	MW-6D	S	NYTCL-8081	WATER	DONE	U	1206	1207	S0	Amber-A.120
L2370783-07	MW-7S	S	NYTCL-8081	WATER	DONE	U	1206	1207	S0	Amber-A.120
L2370783-08	MW-8S	S	NYTCL-8081	WATER	DONE	U	1206	1207	S0	Amber-A.120
L2370783-09	DUP	S	NYTCL-8081	WATER	DONE	U	1206	1207	S0	Amber-A.120
L2370783-11	EB	S	NYTCL-8081	WATER	DONE	U	1206	1207	S0	Amber-A.120
L2371128-07	MW5S	S	NYTCL-8081	WATER	DONE	U	1206	1208	S0	Amber-A.120
L2371128-08	MW5I	S	NYTCL-8081	WATER	DONE	U	1206	1208	S0	Amber-A.120
L2371128-09	MW6	S	NYTCL-8081	WATER	DONE	U	1205	1208	S0	Amber-A.120
L2371128-10	MW7	S	NYTCL-8081	WATER	DONE	U	1205	1208	S0	Amber-A.120
L2371128-11	MW8	S	NYTCL-8081	WATER	DONE	U	1206	1208	S0	Amber-A.120
L2371128-12	MW9S	S	NYTCL-8081	WATER	DONE	U	1206	1208	S0	Amber-A.120
L2371128-13	MW9I	S	NYTCL-8081	WATER	DONE	U	1206	1208	S0	Amber-A.120
L2371128-14	MW10	S	NYTCL-8081	WATER	DONE	U	1206	1208	S0	Amber-A.120
L2371128-15	MW11	S	NYTCL-8081	WATER	DONE	U	1206	1208	S0	Amber-A.120
WG1859016-1	Laboratory Method Bl	S	NYTCL-8081	WATER	DONE	U				
WG1859016-2	Laboratory Control S	S	NYTCL-8081	WATER	DONE	U				
WG1859016-3	LCS Duplicate	S	NYTCL-8081	WATER	DONE	U				
WG1859016-4	Matrix Spike	S	NYTCL-8081	WATER	DONE	U				
WG1859016-5	Matrix Spike Duplica	S	NYTCL-8081	WATER	DONE	U				
WG1859016-6	Matrix Spike	S	NYTCL-8081	WATER	DONE	U				
WG1859016-7	Matrix Spike Duplica	S	NYTCL-8081	WATER	DONE	U				

Comments:

WG1859016-3	WG1859016-2
WG1859016-4	L2370783-04
WG1859016-5	L2370783-04
WG1859016-6	L2371128-08
WG1859016-7	L2371128-08

ORGANIC ELN REPORT

Workgroup: WG1859016

Prep Method: EPA 3510C
Solvent Type: DCM — **Lot #:** EH486
Surrogate Type: Pesticide/PCB — **Lot #:** pp11333c-040924,
Spike Type: Pesticide — **Lot #:** PP11415a-052924,
Spike Verify by: IYM
Lims Spikelot: PEST_LVI

Additional Reagents/Stds

Na2SO4	23F1561004

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: EH513

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2370783-01 WATER	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2370783-02 WATER	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2370783-03 WATER	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2370783-04 WATER	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2370783-05 WATER	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2370783-06 WATER	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1

Reported: 07-DEC-23 11:34 AM

ORGANIC ELN REPORT

Workgroup: WG1859016

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2370783-07 WATER	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2370783-08 WATER	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2370783-09 WATER	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2370783-11 WATER	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2371128-07 WATER	12/02/23 18:09	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2371128-08 WATER	12/02/23 18:09	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2371128-09 WATER	12/02/23 18:09	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2371128-10 WATER	12/02/23 18:09	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1

Reported: 07-DEC-23 11:34 AM

ORGANIC ELN REPORT

Workgroup: WG1859016

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
L2371128-11 WATER	12/02/23 18:10	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2371128-12 WATER	12/02/23 18:10	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2371128-13 WATER	12/02/23 18:10	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2371128-14 WATER	12/02/23 18:10	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
L2371128-15 WATER	12/02/23 18:10	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
WG1859016-1 BLANK	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25		12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
WG1859016-2 LCS	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25	.25	12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
WG1859016-3 LCSD	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25	.25	12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1

ORGANIC ELN REPORT

Workgroup: WG1859016

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol **ml**	Ph	Surr Amt **ml**	Spike Amt **ml**	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1859016-4 MS	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25	.25	12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
WG1859016-5 MSD	12/02/23 15:36	Daniel Gyedu	140	>5,<9	.25	.25	12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
WG1859016-6 MS	12/02/23 18:09	Daniel Gyedu	140	>5,<9	.25	.25	12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1
WG1859016-7 MSD	12/02/23 18:09	Daniel Gyedu	140	>5,<9	.25	.25	12/03/23 02:00	Rabbi Kyei-Baffour	1	D/A,#1

Metals

Inorganic Data
(ICPMS Analysis)

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-01	Date Collected	: 11/29/23 12:40
Client ID	: MW-1S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 13:05
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1859763.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/05/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.0869	0.0100	0.00327	
7440-36-0	Antimony, Total	0.00080	0.00400	0.00042	J
7440-38-2	Arsenic, Total	0.00364	0.00050	0.00016	
7440-39-3	Barium, Total	0.02002	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	63.4	0.100	0.0394	
7440-47-3	Chromium, Total	0.00026	0.00100	0.00017	J
7440-48-4	Cobalt, Total	0.00046	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00185	0.00100	0.00038	
7439-89-6	Iron, Total	0.347	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	0.609	0.0700	0.0242	
7439-96-5	Manganese, Total	0.2585	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00326	0.00200	0.00055	
7440-09-7	Potassium, Total	21.1	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	49.4	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	0.00431	0.00500	0.00157	J
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-02	Date Collected	: 11/29/23 11:10
Client ID	: MW-2S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 13:10
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1859763.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/05/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.00459	0.0100	0.00327	J
7440-36-0	Antimony, Total	0.00054	0.00400	0.00042	J
7440-38-2	Arsenic, Total	0.00029	0.00050	0.00016	J
7440-39-3	Barium, Total	0.02985	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	53.6	0.100	0.0394	
7440-47-3	Chromium, Total	0.00203	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00031	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00113	0.00100	0.00038	
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	4.89	0.0700	0.0242	
7439-96-5	Manganese, Total	ND	0.00100	0.00044	U
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	14.8	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	4.94	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-03	Date Collected	: 11/29/23 09:30
Client ID	: MW-3S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 13:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1859763.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/05/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	ND	0.0100	0.00327	U
7440-36-0	Antimony, Total	0.00045	0.00400	0.00042	J
7440-38-2	Arsenic, Total	0.00034	0.00050	0.00016	J
7440-39-3	Barium, Total	0.05002	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	51.2	0.100	0.0394	
7440-47-3	Chromium, Total	0.00073	0.00100	0.00017	J
7440-48-4	Cobalt, Total	0.00045	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00064	0.00100	0.00038	J
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	3.97	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00248	0.00100	0.00044	
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	12.7	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	15.7	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-04	Date Collected	: 11/29/23 14:00
Client ID	: MW-4D	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 12:12
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1859763.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/05/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.394	0.0100	0.00327	
7440-36-0	Antimony, Total	0.00101	0.00400	0.00042	J
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	0.05873	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	18.0	0.100	0.0394	
7440-47-3	Chromium, Total	0.00469	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00040	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00094	0.00100	0.00038	J
7439-89-6	Iron, Total	0.452	0.0500	0.0191	
7439-92-1	Lead, Total	0.00077	0.00100	0.00034	J
7439-95-4	Magnesium, Total	11.2	0.0700	0.0242	
7439-96-5	Manganese, Total	0.03018	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00272	0.00200	0.00055	
7440-09-7	Potassium, Total	1.35	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	53.1	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-05	Date Collected	: 11/29/23 15:30
Client ID	: MW-5S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 13:19
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1859763.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/05/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.00986	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00037	0.00050	0.00016	J
7440-39-3	Barium, Total	0.01326	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	20.0	0.100	0.0394	
7440-47-3	Chromium, Total	0.00070	0.00100	0.00017	J
7440-48-4	Cobalt, Total	0.00019	0.00050	0.00016	J
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	0.0217	0.0500	0.0191	J
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	3.91	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00258	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00085	0.00200	0.00055	J
7440-09-7	Potassium, Total	3.18	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	9.58	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-06	Date Collected	: 11/29/23 10:08
Client ID	: MW-6D	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 13:34
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1859763.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/05/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.314	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00060	0.00050	0.00016	
7440-39-3	Barium, Total	0.08737	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	84.0	0.100	0.0394	
7440-47-3	Chromium, Total	0.00200	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00051	0.00050	0.00016	
7440-50-8	Copper, Total	0.00147	0.00100	0.00038	
7439-89-6	Iron, Total	0.651	0.0500	0.0191	
7439-92-1	Lead, Total	0.00047	0.00100	0.00034	J
7439-95-4	Magnesium, Total	22.5	0.0700	0.0242	
7439-96-5	Manganese, Total	2.975	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00151	0.00200	0.00055	J
7440-09-7	Potassium, Total	38.5	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	28.2	0.100	0.0293	
7440-28-0	Thallium, Total	0.00022	0.00100	0.00014	J
7440-62-2	Vanadium, Total	0.00165	0.00500	0.00157	J
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-07	Date Collected	: 11/29/23 11:38
Client ID	: MW-7S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 13:38
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1859763.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/05/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.0222	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00038	0.00050	0.00016	J
7440-39-3	Barium, Total	0.08186	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	105.	0.100	0.0394	
7440-47-3	Chromium, Total	0.00147	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00044	0.00050	0.00016	J
7440-50-8	Copper, Total	0.00163	0.00100	0.00038	
7439-89-6	Iron, Total	0.0633	0.0500	0.0191	
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	12.9	0.0700	0.0242	
7439-96-5	Manganese, Total	0.2632	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00137	0.00200	0.00055	J
7440-09-7	Potassium, Total	12.1	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	22.5	0.100	0.0293	
7440-28-0	Thallium, Total	0.00043	0.00100	0.00014	J
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-08	Date Collected	: 11/29/23 16:40
Client ID	: MW-8S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 13:43
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1859763.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/05/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.214	0.0100	0.00327	
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00081	0.00050	0.00016	
7440-39-3	Barium, Total	0.04147	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	18.6	0.100	0.0394	
7440-47-3	Chromium, Total	0.00484	0.00100	0.00017	
7440-48-4	Cobalt, Total	0.00061	0.00050	0.00016	
7440-50-8	Copper, Total	0.00414	0.00100	0.00038	
7439-89-6	Iron, Total	0.523	0.0500	0.0191	
7439-92-1	Lead, Total	0.00063	0.00100	0.00034	J
7439-95-4	Magnesium, Total	2.37	0.0700	0.0242	
7439-96-5	Manganese, Total	0.04520	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00373	0.00200	0.00055	
7440-09-7	Potassium, Total	36.4	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	10.7	0.100	0.0293	
7440-28-0	Thallium, Total	0.00023	0.00100	0.00014	J
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-09	Date Collected	: 11/29/23 00:00
Client ID	: DUP	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 13:48
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1859763.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/05/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	0.00875	0.0100	0.00327	J
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	0.00035	0.00050	0.00016	J
7440-39-3	Barium, Total	0.01283	0.00050	0.00017	
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	19.6	0.100	0.0394	
7440-47-3	Chromium, Total	0.00063	0.00100	0.00017	J
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	3.82	0.0700	0.0242	
7439-96-5	Manganese, Total	0.00192	0.00100	0.00044	
7440-02-0	Nickel, Total	0.00083	0.00200	0.00055	J
7440-09-7	Potassium, Total	3.06	0.100	0.0309	
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	9.54	0.100	0.0293	
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-11	Date Collected	: 11/29/23 08:45
Client ID	: EB	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/05/23 12:37
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1859763.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/05/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	ND	0.0100	0.00327	U
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	0.0521	0.100	0.0394	J
7440-47-3	Chromium, Total	0.00018	0.00100	0.00017	J
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	ND	0.0700	0.0242	U
7439-96-5	Manganese, Total	ND	0.00100	0.00044	U
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	ND	0.100	0.0309	U
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	0.0304	0.100	0.0293	J
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: WG1859770-1	Date Collected	: NA
Client ID	: WG1859770-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/05/23 11:37
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1859763.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/05/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	ND	0.0100	0.00327	U
7440-36-0	Antimony, Total	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Total	ND	0.00050	0.00016	U
7440-39-3	Barium, Total	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Total	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Total	ND	0.00020	0.00005	U
7440-70-2	Calcium, Total	ND	0.100	0.0394	U
7440-47-3	Chromium, Total	ND	0.00100	0.00017	U
7440-48-4	Cobalt, Total	ND	0.00050	0.00016	U
7440-50-8	Copper, Total	ND	0.00100	0.00038	U
7439-89-6	Iron, Total	ND	0.0500	0.0191	U
7439-92-1	Lead, Total	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Total	ND	0.0700	0.0242	U
7439-96-5	Manganese, Total	ND	0.00100	0.00044	U
7440-02-0	Nickel, Total	ND	0.00200	0.00055	U
7440-09-7	Potassium, Total	ND	0.100	0.0309	U
7782-49-2	Selenium, Total	ND	0.00500	0.00173	U
7440-22-4	Silver, Total	ND	0.00040	0.00016	U
7440-23-5	Sodium, Total	ND	0.100	0.0293	U
7440-28-0	Thallium, Total	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Total	ND	0.00500	0.00157	U
7440-66-6	Zinc, Total	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859770-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 12/05/23 12:07
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1859763.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7429-90-5	Aluminum, Total	0.343	0.0500	0.016	
7440-39-3	Barium, Total	0.05862	0.00250	0.0009	
7440-70-2	Calcium, Total	17.1	0.500	0.197	
7439-95-4	Magnesium, Total	10.8	0.350	0.121	
7439-96-5	Manganese, Total	0.03084	0.00500	0.0022	
7440-23-5	Sodium, Total	49.6	0.500	0.146	

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859770-10	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 12/05/23 12:56
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1859763.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-39-3	Barium, Total	0.2426	0.00250	0.0009	
7440-70-2	Calcium, Total	50.7	0.500	0.197	
7439-95-4	Magnesium, Total	13.6	0.350	0.121	
7440-09-7	Potassium, Total	8.11	0.500	0.154	
7440-23-5	Sodium, Total	28.6	0.500	0.146	

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-01	Date Collected	: 11/29/23 12:40
Client ID	: MW-1S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/06/23 09:49
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1860266.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/06/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.0834	0.0100	0.00327	
7440-36-0	Antimony, Dissolved	0.00071	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00367	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.02150	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	67.8	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00088	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00045	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00151	0.00100	0.00038	
7439-89-6	Iron, Dissolved	0.350	0.0500	0.0191	
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	0.613	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.2944	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00337	0.00200	0.00055	
7440-09-7	Potassium, Dissolved	21.8	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	48.5	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	0.00466	0.00500	0.00157	J
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-02	Date Collected	: 11/29/23 11:10
Client ID	: MW-2S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/06/23 09:54
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1860266.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/06/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00053	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00042	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.03211	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	58.0	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00242	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	0.00033	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00143	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	4.84	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	ND	0.00100	0.00044	U
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	15.4	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	4.82	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-03	Date Collected	: 11/29/23 09:30
Client ID	: MW-3S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/06/23 09:59
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1860266.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/06/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00043	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00041	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.04983	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	53.2	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00098	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00041	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00087	0.00100	0.00038	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	3.71	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00122	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	12.5	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	14.7	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-04	Date Collected	: 11/29/23 14:00
Client ID	: MW-4D	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/06/23 09:45
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1860266.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/06/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	0.00057	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00021	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.05810	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	18.4	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00180	0.00100	0.00017	
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	0.00074	0.00100	0.00038	J
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	10.8	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00087	0.00100	0.00044	J
7440-02-0	Nickel, Dissolved	0.00188	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	1.28	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	50.9	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-05	Date Collected	: 11/29/23 15:30
Client ID	: MW-5S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/06/23 10:57
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1860266.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/06/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.00480	0.0100	0.00327	J
7440-36-0	Antimony, Dissolved	0.00053	0.00400	0.00042	J
7440-38-2	Arsenic, Dissolved	0.00030	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.01450	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	21.2	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00042	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	3.75	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00152	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00080	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	3.15	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	9.25	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-06	Date Collected	: 11/29/23 10:08
Client ID	: MW-6D	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/06/23 11:02
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1860266.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/06/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00046	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.08554	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	0.00006	0.00020	0.00005	J
7440-70-2	Calcium, Dissolved	92.4	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00077	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00038	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00126	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	22.4	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	3.238	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00093	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	42.7	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	29.0	0.100	0.0293	
7440-28-0	Thallium, Dissolved	0.00015	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-07	Date Collected	: 11/29/23 11:38
Client ID	: MW-7S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/06/23 11:07
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1860266.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/06/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00045	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.08676	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	114.	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00039	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00035	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00173	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	12.5	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.1757	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	12.5	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	22.1	0.100	0.0293	
7440-28-0	Thallium, Dissolved	0.00038	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-08	Date Collected	: 11/29/23 16:40
Client ID	: MW-8S	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/06/23 11:24
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1860266.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/06/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00058	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.03894	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	20.2	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00050	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	0.00038	0.00050	0.00016	J
7440-50-8	Copper, Dissolved	0.00396	0.00100	0.00038	
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	2.37	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00166	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00088	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	41.2	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	10.8	0.100	0.0293	
7440-28-0	Thallium, Dissolved	0.00027	0.00100	0.00014	J
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-09	Date Collected	: 11/29/23 00:00
Client ID	: DUP	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/06/23 11:29
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1860266.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/06/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.00493	0.0100	0.00327	J
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00049	0.00050	0.00016	J
7440-39-3	Barium, Dissolved	0.01379	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	20.2	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00052	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	3.58	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00147	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	0.00084	0.00200	0.00055	J
7440-09-7	Potassium, Dissolved	3.01	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	8.94	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: L2370783-11	Date Collected	: 11/29/23 08:45
Client ID	: EB	Date Received	: 11/30/23
Sample Location	: SOUTHAMTON, NY	Date Analyzed	: 12/06/23 11:34
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1860266.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/06/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	0.00746	0.0100	0.00327	J
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	0.00052	0.00050	0.00016	
7440-39-3	Barium, Dissolved	0.00189	0.00050	0.00017	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	4.61	0.100	0.0394	
7440-47-3	Chromium, Dissolved	0.00022	0.00100	0.00017	J
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	1.01	0.0700	0.0242	
7439-96-5	Manganese, Dissolved	0.00169	0.00100	0.00044	
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	0.833	0.100	0.0309	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	9.90	0.100	0.0293	
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	Lab Number	: L2370783
Project Name	: HUNTINGTON READY MIX	Project Number	: 20116
Lab ID	: WG1859880-1	Date Collected	: NA
Client ID	: WG1859880-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/06/23 09:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,6020B	Analyst	: NTB
Lab File ID	: WG1860266.pdf	Instrument ID	: ICPMSQ
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 12/06/23

		mg/l			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Dissolved	ND	0.0100	0.00327	U
7440-36-0	Antimony, Dissolved	ND	0.00400	0.00042	U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00016	U
7440-39-3	Barium, Dissolved	ND	0.00050	0.00017	U
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00010	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0394	U
7440-47-3	Chromium, Dissolved	ND	0.00100	0.00017	U
7440-48-4	Cobalt, Dissolved	ND	0.00050	0.00016	U
7440-50-8	Copper, Dissolved	ND	0.00100	0.00038	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0191	U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00034	U
7439-95-4	Magnesium, Dissolved	ND	0.0700	0.0242	U
7439-96-5	Manganese, Dissolved	0.00072	0.00100	0.00044	J
7440-02-0	Nickel, Dissolved	ND	0.00200	0.00055	U
7440-09-7	Potassium, Dissolved	ND	0.100	0.0309	U
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00173	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00016	U
7440-23-5	Sodium, Dissolved	ND	0.100	0.0293	U
7440-28-0	Thallium, Dissolved	ND	0.00100	0.00014	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00157	U
7440-66-6	Zinc, Dissolved	ND	0.01000	0.00341	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859880-6	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 12/06/23 09:38
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1860266.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/06/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-39-3	Barium, Dissolved	0.05149	0.00250	0.0009	
7440-70-2	Calcium, Dissolved	17.7	0.500	0.197	
7439-95-4	Magnesium, Dissolved	10.1	0.350	0.121	
7440-23-5	Sodium, Dissolved	47.9	0.500	0.146	

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859880-10	**Date Collected**	:
Client ID	: Serial Dilution	**Date Received**	:
Sample Location	:	**Date Analyzed**	: 12/06/23 10:48
Sample Matrix	: WATER	**Dilution Factor**	: 5
Analytical Method	: 1,6020B	**Analyst**	: NTB
Lab File ID	: WG1860266.pdf	**Instrument ID**	: ICPMSQ
Sample Amount	: 50ml	**%Solids**	: N/A
Digestion Method	: EPA 3005A	**Date Digested**	: 12/06/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7440-39-3	Barium, Dissolved	0.2588	0.00250	0.0009	
7440-70-2	Calcium, Dissolved	55.0	0.500	0.197	
7439-95-4	Magnesium, Dissolved	12.9	0.350	0.121	
7440-09-7	Potassium, Dissolved	8.12	0.500	0.154	
7440-23-5	Sodium, Dissolved	24.6	0.500	0.146	

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1771086-1			R1771086-4			R1771086-6		R1771086-9	
Date Analyzed :	12/05/23 06:14			12/05/23 06:51			12/05/23 08:32		12/05/23 09:29	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	50.0	54.8000	110	60.0000	59.7	100	64.6	108	61.0	102
Antimony	50.0	51.6000	103	60.0000	60.4	101	60.5	101	61.5	102
Arsenic	50.0	50.3000	101	60.0000	59.3	99	60.5	101	61.2	102
Barium	50.0	52.0000	104	60.0000	58.7	98	58.8	98	61.1	102
Beryllium	50.0	52.8000	106	60.0000	62.4	104	62.1	104	63.2	105
Cadmium	50.0	51.4000	103	60.0000	60.3	100	59.9	100	60.9	102
Calcium	5000	5310.0000	106	6000.0000	6050	101	6210	104	6270	104
Chromium	50.0	53.0000	106	60.0000	59.2	99	60.4	101	59.6	99
Cobalt	50.0	54.2000	108	60.0000	59.9	100	62.0	103	61.6	103
Copper	50.0	53.9000	108	60.0000	59.4	99	61.8	103	60.7	101
Iron	5000	5490.0000	110	6000.0000	6000	100	6080	101	6160	103
Lead	50.0	47.5000	95	60.0000	56.9	95	55.7	93	54.6	91
Magnesium	5000	5350.0000	107	6000.0000	6070	101	6420	107	6220	104
Manganese	50.0	54.4000	109	60.0000	62.0	103	61.0	102	61.2	102
Nickel	50.0	53.0000	106	60.0000	60.1	100	62.9	105	61.4	102
Potassium	5000	5300.0000	106	6000.0000	6080	101	6280	105	6190	103
Selenium	50.0	50.0000	100	60.0000	60.9	102	56.5	94	58.6	98
Silver	50.0	52.4000	105	60.0000	59.7	100	59.9	100	60.6	101
Sodium	5000	4930.0000	99	6000.0000	5720	95	6290	105	6280	105
Thallium	50.0	48.6000	97	60.0000	58.4	97	61.3	102	57.7	96
Vanadium	50.0	52.5000	105	60.0000	59.6	99	60.8	101	59.9	100
Zinc	50.0	52.7000	105	60.0000	59.0	98	61.0	102	60.7	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1771086-11			R1771086-13		R1771086-15	
Date Analyzed :				12/05/23 10:16			12/05/23 11:04		12/05/23 12:26	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	60.8	101	62.8	105	63.2	105
Antimony				60.0000	62.7	104	62.2	104	61.4	102
Arsenic				60.0000	60.0	100	61.4	102	56.3	94
Barium				60.0000	62.9	105	61.9	103	61.0	102
Beryllium				60.0000	63.3	106	63.2	105	59.6	99
Cadmium				60.0000	61.6	103	59.8	100	59.9	100
Calcium				6000.0000	6130	102	5990	100	5880	98
Chromium				60.0000	60.0	100	58.7	98	56.6	94
Cobalt				60.0000	62.0	103	61.9	103	59.0	98
Copper				60.0000	62.4	104	61.1	102	57.5	96
Iron				6000.0000	6180	103	6180	103	5780	96
Lead				60.0000	55.4	92	60.1	100	54.6	91
Magnesium				6000.0000	6100	102	6080	101	6120	102
Manganese				60.0000	61.1	102	59.8	100	58.2	97
Nickel				60.0000	62.0	103	62.0	103	58.6	98
Potassium				6000.0000	6060	101	6080	101	6010	100
Selenium				60.0000	56.8	95	58.6	98	57.5	96
Silver				60.0000	61.9	103	60.2	100	59.1	98
Sodium				6000.0000	6080	101	6070	101	6130	102
Thallium				60.0000	61.8	103	59.3	99	56.6	94
Vanadium				60.0000	59.4	99	58.9	98	57.4	96
Zinc				60.0000	60.7	101	60.2	100	57.2	95

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1771086-17			R1771086-19			
Date Analyzed :				12/05/23 13:24			12/05/23 14:15			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	65.2	109	63.3	106		
Antimony				60.0000	62.5	104	61.4	102		
Arsenic				60.0000	60.8	101	60.9	102		
Barium				60.0000	63.3	106	63.3	106		
Beryllium				60.0000	61.4	102	62.7	104		
Cadmium				60.0000	59.4	99	60.0	100		
Calcium				6000.0000	5960	99	6000	100		
Chromium				60.0000	59.0	98	56.7	94		
Cobalt				60.0000	63.1	105	61.4	102		
Copper				60.0000	61.5	102	60.9	102		
Iron				6000.0000	6250	104	6110	102		
Lead				60.0000	56.0	93	54.2	90		
Magnesium				6000.0000	6200	103	6380	106		
Manganese				60.0000	60.4	101	60.3	100		
Nickel				60.0000	62.9	105	61.0	102		
Potassium				6000.0000	6310	105	6170	103		
Selenium				60.0000	56.5	94	62.2	104		
Silver				60.0000	59.6	99	60.5	101		
Sodium				6000.0000	6520	109	6560	109		
Thallium				60.0000	58.4	97	59.6	99		
Vanadium				60.0000	59.4	99	57.3	96		
Zinc				60.0000	60.9	102	58.9	98		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1771559-1			R1771559-4			R1771559-6		R1771559-8	
Date Analyzed :	12/06/23 05:51			12/06/23 06:16			12/06/23 07:34		12/06/23 08:04	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	50.0	52.4000	105	60.0000	61.6	103	61.8	103	60.6	101
Antimony	50.0	51.0000	102	60.0000	61.2	102	59.5	99	59.0	98
Arsenic	50.0	50.4000	101	60.0000	60.9	102	60.8	101	59.7	100
Barium	50.0	51.4000	103	60.0000	60.7	101	59.2	99	59.7	100
Beryllium	50.0	52.6000	105	60.0000	61.8	103	60.7	101	58.8	98
Cadmium	50.0	52.8000	106	60.0000	61.4	102	61.0	102	59.8	100
Calcium	5000	5120.0000	102	6000.0000	6090	102	6350	106	6210	104
Chromium	50.0	51.3000	103	60.0000	59.5	99	60.8	101	60.6	101
Cobalt	50.0	51.5000	103	60.0000	60.5	101	62.3	104	60.8	101
Copper	50.0	51.0000	102	60.0000	60.7	101	62.6	104	59.4	99
Iron	5000	5230.0000	105	6000.0000	5910	98	6210	104	6100	102
Lead	50.0	48.4000	97	60.0000	57.4	96	58.3	97	57.2	95
Magnesium	5000	5250.0000	105	6000.0000	5750	96	6090	102	5990	100
Manganese	50.0	52.1000	104	60.0000	59.1	98	62.2	104	62.2	104
Nickel	50.0	52.3000	105	60.0000	61.1	102	61.0	102	60.9	102
Potassium	5000	5060.0000	101	6000.0000	6110	102	6220	104	6240	104
Selenium	50.0	48.2000	96	60.0000	59.2	99	57.7	96	57.7	96
Silver	50.0	52.5000	105	60.0000	61.4	102	60.4	101	59.5	99
Sodium	5000	5200.0000	104	6000.0000	5910	98	6200	103	6070	101
Thallium	50.0	44.2000	88	60.0000	61.3	102	56.6	94	55.3	92
Vanadium	50.0	50.4000	101	60.0000	59.4	99	60.7	101	60.5	101
Zinc	50.0	51.9000	104	60.0000	60.5	101	61.6	103	60.6	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1771559-11			R1771559-13		R1771559-15	
Date Analyzed :				12/06/23 09:05			12/06/23 10:03		12/06/23 11:11	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	59.2	99	60.6	101	64.8	108
Antimony				60.0000	60.8	101	61.4	102	61.3	102
Arsenic				60.0000	59.0	98	60.1	100	61.7	103
Barium				60.0000	62.1	104	63.6	106	65.5	109
Beryllium				60.0000	57.7	96	59.8	100	62.1	104
Cadmium				60.0000	62.2	104	62.0	103	61.5	102
Calcium				6000.0000	6440	107	6180	103	6260	104
Chromium				60.0000	66.2	110	62.1	104	64.5	108
Cobalt				60.0000	61.2	102	63.0	105	62.7	104
Copper				60.0000	61.9	103	63.6	106	63.2	105
Iron				6000.0000	6230	104	6180	103	6270	104
Lead				60.0000	55.6	93	57.7	96	57.6	96
Magnesium				6000.0000	5970	100	6070	101	6250	104
Manganese				60.0000	65.4	109	63.6	106	65.2	109
Nickel				60.0000	61.0	102	62.9	105	63.6	106
Potassium				6000.0000	6080	101	6070	101	6520	109
Selenium				60.0000	58.3	97	57.8	96	59.7	100
Silver				60.0000	62.2	104	62.1	104	62.1	104
Sodium				6000.0000	5530	92	5510	92	5790	96
Thallium				60.0000	55.3	92	53.8	90	54.0	90
Vanadium				60.0000	64.1	107	62.0	103	64.2	107
Zinc				60.0000	61.0	102	61.5	102	61.8	103

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Units**	: ug/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1771559-17						
Date Analyzed :				12/06/23 12:02						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				60.0000	59.2	99				
Antimony				60.0000	62.7	104				
Arsenic				60.0000	59.7	100				
Barium				60.0000	65.6	109				
Beryllium				60.0000	62.2	104				
Cadmium				60.0000	63.6	106				
Calcium				6000.0000	6260	104				
Chromium				60.0000	63.5	106				
Cobalt				60.0000	62.2	104				
Copper				60.0000	61.4	102				
Iron				6000.0000	6210	104				
Lead				60.0000	59.2	99				
Magnesium				6000.0000	6120	102				
Manganese				60.0000	64.0	107				
Nickel				60.0000	62.5	104				
Potassium				6000.0000	6150	102				
Selenium				60.0000	58.4	97				
Silver				60.0000	63.5	106				
Sodium				6000.0000	5700	95				
Thallium				60.0000	54.8	91				
Vanadium				60.0000	62.6	104				
Zinc				60.0000	61.6	103				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1771086-2		R1771086-5		R1771086-7		R1771086-10		WG1859770-1	
Date Analyzed :	12/05/23 06:18		12/05/23 06:56		12/05/23 08:37		12/05/23 09:34		12/05/23 11:37	
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q	mg/l	Q
Aluminum	3.27	U	3.27	U	3.27	U	3.27	U	0.00327	U
Antimony	0.429	U	0.429	U	0.429	U	0.429	U	0.00042	U
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U	0.00016	U
Barium	0.173	U	0.173	U	0.173	U	0.173	U	0.00017	U
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U	0.00010	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U	0.00005	U
Calcium	39.4	U	39.4	U	39.4	U	39.4	U	0.0394	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U	0.00017	U
Cobalt	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Copper	0.384	U	0.384	U	0.384	U	0.384	U	0.00038	U
Iron	19.1	U	19.1	U	19.1	U	19.1	U	0.0191	U
Lead	0.343	U	0.343	U	0.343	U	0.343	U	0.00034	U
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U	0.0242	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U	0.00044	U
Nickel	0.556	U	0.556	U	0.556	U	0.556	U	0.00055	U
Potassium	30.9	U	30.9	U	30.9	U	30.9	U	0.0309	U
Selenium	1.73	U	1.73	U	1.73	U	1.73	U	0.00173	U
Silver	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Sodium	29.3	U	29.3	U	29.3	U	29.3	U	0.0293	U
Thallium	0.414	J	0.422	J	0.422	J	0.418	J	0.00014	U
Vanadium	1.57	U	1.57	U	1.57	U	1.57	U	0.00157	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U	0.00341	U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1771086-12		R1771086-14		R1771086-16			
Date Analyzed :			12/05/23 10:21		12/05/23 11:09		12/05/23 12:30			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.429	U	0.429	U	0.429	U		
Arsenic			0.168	J	0.165	U	0.165	U		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	23.2	J	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	33.8	J	51.4	J		
Thallium			0.441	J	0.445	J	0.419	J		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1771086-18		R1771086-20					
Date Analyzed :			12/05/23 13:29		12/05/23 14:20					
Parameter	**ug/l**	**Q**	**ug/l**	**Q**	**ug/l**	**Q**	**ug/l**	**Q**		**Q**
Aluminum			3.27	U	3.27	U				
Antimony			0.429	U	0.429	U				
Arsenic			0.165	U	0.198	J				
Barium			0.173	U	0.173	U				
Beryllium			0.107	U	0.107	U				
Cadmium			0.0599	U	0.0599	U				
Calcium			39.4	U	39.4	U				
Chromium			0.178	U	0.178	U				
Cobalt			0.163	U	0.163	U				
Copper			0.384	U	0.384	U				
Iron			19.1	U	19.1	U				
Lead			0.343	U	0.343	U				
Magnesium			24.2	U	24.2	U				
Manganese			0.440	U	0.440	U				
Nickel			0.556	U	0.556	U				
Potassium			30.9	U	30.9	U				
Selenium			1.73	U	1.73	U				
Silver			0.163	U	0.163	U				
Sodium			29.3	U	29.3	U				
Thallium			0.449	J	0.422	J				
Vanadium			1.57	U	1.57	U				
Zinc			3.41	U	3.41	U				

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1771559-2		R1771559-5		R1771559-7		R1771559-9		WG1859880-1	
Date Analyzed :	12/06/23 05:56		12/06/23 06:21		12/06/23 07:39		12/06/23 08:08		12/06/23 09:15	
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q	mg/l	Q
Aluminum	3.27	U	3.27	U	3.27	U	3.27	U	0.00327	U
Antimony	0.429	U	0.429	U	0.429	U	0.429	U	0.00042	U
Arsenic	0.165	U	0.165	U	0.165	U	0.165	U	0.00016	U
Barium	0.173	U	0.173	U	0.173	U	0.173	U	0.00017	U
Beryllium	0.107	U	0.107	U	0.107	U	0.107	U	0.00010	U
Cadmium	0.0599	U	0.0599	U	0.0599	U	0.0599	U	0.00005	U
Calcium	39.4	U	39.4	U	39.4	U	39.4	U	0.0394	U
Chromium	0.178	U	0.178	U	0.178	U	0.178	U	0.00017	U
Cobalt	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Copper	0.384	U	0.384	U	0.384	U	0.384	U	0.00038	U
Iron	19.1	U	19.1	U	19.1	U	19.1	U	0.0191	U
Lead	0.343	U	0.343	U	0.343	U	0.343	U	0.00034	U
Magnesium	24.2	U	24.2	U	24.2	U	24.2	U	0.0242	U
Manganese	0.440	U	0.440	U	0.440	U	0.440	U	0.00072	J
Nickel	0.556	U	0.556	U	0.556	U	0.556	U	0.00055	U
Potassium	30.9	U	30.9	U	30.9	U	30.9	U	0.0309	U
Selenium	1.73	U	1.73	U	1.73	U	1.73	U	0.00173	U
Silver	0.163	U	0.163	U	0.163	U	0.163	U	0.00016	U
Sodium	29.3	U	29.3	U	29.3	U	29.3	U	0.0293	U
Thallium	0.397	J	0.389	J	0.395	J	0.420	J	0.00014	U
Vanadium	1.57	U	1.57	U	1.57	U	1.57	U	0.00157	U
Zinc	3.41	U	3.41	U	3.41	U	3.41	U	0.00341	U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1771559-12		R1771559-14		R1771559-16			
Date Analyzed :			12/06/23 09:10		12/06/23 10:08		12/06/23 11:17			
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U	3.27	U	3.27	U		
Antimony			0.429	U	0.429	U	0.429	U		
Arsenic			0.165	U	0.302	J	0.405	J		
Barium			0.173	U	0.173	U	0.173	U		
Beryllium			0.107	U	0.107	U	0.107	U		
Cadmium			0.0599	U	0.0599	U	0.0599	U		
Calcium			39.4	U	39.4	U	39.4	U		
Chromium			0.178	U	0.178	U	0.178	U		
Cobalt			0.163	U	0.163	U	0.163	U		
Copper			0.384	U	0.384	U	0.384	U		
Iron			19.1	U	19.1	U	19.1	U		
Lead			0.343	U	0.343	U	0.343	U		
Magnesium			24.2	U	24.2	U	24.2	U		
Manganese			0.440	U	0.440	U	0.440	U		
Nickel			0.556	U	0.556	U	0.556	U		
Potassium			30.9	U	30.9	U	30.9	U		
Selenium			1.73	U	1.73	U	1.73	U		
Silver			0.163	U	0.163	U	0.163	U		
Sodium			29.3	U	29.3	U	29.3	U		
Thallium			0.305	J	0.439	J	0.353	J		
Vanadium			1.57	U	1.57	U	1.57	U		
Zinc			3.41	U	3.41	U	3.41	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1771559-18							
Date Analyzed :			12/06/23 12:07							
Parameter	ug/l	Q	ug/l	Q	ug/l	Q	ug/l	Q		Q
Aluminum			3.27	U						
Antimony			0.429	U						
Arsenic			0.282	J						
Barium			0.173	U						
Beryllium			0.107	U						
Cadmium			0.0599	U						
Calcium			39.4	U						
Chromium			0.178	U						
Cobalt			0.163	U						
Copper			0.384	U						
Iron			19.1	U						
Lead			0.343	U						
Magnesium			24.2	U						
Manganese			0.440	U						
Nickel			0.556	U						
Potassium			30.9	U						
Selenium			1.73	U						
Silver			0.163	U						
Sodium			29.3	U						
Thallium			0.466	J						
Vanadium			1.57	U						
Zinc			3.41	U						

Form 4a
Interference Check Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Concentration Units**	: ug/l

	True		Initial Found				Final Found			
Lab ID :			R1771086-3							
Analysis Date :			12/05/23 06:42							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Aluminum	20000		19500	98						
Antimony			0.0517							
Arsenic			-0.0115							
Barium			0.264							
Beryllium			0.0117							
Cadmium			0.0580							
Calcium	60000		59300	99						
Chromium			0.333							
Cobalt			0.477							
Copper			0.208							
Iron	50000		53300	107						
Lead			0.287							
Magnesium	20000		20900	104						
Manganese			1.12							
Nickel			0.648							
Potassium	20000		20000	100						
Selenium			0.765							
Silver			0.00552							
Sodium	50000		50100	100						
Thallium			0.0421							
Vanadium			-0.0542							
Zinc			0.885							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Concentration Units**	: ug/l

			Initial Found				Final Found			
Lab ID	:		R1771559-3							
Analysis Date	:		12/06/23 06:07							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	20000		19100	96						
Antimony			0.0569							
Arsenic			-0.0694							
Barium			0.276							
Beryllium			0.0198							
Cadmium			0.0758							
Calcium	60000		60700	101						
Chromium			0.280							
Cobalt			0.474							
Copper			0.266							
Iron	50000		52700	105						
Lead			0.293							
Magnesium	20000		21000	105						
Manganese			0.916							
Nickel			0.615							
Potassium	20000		19500	98						
Selenium			1.10							
Silver			0.00611							
Sodium	50000		48100	96						
Thallium			0.0794							
Vanadium			0.0214							
Zinc			0.956							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2370783-04		
Matrix Spike	: WG1859770-3	**MS Analysis Date**	: 12/05/23 11:53
Matrix Spike Dup	: WG1859770-4	**MSD Analysis Date**	: 12/05/23 11:58

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R		RPD	Recovery Limits	RPD Limit
Aluminum, Total	0.394	2	2.47	104		2	2.46	103		0	75-125	20
Antimony, Total	0.00101J	0.5	0.3750	75		0.5	0.3923	78		5	75-125	20
Arsenic, Total	ND	0.12	0.1128	94		0.12	0.1039	86		8	75-125	20
Barium, Total	0.05873	2	1.929	94		2	2.109	102		9	75-125	20
Beryllium, Total	ND	0.05	0.04932	99		0.05	0.05170	103		5	75-125	20
Cadmium, Total	ND	0.053	0.04950	93		0.053	0.05260	99		6	75-125	20
Calcium, Total	18.0	10	26.6	86		10	25.5	75		4	75-125	20
Chromium, Total	0.00469	0.2	0.1940	95		0.2	0.1856	90		4	75-125	20
Cobalt, Total	0.00040J	0.5	0.4744	95		0.5	0.4560	91		4	75-125	20
Copper, Total	0.00094J	0.25	0.2371	95		0.25	0.2244	90		6	75-125	20
Iron, Total	0.452	1	1.42	97		1	1.28	83		10	75-125	20
Lead, Total	0.00077J	0.53	0.4459	84		0.53	0.4982	94		11	75-125	20
Magnesium, Total	11.2	10	20.4	92		10	20.8	96		2	75-125	20
Manganese, Total	0.03018	0.5	0.5121	96		0.5	0.4882	92		5	75-125	20
Nickel, Total	0.00272	0.5	0.4702	93		0.5	0.4538	90		4	75-125	20
Potassium, Total	1.35	10	11.0	96		10	10.6	92		4	75-125	20
Selenium, Total	ND	0.12	0.123	102		0.12	0.110	92		11	75-125	20
Silver, Total	ND	0.05	0.04555	91		0.05	0.04885	98		7	75-125	20
Sodium, Total	53.1	10	59.7	66	Q	10	57.0	39	Q	5	75-125	20
Thallium, Total	ND	0.12	0.1076	90		0.12	0.1214	101		12	75-125	20
Vanadium, Total	ND	0.5	0.4733	95		0.5	0.4450	89		6	75-125	20
Zinc, Total	ND	0.5	0.4692	94		0.5	0.4429	88		6	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2371040-03		
Matrix Spike	: WG1859770-7	**MS Analysis Date**	: 12/05/23 12:42
Matrix Spike Dup	: WG1859770-8	**MSD Analysis Date**	: 12/05/23 12:47

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R		RPD	Recovery Limits	RPD Limit
Aluminum, Total	0.138	2	2.21	104		2	2.33	110		5	75-125	20
Antimony, Total	0.00062J	0.5	0.3481	70	Q	0.5	0.3883	78		11	75-125	20
Arsenic, Total	0.00023J	0.12	0.1203	100		0.12	0.1192	99		1	75-125	20
Barium, Total	0.2600	2	2.224	98		2	2.208	97		1	75-125	20
Beryllium, Total	ND	0.05	0.05213	104		0.05	0.05224	104		0	75-125	20
Cadmium, Total	ND	0.053	0.05122	97		0.053	0.05057	95		1	75-125	20
Calcium, Total	56.3	10	62.5	62	Q	10	65.9	96		5	75-125	20
Chromium, Total	0.00413	0.2	0.2026	99		0.2	0.2034	100		0	75-125	20
Cobalt, Total	0.00053	0.5	0.5043	101		0.5	0.5091	102		1	75-125	20
Copper, Total	0.00172	0.25	0.2514	100		0.25	0.2505	100		0	75-125	20
Iron, Total	0.180	1	1.22	104		1	1.25	107		2	75-125	20
Lead, Total	ND	0.53	0.4757	90		0.53	0.4871	92		2	75-125	20
Magnesium, Total	14.8	10	24.8	100		10	25.1	103		1	75-125	20
Manganese, Total	0.00985	0.5	0.5126	100		0.5	0.5051	99		1	75-125	20
Nickel, Total	0.00294	0.5	0.5010	100		0.5	0.4958	98		1	75-125	20
Potassium, Total	8.97	10	18.4	94		10	19.4	104		5	75-125	20
Selenium, Total	ND	0.12	0.103	86		0.12	0.0998	83		3	75-125	20
Silver, Total	ND	0.05	0.04832	97		0.05	0.04818	96		0	75-125	20
Sodium, Total	33.1	10	36.9	38	Q	10	38.0	49	Q	3	75-125	20
Thallium, Total	ND	0.12	0.1180	98		0.12	0.1194	100		1	75-125	20
Vanadium, Total	ND	0.5	0.4867	97		0.5	0.4786	96		2	75-125	20
Zinc, Total	ND	0.5	0.4886	98		0.5	0.4874	97		0	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2370783-04		
Matrix Spike	: WG1859880-3	**MS Analysis Date**	: 12/06/23 09:24
Matrix Spike Dup	: WG1859880-4	**MSD Analysis Date**	: 12/06/23 09:29

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	ND	2	1.95	98	2	1.94	97	1	75-125	20
Antimony, Dissolved	0.00057J	0.5	0.3774	75	0.5	0.3961	79	5	75-125	20
Arsenic, Dissolved	0.00021J	0.12	0.1177	98	0.12	0.1169	97	1	75-125	20
Barium, Dissolved	0.05810	2	2.117	103	2	2.110	102	0	75-125	20
Beryllium, Dissolved	ND	0.05	0.04758	95	0.05	0.04805	96	1	75-125	20
Cadmium, Dissolved	ND	0.053	0.05238	99	0.053	0.05312	100	1	75-125	20
Calcium, Dissolved	18.4	10	28.1	97	10	28.0	96	0	75-125	20
Chromium, Dissolved	0.00180	0.2	0.2074	103	0.2	0.2056	102	1	75-125	20
Cobalt, Dissolved	ND	0.5	0.4854	97	0.5	0.4785	96	1	75-125	20
Copper, Dissolved	0.00074J	0.25	0.2518	101	0.25	0.2427	97	4	75-125	20
Iron, Dissolved	ND	1	1.00	100	1	1.02	102	2	75-125	20
Lead, Dissolved	ND	0.53	0.5332	101	0.53	0.5295	100	1	75-125	20
Magnesium, Dissolved	10.8	10	20.5	97	10	20.5	97	0	75-125	20
Manganese, Dissolved	0.00087J	0.5	0.5139	103	0.5	0.4932	99	4	75-125	20
Nickel, Dissolved	0.00188J	0.5	0.4886	98	0.5	0.4613	92	6	75-125	20
Potassium, Dissolved	1.28	10	11.7	104	10	11.3	100	3	75-125	20
Selenium, Dissolved	ND	0.12	0.110	92	0.12	0.113	94	3	75-125	20
Silver, Dissolved	ND	0.05	0.04998	100	0.05	0.04965	99	1	75-125	20
Sodium, Dissolved	50.9	10	57.2	63 Q	10	56.9	60 Q	1	75-125	20
Thallium, Dissolved	ND	0.12	0.1138	95	0.12	0.1122	94	1	75-125	20
Vanadium, Dissolved	ND	0.5	0.5009	100	0.5	0.4909	98	2	75-125	20
Zinc, Dissolved	ND	0.5	0.4896	98	0.5	0.4831	97	1	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2371040-03		
Matrix Spike	: WG1859880-7	**MS Analysis Date**	: 12/06/23 10:26
Matrix Spike Dup	: WG1859880-8	**MSD Analysis Date**	: 12/06/23 10:39

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R		RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	0.00418J	2	1.89	94		2	1.85	92		2	75-125	20
Antimony, Dissolved	0.00071J	0.5	0.4065	81		0.5	0.4091	82		1	75-125	20
Arsenic, Dissolved	0.00039J	0.12	0.1252	104		0.12	0.1078	90		15	75-125	20
Barium, Dissolved	0.2682	2	2.255	99		2	2.134	93		6	75-125	20
Beryllium, Dissolved	ND	0.05	0.04877	98		0.05	0.04537	91		7	75-125	20
Cadmium, Dissolved	ND	0.053	0.05224	98		0.053	0.04781	90		9	75-125	20
Calcium, Dissolved	60.2	10	66.5	63	Q	10	63.3	31	Q	5	75-125	20
Chromium, Dissolved	0.00178	0.2	0.2019	100		0.2	0.1852	92		9	75-125	20
Cobalt, Dissolved	0.00028J	0.5	0.4821	96		0.5	0.4380	88		10	75-125	20
Copper, Dissolved	0.00136	0.25	0.2470	98		0.25	0.2225	88		10	75-125	20
Iron, Dissolved	ND	1	1.04	104		1	0.975	98		6	75-125	20
Lead, Dissolved	ND	0.53	0.5366	101		0.53	0.4876	92		10	75-125	20
Magnesium, Dissolved	14.5	10	23.2	87		10	23.1	86		0	75-125	20
Manganese, Dissolved	0.00115	0.5	0.5024	100		0.5	0.4446	89		12	75-125	20
Nickel, Dissolved	0.00228	0.5	0.4764	95		0.5	0.4354	87		9	75-125	20
Potassium, Dissolved	8.98	10	19.0	100		10	18.0	90		5	75-125	20
Selenium, Dissolved	ND	0.12	0.113	94		0.12	0.105	88		7	75-125	20
Silver, Dissolved	ND	0.05	0.05071	101		0.05	0.04633	93		9	75-125	20
Sodium, Dissolved	32.2	10	34.7	25	Q	10	33.8	16	Q	3	75-125	20
Thallium, Dissolved	ND	0.12	0.1145	95		0.12	0.1044	87		9	75-125	20
Vanadium, Dissolved	ND	0.5	0.4897	98		0.5	0.4594	92		6	75-125	20
Zinc, Dissolved	ND	0.5	0.4749	95		0.5	0.4264	85		11	75-125	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1859770-2	**LCS Analysis Date**	: 12/05/23 11:49
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	2.00	2.19	110.					80-120	20
Antimony, Total	0.500	0.419	84.					80-120	20
Arsenic, Total	0.120	0.118	99.					80-120	20
Barium, Total	2.00	2.03	101.					80-120	20
Beryllium, Total	0.0500	0.0518	104.					80-120	20
Cadmium, Total	0.0530	0.0517	98.					80-120	20
Calcium, Total	10.0	9.84	98.					80-120	20
Chromium, Total	0.200	0.196	98.					80-120	20
Cobalt, Total	0.500	0.499	100.					80-120	20
Copper, Total	0.250	0.246	98.					80-120	20
Iron, Total	1.00	1.05	105.					80-120	20
Lead, Total	0.530	0.511	96.					80-120	20
Magnesium, Total	10.0	10.2	102.					80-120	20
Manganese, Total	0.500	0.508	102.					80-120	20
Nickel, Total	0.500	0.494	99.					80-120	20
Potassium, Total	10.0	10.5	105.					80-120	20
Selenium, Total	0.120	0.118	98.					80-120	20
Silver, Total	0.0500	0.0484	97.					80-120	20
Sodium, Total	10.0	9.16	92.					80-120	20
Thallium, Total	0.120	0.116	97.					80-120	20
Vanadium, Total	0.500	0.486	97.					80-120	20
Zinc, Total	0.500	0.486	97.					80-120	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1859880-2	**LCS Analysis Date**	: 12/06/23 10:34
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Dissolved	2.00	2.02	101.					80-120	20
Antimony, Dissolved	0.500	0.442	88.					80-120	20
Arsenic, Dissolved	0.120	0.120	100.					80-120	20
Barium, Dissolved	2.00	2.12	106.					80-120	20
Beryllium, Dissolved	0.0500	0.0490	98.					80-120	20
Cadmium, Dissolved	0.0530	0.0529	100.					80-120	20
Calcium, Dissolved	10.0	9.41	94.					80-120	20
Chromium, Dissolved	0.200	0.205	102.					80-120	20
Cobalt, Dissolved	0.500	0.492	98.					80-120	20
Copper, Dissolved	0.250	0.248	99.					80-120	20
Iron, Dissolved	1.00	1.03	103.					80-120	20
Lead, Dissolved	0.530	0.568	107.					80-120	20
Magnesium, Dissolved	10.0	10.2	102.					80-120	20
Manganese, Dissolved	0.500	0.510	102.					80-120	20
Nickel, Dissolved	0.500	0.493	98.					80-120	20
Potassium, Dissolved	10.0	10.5	105.					80-120	20
Selenium, Dissolved	0.120	0.118	98.					80-120	20
Silver, Dissolved	0.0500	0.0509	102.					80-120	20
Sodium, Dissolved	10.0	8.97	90.					80-120	20
Thallium, Dissolved	0.120	0.116	97.					80-120	20
Vanadium, Dissolved	0.500	0.502	100.					80-120	20
Zinc, Dissolved	0.500	0.487	97.					80-120	20

Form 8
Serial Dilutions

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2370783-04	**Analysis Date**	: 12/05/23 12:12
Serial Dilution ID	: WG1859770-6	**Analysis Date**	: 12/05/23 12:07

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Aluminum, Total	0.394	0.343	13	20
Barium, Total	0.05873	0.05862	0	20
Calcium, Total	18.0	17.1	5	20
Magnesium, Total	11.2	10.8	4	20
Manganese, Total	0.03018	0.03084	2	20
Sodium, Total	53.1	49.6	7	20

Form 8
Serial Dilutions

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2371040-03	**Analysis Date**	: 12/05/23 13:01
Serial Dilution ID	: WG1859770-10	**Analysis Date**	: 12/05/23 12:56

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Barium, Total	0.2600	0.2426	7	20
Calcium, Total	56.3	50.7	10	20
Magnesium, Total	14.8	13.6	8	20
Potassium, Total	8.97	8.11	10	20
Sodium, Total	33.1	28.6	14	20

Form 8
Serial Dilutions

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2370783-04	**Analysis Date**	: 12/06/23 09:45
Serial Dilution ID	: WG1859880-6	**Analysis Date**	: 12/06/23 09:38

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Barium, Dissolved	0.05810	0.05149	11	20
Calcium, Dissolved	18.4	17.7	4	20
Magnesium, Dissolved	10.8	10.1	6	20
Sodium, Dissolved	50.9	47.9	6	20

Form 8
Serial Dilutions

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2371040-03	**Analysis Date**	: 12/06/23 10:53
Serial Dilution ID	: WG1859880-10	**Analysis Date**	: 12/06/23 10:48

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Barium, Dissolved	0.2682	0.2588	4	20
Calcium, Dissolved	60.2	55.0	9	20
Magnesium, Dissolved	14.5	12.9	11	20
Potassium, Dissolved	8.98	8.12	10	20
Sodium, Dissolved	32.2	24.6	24*	20

Form 12
Preparation Log

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2370783-01	12/05/23 07:40	-	50
L2370783-02	12/05/23 07:40	-	50
L2370783-03	12/05/23 07:40	-	50
L2370783-04	12/05/23 07:40	-	50
L2370783-05	12/05/23 07:40	-	50
L2370783-06	12/05/23 07:40	-	50
L2370783-07	12/05/23 07:40	-	50
L2370783-08	12/05/23 07:40	-	50
L2370783-09	12/05/23 07:40	-	50
L2370783-11	12/05/23 07:40	-	50
WG1859770-1	12/05/23 07:40	-	50
WG1859770-2	12/05/23 07:40	-	50
WG1859770-3	12/05/23 07:40	-	50
WG1859770-4	12/05/23 07:40	-	50
WG1859770-6	12/05/23 07:40	-	50
WG1859770-7	12/05/23 07:40	-	50
WG1859770-8	12/05/23 07:40	-	50
WG1859770-10	12/05/23 07:40	-	50

Form 12
Preparation Log

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix	: WATER	**Prep Method**	: EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2370783-01	12/06/23 02:00	-	50
L2370783-02	12/06/23 02:00	-	50
L2370783-03	12/06/23 02:00	-	50
L2370783-04	12/06/23 02:00	-	50
L2370783-05	12/06/23 02:00	-	50
L2370783-06	12/06/23 02:00	-	50
L2370783-07	12/06/23 02:00	-	50
L2370783-08	12/06/23 02:00	-	50
L2370783-09	12/06/23 02:00	-	50
L2370783-11	12/06/23 02:00	-	50
WG1859880-1	12/06/23 02:00	-	50
WG1859880-2	12/06/23 02:00	-	50
WG1859880-3	12/06/23 02:00	-	50
WG1859880-4	12/06/23 02:00	-	50
WG1859880-6	12/06/23 02:00	-	50
WG1859880-7	12/06/23 02:00	-	50
WG1859880-8	12/06/23 02:00	-	50
WG1859880-10	12/06/23 02:00	-	50

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 12/05/23 05:02	**End Date**	: 12/05/23 14:20

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1771086-8 TUNE		05:02:00																						
R1771086-1 ICV	1	06:14:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-2 ICB	1	06:18:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-3 ICSA	1	06:42:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-4 CCV	1	06:51:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-5 CCB	1	06:56:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-6 CCV	1	08:32:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-7 CCB	1	08:37:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-9 CCV	1	09:29:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-10 CCB	1	09:34:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-11 CCV	1	10:16:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-12 CCB	1	10:21:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-13 CCV	1	11:04:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-14 CCB	1	11:09:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859770-1 BLANK	1	11:37:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859770-2 LCS	5	11:49:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859770-3 MS	10	11:53:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859770-4 MSD	10	11:58:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859770-6 SERDIL	5	12:07:38	X			X			X						X	X					X			
L2370783-04	1	12:12:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-15 CCV	1	12:26:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-16 CCB	1	12:30:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-11	1	12:37:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859770-7 MS	10	12:42:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859770-8 MSD	10	12:47:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859770-10 SERDIL	5	12:56:29				X			X						X			X			X			
L2370783-01	1	13:05:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 12/05/23 05:02	**End Date**	: 12/05/23 14:20

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
L2370783-02	1	13:10:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-03	1	13:15:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-05	1	13:19:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-17 CCV	1	13:24:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-18 CCB	1	13:29:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-06	1	13:34:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-07	1	13:38:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-08	1	13:43:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-09	1	13:48:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-19 CCV	1	14:15:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771086-20 CCB	1	14:20:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 12/06/23 04:57	**End Date**	: 12/06/23 12:07

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
R1771559-10 TUNE		04:57:00																						
R1771559-1 ICV	1	05:51:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-2 ICB	1	05:56:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-3 ICSA	1	06:07:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-4 CCV	1	06:16:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-5 CCB	1	06:21:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-6 CCV	1	07:34:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-7 CCB	1	07:39:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-8 CCV	1	08:04:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-9 CCB	1	08:08:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-11 CCV	1	09:05:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-12 CCB	1	09:10:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859880-1 BLANK	1	09:15:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859880-3 MS	10	09:24:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859880-4 MSD	10	09:29:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859880-6 SERDIL	5	09:38:40				X			X						X						X			
L2370783-04	1	09:45:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-01	1	09:49:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-02	1	09:54:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-03	1	09:59:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-13 CCV	1	10:03:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-14 CCB	1	10:08:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859880-7 MS	10	10:26:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859880-2 LCS	5	10:34:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859880-8 MSD	10	10:39:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1859880-10 SERDIL	5	10:48:33				X			X						X			X			X			
L2370783-05	1	10:57:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 12/06/23 04:57	**End Date**	: 12/06/23 12:07

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved
L2370783-06	1	11:02:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-07	1	11:07:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-15 CCV	1	11:11:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-16 CCB	1	11:17:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-08	1	11:24:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-09	1	11:29:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L2370783-11	1	11:34:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-17 CCV	1	12:02:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1771559-18 CCB	1	12:07:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 14
ICP-MS Tune

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: R1771086-8	**Analysis Date**	: 12/05/23 05:02
ICP-MS Instrument	: iCAP Q		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9192	0.718	1.1
115 In	114.8763	0.73	1.4
7 Li	7.0276	0.717	1.3
238 U	238.0136	0.738	0.8

Form 14
ICP-MS Tune

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab Sample ID	: R1771559-10	**Analysis Date**	: 12/06/23 04:57
ICP-MS Instrument	: iCAP Q		

Mass Element	Avg Measured Mass (amu)	Avg. Peak Width at 10% Peak Height (amu)	%RSD
59 Co	58.9181	0.719	1.1
115 In	114.8726	0.733	1.7
7 Li	7.0285	0.715	0.6
238 U	238.0053	0.738	0.9

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 12/05/23	**End Date**	: 12/05/23

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
R1771086-1 ICV	06:14:18	92	102	103	98	103
R1771086-2 ICB	06:18:59	92	96	102	96	98
R1771086-3 ICSA	06:42:00	82	101	106	98	97
R1771086-4 CCV	06:51:18	88	103	109	101	100
R1771086-5 CCB	06:56:00	85	92	105	102	99
R1771086-6 CCV	08:32:29	85	102	105	101	100
R1771086-7 CCB	08:37:11	84	88	100	98	97
R1771086-9 CCV	09:29:46	81	98	105	99	100
R1771086-10 CCB	09:34:28	80	85	101	98	97
R1771086-11 CCV	10:16:26	78	96	102	94	97
R1771086-12 CCB	10:21:08	77	82	103	96	95
R1771086-13 CCV	11:04:39	89	104	104	101	109
R1771086-14 CCB	11:09:21	87	91	105	100	98
WG1859770-1 BLANK	11:37:47	110	109	101	104	104
WG1859770-2 LCS	11:49:07	104	109	113	112	110
WG1859770-3 MS	11:53:44	102	107	111	111	107
WG1859770-4 MSD	11:58:21	97	102	123	108	99
WG1859770-6 SERDIL	12:07:38	96	100	107	103	100
L2370783-04	12:12:17	90	98	109	105	97
R1771086-15 CCV	12:26:12	105	113	109	101	101
R1771086-16 CCB	12:30:54	102	98	105	97	100
L2370783-11	12:37:50	101	100	113	99	100
WG1859770-7 MS	12:42:31	97	100	100	100	98
WG1859770-8 MSD	12:47:10	94	98	101	101	96
WG1859770-10 SERDIL	12:56:29	98	101	105	100	98
L2370783-01	13:05:48	88	96	102	98	92
L2370783-02	13:10:26	92	99	105	103	93

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 12/05/23	**End Date**	: 12/05/23

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
L2370783-03	13:15:05	91	94	104	100	92
L2370783-05	13:19:43	88	95	103	100	93
R1771086-17 CCV	13:24:21	86	98	100	98	94
R1771086-18 CCB	13:29:04	85	87	99	92	90
L2370783-06	13:34:04	86	93	100	93	86
L2370783-07	13:38:43	86	93	98	94	87
L2370783-08	13:43:21	87	93	99	94	92
L2370783-09	13:48:00	87	92	103	98	92
R1771086-19 CCV	14:15:57	85	97	103	98	98
R1771086-20 CCB	14:20:40	83	88	101	98	94

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 12/06/23	**End Date**	: 12/06/23

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
R1771559-1 ICV	05:51:38	101	111	121	117	127
R1771559-2 ICB	05:56:18	102	108	120	118	122
R1771559-3 ICSA	06:07:00	86	104	119	116	122
R1771559-4 CCV	06:16:19	91	110	120	115	123
R1771559-5 CCB	06:21:00	96	103	122	119	126
R1771559-6 CCV	07:34:46	104	122	120	120	160
R1771559-7 CCB	07:39:28	104	109	124	120	128
R1771559-8 CCV	08:04:03	103	120	121	119	154
R1771559-9 CCB	08:08:45	102	107	121	120	129
R1771559-11 CCV	09:05:05	88	91	93	89	102
R1771559-12 CCB	09:10:31	84	84	93	87	99
WG1859880-1 BLANK	09:15:31	82	84	95	92	97
WG1859880-3 MS	09:24:45	78	82	94	91	95
WG1859880-4 MSD	09:29:23	77	80	94	88	93
WG1859880-6 SERDIL	09:38:40	76	81	94	89	96
L2370783-04	09:45:15	77	85	95	91	98
L2370783-01	09:49:53	74	81	95	88	95
L2370783-02	09:54:30	76	80	93	88	90
L2370783-03	09:59:07	74	79	92	87	90
R1771559-13 CCV	10:03:45	71	82	90	86	94
R1771559-14 CCB	10:08:27	71	75	90	85	91
WG1859880-7 MS	10:26:30	74	78	91	85	91
WG1859880-2 LCS	10:34:39	74	82	93	88	95
WG1859880-8 MSD	10:39:16	73	78	96	91	93
WG1859880-10 SERDIL	10:48:33	72	78	93	85	91
L2370783-05	10:57:49	75	80	98	90	92
L2370783-06	11:02:27	71	78	96	89	89

Form 15
ICP-MS Internal Standards Relative Intensity Summary

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: ICPMSQ	**Analysis Method**	: 1,6020B
Start Date	: 12/06/23	**End Date**	: 12/06/23

Sample #	Time	Internal Standards %RI For:				
		Lithium	Scandium	Ge	In	Bismuth
L2370783-07	11:07:06	72	78	95	89	89
R1771559-15 CCV	11:11:44	69	82	91	87	94
R1771559-16 CCB	11:17:05	68	72	87	84	89
L2370783-08	11:24:52	72	78	94	88	97
L2370783-09	11:29:31	74	79	96	90	93
L2370783-11	11:34:10	74	78	94	89	94
R1771559-17 CCV	12:02:43	68	80	93	85	93
R1771559-18 CCB	12:07:26	67	72	89	85	91

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9836-1
Page: 1

METALS by 6020B (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	0.01	0.00327	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony, Total	7440-36-0	0.004	0.000429	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic, Total	7440-38-2	0.0005	0.000165	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium, Total	7440-39-3	0.0005	0.000173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium, Total	7440-41-7	0.0005	0.000107	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium, Total	7440-43-9	0.0002	0.0000599	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium, Total	7440-70-2	0.1	0.0394	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium, Total	7440-47-3	0.001	0.000178	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt, Total	7440-48-4	0.0005	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper, Total	7440-50-8	0.001	0.000384	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lithium, Total	7439-93-2	0.001	0.000083	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron, Total	7439-89-6	0.05	0.0191	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead, Total	7439-92-1	0.001	0.000343	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium, Total	7439-95-4	0.07	0.0242	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese, Total	7439-96-5	0.001	0.00044	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel, Total	7440-02-0	0.002	0.000556	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium, Total	7440-09-7	0.1	0.0309	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium, Total	7782-49-2	0.005	0.00173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver, Total	7440-22-4	0.0004	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium, Total	7440-23-5	0.1	0.0293	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium, Total	7440-28-0	0.0005	0.000143	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium, Total	7440-62-2	0.005	0.00157	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc, Total	7440-66-6	0.01	0.00341	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

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

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 6020B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	10	1.48	mg/kg	48-151	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Antimony, Total	7440-36-0	0.16	0.01352	mg/kg	1-208	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Arsenic, Total	7440-38-2	0.05	0.0066	mg/kg	79-121	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Barium, Total	7440-39-3	0.3	0.02112	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Beryllium, Total	7440-41-7	0.03	0.00872	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Cadmium, Total	7440-43-9	0.02	0.00264	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Calcium, Total	7440-70-2	50	6.08	mg/kg	81-119	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Chromium, Total	7440-47-3	0.2	0.0468	mg/kg	80-120	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Cobalt, Total	7440-48-4	0.05	0.00532	mg/kg	84-115	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Copper, Total	7440-50-8	0.2	0.0194	mg/kg	81-118	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Iron, Total	7439-89-6	20	2.06	mg/kg	45-155	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Lead, Total	7439-92-1	0.06	0.0146	mg/kg	81-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Magnesium, Total	7439-95-4	10	1.232	mg/kg	76-124	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Manganese, Total	7439-96-5	0.2	0.0444	mg/kg	81-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Nickel, Total	7440-02-0	0.1	0.02672	mg/kg	83-117	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Potassium, Total	7440-09-7	10	1.588	mg/kg	71-129	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Selenium, Total	7782-49-2	0.2	0.0756	mg/kg	78-122	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Silver, Total	7440-22-4	0.05	0.00488	mg/kg	75-124	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Sodium, Total	7440-23-5	15	1.172	mg/kg	72-127	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Thallium, Total	7440-28-0	0.02	0.00516	mg/kg	80-120	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Vanadium, Total	7440-62-2	0.1	0.03792	mg/kg	78-122	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv
Zinc, Total	7440-66-6	1	0.26	mg/kg	82-118	20	75-125	20	20		180 days	Metals Only-Glass 60mL/2oz unpreserv

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

Performance Report

System

Start time:	12/5/2023 5:02:40 AM
Instrument:	iCAP Q
Operator:	ALPHALAB\Metals-Instrument
Template:	STD AGD
Instrument Serial Number:	03031R
Last Autotune:	Autotune-SourceTune High Matrix-20231126-105338396.imatdat
Solution:	1 ppb Tune B in 2% HNO3 and 0.5% HCl.

Sensitivity & Stability Test

Result	Runs	Sweeps
Passed	5	10

Sensitivity

Analyte	Result	Value	Condition	Limit
Bkg4.5	Passed	1.8 CPS	Less than	5.0 CPS
Bkg220.7	Passed	0.2 CPS	Less than	5.0 CPS
7Li	Passed	26,141.0 CPS	Greater than	10,000.0 CPS
59Co	Passed	51,009.0 CPS	Greater than	1,000.0 CPS
238U	Passed	93,660.0 CPS	Greater than	20,000.0 CPS
140Ce.16O/140Ce	Passed	0.0129	Less than	0.025
137Ba++/137Ba	Passed	0.0161	Less than	0.034
115In	Passed	54,600.0 CPS	Greater than	5,000.0 CPS

Stability

Analyte	Value	Limit
7Li	1.3%	5
59Co	1.1%	5
238U	0.8%	5
140Ce.16O	2.1%	2
140Ce	1.5%	2
115In	1.4%	5

Mass Calibration Test

Result	Channels	Dwell	MeasureWidth	PointSpacing	Sweeps
Passed	75	0.04	1.5	0.02	10

Analyte	Result	Centroid Mass [u]	Offset	Peak width [u]	Peak width min [u]	Peak width max [u]
7Li	Passed	7.0276	0.0116	0.717	0.600	0.900
59Co	Passed	58.9192	0.0140	0.718	0.600	0.900
115In	Passed	114.8763	0.0275	0.730	0.600	0.900
238U	Passed	238.0136	0.0372	0.738	0.600	0.900

Tune Settings

Parameter	Value
Additional Gas Flow 1	36.75
Additional Gas Flow 2	0.00
Additional Gas Flow 3	0.00
Angular Deflection	-374.00
Auxilliary Flow	0.80
CCT Bias	0.56
CCT Entry Lens	-89.99
CCT Exit Lens	-160.01
CCT Focus Lens	-2.00
CCT1 Flow	0.00
CCT1 Shut-Off Valve	0.00
CCT2 Flow	0.00
CCT2 Shut-Off Valve	0.00
Cool Flow	14.00
D1 Lens	-198.39
D2 Lens	-80.00
Deflection Entry Lens	-35.00
Dry Pump Speed	0.00
Extraction Lens 1 Negative	0.00
Extraction Lens 1 Polarity	0.00
Extraction Lens 1 Positive	0.00
Extraction Lens 2	-145.05
Focus Lens	21.00
Nebulizer Flow	0.38
Peristaltic Pump Speed	17.00
Plasma Power	1550.00
Pole Bias	3.01
Quad Entry Lens	-25.20
Sampling Depth	5.00
Spray Chamber Temperature	2.70
Torch Horizontal Position	-0.39
Torch Vertical Position	1.30
Virtual CCT Mass Maximum Dac Limit Set	4095.00
Virtual CCT Mass parameter b	0.65
Virtual CCT Mass to Dac Factor	130.00
Virtual CCT Mass to Dac Offset	-200.00

Vacuum Check

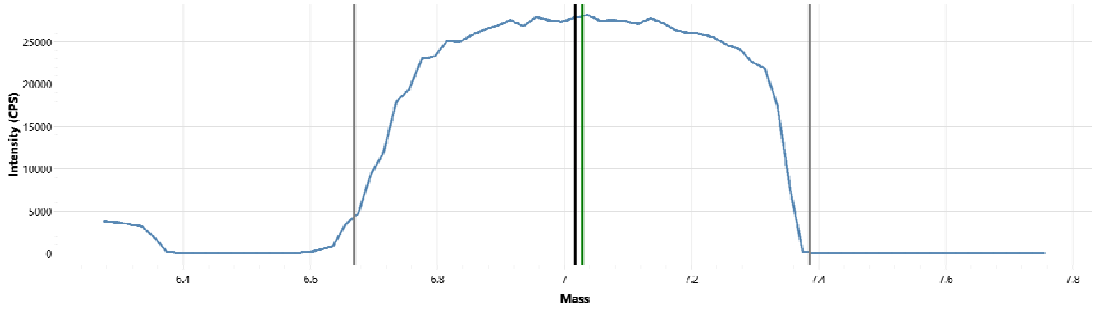
Parameter	Result	Value
Analyzer Pressure	Vacuum ok	2.196e-7
Interface Pressure		1.617e+0

Detector Voltages

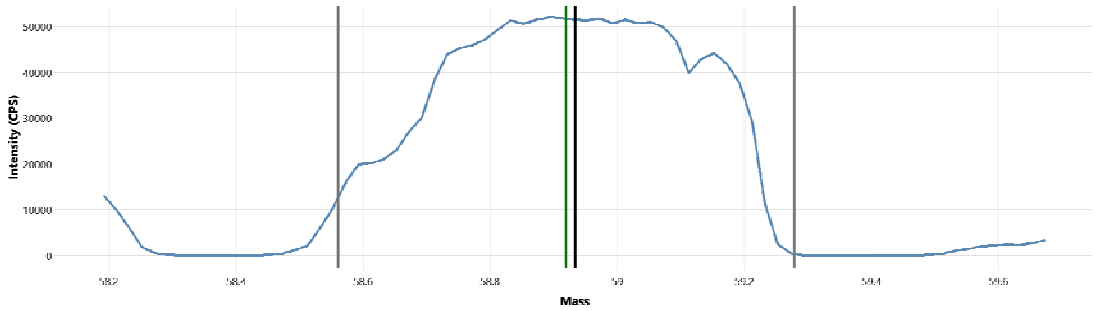
Analog	Counting
-2425.00	2075.00

Mass Calibration Peaks

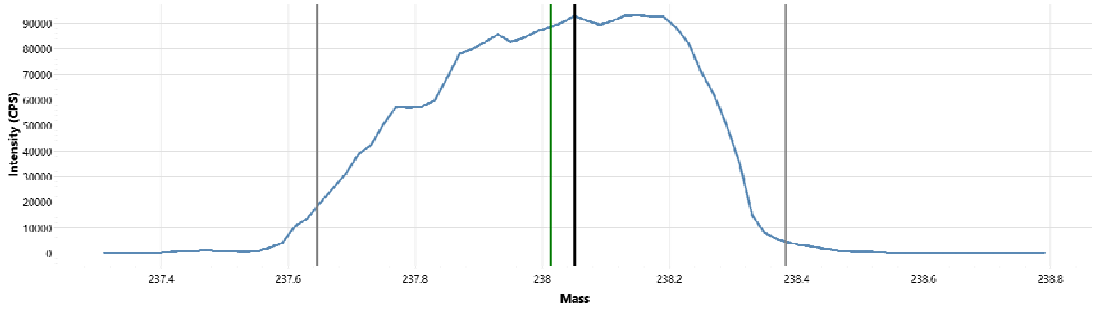
Analyte: 7Li



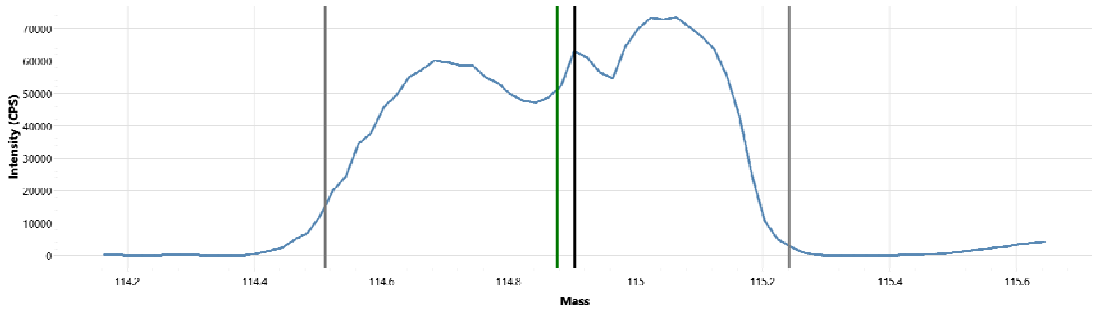
Analyte: 59Co



Analyte: 238U



Analyte: 115In



Performance Report

System

Start time:	12/6/2023 4:57:10 AM
Instrument:	iCAP Q
Operator:	ALPHALAB\Metals-Instrument
Template:	STD AGD
Instrument Serial Number:	03031R
Last Autotune:	Autotune-SourceTune High Matrix-20231126-105338396.imatdat
Solution:	1 ppb Tune B in 2% HNO3 and 0.5% HCl.

Sensitivity & Stability Test

Result	Runs	Sweeps
Passed	5	10

Sensitivity

Analyte	Result	Value	Condition	Limit
Bkg4.5	Passed	2.0 CPS	Less than	5.0 CPS
Bkg220.7	Passed	0.0 CPS	Less than	5.0 CPS
7Li	Passed	26,699.0 CPS	Greater than	10,000.0 CPS
59Co	Passed	54,145.0 CPS	Greater than	1,000.0 CPS
238U	Passed	99,756.0 CPS	Greater than	20,000.0 CPS
140Ce.16O/140Ce	Passed	0.0142	Less than	0.025
137Ba++/137Ba	Passed	0.0155	Less than	0.034
115In	Passed	54,566.0 CPS	Greater than	5,000.0 CPS

Stability

Analyte	Value	Limit
7Li	0.6%	5
59Co	1.1%	5
238U	0.9%	5
140Ce.16O	7.3%	2
140Ce	1.5%	2
115In	1.7%	5

Mass Calibration Test

Result	Channels	Dwell	MeasureWidth	PointSpacing	Sweeps
Passed	75	0.04	1.5	0.02	10

Analyte	Result	Centroid Mass [u]	Offset	Peak width [u]	Peak width min [u]	Peak width max [u]
7Li	Passed	7.0285	0.0125	0.715	0.600	0.900
59Co	Passed	58.9181	0.0151	0.719	0.600	0.900
115In	Passed	114.8726	0.0313	0.733	0.600	0.900
238U	Passed	238.0053	0.0455	0.738	0.600	0.900

Tune Settings

Parameter	Value
Additional Gas Flow 1	36.75
Additional Gas Flow 2	0.00
Additional Gas Flow 3	0.00
Angular Deflection	-374.00
Auxilliary Flow	0.80
CCT Bias	0.56
CCT Entry Lens	-89.99
CCT Exit Lens	-160.01
CCT Focus Lens	-2.00
CCT1 Flow	0.00
CCT1 Shut-Off Valve	0.00
CCT2 Flow	0.00
CCT2 Shut-Off Valve	0.00
Cool Flow	14.00
D1 Lens	-198.39
D2 Lens	-80.00
Deflection Entry Lens	-35.00
Dry Pump Speed	0.00
Extraction Lens 1 Negative	0.00
Extraction Lens 1 Polarity	0.00
Extraction Lens 1 Positive	0.00
Extraction Lens 2	-145.05
Focus Lens	21.00
Nebulizer Flow	0.38
Peristaltic Pump Speed	17.00
Plasma Power	1550.00
Pole Bias	3.01
Quad Entry Lens	-25.20
Sampling Depth	5.00
Spray Chamber Temperature	2.70
Torch Horizontal Position	-0.39
Torch Vertical Position	1.30
Virtual CCT Mass Maximum Dac Limit Set	4095.00
Virtual CCT Mass parameter b	0.65
Virtual CCT Mass to Dac Factor	130.00
Virtual CCT Mass to Dac Offset	-200.00

Vacuum Check

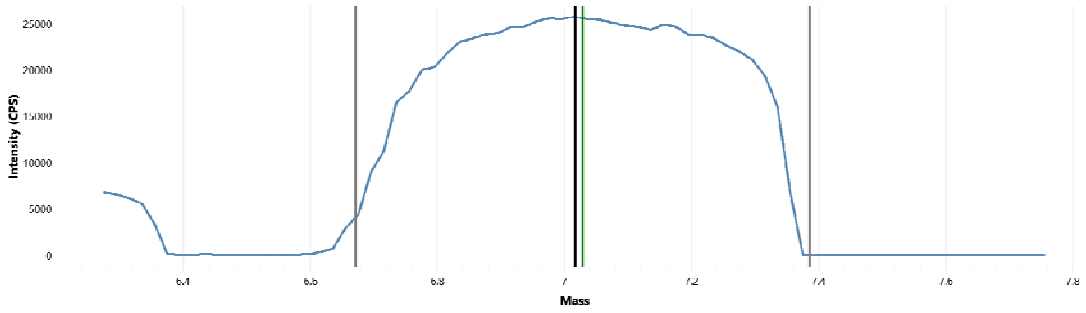
Parameter	Result	Value
Analyzer Pressure	Vacuum ok	2.196e-7
Interface Pressure		1.617e+0

Detector Voltages

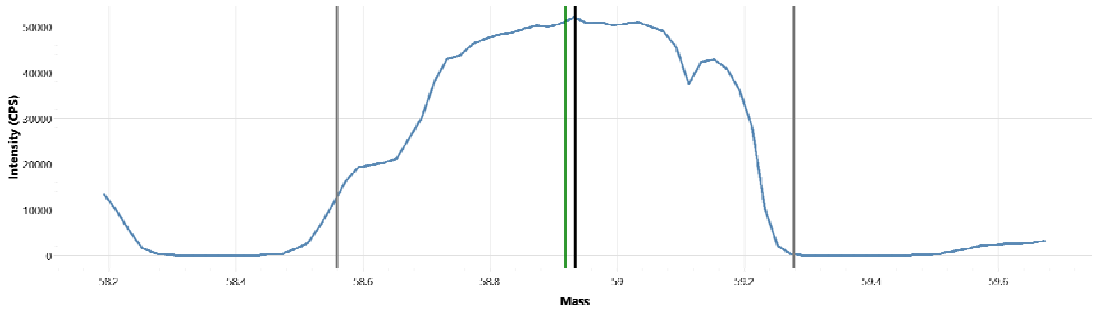
Analog	Counting
-2425.00	2075.00

Mass Calibration Peaks

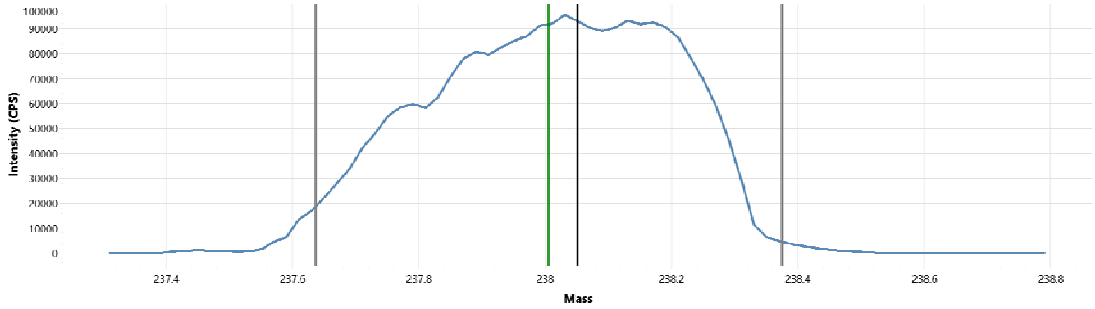
Analyte: 7Li



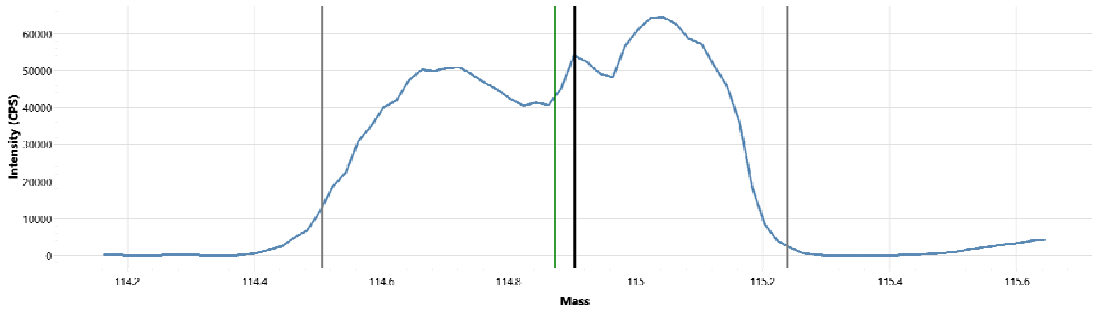
Analyte: 59Co



Analyte: 238U

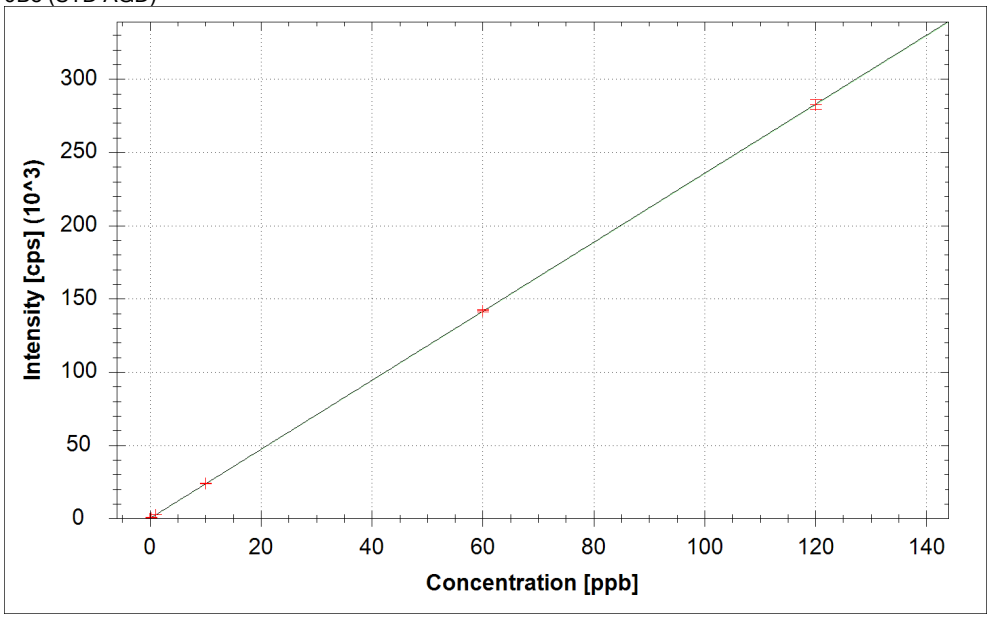


Analyte: 115In



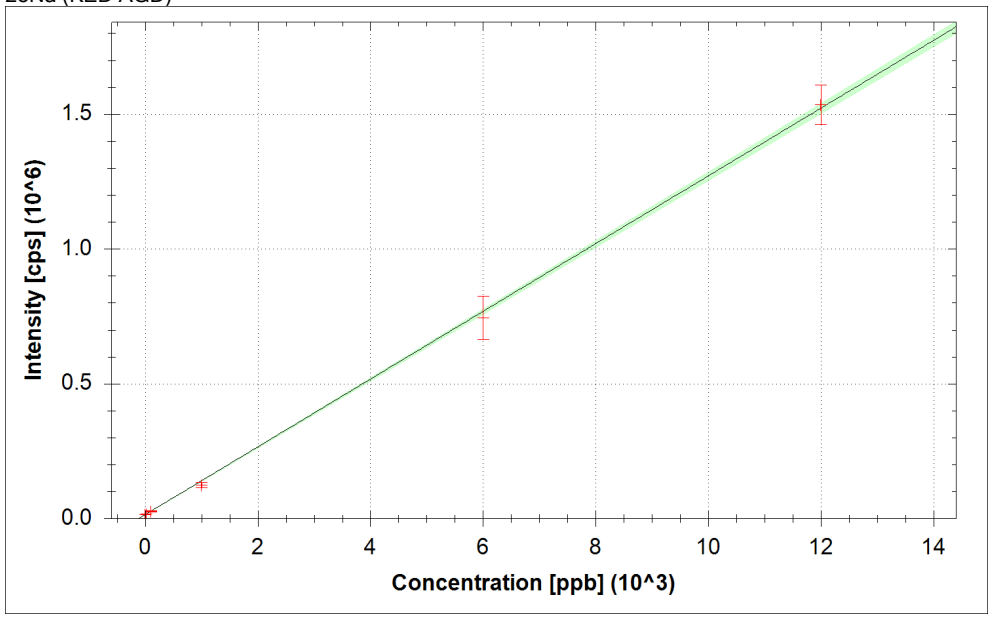
Calibration Curves:

9Be (STD AGD)



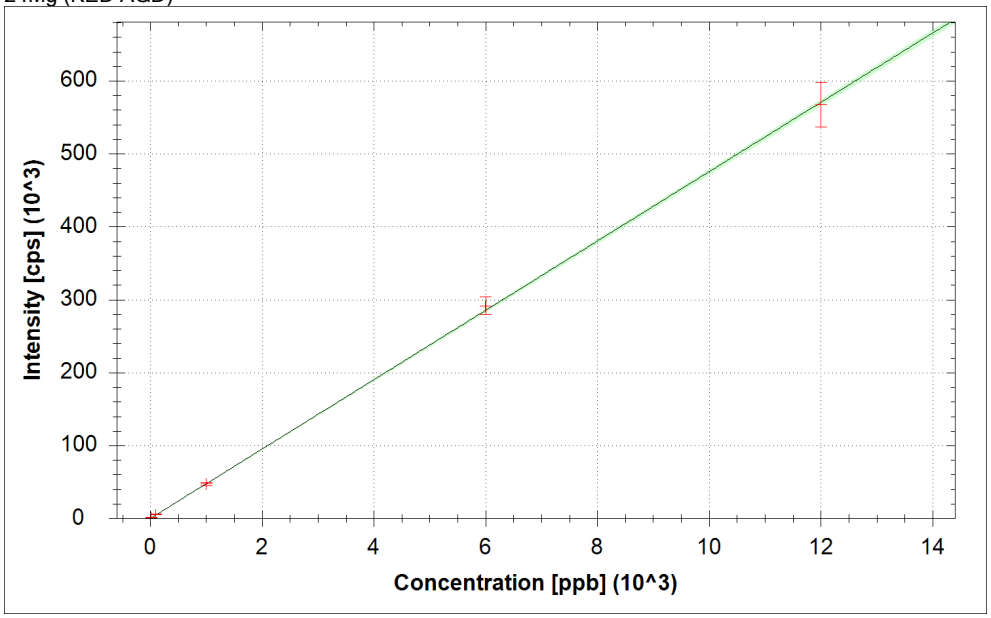
f(x) = 2355.7872*x + 50.2687
R² = 1.0000
BEC = 0.021 ppb
LoD = 0.0114 ppb

23Na (KED AGD)



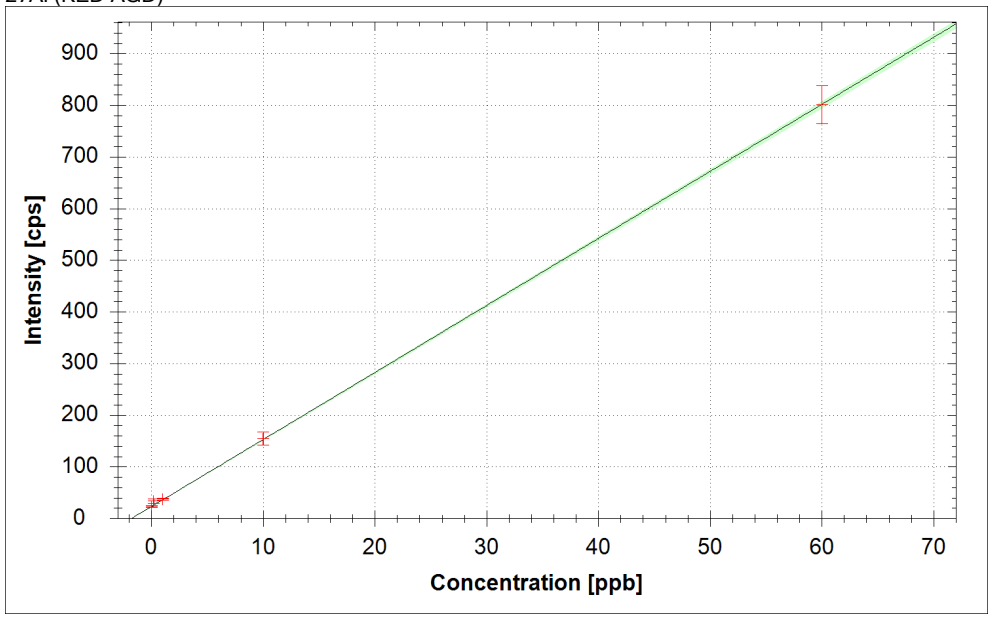
f(x) = 125.6160*x + 14199.4461
R² = 0.9995
BEC = 113.038 ppb
LoD = 15.4828 ppb

24Mg (KED AGD)



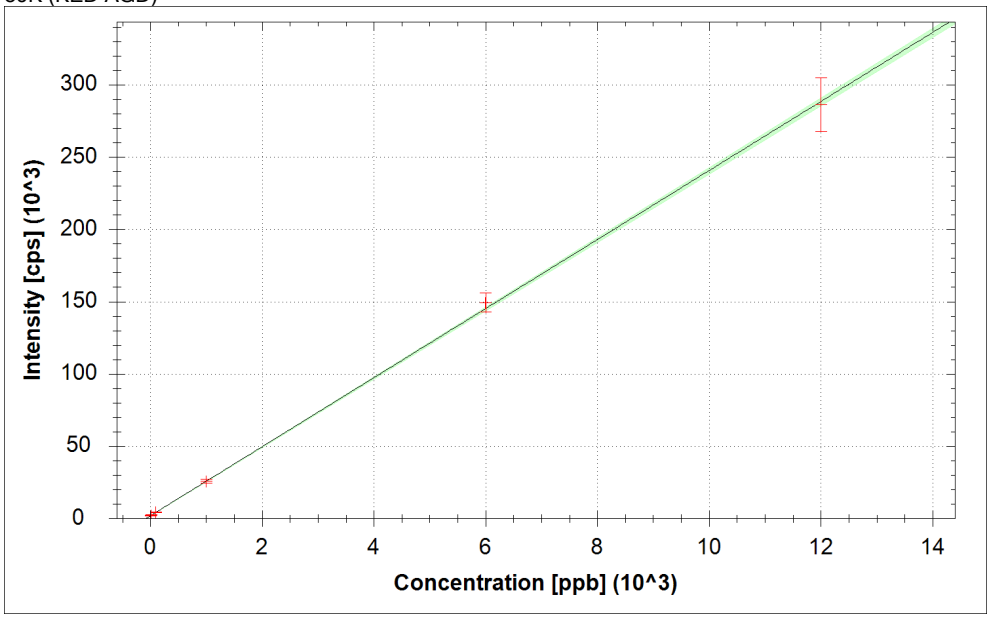
f(x) = 47.5256*x + 64.4385
R² = 0.9998
BEC = 1.356 ppb
LoD = 1.6744 ppb

27Al (KED AGD)



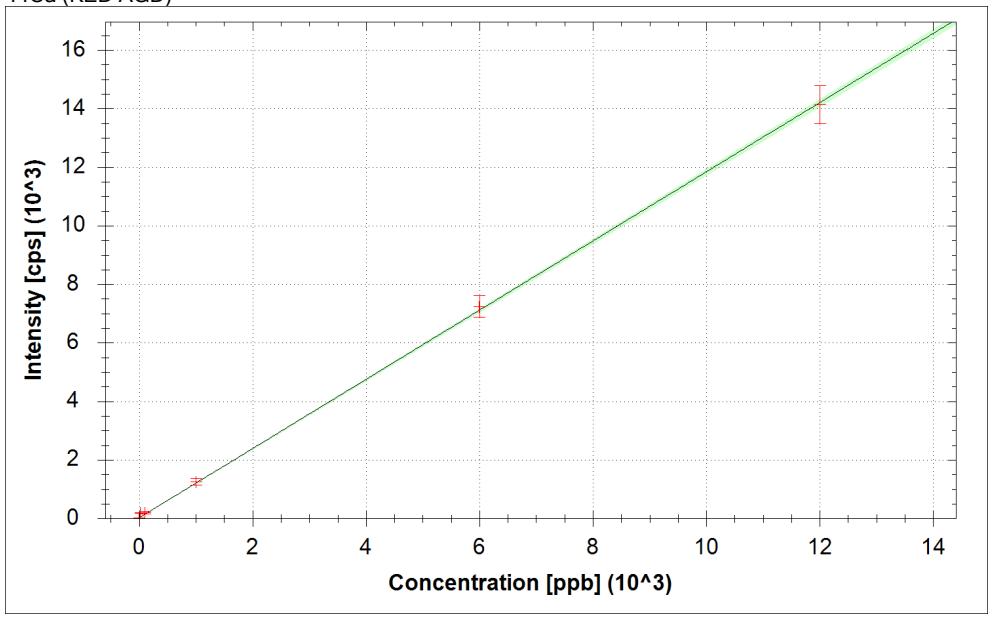
f(x) = 12.9750*x + 22.8791
R² = 0.9998
BEC = 1.763 ppb
LoD = 0.4435 ppb

39K (KED AGD)



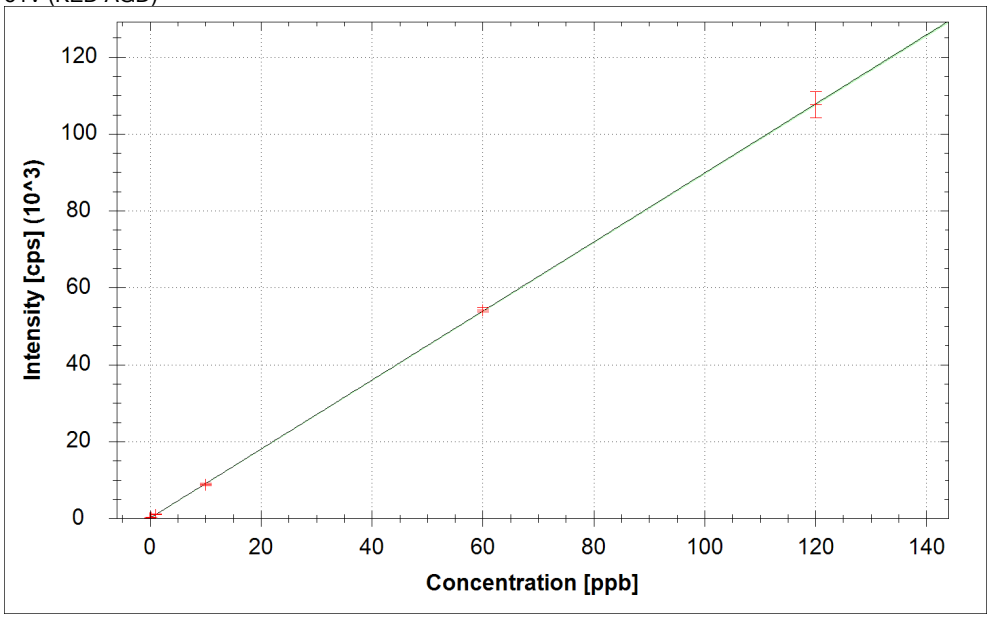
f(x) = 23.8693*x + 1847.3048
R² = 0.9997
BEC = 77.393 ppb
LoD = 30.9518 ppb

44Ca (KED AGD)



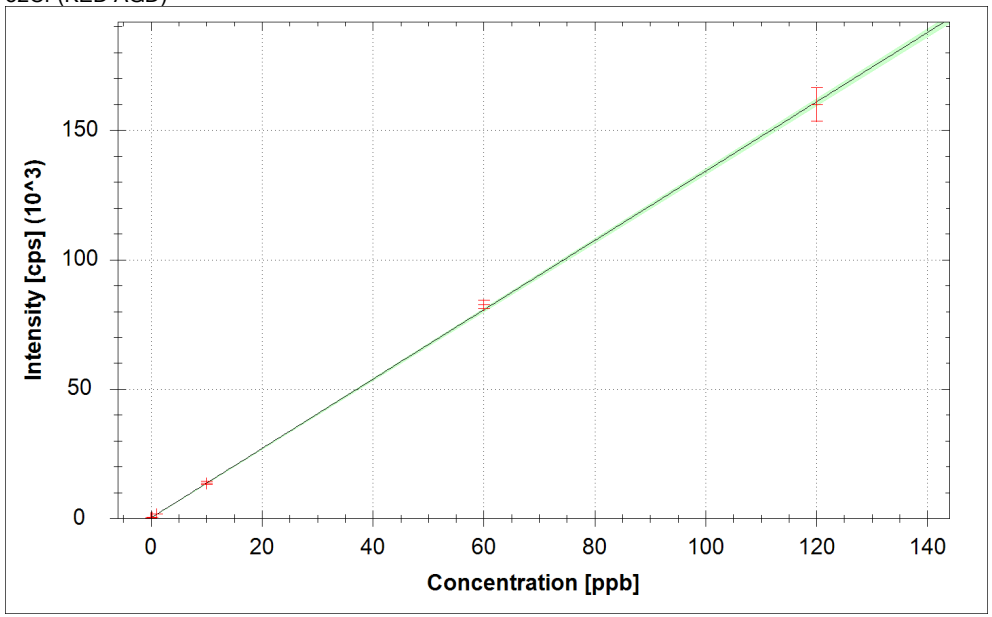
f(x) = 1.1817*x + 22.8541
R² = 0.9997
BEC = 19.340 ppb
LoD = 6.9295 ppb

51V (KED AGD)



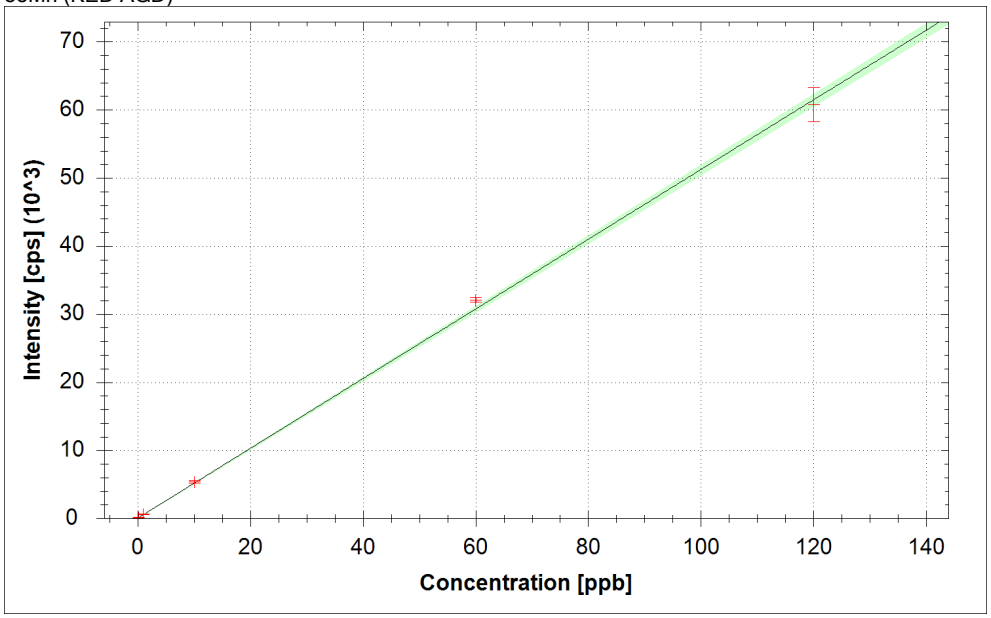
f(x) = 897.1615*x + 80.0835
R² = 1.0000
BEC = 0.089 ppb
LoD = 0.1170 ppb

52Cr (KED AGD)



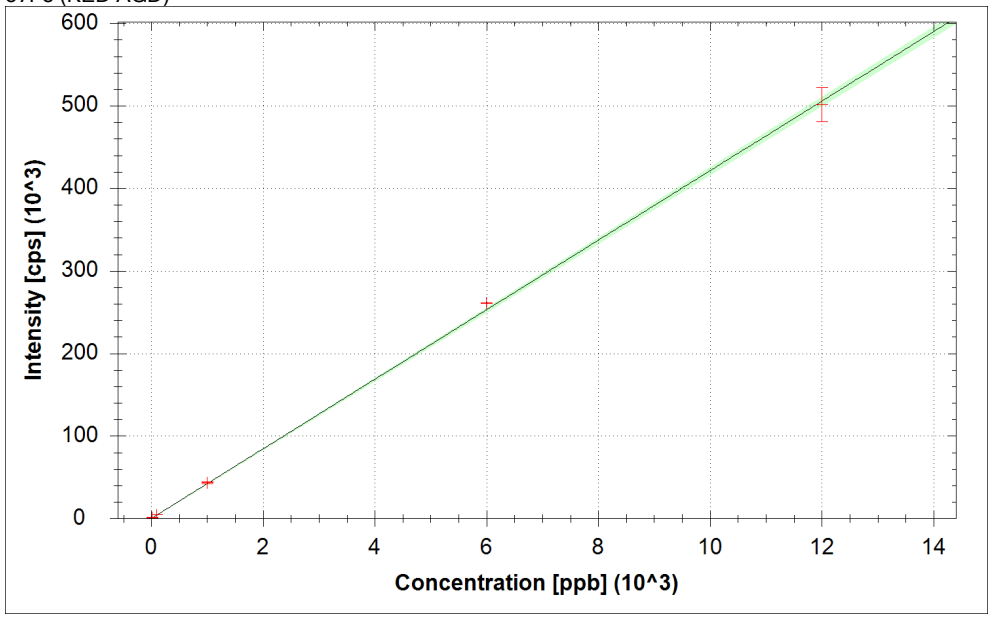
f(x) = 1339.1646*x + 225.5589
R² = 0.9997
BEC = 0.168 ppb
LoD = 0.0093 ppb

55Mn (KED AGD)



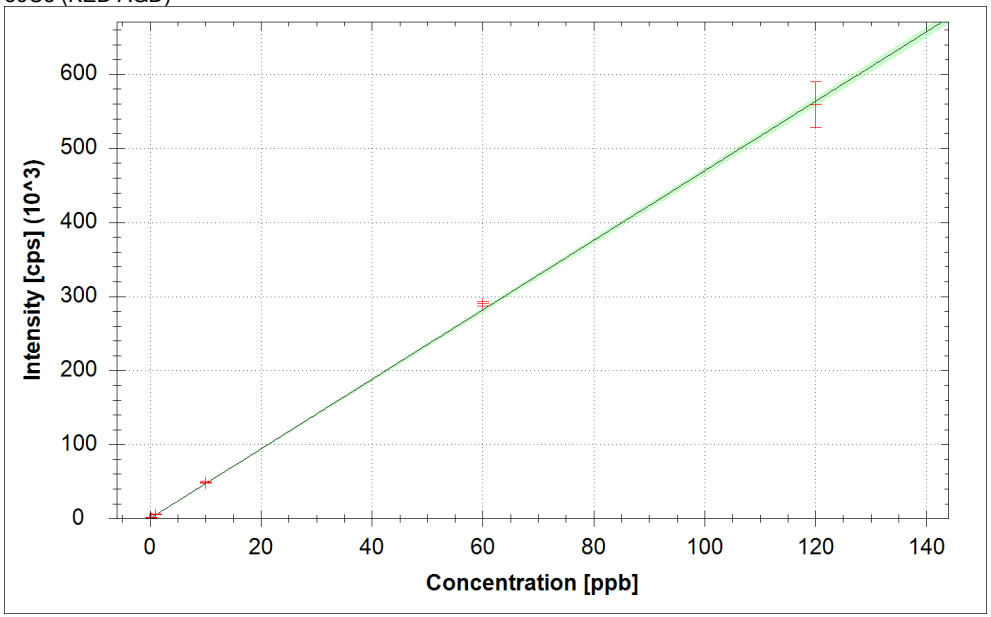
f(x) = 511.4857*x + 66.8991
R² = 0.9993
BEC = 0.131 ppb
LoD = 0.2496 ppb

57Fe (KED AGD)



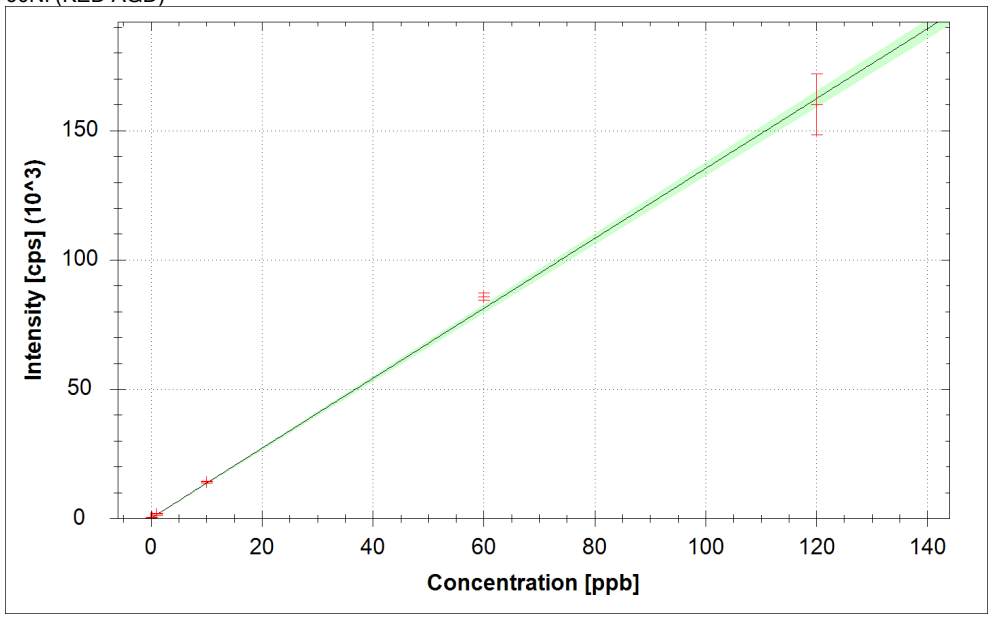
f(x) = 42.1190*x + 62.3700
R² = 0.9996
BEC = 1.481 ppb
LoD = 1.1629 ppb

59Co (KED AGD)



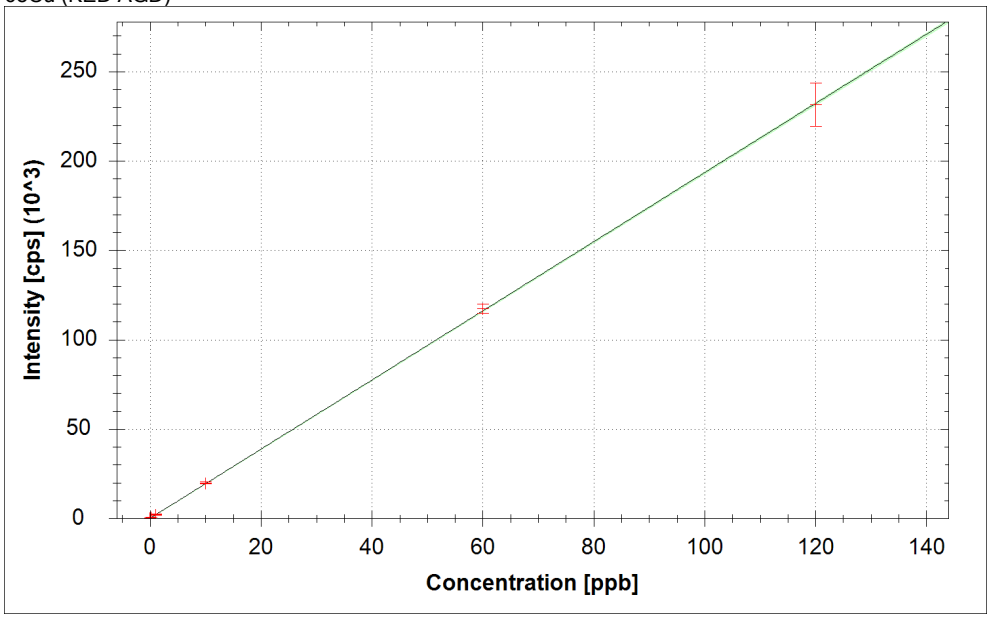
f(x) = 4692.7792*x + 53.5071
R² = 0.9997
BEC = 0.011 ppb
LoD = 0.0201 ppb

60Ni (KED AGD)



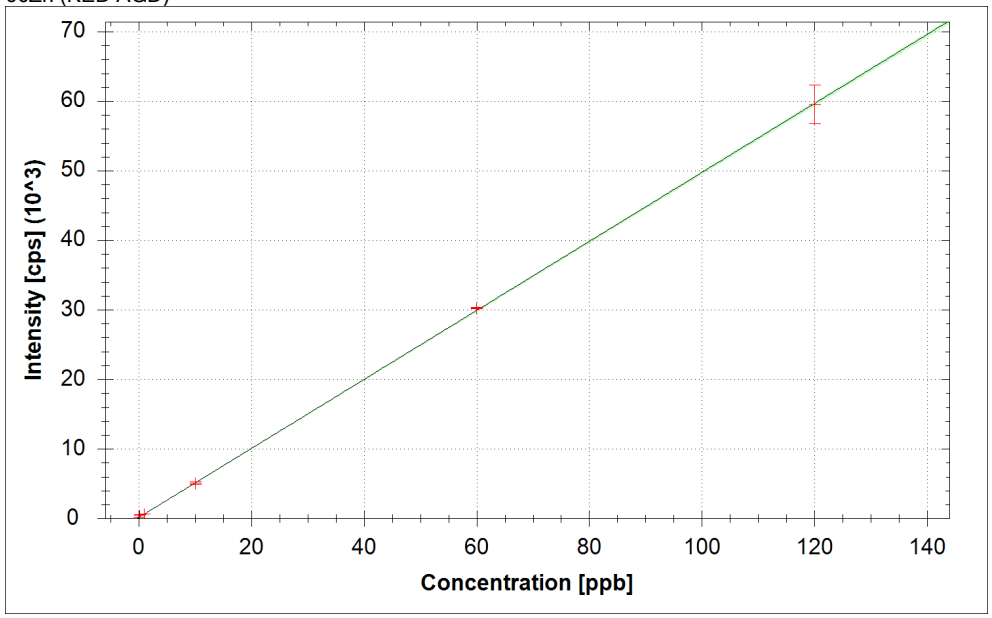
f(x) = 1351.5612*x + 92.4492
R² = 0.9988
BEC = 0.068 ppb
LoD = 0.1225 ppb

65Cu (KED AGD)



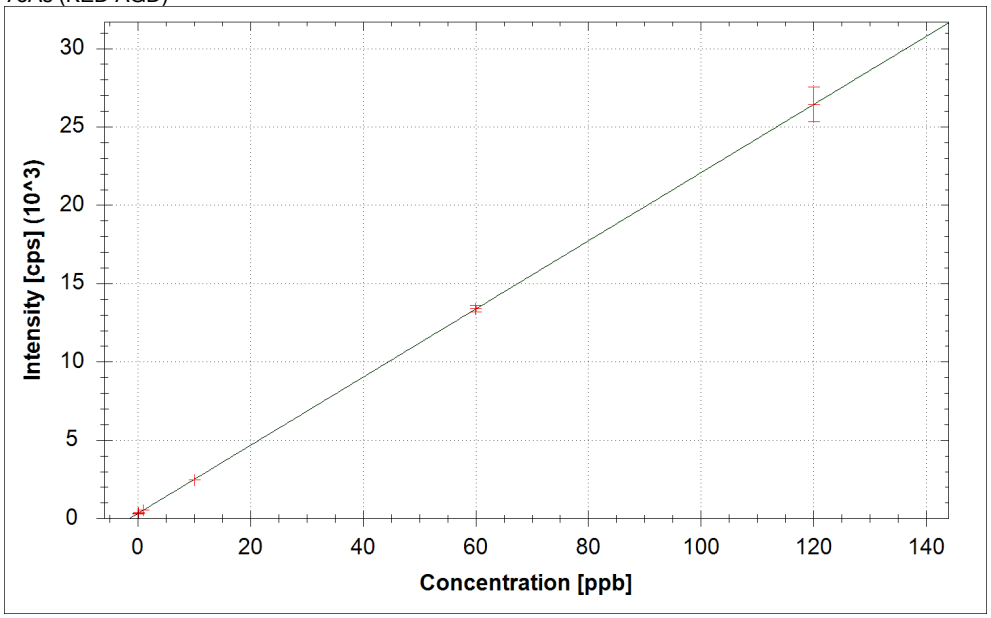
f(x) = 1933.4842*x + 97.8766
R² = 1.0000
BEC = 0.051 ppb
LoD = 0.0480 ppb

66Zn (KED AGD)



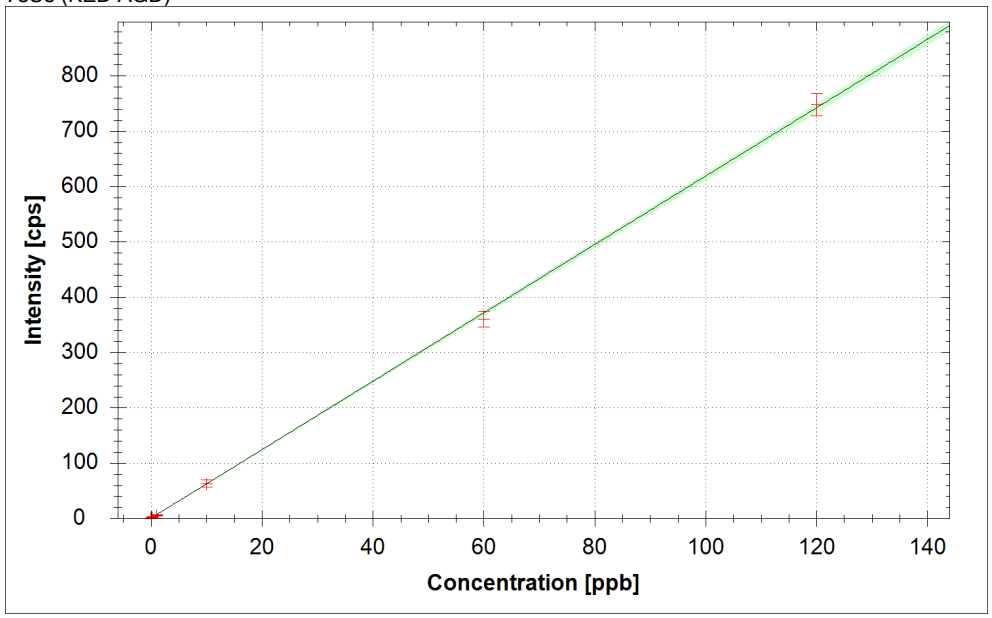
f(x) = 495.8312*x + 152.8231
R² = 0.9999
BEC = 0.308 ppb
LoD = 0.0292 ppb

75As (KED AGD)



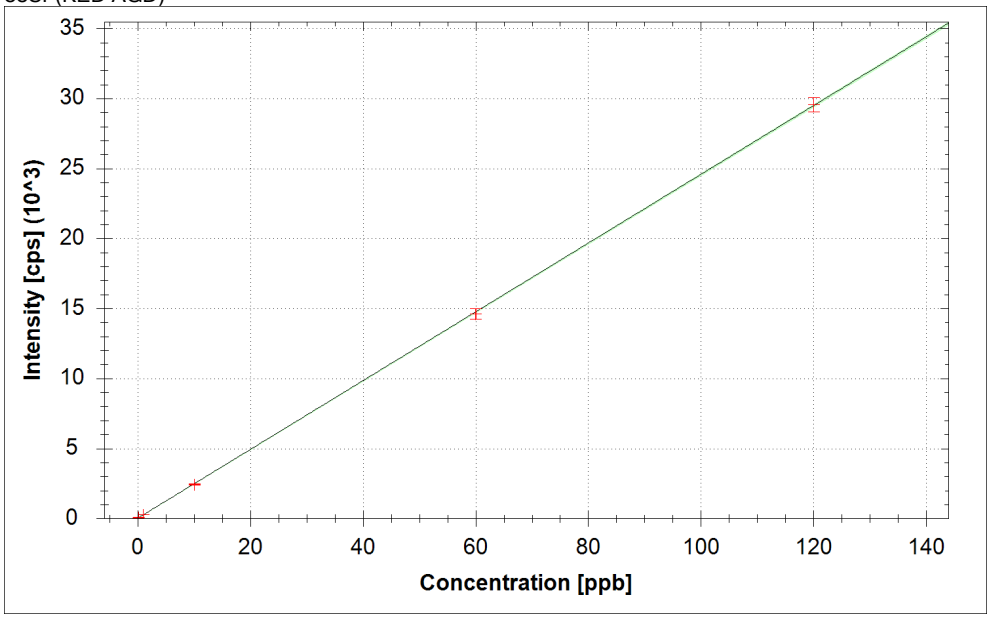
f(x) = 217.4548*x + 315.3377
R² = 1.0000
BEC = 1.450 ppb
LoD = 0.2470 ppb

78Se (KED AGD)



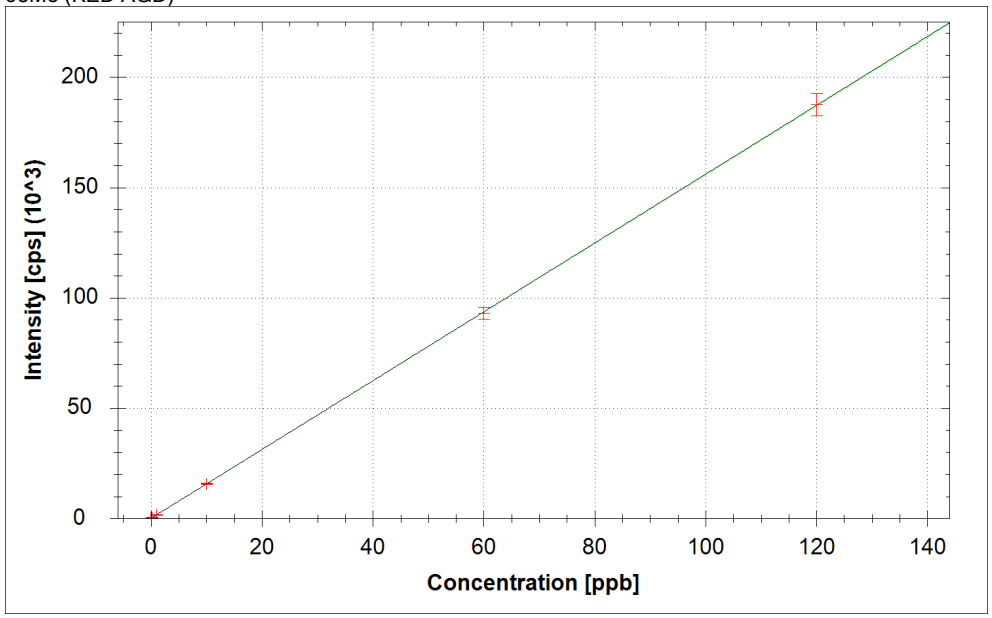
f(x) = 6.1783*x + 0.7659
R² = 0.9996
BEC = 0.124 ppb
LoD = 0.2513 ppb

88Sr (KED AGD)



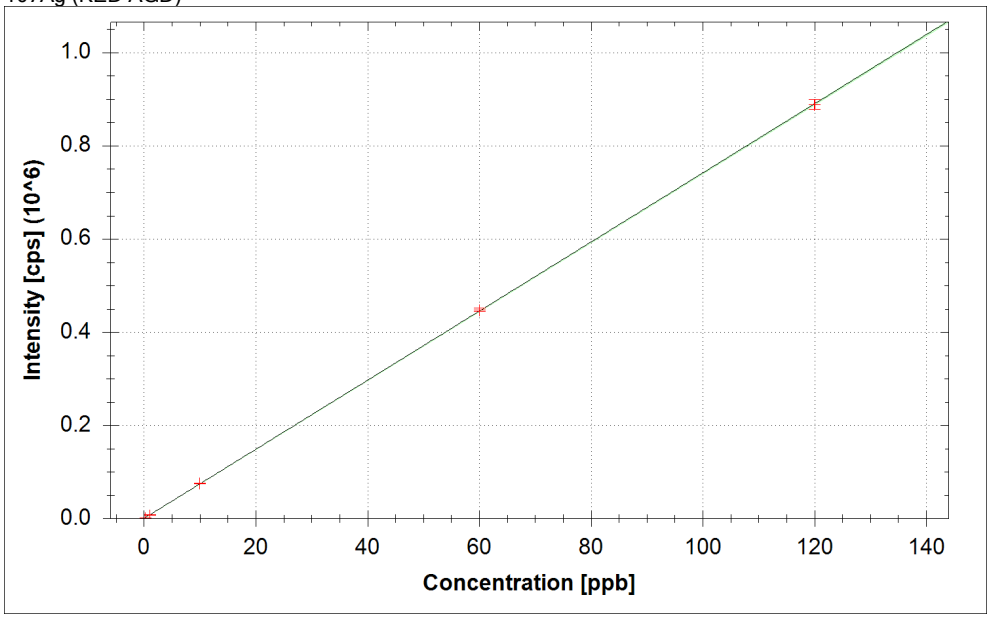
f(x) = 245.5442*x + 25.9448
R² = 1.0000
BEC = 0.106 ppb
LoD = 0.0087 ppb

95Mo (KED AGD)



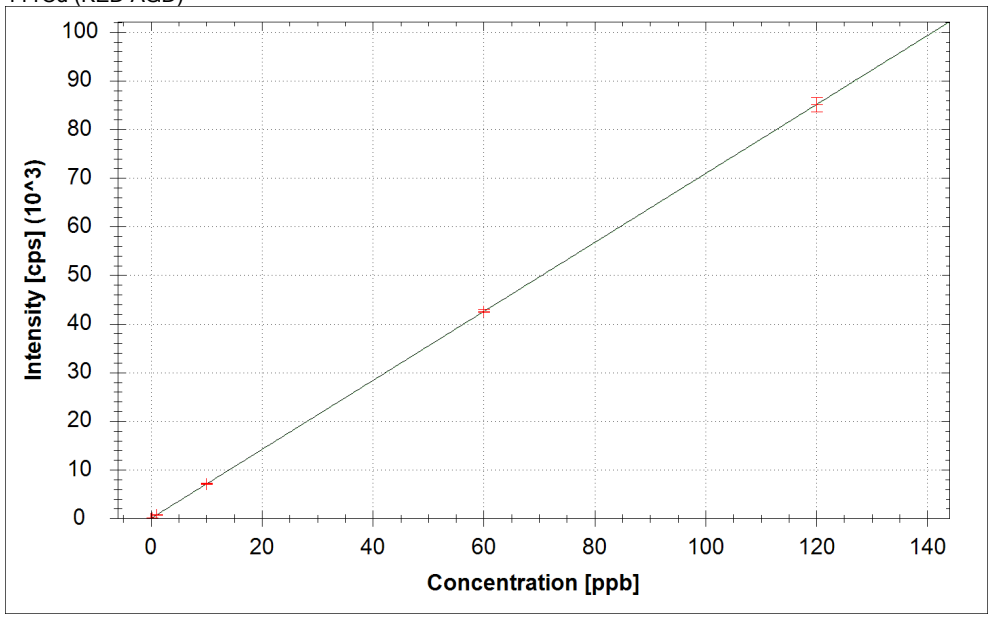
f(x) = 1559.3998*x + 66.8003
R² = 1.0000
BEC = 0.043 ppb
LoD = 0.0354 ppb

107Ag (KED AGD)



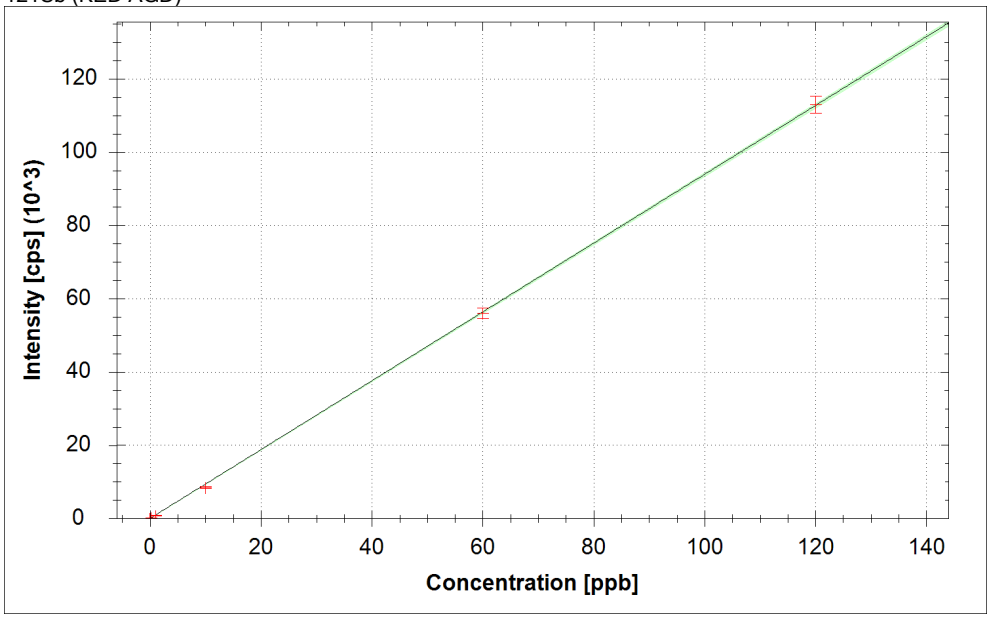
f(x) = 7414.9637*x + 11.1020
R² = 1.0000
BEC = 0.001 ppb
LoD = 0.0041 ppb

111Cd (KED AGD)



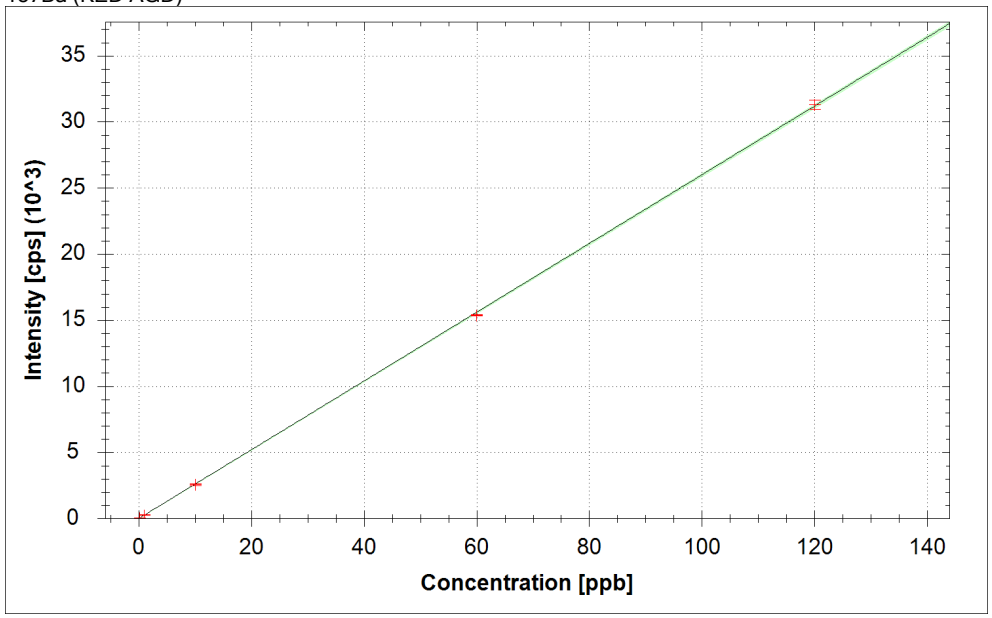
f(x) = 709.2608*x + 1.3241
R² = 1.0000
BEC = 0.002 ppb
LoD = 0.0055 ppb

121Sb (KED AGD)



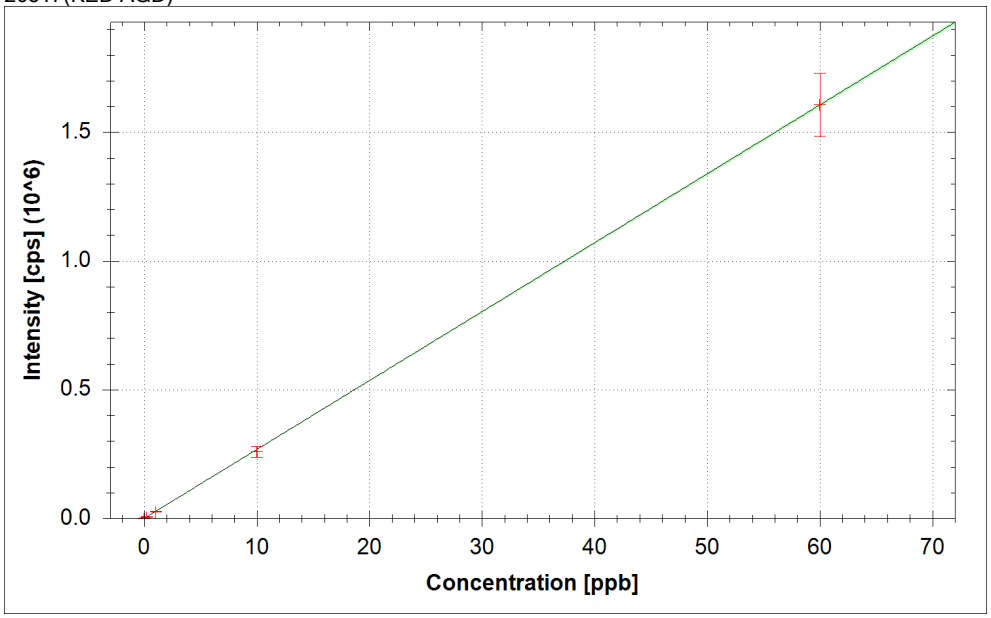
f(x) = 939.0118*x + 17.7993
R² = 0.9999
BEC = 0.019 ppb
LoD = 0.0177 ppb

137Ba (KED AGD)



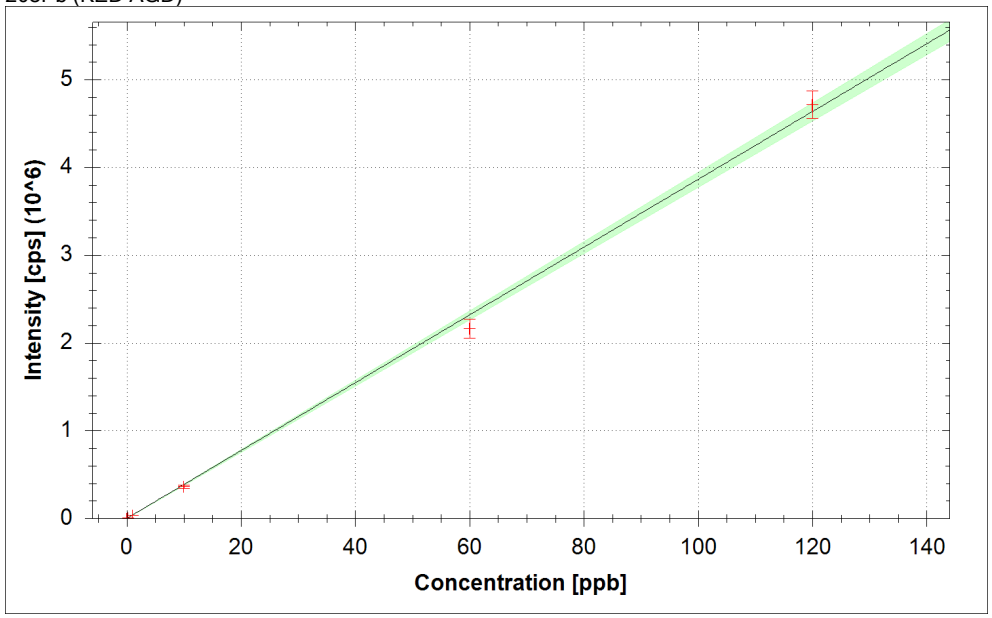
f(x) = 259.8322*x + 3.3341
R² = 0.9999
BEC = 0.013 ppb
LoD = 0.0007 ppb

205Tl (KED AGD)



f(x) = 26757.6255*x + 447.5989
R² = 1.0000
BEC = 0.017 ppb
LoD = 0.0133 ppb

208Pb (KED AGD)



f(x) = 38623.1253*x + 204.6257
R² = 0.9983
BEC = 0.005 ppb
LoD = 0.0019 ppb

Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 12/5/2023 5:42:35 AM
Total Dilution Factor 50000
Rack 0
Vial 2

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	96.812 %	1.9 %	
6Li (KED AGD)	107.478 %	6.6 %	
9Be (STD AGD)	0.205 ppb	3.1 %	0.200 ppb
23Na (KED AGD)	14.612 ppb	28.5 %	20.000 ppb
24Mg (KED AGD)	21.941 ppb	7.1 %	20.000 ppb
27Al (KED AGD)	0.805 ppb	43.7 %	0.200 ppb
39K (KED AGD)	18.342 ppb	42.7 %	20.000 ppb
44Ca (KED AGD)	141.228 ppb	8.1 %	20.000 ppb
45Sc (STD AGD)	98.870 %	0.8 %	
51V (KED AGD)	0.223 ppb	2.5 %	0.200 ppb
52Cr (KED AGD)	0.234 ppb	3.0 %	0.200 ppb
55Mn (KED AGD)	0.199 ppb	40.6 %	0.200 ppb
57Fe (KED AGD)	22.124 ppb	4.3 %	20.000 ppb
59Co (KED AGD)	0.205 ppb	7.5 %	0.200 ppb
60Ni (KED AGD)	0.252 ppb	11.0 %	0.200 ppb
65Cu (KED AGD)	0.264 ppb	19.2 %	0.200 ppb
66Zn (KED AGD)	0.682 ppb	11.4 %	0.200 ppb
74Ge (KED AGD)	99.672 %	3.2 %	
75As (KED AGD)	0.148 ppb	42.4 %	0.200 ppb
78Se (KED AGD)	0.156 ppb	107.6 %	0.200 ppb
88Sr (KED AGD)	0.236 ppb	5.3 %	0.200 ppb
95Mo (KED AGD)	0.195 ppb	10.2 %	0.200 ppb
103Rh (KED AGD)	100.256 %	1.8 %	
107Ag (KED AGD)	0.212 ppb	4.5 %	0.200 ppb
111Cd (KED AGD)	0.185 ppb	12.7 %	0.200 ppb
115In (KED AGD)	97.417 %	4.2 %	
121Sb (KED AGD)	0.130 ppb	3.3 %	0.200 ppb
137Ba (KED AGD)	0.163 ppb	18.6 %	0.200 ppb
159Tb (KED AGD)	97.394 %	3.1 %	
175Lu (KED AGD)	99.678 %	2.6 %	
205Tl (KED AGD)	0.184 ppb	9.8 %	0.200 ppb
208Pb (KED AGD)	0.190 ppb	4.7 %	0.200 ppb
209Bi (KED AGD)	98.675 %	3.4 %	

Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 12/5/2023 5:47:12 AM
Total Dilution Factor 10000
Rack 0
Vial 3

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	95.841 %	2.0 %	
6Li (KED AGD)	101.267 %	4.6 %	
9Be (STD AGD)	0.996 ppb	2.6 %	1.000 ppb
23Na (KED AGD)	96.977 ppb	12.9 %	100.000 ppb
24Mg (KED AGD)	110.738 ppb	5.6 %	100.000 ppb
27Al (KED AGD)	1.104 ppb	15.1 %	1.000 ppb
39K (KED AGD)	99.419 ppb	6.7 %	100.000 ppb
44Ca (KED AGD)	139.271 ppb	28.5 %	100.000 ppb
45Sc (STD AGD)	99.341 %	1.0 %	
51V (KED AGD)	1.048 ppb	13.3 %	1.000 ppb
52Cr (KED AGD)	1.111 ppb	1.9 %	1.000 ppb
55Mn (KED AGD)	1.052 ppb	2.4 %	1.000 ppb
57Fe (KED AGD)	106.451 ppb	5.7 %	100.000 ppb
59Co (KED AGD)	1.099 ppb	6.8 %	1.000 ppb
60Ni (KED AGD)	1.102 ppb	19.5 %	1.000 ppb
65Cu (KED AGD)	1.042 ppb	13.4 %	1.000 ppb
66Zn (KED AGD)	1.001 ppb	4.8 %	1.000 ppb
74Ge (KED AGD)	99.857 %	0.8 %	
75As (KED AGD)	1.029 ppb	3.7 %	1.000 ppb
78Se (KED AGD)	0.832 ppb	26.7 %	1.000 ppb
88Sr (KED AGD)	0.968 ppb	4.3 %	1.000 ppb
95Mo (KED AGD)	0.982 ppb	4.4 %	1.000 ppb
103Rh (KED AGD)	98.110 %	0.9 %	
107Ag (KED AGD)	0.970 ppb	4.9 %	1.000 ppb
111Cd (KED AGD)	1.010 ppb	2.1 %	1.000 ppb
115In (KED AGD)	99.425 %	0.8 %	
121Sb (KED AGD)	0.764 ppb	3.7 %	1.000 ppb
137Ba (KED AGD)	0.977 ppb	14.0 %	1.000 ppb
159Tb (KED AGD)	97.527 %	0.6 %	
175Lu (KED AGD)	98.254 %	0.9 %	
205Tl (KED AGD)	0.949 ppb	8.7 %	1.000 ppb
208Pb (KED AGD)	0.922 ppb	5.9 %	1.000 ppb
209Bi (KED AGD)	96.869 %	4.9 %	

Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 12/5/2023 5:51:50 AM
Total Dilution Factor 1000
Rack 0
Vial 4

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	94.346 %	2.3 %	
6Li (KED AGD)	109.633 %	5.5 %	
9Be (STD AGD)	10.109 ppb	1.0 %	10.000 ppb
23Na (KED AGD)	872.950 ppb	8.6 %	1,000.000 ppb
24Mg (KED AGD)	989.469 ppb	4.3 %	1,000.000 ppb
27Al (KED AGD)	10.151 ppb	9.9 %	10.000 ppb
39K (KED AGD)	1,000.875 ppb	4.9 %	1,000.000 ppb
44Ca (KED AGD)	1,038.482 ppb	9.2 %	1,000.000 ppb
45Sc (STD AGD)	100.106 %	0.0 %	
51V (KED AGD)	9.739 ppb	4.7 %	10.000 ppb
52Cr (KED AGD)	10.040 ppb	4.7 %	10.000 ppb
55Mn (KED AGD)	10.351 ppb	4.2 %	10.000 ppb
57Fe (KED AGD)	1,024.394 ppb	3.3 %	1,000.000 ppb
59Co (KED AGD)	10.354 ppb	2.5 %	10.000 ppb
60Ni (KED AGD)	10.299 ppb	2.2 %	10.000 ppb
65Cu (KED AGD)	10.237 ppb	2.1 %	10.000 ppb
66Zn (KED AGD)	9.858 ppb	3.4 %	10.000 ppb
74Ge (KED AGD)	102.812 %	3.1 %	
75As (KED AGD)	9.901 ppb	0.4 %	10.000 ppb
78Se (KED AGD)	10.081 ppb	11.0 %	10.000 ppb
88Sr (KED AGD)	9.745 ppb	2.3 %	10.000 ppb
95Mo (KED AGD)	9.951 ppb	2.1 %	10.000 ppb
103Rh (KED AGD)	97.338 %	0.4 %	
107Ag (KED AGD)	10.127 ppb	1.6 %	10.000 ppb
111Cd (KED AGD)	9.980 ppb	2.3 %	10.000 ppb
115In (KED AGD)	96.327 %	3.8 %	
121Sb (KED AGD)	8.954 ppb	3.4 %	10.000 ppb
137Ba (KED AGD)	9.800 ppb	3.1 %	10.000 ppb
159Tb (KED AGD)	99.560 %	1.2 %	
175Lu (KED AGD)	100.998 %	4.4 %	
205Tl (KED AGD)	9.667 ppb	8.4 %	10.000 ppb
208Pb (KED AGD)	9.405 ppb	5.2 %	10.000 ppb
209Bi (KED AGD)	97.082 %	5.4 %	

Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 12/5/2023 5:56:29 AM
Total Dilution Factor 166.6666666
Rack 0
Vial 5

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	93.419 %	2.4 %	
6Li (KED AGD)	102.662 %	7.6 %	
9Be (STD AGD)	60.179 ppb	0.6 %	60.000 ppb
23Na (KED AGD)	5,806.443 ppb	11.0 %	6,000.000 ppb
24Mg (KED AGD)	6,129.409 ppb	4.1 %	6,000.000 ppb
27Al (KED AGD)	59.971 ppb	4.7 %	60.000 ppb
39K (KED AGD)	6,175.962 ppb	4.5 %	6,000.000 ppb
44Ca (KED AGD)	6,106.903 ppb	5.2 %	6,000.000 ppb
45Sc (STD AGD)	110.261 %	1.3 %	
51V (KED AGD)	60.376 ppb	1.1 %	60.000 ppb
52Cr (KED AGD)	61.555 ppb	1.9 %	60.000 ppb
55Mn (KED AGD)	62.611 ppb	1.2 %	60.000 ppb
57Fe (KED AGD)	6,192.025 ppb	0.3 %	6,000.000 ppb
59Co (KED AGD)	61.772 ppb	1.1 %	60.000 ppb
60Ni (KED AGD)	63.356 ppb	1.6 %	60.000 ppb
65Cu (KED AGD)	60.608 ppb	2.3 %	60.000 ppb
66Zn (KED AGD)	60.673 ppb	0.4 %	60.000 ppb
74Ge (KED AGD)	101.644 %	1.1 %	
75As (KED AGD)	60.032 ppb	1.6 %	60.000 ppb
78Se (KED AGD)	58.146 ppb	4.1 %	60.000 ppb
88Sr (KED AGD)	59.452 ppb	2.6 %	60.000 ppb
95Mo (KED AGD)	59.534 ppb	3.0 %	60.000 ppb
103Rh (KED AGD)	96.973 %	1.1 %	
107Ag (KED AGD)	60.411 ppb	0.8 %	60.000 ppb
111Cd (KED AGD)	60.070 ppb	0.8 %	60.000 ppb
115In (KED AGD)	95.881 %	4.6 %	
121Sb (KED AGD)	59.643 ppb	2.6 %	60.000 ppb
137Ba (KED AGD)	59.162 ppb	0.3 %	60.000 ppb
159Tb (KED AGD)	99.225 %	1.9 %	
175Lu (KED AGD)	101.615 %	3.8 %	
205Tl (KED AGD)	60.056 ppb	7.6 %	60.000 ppb
208Pb (KED AGD)	55.977 ppb	5.0 %	60.000 ppb
209Bi (KED AGD)	97.544 %	5.3 %	

Standards:

Analysis Index: 8
Analysis Name: 120/12000 Cal
Analysis Type: STD
Analysis Started at: 12/5/2023 6:01:08 AM
Total Dilution Factor 83.33333333
Rack 0
Vial 6

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	92.875 %	3.0 %	
6Li (KED AGD)	109.823 %	6.8 %	
9Be (STD AGD)	119.902 ppb	1.2 %	120.000 ppb
23Na (KED AGD)	12,107.400 ppb	4.8 %	12,000.000 ppb
24Mg (KED AGD)	11,936.080 ppb	5.4 %	12,000.000 ppb
27Al (KED AGD)	118.241 ppb	3.4 %	120.000 ppb
39K (KED AGD)	11,911.954 ppb	6.6 %	12,000.000 ppb
44Ca (KED AGD)	11,942.812 ppb	4.6 %	12,000.000 ppb
45Sc (STD AGD)	118.413 %	0.9 %	
51V (KED AGD)	119.833 ppb	3.2 %	120.000 ppb
52Cr (KED AGD)	119.218 ppb	4.0 %	120.000 ppb
55Mn (KED AGD)	118.665 ppb	4.1 %	120.000 ppb
57Fe (KED AGD)	11,901.897 ppb	4.1 %	12,000.000 ppb
59Co (KED AGD)	119.084 ppb	5.6 %	120.000 ppb
60Ni (KED AGD)	118.296 ppb	7.4 %	120.000 ppb
65Cu (KED AGD)	119.676 ppb	5.3 %	120.000 ppb
66Zn (KED AGD)	119.674 ppb	4.7 %	120.000 ppb
74Ge (KED AGD)	104.503 %	4.9 %	
75As (KED AGD)	119.992 ppb	4.3 %	120.000 ppb
78Se (KED AGD)	120.922 ppb	2.7 %	120.000 ppb
88Sr (KED AGD)	120.295 ppb	1.7 %	120.000 ppb
95Mo (KED AGD)	120.237 ppb	2.7 %	120.000 ppb
103Rh (KED AGD)	97.430 %	2.2 %	
107Ag (KED AGD)	119.784 ppb	1.2 %	120.000 ppb
111Cd (KED AGD)	119.967 ppb	1.8 %	120.000 ppb
115In (KED AGD)	99.339 %	1.5 %	
121Sb (KED AGD)	120.268 ppb	2.1 %	120.000 ppb
137Ba (KED AGD)	120.436 ppb	1.1 %	120.000 ppb
159Tb (KED AGD)	101.181 %	2.3 %	
175Lu (KED AGD)	106.123 %	1.1 %	
205Tl (KED AGD)	140.030 ppb	5.3 %	120.000 ppb
208Pb (KED AGD)	122.062 ppb	3.3 %	120.000 ppb
209Bi (KED AGD)	97.397 %	2.3 %	

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	1	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	12/5/2023 5:28:39 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.333 %	104.309 %	0.004 ppb	-3.929 ppb	1.926 ppb	-0.014 ppb	-2.378 ppb	-0.284 ppb	104.385 %
Concentration per Run 1	109.795 %	102.852 %	0.006 ppb	-1.329 ppb	2.673 ppb	-0.144 ppb	2.074 ppb	-1.468 ppb	104.280 %
Concentration per Run 2	108.684 %	104.753 %	0.005 ppb	-6.825 ppb	0.779 ppb	-0.250 ppb	-10.135 ppb	-6.897 ppb	105.997 %
Concentration per Run 3	106.519 %	105.323 %	0.003 ppb	-3.635 ppb	2.328 ppb	0.353 ppb	0.926 ppb	7.512 ppb	102.878 %
Concentration RSD	1.5 %	1.2 %	27.2 %	70.2 %	52.4 %	2,346.3 %	283.5 %	2,561.7 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.038 ppb	0.023 ppb	0.031 ppb	7.651 ppb	0.000 ppb	0.073 ppb	0.041 ppb	2.272 ppb	108.476 %
Concentration per Run 1	0.064 ppb	0.043 ppb	0.003 ppb	6.330 ppb	-0.001 ppb	0.074 ppb	0.055 ppb	2.284 ppb	108.930 %
Concentration per Run 2	0.044 ppb	0.032 ppb	0.017 ppb	8.086 ppb	-0.003 ppb	0.053 ppb	0.037 ppb	2.194 ppb	106.262 %
Concentration per Run 3	0.007 ppb	-0.006 ppb	0.073 ppb	8.538 ppb	0.003 ppb	0.094 ppb	0.031 ppb	2.338 ppb	110.238 %
Concentration RSD	76.1 %	111.2 %	119.6 %	15.3 %	739.9 %	28.3 %	29.7 %	3.2 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.083 ppb	-0.004 ppb	0.001 ppb	0.008 ppb	102.406 %	0.006 ppb	0.001 ppb	103.937 %	0.001 ppb
Concentration per Run 1	-0.022 ppb	-0.042 ppb	-0.007 ppb	0.003 ppb	101.677 %	0.007 ppb	0.005 ppb	103.027 %	0.000 ppb
Concentration per Run 2	-0.189 ppb	-0.028 ppb	0.010 ppb	0.020 ppb	101.315 %	0.007 ppb	0.000 ppb	100.733 %	0.008 ppb
Concentration per Run 3	-0.036 ppb	0.058 ppb	0.000 ppb	0.002 ppb	104.226 %	0.004 ppb	-0.002 ppb	108.051 %	-0.004 ppb
Concentration RSD	112.6 %	1,363.0 %	975.7 %	128.5 %	1.5 %	24.0 %	318.2 %	3.6 %	496.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.032 ppb	102.769 %	105.578 %	0.020 ppb	0.017 ppb	109.318 %
Concentration per Run 1	0.050 ppb	101.932 %	105.065 %	0.019 ppb	0.018 ppb	117.071 %
Concentration per Run 2	0.000 ppb	101.769 %	104.143 %	0.020 ppb	0.017 ppb	106.013 %
Concentration per Run 3	0.047 ppb	104.606 %	107.526 %	0.020 ppb	0.017 ppb	104.869 %
Concentration RSD	87.1 %	1.6 %	1.7 %	1.6 %	4.8 %	6.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 2
Analysis label: CAL LOT #M22-1040
Analysis started at: 12/5/2023 5:33:16 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 1
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.236 %	104.119 %	0.006 ppb	-2.807 ppb	1.621 ppb	-0.029 ppb	-1.912 ppb	1.598 ppb	100.777 %
Concentration per Run 1	105.778 %	100.380 %	0.009 ppb	1.718 ppb	1.289 ppb	-0.438 ppb	-5.556 ppb	7.282 ppb	101.185 %
Concentration per Run 2	102.814 %	102.281 %	0.004 ppb	-4.154 ppb	2.100 ppb	0.417 ppb	-5.899 ppb	-1.657 ppb	101.487 %
Concentration per Run 3	101.116 %	109.696 %	0.003 ppb	-5.984 ppb	1.473 ppb	-0.066 ppb	5.719 ppb	-0.830 ppb	99.658 %
Concentration RSD	2.3 %	4.7 %	58.8 %	143.4 %	26.2 %	1,471.3 %	345.7 %	309.0 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.018 ppb	0.020 ppb	0.030 ppb	8.150 ppb	0.007 ppb	0.135 ppb	0.047 ppb	2.316 ppb	102.807 %
Concentration per Run 1	0.028 ppb	0.021 ppb	0.049 ppb	11.309 ppb	0.014 ppb	0.136 ppb	0.058 ppb	2.289 ppb	101.853 %
Concentration per Run 2	-0.008 ppb	0.030 ppb	0.025 ppb	6.118 ppb	0.011 ppb	0.174 ppb	0.053 ppb	2.360 ppb	99.224 %
Concentration per Run 3	0.034 ppb	0.009 ppb	0.014 ppb	7.025 ppb	-0.003 ppb	0.096 ppb	0.029 ppb	2.301 ppb	107.346 %
Concentration RSD	124.5 %	53.8 %	60.5 %	34.0 %	129.7 %	28.6 %	32.6 %	1.6 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.108 ppb	-0.033 ppb	-0.001 ppb	0.002 ppb	99.826 %	0.007 ppb	0.004 ppb	100.888 %	0.011 ppb
Concentration per Run 1	0.057 ppb	0.029 ppb	-0.006 ppb	-0.025 ppb	97.246 %	0.006 ppb	0.002 ppb	99.039 %	0.008 ppb
Concentration per Run 2	-0.152 ppb	0.023 ppb	0.005 ppb	0.009 ppb	98.994 %	0.009 ppb	0.000 ppb	96.703 %	0.018 ppb
Concentration per Run 3	-0.228 ppb	-0.152 ppb	-0.003 ppb	0.023 ppb	103.238 %	0.005 ppb	0.011 ppb	106.923 %	0.008 ppb
Concentration RSD	137.2 %	309.3 %	423.6 %	1,205.9 %	3.1 %	32.5 %	133.6 %	5.3 %	49.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.017 ppb	100.588 %	101.424 %	0.009 ppb	0.015 ppb	100.188 %
Concentration per Run 1	0.013 ppb	100.496 %	101.087 %	0.001 ppb	0.015 ppb	103.574 %
Concentration per Run 2	0.000 ppb	99.710 %	100.022 %	0.013 ppb	0.016 ppb	96.476 %
Concentration per Run 3	0.036 ppb	101.557 %	103.161 %	0.012 ppb	0.015 ppb	100.515 %
Concentration RSD	111.2 %	0.9 %	1.6 %	80.2 %	3.1 %	3.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	3	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Blank NTB ICPMSQ	Rack	4		
Analysis started at:	12/5/2023 5:37:53 AM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.0 %	0.2 %	0.0 %	0.4 %	0.1 %	0.1 %	0.1 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.4 %	0.0 %	0.6 %	0.3 %	0.6 %	0.6 %	0.3 %	0.0 %	0.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.1 %	0.7 %	0.0 %	0.3 %	0.0 %	0.9 %	1.0 %	0.0 %	0.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.0 %	0.0 %	0.3 %	0.1 %	0.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	4	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	0.2/20 Cal	Rack	0		
Analysis started at:	12/5/2023 5:42:35 AM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.812 %	107.478 %	0.205 ppb	14.612 ppb	21.941 ppb	0.805 ppb	18.342 ppb	141.228 ppb	98.870 %
Concentration per Run 1	98.784 %	108.935 %	0.198 ppb	12.701 ppb	20.853 ppb	0.443 ppb	26.878 ppb	130.428 ppb	98.266 %
Concentration per Run 2	96.625 %	99.810 %	0.206 ppb	19.394 ppb	23.719 ppb	1.146 ppb	11.488 ppb	153.227 ppb	98.585 %
Concentration per Run 3	95.025 %	113.688 %	0.211 ppb	11.742 ppb	21.251 ppb	0.825 ppb	16.659 ppb	140.030 ppb	99.760 %
Concentration RSD	1.9 %	6.6 %	3.1 %	28.5 %	7.1 %	43.7 %	42.7 %	8.1 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.223 ppb	0.234 ppb	0.199 ppb	22.124 ppb	0.205 ppb	0.252 ppb	0.264 ppb	0.682 ppb	99.672 %
Concentration per Run 1	0.229 ppb	0.239 ppb	0.106 ppb	23.203 ppb	0.213 ppb	0.220 ppb	0.245 ppb	0.617 ppb	103.059 %
Concentration per Run 2	0.222 ppb	0.226 ppb	0.243 ppb	21.392 ppb	0.214 ppb	0.271 ppb	0.322 ppb	0.768 ppb	96.835 %
Concentration per Run 3	0.218 ppb	0.237 ppb	0.248 ppb	21.777 ppb	0.187 ppb	0.265 ppb	0.226 ppb	0.660 ppb	99.123 %
Concentration RSD	2.5 %	3.0 %	40.6 %	4.3 %	7.5 %	11.0 %	19.2 %	11.4 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.148 ppb	0.156 ppb	0.236 ppb	0.195 ppb	100.256 %	0.212 ppb	0.185 ppb	97.417 %	0.130 ppb
Concentration per Run 1	0.218 ppb	0.061 ppb	0.223 ppb	0.208 ppb	99.856 %	0.222 ppb	0.165 ppb	96.727 %	0.133 ppb
Concentration per Run 2	0.096 ppb	0.058 ppb	0.247 ppb	0.205 ppb	98.656 %	0.212 ppb	0.211 ppb	93.702 %	0.125 ppb
Concentration per Run 3	0.129 ppb	0.351 ppb	0.239 ppb	0.172 ppb	102.255 %	0.203 ppb	0.179 ppb	101.823 %	0.131 ppb
Concentration RSD	42.4 %	107.6 %	5.3 %	10.2 %	1.8 %	4.5 %	12.7 %	4.2 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.163 ppb	97.394 %	99.678 %	0.184 ppb	0.190 ppb	98.675 %
Concentration per Run 1	0.132 ppb	98.485 %	99.772 %	0.164 ppb	0.181 ppb	102.503 %
Concentration per Run 2	0.192 ppb	93.965 %	97.048 %	0.191 ppb	0.189 ppb	96.687 %
Concentration per Run 3	0.165 ppb	99.733 %	102.215 %	0.198 ppb	0.199 ppb	96.836 %
Concentration RSD	18.6 %	3.1 %	2.6 %	9.8 %	4.7 %	3.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	5	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	1/100 Cal	Rack	0		
Analysis started at:	12/5/2023 5:47:12 AM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.841 %	101.267 %	0.996 ppb	96.977 ppb	110.738 ppb	1.104 ppb	99.419 ppb	139.271 ppb	99.341 %
Concentration per Run 1	98.074 %	100.570 %	0.967 ppb	97.848 ppb	111.717 ppb	0.954 ppb	94.960 ppb	146.072 ppb	100.545 %
Concentration per Run 2	94.946 %	96.958 %	1.019 ppb	109.054 ppb	116.368 ppb	1.076 ppb	107.030 ppb	175.095 ppb	98.703 %
Concentration per Run 3	94.502 %	106.274 %	1.002 ppb	84.028 ppb	104.129 ppb	1.283 ppb	96.268 ppb	96.647 ppb	98.776 %
Concentration RSD	2.0 %	4.6 %	2.6 %	12.9 %	5.6 %	15.1 %	6.7 %	28.5 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.048 ppb	1.111 ppb	1.052 ppb	106.451 ppb	1.099 ppb	1.102 ppb	1.042 ppb	1.001 ppb	99.857 %
Concentration per Run 1	0.953 ppb	1.121 ppb	1.046 ppb	101.261 ppb	1.051 ppb	0.951 ppb	1.127 ppb	1.048 ppb	99.400 %
Concentration per Run 2	1.207 ppb	1.126 ppb	1.031 ppb	113.080 ppb	1.186 ppb	1.348 ppb	1.119 ppb	1.005 ppb	99.423 %
Concentration per Run 3	0.982 ppb	1.087 ppb	1.080 ppb	105.010 ppb	1.062 ppb	1.006 ppb	0.880 ppb	0.952 ppb	100.749 %
Concentration RSD	13.3 %	1.9 %	2.4 %	5.7 %	6.8 %	19.5 %	13.4 %	4.8 %	0.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.029 ppb	0.832 ppb	0.968 ppb	0.982 ppb	98.110 %	0.970 ppb	1.010 ppb	99.425 %	0.764 ppb
Concentration per Run 1	0.996 ppb	1.057 ppb	0.932 ppb	0.940 ppb	97.256 %	0.939 ppb	0.987 ppb	99.444 %	0.780 ppb
Concentration per Run 2	1.071 ppb	0.827 ppb	1.014 ppb	0.979 ppb	99.092 %	0.946 ppb	1.015 ppb	100.224 %	0.781 ppb
Concentration per Run 3	1.021 ppb	0.612 ppb	0.957 ppb	1.027 ppb	97.982 %	1.024 ppb	1.028 ppb	98.607 %	0.732 ppb
Concentration RSD	3.7 %	26.7 %	4.3 %	4.4 %	0.9 %	4.9 %	2.1 %	0.8 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.977 ppb	97.527 %	98.254 %	0.949 ppb	0.922 ppb	96.869 %
Concentration per Run 1	0.925 ppb	97.439 %	97.876 %	0.863 ppb	0.868 ppb	101.312 %
Concentration per Run 2	1.132 ppb	97.039 %	99.313 %	0.957 ppb	0.921 ppb	97.492 %
Concentration per Run 3	0.874 ppb	98.105 %	97.573 %	1.028 ppb	0.976 ppb	91.802 %
Concentration RSD	14.0 %	0.6 %	0.9 %	8.7 %	5.9 %	4.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	6	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	10/1000 Cal	Rack	0		
Analysis started at:	12/5/2023 5:51:50 AM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.346 %	109.633 %	10.109 ppb	872.950 ppb	989.469 ppb	10.151 ppb	1,000.875 ppb	1,038.482 ppb	100.106 %
Concentration per Run 1	96.617 %	102.852 %	10.133 ppb	959.175 ppb	1,030.755 ppb	10.642 ppb	1,056.619 ppb	1,144.106 ppb	100.152 %
Concentration per Run 2	94.197 %	114.449 %	10.195 ppb	821.960 ppb	992.102 ppb	10.818 ppb	981.856 ppb	1,013.823 ppb	100.076 %
Concentration per Run 3	92.224 %	111.597 %	9.998 ppb	837.715 ppb	945.550 ppb	8.993 ppb	964.151 ppb	957.518 ppb	100.090 %
Concentration RSD	2.3 %	5.5 %	1.0 %	8.6 %	4.3 %	9.9 %	4.9 %	9.2 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	9.739 ppb	10.040 ppb	10.351 ppb	1,024.394 ppb	10.354 ppb	10.299 ppb	10.237 ppb	9.858 ppb	102.812 %
Concentration per Run 1	10.231 ppb	10.579 ppb	10.332 ppb	1,063.006 ppb	10.611 ppb	10.335 ppb	10.304 ppb	10.224 ppb	102.428 %
Concentration per Run 2	9.664 ppb	9.710 ppb	9.926 ppb	1,004.326 ppb	10.086 ppb	10.054 ppb	10.406 ppb	9.570 ppb	106.201 %
Concentration per Run 3	9.321 ppb	9.830 ppb	10.794 ppb	1,005.849 ppb	10.365 ppb	10.509 ppb	10.002 ppb	9.781 ppb	99.806 %
Concentration RSD	4.7 %	4.7 %	4.2 %	3.3 %	2.5 %	2.2 %	2.1 %	3.4 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	9.901 ppb	10.081 ppb	9.745 ppb	9.951 ppb	97.338 %	10.127 ppb	9.980 ppb	96.327 %	8.954 ppb
Concentration per Run 1	9.947 ppb	9.730 ppb	9.977 ppb	10.052 ppb	97.675 %	9.948 ppb	10.214 ppb	98.603 %	9.088 ppb
Concentration per Run 2	9.860 ppb	11.322 ppb	9.735 ppb	9.709 ppb	97.477 %	10.240 ppb	9.752 ppb	98.280 %	8.607 ppb
Concentration per Run 3	9.897 ppb	9.192 ppb	9.522 ppb	10.092 ppb	96.863 %	10.194 ppb	9.976 ppb	92.098 %	9.168 ppb
Concentration RSD	0.4 %	11.0 %	2.3 %	2.1 %	0.4 %	1.6 %	2.3 %	3.8 %	3.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.800 ppb	99.560 %	100.998 %	9.667 ppb	9.405 ppb	97.082 %
Concentration per Run 1	10.135 ppb	99.643 %	103.802 %	8.755 ppb	8.863 ppb	102.879 %
Concentration per Run 2	9.712 ppb	100.668 %	103.308 %	9.942 ppb	9.543 ppb	95.676 %
Concentration per Run 3	9.553 ppb	98.370 %	95.884 %	10.303 ppb	9.808 ppb	92.690 %
Concentration RSD	3.1 %	1.2 %	4.4 %	8.4 %	5.2 %	5.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	7	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	60/6000 Cal	Rack	0		
Analysis started at:	12/5/2023 5:56:29 AM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.419 %	102.662 %	60.179 ppb	5,806.443 ppb	6,129.409 ppb	59.971 ppb	6,175.962 ppb	6,106.903 ppb	110.261 %
Concentration per Run 1	95.646 %	98.669 %	59.822 ppb	6,498.111 ppb	6,235.039 ppb	63.149 ppb	6,494.351 ppb	6,472.670 ppb	111.713 %
Concentration per Run 2	93.533 %	111.597 %	60.221 ppb	5,236.943 ppb	5,843.757 ppb	59.033 ppb	5,977.585 ppb	5,918.370 ppb	110.162 %
Concentration per Run 3	91.077 %	97.719 %	60.493 ppb	5,684.276 ppb	6,309.431 ppb	57.731 ppb	6,055.951 ppb	5,929.670 ppb	108.909 %
Concentration RSD	2.4 %	7.6 %	0.6 %	11.0 %	4.1 %	4.7 %	4.5 %	5.2 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.376 ppb	61.555 ppb	62.611 ppb	6,192.025 ppb	61.772 ppb	63.356 ppb	60.608 ppb	60.673 ppb	101.644 %
Concentration per Run 1	60.754 ppb	62.522 ppb	63.214 ppb	6,203.732 ppb	62.532 ppb	63.179 ppb	59.173 ppb	60.385 ppb	102.645 %
Concentration per Run 2	59.602 ppb	60.280 ppb	61.788 ppb	6,173.352 ppb	61.376 ppb	62.414 ppb	60.754 ppb	60.757 ppb	101.901 %
Concentration per Run 3	60.771 ppb	61.863 ppb	62.831 ppb	6,198.992 ppb	61.408 ppb	64.474 ppb	61.898 ppb	60.878 ppb	100.387 %
Concentration RSD	1.1 %	1.9 %	1.2 %	0.3 %	1.1 %	1.6 %	2.3 %	0.4 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.032 ppb	58.146 ppb	59.452 ppb	59.534 ppb	96.973 %	60.411 ppb	60.070 ppb	95.881 %	59.643 ppb
Concentration per Run 1	59.344 ppb	55.459 ppb	59.416 ppb	57.567 ppb	97.597 %	59.934 ppb	59.604 ppb	97.402 %	60.420 ppb
Concentration per Run 2	61.115 ppb	59.989 ppb	60.986 ppb	60.989 ppb	97.614 %	60.371 ppb	60.591 ppb	99.304 %	57.831 ppb
Concentration per Run 3	59.638 ppb	58.990 ppb	57.954 ppb	60.046 ppb	95.708 %	60.927 ppb	60.014 ppb	90.938 %	60.678 ppb
Concentration RSD	1.6 %	4.1 %	2.6 %	3.0 %	1.1 %	0.8 %	0.8 %	4.6 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.162 ppb	99.225 %	101.615 %	60.056 ppb	55.977 ppb	97.544 %
Concentration per Run 1	59.211 ppb	101.012 %	104.467 %	55.113 ppb	52.781 ppb	103.201 %
Concentration per Run 2	59.330 ppb	99.401 %	103.125 %	60.946 ppb	57.087 ppb	96.461 %
Concentration per Run 3	58.945 ppb	97.260 %	97.254 %	64.110 ppb	58.064 ppb	92.970 %
Concentration RSD	0.3 %	1.9 %	3.8 %	7.6 %	5.0 %	5.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	8	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	120/12000 Cal	Rack	0		
Analysis started at:	12/5/2023 6:01:08 AM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.875 %	109.823 %	119.902 ppb	12,107.400 ppb	11,936.080 ppb	119.231 ppb	11,911.954 ppb	11,942.812 ppb	118.413 %
Concentration per Run 1	95.876 %	103.422 %	118.307 ppb	12,622.359 ppb	12,553.225 ppb	121.754 ppb	12,440.364 ppb	12,321.851 ppb	119.554 %
Concentration per Run 2	92.382 %	107.985 %	120.436 ppb	12,213.472 ppb	11,977.531 ppb	119.090 ppb	12,281.301 ppb	12,197.644 ppb	118.052 %
Concentration per Run 3	90.368 %	118.061 %	120.963 ppb	11,486.369 ppb	11,277.485 ppb	113.880 ppb	11,014.195 ppb	11,308.941 ppb	117.632 %
Concentration RSD	3.0 %	6.8 %	1.2 %	4.8 %	5.4 %	3.4 %	6.6 %	4.6 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	119.833 ppb	119.218 ppb	118.665 ppb	11,901.897 ppb	119.084 ppb	118.296 ppb	119.676 ppb	119.674 ppb	104.503 %
Concentration per Run 1	120.265 ppb	120.237 ppb	118.794 ppb	11,957.454 ppb	122.058 ppb	122.459 ppb	123.549 ppb	122.844 ppb	101.530 %
Concentration per Run 2	123.376 ppb	123.437 ppb	123.487 ppb	12,365.595 ppb	123.712 ppb	124.179 ppb	123.081 ppb	122.992 ppb	101.546 %
Concentration per Run 3	115.860 ppb	113.980 ppb	113.713 ppb	11,382.643 ppb	111.480 ppb	108.251 ppb	112.397 ppb	113.187 ppb	110.432 %
Concentration RSD	3.2 %	4.0 %	4.1 %	4.1 %	5.6 %	7.4 %	5.3 %	4.7 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	119.992 ppb	120.922 ppb	120.295 ppb	120.237 ppb	97.430 %	119.784 ppb	119.967 ppb	99.339 %	120.268 ppb
Concentration per Run 1	121.375 ppb	117.818 ppb	121.592 ppb	116.513 ppb	94.932 %	119.432 ppb	119.776 ppb	98.342 %	123.069 ppb
Concentration per Run 2	124.265 ppb	124.264 ppb	121.370 ppb	122.773 ppb	98.890 %	118.572 ppb	117.925 ppb	101.102 %	119.348 ppb
Concentration per Run 3	114.336 ppb	120.683 ppb	117.924 ppb	121.426 ppb	98.468 %	121.348 ppb	122.199 ppb	98.575 %	118.386 ppb
Concentration RSD	4.3 %	2.7 %	1.7 %	2.7 %	2.2 %	1.2 %	1.8 %	1.5 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	120.436 ppb	101.181 %	106.123 %	140.030 ppb	122.062 ppb	97.397 %
Concentration per Run 1	122.032 ppb	98.512 %	107.088 %	131.740 ppb	117.424 ppb	99.927 %
Concentration per Run 2	119.639 ppb	102.399 %	104.861 %	142.582 ppb	124.990 ppb	95.710 %
Concentration per Run 3	119.636 ppb	102.631 %	106.421 %	145.769 ppb	123.771 ppb	96.555 %
Concentration RSD	1.1 %	2.3 %	1.1 %	5.3 %	3.3 %	2.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	9	User name	ALPHALAB\Metals-Instrument	Comment	Sr Inteference Check
Analysis label:	Sr 200ppb	Rack	4		
Analysis started at:	12/5/2023 6:09:36 AM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.248 %	103.549 %	0.012 ppb	-1.358 ppb	1.676 ppb	0.139 ppb	-0.459 ppb	-1.158 ppb	97.275 %
Concentration per Run 1	99.283 %	103.042 %	0.016 ppb	-0.768 ppb	1.245 ppb	0.144 ppb	0.651 ppb	-18.861 ppb	98.461 %
Concentration per Run 2	96.848 %	100.190 %	0.008 ppb	-1.252 ppb	1.964 ppb	-0.094 ppb	-3.478 ppb	62.282 ppb	96.567 %
Concentration per Run 3	95.614 %	107.415 %	0.012 ppb	-2.054 ppb	1.819 ppb	0.366 ppb	1.449 ppb	-46.896 ppb	96.797 %
Concentration RSD	1.9 %	3.5 %	32.8 %	47.8 %	22.7 %	166.4 %	575.9 %	4,895.3 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.038 ppb	0.009 ppb	-0.011 ppb	9.183 ppb	0.002 ppb	0.023 ppb	-0.003 ppb	0.315 ppb	108.209 %
Concentration per Run 1	-0.045 ppb	0.059 ppb	-0.015 ppb	10.223 ppb	-0.002 ppb	0.009 ppb	-0.006 ppb	0.298 ppb	100.899 %
Concentration per Run 2	-0.032 ppb	-0.012 ppb	-0.068 ppb	9.670 ppb	-0.002 ppb	0.012 ppb	0.012 ppb	0.296 ppb	104.765 %
Concentration per Run 3	-0.038 ppb	-0.022 ppb	0.049 ppb	7.656 ppb	0.011 ppb	0.046 ppb	-0.015 ppb	0.350 ppb	118.962 %
Concentration RSD	18.0 %	507.8 %	523.6 %	14.7 %	297.1 %	89.6 %	448.4 %	9.8 %	8.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.159 ppb	0.220 ppb	199.753 ppb	0.523 ppb	101.935 %	0.020 ppb	0.008 ppb	103.164 %	0.042 ppb
Concentration per Run 1	-0.234 ppb	0.131 ppb	197.016 ppb	0.400 ppb	98.994 %	0.018 ppb	0.011 ppb	98.529 %	0.037 ppb
Concentration per Run 2	-0.125 ppb	0.381 ppb	198.875 ppb	0.599 ppb	101.690 %	0.023 ppb	0.007 ppb	103.498 %	0.043 ppb
Concentration per Run 3	-0.118 ppb	0.150 ppb	203.370 ppb	0.569 ppb	105.119 %	0.018 ppb	0.005 ppb	107.465 %	0.046 ppb
Concentration RSD	41.1 %	63.0 %	1.6 %	20.6 %	3.0 %	13.0 %	40.2 %	4.3 %	10.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.174 ppb	102.086 %	106.304 %	0.290 ppb	0.018 ppb	105.537 %
Concentration per Run 1	0.130 ppb	99.378 %	102.655 %	0.284 ppb	0.018 ppb	110.848 %
Concentration per Run 2	0.162 ppb	102.396 %	106.064 %	0.305 ppb	0.017 ppb	103.812 %
Concentration per Run 3	0.229 ppb	104.484 %	110.193 %	0.282 ppb	0.019 ppb	101.951 %
Concentration RSD	29.3 %	2.5 %	3.6 %	4.5 %	5.9 %	4.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 10 User name ALPHALAB\Metals-Instrument Comment ICV
Analysis label: ICV Rack 0
Analysis started at: 12/5/2023 6:14:18 AM Vial 7

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.561 %	102.472 %	52.787 ppb	4,930.535 ppb	5,347.580 ppb	54.758 ppb	5,305.478 ppb	5,308.405 ppb	101.750 %
Concentration per Run 1	94.913 %	94.677 %	52.133 ppb	4,715.651 ppb	5,329.091 ppb	49.067 ppb	5,087.035 ppb	5,241.799 ppb	103.659 %
Concentration per Run 2	91.330 %	108.365 %	53.305 ppb	4,560.116 ppb	5,259.566 ppb	54.394 ppb	5,262.573 ppb	5,096.024 ppb	99.519 %
Concentration per Run 3	91.441 %	104.373 %	52.922 ppb	5,515.837 ppb	5,454.083 ppb	60.814 ppb	5,566.825 ppb	5,587.390 ppb	102.071 %
Recovery Percentage 1			105.574 %	98.611 %	106.952 %	109.517 %	106.110 %	106.168 %	
Concentration RSD	2.2 %	6.9 %	1.1 %	10.4 %	1.8 %	10.7 %	4.6 %	4.8 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	52.482 ppb	52.995 ppb	54.418 ppb	5,493.254 ppb	54.173 ppb	52.955 ppb	53.880 ppb	52.668 ppb	103.239 %
Concentration per Run 1	51.462 ppb	53.581 ppb	55.754 ppb	5,419.031 ppb	53.817 ppb	52.667 ppb	52.905 ppb	52.772 ppb	101.136 %
Concentration per Run 2	51.859 ppb	51.054 ppb	53.055 ppb	5,403.392 ppb	52.075 ppb	52.385 ppb	52.214 ppb	51.229 ppb	106.707 %
Concentration per Run 3	54.125 ppb	54.351 ppb	54.446 ppb	5,657.339 ppb	56.627 ppb	53.813 ppb	56.522 ppb	54.004 ppb	101.872 %
Recovery Percentage 1	104.964 %	105.990 %	108.837 %	109.865 %	108.346 %	105.910 %	107.761 %	105.337 %	
Concentration RSD	2.7 %	3.3 %	2.5 %	2.6 %	4.2 %	1.4 %	4.3 %	2.6 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	50.288 ppb	50.003 ppb	50.634 ppb	52.458 ppb	97.905 %	52.356 ppb	51.374 ppb	98.177 %	51.581 ppb
Concentration per Run 1	48.900 ppb	45.880 ppb	48.258 ppb	51.133 ppb	95.210 %	51.253 ppb	51.335 ppb	93.463 %	50.783 ppb
Concentration per Run 2	50.055 ppb	51.002 ppb	50.417 ppb	51.615 ppb	100.948 %	53.215 ppb	50.995 ppb	97.200 %	52.659 ppb
Concentration per Run 3	51.909 ppb	53.126 ppb	53.228 ppb	54.626 ppb	97.556 %	52.600 ppb	51.791 ppb	103.867 %	51.301 ppb
Recovery Percentage 1	100.576 %	100.006 %	101.269 %	104.916 %		104.712 %	102.748 %		103.162 %
Concentration RSD	3.0 %	7.4 %	4.9 %	3.6 %	2.9 %	1.9 %	0.8 %	5.4 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	51.959 ppb	101.464 %	103.483 %	48.619 ppb	47.516 ppb	102.777 %
Concentration per Run 1	50.225 ppb	98.823 %	98.650 %	44.480 ppb	44.309 ppb	106.883 %
Concentration per Run 2	54.812 ppb	103.312 %	106.948 %	50.610 ppb	49.098 ppb	100.541 %
Concentration per Run 3	50.839 ppb	102.256 %	104.852 %	50.767 ppb	49.140 ppb	100.907 %
Recovery Percentage 1	103.917 %			97.238 %	95.032 %	
Concentration RSD	4.8 %	2.3 %	4.2 %	7.4 %	5.8 %	3.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	11	User name	ALPHALAB\Metals-Instrument	Comment	ICB
Analysis label:	ICB	Rack	0		
Analysis started at:	12/5/2023 6:18:59 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.271 %	106.908 %	0.011 ppb	-4.679 ppb	-0.420 ppb	-0.299 ppb	-5.296 ppb	-7.968 ppb	96.048 %
Concentration per Run 1	94.965 %	105.323 %	0.012 ppb	-4.649 ppb	-0.127 ppb	-0.207 ppb	-3.831 ppb	-12.577 ppb	96.791 %
Concentration per Run 2	92.295 %	100.951 %	0.015 ppb	1.208 ppb	-0.532 ppb	-0.358 ppb	-10.788 ppb	-8.538 ppb	95.096 %
Concentration per Run 3	89.552 %	114.449 %	0.005 ppb	-10.595 ppb	-0.602 ppb	-0.331 ppb	-1.270 ppb	-2.788 ppb	96.258 %
Recovery Percentage 1			2.161 %	-4.679 %	-0.601 %	-2.985 %	-5.296 %	-7.968 %	
Concentration RSD	2.9 %	6.4 %	48.7 %	126.1 %	61.0 %	27.0 %	93.0 %	61.7 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.065 ppb	-0.013 ppb	-0.060 ppb	11.454 ppb	-0.004 ppb	-0.014 ppb	-0.011 ppb	0.050 ppb	101.694 %
Concentration per Run 1	-0.067 ppb	-0.012 ppb	-0.078 ppb	12.886 ppb	-0.003 ppb	-0.013 ppb	-0.008 ppb	0.039 ppb	95.636 %
Concentration per Run 2	-0.054 ppb	-0.046 ppb	-0.043 ppb	9.590 ppb	-0.007 ppb	0.007 ppb	-0.014 ppb	0.079 ppb	105.512 %
Concentration per Run 3	-0.075 ppb	0.019 ppb	-0.058 ppb	11.887 ppb	-0.002 ppb	-0.036 ppb	-0.011 ppb	0.032 ppb	103.935 %
Recovery Percentage 1	-1.305 %	-1.306 %	-5.955 %	22.909 %	-0.803 %	-0.694 %	-1.125 %	0.997 %	
Concentration RSD	16.9 %	252.0 %	29.1 %	14.8 %	71.7 %	154.9 %	29.1 %	50.5 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.060 ppb	0.223 ppb	-0.012 ppb	0.892 ppb	99.215 %	0.006 ppb	0.001 ppb	95.726 %	0.071 ppb
Concentration per Run 1	-0.020 ppb	0.303 ppb	-0.012 ppb	0.851 ppb	95.657 %	0.009 ppb	0.004 ppb	91.136 %	0.046 ppb
Concentration per Run 2	-0.079 ppb	0.054 ppb	-0.012 ppb	0.842 ppb	101.210 %	0.004 ppb	0.000 ppb	97.441 %	0.077 ppb
Concentration per Run 3	-0.081 ppb	0.313 ppb	-0.013 ppb	0.983 ppb	100.777 %	0.006 ppb	-0.002 ppb	98.602 %	0.089 ppb
Recovery Percentage 1	-11.950 %	4.469 %	-0.124 %	44.615 %		1.548 %	0.399 %		1.763 %
Concentration RSD	58.2 %	65.9 %	3.7 %	8.9 %	3.1 %	37.4 %	390.6 %	4.2 %	30.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.001 ppb	98.801 %	100.241 %	0.414 ppb	0.014 ppb	97.739 %
Concentration per Run 1	0.029 ppb	93.462 %	96.664 %	0.328 ppb	0.017 ppb	100.514 %
Concentration per Run 2	-0.013 ppb	100.907 %	102.265 %	0.485 ppb	0.014 ppb	96.756 %
Concentration per Run 3	-0.013 ppb	102.033 %	101.793 %	0.428 ppb	0.011 ppb	95.947 %
Recovery Percentage 1	0.214 %			41.397 %	1.392 %	
Concentration RSD	2,254.9 %	4.7 %	3.1 %	19.2 %	22.9 %	2.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 12
Analysis label: LLCCV
Analysis started at: 12/5/2023 6:37:18 AM
User name ALPHALAB\Metals-Instrument
Rack 4
Vial 51
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.091 %	105.894 %	0.301 ppb	87.002 ppb	77.080 ppb	11.716 ppb	106.612 ppb	189.382 ppb	100.097 %
Concentration per Run 1	100.909 %	109.126 %	0.294 ppb	81.615 ppb	69.215 ppb	11.560 ppb	113.503 ppb	177.560 ppb	101.329 %
Concentration per Run 2	99.772 %	102.662 %	0.293 ppb	87.217 ppb	79.036 ppb	12.312 ppb	103.830 ppb	193.233 ppb	99.539 %
Concentration per Run 3	96.593 %	105.894 %	0.316 ppb	92.173 ppb	82.988 ppb	11.277 ppb	102.503 ppb	197.354 ppb	99.423 %
Recovery Percentage 1			60.223 %	87.002 %	110.114 %	117.163 %	106.612 %	189.382 %	
Concentration RSD	2.3 %	3.1 %	4.3 %	6.1 %	9.2 %	4.6 %	5.6 %	5.5 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	5.077 ppb	0.412 ppb	4.789 ppb	529.882 ppb	0.497 ppb	2.023 ppb	1.779 ppb	11.037 ppb	103.300 %
Concentration per Run 1	4.811 ppb	0.425 ppb	4.706 ppb	507.737 ppb	0.460 ppb	2.054 ppb	1.780 ppb	10.794 ppb	101.674 %
Concentration per Run 2	5.147 ppb	0.359 ppb	4.536 ppb	528.538 ppb	0.461 ppb	1.855 ppb	1.711 ppb	10.795 ppb	107.110 %
Concentration per Run 3	5.272 ppb	0.452 ppb	5.124 ppb	553.370 ppb	0.568 ppb	2.159 ppb	1.847 ppb	11.522 ppb	101.116 %
Recovery Percentage 1	101.531 %	41.205 %	478.864 %	1,059.764 %	99.328 %	101.127 %	177.934 %	110.370 %	
Concentration RSD	4.7 %	11.6 %	6.3 %	4.3 %	12.5 %	7.6 %	3.8 %	3.8 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.469 ppb	4.392 ppb	0.489 ppb	1.972 ppb	100.151 %	0.215 ppb	0.192 ppb	100.679 %	1.978 ppb
Concentration per Run 1	0.587 ppb	5.351 ppb	0.497 ppb	1.936 ppb	99.090 %	0.210 ppb	0.171 ppb	100.245 %	1.955 ppb
Concentration per Run 2	0.418 ppb	4.073 ppb	0.483 ppb	1.982 ppb	100.626 %	0.222 ppb	0.203 ppb	99.884 %	1.955 ppb
Concentration per Run 3	0.403 ppb	3.750 ppb	0.488 ppb	1.997 ppb	100.737 %	0.211 ppb	0.202 ppb	101.909 %	2.024 ppb
Recovery Percentage 1	93.886 %	87.833 %	97.857 %	98.584 %		53.659 %	95.989 %		49.458 %
Concentration RSD	21.7 %	19.3 %	1.5 %	1.6 %	0.9 %	3.2 %	9.3 %	1.1 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.568 ppb	101.271 %	101.649 %	0.497 ppb	0.425 ppb	109.398 %
Concentration per Run 1	0.667 ppb	99.918 %	100.678 %	0.453 ppb	0.385 ppb	120.408 %
Concentration per Run 2	0.481 ppb	102.723 %	103.308 %	0.513 ppb	0.432 ppb	106.213 %
Concentration per Run 3	0.556 ppb	101.173 %	100.961 %	0.526 ppb	0.457 ppb	101.572 %
Recovery Percentage 1	113.555 %			99.484 %	84.959 %	
Concentration RSD	16.4 %	1.4 %	1.4 %	7.8 %	8.5 %	9.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	13	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	ICSA	Rack	4		
Analysis started at:	12/5/2023 6:42:00 AM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.465 %	102.535 %	0.012 ppb	50,094.734 ppb	20,901.618 ppb	19,460.432 ppb	19,991.868 ppb	59,341.486 ppb	101.257 %
Concentration per Run 1	84.209 %	99.049 %	0.014 ppb	50,926.085 ppb	19,925.033 ppb	19,942.224 ppb	20,768.323 ppb	61,258.619 ppb	102.740 %
Concentration per Run 2	82.942 %	103.802 %	0.008 ppb	49,018.202 ppb	21,721.101 ppb	19,369.816 ppb	19,920.397 ppb	58,841.534 ppb	101.404 %
Concentration per Run 3	80.244 %	104.753 %	0.013 ppb	50,339.917 ppb	21,058.720 ppb	19,069.257 ppb	19,286.885 ppb	57,924.305 ppb	99.626 %
Recovery Percentage 1			2.342 %	50,094.734 %	29,859.454 %	194,604.323 %	19,991.868 %	59,341.486 %	
Concentration RSD	2.5 %	3.0 %	27.2 %	2.0 %	4.3 %	2.3 %	3.7 %	2.9 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.054 ppb	0.333 ppb	1.123 ppb	53,270.169 ppb	0.477 ppb	0.648 ppb	0.209 ppb	0.885 ppb	106.145 %
Concentration per Run 1	-0.075 ppb	0.343 ppb	1.193 ppb	54,541.192 ppb	0.482 ppb	0.606 ppb	0.163 ppb	0.887 ppb	102.312 %
Concentration per Run 2	-0.027 ppb	0.288 ppb	1.136 ppb	52,411.793 ppb	0.514 ppb	0.722 ppb	0.215 ppb	0.890 ppb	108.281 %
Concentration per Run 3	-0.061 ppb	0.367 ppb	1.039 ppb	52,857.522 ppb	0.435 ppb	0.617 ppb	0.248 ppb	0.878 ppb	107.841 %
Recovery Percentage 1	-1.084 %	33.286 %	112.261 %	106,540.338 %	95.465 %	32.421 %	20.854 %	17.696 %	
Concentration RSD	45.7 %	12.2 %	6.9 %	2.1 %	8.3 %	9.8 %	20.6 %	0.7 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.011 ppb	0.765 ppb	0.498 ppb	406.949 ppb	95.076 %	0.006 ppb	0.058 ppb	98.510 %	0.052 ppb
Concentration per Run 1	0.138 ppb	0.918 ppb	0.491 ppb	393.784 ppb	95.221 %	0.003 ppb	0.054 ppb	98.222 %	0.052 ppb
Concentration per Run 2	-0.021 ppb	0.556 ppb	0.494 ppb	407.457 ppb	93.830 %	0.008 ppb	0.064 ppb	97.728 %	0.036 ppb
Concentration per Run 3	-0.152 ppb	0.822 ppb	0.510 ppb	419.607 ppb	96.178 %	0.006 ppb	0.055 ppb	99.579 %	0.068 ppb
Recovery Percentage 1	-2.298 %	15.309 %	4.983 %	20,347.468 %		1.380 %	29.008 %		1.294 %
Concentration RSD	1,263.3 %	24.5 %	2.0 %	3.2 %	1.2 %	47.9 %	9.6 %	1.0 %	30.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.265 ppb	101.842 %	102.747 %	0.042 ppb	0.287 ppb	97.443 %
Concentration per Run 1	0.231 ppb	101.681 %	101.663 %	0.023 ppb	0.269 ppb	103.226 %
Concentration per Run 2	0.257 ppb	102.032 %	103.987 %	0.047 ppb	0.285 ppb	95.271 %
Concentration per Run 3	0.306 ppb	101.814 %	102.591 %	0.056 ppb	0.307 ppb	93.832 %
Recovery Percentage 1	52.907 %			4.208 %	28.689 %	
Concentration RSD	14.3 %	0.2 %	1.1 %	40.0 %	6.6 %	5.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	14	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	12/5/2023 6:46:42 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.659 %	112.484 %	0.013 ppb	2.867 ppb	1.868 ppb	0.481 ppb	0.880 ppb	1.758 ppb	93.370 %
Concentration per Run 1	86.779 %	116.730 %	0.012 ppb	2.525 ppb	2.036 ppb	0.740 ppb	1.901 ppb	5.952 ppb	94.164 %
Concentration per Run 2	86.053 %	111.027 %	0.014 ppb	2.636 ppb	1.476 ppb	0.081 ppb	-3.167 ppb	-3.668 ppb	93.143 %
Concentration per Run 3	84.144 %	109.696 %	0.014 ppb	3.440 ppb	2.093 ppb	0.622 ppb	3.906 ppb	2.992 ppb	92.804 %
Concentration RSD	1.6 %	3.3 %	10.0 %	17.4 %	18.2 %	73.0 %	414.4 %	280.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.054 ppb	0.011 ppb	-0.025 ppb	49.973 ppb	-0.001 ppb	0.200 ppb	0.044 ppb	2.420 ppb	103.680 %
Concentration per Run 1	-0.046 ppb	0.016 ppb	-0.042 ppb	54.803 ppb	0.003 ppb	0.209 ppb	0.070 ppb	2.590 ppb	97.585 %
Concentration per Run 2	-0.047 ppb	0.041 ppb	-0.020 ppb	50.437 ppb	-0.003 ppb	0.228 ppb	0.019 ppb	2.377 ppb	103.244 %
Concentration per Run 3	-0.069 ppb	-0.024 ppb	-0.012 ppb	44.678 ppb	-0.001 ppb	0.165 ppb	0.043 ppb	2.294 ppb	110.212 %
Concentration RSD	23.7 %	291.4 %	63.0 %	10.2 %	488.5 %	16.2 %	58.1 %	6.3 %	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.082 ppb	-0.059 ppb	0.000 ppb	4.543 ppb	100.285 %	0.005 ppb	0.004 ppb	98.496 %	0.014 ppb
Concentration per Run 1	-0.104 ppb	-0.034 ppb	0.006 ppb	4.638 ppb	98.449 %	0.007 ppb	0.004 ppb	94.917 %	0.003 ppb
Concentration per Run 2	-0.015 ppb	-0.153 ppb	-0.002 ppb	4.531 ppb	99.331 %	0.005 ppb	0.004 ppb	96.467 %	0.010 ppb
Concentration per Run 3	-0.126 ppb	0.009 ppb	-0.003 ppb	4.460 ppb	103.076 %	0.004 ppb	0.004 ppb	104.103 %	0.029 ppb
Concentration RSD	71.5 %	142.0 %	181,649.7 %	2.0 %	2.4 %	29.3 %	6.0 %	5.0 %	92.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.021 ppb	100.573 %	101.981 %	0.029 ppb	0.017 ppb	98.467 %
Concentration per Run 1	0.027 ppb	98.283 %	99.036 %	0.015 ppb	0.016 ppb	100.157 %
Concentration per Run 2	0.013 ppb	98.514 %	101.818 %	0.035 ppb	0.018 ppb	96.847 %
Concentration per Run 3	0.024 ppb	104.923 %	105.089 %	0.037 ppb	0.016 ppb	98.398 %
Concentration RSD	33.0 %	3.7 %	3.0 %	43.3 %	7.8 %	1.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	15	User name	ALPHALAB\Metals-Instrument	Comment	CCV/MCCV
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 6:51:18 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.537 %	108.429 %	62.405 ppb	5,716.027 ppb	6,071.493 ppb	59.708 ppb	6,078.307 ppb	6,048.950 ppb	102.862 %
Concentration per Run 1	89.998 %	108.555 %	62.018 ppb	5,394.517 ppb	6,010.321 ppb	58.435 ppb	5,972.712 ppb	5,931.719 ppb	103.653 %
Concentration per Run 2	88.117 %	109.886 %	62.483 ppb	6,161.525 ppb	5,930.826 ppb	55.530 ppb	5,891.856 ppb	6,122.671 ppb	103.088 %
Concentration per Run 3	84.496 %	106.844 %	62.713 ppb	5,592.038 ppb	6,273.332 ppb	65.160 ppb	6,370.351 ppb	6,092.460 ppb	101.845 %
Recovery Percentage 1			104.008 %	95.267 %	101.192 %	99.514 %	101.305 %	100.816 %	
Concentration RSD	3.2 %	1.4 %	0.6 %	7.0 %	3.0 %	8.3 %	4.2 %	1.7 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.657 ppb	59.178 ppb	62.002 ppb	6,003.538 ppb	59.948 ppb	60.103 ppb	59.455 ppb	59.002 ppb	108.883 %
Concentration per Run 1	61.185 ppb	61.128 ppb	61.438 ppb	5,978.343 ppb	60.394 ppb	60.247 ppb	59.181 ppb	59.355 ppb	104.466 %
Concentration per Run 2	58.422 ppb	57.379 ppb	61.440 ppb	6,029.702 ppb	60.031 ppb	60.191 ppb	59.541 ppb	59.086 ppb	107.775 %
Concentration per Run 3	59.362 ppb	59.029 ppb	63.128 ppb	6,002.569 ppb	59.418 ppb	59.871 ppb	59.643 ppb	58.566 ppb	114.408 %
Recovery Percentage 1	99.428 %	98.631 %	103.336 %	100.059 %	99.913 %	100.172 %	99.092 %	98.337 %	
Concentration RSD	2.4 %	3.2 %	1.6 %	0.4 %	0.8 %	0.3 %	0.4 %	0.7 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.344 ppb	60.922 ppb	59.932 ppb	60.676 ppb	100.584 %	59.677 ppb	60.266 ppb	101.006 %	60.360 ppb
Concentration per Run 1	59.536 ppb	57.030 ppb	58.517 ppb	59.560 ppb	99.077 %	59.818 ppb	60.209 ppb	96.514 %	61.405 ppb
Concentration per Run 2	58.741 ppb	61.308 ppb	58.782 ppb	60.308 ppb	99.812 %	60.306 ppb	60.777 ppb	100.995 %	58.514 ppb
Concentration per Run 3	59.757 ppb	64.428 ppb	62.496 ppb	62.160 ppb	102.861 %	58.906 ppb	59.812 ppb	105.507 %	61.162 ppb
Recovery Percentage 1	98.907 %	101.536 %	99.886 %	101.127 %		99.461 %	100.444 %		100.600 %
Concentration RSD	0.9 %	6.1 %	3.7 %	2.2 %	2.0 %	1.2 %	0.8 %	4.5 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.664 ppb	102.989 %	104.457 %	58.425 ppb	56.949 ppb	99.873 %
Concentration per Run 1	57.699 ppb	100.956 %	100.214 %	54.579 ppb	55.025 ppb	101.616 %
Concentration per Run 2	58.201 ppb	101.212 %	104.751 %	59.465 ppb	57.608 ppb	98.752 %
Concentration per Run 3	60.092 ppb	106.799 %	108.406 %	61.232 ppb	58.215 ppb	99.251 %
Recovery Percentage 1	97.773 %			97.375 %	94.916 %	
Concentration RSD	2.2 %	3.2 %	3.9 %	5.9 %	3.0 %	1.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	16	User name	ALPHALAB\Metals-Instrument	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 6:56:00 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.722 %	108.175 %	0.008 ppb	0.063 ppb	-0.103 ppb	-0.370 ppb	5.435 ppb	-5.034 ppb	92.049 %
Concentration per Run 1	86.390 %	101.521 %	0.011 ppb	4.729 ppb	-0.385 ppb	-0.390 ppb	11.619 ppb	-4.877 ppb	91.063 %
Concentration per Run 2	84.879 %	105.133 %	0.010 ppb	-1.506 ppb	-0.020 ppb	-0.247 ppb	1.635 ppb	-6.583 ppb	93.750 %
Concentration per Run 3	82.897 %	117.871 %	0.003 ppb	-3.034 ppb	0.097 ppb	-0.474 ppb	3.052 ppb	-3.642 ppb	91.335 %
Recovery Percentage 1			1.650 %	0.063 %	-0.147 %	-3.703 %	5.435 %	-5.034 %	
Concentration RSD	2.1 %	7.9 %	54.8 %	6,536.7 %	244.1 %	31.0 %	99.4 %	29.3 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.059 ppb	-0.020 ppb	-0.032 ppb	17.798 ppb	-0.004 ppb	0.005 ppb	-0.016 ppb	0.037 ppb	105.028 %
Concentration per Run 1	-0.074 ppb	0.017 ppb	-0.027 ppb	17.299 ppb	-0.009 ppb	0.000 ppb	-0.023 ppb	0.028 ppb	99.895 %
Concentration per Run 2	-0.040 ppb	-0.036 ppb	-0.044 ppb	17.836 ppb	-0.005 ppb	0.026 ppb	-0.011 ppb	0.030 ppb	104.806 %
Concentration per Run 3	-0.063 ppb	-0.043 ppb	-0.026 ppb	18.260 ppb	0.001 ppb	-0.011 ppb	-0.013 ppb	0.054 ppb	110.382 %
Recovery Percentage 1	-1.181 %	-2.025 %	-3.240 %	35.596 %	-0.795 %	0.251 %	-1.590 %	0.749 %	
Concentration RSD	30.0 %	162.3 %	30.5 %	2.7 %	124.7 %	374.7 %	39.7 %	39.2 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.057 ppb	0.109 ppb	-0.007 ppb	1.242 ppb	99.235 %	0.006 ppb	0.000 ppb	101.823 %	0.029 ppb
Concentration per Run 1	-0.084 ppb	-0.073 ppb	-0.007 ppb	1.108 ppb	98.937 %	0.007 ppb	0.004 ppb	100.072 %	0.024 ppb
Concentration per Run 2	-0.002 ppb	-0.045 ppb	-0.007 ppb	1.320 ppb	97.798 %	0.009 ppb	-0.002 ppb	97.970 %	0.029 ppb
Concentration per Run 3	-0.085 ppb	0.445 ppb	-0.007 ppb	1.299 ppb	100.971 %	0.003 ppb	-0.002 ppb	107.427 %	0.036 ppb
Recovery Percentage 1	-11.439 %	2.179 %	-0.069 %	62.119 %		1.622 %	0.009 %		0.736 %
Concentration RSD	82.9 %	267.7 %	6.2 %	9.4 %	1.6 %	45.2 %	17,399.7 %	4.9 %	20.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.004 ppb	98.742 %	102.440 %	0.422 ppb	0.014 ppb	99.223 %
Concentration per Run 1	0.000 ppb	97.980 %	100.632 %	0.356 ppb	0.017 ppb	102.140 %
Concentration per Run 2	0.000 ppb	97.058 %	100.505 %	0.496 ppb	0.014 ppb	96.818 %
Concentration per Run 3	0.012 ppb	101.189 %	106.182 %	0.415 ppb	0.010 ppb	98.712 %
Recovery Percentage 1	0.814 %			42.238 %	1.350 %	
Concentration RSD	163.7 %	2.2 %	3.2 %	16.7 %	27.0 %	2.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	17	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1858114-1 2008SL	Rack	1		
Analysis started at:	12/5/2023 7:41:41 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.512 %	105.323 %	0.000 ppb	2.154 ppb	1.383 ppb	1.195 ppb	1.401 ppb	11.715 ppb	101.281 %
Concentration per Run 1	105.907 %	105.894 %	0.001 ppb	1.688 ppb	1.766 ppb	1.033 ppb	-2.600 ppb	11.698 ppb	101.288 %
Concentration per Run 2	102.855 %	108.175 %	-0.003 ppb	-2.412 ppb	0.451 ppb	1.306 ppb	-0.622 ppb	14.620 ppb	101.031 %
Concentration per Run 3	101.774 %	101.901 %	0.003 ppb	7.185 ppb	1.933 ppb	1.246 ppb	7.426 ppb	8.828 ppb	101.523 %
Concentration RSD	2.1 %	3.0 %	830.1 %	223.6 %	58.7 %	12.0 %	378.9 %	24.7 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.056 ppb	0.087 ppb	0.109 ppb	0.634 ppb	-0.002 ppb	0.011 ppb	-0.020 ppb	0.446 ppb	103.357 %
Concentration per Run 1	-0.067 ppb	0.087 ppb	0.199 ppb	0.605 ppb	-0.001 ppb	0.067 ppb	-0.001 ppb	0.435 ppb	96.235 %
Concentration per Run 2	-0.042 ppb	0.063 ppb	0.083 ppb	1.550 ppb	0.000 ppb	-0.014 ppb	-0.032 ppb	0.430 ppb	110.189 %
Concentration per Run 3	-0.060 ppb	0.112 ppb	0.046 ppb	-0.254 ppb	-0.005 ppb	-0.021 ppb	-0.027 ppb	0.472 ppb	103.646 %
Concentration RSD	23.1 %	27.7 %	72.7 %	142.4 %	131.2 %	458.8 %	82.5 %	5.1 %	6.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.023 ppb	-0.088 ppb	0.004 ppb	0.027 ppb	100.326 %	0.001 ppb	-0.001 ppb	103.193 %	-0.011 ppb
Concentration per Run 1	0.161 ppb	-0.092 ppb	0.017 ppb	-0.004 ppb	98.798 %	0.000 ppb	-0.002 ppb	102.195 %	-0.005 ppb
Concentration per Run 2	-0.111 ppb	-0.136 ppb	-0.013 ppb	0.015 ppb	100.695 %	0.001 ppb	0.000 ppb	105.091 %	-0.014 ppb
Concentration per Run 3	0.019 ppb	-0.035 ppb	0.008 ppb	0.070 ppb	101.486 %	0.001 ppb	-0.002 ppb	102.292 %	-0.015 ppb
Concentration RSD	588.0 %	57.4 %	376.9 %	140.9 %	1.4 %	40.9 %	83.0 %	1.6 %	47.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.038 ppb	99.899 %	101.980 %	0.092 ppb	0.001 ppb	96.040 %
Concentration per Run 1	0.025 ppb	99.262 %	102.289 %	0.143 ppb	0.002 ppb	96.622 %
Concentration per Run 2	0.049 ppb	101.948 %	101.112 %	0.082 ppb	0.000 ppb	95.670 %
Concentration per Run 3	0.038 ppb	98.486 %	102.540 %	0.051 ppb	0.000 ppb	95.827 %
Concentration RSD	31.6 %	1.8 %	0.7 %	50.7 %	133.8 %	0.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	18	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1834947-1 A2-6020T	Rack	1		
Analysis started at:	12/5/2023 7:46:18 AM	Vial	27		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	112.120 %	119.138 %	0.000 ppb	16.876 ppb	5.090 ppb	4.728 ppb	-0.905 ppb	53.430 ppb	184.639 %
Concentration per Run 1	114.899 %	109.696 %	0.003 ppb	24.873 ppb	6.191 ppb	4.468 ppb	3.624 ppb	49.545 ppb	196.198 %
Concentration per Run 2	111.791 %	118.061 %	-0.002 ppb	15.412 ppb	4.610 ppb	4.818 ppb	5.858 ppb	54.598 ppb	180.145 %
Concentration per Run 3	109.672 %	129.658 %	-0.002 ppb	10.342 ppb	4.469 ppb	4.896 ppb	-12.195 ppb	56.147 ppb	177.575 %
Concentration RSD	2.3 %	8.4 %	1,210.9 %	43.7 %	18.8 %	4.8 %	1,088.1 %	6.5 %	5.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.030 ppb	0.219 ppb	2.029 ppb	21.194 ppb	0.017 ppb	0.221 ppb	0.191 ppb	16.995 ppb	118.891 %
Concentration per Run 1	-0.008 ppb	0.268 ppb	2.069 ppb	24.803 ppb	0.022 ppb	0.242 ppb	0.207 ppb	17.626 ppb	109.577 %
Concentration per Run 2	-0.041 ppb	0.209 ppb	1.966 ppb	19.442 ppb	0.009 ppb	0.215 ppb	0.169 ppb	16.633 ppb	125.068 %
Concentration per Run 3	-0.042 ppb	0.179 ppb	2.053 ppb	19.337 ppb	0.021 ppb	0.207 ppb	0.196 ppb	16.727 ppb	122.029 %
Concentration RSD	63.8 %	20.5 %	2.7 %	14.7 %	40.7 %	8.3 %	10.4 %	3.2 %	6.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.078 ppb	-0.048 ppb	0.127 ppb	1.500 ppb	116.083 %	0.004 ppb	0.000 ppb	119.496 %	0.072 ppb
Concentration per Run 1	0.112 ppb	-0.041 ppb	0.139 ppb	1.604 ppb	112.749 %	0.004 ppb	-0.002 ppb	115.261 %	0.074 ppb
Concentration per Run 2	-0.194 ppb	-0.061 ppb	0.119 ppb	1.503 ppb	116.619 %	0.005 ppb	0.001 ppb	120.235 %	0.062 ppb
Concentration per Run 3	-0.152 ppb	-0.043 ppb	0.123 ppb	1.393 ppb	118.879 %	0.003 ppb	0.001 ppb	122.990 %	0.080 ppb
Concentration RSD	212.1 %	22.5 %	8.4 %	7.1 %	2.7 %	30.8 %	833.6 %	3.3 %	12.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.136 ppb	115.057 %	119.246 %	0.084 ppb	0.041 ppb	116.600 %
Concentration per Run 1	0.089 ppb	112.451 %	116.084 %	0.064 ppb	0.040 ppb	122.826 %
Concentration per Run 2	0.216 ppb	115.217 %	119.652 %	0.101 ppb	0.038 ppb	114.174 %
Concentration per Run 3	0.105 ppb	117.504 %	122.001 %	0.089 ppb	0.043 ppb	112.800 %
Concentration RSD	50.9 %	2.2 %	2.5 %	22.2 %	6.7 %	4.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 19
Analysis label: WG1858114-2d5 2008SL
Analysis started at: 12/5/2023 7:54:39 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 2
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.691 %	111.344 %	10.362 ppb	1,804.288 ppb	1,997.341 ppb	408.789 ppb	2,004.043 ppb	2,107.879 ppb	95.505 %
Concentration per Run 1	96.304 %	109.316 %	10.274 ppb	1,754.453 ppb	1,920.216 ppb	397.400 ppb	1,920.032 ppb	2,212.710 ppb	95.658 %
Concentration per Run 2	95.267 %	110.647 %	10.314 ppb	1,862.632 ppb	2,092.311 ppb	420.954 ppb	2,109.976 ppb	2,001.296 ppb	96.591 %
Concentration per Run 3	92.503 %	114.069 %	10.497 ppb	1,795.779 ppb	1,979.496 ppb	408.012 ppb	1,982.120 ppb	2,109.631 ppb	94.268 %
Concentration RSD	2.1 %	2.2 %	1.2 %	3.0 %	4.4 %	2.9 %	4.8 %	5.0 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	98.823 ppb	39.640 ppb	100.886 ppb	208.181 ppb	102.687 ppb	101.459 ppb	50.771 ppb	98.988 ppb	104.417 %
Concentration per Run 1	102.792 ppb	40.187 ppb	101.777 ppb	217.995 ppb	104.745 ppb	105.178 ppb	52.145 ppb	100.536 ppb	97.077 %
Concentration per Run 2	97.246 ppb	39.895 ppb	101.344 ppb	211.124 ppb	101.304 ppb	102.295 ppb	50.351 ppb	98.606 ppb	107.307 %
Concentration per Run 3	96.431 ppb	38.838 ppb	99.537 ppb	195.424 ppb	102.011 ppb	96.903 ppb	49.818 ppb	97.822 ppb	108.866 %
Concentration RSD	3.5 %	1.8 %	1.2 %	5.6 %	1.8 %	4.1 %	2.4 %	1.4 %	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	23.296 ppb	22.983 ppb	186.733 ppb	208.072 ppb	100.270 %	10.081 ppb	10.683 ppb	102.079 %	86.188 ppb
Concentration per Run 1	23.545 ppb	23.243 ppb	184.790 ppb	216.927 ppb	97.419 %	10.297 ppb	10.744 ppb	96.730 %	83.811 ppb
Concentration per Run 2	23.140 ppb	22.439 ppb	188.234 ppb	205.338 ppb	101.493 %	9.990 ppb	10.745 ppb	102.593 %	86.091 ppb
Concentration per Run 3	23.205 ppb	23.267 ppb	187.175 ppb	201.950 ppb	101.897 %	9.954 ppb	10.560 ppb	106.914 %	88.662 ppb
Concentration RSD	0.9 %	2.1 %	0.9 %	3.8 %	2.5 %	1.9 %	1.0 %	5.0 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	381.049 ppb	99.684 %	101.948 %	24.978 ppb	110.523 ppb	96.362 %
Concentration per Run 1	381.387 ppb	95.503 %	98.152 %	24.706 ppb	112.302 ppb	93.845 %
Concentration per Run 2	384.425 ppb	101.383 %	103.850 %	25.145 ppb	111.435 ppb	96.431 %
Concentration per Run 3	377.336 ppb	102.166 %	103.842 %	25.084 ppb	107.833 ppb	98.810 %
Concentration RSD	0.9 %	3.7 %	3.2 %	1.0 %	2.1 %	2.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	20	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1858114-3d10 2008SL	Rack	1		
Analysis started at:	12/5/2023 7:59:16 AM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.858 %	110.710 %	5.085 ppb	2,804.005 ppb	1,368.149 ppb	199.306 ppb	1,473.776 ppb	3,007.676 ppb	93.932 %
Concentration per Run 1	94.486 %	113.879 %	5.057 ppb	2,578.788 ppb	1,264.258 ppb	180.820 ppb	1,333.908 ppb	2,836.878 ppb	94.865 %
Concentration per Run 2	91.081 %	110.456 %	5.111 ppb	2,893.951 ppb	1,439.505 ppb	207.178 ppb	1,565.127 ppb	3,142.003 ppb	94.312 %
Concentration per Run 3	90.006 %	107.795 %	5.086 ppb	2,939.277 ppb	1,400.684 ppb	209.920 ppb	1,522.292 ppb	3,044.149 ppb	92.618 %
Concentration RSD	2.5 %	2.8 %	0.5 %	7.0 %	6.7 %	8.1 %	8.3 %	5.2 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.106 ppb	19.184 ppb	49.533 ppb	103.723 ppb	49.984 ppb	49.309 ppb	24.941 ppb	47.751 ppb	104.642 %
Concentration per Run 1	47.475 ppb	18.728 ppb	47.960 ppb	98.355 ppb	49.508 ppb	48.745 ppb	25.094 ppb	46.598 ppb	102.004 %
Concentration per Run 2	47.321 ppb	19.390 ppb	50.598 ppb	106.464 ppb	50.767 ppb	50.113 ppb	24.517 ppb	48.243 ppb	105.344 %
Concentration per Run 3	46.522 ppb	19.434 ppb	50.040 ppb	106.350 ppb	49.677 ppb	49.070 ppb	25.212 ppb	48.413 ppb	106.578 %
Concentration RSD	1.1 %	2.1 %	2.8 %	4.5 %	1.4 %	1.4 %	1.5 %	2.1 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.762 ppb	11.261 ppb	99.202 ppb	97.661 ppb	98.922 %	4.917 ppb	5.123 ppb	102.545 %	45.087 ppb
Concentration per Run 1	11.862 ppb	10.888 ppb	95.788 ppb	95.070 ppb	96.222 %	5.018 ppb	5.246 ppb	95.420 %	45.288 ppb
Concentration per Run 2	11.706 ppb	10.643 ppb	101.945 ppb	98.462 ppb	99.335 %	4.885 ppb	5.157 ppb	105.304 %	44.892 ppb
Concentration per Run 3	11.717 ppb	12.251 ppb	99.872 ppb	99.452 ppb	101.209 %	4.847 ppb	4.965 ppb	106.910 %	45.082 ppb
Concentration RSD	0.7 %	7.7 %	3.2 %	2.4 %	2.5 %	1.8 %	2.8 %	6.1 %	0.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	188.596 ppb	100.198 %	99.198 %	11.870 ppb	48.379 ppb	99.332 %
Concentration per Run 1	190.236 ppb	96.983 %	95.121 %	11.197 ppb	45.833 ppb	102.571 %
Concentration per Run 2	190.209 ppb	101.706 %	101.058 %	11.962 ppb	49.004 ppb	99.211 %
Concentration per Run 3	185.343 ppb	101.905 %	101.413 %	12.451 ppb	50.301 ppb	96.215 %
Concentration RSD	1.5 %	2.8 %	3.6 %	5.3 %	4.8 %	3.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	21	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1858114-4d10 2008SL	Rack	1		
Analysis started at:	12/5/2023 8:03:54 AM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.145 %	106.654 %	5.205 ppb	2,851.104 ppb	1,399.467 ppb	206.479 ppb	1,543.844 ppb	3,198.038 ppb	93.337 %
Concentration per Run 1	93.020 %	102.091 %	5.181 ppb	2,836.743 ppb	1,370.914 ppb	202.906 ppb	1,532.231 ppb	3,224.433 ppb	94.776 %
Concentration per Run 2	90.139 %	111.027 %	5.124 ppb	2,775.896 ppb	1,372.016 ppb	209.827 ppb	1,545.900 ppb	3,056.169 ppb	93.763 %
Concentration per Run 3	87.276 %	106.844 %	5.312 ppb	2,940.673 ppb	1,455.472 ppb	206.702 ppb	1,553.402 ppb	3,313.513 ppb	91.471 %
Concentration RSD	3.2 %	4.2 %	1.9 %	2.9 %	3.5 %	1.7 %	0.7 %	4.1 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.594 ppb	19.177 ppb	50.461 ppb	106.543 ppb	49.989 ppb	50.229 ppb	25.004 ppb	48.406 ppb	104.295 %
Concentration per Run 1	48.553 ppb	19.510 ppb	49.660 ppb	109.295 ppb	50.957 ppb	51.524 ppb	25.395 ppb	48.737 ppb	101.259 %
Concentration per Run 2	46.303 ppb	19.334 ppb	49.605 ppb	104.251 ppb	49.049 ppb	48.512 ppb	25.021 ppb	47.503 ppb	106.731 %
Concentration per Run 3	47.926 ppb	18.687 ppb	52.120 ppb	106.082 ppb	49.961 ppb	50.652 ppb	24.595 ppb	48.977 ppb	104.894 %
Concentration RSD	2.4 %	2.3 %	2.8 %	2.4 %	1.9 %	3.1 %	1.6 %	1.6 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.460 ppb	10.752 ppb	98.431 ppb	97.977 ppb	99.663 %	4.904 ppb	5.212 ppb	101.109 %	43.362 ppb
Concentration per Run 1	11.315 ppb	9.922 ppb	94.797 ppb	95.523 ppb	97.273 %	4.882 ppb	5.194 ppb	95.695 %	44.084 ppb
Concentration per Run 2	11.167 ppb	11.569 ppb	99.795 ppb	97.480 ppb	100.915 %	4.951 ppb	5.168 ppb	105.931 %	41.534 ppb
Concentration per Run 3	11.897 ppb	10.766 ppb	100.700 ppb	100.926 ppb	100.803 %	4.880 ppb	5.273 ppb	101.703 %	44.468 ppb
Concentration RSD	3.4 %	7.7 %	3.2 %	2.8 %	2.1 %	0.8 %	1.0 %	5.1 %	3.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	192.968 ppb	98.303 %	99.803 %	12.190 ppb	48.966 ppb	97.805 %
Concentration per Run 1	200.300 ppb	95.558 %	97.109 %	11.728 ppb	46.406 ppb	100.918 %
Concentration per Run 2	184.468 ppb	98.764 %	99.726 %	12.473 ppb	49.956 ppb	96.416 %
Concentration per Run 3	194.137 ppb	100.587 %	102.572 %	12.370 ppb	50.536 ppb	96.080 %
Concentration RSD	4.1 %	2.6 %	2.7 %	3.3 %	4.6 %	2.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	22	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1858114-5d10 2008SL	Rack	1		
Analysis started at:	12/5/2023 8:08:33 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.121 %	106.084 %	5.302 ppb	2,175.852 ppb	1,440.811 ppb	213.869 ppb	1,354.851 ppb	2,906.838 ppb	93.371 %
Concentration per Run 1	91.472 %	100.951 %	5.292 ppb	2,186.207 ppb	1,431.655 ppb	210.164 ppb	1,312.696 ppb	2,970.964 ppb	94.077 %
Concentration per Run 2	89.541 %	114.069 %	5.317 ppb	2,127.457 ppb	1,408.766 ppb	209.868 ppb	1,369.192 ppb	2,983.483 ppb	93.684 %
Concentration per Run 3	86.349 %	103.232 %	5.296 ppb	2,213.891 ppb	1,482.013 ppb	221.576 ppb	1,382.664 ppb	2,766.067 ppb	92.353 %
Concentration RSD	2.9 %	6.6 %	0.3 %	2.0 %	2.6 %	3.1 %	2.7 %	4.2 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.990 ppb	20.196 ppb	51.594 ppb	117.082 ppb	52.090 ppb	52.041 ppb	26.440 ppb	50.225 ppb	102.580 %
Concentration per Run 1	48.956 ppb	20.328 ppb	51.686 ppb	119.685 ppb	52.629 ppb	52.746 ppb	26.651 ppb	50.047 ppb	99.273 %
Concentration per Run 2	48.773 ppb	20.200 ppb	52.409 ppb	111.241 ppb	52.563 ppb	51.182 ppb	26.856 ppb	51.403 ppb	101.110 %
Concentration per Run 3	49.241 ppb	20.062 ppb	50.686 ppb	120.320 ppb	51.077 ppb	52.196 ppb	25.814 ppb	49.225 ppb	107.355 %
Concentration RSD	0.5 %	0.7 %	1.7 %	4.3 %	1.7 %	1.5 %	2.1 %	2.2 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.109 ppb	12.499 ppb	100.328 ppb	99.604 ppb	98.189 %	4.970 ppb	5.200 ppb	101.448 %	40.277 ppb
Concentration per Run 1	11.794 ppb	12.954 ppb	96.969 ppb	95.764 ppb	95.542 %	4.987 ppb	5.127 ppb	97.111 %	39.562 ppb
Concentration per Run 2	12.667 ppb	12.245 ppb	102.990 ppb	100.119 ppb	100.229 %	4.871 ppb	5.287 ppb	101.919 %	40.648 ppb
Concentration per Run 3	11.867 ppb	12.298 ppb	101.026 ppb	102.928 ppb	98.796 %	5.053 ppb	5.186 ppb	105.314 %	40.620 ppb
Concentration RSD	4.0 %	3.2 %	3.1 %	3.6 %	2.4 %	1.9 %	1.6 %	4.1 %	1.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	193.813 ppb	98.080 %	99.358 %	12.076 ppb	49.637 ppb	97.985 %
Concentration per Run 1	188.551 ppb	95.332 %	95.554 %	11.595 ppb	47.266 ppb	100.654 %
Concentration per Run 2	199.517 ppb	98.984 %	100.086 %	12.519 ppb	51.260 ppb	95.776 %
Concentration per Run 3	193.370 ppb	99.924 %	102.434 %	12.113 ppb	50.386 ppb	97.524 %
Concentration RSD	2.8 %	2.5 %	3.5 %	3.8 %	4.2 %	2.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 23
Analysis label: WG1858114-6 2008SL
Analysis started at: 12/5/2023 8:13:12 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 8
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.114 %	103.042 %	0.012 ppb	14,743.820 ppb	4,071.943 ppb	11.881 ppb	3,747.872 ppb	18,435.240 ppb	96.640 %
Concentration per Run 1	93.901 %	98.289 %	0.011 ppb	14,735.064 ppb	4,021.138 ppb	11.917 ppb	3,632.890 ppb	18,527.825 ppb	95.954 %
Concentration per Run 2	93.106 %	107.224 %	0.018 ppb	14,674.923 ppb	4,011.709 ppb	11.069 ppb	3,908.647 ppb	18,329.604 ppb	97.984 %
Concentration per Run 3	89.335 %	103.612 %	0.008 ppb	14,821.474 ppb	4,182.983 ppb	12.658 ppb	3,702.079 ppb	18,448.289 ppb	95.981 %
Concentration RSD	2.6 %	4.4 %	40.1 %	0.5 %	2.4 %	6.7 %	3.8 %	0.5 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.353 ppb	0.117 ppb	6.121 ppb	65.588 ppb	0.099 ppb	0.697 ppb	0.986 ppb	1.271 ppb	103.981 %
Concentration per Run 1	0.261 ppb	0.122 ppb	6.248 ppb	68.385 ppb	0.099 ppb	0.629 ppb	1.010 ppb	1.230 ppb	97.444 %
Concentration per Run 2	0.396 ppb	0.119 ppb	6.316 ppb	64.397 ppb	0.103 ppb	0.788 ppb	0.972 ppb	1.320 ppb	104.910 %
Concentration per Run 3	0.401 ppb	0.111 ppb	5.800 ppb	63.981 ppb	0.095 ppb	0.674 ppb	0.976 ppb	1.263 ppb	109.590 %
Concentration RSD	22.6 %	4.7 %	4.6 %	3.7 %	4.2 %	11.8 %	2.1 %	3.6 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.193 ppb	0.250 ppb	73.112 ppb	2.610 ppb	99.162 %	0.002 ppb	0.004 ppb	102.702 %	2.710 ppb
Concentration per Run 1	0.308 ppb	0.168 ppb	72.032 ppb	2.621 ppb	97.212 %	0.004 ppb	0.010 ppb	100.000 %	2.694 ppb
Concentration per Run 2	0.237 ppb	0.430 ppb	74.258 ppb	2.497 ppb	99.768 %	0.002 ppb	0.002 ppb	103.981 %	2.646 ppb
Concentration per Run 3	0.033 ppb	0.154 ppb	73.046 ppb	2.713 ppb	100.507 %	0.002 ppb	0.000 ppb	104.123 %	2.791 ppb
Concentration RSD	74.0 %	62.1 %	1.5 %	4.2 %	1.7 %	49.7 %	134.9 %	2.3 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	28.670 ppb	99.479 %	102.341 %	0.041 ppb	0.049 ppb	94.753 %
Concentration per Run 1	29.339 ppb	95.337 %	96.738 %	0.042 ppb	0.053 ppb	93.523 %
Concentration per Run 2	28.537 ppb	102.691 %	104.436 %	0.042 ppb	0.049 ppb	95.461 %
Concentration per Run 3	28.133 ppb	100.408 %	105.848 %	0.038 ppb	0.044 ppb	95.276 %
Concentration RSD	2.1 %	3.8 %	4.8 %	4.5 %	8.7 %	1.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	24	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370175-05 2008SL	Rack	1		
Analysis started at:	12/5/2023 8:17:51 AM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.905 %	105.513 %	0.009 ppb	23,553.223 ppb	4,096.319 ppb	10.755 ppb	5,293.482 ppb	22,325.592 ppb	96.674 %
Concentration per Run 1	94.463 %	99.240 %	0.008 ppb	24,242.681 ppb	4,291.816 ppb	11.891 ppb	5,285.295 ppb	23,229.677 ppb	95.956 %
Concentration per Run 2	91.422 %	111.217 %	0.012 ppb	23,033.583 ppb	3,981.380 ppb	10.025 ppb	5,404.828 ppb	21,919.067 ppb	97.366 %
Concentration per Run 3	89.830 %	106.084 %	0.006 ppb	23,383.404 ppb	4,015.762 ppb	10.348 ppb	5,190.321 ppb	21,828.031 ppb	96.698 %
Concentration RSD	2.6 %	5.7 %	37.6 %	2.6 %	4.2 %	9.3 %	2.0 %	3.5 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.491 ppb	0.270 ppb	11.173 ppb	64.735 ppb	0.120 ppb	0.814 ppb	1.031 ppb	2.060 ppb	102.883 %
Concentration per Run 1	0.424 ppb	0.319 ppb	11.971 ppb	66.744 ppb	0.137 ppb	0.871 ppb	1.066 ppb	2.118 ppb	95.926 %
Concentration per Run 2	0.513 ppb	0.219 ppb	10.788 ppb	64.471 ppb	0.118 ppb	0.807 ppb	1.041 ppb	2.017 ppb	105.341 %
Concentration per Run 3	0.536 ppb	0.271 ppb	10.760 ppb	62.989 ppb	0.105 ppb	0.765 ppb	0.985 ppb	2.044 ppb	107.381 %
Concentration RSD	12.1 %	18.5 %	6.2 %	2.9 %	13.3 %	6.6 %	4.0 %	2.5 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.308 ppb	0.118 ppb	80.869 ppb	1.121 ppb	97.515 %	0.000 ppb	0.006 ppb	102.069 %	1.294 ppb
Concentration per Run 1	0.308 ppb	0.070 ppb	81.424 ppb	0.982 ppb	94.842 %	0.000 ppb	0.002 ppb	103.256 %	1.175 ppb
Concentration per Run 2	0.340 ppb	0.215 ppb	81.047 ppb	1.091 ppb	99.395 %	0.001 ppb	0.010 ppb	98.868 %	1.415 ppb
Concentration per Run 3	0.275 ppb	0.067 ppb	80.135 ppb	1.289 ppb	98.308 %	0.000 ppb	0.005 ppb	104.084 %	1.293 ppb
Concentration RSD	10.5 %	72.0 %	0.8 %	13.9 %	2.4 %	143.8 %	67.9 %	2.7 %	9.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	27.082 ppb	98.514 %	101.387 %	0.011 ppb	0.034 ppb	95.744 %
Concentration per Run 1	26.300 ppb	97.274 %	97.195 %	0.007 ppb	0.032 ppb	97.827 %
Concentration per Run 2	28.802 ppb	97.973 %	103.565 %	0.013 ppb	0.035 ppb	95.564 %
Concentration per Run 3	26.144 ppb	100.293 %	103.402 %	0.013 ppb	0.035 ppb	93.841 %
Concentration RSD	5.5 %	1.6 %	3.6 %	28.8 %	4.2 %	2.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	25	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370175-06 2008SL	Rack	1		
Analysis started at:	12/5/2023 8:22:29 AM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.935 %	106.591 %	0.008 ppb	14,589.560 ppb	3,965.889 ppb	10.596 ppb	3,757.253 ppb	18,736.084 ppb	96.296 %
Concentration per Run 1	95.541 %	97.528 %	0.008 ppb	15,254.015 ppb	4,123.891 ppb	12.812 ppb	3,853.949 ppb	19,516.692 ppb	97.328 %
Concentration per Run 2	90.865 %	110.456 %	0.012 ppb	14,095.608 ppb	3,912.386 ppb	9.973 ppb	3,772.166 ppb	18,084.004 ppb	95.954 %
Concentration per Run 3	89.399 %	111.787 %	0.004 ppb	14,419.056 ppb	3,861.389 ppb	9.004 ppb	3,645.645 ppb	18,607.557 ppb	95.606 %
Concentration RSD	3.5 %	7.4 %	52.7 %	4.1 %	3.5 %	18.7 %	2.8 %	3.9 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.457 ppb	0.141 ppb	5.916 ppb	71.044 ppb	0.088 ppb	0.708 ppb	1.013 ppb	1.155 ppb	103.038 %
Concentration per Run 1	0.453 ppb	0.127 ppb	5.966 ppb	72.947 ppb	0.107 ppb	0.854 ppb	1.109 ppb	1.232 ppb	101.346 %
Concentration per Run 2	0.453 ppb	0.140 ppb	5.741 ppb	67.549 ppb	0.083 ppb	0.586 ppb	0.975 ppb	1.037 ppb	107.197 %
Concentration per Run 3	0.466 ppb	0.156 ppb	6.041 ppb	72.635 ppb	0.073 ppb	0.684 ppb	0.956 ppb	1.196 ppb	100.570 %
Concentration RSD	1.7 %	10.3 %	2.6 %	4.3 %	20.2 %	19.2 %	8.2 %	9.0 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.205 ppb	0.140 ppb	76.028 ppb	0.937 ppb	97.929 %	0.000 ppb	-0.001 ppb	103.069 %	0.703 ppb
Concentration per Run 1	0.213 ppb	0.128 ppb	76.736 ppb	0.881 ppb	95.577 %	-0.001 ppb	-0.002 ppb	101.727 %	0.660 ppb
Concentration per Run 2	0.041 ppb	0.219 ppb	73.856 ppb	0.930 ppb	99.976 %	0.001 ppb	0.000 ppb	104.286 %	0.720 ppb
Concentration per Run 3	0.361 ppb	0.072 ppb	77.494 ppb	0.999 ppb	98.232 %	0.001 ppb	-0.002 ppb	103.195 %	0.729 ppb
Concentration RSD	78.3 %	53.4 %	2.5 %	6.3 %	2.3 %	203.6 %	83.9 %	1.2 %	5.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	29.374 ppb	99.504 %	102.970 %	0.009 ppb	0.032 ppb	96.123 %
Concentration per Run 1	29.489 ppb	98.537 %	102.250 %	0.003 ppb	0.032 ppb	95.678 %
Concentration per Run 2	29.048 ppb	100.345 %	103.383 %	0.011 ppb	0.033 ppb	97.553 %
Concentration per Run 3	29.585 ppb	99.630 %	103.278 %	0.012 ppb	0.032 ppb	95.139 %
Concentration RSD	1.0 %	0.9 %	0.6 %	60.9 %	2.4 %	1.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	26	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370007-03d5 6020TL	Rack	1		
Analysis started at:	12/5/2023 8:27:52 AM	Vial	28		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.226 %	105.640 %	0.007 ppb	767.571 ppb	711.482 ppb	3.984 ppb	295.512 ppb	6,181.864 ppb	92.042 %
Concentration per Run 1	91.095 %	101.901 %	0.007 ppb	783.817 ppb	719.129 ppb	4.364 ppb	282.593 ppb	6,285.557 ppb	93.979 %
Concentration per Run 2	88.471 %	106.654 %	0.010 ppb	759.490 ppb	701.907 ppb	3.462 ppb	303.697 ppb	6,032.547 ppb	91.886 %
Concentration per Run 3	85.113 %	108.365 %	0.005 ppb	759.406 ppb	713.411 ppb	4.127 ppb	300.245 ppb	6,227.489 ppb	90.260 %
Concentration RSD	3.4 %	3.2 %	32.4 %	1.8 %	1.2 %	11.7 %	3.8 %	2.1 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.088 ppb	0.040 ppb	2,626.387 ppb	306.564 ppb	0.998 ppb	1.369 ppb	0.166 ppb	0.447 ppb	104.434 %
Concentration per Run 1	0.113 ppb	0.047 ppb	2,555.076 ppb	300.099 ppb	0.972 ppb	1.393 ppb	0.190 ppb	0.469 ppb	103.194 %
Concentration per Run 2	-0.005 ppb	0.055 ppb	2,576.335 ppb	296.474 ppb	0.970 ppb	1.391 ppb	0.100 ppb	0.399 ppb	105.192 %
Concentration per Run 3	0.156 ppb	0.017 ppb	2,747.750 ppb	323.119 ppb	1.052 ppb	1.323 ppb	0.208 ppb	0.473 ppb	104.916 %
Concentration RSD	94.6 %	50.7 %	4.0 %	4.7 %	4.7 %	2.9 %	34.9 %	9.4 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.448 ppb	0.047 ppb	22.693 ppb	0.304 ppb	98.618 %	0.001 ppb	0.001 ppb	103.273 %	0.508 ppb
Concentration per Run 1	0.463 ppb	0.021 ppb	22.274 ppb	0.231 ppb	96.441 %	0.002 ppb	0.002 ppb	102.589 %	0.430 ppb
Concentration per Run 2	0.467 ppb	0.061 ppb	22.094 ppb	0.367 ppb	98.216 %	0.000 ppb	-0.002 ppb	99.568 %	0.546 ppb
Concentration per Run 3	0.415 ppb	0.058 ppb	23.711 ppb	0.313 ppb	101.196 %	0.000 ppb	0.002 ppb	107.663 %	0.548 ppb
Concentration RSD	6.4 %	46.9 %	3.9 %	22.5 %	2.4 %	160.1 %	371.8 %	4.0 %	13.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	6.972 ppb	98.774 %	101.768 %	0.010 ppb	0.032 ppb	103.801 %
Concentration per Run 1	6.894 ppb	96.530 %	101.762 %	0.002 ppb	0.028 ppb	111.155 %
Concentration per Run 2	6.643 ppb	97.825 %	100.923 %	0.016 ppb	0.035 ppb	100.355 %
Concentration per Run 3	7.380 ppb	101.967 %	102.619 %	0.012 ppb	0.034 ppb	99.893 %
Concentration RSD	5.4 %	2.9 %	0.8 %	67.8 %	11.7 %	6.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 27
Analysis label: CCV
Analysis started at: 12/5/2023 8:32:29 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.084 %	101.141 %	62.132 ppb	6,294.143 ppb	6,422.309 ppb	64.581 ppb	6,277.976 ppb	6,207.268 ppb	102.042 %
Concentration per Run 1	86.322 %	96.958 %	62.044 ppb	5,944.603 ppb	6,639.107 ppb	66.373 ppb	6,512.965 ppb	6,499.511 ppb	102.120 %
Concentration per Run 2	85.850 %	104.183 %	62.099 ppb	6,577.807 ppb	6,369.661 ppb	61.445 ppb	5,923.071 ppb	5,999.696 ppb	103.123 %
Concentration per Run 3	83.080 %	102.281 %	62.253 ppb	6,360.019 ppb	6,258.159 ppb	65.924 ppb	6,397.891 ppb	6,122.596 ppb	100.882 %
Recovery Percentage 1			103.553 %	104.902 %	107.038 %	107.634 %	104.633 %	103.454 %	
Concentration RSD	2.1 %	3.7 %	0.2 %	5.1 %	3.0 %	4.2 %	5.0 %	4.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	60.836 ppb	60.378 ppb	61.046 ppb	6,083.677 ppb	61.960 ppb	62.884 ppb	61.750 ppb	61.033 ppb	104.672 %
Concentration per Run 1	63.530 ppb	60.929 ppb	64.337 ppb	6,203.971 ppb	64.086 ppb	64.312 ppb	64.261 ppb	61.559 ppb	100.937 %
Concentration per Run 2	59.020 ppb	59.352 ppb	59.162 ppb	6,034.619 ppb	59.586 ppb	61.635 ppb	60.508 ppb	59.544 ppb	107.446 %
Concentration per Run 3	59.956 ppb	60.854 ppb	59.640 ppb	6,012.441 ppb	62.206 ppb	62.706 ppb	60.482 ppb	61.995 ppb	105.633 %
Recovery Percentage 1	101.393 %	100.631 %	101.744 %	101.395 %	103.266 %	104.807 %	102.917 %	101.721 %	
Concentration RSD	3.9 %	1.5 %	4.7 %	1.7 %	3.6 %	2.1 %	3.5 %	2.1 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.477 ppb	56.486 ppb	58.040 ppb	59.809 ppb	98.884 %	59.880 ppb	59.929 ppb	100.843 %	60.500 ppb
Concentration per Run 1	61.126 ppb	59.014 ppb	58.742 ppb	56.969 ppb	97.024 %	60.742 ppb	60.636 ppb	98.279 %	62.970 ppb
Concentration per Run 2	59.779 ppb	53.604 ppb	57.367 ppb	60.110 ppb	99.183 %	59.179 ppb	59.644 ppb	101.710 %	58.751 ppb
Concentration per Run 3	60.527 ppb	56.839 ppb	58.011 ppb	62.348 ppb	100.445 %	59.718 ppb	59.506 ppb	102.539 %	59.780 ppb
Recovery Percentage 1	100.796 %	94.143 %	96.733 %	99.681 %		99.800 %	99.881 %		100.834 %
Concentration RSD	1.1 %	4.8 %	1.2 %	4.5 %	1.7 %	1.3 %	1.0 %	2.2 %	3.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.798 ppb	98.808 %	100.740 %	61.288 ppb	55.722 ppb	100.043 %
Concentration per Run 1	58.985 ppb	98.801 %	102.029 %	52.948 ppb	53.423 ppb	104.654 %
Concentration per Run 2	56.550 ppb	98.178 %	100.504 %	58.989 ppb	55.747 ppb	99.394 %
Concentration per Run 3	60.859 ppb	99.446 %	99.688 %	71.926 ppb	57.995 ppb	96.081 %
Recovery Percentage 1	97.997 %			102.146 %	92.870 %	
Concentration RSD	3.7 %	0.6 %	1.2 %	15.8 %	4.1 %	4.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	28	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 8:37:11 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.272 %	105.830 %	0.016 ppb	-0.789 ppb	-0.274 ppb	-0.396 ppb	3.281 ppb	-3.340 ppb	88.420 %
Concentration per Run 1	85.288 %	107.415 %	0.012 ppb	-0.185 ppb	-0.546 ppb	-0.819 ppb	-0.225 ppb	-8.127 ppb	89.176 %
Concentration per Run 2	85.645 %	101.141 %	0.013 ppb	3.561 ppb	0.159 ppb	-0.151 ppb	9.063 ppb	-1.853 ppb	88.683 %
Concentration per Run 3	81.883 %	108.936 %	0.022 ppb	-5.743 ppb	-0.437 ppb	-0.219 ppb	1.007 ppb	-0.041 ppb	87.401 %
Recovery Percentage 1			3.109 %	-0.789 %	-0.392 %	-3.962 %	3.281 %	-3.340 %	
Concentration RSD	2.5 %	3.9 %	36.1 %	593.5 %	138.3 %	92.7 %	153.7 %	127.0 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.038 ppb	0.003 ppb	0.048 ppb	13.342 ppb	-0.005 ppb	0.020 ppb	-0.009 ppb	0.075 ppb	99.661 %
Concentration per Run 1	-0.052 ppb	0.016 ppb	-0.038 ppb	14.269 ppb	-0.008 ppb	0.033 ppb	0.003 ppb	0.049 ppb	94.172 %
Concentration per Run 2	-0.039 ppb	-0.002 ppb	0.097 ppb	14.023 ppb	-0.005 ppb	0.037 ppb	-0.031 ppb	0.043 ppb	103.773 %
Concentration per Run 3	-0.025 ppb	-0.005 ppb	0.084 ppb	11.734 ppb	-0.003 ppb	-0.011 ppb	0.000 ppb	0.135 ppb	101.038 %
Recovery Percentage 1	-0.767 %	0.317 %	4.772 %	26.684 %	-1.074 %	0.990 %	-0.909 %	1.507 %	
Concentration RSD	35.0 %	357.5 %	155.4 %	10.5 %	51.8 %	133.9 %	205.8 %	68.5 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.099 ppb	0.381 ppb	-0.009 ppb	0.991 ppb	99.895 %	0.006 ppb	0.001 ppb	98.485 %	0.282 ppb
Concentration per Run 1	0.281 ppb	0.546 ppb	-0.008 ppb	1.070 ppb	98.326 %	0.008 ppb	0.004 ppb	95.605 %	0.271 ppb
Concentration per Run 2	0.014 ppb	0.262 ppb	-0.011 ppb	0.895 ppb	100.911 %	0.007 ppb	-0.002 ppb	100.122 %	0.271 ppb
Concentration per Run 3	0.003 ppb	0.334 ppb	-0.007 ppb	1.007 ppb	100.448 %	0.004 ppb	0.000 ppb	99.728 %	0.303 ppb
Recovery Percentage 1	19.822 %	7.610 %	-0.086 %	49.528 %		1.552 %	0.354 %		7.045 %
Concentration RSD	158.9 %	38.7 %	22.4 %	9.0 %	1.4 %	35.0 %	421.5 %	2.5 %	6.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.013 ppb	96.127 %	98.351 %	0.422 ppb	0.013 ppb	97.096 %
Concentration per Run 1	0.001 ppb	94.708 %	98.953 %	0.362 ppb	0.016 ppb	102.368 %
Concentration per Run 2	0.026 ppb	98.621 %	99.805 %	0.489 ppb	0.014 ppb	94.962 %
Concentration per Run 3	0.014 ppb	95.052 %	96.295 %	0.413 ppb	0.010 ppb	93.959 %
Recovery Percentage 1	2.671 %			42.151 %	1.338 %	
Concentration RSD	94.5 %	2.3 %	1.9 %	15.2 %	21.6 %	4.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 29
Analysis label: L2370021-01 2008SL
Analysis started at: 12/5/2023 8:43:21 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 9
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.634 %	95.754 %	0.033 ppb	223,544.928 ppb	8,560.183 ppb	92.231 ppb	3,087.918 ppb	23,479.140 ppb	91.336 %
Concentration per Run 1	85.561 %	94.487 %	0.024 ppb	216,679.200 ppb	8,141.699 ppb	88.003 ppb	2,969.983 ppb	22,896.266 ppb	93.376 %
Concentration per Run 2	84.293 %	105.323 %	0.039 ppb	214,207.432 ppb	8,218.461 ppb	92.230 ppb	3,097.122 ppb	23,573.718 ppb	90.324 %
Concentration per Run 3	81.046 %	87.452 %	0.038 ppb	239,748.152 ppb	9,320.387 ppb	96.461 ppb	3,196.647 ppb	23,967.436 ppb	90.307 %
Concentration RSD	2.8 %	9.4 %	24.5 %	6.3 %	7.7 %	4.6 %	3.7 %	2.3 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.198 ppb	0.267 ppb	2,450.279 ppb	71.961 ppb	2.528 ppb	14.037 ppb	4.371 ppb	9.050 ppb	101.689 %
Concentration per Run 1	0.182 ppb	0.258 ppb	2,509.469 ppb	69.908 ppb	2.495 ppb	14.081 ppb	4.368 ppb	8.777 ppb	100.665 %
Concentration per Run 2	0.221 ppb	0.224 ppb	2,492.993 ppb	71.473 ppb	2.412 ppb	14.009 ppb	4.263 ppb	8.991 ppb	105.214 %
Concentration per Run 3	0.192 ppb	0.320 ppb	2,348.374 ppb	74.502 ppb	2.678 ppb	14.021 ppb	4.482 ppb	9.383 ppb	99.188 %
Concentration RSD	10.3 %	18.1 %	3.6 %	3.2 %	5.4 %	0.3 %	2.5 %	3.4 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.533 ppb	0.606 ppb	263.072 ppb	2.775 ppb	91.869 %	0.006 ppb	0.343 ppb	95.703 %	0.319 ppb
Concentration per Run 1	0.502 ppb	0.645 ppb	254.736 ppb	2.678 ppb	90.344 %	0.007 ppb	0.333 ppb	94.600 %	0.263 ppb
Concentration per Run 2	0.575 ppb	0.518 ppb	272.628 ppb	2.797 ppb	93.612 %	0.007 ppb	0.343 ppb	100.190 %	0.343 ppb
Concentration per Run 3	0.522 ppb	0.654 ppb	261.851 ppb	2.849 ppb	91.652 %	0.004 ppb	0.353 ppb	92.320 %	0.351 ppb
Concentration RSD	7.1 %	12.5 %	3.4 %	3.2 %	1.8 %	25.8 %	3.0 %	4.2 %	15.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	87.352 ppb	98.928 %	103.179 %	0.118 ppb	0.079 ppb	92.758 %
Concentration per Run 1	85.223 ppb	95.082 %	101.169 %	0.082 ppb	0.076 ppb	96.130 %
Concentration per Run 2	87.716 ppb	104.410 %	106.904 %	0.137 ppb	0.078 ppb	92.540 %
Concentration per Run 3	89.118 ppb	97.293 %	101.463 %	0.137 ppb	0.084 ppb	89.604 %
Concentration RSD	2.3 %	4.9 %	3.1 %	26.6 %	5.3 %	3.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	30	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370027-01 2008SL	Rack	1		
Analysis started at:	12/5/2023 8:48:01 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.695 %	107.351 %	0.005 ppb	12,074.408 ppb	4,880.851 ppb	22.206 ppb	3,686.697 ppb	24,209.258 ppb	96.485 %
Concentration per Run 1	92.781 %	107.415 %	0.001 ppb	11,903.860 ppb	4,827.001 ppb	20.951 ppb	3,749.743 ppb	24,434.716 ppb	98.706 %
Concentration per Run 2	90.295 %	110.837 %	0.007 ppb	12,162.326 ppb	4,937.205 ppb	23.006 ppb	3,693.940 ppb	23,885.041 ppb	96.073 %
Concentration per Run 3	89.010 %	103.802 %	0.006 ppb	12,157.037 ppb	4,878.346 ppb	22.661 ppb	3,616.408 ppb	24,308.017 ppb	94.675 %
Concentration RSD	2.1 %	3.3 %	68.1 %	1.2 %	1.1 %	5.0 %	1.8 %	1.2 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.938 ppb	0.567 ppb	1.749 ppb	20.717 ppb	0.068 ppb	0.651 ppb	0.519 ppb	1.124 ppb	106.802 %
Concentration per Run 1	0.799 ppb	0.528 ppb	1.522 ppb	19.175 ppb	0.065 ppb	0.625 ppb	0.514 ppb	1.124 ppb	108.263 %
Concentration per Run 2	0.918 ppb	0.594 ppb	2.060 ppb	22.666 ppb	0.065 ppb	0.717 ppb	0.458 ppb	1.085 ppb	107.270 %
Concentration per Run 3	1.098 ppb	0.579 ppb	1.664 ppb	20.309 ppb	0.074 ppb	0.610 ppb	0.585 ppb	1.163 ppb	104.874 %
Concentration RSD	16.1 %	6.1 %	15.9 %	8.6 %	7.9 %	8.9 %	12.2 %	3.5 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.985 ppb	0.135 ppb	251.741 ppb	9.347 ppb	97.826 %	0.001 ppb	0.000 ppb	103.857 %	0.200 ppb
Concentration per Run 1	7.493 ppb	0.167 ppb	250.086 ppb	9.022 ppb	97.811 %	0.001 ppb	0.002 ppb	107.228 %	0.219 ppb
Concentration per Run 2	8.442 ppb	0.223 ppb	255.872 ppb	9.543 ppb	98.476 %	0.002 ppb	-0.002 ppb	103.229 %	0.189 ppb
Concentration per Run 3	8.021 ppb	0.016 ppb	249.266 ppb	9.476 ppb	97.191 %	0.001 ppb	0.000 ppb	101.114 %	0.191 ppb
Concentration RSD	6.0 %	79.0 %	1.4 %	3.0 %	0.7 %	18.9 %	5,158.1 %	3.0 %	8.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	5.771 ppb	101.352 %	104.773 %	0.049 ppb	0.020 ppb	96.448 %
Concentration per Run 1	5.775 ppb	103.795 %	105.988 %	0.027 ppb	0.019 ppb	99.247 %
Concentration per Run 2	5.410 ppb	101.659 %	106.992 %	0.062 ppb	0.018 ppb	96.628 %
Concentration per Run 3	6.128 ppb	98.603 %	101.338 %	0.057 ppb	0.022 ppb	93.469 %
Concentration RSD	6.2 %	2.6 %	2.9 %	39.2 %	10.7 %	3.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	31	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370027-02 2008SL	Rack	1		
Analysis started at:	12/5/2023 8:52:41 AM	Vial	11		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.918 %	108.935 %	0.122 ppb	21,442.020 ppb	10,452.572 ppb	380.460 ppb	3,184.307 ppb	35,856.540 ppb	96.385 %
Concentration per Run 1	91.082 %	106.274 %	0.126 ppb	22,428.043 ppb	10,725.802 ppb	377.509 ppb	3,223.230 ppb	36,511.923 ppb	97.734 %
Concentration per Run 2	89.001 %	108.935 %	0.117 ppb	20,859.337 ppb	10,396.060 ppb	390.648 ppb	3,191.260 ppb	35,405.733 ppb	95.734 %
Concentration per Run 3	86.672 %	111.597 %	0.124 ppb	21,038.680 ppb	10,235.854 ppb	373.223 ppb	3,138.432 ppb	35,651.966 ppb	95.688 %
Concentration RSD	2.5 %	2.4 %	3.9 %	4.0 %	2.4 %	2.4 %	1.3 %	1.6 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.325 ppb	0.316 ppb	1,262.231 ppb	239.845 ppb	11.496 ppb	21.673 ppb	2.716 ppb	8.483 ppb	104.637 %
Concentration per Run 1	0.290 ppb	0.282 ppb	1,236.575 ppb	234.095 ppb	11.136 ppb	21.025 ppb	2.601 ppb	8.850 ppb	108.513 %
Concentration per Run 2	0.252 ppb	0.313 ppb	1,257.986 ppb	243.124 ppb	11.766 ppb	21.828 ppb	2.764 ppb	8.093 ppb	105.420 %
Concentration per Run 3	0.433 ppb	0.352 ppb	1,292.132 ppb	242.317 ppb	11.587 ppb	22.167 ppb	2.783 ppb	8.505 ppb	99.976 %
Concentration RSD	29.3 %	11.2 %	2.2 %	2.1 %	2.8 %	2.7 %	3.7 %	4.5 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.168 ppb	0.497 ppb	409.340 ppb	0.536 ppb	96.803 %	0.012 ppb	0.060 ppb	102.719 %	0.182 ppb
Concentration per Run 1	2.257 ppb	0.305 ppb	421.183 ppb	0.565 ppb	97.488 %	0.010 ppb	0.055 ppb	103.883 %	0.159 ppb
Concentration per Run 2	1.967 ppb	0.580 ppb	401.177 ppb	0.465 ppb	95.866 %	0.013 ppb	0.066 ppb	101.927 %	0.194 ppb
Concentration per Run 3	2.280 ppb	0.605 ppb	405.660 ppb	0.578 ppb	97.053 %	0.013 ppb	0.060 ppb	102.346 %	0.192 ppb
Concentration RSD	8.0 %	33.5 %	2.6 %	11.5 %	0.9 %	12.9 %	8.7 %	1.0 %	10.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	19.740 ppb	100.618 %	105.643 %	0.085 ppb	0.468 ppb	95.062 %
Concentration per Run 1	20.503 ppb	102.395 %	109.752 %	0.069 ppb	0.466 ppb	96.978 %
Concentration per Run 2	19.796 ppb	101.342 %	104.135 %	0.087 ppb	0.468 ppb	94.045 %
Concentration per Run 3	18.921 ppb	98.116 %	103.044 %	0.098 ppb	0.469 ppb	94.162 %
Concentration RSD	4.0 %	2.2 %	3.4 %	17.6 %	0.4 %	1.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	32	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370027-03 2008SL	Rack	1		
Analysis started at:	12/5/2023 8:57:21 AM	Vial	12		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.079 %	109.696 %	0.020 ppb	4,906.631 ppb	11,286.035 ppb	9.235 ppb	6,250.583 ppb	28,255.613 ppb	91.677 %
Concentration per Run 1	88.740 %	108.365 %	0.017 ppb	4,832.167 ppb	11,493.464 ppb	9.461 ppb	6,475.331 ppb	29,360.934 ppb	92.082 %
Concentration per Run 2	87.751 %	109.696 %	0.020 ppb	5,299.032 ppb	11,251.203 ppb	8.204 ppb	5,995.216 ppb	27,006.767 ppb	92.470 %
Concentration per Run 3	84.744 %	111.027 %	0.022 ppb	4,588.694 ppb	11,113.438 ppb	10.039 ppb	6,281.201 ppb	28,399.138 ppb	90.479 %
Concentration RSD	2.4 %	1.2 %	13.2 %	7.4 %	1.7 %	10.2 %	3.9 %	4.2 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.002 ppb	0.023 ppb	6,380.751 ppb	99.163 ppb	0.864 ppb	1.144 ppb	0.914 ppb	1.803 ppb	107.434 %
Concentration per Run 1	0.012 ppb	0.018 ppb	6,424.188 ppb	93.414 ppb	0.848 ppb	1.171 ppb	0.887 ppb	1.835 ppb	110.243 %
Concentration per Run 2	0.000 ppb	0.026 ppb	6,304.856 ppb	106.805 ppb	0.829 ppb	1.104 ppb	0.918 ppb	1.736 ppb	106.710 %
Concentration per Run 3	-0.006 ppb	0.027 ppb	6,413.208 ppb	97.269 ppb	0.916 ppb	1.159 ppb	0.937 ppb	1.838 ppb	105.350 %
Concentration RSD	421.1 %	21.0 %	1.0 %	7.0 %	5.3 %	3.1 %	2.8 %	3.2 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.938 ppb	0.434 ppb	244.974 ppb	0.273 ppb	98.343 %	0.001 ppb	0.104 ppb	102.476 %	0.114 ppb
Concentration per Run 1	0.855 ppb	0.473 ppb	253.780 ppb	0.220 ppb	99.412 %	0.001 ppb	0.076 ppb	106.500 %	0.127 ppb
Concentration per Run 2	0.959 ppb	0.491 ppb	237.897 ppb	0.267 ppb	98.262 %	0.000 ppb	0.136 ppb	99.865 %	0.110 ppb
Concentration per Run 3	1.001 ppb	0.340 ppb	243.246 ppb	0.331 ppb	97.354 %	0.002 ppb	0.100 ppb	101.062 %	0.105 ppb
Concentration RSD	8.0 %	18.9 %	3.3 %	20.3 %	1.0 %	103.7 %	29.3 %	3.5 %	10.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	31.735 ppb	101.445 %	103.745 %	0.084 ppb	0.023 ppb	96.549 %
Concentration per Run 1	33.171 ppb	100.789 %	106.973 %	0.072 ppb	0.026 ppb	99.782 %
Concentration per Run 2	30.013 ppb	102.294 %	101.649 %	0.086 ppb	0.022 ppb	95.706 %
Concentration per Run 3	32.020 ppb	101.252 %	102.613 %	0.093 ppb	0.021 ppb	94.157 %
Concentration RSD	5.0 %	0.8 %	2.7 %	12.6 %	11.1 %	3.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	33	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370027-04 2008SL	Rack	1		
Analysis started at:	12/5/2023 9:02:02 AM	Vial	13		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.449 %	102.978 %	0.042 ppb	6,065.193 ppb	14,079.018 ppb	28.626 ppb	12,320.852 ppb	32,367.517 ppb	96.651 %
Concentration per Run 1	86.384 %	108.365 %	0.037 ppb	6,328.464 ppb	14,266.307 ppb	28.002 ppb	12,665.936 ppb	33,464.376 ppb	96.614 %
Concentration per Run 2	83.764 %	105.133 %	0.037 ppb	6,147.517 ppb	13,568.403 ppb	27.996 ppb	12,210.818 ppb	31,368.331 ppb	96.476 %
Concentration per Run 3	83.198 %	95.437 %	0.051 ppb	5,719.597 ppb	14,402.344 ppb	29.880 ppb	12,085.802 ppb	32,269.845 ppb	96.862 %
Concentration RSD	2.0 %	6.5 %	19.2 %	5.2 %	3.2 %	3.8 %	2.5 %	3.2 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.046 ppb	0.093 ppb	8,171.456 ppb	5,457.393 ppb	57.914 ppb	10.347 ppb	2.531 ppb	6.245 ppb	107.600 %
Concentration per Run 1	0.059 ppb	0.102 ppb	8,144.787 ppb	5,369.310 ppb	57.004 ppb	9.928 ppb	2.443 ppb	6.045 ppb	111.299 %
Concentration per Run 2	0.035 ppb	0.097 ppb	8,098.147 ppb	5,335.158 ppb	56.364 ppb	10.365 ppb	2.656 ppb	6.151 ppb	109.096 %
Concentration per Run 3	0.044 ppb	0.080 ppb	8,271.433 ppb	5,667.711 ppb	60.373 ppb	10.749 ppb	2.495 ppb	6.538 ppb	102.406 %
Concentration RSD	26.3 %	12.4 %	1.1 %	3.4 %	3.7 %	4.0 %	4.4 %	4.2 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.390 ppb	0.176 ppb	307.463 ppb	0.142 ppb	98.695 %	0.003 ppb	0.038 ppb	102.307 %	0.098 ppb
Concentration per Run 1	1.555 ppb	0.340 ppb	324.270 ppb	0.118 ppb	101.183 %	0.002 ppb	0.034 ppb	108.336 %	0.085 ppb
Concentration per Run 2	1.264 ppb	0.034 ppb	302.877 ppb	0.155 ppb	98.525 %	0.004 ppb	0.056 ppb	102.118 %	0.108 ppb
Concentration per Run 3	1.351 ppb	0.153 ppb	295.242 ppb	0.153 ppb	96.376 %	0.001 ppb	0.025 ppb	96.467 %	0.103 ppb
Concentration RSD	10.8 %	88.0 %	4.9 %	15.0 %	2.4 %	63.2 %	41.1 %	5.8 %	12.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	25.387 ppb	101.864 %	104.056 %	0.212 ppb	0.029 ppb	98.191 %
Concentration per Run 1	26.331 ppb	105.510 %	111.742 %	0.204 ppb	0.028 ppb	102.485 %
Concentration per Run 2	25.580 ppb	100.745 %	102.219 %	0.208 ppb	0.029 ppb	98.756 %
Concentration per Run 3	24.249 ppb	99.336 %	98.208 %	0.225 ppb	0.030 ppb	93.332 %
Concentration RSD	4.2 %	3.2 %	6.7 %	5.2 %	3.2 %	4.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	34	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370027-05 2008SL	Rack	1		
Analysis started at:	12/5/2023 9:06:38 AM	Vial	14		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.713 %	108.745 %	0.017 ppb	3,258.930 ppb	1,925.536 ppb	217.588 ppb	1,039.846 ppb	6,819.350 ppb	94.078 %
Concentration per Run 1	89.000 %	113.498 %	0.017 ppb	3,216.972 ppb	1,912.903 ppb	223.184 ppb	1,148.077 ppb	7,179.570 ppb	94.519 %
Concentration per Run 2	86.335 %	114.449 %	0.014 ppb	3,099.333 ppb	1,867.267 ppb	216.621 ppb	982.201 ppb	6,777.827 ppb	93.772 %
Concentration per Run 3	84.803 %	98.289 %	0.019 ppb	3,460.485 ppb	1,996.439 ppb	212.957 ppb	989.261 ppb	6,500.653 ppb	93.944 %
Concentration RSD	2.4 %	8.3 %	13.6 %	5.7 %	3.4 %	2.4 %	9.0 %	5.0 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.790 ppb	0.955 ppb	6.761 ppb	352.203 ppb	0.194 ppb	0.771 ppb	0.734 ppb	2.258 ppb	104.512 %
Concentration per Run 1	0.771 ppb	1.070 ppb	7.119 ppb	350.252 ppb	0.165 ppb	0.779 ppb	0.696 ppb	2.200 ppb	107.704 %
Concentration per Run 2	0.734 ppb	0.931 ppb	5.932 ppb	341.908 ppb	0.196 ppb	0.775 ppb	0.709 ppb	2.190 ppb	106.615 %
Concentration per Run 3	0.865 ppb	0.863 ppb	7.233 ppb	364.449 ppb	0.222 ppb	0.759 ppb	0.798 ppb	2.384 ppb	99.217 %
Concentration RSD	8.6 %	11.0 %	10.7 %	3.2 %	14.9 %	1.4 %	7.6 %	4.8 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.320 ppb	0.081 ppb	52.508 ppb	0.585 ppb	97.945 %	0.001 ppb	0.006 ppb	103.421 %	0.095 ppb
Concentration per Run 1	0.491 ppb	0.266 ppb	55.260 ppb	0.614 ppb	99.164 %	0.000 ppb	0.002 ppb	109.708 %	0.082 ppb
Concentration per Run 2	0.315 ppb	-0.050 ppb	51.316 ppb	0.535 ppb	99.483 %	0.000 ppb	0.002 ppb	102.632 %	0.098 ppb
Concentration per Run 3	0.155 ppb	0.027 ppb	50.947 ppb	0.605 ppb	95.188 %	0.001 ppb	0.014 ppb	97.924 %	0.105 ppb
Concentration RSD	52.4 %	203.4 %	4.6 %	7.5 %	2.4 %	96.9 %	120.1 %	5.7 %	12.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3.976 ppb	99.277 %	99.839 %	0.018 ppb	0.089 ppb	96.775 %
Concentration per Run 1	3.960 ppb	102.150 %	103.320 %	0.007 ppb	0.082 ppb	101.820 %
Concentration per Run 2	3.892 ppb	99.077 %	101.208 %	0.024 ppb	0.093 ppb	95.880 %
Concentration per Run 3	4.076 ppb	96.604 %	94.988 %	0.024 ppb	0.091 ppb	92.625 %
Concentration RSD	2.3 %	2.8 %	4.3 %	52.5 %	6.8 %	4.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	35	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370027-06 2008SL	Rack	1		
Analysis started at:	12/5/2023 9:11:15 AM	Vial	15		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.329 %	110.266 %	0.004 ppb	22,016.070 ppb	4,355.012 ppb	14.026 ppb	3,924.945 ppb	32,302.264 ppb	92.878 %
Concentration per Run 1	87.496 %	112.167 %	-0.003 ppb	22,709.326 ppb	4,494.916 ppb	16.453 ppb	4,155.619 ppb	33,189.411 ppb	94.865 %
Concentration per Run 2	85.322 %	110.076 %	0.010 ppb	22,212.011 ppb	4,338.681 ppb	12.891 ppb	3,859.034 ppb	32,301.607 ppb	91.442 %
Concentration per Run 3	83.170 %	108.555 %	0.006 ppb	21,126.873 ppb	4,231.439 ppb	12.733 ppb	3,760.182 ppb	31,415.774 ppb	92.327 %
Concentration RSD	2.5 %	1.6 %	166.9 %	3.7 %	3.0 %	15.0 %	5.2 %	2.7 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.567 ppb	0.286 ppb	2.630 ppb	16.736 ppb	0.046 ppb	1.457 ppb	0.560 ppb	2.123 ppb	105.178 %
Concentration per Run 1	0.563 ppb	0.287 ppb	2.714 ppb	15.734 ppb	0.057 ppb	1.413 ppb	0.507 ppb	2.122 ppb	109.728 %
Concentration per Run 2	0.540 ppb	0.319 ppb	2.254 ppb	16.313 ppb	0.036 ppb	1.501 ppb	0.559 ppb	2.189 ppb	104.450 %
Concentration per Run 3	0.598 ppb	0.252 ppb	2.921 ppb	18.160 ppb	0.045 ppb	1.457 ppb	0.613 ppb	2.060 ppb	101.357 %
Concentration RSD	5.2 %	11.7 %	13.0 %	7.6 %	23.2 %	3.0 %	9.5 %	3.0 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.112 ppb	0.443 ppb	424.583 ppb	7.212 ppb	98.087 %	0.000 ppb	0.002 ppb	100.098 %	0.191 ppb
Concentration per Run 1	4.010 ppb	0.656 ppb	451.047 ppb	7.023 ppb	98.639 %	-0.001 ppb	0.004 ppb	107.329 %	0.181 ppb
Concentration per Run 2	4.176 ppb	0.328 ppb	419.437 ppb	7.221 ppb	99.996 %	0.000 ppb	0.000 ppb	98.596 %	0.200 ppb
Concentration per Run 3	4.149 ppb	0.346 ppb	403.265 ppb	7.393 ppb	95.626 %	0.001 ppb	0.002 ppb	94.370 %	0.193 ppb
Concentration RSD	2.2 %	41.6 %	5.7 %	2.6 %	2.3 %	609.0 %	93.3 %	6.6 %	5.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	8.240 ppb	99.349 %	102.901 %	0.016 ppb	0.012 ppb	95.707 %
Concentration per Run 1	9.148 ppb	103.036 %	107.879 %	0.004 ppb	0.010 ppb	99.821 %
Concentration per Run 2	7.680 ppb	99.198 %	103.480 %	0.022 ppb	0.014 ppb	94.904 %
Concentration per Run 3	7.894 ppb	95.813 %	97.342 %	0.024 ppb	0.011 ppb	92.397 %
Concentration RSD	9.6 %	3.6 %	5.1 %	65.0 %	18.6 %	3.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	36	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370027-07 2008SL	Rack	1		
Analysis started at:	12/5/2023 9:15:53 AM	Vial	16		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.272 %	106.020 %	0.015 ppb	3,163.993 ppb	5,085.697 ppb	58.523 ppb	1,670.377 ppb	16,945.987 ppb	93.296 %
Concentration per Run 1	87.760 %	114.829 %	0.009 ppb	3,075.969 ppb	5,041.521 ppb	60.559 ppb	1,691.559 ppb	17,008.135 ppb	93.338 %
Concentration per Run 2	86.247 %	106.464 %	0.012 ppb	3,226.074 ppb	5,066.858 ppb	58.915 ppb	1,686.905 ppb	16,943.903 ppb	93.549 %
Concentration per Run 3	84.809 %	96.768 %	0.022 ppb	3,189.936 ppb	5,148.712 ppb	56.093 ppb	1,632.666 ppb	16,885.924 ppb	93.000 %
Concentration RSD	1.7 %	8.5 %	47.0 %	2.5 %	1.1 %	3.9 %	2.0 %	0.4 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.673 ppb	0.465 ppb	7.897 ppb	422.343 ppb	0.079 ppb	1.013 ppb	0.749 ppb	15.978 ppb	104.915 %
Concentration per Run 1	1.624 ppb	0.473 ppb	7.945 ppb	424.945 ppb	0.098 ppb	0.884 ppb	0.719 ppb	16.094 ppb	108.482 %
Concentration per Run 2	1.645 ppb	0.503 ppb	8.114 ppb	418.078 ppb	0.052 ppb	1.152 ppb	0.722 ppb	16.045 ppb	104.202 %
Concentration per Run 3	1.749 ppb	0.419 ppb	7.633 ppb	424.005 ppb	0.087 ppb	1.002 ppb	0.807 ppb	15.796 ppb	102.062 %
Concentration RSD	4.0 %	9.1 %	3.1 %	0.9 %	30.3 %	13.3 %	6.7 %	1.0 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.946 ppb	0.143 ppb	69.620 ppb	1.389 ppb	97.448 %	0.001 ppb	-0.001 ppb	102.229 %	0.195 ppb
Concentration per Run 1	0.995 ppb	-0.095 ppb	73.120 ppb	1.381 ppb	98.831 %	0.000 ppb	0.002 ppb	109.912 %	0.186 ppb
Concentration per Run 2	0.835 ppb	0.180 ppb	69.313 ppb	1.447 ppb	97.428 %	0.001 ppb	-0.002 ppb	101.865 %	0.184 ppb
Concentration per Run 3	1.007 ppb	0.343 ppb	66.427 ppb	1.340 ppb	96.086 %	0.001 ppb	-0.002 ppb	94.909 %	0.215 ppb
Concentration RSD	10.1 %	155.2 %	4.8 %	3.9 %	1.4 %	106.7 %	297.5 %	7.3 %	8.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.389 ppb	98.567 %	99.657 %	0.010 ppb	0.066 ppb	95.905 %
Concentration per Run 1	1.227 ppb	103.250 %	105.708 %	0.003 ppb	0.062 ppb	100.274 %
Concentration per Run 2	1.476 ppb	98.085 %	98.289 %	0.013 ppb	0.066 ppb	96.046 %
Concentration per Run 3	1.465 ppb	94.367 %	94.976 %	0.015 ppb	0.071 ppb	91.396 %
Concentration RSD	10.1 %	4.5 %	5.5 %	65.6 %	6.5 %	4.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	37	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370027-08 2008SL	Rack	1		
Analysis started at:	12/5/2023 9:20:30 AM	Vial	17		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.097 %	106.020 %	0.009 ppb	33,254.042 ppb	6,651.724 ppb	36.497 ppb	3,852.090 ppb	21,964.029 ppb	91.988 %
Concentration per Run 1	85.042 %	108.175 %	0.002 ppb	32,822.123 ppb	6,751.100 ppb	33.794 ppb	3,947.237 ppb	21,754.113 ppb	92.616 %
Concentration per Run 2	84.521 %	105.704 %	0.009 ppb	32,636.881 ppb	6,508.759 ppb	30.547 ppb	3,855.026 ppb	21,929.518 ppb	92.477 %
Concentration per Run 3	82.729 %	104.183 %	0.014 ppb	34,303.122 ppb	6,695.314 ppb	45.152 ppb	3,754.008 ppb	22,208.456 ppb	90.872 %
Concentration RSD	1.4 %	1.9 %	67.6 %	2.7 %	1.9 %	21.0 %	2.5 %	1.0 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.118 ppb	0.332 ppb	149.891 ppb	202.798 ppb	0.241 ppb	1.801 ppb	0.715 ppb	1.929 ppb	105.005 %
Concentration per Run 1	0.100 ppb	0.326 ppb	145.816 ppb	198.982 ppb	0.235 ppb	1.011 ppb	0.734 ppb	1.842 ppb	111.176 %
Concentration per Run 2	0.161 ppb	0.324 ppb	147.554 ppb	197.862 ppb	0.255 ppb	1.072 ppb	0.642 ppb	1.891 ppb	103.291 %
Concentration per Run 3	0.093 ppb	0.345 ppb	156.302 ppb	211.549 ppb	0.233 ppb	3.318 ppb	0.769 ppb	2.054 ppb	100.549 %
Concentration RSD	31.5 %	3.5 %	3.7 %	3.7 %	5.2 %	73.0 %	9.2 %	5.8 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.363 ppb	-0.023 ppb	131.524 ppb	0.622 ppb	97.628 %	0.000 ppb	0.004 ppb	101.998 %	0.103 ppb
Concentration per Run 1	0.312 ppb	-0.049 ppb	136.176 ppb	0.533 ppb	98.072 %	-0.001 ppb	0.004 ppb	104.204 %	0.096 ppb
Concentration per Run 2	0.468 ppb	-0.087 ppb	127.768 ppb	0.564 ppb	97.891 %	0.001 ppb	0.004 ppb	99.640 %	0.114 ppb
Concentration per Run 3	0.309 ppb	0.069 ppb	130.629 ppb	0.769 ppb	96.921 %	-0.001 ppb	0.006 ppb	102.151 %	0.100 ppb
Concentration RSD	25.1 %	359.4 %	3.3 %	20.6 %	0.6 %	337.0 %	25.0 %	2.2 %	9.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	12.334 ppb	99.150 %	101.468 %	0.008 ppb	0.040 ppb	95.079 %
Concentration per Run 1	12.168 ppb	101.613 %	105.053 %	0.000 ppb	0.040 ppb	99.350 %
Concentration per Run 2	11.811 ppb	99.152 %	99.348 %	0.007 ppb	0.040 ppb	93.529 %
Concentration per Run 3	13.022 ppb	96.685 %	100.003 %	0.016 ppb	0.040 ppb	92.357 %
Concentration RSD	5.0 %	2.5 %	3.1 %	107.7 %	0.3 %	3.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	38	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370027-09 2008SL	Rack	1		
Analysis started at:	12/5/2023 9:25:08 AM	Vial	18		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.909 %	110.963 %	0.009 ppb	12,005.834 ppb	2,183.973 ppb	19.849 ppb	2,345.982 ppb	9,144.304 ppb	92.021 %
Concentration per Run 1	87.418 %	112.738 %	0.012 ppb	11,676.604 ppb	2,143.968 ppb	18.602 ppb	2,177.827 ppb	8,999.294 ppb	91.519 %
Concentration per Run 2	85.609 %	107.795 %	0.011 ppb	12,031.556 ppb	2,161.810 ppb	19.582 ppb	2,379.169 ppb	8,986.479 ppb	91.737 %
Concentration per Run 3	84.700 %	112.358 %	0.005 ppb	12,309.343 ppb	2,246.141 ppb	21.363 ppb	2,480.949 ppb	9,447.140 ppb	92.807 %
Concentration RSD	1.6 %	2.5 %	43.1 %	2.6 %	2.5 %	7.1 %	6.6 %	2.9 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.061 ppb	0.307 ppb	32.807 ppb	182.212 ppb	0.113 ppb	0.941 ppb	0.659 ppb	2.137 ppb	106.522 %
Concentration per Run 1	0.024 ppb	0.355 ppb	33.267 ppb	191.464 ppb	0.133 ppb	0.994 ppb	0.658 ppb	2.230 ppb	100.612 %
Concentration per Run 2	0.064 ppb	0.244 ppb	31.849 ppb	171.038 ppb	0.111 ppb	1.014 ppb	0.694 ppb	2.092 ppb	106.383 %
Concentration per Run 3	0.096 ppb	0.321 ppb	33.305 ppb	184.133 ppb	0.096 ppb	0.817 ppb	0.627 ppb	2.088 ppb	112.572 %
Concentration RSD	58.4 %	18.6 %	2.5 %	5.7 %	16.5 %	11.5 %	5.1 %	3.8 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.303 ppb	-0.041 ppb	52.430 ppb	0.197 ppb	99.415 %	0.000 ppb	0.002 ppb	101.976 %	0.079 ppb
Concentration per Run 1	0.396 ppb	-0.103 ppb	52.172 ppb	0.146 ppb	96.414 %	0.000 ppb	0.002 ppb	98.826 %	0.066 ppb
Concentration per Run 2	0.139 ppb	0.023 ppb	50.828 ppb	0.219 ppb	99.181 %	0.000 ppb	0.002 ppb	99.980 %	0.074 ppb
Concentration per Run 3	0.373 ppb	-0.045 ppb	54.291 ppb	0.225 ppb	102.651 %	0.001 ppb	0.002 ppb	107.122 %	0.097 ppb
Concentration RSD	47.1 %	152.7 %	3.3 %	22.5 %	3.1 %	141.5 %	7.8 %	4.4 %	20.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	7.376 ppb	99.799 %	101.398 %	0.006 ppb	0.058 ppb	96.910 %
Concentration per Run 1	7.811 ppb	96.641 %	98.643 %	0.000 ppb	0.059 ppb	97.248 %
Concentration per Run 2	7.254 ppb	97.042 %	99.350 %	0.010 ppb	0.057 ppb	96.460 %
Concentration per Run 3	7.064 ppb	105.714 %	106.201 %	0.009 ppb	0.057 ppb	97.023 %
Concentration RSD	5.3 %	5.1 %	4.1 %	90.9 %	1.9 %	0.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	39	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 9:29:46 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.666 %	111.090 %	63.213 ppb	6,284.556 ppb	6,221.760 ppb	61.034 ppb	6,189.694 ppb	6,274.581 ppb	97.806 %
Concentration per Run 1	82.254 %	101.141 %	63.368 ppb	6,613.676 ppb	6,547.053 ppb	61.122 ppb	6,392.896 ppb	6,191.135 ppb	97.581 %
Concentration per Run 2	80.457 %	112.928 %	63.542 ppb	6,003.424 ppb	6,000.210 ppb	59.736 ppb	5,913.284 ppb	6,198.687 ppb	96.647 %
Concentration per Run 3	79.288 %	119.202 %	62.730 ppb	6,236.568 ppb	6,118.016 ppb	62.244 ppb	6,262.901 ppb	6,433.921 ppb	99.191 %
Recovery Percentage 1			105.355 %	104.743 %	103.696 %	101.723 %	103.162 %	104.576 %	
Concentration RSD	1.9 %	8.3 %	0.7 %	4.9 %	4.6 %	2.1 %	4.0 %	2.2 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.941 ppb	59.600 ppb	61.183 ppb	6,164.060 ppb	61.555 ppb	61.355 ppb	60.660 ppb	60.664 ppb	105.153 %
Concentration per Run 1	61.957 ppb	60.942 ppb	62.744 ppb	6,301.709 ppb	64.006 ppb	63.377 ppb	63.795 ppb	62.845 ppb	100.923 %
Concentration per Run 2	59.423 ppb	58.680 ppb	59.588 ppb	5,991.070 ppb	61.250 ppb	61.115 ppb	59.447 ppb	59.136 ppb	105.185 %
Concentration per Run 3	58.444 ppb	59.179 ppb	61.216 ppb	6,199.402 ppb	59.411 ppb	59.574 ppb	58.737 ppb	60.009 ppb	109.352 %
Recovery Percentage 1	99.902 %	99.333 %	101.971 %	102.734 %	102.592 %	102.258 %	101.100 %	101.106 %	
Concentration RSD	3.0 %	2.0 %	2.6 %	2.6 %	3.8 %	3.1 %	4.5 %	3.2 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.242 ppb	58.554 ppb	59.504 ppb	59.579 ppb	98.752 %	60.642 ppb	60.926 ppb	98.655 %	61.501 ppb
Concentration per Run 1	60.603 ppb	59.602 ppb	59.089 ppb	58.456 ppb	96.085 %	61.532 ppb	60.730 ppb	95.052 %	62.134 ppb
Concentration per Run 2	60.300 ppb	56.462 ppb	57.695 ppb	60.190 ppb	99.200 %	59.919 ppb	60.793 ppb	98.116 %	61.459 ppb
Concentration per Run 3	62.825 ppb	59.598 ppb	61.730 ppb	60.091 ppb	100.970 %	60.474 ppb	61.255 ppb	102.796 %	60.909 ppb
Recovery Percentage 1	102.071 %	97.590 %	99.174 %	99.298 %		101.069 %	101.543 %		102.501 %
Concentration RSD	2.3 %	3.1 %	3.4 %	1.6 %	2.5 %	1.4 %	0.5 %	4.0 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.130 ppb	97.383 %	99.541 %	57.664 ppb	54.654 ppb	100.295 %
Concentration per Run 1	64.121 ppb	95.579 %	97.052 %	53.371 ppb	51.881 ppb	104.871 %
Concentration per Run 2	59.083 ppb	97.292 %	97.308 %	59.477 ppb	55.743 ppb	97.663 %
Concentration per Run 3	60.185 ppb	99.277 %	104.264 %	60.144 ppb	56.336 ppb	98.351 %
Recovery Percentage 1	101.883 %			96.107 %	91.089 %	
Concentration RSD	4.3 %	1.9 %	4.1 %	6.5 %	4.4 %	4.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	40	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 9:34:28 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.162 %	107.034 %	0.016 ppb	3.068 ppb	0.030 ppb	-0.300 ppb	-3.712 ppb	-0.812 ppb	84.704 %
Concentration per Run 1	82.820 %	101.521 %	0.013 ppb	10.056 ppb	0.712 ppb	-0.350 ppb	0.934 ppb	-4.099 ppb	85.712 %
Concentration per Run 2	80.113 %	108.365 %	0.010 ppb	-0.389 ppb	-0.301 ppb	-0.262 ppb	-10.484 ppb	2.130 ppb	84.853 %
Concentration per Run 3	77.554 %	111.217 %	0.024 ppb	-0.463 ppb	-0.321 ppb	-0.288 ppb	-1.587 ppb	-0.467 ppb	83.547 %
Recovery Percentage 1			3.206 %	3.068 %	0.043 %	-3.001 %	-3.712 %	-0.812 %	
Concentration RSD	3.3 %	4.7 %	46.1 %	197.3 %	1,984.3 %	15.1 %	161.6 %	385.3 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.005 ppb	0.029 ppb	-0.046 ppb	13.913 ppb	0.000 ppb	-0.017 ppb	-0.027 ppb	0.095 ppb	101.395 %
Concentration per Run 1	0.027 ppb	0.078 ppb	-0.080 ppb	13.071 ppb	0.001 ppb	-0.006 ppb	-0.034 ppb	0.065 ppb	102.490 %
Concentration per Run 2	-0.032 ppb	0.022 ppb	0.021 ppb	13.758 ppb	-0.002 ppb	-0.025 ppb	-0.027 ppb	0.093 ppb	100.982 %
Concentration per Run 3	-0.011 ppb	-0.013 ppb	-0.080 ppb	14.908 ppb	0.001 ppb	-0.020 ppb	-0.020 ppb	0.127 ppb	100.713 %
Recovery Percentage 1	-0.104 %	2.879 %	-4.643 %	27.825 %	0.026 %	-0.854 %	-2.699 %	1.899 %	
Concentration RSD	575.6 %	158.8 %	125.8 %	6.7 %	1,209.7 %	59.2 %	25.1 %	32.8 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.016 ppb	0.243 ppb	0.005 ppb	0.935 ppb	99.431 %	0.006 ppb	-0.002 ppb	98.479 %	0.083 ppb
Concentration per Run 1	0.002 ppb	0.071 ppb	0.001 ppb	1.024 ppb	99.846 %	0.010 ppb	-0.002 ppb	99.504 %	0.069 ppb
Concentration per Run 2	0.077 ppb	0.386 ppb	-0.002 ppb	0.996 ppb	98.528 %	0.002 ppb	-0.002 ppb	98.168 %	0.087 ppb
Concentration per Run 3	-0.030 ppb	0.272 ppb	0.016 ppb	0.785 ppb	99.920 %	0.006 ppb	-0.002 ppb	97.764 %	0.092 ppb
Recovery Percentage 1	3.218 %	4.865 %	0.048 %	46.757 %		1.511 %	-0.933 %		2.063 %
Concentration RSD	341.6 %	65.5 %	206.3 %	13.9 %	0.8 %	63.0 %	0.0 %	0.9 %	14.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	94.957 %	96.233 %	0.418 ppb	0.014 ppb	96.725 %
Concentration per Run 1	0.014 ppb	94.921 %	96.576 %	0.358 ppb	0.016 ppb	100.497 %
Concentration per Run 2	0.000 ppb	94.316 %	97.198 %	0.473 ppb	0.015 ppb	94.881 %
Concentration per Run 3	-0.013 ppb	95.636 %	94.925 %	0.423 ppb	0.010 ppb	94.798 %
Recovery Percentage 1	0.082 %			41.818 %	1.391 %	
Concentration RSD	3,224.2 %	0.7 %	1.2 %	13.8 %	21.6 %	3.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	41	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370027-10 2008SL	Rack	1		
Analysis started at:	12/5/2023 9:39:18 AM	Vial	19		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.106 %	102.662 %	0.014 ppb	3,494.003 ppb	1,558.447 ppb	36.886 ppb	2,317.202 ppb	4,364.189 ppb	90.187 %
Concentration per Run 1	85.762 %	104.183 %	0.015 ppb	3,461.201 ppb	1,565.668 ppb	38.539 ppb	2,307.220 ppb	4,410.525 ppb	90.789 %
Concentration per Run 2	84.100 %	99.620 %	0.009 ppb	3,504.573 ppb	1,588.152 ppb	37.291 ppb	2,343.016 ppb	4,401.769 ppb	90.255 %
Concentration per Run 3	82.457 %	104.183 %	0.018 ppb	3,516.234 ppb	1,521.519 ppb	34.829 ppb	2,301.368 ppb	4,280.272 ppb	89.517 %
Concentration RSD	2.0 %	2.6 %	34.3 %	0.8 %	2.2 %	5.1 %	1.0 %	1.7 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.135 ppb	0.413 ppb	81.732 ppb	986.464 ppb	0.201 ppb	0.471 ppb	0.699 ppb	1.682 ppb	102.699 %
Concentration per Run 1	0.133 ppb	0.416 ppb	79.057 ppb	961.066 ppb	0.217 ppb	0.497 ppb	0.664 ppb	1.721 ppb	103.703 %
Concentration per Run 2	0.144 ppb	0.416 ppb	80.165 ppb	1,001.564 ppb	0.185 ppb	0.513 ppb	0.734 ppb	1.615 ppb	103.372 %
Concentration per Run 3	0.129 ppb	0.405 ppb	85.975 ppb	996.761 ppb	0.199 ppb	0.402 ppb	0.701 ppb	1.710 ppb	101.022 %
Concentration RSD	5.6 %	1.6 %	4.5 %	2.2 %	7.9 %	12.7 %	5.0 %	3.5 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.361 ppb	0.015 ppb	27.439 ppb	0.319 ppb	98.916 %	0.002 ppb	0.002 ppb	100.221 %	0.061 ppb
Concentration per Run 1	0.361 ppb	-0.032 ppb	27.404 ppb	0.264 ppb	97.191 %	0.002 ppb	0.000 ppb	99.182 %	0.054 ppb
Concentration per Run 2	0.276 ppb	0.113 ppb	27.240 ppb	0.327 ppb	99.568 %	0.003 ppb	0.006 ppb	98.411 %	0.053 ppb
Concentration per Run 3	0.447 ppb	-0.037 ppb	27.673 ppb	0.366 ppb	99.988 %	0.001 ppb	0.000 ppb	103.069 %	0.075 ppb
Concentration RSD	23.7 %	572.8 %	0.8 %	16.2 %	1.5 %	55.4 %	172.5 %	2.5 %	20.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	6.090 ppb	99.411 %	98.296 %	0.120 ppb	0.080 ppb	94.731 %
Concentration per Run 1	5.882 ppb	100.167 %	98.053 %	0.082 ppb	0.077 ppb	95.442 %
Concentration per Run 2	6.452 ppb	98.852 %	98.849 %	0.142 ppb	0.083 ppb	93.471 %
Concentration per Run 3	5.936 ppb	99.215 %	97.987 %	0.135 ppb	0.079 ppb	95.281 %
Concentration RSD	5.2 %	0.7 %	0.5 %	27.4 %	4.0 %	1.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	42	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370027-11 2008SL	Rack	1		
Analysis started at:	12/5/2023 9:43:56 AM	Vial	20		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.227 %	102.725 %	0.009 ppb	31,836.039 ppb	5,783.935 ppb	13.547 ppb	4,364.453 ppb	19,131.288 ppb	89.281 %
Concentration per Run 1	83.169 %	100.951 %	-0.001 ppb	32,873.721 ppb	5,932.441 ppb	14.425 ppb	4,470.586 ppb	19,353.314 ppb	89.452 %
Concentration per Run 2	80.483 %	106.274 %	0.014 ppb	30,047.979 ppb	5,566.919 ppb	14.317 ppb	4,218.718 ppb	18,515.919 ppb	88.784 %
Concentration per Run 3	80.028 %	100.951 %	0.014 ppb	32,586.418 ppb	5,852.445 ppb	11.898 ppb	4,404.054 ppb	19,524.632 ppb	89.606 %
Concentration RSD	2.1 %	3.0 %	96.4 %	4.9 %	3.3 %	10.5 %	3.0 %	2.8 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.068 ppb	0.244 ppb	118.485 ppb	150.321 ppb	0.141 ppb	0.994 ppb	0.747 ppb	1.567 ppb	104.295 %
Concentration per Run 1	0.070 ppb	0.213 ppb	118.364 ppb	144.854 ppb	0.148 ppb	0.896 ppb	0.802 ppb	1.485 ppb	103.971 %
Concentration per Run 2	0.017 ppb	0.280 ppb	120.248 ppb	157.357 ppb	0.143 ppb	1.016 ppb	0.656 ppb	1.563 ppb	103.592 %
Concentration per Run 3	0.118 ppb	0.239 ppb	116.842 ppb	148.751 ppb	0.133 ppb	1.070 ppb	0.782 ppb	1.652 ppb	105.320 %
Concentration RSD	73.7 %	13.7 %	1.4 %	4.3 %	5.5 %	9.0 %	10.6 %	5.3 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.273 ppb	0.031 ppb	113.515 ppb	0.361 ppb	97.024 %	0.000 ppb	0.009 ppb	98.396 %	0.085 ppb
Concentration per Run 1	0.453 ppb	0.063 ppb	112.090 ppb	0.330 ppb	96.585 %	-0.001 ppb	0.004 ppb	97.871 %	0.090 ppb
Concentration per Run 2	0.248 ppb	-0.146 ppb	115.069 ppb	0.330 ppb	96.838 %	0.000 ppb	0.021 ppb	99.790 %	0.078 ppb
Concentration per Run 3	0.118 ppb	0.177 ppb	113.387 ppb	0.424 ppb	97.649 %	0.000 ppb	0.002 ppb	97.527 %	0.086 ppb
Concentration RSD	61.7 %	523.5 %	1.3 %	15.1 %	0.6 %	97.6 %	116.6 %	1.2 %	7.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	11.771 ppb	98.202 %	99.440 %	0.061 ppb	0.028 ppb	94.437 %
Concentration per Run 1	12.433 ppb	95.113 %	97.206 %	0.036 ppb	0.027 ppb	96.053 %
Concentration per Run 2	11.444 ppb	100.230 %	102.911 %	0.072 ppb	0.026 ppb	93.980 %
Concentration per Run 3	11.436 ppb	99.264 %	98.205 %	0.074 ppb	0.030 ppb	93.277 %
Concentration RSD	4.9 %	2.8 %	3.1 %	35.4 %	8.1 %	1.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	43	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370027-12 2008SL	Rack	1		
Analysis started at:	12/5/2023 9:48:34 AM	Vial	21		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.407 %	105.006 %	0.004 ppb	31,276.695 ppb	5,714.577 ppb	39.146 ppb	4,226.373 ppb	18,582.634 ppb	89.871 %
Concentration per Run 1	83.321 %	104.373 %	0.010 ppb	31,741.628 ppb	5,854.844 ppb	41.387 ppb	4,141.361 ppb	18,507.749 ppb	90.044 %
Concentration per Run 2	82.826 %	103.232 %	0.004 ppb	31,959.650 ppb	5,709.383 ppb	36.803 ppb	4,290.293 ppb	18,664.488 ppb	89.554 %
Concentration per Run 3	81.073 %	107.415 %	-0.003 ppb	30,128.806 ppb	5,579.503 ppb	39.246 ppb	4,247.466 ppb	18,575.664 ppb	90.013 %
Concentration RSD	1.4 %	2.1 %	169.6 %	3.2 %	2.4 %	5.9 %	1.8 %	0.4 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.133 ppb	0.384 ppb	119.166 ppb	365.378 ppb	0.149 ppb	0.984 ppb	0.742 ppb	1.529 ppb	103.335 %
Concentration per Run 1	0.136 ppb	0.334 ppb	118.458 ppb	358.298 ppb	0.146 ppb	0.983 ppb	0.805 ppb	1.542 ppb	101.089 %
Concentration per Run 2	0.150 ppb	0.418 ppb	123.831 ppb	383.554 ppb	0.174 ppb	1.057 ppb	0.666 ppb	1.533 ppb	102.435 %
Concentration per Run 3	0.113 ppb	0.400 ppb	115.211 ppb	354.281 ppb	0.126 ppb	0.912 ppb	0.755 ppb	1.513 ppb	106.480 %
Concentration RSD	14.1 %	11.6 %	3.7 %	4.3 %	16.3 %	7.4 %	9.5 %	0.9 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.349 ppb	-0.089 ppb	114.101 ppb	0.835 ppb	96.532 %	0.002 ppb	-0.001 ppb	97.738 %	0.073 ppb
Concentration per Run 1	0.479 ppb	-0.046 ppb	114.705 ppb	0.656 ppb	95.746 %	0.001 ppb	0.000 ppb	96.677 %	0.081 ppb
Concentration per Run 2	0.364 ppb	-0.127 ppb	114.582 ppb	0.922 ppb	96.243 %	0.002 ppb	0.000 ppb	95.637 %	0.070 ppb
Concentration per Run 3	0.203 ppb	-0.095 ppb	113.016 ppb	0.927 ppb	97.606 %	0.003 ppb	-0.002 ppb	100.900 %	0.067 ppb
Concentration RSD	39.8 %	45.9 %	0.8 %	18.5 %	1.0 %	39.6 %	200.7 %	2.9 %	9.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	12.449 ppb	98.241 %	100.065 %	0.036 ppb	0.064 ppb	93.272 %
Concentration per Run 1	12.800 ppb	98.998 %	97.863 %	0.018 ppb	0.064 ppb	95.150 %
Concentration per Run 2	11.526 ppb	98.955 %	102.369 %	0.048 ppb	0.067 ppb	92.522 %
Concentration per Run 3	13.021 ppb	96.769 %	99.962 %	0.042 ppb	0.061 ppb	92.144 %
Concentration RSD	6.5 %	1.3 %	2.3 %	44.2 %	4.1 %	1.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	44	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370175-01 2008SL	Rack	1		
Analysis started at:	12/5/2023 9:53:13 AM	Vial	22		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.921 %	107.858 %	0.012 ppb	14,050.334 ppb	3,843.871 ppb	10.158 ppb	3,648.712 ppb	17,944.032 ppb	89.723 %
Concentration per Run 1	84.823 %	105.323 %	0.009 ppb	14,624.551 ppb	3,866.609 ppb	10.306 ppb	3,708.201 ppb	18,088.521 ppb	90.230 %
Concentration per Run 2	82.384 %	107.224 %	0.014 ppb	13,654.239 ppb	3,709.982 ppb	9.986 ppb	3,465.695 ppb	17,385.729 ppb	89.987 %
Concentration per Run 3	81.555 %	111.027 %	0.012 ppb	13,872.213 ppb	3,955.023 ppb	10.181 ppb	3,772.241 ppb	18,357.845 ppb	88.951 %
Concentration RSD	2.0 %	2.7 %	21.1 %	3.6 %	3.2 %	1.6 %	4.4 %	2.8 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.402 ppb	0.126 ppb	7.928 ppb	69.086 ppb	0.097 ppb	0.716 ppb	0.844 ppb	0.997 ppb	104.731 %
Concentration per Run 1	0.413 ppb	0.176 ppb	7.747 ppb	69.144 ppb	0.098 ppb	0.722 ppb	0.755 ppb	0.969 ppb	104.759 %
Concentration per Run 2	0.346 ppb	0.087 ppb	7.542 ppb	69.254 ppb	0.100 ppb	0.674 ppb	0.921 ppb	1.015 ppb	102.713 %
Concentration per Run 3	0.447 ppb	0.115 ppb	8.494 ppb	68.861 ppb	0.093 ppb	0.752 ppb	0.856 ppb	1.006 ppb	106.722 %
Concentration RSD	12.8 %	35.9 %	6.3 %	0.3 %	3.7 %	5.5 %	9.9 %	2.4 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.203 ppb	-0.003 ppb	73.019 ppb	0.540 ppb	97.795 %	0.001 ppb	0.003 ppb	97.518 %	0.092 ppb
Concentration per Run 1	0.262 ppb	0.016 ppb	73.097 ppb	0.509 ppb	98.213 %	0.002 ppb	0.004 ppb	94.841 %	0.094 ppb
Concentration per Run 2	0.219 ppb	0.016 ppb	72.420 ppb	0.477 ppb	93.738 %	0.001 ppb	0.004 ppb	94.394 %	0.103 ppb
Concentration per Run 3	0.129 ppb	-0.041 ppb	73.539 ppb	0.634 ppb	101.433 %	0.000 ppb	0.002 ppb	103.320 %	0.079 ppb
Concentration RSD	33.4 %	1,147.8 %	0.8 %	15.4 %	4.0 %	122.4 %	39.7 %	5.2 %	12.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	29.946 ppb	97.289 %	98.579 %	0.034 ppb	0.028 ppb	93.559 %
Concentration per Run 1	30.633 ppb	98.456 %	99.461 %	0.018 ppb	0.028 ppb	95.143 %
Concentration per Run 2	28.684 ppb	96.015 %	95.813 %	0.041 ppb	0.028 ppb	92.294 %
Concentration per Run 3	30.523 ppb	97.396 %	100.461 %	0.042 ppb	0.029 ppb	93.239 %
Concentration RSD	3.7 %	1.3 %	2.5 %	40.9 %	1.4 %	1.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	45	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370175-02 2008SL	Rack	1		
Analysis started at:	12/5/2023 9:57:52 AM	Vial	23		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.395 %	106.210 %	0.019 ppb	14,665.192 ppb	3,992.912 ppb	16.747 ppb	3,741.136 ppb	18,850.628 ppb	89.320 %
Concentration per Run 1	85.219 %	103.042 %	0.015 ppb	15,508.645 ppb	4,185.931 ppb	17.465 ppb	3,679.554 ppb	19,525.043 ppb	90.113 %
Concentration per Run 2	83.570 %	104.943 %	0.026 ppb	14,195.257 ppb	3,938.146 ppb	16.224 ppb	3,816.346 ppb	18,415.823 ppb	89.272 %
Concentration per Run 3	81.396 %	110.647 %	0.015 ppb	14,291.674 ppb	3,854.661 ppb	16.551 ppb	3,727.508 ppb	18,611.020 ppb	88.574 %
Concentration RSD	2.3 %	3.7 %	33.0 %	5.0 %	4.3 %	3.8 %	1.9 %	3.1 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.406 ppb	0.179 ppb	14.907 ppb	97.229 ppb	0.192 ppb	0.753 ppb	1.139 ppb	1.269 ppb	104.198 %
Concentration per Run 1	0.413 ppb	0.156 ppb	14.438 ppb	100.208 ppb	0.195 ppb	0.788 ppb	1.236 ppb	1.321 ppb	105.974 %
Concentration per Run 2	0.379 ppb	0.184 ppb	14.869 ppb	97.378 ppb	0.201 ppb	0.786 ppb	1.200 ppb	1.275 ppb	99.961 %
Concentration per Run 3	0.427 ppb	0.196 ppb	15.415 ppb	94.102 ppb	0.179 ppb	0.684 ppb	0.982 ppb	1.210 ppb	106.660 %
Concentration RSD	6.1 %	11.4 %	3.3 %	3.1 %	6.0 %	7.9 %	12.1 %	4.4 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.292 ppb	0.059 ppb	74.767 ppb	0.427 ppb	97.878 %	0.000 ppb	0.011 ppb	96.199 %	0.088 ppb
Concentration per Run 1	0.280 ppb	0.009 ppb	75.299 ppb	0.361 ppb	96.940 %	0.000 ppb	0.012 ppb	98.781 %	0.085 ppb
Concentration per Run 2	0.338 ppb	0.009 ppb	72.738 ppb	0.491 ppb	98.033 %	-0.001 ppb	0.014 ppb	90.324 %	0.084 ppb
Concentration per Run 3	0.257 ppb	0.161 ppb	76.263 ppb	0.428 ppb	98.661 %	-0.001 ppb	0.008 ppb	99.492 %	0.097 ppb
Concentration RSD	14.2 %	147.9 %	2.4 %	15.2 %	0.9 %	199.4 %	30.2 %	5.3 %	8.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	30.996 ppb	97.577 %	97.563 %	0.022 ppb	0.032 ppb	94.230 %
Concentration per Run 1	31.400 ppb	98.780 %	100.351 %	0.008 ppb	0.031 ppb	97.489 %
Concentration per Run 2	31.342 ppb	96.226 %	92.736 %	0.029 ppb	0.031 ppb	91.634 %
Concentration per Run 3	30.245 ppb	97.724 %	99.601 %	0.028 ppb	0.032 ppb	93.567 %
Concentration RSD	2.1 %	1.3 %	4.3 %	52.7 %	1.6 %	3.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	46	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370175-03 2008SL	Rack	1		
Analysis started at:	12/5/2023 10:02:32 AM	Vial	24		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.930 %	105.703 %	0.014 ppb	14,769.300 ppb	3,998.495 ppb	12.240 ppb	3,722.827 ppb	18,154.896 ppb	90.156 %
Concentration per Run 1	85.174 %	107.605 %	0.013 ppb	14,647.309 ppb	4,050.157 ppb	11.123 ppb	3,854.669 ppb	18,304.133 ppb	91.548 %
Concentration per Run 2	84.732 %	103.232 %	0.012 ppb	14,731.363 ppb	3,929.672 ppb	11.977 ppb	3,395.313 ppb	17,329.729 ppb	90.292 %
Concentration per Run 3	81.883 %	106.274 %	0.018 ppb	14,929.228 ppb	4,015.657 ppb	13.621 ppb	3,918.499 ppb	18,830.826 ppb	88.628 %
Concentration RSD	2.1 %	2.1 %	24.4 %	1.0 %	1.6 %	10.4 %	7.7 %	4.2 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.400 ppb	0.248 ppb	14.905 ppb	114.116 ppb	0.197 ppb	1.581 ppb	1.613 ppb	2.833 ppb	103.292 %
Concentration per Run 1	0.476 ppb	0.218 ppb	14.878 ppb	115.557 ppb	0.179 ppb	1.553 ppb	1.647 ppb	2.821 ppb	103.909 %
Concentration per Run 2	0.336 ppb	0.273 ppb	14.426 ppb	112.371 ppb	0.201 ppb	1.586 ppb	1.527 ppb	2.747 ppb	103.158 %
Concentration per Run 3	0.390 ppb	0.253 ppb	15.411 ppb	114.420 ppb	0.211 ppb	1.604 ppb	1.666 ppb	2.933 ppb	102.809 %
Concentration RSD	17.7 %	11.3 %	3.3 %	1.4 %	8.4 %	1.6 %	4.7 %	3.3 %	0.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.208 ppb	0.139 ppb	74.102 ppb	0.485 ppb	97.291 %	0.000 ppb	0.007 ppb	97.341 %	0.077 ppb
Concentration per Run 1	0.165 ppb	0.285 ppb	73.886 ppb	0.416 ppb	98.229 %	0.001 ppb	0.002 ppb	98.372 %	0.062 ppb
Concentration per Run 2	0.278 ppb	0.168 ppb	72.308 ppb	0.525 ppb	94.851 %	0.000 ppb	0.016 ppb	93.653 %	0.084 ppb
Concentration per Run 3	0.181 ppb	-0.035 ppb	76.111 ppb	0.514 ppb	98.793 %	-0.001 ppb	0.004 ppb	99.998 %	0.084 ppb
Concentration RSD	29.6 %	116.0 %	2.6 %	12.4 %	2.2 %	484.1 %	105.6 %	3.4 %	16.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	30.011 ppb	96.652 %	98.302 %	0.015 ppb	0.035 ppb	93.366 %
Concentration per Run 1	30.514 ppb	97.944 %	97.713 %	0.006 ppb	0.033 ppb	95.450 %
Concentration per Run 2	30.446 ppb	94.084 %	96.190 %	0.018 ppb	0.035 ppb	91.028 %
Concentration per Run 3	29.072 ppb	97.927 %	101.004 %	0.023 ppb	0.036 ppb	93.621 %
Concentration RSD	2.7 %	2.3 %	2.5 %	58.5 %	4.6 %	2.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	47	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370175-04 2008SL	Rack	1		
Analysis started at:	12/5/2023 10:07:12 AM	Vial	25		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.135 %	111.851 %	0.005 ppb	13,847.803 ppb	3,719.888 ppb	7.171 ppb	3,613.017 ppb	17,822.199 ppb	90.215 %
Concentration per Run 1	85.287 %	109.886 %	0.010 ppb	13,932.657 ppb	3,726.961 ppb	7.745 ppb	3,638.870 ppb	17,603.294 ppb	89.708 %
Concentration per Run 2	82.663 %	105.323 %	0.007 ppb	14,299.817 ppb	3,885.698 ppb	7.001 ppb	3,668.986 ppb	18,187.202 ppb	89.355 %
Concentration per Run 3	81.456 %	120.343 %	-0.001 ppb	13,310.935 ppb	3,547.006 ppb	6.766 ppb	3,531.195 ppb	17,676.099 ppb	91.581 %
Concentration RSD	2.4 %	6.9 %	112.5 %	3.6 %	4.6 %	7.1 %	2.0 %	1.8 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.341 ppb	0.131 ppb	5.729 ppb	34.149 ppb	0.086 ppb	0.636 ppb	0.988 ppb	1.008 ppb	103.968 %
Concentration per Run 1	0.375 ppb	0.114 ppb	5.576 ppb	35.305 ppb	0.085 ppb	0.708 ppb	1.040 ppb	1.051 ppb	98.773 %
Concentration per Run 2	0.304 ppb	0.130 ppb	5.672 ppb	33.223 ppb	0.070 ppb	0.542 ppb	0.943 ppb	0.987 ppb	105.987 %
Concentration per Run 3	0.344 ppb	0.149 ppb	5.938 ppb	33.920 ppb	0.102 ppb	0.659 ppb	0.982 ppb	0.986 ppb	107.144 %
Concentration RSD	10.3 %	13.4 %	3.3 %	3.1 %	18.4 %	13.4 %	5.0 %	3.7 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.201 ppb	0.098 ppb	72.846 ppb	0.448 ppb	96.951 %	0.000 ppb	0.008 ppb	98.425 %	0.080 ppb
Concentration per Run 1	0.241 ppb	-0.037 ppb	72.770 ppb	0.413 ppb	93.085 %	-0.001 ppb	0.006 ppb	96.106 %	0.092 ppb
Concentration per Run 2	0.221 ppb	0.208 ppb	71.574 ppb	0.479 ppb	98.759 %	0.000 ppb	0.013 ppb	99.064 %	0.073 ppb
Concentration per Run 3	0.142 ppb	0.124 ppb	74.194 ppb	0.451 ppb	99.009 %	0.001 ppb	0.006 ppb	100.104 %	0.073 ppb
Concentration RSD	25.9 %	126.8 %	1.8 %	7.4 %	3.5 %	5,242.0 %	51.7 %	2.1 %	14.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	29.978 ppb	96.825 %	97.639 %	0.014 ppb	0.013 ppb	94.926 %
Concentration per Run 1	29.164 ppb	92.314 %	93.749 %	0.002 ppb	0.015 ppb	93.769 %
Concentration per Run 2	30.945 ppb	97.337 %	97.682 %	0.018 ppb	0.014 ppb	95.070 %
Concentration per Run 3	29.826 ppb	100.824 %	101.488 %	0.022 ppb	0.011 ppb	95.938 %
Concentration RSD	3.0 %	4.4 %	4.0 %	75.3 %	14.7 %	1.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	48	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370175-07 2008SL	Rack	1		
Analysis started at:	12/5/2023 10:11:49 AM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.020 %	104.753 %	0.203 ppb	16,373.250 ppb	4,119.222 ppb	102.316 ppb	3,547.789 ppb	19,420.191 ppb	89.611 %
Concentration per Run 1	84.950 %	100.190 %	0.213 ppb	16,304.638 ppb	4,175.037 ppb	101.789 ppb	3,536.080 ppb	19,165.466 ppb	91.355 %
Concentration per Run 2	83.335 %	106.844 %	0.204 ppb	16,348.052 ppb	4,072.118 ppb	100.704 ppb	3,509.785 ppb	19,229.278 ppb	88.638 %
Concentration per Run 3	80.774 %	107.224 %	0.191 ppb	16,467.061 ppb	4,110.512 ppb	104.454 ppb	3,597.501 ppb	19,865.827 ppb	88.839 %
Concentration RSD	2.5 %	3.8 %	5.6 %	0.5 %	1.3 %	1.9 %	1.3 %	2.0 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.008 ppb	0.308 ppb	19.443 ppb	6.873 ppb	0.711 ppb	1.508 ppb	2.699 ppb	4.423 ppb	102.097 %
Concentration per Run 1	0.026 ppb	0.304 ppb	19.407 ppb	6.715 ppb	0.700 ppb	1.478 ppb	2.798 ppb	4.511 ppb	95.352 %
Concentration per Run 2	-0.027 ppb	0.268 ppb	18.290 ppb	8.112 ppb	0.770 ppb	1.605 ppb	2.613 ppb	4.300 ppb	107.390 %
Concentration per Run 3	0.024 ppb	0.352 ppb	20.631 ppb	5.792 ppb	0.663 ppb	1.440 ppb	2.684 ppb	4.459 ppb	103.547 %
Concentration RSD	390.7 %	13.7 %	6.0 %	17.0 %	7.7 %	5.7 %	3.5 %	2.5 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.258 ppb	0.213 ppb	79.907 ppb	0.134 ppb	96.687 %	0.000 ppb	0.064 ppb	97.640 %	0.037 ppb
Concentration per Run 1	0.354 ppb	0.237 ppb	77.832 ppb	0.091 ppb	95.842 %	0.000 ppb	0.055 ppb	91.640 %	0.038 ppb
Concentration per Run 2	0.094 ppb	0.142 ppb	80.114 ppb	0.194 ppb	95.968 %	0.001 ppb	0.075 ppb	103.183 %	0.042 ppb
Concentration per Run 3	0.326 ppb	0.261 ppb	81.775 ppb	0.116 ppb	98.250 %	-0.001 ppb	0.063 ppb	98.097 %	0.032 ppb
Concentration RSD	55.4 %	29.6 %	2.5 %	40.3 %	1.4 %	256.4 %	15.6 %	5.9 %	14.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	21.132 ppb	96.330 %	97.967 %	0.032 ppb	0.090 ppb	95.095 %
Concentration per Run 1	20.968 ppb	93.302 %	96.391 %	0.019 ppb	0.087 ppb	97.103 %
Concentration per Run 2	21.526 ppb	97.221 %	98.930 %	0.035 ppb	0.094 ppb	93.974 %
Concentration per Run 3	20.903 ppb	98.466 %	98.580 %	0.042 ppb	0.088 ppb	94.208 %
Concentration RSD	1.6 %	2.8 %	1.4 %	36.2 %	4.5 %	1.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	49	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 10:16:26 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.286 %	107.922 %	63.349 ppb	6,081.915 ppb	6,098.846 ppb	60.852 ppb	6,063.494 ppb	6,132.270 ppb	95.678 %
Concentration per Run 1	80.121 %	103.042 %	63.012 ppb	6,517.788 ppb	6,208.185 ppb	59.008 ppb	6,135.649 ppb	6,126.871 ppb	96.849 %
Concentration per Run 2	78.301 %	109.506 %	64.117 ppb	5,384.975 ppb	5,957.813 ppb	61.842 ppb	6,099.486 ppb	6,121.025 ppb	94.631 %
Concentration per Run 3	76.437 %	111.217 %	62.918 ppb	6,342.982 ppb	6,130.539 ppb	61.707 ppb	5,955.346 ppb	6,148.913 ppb	95.553 %
Recovery Percentage 1			105.582 %	101.365 %	101.647 %	101.421 %	101.058 %	102.204 %	
Concentration RSD	2.4 %	4.0 %	1.1 %	10.0 %	2.1 %	2.6 %	1.6 %	0.2 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.385 ppb	59.971 ppb	61.066 ppb	6,177.229 ppb	62.057 ppb	62.037 ppb	62.431 ppb	60.690 ppb	101.756 %
Concentration per Run 1	57.322 ppb	59.442 ppb	57.877 ppb	5,964.791 ppb	62.203 ppb	63.861 ppb	61.426 ppb	59.952 ppb	99.564 %
Concentration per Run 2	60.508 ppb	59.445 ppb	60.522 ppb	6,060.664 ppb	61.689 ppb	60.010 ppb	62.422 ppb	61.014 ppb	103.348 %
Concentration per Run 3	60.327 ppb	61.027 ppb	64.799 ppb	6,506.232 ppb	62.279 ppb	62.241 ppb	63.444 ppb	61.105 ppb	102.355 %
Recovery Percentage 1	98.976 %	99.952 %	101.777 %	102.954 %	103.428 %	103.396 %	104.051 %	101.150 %	
Concentration RSD	3.0 %	1.5 %	5.7 %	4.7 %	0.5 %	3.1 %	1.6 %	1.1 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.007 ppb	56.798 ppb	57.284 ppb	59.579 ppb	95.388 %	61.918 ppb	61.552 ppb	93.710 %	62.726 ppb
Concentration per Run 1	60.121 ppb	53.315 ppb	55.438 ppb	57.296 ppb	90.533 %	62.407 ppb	61.999 ppb	91.356 %	62.455 ppb
Concentration per Run 2	59.527 ppb	58.885 ppb	57.981 ppb	59.751 ppb	97.787 %	61.978 ppb	61.182 ppb	94.213 %	63.034 ppb
Concentration per Run 3	60.372 ppb	58.195 ppb	58.431 ppb	61.692 ppb	97.844 %	61.367 ppb	61.475 ppb	95.560 %	62.689 ppb
Recovery Percentage 1	100.011 %	94.664 %	95.473 %	99.299 %		103.196 %	102.586 %		104.543 %
Concentration RSD	0.7 %	5.3 %	2.8 %	3.7 %	4.4 %	0.8 %	0.7 %	2.3 %	0.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	62.867 ppb	93.494 %	94.300 %	61.817 ppb	55.367 ppb	97.352 %
Concentration per Run 1	61.469 ppb	89.493 %	91.790 %	53.333 ppb	51.992 ppb	101.268 %
Concentration per Run 2	63.902 ppb	95.585 %	96.695 %	60.609 ppb	56.271 ppb	97.265 %
Concentration per Run 3	63.229 ppb	95.406 %	94.417 %	71.508 ppb	57.839 ppb	93.522 %
Recovery Percentage 1	104.778 %			103.028 %	92.279 %	
Concentration RSD	2.0 %	3.7 %	2.6 %	14.8 %	5.5 %	4.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	50	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 10:21:08 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	76.909 %	102.979 %	0.015 ppb	2.559 ppb	-0.306 ppb	-0.469 ppb	1.954 ppb	-7.429 ppb	82.488 %
Concentration per Run 1	78.160 %	106.274 %	0.017 ppb	2.620 ppb	-0.678 ppb	-0.517 ppb	3.208 ppb	-9.275 ppb	82.792 %
Concentration per Run 2	76.363 %	99.620 %	0.016 ppb	3.945 ppb	0.178 ppb	-0.693 ppb	7.145 ppb	-9.464 ppb	80.974 %
Concentration per Run 3	76.202 %	103.042 %	0.011 ppb	1.113 ppb	-0.418 ppb	-0.198 ppb	-4.491 ppb	-3.547 ppb	83.698 %
Recovery Percentage 1			2.950 %	2.559 %	-0.437 %	-4.690 %	1.954 %	-7.429 %	
Concentration RSD	1.4 %	3.2 %	21.5 %	55.4 %	143.3 %	53.5 %	302.9 %	45.3 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.001 ppb	-0.008 ppb	-0.003 ppb	12.012 ppb	-0.003 ppb	0.014 ppb	-0.018 ppb	0.138 ppb	102.860 %
Concentration per Run 1	-0.007 ppb	-0.025 ppb	0.028 ppb	11.546 ppb	-0.003 ppb	0.032 ppb	-0.019 ppb	0.160 ppb	95.804 %
Concentration per Run 2	-0.016 ppb	-0.010 ppb	-0.016 ppb	13.200 ppb	-0.006 ppb	0.013 ppb	-0.020 ppb	0.141 ppb	103.365 %
Concentration per Run 3	0.022 ppb	0.012 ppb	-0.022 ppb	11.292 ppb	0.000 ppb	-0.005 ppb	-0.016 ppb	0.112 ppb	109.410 %
Recovery Percentage 1	-0.013 %	-0.767 %	-0.344 %	24.025 %	-0.543 %	0.685 %	-1.828 %	2.759 %	
Concentration RSD	3,164.8 %	248.0 %	786.1 %	8.6 %	116.0 %	134.4 %	13.2 %	17.4 %	6.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.168 ppb	0.398 ppb	-0.011 ppb	0.836 ppb	97.814 %	0.008 ppb	0.000 ppb	95.815 %	0.056 ppb
Concentration per Run 1	0.422 ppb	0.342 ppb	-0.009 ppb	0.961 ppb	95.223 %	0.009 ppb	-0.002 ppb	96.453 %	0.043 ppb
Concentration per Run 2	0.013 ppb	0.543 ppb	-0.010 ppb	0.824 ppb	98.942 %	0.006 ppb	0.000 ppb	96.817 %	0.072 ppb
Concentration per Run 3	0.068 ppb	0.310 ppb	-0.014 ppb	0.724 ppb	99.278 %	0.009 ppb	0.002 ppb	94.174 %	0.052 ppb
Recovery Percentage 1	33.532 %	7.968 %	-0.110 %	41.809 %		1.981 %	0.041 %		1.392 %
Concentration RSD	132.6 %	31.6 %	25.9 %	14.3 %	2.3 %	23.0 %	2,367.8 %	1.5 %	26.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.001 ppb	94.577 %	93.544 %	0.441 ppb	0.012 ppb	95.295 %
Concentration per Run 1	0.028 ppb	91.307 %	90.685 %	0.369 ppb	0.015 ppb	96.671 %
Concentration per Run 2	-0.013 ppb	96.688 %	96.444 %	0.509 ppb	0.011 ppb	95.723 %
Concentration per Run 3	-0.013 ppb	95.735 %	93.502 %	0.446 ppb	0.010 ppb	93.492 %
Recovery Percentage 1	0.167 %			44.140 %	1.201 %	
Concentration RSD	2,840.1 %	3.0 %	3.1 %	15.8 %	23.0 %	1.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 51
Analysis label: WG1856782-1 MCP-6020SL-10
Analysis started at: 12/5/2023 10:27:28 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 29
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.767 %	102.155 %	-0.003 ppb	7.805 ppb	0.009 ppb	0.016 ppb	3.156 ppb	-0.683 ppb	80.901 %
Concentration per Run 1	91.195 %	106.844 %	-0.005 ppb	0.426 ppb	-0.300 ppb	-0.167 ppb	-1.901 ppb	-3.387 ppb	82.506 %
Concentration per Run 2	89.655 %	104.373 %	-0.002 ppb	8.645 ppb	0.250 ppb	0.098 ppb	1.180 ppb	1.837 ppb	81.175 %
Concentration per Run 3	85.451 %	95.247 %	-0.001 ppb	14.345 ppb	0.077 ppb	0.117 ppb	10.188 ppb	-0.498 ppb	79.021 %
Concentration RSD	3.3 %	6.0 %	83.2 %	89.7 %	3,190.6 %	986.8 %	199.1 %	383.4 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.068 ppb	-0.010 ppb	0.002 ppb	-0.578 ppb	-0.004 ppb	0.035 ppb	-0.034 ppb	0.085 ppb	105.403 %
Concentration per Run 1	-0.082 ppb	-0.006 ppb	-0.007 ppb	-0.278 ppb	-0.006 ppb	0.011 ppb	-0.037 ppb	-0.037 ppb	104.735 %
Concentration per Run 2	-0.054 ppb	-0.025 ppb	0.017 ppb	-0.283 ppb	-0.003 ppb	0.062 ppb	-0.021 ppb	0.108 ppb	106.135 %
Concentration per Run 3	-0.067 ppb	0.000 ppb	-0.004 ppb	-1.173 ppb	-0.003 ppb	0.032 ppb	-0.044 ppb	0.182 ppb	105.341 %
Concentration RSD	20.7 %	127.2 %	601.8 %	89.2 %	38.4 %	72.8 %	34.1 %	131.7 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.075 ppb	-0.060 ppb	-0.007 ppb	0.078 ppb	99.225 %	-0.001 ppb	-0.001 ppb	92.754 %	0.001 ppb
Concentration per Run 1	-0.004 ppb	-0.097 ppb	-0.012 ppb	0.065 ppb	96.387 %	-0.001 ppb	-0.002 ppb	86.811 %	0.002 ppb
Concentration per Run 2	0.110 ppb	0.066 ppb	0.000 ppb	0.054 ppb	99.299 %	-0.001 ppb	0.000 ppb	94.855 %	0.001 ppb
Concentration per Run 3	0.120 ppb	-0.149 ppb	-0.007 ppb	0.115 ppb	101.990 %	-0.001 ppb	0.000 ppb	96.596 %	0.000 ppb
Concentration RSD	92.0 %	185.9 %	94.4 %	41.3 %	2.8 %	1.7 %	192.4 %	5.6 %	112.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.019 ppb	94.456 %	97.069 %	0.001 ppb	-0.004 ppb	53.860 %
Concentration per Run 1	-0.013 ppb	92.442 %	91.607 %	0.000 ppb	-0.003 ppb	51.522 %
Concentration per Run 2	0.042 ppb	93.648 %	98.576 %	0.004 ppb	-0.003 ppb	53.817 %
Concentration per Run 3	0.027 ppb	97.278 %	101.026 %	0.001 ppb	-0.004 ppb	56.241 %
Concentration RSD	151.8 %	2.7 %	5.0 %	145.0 %	8.8 %	4.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	52	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1856782-2d10 MCP-6020SL-10	Rack	1		
Analysis started at:	12/5/2023 10:32:06 AM	Vial	30		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.455 %	104.753 %	5.378 ppb	982.369 ppb	1,079.244 ppb	218.715 ppb	1,105.143 ppb	1,009.904 ppb	85.611 %
Concentration per Run 1	81.128 %	96.388 %	5.366 ppb	1,051.381 ppb	1,129.550 ppb	227.214 ppb	1,138.476 ppb	1,110.386 ppb	85.809 %
Concentration per Run 2	79.515 %	108.365 %	5.359 ppb	956.260 ppb	1,046.240 ppb	219.882 ppb	1,084.641 ppb	961.058 ppb	86.343 %
Concentration per Run 3	77.723 %	109.506 %	5.407 ppb	939.466 ppb	1,061.942 ppb	209.048 ppb	1,092.313 ppb	958.267 ppb	84.679 %
Concentration RSD	2.1 %	6.9 %	0.5 %	6.1 %	4.1 %	4.2 %	2.6 %	8.6 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.707 ppb	19.981 ppb	51.749 ppb	111.959 ppb	51.864 ppb	51.211 ppb	24.641 ppb	49.733 ppb	104.527 %
Concentration per Run 1	51.306 ppb	20.758 ppb	52.687 ppb	113.397 ppb	53.652 ppb	52.259 ppb	25.642 ppb	50.673 ppb	100.168 %
Concentration per Run 2	48.852 ppb	19.999 ppb	52.850 ppb	114.836 ppb	50.835 ppb	50.489 ppb	23.858 ppb	47.509 ppb	108.516 %
Concentration per Run 3	48.962 ppb	19.186 ppb	49.710 ppb	107.645 ppb	51.104 ppb	50.885 ppb	24.424 ppb	51.017 ppb	104.897 %
Concentration RSD	2.8 %	3.9 %	3.4 %	3.4 %	3.0 %	1.8 %	3.7 %	3.9 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.608 ppb	11.398 ppb	97.209 ppb	97.985 ppb	100.524 %	5.090 ppb	5.377 ppb	97.389 %	27.925 ppb
Concentration per Run 1	11.407 ppb	10.923 ppb	96.046 ppb	96.087 ppb	98.972 %	5.095 ppb	5.166 ppb	95.235 %	26.199 ppb
Concentration per Run 2	11.685 ppb	10.924 ppb	97.466 ppb	97.530 ppb	103.559 %	5.017 ppb	5.509 ppb	99.437 %	28.967 ppb
Concentration per Run 3	11.732 ppb	12.346 ppb	98.114 ppb	100.339 ppb	99.042 %	5.158 ppb	5.456 ppb	97.496 %	28.610 ppb
Concentration RSD	1.5 %	7.2 %	1.1 %	2.2 %	2.6 %	1.4 %	3.4 %	2.2 %	5.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	209.647 ppb	97.109 %	98.930 %	11.405 ppb	53.503 ppb	107.380 %
Concentration per Run 1	202.167 ppb	95.761 %	94.824 %	10.354 ppb	55.561 ppb	119.104 %
Concentration per Run 2	220.803 ppb	97.911 %	103.199 %	11.641 ppb	51.862 ppb	104.445 %
Concentration per Run 3	205.971 ppb	97.654 %	98.768 %	12.222 ppb	53.084 ppb	98.592 %
Concentration RSD	4.7 %	1.2 %	4.2 %	8.4 %	3.5 %	9.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	53	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1856782-3d10 MCP-6020SL-10	Rack	1		
Analysis started at:	12/5/2023 10:36:44 AM	Vial	31		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.672 %	111.470 %	5.106 ppb	894.399 ppb	995.633 ppb	201.158 ppb	996.979 ppb	1,034.853 ppb	86.211 %
Concentration per Run 1	81.531 %	102.091 %	5.053 ppb	966.295 ppb	1,072.421 ppb	208.964 ppb	1,061.330 ppb	1,093.894 ppb	86.856 %
Concentration per Run 2	79.683 %	110.266 %	5.201 ppb	902.937 ppb	987.187 ppb	207.242 ppb	1,039.640 ppb	946.527 ppb	86.722 %
Concentration per Run 3	77.803 %	122.054 %	5.064 ppb	813.965 ppb	927.290 ppb	187.266 ppb	889.968 ppb	1,064.137 ppb	85.056 %
Concentration RSD	2.3 %	9.0 %	1.6 %	8.6 %	7.3 %	6.0 %	9.4 %	7.5 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.003 ppb	18.922 ppb	48.837 ppb	104.624 ppb	48.678 ppb	47.556 ppb	23.886 ppb	47.209 ppb	104.198 %
Concentration per Run 1	45.904 ppb	19.756 ppb	50.923 ppb	115.653 ppb	50.849 ppb	49.938 ppb	25.032 ppb	49.391 ppb	97.701 %
Concentration per Run 2	46.460 ppb	18.278 ppb	48.697 ppb	94.886 ppb	47.366 ppb	44.682 ppb	22.344 ppb	45.511 ppb	112.192 %
Concentration per Run 3	45.647 ppb	18.732 ppb	46.889 ppb	103.333 ppb	47.820 ppb	48.047 ppb	24.283 ppb	46.725 ppb	102.700 %
Concentration RSD	0.9 %	4.0 %	4.1 %	10.0 %	3.9 %	5.6 %	5.8 %	4.2 %	7.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.250 ppb	10.941 ppb	94.339 ppb	95.823 ppb	99.111 %	4.818 ppb	5.026 ppb	100.528 %	31.864 ppb
Concentration per Run 1	11.735 ppb	10.842 ppb	94.303 ppb	95.949 ppb	97.680 %	4.863 ppb	5.066 ppb	97.067 %	31.172 ppb
Concentration per Run 2	10.588 ppb	10.939 ppb	94.406 ppb	93.390 ppb	100.365 %	4.776 ppb	5.016 ppb	102.917 %	32.632 ppb
Concentration per Run 3	11.429 ppb	11.042 ppb	94.308 ppb	98.130 ppb	99.288 %	4.816 ppb	4.996 ppb	101.599 %	31.789 ppb
Concentration RSD	5.3 %	0.9 %	0.1 %	2.5 %	1.4 %	0.9 %	0.7 %	3.1 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	191.707 ppb	97.611 %	99.856 %	11.907 ppb	51.284 ppb	97.810 %
Concentration per Run 1	191.597 ppb	94.154 %	95.568 %	11.152 ppb	53.438 ppb	102.874 %
Concentration per Run 2	195.988 ppb	101.075 %	104.538 %	12.090 ppb	49.091 ppb	96.697 %
Concentration per Run 3	187.538 ppb	97.606 %	99.462 %	12.481 ppb	51.323 ppb	93.860 %
Concentration RSD	2.2 %	3.5 %	4.5 %	5.7 %	4.2 %	4.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	54	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2369317-31 MCP-6020SL-10	Rack	1		
Analysis started at:	12/5/2023 10:41:23 AM	Vial	32		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.632 %	103.232 %	0.020 ppb	37,494.680 ppb	4,385.657 ppb	29.092 ppb	1,355.438 ppb	14,640.840 ppb	87.762 %
Concentration per Run 1	86.880 %	106.274 %	0.028 ppb	37,339.743 ppb	4,388.378 ppb	29.870 ppb	1,460.648 ppb	15,063.724 ppb	87.432 %
Concentration per Run 2	86.276 %	104.943 %	0.015 ppb	37,521.387 ppb	4,339.535 ppb	29.311 ppb	1,279.910 ppb	14,348.583 ppb	88.520 %
Concentration per Run 3	83.739 %	98.479 %	0.016 ppb	37,622.909 ppb	4,429.058 ppb	28.094 ppb	1,325.756 ppb	14,510.212 ppb	87.333 %
Concentration RSD	1.9 %	4.0 %	37.2 %	0.4 %	1.0 %	3.1 %	6.9 %	2.6 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.140 ppb	0.159 ppb	212.749 ppb	462.326 ppb	0.605 ppb	0.889 ppb	0.321 ppb	2.721 ppb	103.608 %
Concentration per Run 1	0.129 ppb	0.182 ppb	216.093 ppb	464.772 ppb	0.612 ppb	0.932 ppb	0.338 ppb	2.886 ppb	100.338 %
Concentration per Run 2	0.171 ppb	0.154 ppb	197.656 ppb	437.771 ppb	0.539 ppb	0.789 ppb	0.336 ppb	2.574 ppb	110.477 %
Concentration per Run 3	0.120 ppb	0.139 ppb	224.496 ppb	484.436 ppb	0.663 ppb	0.946 ppb	0.288 ppb	2.703 ppb	100.010 %
Concentration RSD	19.5 %	13.7 %	6.5 %	5.1 %	10.3 %	9.8 %	8.8 %	5.8 %	5.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.162 ppb	0.135 ppb	97.765 ppb	1.408 ppb	95.468 %	0.002 ppb	0.007 ppb	96.118 %	1.922 ppb
Concentration per Run 1	0.103 ppb	0.086 ppb	101.006 ppb	1.233 ppb	95.529 %	0.002 ppb	0.004 ppb	98.115 %	1.884 ppb
Concentration per Run 2	0.132 ppb	0.069 ppb	96.951 ppb	1.439 ppb	95.794 %	0.004 ppb	0.002 ppb	95.059 %	1.975 ppb
Concentration per Run 3	0.250 ppb	0.250 ppb	95.338 ppb	1.553 ppb	95.081 %	0.001 ppb	0.014 ppb	95.181 %	1.909 ppb
Concentration RSD	48.2 %	74.0 %	3.0 %	11.5 %	0.4 %	68.2 %	96.0 %	1.8 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	23.277 ppb	95.093 %	99.715 %	0.097 ppb	0.064 ppb	63.434 %
Concentration per Run 1	23.943 ppb	92.897 %	99.141 %	0.081 ppb	0.070 ppb	63.019 %
Concentration per Run 2	23.302 ppb	97.790 %	101.771 %	0.110 ppb	0.061 ppb	63.773 %
Concentration per Run 3	22.585 ppb	94.591 %	98.232 %	0.100 ppb	0.062 ppb	63.509 %
Concentration RSD	2.9 %	2.6 %	1.8 %	14.9 %	8.0 %	0.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	55	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2369317-32 MCP-6020SL-10	Rack	1		
Analysis started at:	12/5/2023 10:46:01 AM	Vial	33		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.502 %	93.790 %	0.010 ppb	133,732.682 ppb	13,639.388 ppb	17.352 ppb	19,230.534 ppb	155,129.176 ppb	102.967 %
Concentration per Run 1	86.719 %	91.825 %	0.010 ppb	137,277.406 ppb	14,113.749 ppb	19.137 ppb	20,521.823 ppb	167,023.472 ppb	103.520 %
Concentration per Run 2	84.819 %	102.662 %	0.014 ppb	126,746.201 ppb	12,922.943 ppb	16.005 ppb	17,692.786 ppb	143,740.242 ppb	103.157 %
Concentration per Run 3	81.966 %	86.882 %	0.007 ppb	137,174.438 ppb	13,881.471 ppb	16.915 ppb	19,476.992 ppb	154,623.815 ppb	102.224 %
Concentration RSD	2.8 %	8.6 %	34.6 %	4.5 %	4.6 %	9.3 %	7.4 %	7.5 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.692 ppb	0.888 ppb	908.416 ppb	62,520.682 ppb	2.613 ppb	17.820 ppb	1.505 ppb	334.754 ppb	101.913 %
Concentration per Run 1	0.767 ppb	0.947 ppb	935.048 ppb	63,964.904 ppb	2.647 ppb	18.176 ppb	1.477 ppb	340.992 ppb	102.562 %
Concentration per Run 2	0.615 ppb	0.810 ppb	884.204 ppb	59,054.873 ppb	2.520 ppb	16.842 ppb	1.511 ppb	323.029 ppb	105.454 %
Concentration per Run 3	0.693 ppb	0.907 ppb	905.997 ppb	64,542.268 ppb	2.672 ppb	18.442 ppb	1.525 ppb	340.241 ppb	97.722 %
Concentration RSD	11.0 %	7.9 %	2.8 %	4.8 %	3.1 %	4.8 %	1.7 %	3.0 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.511 ppb	0.112 ppb	665.332 ppb	1.331 ppb	91.885 %	0.005 ppb	0.255 ppb	97.443 %	1.135 ppb
Concentration per Run 1	4.574 ppb	0.060 ppb	696.157 ppb	1.120 ppb	91.425 %	0.005 ppb	0.233 ppb	99.793 %	1.107 ppb
Concentration per Run 2	4.352 ppb	-0.036 ppb	653.668 ppb	1.364 ppb	92.847 %	0.007 ppb	0.300 ppb	97.405 %	1.195 ppb
Concentration per Run 3	4.607 ppb	0.312 ppb	646.170 ppb	1.509 ppb	91.383 %	0.002 ppb	0.232 ppb	95.131 %	1.103 ppb
Concentration RSD	3.1 %	160.0 %	4.1 %	14.8 %	0.9 %	55.5 %	15.3 %	2.4 %	4.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1,603.174 ppb	98.046 %	101.024 %	0.042 ppb	0.121 ppb	71.656 %
Concentration per Run 1	1,652.781 ppb	98.428 %	102.061 %	0.035 ppb	0.119 ppb	69.573 %
Concentration per Run 2	1,578.386 ppb	100.379 %	103.824 %	0.049 ppb	0.119 ppb	72.605 %
Concentration per Run 3	1,578.353 ppb	95.332 %	97.188 %	0.043 ppb	0.125 ppb	72.792 %
Concentration RSD	2.7 %	2.6 %	3.4 %	17.5 %	2.8 %	2.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	56	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2369317-33 MCP-6020SL-10	Rack	1		
Analysis started at:	12/5/2023 10:50:40 AM	Vial	34		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.358 %	101.838 %	0.012 ppb	124,343.739 ppb	5,824.686 ppb	10.132 ppb	5,462.681 ppb	47,742.903 ppb	93.718 %
Concentration per Run 1	86.307 %	101.901 %	0.008 ppb	129,244.678 ppb	6,028.306 ppb	9.566 ppb	5,757.812 ppb	49,778.456 ppb	94.924 %
Concentration per Run 2	84.244 %	97.529 %	0.012 ppb	125,832.864 ppb	5,854.526 ppb	10.693 ppb	5,520.921 ppb	48,408.330 ppb	94.088 %
Concentration per Run 3	82.521 %	106.084 %	0.015 ppb	117,953.675 ppb	5,591.228 ppb	10.136 ppb	5,109.309 ppb	45,041.923 ppb	92.142 %
Concentration RSD	2.2 %	4.2 %	29.4 %	4.7 %	3.8 %	5.6 %	6.0 %	5.1 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.037 ppb	0.136 ppb	1,258.366 ppb	2,080.723 ppb	4.978 ppb	5.453 ppb	1.411 ppb	23.465 ppb	102.284 %
Concentration per Run 1	0.074 ppb	0.169 ppb	1,289.130 ppb	2,094.167 ppb	5.057 ppb	5.896 ppb	1.488 ppb	24.349 ppb	99.424 %
Concentration per Run 2	-0.001 ppb	0.128 ppb	1,264.763 ppb	2,140.287 ppb	5.011 ppb	5.294 ppb	1.360 ppb	23.581 ppb	102.292 %
Concentration per Run 3	0.038 ppb	0.110 ppb	1,221.206 ppb	2,007.715 ppb	4.867 ppb	5.169 ppb	1.384 ppb	22.465 ppb	105.135 %
Concentration RSD	101.0 %	22.4 %	2.7 %	3.2 %	2.0 %	7.1 %	4.8 %	4.0 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.757 ppb	0.049 ppb	393.475 ppb	0.472 ppb	93.389 %	0.000 ppb	0.233 ppb	99.024 %	0.616 ppb
Concentration per Run 1	0.872 ppb	0.014 ppb	403.999 ppb	0.455 ppb	92.700 %	0.001 ppb	0.264 ppb	99.209 %	0.617 ppb
Concentration per Run 2	0.812 ppb	0.010 ppb	390.366 ppb	0.395 ppb	93.038 %	0.001 ppb	0.214 ppb	99.793 %	0.628 ppb
Concentration per Run 3	0.587 ppb	0.124 ppb	386.059 ppb	0.567 ppb	94.431 %	-0.001 ppb	0.221 ppb	98.070 %	0.602 ppb
Concentration RSD	19.8 %	131.1 %	2.4 %	18.5 %	1.0 %	464.4 %	11.5 %	0.9 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	55.609 ppb	98.545 %	103.091 %	0.161 ppb	0.036 ppb	64.680 %
Concentration per Run 1	56.679 ppb	99.003 %	102.164 %	0.152 ppb	0.034 ppb	64.586 %
Concentration per Run 2	54.772 ppb	97.158 %	103.644 %	0.165 ppb	0.035 ppb	63.590 %
Concentration per Run 3	55.375 ppb	99.473 %	103.465 %	0.166 ppb	0.038 ppb	65.865 %
Concentration RSD	1.8 %	1.2 %	0.8 %	4.9 %	5.9 %	1.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 57
Analysis label: I2369317-34 MCP-6020SL-10
Analysis started at: 12/5/2023 10:55:20 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 35
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.032 %	102.662 %	0.003 ppb	92,125.699 ppb	23,670.014 ppb	3.675 ppb	19,516.865 ppb	118,473.439 ppb	101.243 %
Concentration per Run 1	94.563 %	110.837 %	0.002 ppb	87,398.912 ppb	22,602.076 ppb	3.603 ppb	18,355.044 ppb	115,963.669 ppb	102.568 %
Concentration per Run 2	91.682 %	96.768 %	0.009 ppb	93,710.962 ppb	24,968.169 ppb	3.254 ppb	20,159.431 ppb	119,559.671 ppb	101.300 %
Concentration per Run 3	89.851 %	100.380 %	-0.001 ppb	95,267.223 ppb	23,439.798 ppb	4.169 ppb	20,036.122 ppb	119,896.977 ppb	99.863 %
Concentration RSD	2.6 %	7.1 %	167.3 %	4.5 %	5.1 %	12.6 %	5.2 %	1.8 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.117 ppb	0.303 ppb	1,555.436 ppb	5,163.959 ppb	1.090 ppb	2.934 ppb	0.303 ppb	6.145 ppb	103.610 %
Concentration per Run 1	0.116 ppb	0.256 ppb	1,540.161 ppb	4,883.330 ppb	1.084 ppb	2.843 ppb	0.276 ppb	6.091 ppb	102.293 %
Concentration per Run 2	0.136 ppb	0.313 ppb	1,562.263 ppb	5,219.529 ppb	1.066 ppb	3.010 ppb	0.321 ppb	6.213 ppb	105.077 %
Concentration per Run 3	0.099 ppb	0.339 ppb	1,563.885 ppb	5,389.019 ppb	1.119 ppb	2.949 ppb	0.311 ppb	6.130 ppb	103.461 %
Concentration RSD	15.7 %	14.1 %	0.9 %	5.0 %	2.5 %	2.9 %	7.7 %	1.0 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	5.598 ppb	0.035 ppb	578.749 ppb	0.476 ppb	92.590 %	0.000 ppb	0.001 ppb	97.731 %	0.392 ppb
Concentration per Run 1	5.766 ppb	0.014 ppb	581.615 ppb	0.487 ppb	91.306 %	0.000 ppb	0.000 ppb	95.291 %	0.369 ppb
Concentration per Run 2	5.484 ppb	-0.029 ppb	571.934 ppb	0.465 ppb	93.705 %	-0.001 ppb	0.002 ppb	98.358 %	0.409 ppb
Concentration per Run 3	5.543 ppb	0.121 ppb	582.698 ppb	0.475 ppb	92.758 %	-0.001 ppb	0.000 ppb	99.544 %	0.399 ppb
Concentration RSD	2.7 %	219.7 %	1.0 %	2.4 %	1.3 %	261.2 %	149.9 %	2.2 %	5.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	195.692 ppb	98.660 %	101.957 %	0.029 ppb	0.015 ppb	64.642 %
Concentration per Run 1	200.377 ppb	97.284 %	100.289 %	0.016 ppb	0.014 ppb	61.675 %
Concentration per Run 2	190.674 ppb	99.815 %	105.610 %	0.036 ppb	0.014 ppb	65.867 %
Concentration per Run 3	196.025 ppb	98.880 %	99.973 %	0.036 ppb	0.016 ppb	66.385 %
Concentration RSD	2.5 %	1.3 %	3.1 %	40.6 %	8.9 %	4.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	58	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2369317-35 MCP-6020SL-10	Rack	1		
Analysis started at:	12/5/2023 10:59:59 AM	Vial	36		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.400 %	96.641 %	0.003 ppb	96,568.185 ppb	17,265.716 ppb	3.705 ppb	17,159.306 ppb	89,110.312 ppb	103.209 %
Concentration per Run 1	96.877 %	93.916 %	0.001 ppb	99,077.867 ppb	18,376.478 ppb	3.836 ppb	17,377.923 ppb	91,118.692 ppb	103.918 %
Concentration per Run 2	95.689 %	96.958 %	0.002 ppb	97,199.333 ppb	17,203.714 ppb	3.516 ppb	17,341.791 ppb	88,680.063 ppb	102.588 %
Concentration per Run 3	93.634 %	99.049 %	0.008 ppb	93,427.355 ppb	16,216.957 ppb	3.762 ppb	16,758.205 ppb	87,532.182 ppb	103.122 %
Concentration RSD	1.7 %	2.7 %	115.4 %	3.0 %	6.3 %	4.5 %	2.0 %	2.1 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.142 ppb	0.325 ppb	1,555.933 ppb	5,338.420 ppb	2.002 ppb	3.772 ppb	0.447 ppb	5.470 ppb	102.209 %
Concentration per Run 1	0.106 ppb	0.356 ppb	1,510.074 ppb	5,155.673 ppb	1.988 ppb	3.792 ppb	0.463 ppb	5.599 ppb	101.811 %
Concentration per Run 2	0.134 ppb	0.288 ppb	1,567.985 ppb	5,423.866 ppb	1.997 ppb	3.739 ppb	0.442 ppb	5.503 ppb	101.311 %
Concentration per Run 3	0.188 ppb	0.332 ppb	1,589.740 ppb	5,435.720 ppb	2.022 ppb	3.784 ppb	0.435 ppb	5.307 ppb	103.506 %
Concentration RSD	29.2 %	10.6 %	2.6 %	3.0 %	0.9 %	0.8 %	3.2 %	2.7 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.730 ppb	0.002 ppb	455.091 ppb	0.356 ppb	92.375 %	0.000 ppb	0.001 ppb	96.601 %	0.346 ppb
Concentration per Run 1	10.823 ppb	-0.087 ppb	448.556 ppb	0.290 ppb	92.529 %	0.001 ppb	0.000 ppb	92.556 %	0.361 ppb
Concentration per Run 2	10.534 ppb	-0.039 ppb	455.201 ppb	0.383 ppb	92.992 %	-0.001 ppb	0.000 ppb	100.110 %	0.338 ppb
Concentration per Run 3	10.833 ppb	0.131 ppb	461.516 ppb	0.394 ppb	91.603 %	0.001 ppb	0.002 ppb	97.136 %	0.338 ppb
Concentration RSD	1.6 %	6,424.6 %	1.4 %	16.1 %	0.8 %	414.1 %	148.4 %	3.9 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	150.479 ppb	98.067 %	102.088 %	0.027 ppb	0.015 ppb	64.502 %
Concentration per Run 1	154.299 ppb	96.984 %	100.591 %	0.018 ppb	0.016 ppb	61.887 %
Concentration per Run 2	151.608 ppb	98.275 %	101.703 %	0.028 ppb	0.016 ppb	65.301 %
Concentration per Run 3	145.530 ppb	98.943 %	103.971 %	0.035 ppb	0.014 ppb	66.318 %
Concentration RSD	3.0 %	1.0 %	1.7 %	32.2 %	6.3 %	3.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	59	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 11:04:39 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.389 %	110.140 %	63.164 ppb	6,067.961 ppb	6,077.597 ppb	62.770 ppb	6,080.386 ppb	5,986.559 ppb	104.231 %
Concentration per Run 1	91.200 %	103.422 %	62.851 ppb	5,772.077 ppb	6,254.284 ppb	65.826 ppb	6,155.450 ppb	6,088.837 ppb	105.508 %
Concentration per Run 2	89.903 %	114.069 %	63.013 ppb	6,247.443 ppb	5,963.136 ppb	61.043 ppb	5,980.689 ppb	5,827.345 ppb	104.467 %
Concentration per Run 3	87.063 %	112.928 %	63.628 ppb	6,184.364 ppb	6,015.371 ppb	61.441 ppb	6,105.020 ppb	6,043.495 ppb	102.717 %
Recovery Percentage 1			105.273 %	101.133 %	101.293 %	104.617 %	101.340 %	99.776 %	
Concentration RSD	2.4 %	5.3 %	0.6 %	4.3 %	2.6 %	4.2 %	1.5 %	2.3 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.868 ppb	58.699 ppb	59.753 ppb	6,179.274 ppb	61.940 ppb	62.050 ppb	61.138 ppb	60.250 ppb	104.364 %
Concentration per Run 1	60.540 ppb	59.796 ppb	61.179 ppb	6,260.510 ppb	64.453 ppb	64.604 ppb	61.866 ppb	60.731 ppb	102.580 %
Concentration per Run 2	57.215 ppb	57.708 ppb	56.602 ppb	6,170.539 ppb	59.478 ppb	61.182 ppb	60.612 ppb	60.150 ppb	104.719 %
Concentration per Run 3	58.850 ppb	58.592 ppb	61.478 ppb	6,106.772 ppb	61.890 ppb	60.362 ppb	60.935 ppb	59.868 ppb	105.794 %
Recovery Percentage 1	98.114 %	97.831 %	99.588 %	102.988 %	103.234 %	103.416 %	101.896 %	100.416 %	
Concentration RSD	2.8 %	1.8 %	4.6 %	1.2 %	4.0 %	3.6 %	1.1 %	0.7 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.382 ppb	58.573 ppb	59.700 ppb	61.210 ppb	97.668 %	60.193 ppb	59.790 ppb	100.748 %	62.255 ppb
Concentration per Run 1	63.096 ppb	58.551 ppb	59.697 ppb	60.107 ppb	95.913 %	60.069 ppb	60.678 ppb	98.693 %	62.197 ppb
Concentration per Run 2	60.120 ppb	59.057 ppb	59.471 ppb	61.673 ppb	98.182 %	60.190 ppb	59.360 ppb	101.223 %	61.934 ppb
Concentration per Run 3	60.929 ppb	58.111 ppb	59.932 ppb	61.851 ppb	98.908 %	60.321 ppb	59.332 ppb	102.329 %	62.633 ppb
Recovery Percentage 1	102.303 %	97.621 %	99.500 %	102.017 %		100.322 %	99.650 %		103.758 %
Concentration RSD	2.5 %	0.8 %	0.4 %	1.6 %	1.6 %	0.2 %	1.3 %	1.9 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.930 ppb	96.309 %	98.543 %	59.342 ppb	60.130 ppb	109.255 %
Concentration per Run 1	64.099 ppb	95.130 %	96.711 %	47.196 ppb	61.029 ppb	122.805 %
Concentration per Run 2	58.760 ppb	96.262 %	100.789 %	62.595 ppb	58.351 ppb	105.720 %
Concentration per Run 3	62.932 ppb	97.533 %	98.129 %	68.234 ppb	61.011 ppb	99.240 %
Recovery Percentage 1	103.217 %			98.903 %	100.217 %	
Concentration RSD	4.5 %	1.2 %	2.1 %	18.4 %	2.6 %	11.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	60	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 11:09:21 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.840 %	107.668 %	0.009 ppb	33.829 ppb	-0.097 ppb	-0.353 ppb	8.407 ppb	-4.871 ppb	91.262 %
Concentration per Run 1	88.536 %	115.590 %	0.011 ppb	33.993 ppb	0.252 ppb	-0.354 ppb	13.458 ppb	-10.384 ppb	90.920 %
Concentration per Run 2	87.361 %	104.753 %	0.008 ppb	34.958 ppb	-0.551 ppb	-0.388 ppb	7.855 ppb	-3.327 ppb	92.478 %
Concentration per Run 3	84.625 %	102.662 %	0.008 ppb	32.535 ppb	0.008 ppb	-0.316 ppb	3.908 ppb	-0.901 ppb	90.387 %
Recovery Percentage 1			1.831 %	33.829 %	-0.139 %	-3.527 %	8.407 %	-4.871 %	
Concentration RSD	2.3 %	6.4 %	19.4 %	3.6 %	423.3 %	10.3 %	57.1 %	101.1 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.045 ppb	-0.005 ppb	-0.015 ppb	23.254 ppb	-0.003 ppb	-0.012 ppb	-0.022 ppb	0.140 ppb	105.057 %
Concentration per Run 1	-0.042 ppb	-0.012 ppb	-0.048 ppb	22.096 ppb	-0.007 ppb	-0.032 ppb	-0.016 ppb	0.146 ppb	107.383 %
Concentration per Run 2	-0.032 ppb	-0.002 ppb	-0.018 ppb	21.717 ppb	-0.001 ppb	0.031 ppb	-0.031 ppb	0.148 ppb	104.283 %
Concentration per Run 3	-0.060 ppb	-0.002 ppb	0.021 ppb	25.950 ppb	-0.002 ppb	-0.035 ppb	-0.021 ppb	0.126 ppb	103.505 %
Recovery Percentage 1	-0.899 %	-0.533 %	-1.513 %	46.508 %	-0.653 %	-0.606 %	-2.235 %	2.800 %	
Concentration RSD	31.8 %	114.0 %	226.4 %	10.1 %	114.0 %	307.1 %	34.5 %	8.6 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.096 ppb	0.186 ppb	-0.005 ppb	0.867 ppb	100.115 %	0.004 ppb	-0.001 ppb	100.030 %	0.341 ppb
Concentration per Run 1	0.159 ppb	0.107 ppb	-0.005 ppb	0.909 ppb	101.802 %	0.005 ppb	-0.002 ppb	105.168 %	0.334 ppb
Concentration per Run 2	0.147 ppb	0.179 ppb	-0.004 ppb	0.795 ppb	100.433 %	0.003 ppb	-0.002 ppb	97.303 %	0.334 ppb
Concentration per Run 3	-0.018 ppb	0.270 ppb	-0.005 ppb	0.897 ppb	98.110 %	0.005 ppb	0.000 ppb	97.619 %	0.353 ppb
Recovery Percentage 1	19.142 %	3.710 %	-0.048 %	43.357 %		1.083 %	-0.613 %		8.515 %
Concentration RSD	103.4 %	44.1 %	7.5 %	7.2 %	1.9 %	35.7 %	90.5 %	4.5 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.009 ppb	97.523 %	101.667 %	0.445 ppb	0.011 ppb	98.306 %
Concentration per Run 1	-0.013 ppb	97.862 %	106.100 %	0.364 ppb	0.014 ppb	104.220 %
Concentration per Run 2	0.040 ppb	97.050 %	99.131 %	0.525 ppb	0.010 ppb	96.248 %
Concentration per Run 3	0.000 ppb	97.658 %	99.772 %	0.446 ppb	0.009 ppb	94.449 %
Recovery Percentage 1	1.830 %			44.494 %	1.068 %	
Concentration RSD	300.4 %	0.4 %	3.8 %	18.0 %	23.9 %	5.3 %

Analysis index:	61	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	line blew out	Rack	1		
Analysis started at:	12/5/2023 11:21:30 AM	Vial	37		

Analysis index:	62	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	xWG1859770-1 6020TL	Rack	1		
Analysis started at:	12/5/2023 11:32:23 AM	Vial	37		

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	63	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859770-1 6020TL	Rack	1		
Analysis started at:	12/5/2023 11:37:47 AM	Vial	37		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.503 %	99.873 %	0.000 ppb	8.922 ppb	2.044 ppb	1.694 ppb	-3.702 ppb	8.961 ppb	109.422 %
Concentration per Run 1	113.410 %	101.331 %	-0.001 ppb	8.248 ppb	2.794 ppb	2.188 ppb	-0.870 ppb	7.800 ppb	110.870 %
Concentration per Run 2	108.601 %	95.437 %	0.001 ppb	11.180 ppb	1.573 ppb	1.131 ppb	-7.635 ppb	8.582 ppb	108.362 %
Concentration per Run 3	106.497 %	102.852 %	0.001 ppb	7.339 ppb	1.765 ppb	1.762 ppb	-2.603 ppb	10.502 ppb	109.034 %
Concentration RSD	3.2 %	3.9 %	295.1 %	22.5 %	32.1 %	31.4 %	94.9 %	15.5 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.075 ppb	0.034 ppb	0.110 ppb	4.645 ppb	-0.002 ppb	0.001 ppb	0.011 ppb	0.336 ppb	101.096 %
Concentration per Run 1	-0.067 ppb	0.050 ppb	0.100 ppb	4.910 ppb	-0.003 ppb	0.009 ppb	0.024 ppb	0.314 ppb	101.628 %
Concentration per Run 2	-0.089 ppb	0.051 ppb	0.099 ppb	4.591 ppb	-0.001 ppb	-0.012 ppb	0.021 ppb	0.337 ppb	96.800 %
Concentration per Run 3	-0.068 ppb	0.001 ppb	0.132 ppb	4.435 ppb	-0.002 ppb	0.007 ppb	-0.011 ppb	0.357 ppb	104.859 %
Concentration RSD	16.7 %	83.7 %	16.8 %	5.2 %	48.2 %	830.3 %	172.4 %	6.5 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.021 ppb	0.013 ppb	0.107 ppb	0.155 ppb	101.474 %	0.000 ppb	-0.001 ppb	104.592 %	0.143 ppb
Concentration per Run 1	-0.016 ppb	0.023 ppb	0.122 ppb	0.161 ppb	100.041 %	-0.001 ppb	-0.002 ppb	101.425 %	0.148 ppb
Concentration per Run 2	0.093 ppb	-0.099 ppb	0.093 ppb	0.118 ppb	98.626 %	0.000 ppb	0.000 ppb	101.211 %	0.139 ppb
Concentration per Run 3	-0.014 ppb	0.114 ppb	0.105 ppb	0.184 ppb	105.756 %	0.000 ppb	-0.002 ppb	111.138 %	0.140 ppb
Concentration RSD	301.5 %	842.3 %	13.3 %	21.6 %	3.7 %	208.7 %	87.1 %	5.4 %	3.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.012 ppb	100.615 %	104.587 %	0.030 ppb	0.044 ppb	104.355 %
Concentration per Run 1	0.012 ppb	103.969 %	106.167 %	0.020 ppb	0.043 ppb	105.394 %
Concentration per Run 2	0.000 ppb	98.065 %	100.349 %	0.033 ppb	0.042 ppb	103.060 %
Concentration per Run 3	0.024 ppb	99.811 %	107.245 %	0.036 ppb	0.045 ppb	104.611 %
Concentration RSD	98.8 %	3.0 %	3.5 %	29.2 %	3.5 %	1.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	64	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859770-2d5 6020TL	Rack	1		
Analysis started at:	12/5/2023 11:49:07 AM	Vial	38		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.562 %	112.738 %	10.357 ppb	1,831.857 ppb	2,049.723 ppb	438.526 ppb	2,092.237 ppb	1,969.181 ppb	109.191 %
Concentration per Run 1	108.222 %	111.977 %	10.056 ppb	1,789.837 ppb	2,014.933 ppb	421.396 ppb	1,994.060 ppb	2,038.008 ppb	111.399 %
Concentration per Run 2	103.628 %	113.118 %	10.406 ppb	1,746.045 ppb	1,930.242 ppb	423.613 ppb	2,041.304 ppb	1,950.322 ppb	108.517 %
Concentration per Run 3	101.835 %	113.118 %	10.609 ppb	1,959.688 ppb	2,203.993 ppb	470.571 ppb	2,241.347 ppb	1,919.213 ppb	107.658 %
Concentration RSD	3.2 %	0.6 %	2.7 %	6.2 %	6.8 %	6.3 %	6.3 %	3.1 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	97.297 ppb	39.202 ppb	101.598 ppb	209.456 ppb	99.865 ppb	98.714 ppb	49.135 ppb	97.152 ppb	112.935 %
Concentration per Run 1	97.772 ppb	38.751 ppb	98.704 ppb	215.607 ppb	101.561 ppb	101.545 ppb	49.585 ppb	94.941 ppb	110.016 %
Concentration per Run 2	92.681 ppb	38.299 ppb	97.624 ppb	195.472 ppb	98.834 ppb	96.951 ppb	47.901 ppb	96.352 ppb	113.332 %
Concentration per Run 3	101.437 ppb	40.555 ppb	108.466 ppb	217.290 ppb	99.200 ppb	97.646 ppb	49.918 ppb	100.162 ppb	115.456 %
Concentration RSD	4.5 %	3.0 %	5.9 %	5.8 %	1.5 %	2.5 %	2.2 %	2.8 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	23.683 ppb	23.717 ppb	197.850 ppb	204.577 ppb	104.237 %	9.687 ppb	10.344 ppb	111.814 %	83.827 ppb
Concentration per Run 1	23.726 ppb	23.517 ppb	193.335 ppb	199.328 ppb	102.593 %	9.843 ppb	10.283 ppb	108.330 %	86.105 ppb
Concentration per Run 2	22.807 ppb	20.994 ppb	193.457 ppb	205.730 ppb	101.935 %	9.683 ppb	10.267 ppb	110.521 %	80.547 ppb
Concentration per Run 3	24.516 ppb	26.640 ppb	206.759 ppb	208.674 ppb	108.184 %	9.534 ppb	10.483 ppb	116.592 %	84.830 ppb
Concentration RSD	3.6 %	11.9 %	3.9 %	2.3 %	3.3 %	1.6 %	1.2 %	3.8 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	405.603 ppb	106.396 %	111.029 %	23.202 ppb	102.245 ppb	109.820 %
Concentration per Run 1	414.232 ppb	104.862 %	107.244 %	23.219 ppb	101.083 ppb	108.837 %
Concentration per Run 2	400.790 ppb	105.376 %	108.416 %	23.004 ppb	101.268 ppb	109.872 %
Concentration per Run 3	401.786 ppb	108.951 %	117.426 %	23.383 ppb	104.384 ppb	110.749 %
Concentration RSD	1.8 %	2.1 %	5.0 %	0.8 %	1.8 %	0.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 65
Analysis label: WG1859770-3d10 6020TL
Analysis started at: 12/5/2023 11:53:44 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 40
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.853 %	108.872 %	4.932 ppb	5,968.402 ppb	2,036.592 ppb	246.609 ppb	1,096.535 ppb	2,658.974 ppb	106.698 %
Concentration per Run 1	105.357 %	109.886 %	4.840 ppb	5,794.220 ppb	1,979.988 ppb	227.221 ppb	1,088.600 ppb	2,527.375 ppb	108.595 %
Concentration per Run 2	103.006 %	108.745 %	4.870 ppb	5,850.085 ppb	2,046.688 ppb	249.111 ppb	1,066.976 ppb	2,587.904 ppb	106.835 %
Concentration per Run 3	97.196 %	107.985 %	5.086 ppb	6,260.901 ppb	2,083.099 ppb	263.495 ppb	1,134.030 ppb	2,861.644 ppb	104.662 %
Concentration RSD	4.1 %	0.9 %	2.7 %	4.3 %	2.6 %	7.4 %	3.1 %	6.7 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.334 ppb	19.395 ppb	51.213 ppb	141.881 ppb	47.443 ppb	47.018 ppb	23.713 ppb	46.919 ppb	110.878 %
Concentration per Run 1	47.495 ppb	19.729 ppb	51.440 ppb	137.705 ppb	49.501 ppb	48.984 ppb	24.844 ppb	47.276 ppb	103.813 %
Concentration per Run 2	47.752 ppb	19.846 ppb	50.051 ppb	146.764 ppb	47.752 ppb	45.962 ppb	23.631 ppb	46.222 ppb	109.285 %
Concentration per Run 3	46.756 ppb	18.611 ppb	52.148 ppb	141.175 ppb	45.076 ppb	46.107 ppb	22.665 ppb	47.258 ppb	119.536 %
Concentration RSD	1.1 %	3.5 %	2.1 %	3.2 %	4.7 %	3.6 %	4.6 %	1.3 %	7.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.281 ppb	12.305 ppb	100.617 ppb	91.759 ppb	103.198 %	4.555 ppb	4.951 ppb	111.346 %	37.505 ppb
Concentration per Run 1	11.724 ppb	12.273 ppb	101.864 ppb	90.515 ppb	100.221 %	4.647 ppb	5.058 ppb	109.307 %	35.872 ppb
Concentration per Run 2	10.769 ppb	11.992 ppb	98.121 ppb	91.528 ppb	103.704 %	4.570 ppb	4.983 ppb	108.021 %	38.009 ppb
Concentration per Run 3	11.350 ppb	12.651 ppb	101.866 ppb	93.234 ppb	105.668 %	4.448 ppb	4.810 ppb	116.711 %	38.634 ppb
Concentration RSD	4.3 %	2.7 %	2.1 %	1.5 %	2.7 %	2.2 %	2.6 %	4.2 %	3.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	192.863 ppb	104.542 %	110.415 %	10.764 ppb	44.592 ppb	106.743 %
Concentration per Run 1	186.767 ppb	102.898 %	109.561 %	10.740 ppb	43.916 ppb	105.738 %
Concentration per Run 2	196.985 ppb	105.082 %	105.880 %	10.724 ppb	44.331 ppb	106.472 %
Concentration per Run 3	194.836 ppb	105.646 %	115.805 %	10.828 ppb	45.528 ppb	108.019 %
Concentration RSD	2.8 %	1.4 %	4.5 %	0.5 %	1.9 %	1.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 66
Analysis label: WG1859770-4d10 6020TL
Analysis started at: 12/5/2023 11:58:21 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 41
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.288 %	109.696 %	5.170 ppb	5,699.712 ppb	2,075.020 ppb	245.936 ppb	1,062.765 ppb	2,547.088 ppb	101.818 %
Concentration per Run 1	99.069 %	103.042 %	5.126 ppb	6,386.836 ppb	2,283.734 ppb	262.362 ppb	1,124.624 ppb	2,790.712 ppb	101.420 %
Concentration per Run 2	97.011 %	109.506 %	5.216 ppb	5,648.839 ppb	1,929.885 ppb	221.732 ppb	965.766 ppb	2,250.864 ppb	101.476 %
Concentration per Run 3	95.784 %	116.540 %	5.169 ppb	5,063.462 ppb	2,011.440 ppb	253.714 ppb	1,097.906 ppb	2,599.688 ppb	102.557 %
Concentration RSD	1.7 %	6.2 %	0.9 %	11.6 %	8.9 %	8.7 %	8.0 %	10.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	44.502 ppb	18.556 ppb	48.821 ppb	128.168 ppb	45.600 ppb	45.381 ppb	22.446 ppb	44.292 ppb	122.661 %
Concentration per Run 1	48.125 ppb	20.509 ppb	51.149 ppb	136.580 ppb	50.758 ppb	50.473 ppb	24.882 ppb	49.084 ppb	106.627 %
Concentration per Run 2	40.751 ppb	16.518 ppb	45.070 ppb	114.768 ppb	40.726 ppb	40.772 ppb	19.696 ppb	38.951 ppb	136.196 %
Concentration per Run 3	44.629 ppb	18.642 ppb	50.243 ppb	133.157 ppb	45.315 ppb	44.897 ppb	22.759 ppb	44.842 ppb	125.161 %
Concentration RSD	8.3 %	10.8 %	6.7 %	9.2 %	11.0 %	10.7 %	11.6 %	11.5 %	12.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.386 ppb	11.026 ppb	100.119 ppb	93.702 ppb	102.019 %	4.885 ppb	5.260 ppb	108.224 %	39.234 ppb
Concentration per Run 1	11.911 ppb	11.555 ppb	105.670 ppb	99.412 ppb	95.771 %	5.223 ppb	5.576 ppb	102.174 %	39.504 ppb
Concentration per Run 2	8.906 ppb	9.440 ppb	90.282 ppb	87.707 ppb	103.844 %	4.766 ppb	5.160 ppb	104.070 %	39.588 ppb
Concentration per Run 3	10.342 ppb	12.083 ppb	104.403 ppb	93.989 ppb	106.440 %	4.667 ppb	5.044 ppb	118.429 %	38.609 ppb
Concentration RSD	14.5 %	12.7 %	8.5 %	6.3 %	5.5 %	6.1 %	5.3 %	8.2 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	210.863 ppb	102.014 %	106.992 %	12.140 ppb	49.819 ppb	98.983 %
Concentration per Run 1	215.049 ppb	96.143 %	98.785 %	12.193 ppb	49.165 ppb	99.898 %
Concentration per Run 2	207.936 ppb	102.991 %	106.699 %	12.569 ppb	50.895 ppb	94.582 %
Concentration per Run 3	209.604 ppb	106.909 %	115.492 %	11.657 ppb	49.396 ppb	102.468 %
Concentration RSD	1.8 %	5.3 %	7.8 %	3.8 %	1.9 %	4.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	67	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859770-5d10 6020TL	Rack	1		
Analysis started at:	12/5/2023 12:03:00 PM	Vial	42		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.516 %	108.112 %	0.003 ppb	4,238.616 ppb	1,075.248 ppb	33.453 ppb	118.306 ppb	1,698.334 ppb	100.862 %
Concentration per Run 1	95.830 %	108.175 %	0.000 ppb	4,125.968 ppb	1,024.086 ppb	34.581 ppb	116.308 ppb	1,739.356 ppb	100.960 %
Concentration per Run 2	94.315 %	105.513 %	0.009 ppb	4,338.572 ppb	1,124.588 ppb	37.709 ppb	111.527 ppb	1,708.651 ppb	100.539 %
Concentration per Run 3	93.404 %	110.647 %	0.002 ppb	4,251.306 ppb	1,077.069 ppb	28.070 ppb	127.082 ppb	1,646.997 ppb	101.088 %
Concentration RSD	1.3 %	2.4 %	128.5 %	2.5 %	4.7 %	14.7 %	6.7 %	2.8 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.139 ppb	0.411 ppb	2.975 ppb	45.847 ppb	0.038 ppb	0.321 ppb	0.072 ppb	0.108 ppb	110.085 %
Concentration per Run 1	0.183 ppb	0.442 ppb	2.335 ppb	43.768 ppb	0.039 ppb	0.332 ppb	0.113 ppb	0.086 ppb	109.939 %
Concentration per Run 2	0.123 ppb	0.368 ppb	3.347 ppb	46.962 ppb	0.038 ppb	0.343 ppb	0.050 ppb	0.119 ppb	109.915 %
Concentration per Run 3	0.113 ppb	0.422 ppb	3.244 ppb	46.812 ppb	0.036 ppb	0.289 ppb	0.052 ppb	0.118 ppb	110.403 %
Concentration RSD	27.1 %	9.2 %	18.7 %	3.9 %	4.0 %	9.0 %	49.4 %	17.3 %	0.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.054 ppb	0.127 ppb	8.442 ppb	2.226 ppb	99.198 %	0.001 ppb	0.000 ppb	102.876 %	3.559 ppb
Concentration per Run 1	-0.077 ppb	-0.036 ppb	8.559 ppb	2.158 ppb	95.476 %	0.001 ppb	-0.002 ppb	100.781 %	3.616 ppb
Concentration per Run 2	-0.076 ppb	0.112 ppb	8.344 ppb	2.078 ppb	100.698 %	0.000 ppb	-0.002 ppb	102.240 %	3.639 ppb
Concentration per Run 3	-0.009 ppb	0.306 ppb	8.423 ppb	2.443 ppb	101.420 %	0.001 ppb	0.004 ppb	105.606 %	3.422 ppb
Concentration RSD	72.2 %	134.7 %	1.3 %	8.6 %	3.3 %	113.8 %	4,962.6 %	2.4 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	5.942 ppb	98.878 %	101.760 %	0.032 ppb	0.090 ppb	100.897 %
Concentration per Run 1	5.736 ppb	99.175 %	100.649 %	0.026 ppb	0.092 ppb	105.364 %
Concentration per Run 2	5.851 ppb	99.038 %	102.522 %	0.038 ppb	0.091 ppb	99.425 %
Concentration per Run 3	6.238 ppb	98.422 %	102.110 %	0.031 ppb	0.087 ppb	97.901 %
Concentration RSD	4.4 %	0.4 %	1.0 %	20.0 %	2.8 %	3.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 68
Analysis label: WG1859770-6d5 6020TL
Analysis started at: 12/5/2023 12:07:38 PM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 43
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.810 %	109.379 %	0.010 ppb	9,927.970 ppb	2,168.979 ppb	68.619 ppb	256.447 ppb	3,419.007 ppb	99.914 %
Concentration per Run 1	98.518 %	107.795 %	0.011 ppb	9,863.003 ppb	2,163.890 ppb	72.240 ppb	260.197 ppb	3,537.875 ppb	100.792 %
Concentration per Run 2	95.697 %	110.837 %	0.010 ppb	9,994.235 ppb	2,181.023 ppb	69.000 ppb	248.094 ppb	3,385.046 ppb	100.124 %
Concentration per Run 3	93.214 %	109.506 %	0.008 ppb	9,926.672 ppb	2,162.023 ppb	64.615 ppb	261.049 ppb	3,334.098 ppb	98.827 %
Concentration RSD	2.8 %	1.4 %	13.9 %	0.7 %	0.5 %	5.6 %	2.8 %	3.1 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.304 ppb	0.908 ppb	6.167 ppb	89.015 ppb	0.078 ppb	0.507 ppb	0.218 ppb	0.252 ppb	106.696 %
Concentration per Run 1	0.184 ppb	0.880 ppb	5.625 ppb	83.747 ppb	0.089 ppb	0.525 ppb	0.264 ppb	0.238 ppb	104.986 %
Concentration per Run 2	0.166 ppb	0.889 ppb	6.326 ppb	87.702 ppb	0.075 ppb	0.508 ppb	0.212 ppb	0.230 ppb	110.270 %
Concentration per Run 3	0.560 ppb	0.955 ppb	6.551 ppb	95.595 ppb	0.069 ppb	0.486 ppb	0.178 ppb	0.286 ppb	104.832 %
Concentration RSD	73.2 %	4.5 %	7.8 %	6.8 %	13.5 %	3.8 %	19.7 %	12.0 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.007 ppb	-0.086 ppb	17.296 ppb	0.810 ppb	100.707 %	0.000 ppb	0.005 ppb	103.009 %	1.456 ppb
Concentration per Run 1	-0.038 ppb	-0.094 ppb	17.591 ppb	0.724 ppb	97.757 %	-0.001 ppb	0.000 ppb	103.996 %	1.289 ppb
Concentration per Run 2	-0.050 ppb	-0.076 ppb	16.738 ppb	0.800 ppb	103.056 %	0.000 ppb	0.006 ppb	101.527 %	1.480 ppb
Concentration per Run 3	0.109 ppb	-0.088 ppb	17.559 ppb	0.906 ppb	101.307 %	0.002 ppb	0.011 ppb	103.505 %	1.597 ppb
Concentration RSD	1,243.1 %	10.5 %	2.8 %	11.3 %	2.7 %	1,126.2 %	100.1 %	1.3 %	10.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	11.724 ppb	100.304 %	103.332 %	0.012 ppb	0.151 ppb	100.514 %
Concentration per Run 1	11.685 ppb	99.138 %	104.249 %	0.008 ppb	0.145 ppb	103.885 %
Concentration per Run 2	11.619 ppb	99.443 %	102.718 %	0.014 ppb	0.152 ppb	99.848 %
Concentration per Run 3	11.868 ppb	102.332 %	103.028 %	0.014 ppb	0.156 ppb	97.808 %
Concentration RSD	1.1 %	1.8 %	0.8 %	28.7 %	3.7 %	3.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	69	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-04 6020TL	Rack	1		
Analysis started at:	12/5/2023 12:12:17 PM	Vial	39		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.469 %	99.493 %	0.030 ppb	53,142.853 ppb	11,198.689 ppb	394.203 ppb	1,349.600 ppb	18,040.631 ppb	98.094 %
Concentration per Run 1	94.201 %	96.198 %	0.031 ppb	53,369.874 ppb	11,202.920 ppb	397.277 ppb	1,348.037 ppb	18,287.498 ppb	101.074 %
Concentration per Run 2	90.141 %	106.464 %	0.032 ppb	51,950.907 ppb	10,808.913 ppb	366.632 ppb	1,359.097 ppb	17,908.762 ppb	96.896 %
Concentration per Run 3	87.066 %	95.817 %	0.026 ppb	54,107.778 ppb	11,584.235 ppb	418.699 ppb	1,341.667 ppb	17,925.633 ppb	96.313 %
Concentration RSD	4.0 %	6.1 %	11.6 %	2.1 %	3.5 %	6.6 %	0.7 %	1.2 %	2.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.332 ppb	4.690 ppb	30.181 ppb	451.847 ppb	0.400 ppb	2.722 ppb	0.946 ppb	1.725 ppb	109.071 %
Concentration per Run 1	1.672 ppb	4.489 ppb	29.926 ppb	465.471 ppb	0.413 ppb	2.792 ppb	1.059 ppb	1.762 ppb	106.440 %
Concentration per Run 2	1.122 ppb	4.706 ppb	29.581 ppb	442.573 ppb	0.410 ppb	2.526 ppb	0.839 ppb	1.670 ppb	110.589 %
Concentration per Run 3	1.202 ppb	4.876 ppb	31.037 ppb	447.497 ppb	0.378 ppb	2.849 ppb	0.940 ppb	1.744 ppb	110.183 %
Concentration RSD	22.3 %	4.1 %	2.5 %	2.7 %	4.9 %	6.3 %	11.6 %	2.8 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.135 ppb	0.397 ppb	89.758 ppb	0.902 ppb	96.672 %	0.002 ppb	0.020 ppb	105.116 %	1.016 ppb
Concentration per Run 1	0.234 ppb	0.363 ppb	87.887 ppb	0.877 ppb	94.295 %	0.004 ppb	0.015 ppb	100.100 %	0.990 ppb
Concentration per Run 2	0.265 ppb	0.319 ppb	94.102 ppb	0.888 ppb	98.734 %	0.002 ppb	0.028 ppb	110.418 %	1.023 ppb
Concentration per Run 3	-0.095 ppb	0.508 ppb	87.284 ppb	0.943 ppb	96.988 %	0.001 ppb	0.017 ppb	104.830 %	1.034 ppb
Concentration RSD	148.2 %	25.0 %	4.2 %	3.9 %	2.3 %	54.2 %	35.3 %	4.9 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.730 ppb	100.773 %	105.446 %	0.023 ppb	0.773 ppb	97.113 %
Concentration per Run 1	59.198 ppb	98.529 %	99.833 %	0.016 ppb	0.767 ppb	97.493 %
Concentration per Run 2	58.696 ppb	101.943 %	110.446 %	0.029 ppb	0.771 ppb	98.839 %
Concentration per Run 3	58.296 ppb	101.848 %	106.060 %	0.024 ppb	0.782 ppb	95.007 %
Concentration RSD	0.8 %	1.9 %	5.1 %	30.2 %	1.0 %	2.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	70	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2371255-01 6020TL	Rack	2		
Analysis started at:	12/5/2023 12:16:55 PM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.149 %	107.161 %	0.059 ppb	159,687.956 ppb	5,453.978 ppb	962.170 ppb	32,002.590 ppb	33,728.694 ppb	102.141 %
Concentration per Run 1	92.018 %	99.430 %	0.060 ppb	169,539.351 ppb	5,868.574 ppb	1,015.841 ppb	32,892.287 ppb	36,157.172 ppb	104.138 %
Concentration per Run 2	89.907 %	103.802 %	0.055 ppb	166,003.600 ppb	5,674.821 ppb	1,040.745 ppb	36,728.033 ppb	36,263.552 ppb	102.565 %
Concentration per Run 3	85.521 %	118.251 %	0.062 ppb	143,520.916 ppb	4,818.540 ppb	829.925 ppb	26,387.451 ppb	28,765.358 ppb	99.721 %
Concentration RSD	3.7 %	9.2 %	5.6 %	8.8 %	10.2 %	12.0 %	16.3 %	12.7 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	14.509 ppb	14.161 ppb	22.485 ppb	1,283.376 ppb	0.945 ppb	2.242 ppb	7.916 ppb	20.486 ppb	122.593 %
Concentration per Run 1	15.034 ppb	15.072 ppb	23.010 ppb	1,406.331 ppb	1.006 ppb	2.478 ppb	8.654 ppb	22.045 ppb	109.879 %
Concentration per Run 2	14.969 ppb	14.761 ppb	25.111 ppb	1,324.717 ppb	0.956 ppb	2.156 ppb	8.118 ppb	21.326 ppb	120.582 %
Concentration per Run 3	13.525 ppb	12.651 ppb	19.334 ppb	1,119.080 ppb	0.872 ppb	2.092 ppb	6.976 ppb	18.088 ppb	137.317 %
Concentration RSD	5.9 %	9.3 %	13.0 %	11.5 %	7.1 %	9.2 %	10.8 %	10.3 %	11.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.747 ppb	1.342 ppb	417.782 ppb	9.279 ppb	94.847 %	0.017 ppb	0.015 ppb	101.558 %	1.730 ppb
Concentration per Run 1	4.083 ppb	1.456 ppb	427.448 ppb	9.827 ppb	93.282 %	0.017 ppb	0.018 ppb	98.139 %	1.679 ppb
Concentration per Run 2	4.109 ppb	1.648 ppb	440.856 ppb	9.137 ppb	96.730 %	0.018 ppb	0.011 ppb	104.111 %	1.783 ppb
Concentration per Run 3	3.050 ppb	0.923 ppb	385.042 ppb	8.872 ppb	94.529 %	0.015 ppb	0.017 ppb	102.424 %	1.728 ppb
Concentration RSD	16.1 %	28.0 %	7.0 %	5.3 %	1.8 %	8.1 %	23.7 %	3.0 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	18.338 ppb	99.088 %	106.011 %	0.026 ppb	7.164 ppb	95.214 %
Concentration per Run 1	18.088 ppb	97.931 %	102.828 %	0.022 ppb	7.065 ppb	96.192 %
Concentration per Run 2	18.359 ppb	99.967 %	108.452 %	0.028 ppb	7.155 ppb	97.189 %
Concentration per Run 3	18.567 ppb	99.365 %	106.754 %	0.029 ppb	7.273 ppb	92.261 %
Concentration RSD	1.3 %	1.1 %	2.7 %	15.2 %	1.5 %	2.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 71
Analysis label: I2371255-02 6020TL
Analysis started at: 12/5/2023 12:21:33 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 4
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.100 %	91.318 %	0.009 ppb	920,415.491 ppb	130,507.157 ppb	90.407 ppb	38,448.816 ppb	98,875.021 ppb	99.486 %
Concentration per Run 1	99.284 %	88.593 %	0.011 ppb	944,250.088 ppb	134,263.208 ppb	91.721 ppb	39,516.562 ppb	100,056.906 ppb	101.798 %
Concentration per Run 2	93.856 %	95.247 %	0.009 ppb	870,497.310 ppb	124,152.543 ppb	93.533 ppb	37,628.606 ppb	97,346.616 ppb	98.097 %
Concentration per Run 3	92.161 %	90.114 %	0.007 ppb	946,499.077 ppb	133,105.721 ppb	85.967 ppb	38,201.279 ppb	99,221.541 ppb	98.565 %
Concentration RSD	3.9 %	3.8 %	20.1 %	4.7 %	4.2 %	4.4 %	2.5 %	1.4 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.336 ppb	2.455 ppb	2,636.414 ppb	563.357 ppb	1.877 ppb	46.409 ppb	2.391 ppb	19.213 ppb	98.945 %
Concentration per Run 1	0.277 ppb	2.467 ppb	2,812.261 ppb	582.105 ppb	1.904 ppb	48.809 ppb	2.332 ppb	20.115 ppb	95.567 %
Concentration per Run 2	0.364 ppb	2.387 ppb	2,645.839 ppb	550.085 ppb	1.856 ppb	44.574 ppb	2.298 ppb	18.637 ppb	99.882 %
Concentration per Run 3	0.368 ppb	2.511 ppb	2,451.143 ppb	557.881 ppb	1.872 ppb	45.844 ppb	2.542 ppb	18.885 ppb	101.385 %
Concentration RSD	15.2 %	2.6 %	6.9 %	3.0 %	1.3 %	4.7 %	5.5 %	4.1 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.547 ppb	1.139 ppb	1,094.115 ppb	11.738 ppb	80.102 %	0.003 ppb	0.088 ppb	89.296 %	0.699 ppb
Concentration per Run 1	0.652 ppb	0.831 ppb	1,102.583 ppb	11.375 ppb	78.916 %	0.002 ppb	0.101 ppb	87.194 %	0.708 ppb
Concentration per Run 2	0.539 ppb	1.687 ppb	1,089.825 ppb	11.688 ppb	80.698 %	0.003 ppb	0.085 ppb	90.155 %	0.690 ppb
Concentration per Run 3	0.449 ppb	0.900 ppb	1,089.936 ppb	12.152 ppb	80.691 %	0.004 ppb	0.080 ppb	90.539 %	0.699 ppb
Concentration RSD	18.5 %	41.7 %	0.7 %	3.3 %	1.3 %	35.5 %	12.2 %	2.0 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	189.831 ppb	89.639 %	93.647 %	0.013 ppb	0.739 ppb	82.815 %
Concentration per Run 1	191.457 ppb	85.150 %	90.999 %	0.005 ppb	0.723 ppb	84.112 %
Concentration per Run 2	185.208 ppb	92.800 %	94.141 %	0.014 ppb	0.744 ppb	82.623 %
Concentration per Run 3	192.829 ppb	90.967 %	95.801 %	0.020 ppb	0.749 ppb	81.711 %
Concentration RSD	2.1 %	4.5 %	2.6 %	57.1 %	1.9 %	1.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	72	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 12:26:12 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.747 %	100.887 %	59.562 ppb	6,127.853 ppb	6,115.718 ppb	63.181 ppb	6,011.951 ppb	5,878.761 ppb	113.446 %
Concentration per Run 1	106.349 %	106.844 %	58.379 ppb	6,339.894 ppb	5,822.686 ppb	58.771 ppb	5,922.203 ppb	5,724.361 ppb	113.531 %
Concentration per Run 2	105.329 %	97.148 %	59.679 ppb	5,640.247 ppb	6,364.905 ppb	62.515 ppb	6,170.053 ppb	5,871.080 ppb	113.816 %
Concentration per Run 3	102.562 %	98.669 %	60.627 ppb	6,403.417 ppb	6,159.564 ppb	68.257 ppb	5,943.595 ppb	6,040.843 ppb	112.991 %
Recovery Percentage 1			99.269 %	102.131 %	101.929 %	105.302 %	100.199 %	97.979 %	
Concentration RSD	1.9 %	5.2 %	1.9 %	6.9 %	4.5 %	7.6 %	2.3 %	2.7 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.371 ppb	56.555 ppb	58.213 ppb	5,785.761 ppb	59.018 ppb	58.584 ppb	57.523 ppb	57.246 ppb	109.132 %
Concentration per Run 1	57.291 ppb	55.358 ppb	56.545 ppb	5,742.288 ppb	59.906 ppb	59.426 ppb	59.058 ppb	59.072 ppb	102.520 %
Concentration per Run 2	58.808 ppb	57.083 ppb	62.124 ppb	5,761.243 ppb	58.365 ppb	57.504 ppb	56.783 ppb	56.649 ppb	112.086 %
Concentration per Run 3	56.013 ppb	57.225 ppb	55.971 ppb	5,853.752 ppb	58.784 ppb	58.822 ppb	56.729 ppb	56.018 ppb	112.791 %
Recovery Percentage 1	95.618 %	94.259 %	97.022 %	96.429 %	98.364 %	97.640 %	95.872 %	95.411 %	
Concentration RSD	2.4 %	1.8 %	5.8 %	1.0 %	1.4 %	1.7 %	2.3 %	2.8 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	56.318 ppb	57.532 ppb	59.082 ppb	59.344 ppb	95.630 %	59.084 ppb	59.860 ppb	101.163 %	61.390 ppb
Concentration per Run 1	59.807 ppb	55.693 ppb	59.278 ppb	57.614 ppb	97.504 %	57.747 ppb	58.477 ppb	103.367 %	59.198 ppb
Concentration per Run 2	54.075 ppb	58.938 ppb	59.779 ppb	59.828 ppb	93.387 %	60.652 ppb	61.075 ppb	99.128 %	63.180 ppb
Concentration per Run 3	55.071 ppb	57.966 ppb	58.191 ppb	60.590 ppb	95.999 %	58.854 ppb	60.029 ppb	100.995 %	61.793 ppb
Recovery Percentage 1	93.863 %	95.887 %	98.471 %	98.907 %		98.474 %	99.767 %		102.317 %
Concentration RSD	5.4 %	2.9 %	1.4 %	2.6 %	2.2 %	2.5 %	2.2 %	2.1 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.013 ppb	99.498 %	103.607 %	56.628 ppb	54.656 ppb	100.871 %
Concentration per Run 1	58.567 ppb	99.593 %	104.686 %	49.382 ppb	49.270 ppb	110.397 %
Concentration per Run 2	62.883 ppb	99.220 %	103.296 %	57.729 ppb	55.441 ppb	98.053 %
Concentration per Run 3	61.589 ppb	99.681 %	102.839 %	62.774 ppb	59.258 ppb	94.163 %
Recovery Percentage 1	101.688 %			94.381 %	91.094 %	
Concentration RSD	3.6 %	0.2 %	0.9 %	11.9 %	9.2 %	8.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	73	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 12:30:54 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.138 %	103.676 %	0.009 ppb	51.365 ppb	-0.006 ppb	-0.025 ppb	1.069 ppb	-2.600 ppb	98.010 %
Concentration per Run 1	105.441 %	108.365 %	0.007 ppb	48.411 ppb	0.068 ppb	0.370 ppb	-6.539 ppb	-6.206 ppb	99.329 %
Concentration per Run 2	103.422 %	99.240 %	0.009 ppb	58.378 ppb	0.315 ppb	0.018 ppb	12.474 ppb	-4.137 ppb	98.659 %
Concentration per Run 3	97.550 %	103.422 %	0.009 ppb	47.307 ppb	-0.400 ppb	-0.461 ppb	-2.729 ppb	2.541 ppb	96.042 %
Recovery Percentage 1			1.704 %	51.365 %	-0.008 %	-0.246 %	1.069 %	-2.600 %	
Concentration RSD	4.0 %	4.4 %	13.5 %	11.9 %	6,509.0 %	1,698.5 %	941.3 %	175.8 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.021 ppb	0.000 ppb	0.058 ppb	10.533 ppb	-0.005 ppb	0.006 ppb	-0.020 ppb	0.117 ppb	104.682 %
Concentration per Run 1	-0.007 ppb	-0.019 ppb	-0.023 ppb	11.365 ppb	-0.002 ppb	0.041 ppb	-0.028 ppb	0.091 ppb	108.461 %
Concentration per Run 2	0.019 ppb	0.015 ppb	0.134 ppb	9.385 ppb	-0.009 ppb	-0.011 ppb	-0.017 ppb	0.102 ppb	104.824 %
Concentration per Run 3	0.050 ppb	0.003 ppb	0.062 ppb	10.848 ppb	-0.004 ppb	-0.010 ppb	-0.013 ppb	0.157 ppb	100.761 %
Recovery Percentage 1	0.411 %	-0.033 %	5.783 %	21.065 %	-1.019 %	0.325 %	-1.966 %	2.338 %	
Concentration RSD	138.0 %	5,296.7 %	135.8 %	9.7 %	64.2 %	457.1 %	40.0 %	30.4 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.011 ppb	0.374 ppb	0.005 ppb	0.985 ppb	98.389 %	0.005 ppb	0.003 ppb	97.467 %	0.322 ppb
Concentration per Run 1	0.066 ppb	0.455 ppb	0.011 ppb	0.840 ppb	100.380 %	0.004 ppb	0.002 ppb	99.548 %	0.298 ppb
Concentration per Run 2	-0.090 ppb	0.169 ppb	0.000 ppb	0.991 ppb	96.498 %	0.006 ppb	0.006 ppb	98.042 %	0.306 ppb
Concentration per Run 3	0.057 ppb	0.498 ppb	0.004 ppb	1.124 ppb	98.290 %	0.003 ppb	0.000 ppb	94.810 %	0.362 ppb
Recovery Percentage 1	2.215 %	7.479 %	0.052 %	49.258 %		1.154 %	1.306 %		8.040 %
Concentration RSD	791.8 %	47.8 %	105.3 %	14.4 %	2.0 %	35.6 %	112.6 %	2.5 %	10.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.032 ppb	95.163 %	99.968 %	0.419 ppb	0.014 ppb	100.324 %
Concentration per Run 1	0.026 ppb	96.548 %	100.480 %	0.319 ppb	0.014 ppb	110.417 %
Concentration per Run 2	0.041 ppb	94.275 %	98.353 %	0.490 ppb	0.016 ppb	97.855 %
Concentration per Run 3	0.028 ppb	94.665 %	101.071 %	0.448 ppb	0.013 ppb	92.701 %
Recovery Percentage 1	6.316 %			41.904 %	1.434 %	
Concentration RSD	24.6 %	1.3 %	1.4 %	21.2 %	8.8 %	9.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	74	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-11 6020TL	Rack	1		
Analysis started at:	12/5/2023 12:37:50 PM	Vial	57		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.179 %	106.654 %	0.007 ppb	30.354 ppb	2.457 ppb	1.487 ppb	-3.456 ppb	52.135 ppb	100.248 %
Concentration per Run 1	102.439 %	110.456 %	0.009 ppb	29.988 ppb	3.342 ppb	1.483 ppb	-8.988 ppb	50.563 ppb	99.913 %
Concentration per Run 2	101.852 %	108.365 %	0.006 ppb	29.469 ppb	2.354 ppb	1.464 ppb	5.611 ppb	52.189 ppb	102.444 %
Concentration per Run 3	99.247 %	101.141 %	0.005 ppb	31.606 ppb	1.675 ppb	1.514 ppb	-6.990 ppb	53.654 ppb	98.389 %
Concentration RSD	1.7 %	4.6 %	25.2 %	3.7 %	34.1 %	1.7 %	229.0 %	3.0 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.038 ppb	0.180 ppb	-0.006 ppb	5.489 ppb	-0.002 ppb	0.028 ppb	0.020 ppb	-0.030 ppb	112.894 %
Concentration per Run 1	-0.039 ppb	0.146 ppb	0.012 ppb	4.772 ppb	-0.003 ppb	0.022 ppb	0.018 ppb	-0.045 ppb	121.818 %
Concentration per Run 2	-0.036 ppb	0.206 ppb	-0.014 ppb	4.879 ppb	-0.004 ppb	0.015 ppb	0.005 ppb	-0.007 ppb	113.208 %
Concentration per Run 3	-0.039 ppb	0.190 ppb	-0.017 ppb	6.815 ppb	0.000 ppb	0.046 ppb	0.036 ppb	-0.038 ppb	103.655 %
Concentration RSD	4.3 %	17.4 %	251.0 %	21.0 %	74.6 %	58.5 %	80.9 %	66.3 %	8.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.177 ppb	-0.051 ppb	0.031 ppb	0.256 ppb	98.344 %	0.001 ppb	-0.001 ppb	98.832 %	0.206 ppb
Concentration per Run 1	-0.171 ppb	-0.010 ppb	0.025 ppb	0.246 ppb	98.547 %	0.001 ppb	0.000 ppb	99.186 %	0.174 ppb
Concentration per Run 2	-0.226 ppb	-0.099 ppb	0.027 ppb	0.293 ppb	97.711 %	0.001 ppb	-0.002 ppb	98.917 %	0.219 ppb
Concentration per Run 3	-0.136 ppb	-0.045 ppb	0.040 ppb	0.230 ppb	98.774 %	0.001 ppb	0.000 ppb	98.394 %	0.225 ppb
Concentration RSD	25.6 %	88.1 %	25.0 %	12.6 %	0.6 %	24.5 %	183.9 %	0.4 %	13.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.135 ppb	98.117 %	101.433 %	0.079 ppb	0.012 ppb	99.563 %
Concentration per Run 1	0.064 ppb	100.009 %	103.298 %	0.049 ppb	0.012 ppb	101.658 %
Concentration per Run 2	0.158 ppb	96.622 %	100.651 %	0.092 ppb	0.010 ppb	99.085 %
Concentration per Run 3	0.183 ppb	97.719 %	100.348 %	0.094 ppb	0.013 ppb	97.947 %
Concentration RSD	46.3 %	1.8 %	1.6 %	32.6 %	10.8 %	1.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	75	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859770-7d10 6020TL	Rack	1		
Analysis started at:	12/5/2023 12:42:31 PM	Vial	45		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.976 %	103.802 %	5.213 ppb	3,686.905 ppb	2,482.129 ppb	221.086 ppb	1,842.624 ppb	6,253.737 ppb	99.638 %
Concentration per Run 1	100.220 %	106.464 %	5.082 ppb	3,516.691 ppb	2,423.804 ppb	229.874 ppb	1,859.814 ppb	6,388.184 ppb	101.717 %
Concentration per Run 2	97.435 %	105.133 %	5.259 ppb	3,671.541 ppb	2,429.297 ppb	218.379 ppb	1,785.427 ppb	5,950.529 ppb	100.039 %
Concentration per Run 3	93.272 %	99.810 %	5.298 ppb	3,872.485 ppb	2,593.287 ppb	215.003 ppb	1,882.630 ppb	6,422.498 ppb	97.158 %
Concentration RSD	3.6 %	3.4 %	2.2 %	4.8 %	3.9 %	3.5 %	2.8 %	4.2 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.672 ppb	20.260 ppb	51.266 ppb	121.784 ppb	50.429 ppb	50.098 ppb	25.146 ppb	48.861 ppb	99.549 %
Concentration per Run 1	47.637 ppb	19.731 ppb	48.633 ppb	115.034 ppb	48.409 ppb	48.267 ppb	24.502 ppb	47.372 ppb	100.929 %
Concentration per Run 2	47.947 ppb	19.846 ppb	52.017 ppb	124.859 ppb	50.704 ppb	50.387 ppb	25.212 ppb	49.479 ppb	99.621 %
Concentration per Run 3	50.433 ppb	21.202 ppb	53.147 ppb	125.460 ppb	52.174 ppb	51.641 ppb	25.722 ppb	49.732 ppb	98.097 %
Concentration RSD	3.1 %	4.0 %	4.6 %	4.8 %	3.8 %	3.4 %	2.4 %	2.7 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.033 ppb	10.337 ppb	117.359 ppb	93.516 ppb	96.532 %	4.832 ppb	5.123 ppb	99.890 %	34.810 ppb
Concentration per Run 1	12.669 ppb	10.727 ppb	116.927 ppb	91.277 ppb	96.077 %	4.799 ppb	4.924 ppb	100.483 %	34.197 ppb
Concentration per Run 2	11.762 ppb	10.461 ppb	115.802 ppb	93.831 ppb	96.189 %	5.033 ppb	5.104 ppb	97.058 %	35.235 ppb
Concentration per Run 3	11.669 ppb	9.825 ppb	119.349 ppb	95.438 ppb	97.331 %	4.664 ppb	5.340 ppb	102.127 %	34.996 ppb
Concentration RSD	4.6 %	4.5 %	1.5 %	2.2 %	0.7 %	3.9 %	4.1 %	2.6 %	1.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	222.422 ppb	96.539 %	99.610 %	11.805 ppb	47.574 ppb	98.500 %
Concentration per Run 1	218.190 ppb	97.908 %	100.185 %	10.990 ppb	44.908 ppb	103.997 %
Concentration per Run 2	228.268 ppb	94.796 %	99.115 %	11.880 ppb	48.305 ppb	96.464 %
Concentration per Run 3	220.810 ppb	96.913 %	99.530 %	12.545 ppb	49.508 ppb	95.038 %
Concentration RSD	2.4 %	1.6 %	0.5 %	6.6 %	5.0 %	4.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	76	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859770-8d10 6020TL	Rack	1		
Analysis started at:	12/5/2023 12:47:10 PM	Vial	46		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.596 %	99.113 %	5.224 ppb	3,803.807 ppb	2,509.850 ppb	233.489 ppb	1,939.806 ppb	6,594.040 ppb	97.689 %
Concentration per Run 1	95.624 %	98.289 %	5.171 ppb	3,798.057 ppb	2,464.731 ppb	228.243 ppb	1,895.953 ppb	6,507.801 ppb	97.321 %
Concentration per Run 2	95.218 %	96.578 %	5.340 ppb	3,836.240 ppb	2,542.462 ppb	235.105 ppb	1,978.303 ppb	6,864.978 ppb	97.866 %
Concentration per Run 3	92.944 %	102.472 %	5.159 ppb	3,777.125 ppb	2,522.357 ppb	237.120 ppb	1,945.163 ppb	6,409.340 ppb	97.881 %
Concentration RSD	1.5 %	3.1 %	1.9 %	0.8 %	1.6 %	2.0 %	2.1 %	3.6 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.857 ppb	20.342 ppb	50.510 ppb	125.024 ppb	50.912 ppb	49.584 ppb	25.051 ppb	48.745 ppb	100.843 %
Concentration per Run 1	47.412 ppb	20.137 ppb	50.347 ppb	122.385 ppb	49.290 ppb	48.774 ppb	24.844 ppb	47.887 ppb	103.401 %
Concentration per Run 2	49.968 ppb	21.021 ppb	51.133 ppb	135.544 ppb	54.971 ppb	52.635 ppb	26.147 ppb	51.267 ppb	91.818 %
Concentration per Run 3	46.192 ppb	19.867 ppb	50.051 ppb	117.144 ppb	48.475 ppb	47.344 ppb	24.160 ppb	47.082 ppb	107.311 %
Concentration RSD	4.0 %	3.0 %	1.1 %	7.6 %	7.0 %	5.5 %	4.0 %	4.6 %	8.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.917 ppb	9.978 ppb	115.115 ppb	94.192 ppb	97.518 %	4.818 ppb	5.057 ppb	101.145 %	38.828 ppb
Concentration per Run 1	11.571 ppb	10.476 ppb	113.818 ppb	92.224 ppb	97.584 %	4.833 ppb	5.178 ppb	101.417 %	39.147 ppb
Concentration per Run 2	12.757 ppb	10.142 ppb	115.437 ppb	96.048 ppb	96.058 %	4.858 ppb	5.002 ppb	95.465 %	39.269 ppb
Concentration per Run 3	11.424 ppb	9.317 ppb	116.091 ppb	94.302 ppb	98.913 %	4.762 ppb	4.991 ppb	106.553 %	38.068 ppb
Concentration RSD	6.1 %	6.0 %	1.0 %	2.0 %	1.5 %	1.0 %	2.1 %	5.5 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	220.801 ppb	97.593 %	99.909 %	11.939 ppb	48.706 ppb	96.487 %
Concentration per Run 1	218.482 ppb	98.913 %	100.455 %	11.217 ppb	46.839 ppb	101.335 %
Concentration per Run 2	224.522 ppb	93.020 %	97.875 %	12.270 ppb	49.552 ppb	93.337 %
Concentration per Run 3	219.398 ppb	100.848 %	101.398 %	12.330 ppb	49.727 ppb	94.789 %
Concentration RSD	1.5 %	4.2 %	1.8 %	5.2 %	3.3 %	4.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 77
Analysis label: xWG1859770-9d10 6020TL
Analysis started at: 12/5/2023 12:51:49 PM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 47
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.804 %	102.915 %	0.005 ppb	2,901.234 ppb	1,513.367 ppb	15.045 ppb	895.641 ppb	5,692.421 ppb	98.017 %
Concentration per Run 1	98.555 %	97.338 %	0.008 ppb	3,000.022 ppb	1,566.463 ppb	15.269 ppb	971.740 ppb	5,741.838 ppb	99.798 %
Concentration per Run 2	94.994 %	102.281 %	0.003 ppb	2,874.568 ppb	1,496.871 ppb	15.972 ppb	847.505 ppb	5,555.915 ppb	96.648 %
Concentration per Run 3	93.862 %	109.126 %	0.005 ppb	2,829.111 ppb	1,476.767 ppb	13.894 ppb	867.677 ppb	5,779.511 ppb	97.604 %
Concentration RSD	2.6 %	5.8 %	52.6 %	3.1 %	3.1 %	7.0 %	7.4 %	2.1 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.076 ppb	0.378 ppb	0.947 ppb	20.000 ppb	0.048 ppb	0.424 ppb	0.150 ppb	0.028 ppb	102.675 %
Concentration per Run 1	0.034 ppb	0.391 ppb	0.930 ppb	21.012 ppb	0.046 ppb	0.426 ppb	0.230 ppb	0.024 ppb	105.489 %
Concentration per Run 2	0.043 ppb	0.329 ppb	0.864 ppb	21.123 ppb	0.045 ppb	0.372 ppb	0.128 ppb	0.047 ppb	100.359 %
Concentration per Run 3	0.152 ppb	0.413 ppb	1.046 ppb	17.864 ppb	0.052 ppb	0.474 ppb	0.093 ppb	0.013 ppb	102.178 %
Concentration RSD	86.3 %	11.5 %	9.7 %	9.3 %	7.4 %	12.0 %	47.4 %	63.0 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.107 ppb	-0.013 ppb	22.287 ppb	1.868 ppb	97.713 %	0.005 ppb	0.004 ppb	100.341 %	2.523 ppb
Concentration per Run 1	0.134 ppb	-0.062 ppb	22.143 ppb	1.828 ppb	98.964 %	0.005 ppb	0.002 ppb	98.730 %	2.595 ppb
Concentration per Run 2	0.045 ppb	-0.045 ppb	21.461 ppb	1.931 ppb	96.401 %	0.003 ppb	0.006 ppb	98.138 %	2.464 ppb
Concentration per Run 3	0.142 ppb	0.069 ppb	23.257 ppb	1.845 ppb	97.775 %	0.005 ppb	0.004 ppb	104.153 %	2.511 ppb
Concentration RSD	50.4 %	562.7 %	4.1 %	2.9 %	1.3 %	27.2 %	51.3 %	3.3 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	26.599 ppb	95.528 %	100.850 %	0.045 ppb	0.023 ppb	97.537 %
Concentration per Run 1	27.110 ppb	95.061 %	101.167 %	0.036 ppb	0.025 ppb	101.012 %
Concentration per Run 2	27.590 ppb	94.326 %	98.829 %	0.048 ppb	0.021 ppb	94.503 %
Concentration per Run 3	25.097 ppb	97.197 %	102.555 %	0.051 ppb	0.021 ppb	97.096 %
Concentration RSD	5.0 %	1.6 %	1.9 %	17.9 %	10.6 %	3.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 78
Analysis label: WG1859770-10d5 6020TL
Analysis started at: 12/5/2023 12:56:29 PM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 48
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.522 %	106.908 %	0.007 ppb	5,724.131 ppb	2,717.006 ppb	24.820 ppb	1,621.585 ppb	10,144.988 ppb	101.466 %
Concentration per Run 1	100.713 %	105.513 %	0.003 ppb	6,037.145 ppb	2,708.474 ppb	27.320 ppb	1,644.921 ppb	10,259.069 ppb	102.710 %
Concentration per Run 2	97.815 %	108.745 %	0.005 ppb	4,988.491 ppb	2,651.821 ppb	23.175 ppb	1,567.015 ppb	10,018.188 ppb	102.692 %
Concentration per Run 3	94.039 %	106.464 %	0.012 ppb	6,146.757 ppb	2,790.725 ppb	23.965 ppb	1,652.819 ppb	10,157.706 ppb	98.995 %
Concentration RSD	3.4 %	1.6 %	68.4 %	11.2 %	2.6 %	8.9 %	2.9 %	1.2 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.137 ppb	0.721 ppb	1.789 ppb	33.668 ppb	0.085 ppb	0.610 ppb	0.259 ppb	0.174 ppb	104.738 %
Concentration per Run 1	0.112 ppb	0.784 ppb	1.912 ppb	33.159 ppb	0.085 ppb	0.702 ppb	0.204 ppb	0.165 ppb	102.527 %
Concentration per Run 2	0.175 ppb	0.727 ppb	1.850 ppb	34.489 ppb	0.092 ppb	0.569 ppb	0.266 ppb	0.198 ppb	97.529 %
Concentration per Run 3	0.124 ppb	0.652 ppb	1.603 ppb	33.356 ppb	0.078 ppb	0.558 ppb	0.306 ppb	0.160 ppb	114.159 %
Concentration RSD	24.5 %	9.2 %	9.1 %	2.1 %	8.2 %	13.1 %	19.9 %	11.9 %	8.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.011 ppb	-0.013 ppb	40.242 ppb	0.622 ppb	98.476 %	0.009 ppb	0.007 ppb	100.025 %	0.990 ppb
Concentration per Run 1	0.128 ppb	-0.034 ppb	42.128 ppb	0.615 ppb	94.622 %	0.007 ppb	0.008 ppb	100.115 %	1.010 ppb
Concentration per Run 2	0.039 ppb	-0.151 ppb	39.570 ppb	0.598 ppb	97.384 %	0.012 ppb	0.004 ppb	94.649 %	0.996 ppb
Concentration per Run 3	-0.133 ppb	0.146 ppb	39.027 ppb	0.652 ppb	103.422 %	0.008 ppb	0.011 ppb	105.311 %	0.965 ppb
Concentration RSD	1,185.9 %	1,153.6 %	4.1 %	4.5 %	4.6 %	26.7 %	44.7 %	5.3 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	48.529 ppb	96.680 %	99.042 %	0.023 ppb	0.027 ppb	98.247 %
Concentration per Run 1	50.288 ppb	95.856 %	99.245 %	0.009 ppb	0.031 ppb	103.295 %
Concentration per Run 2	47.534 ppb	92.850 %	95.891 %	0.028 ppb	0.024 ppb	92.307 %
Concentration per Run 3	47.764 ppb	101.336 %	101.991 %	0.032 ppb	0.025 ppb	99.138 %
Concentration RSD	3.1 %	4.5 %	3.1 %	53.8 %	14.5 %	5.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	79	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2371040-03 6020TL	Rack	1		
Analysis started at:	12/5/2023 1:01:09 PM	Vial	44		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.263 %	104.309 %	0.009 ppb	33,085.836 ppb	14,852.807 ppb	138.261 ppb	8,973.714 ppb	56,296.544 ppb	101.725 %
Concentration per Run 1	94.313 %	101.521 %	0.008 ppb	33,551.096 ppb	15,403.557 ppb	156.614 ppb	9,107.162 ppb	58,280.772 ppb	100.723 %
Concentration per Run 2	94.320 %	94.677 %	0.007 ppb	35,034.971 ppb	15,586.597 ppb	139.154 ppb	9,225.554 ppb	56,173.026 ppb	105.028 %
Concentration per Run 3	91.155 %	116.730 %	0.013 ppb	30,671.440 ppb	13,568.266 ppb	119.013 ppb	8,588.426 ppb	54,435.834 ppb	99.425 %
Concentration RSD	2.0 %	10.8 %	34.7 %	6.7 %	7.5 %	13.6 %	3.8 %	3.4 %	2.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.501 ppb	4.137 ppb	9.856 ppb	179.817 ppb	0.539 ppb	2.944 ppb	1.729 ppb	1.209 ppb	102.826 %
Concentration per Run 1	0.521 ppb	4.130 ppb	9.493 ppb	180.521 ppb	0.565 ppb	2.891 ppb	1.754 ppb	1.212 ppb	102.569 %
Concentration per Run 2	0.436 ppb	4.244 ppb	9.897 ppb	184.997 ppb	0.524 ppb	3.120 ppb	1.810 ppb	1.275 ppb	101.123 %
Concentration per Run 3	0.546 ppb	4.036 ppb	10.178 ppb	173.933 ppb	0.528 ppb	2.820 ppb	1.622 ppb	1.140 ppb	104.787 %
Concentration RSD	11.4 %	2.5 %	3.5 %	3.1 %	4.1 %	5.3 %	5.6 %	5.6 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.237 ppb	0.006 ppb	223.945 ppb	0.852 ppb	94.633 %	0.045 ppb	0.029 ppb	101.943 %	0.628 ppb
Concentration per Run 1	0.184 ppb	0.010 ppb	227.181 ppb	0.703 ppb	93.925 %	0.045 ppb	0.033 ppb	97.881 %	0.606 ppb
Concentration per Run 2	0.172 ppb	-0.036 ppb	214.448 ppb	0.815 ppb	94.309 %	0.044 ppb	0.025 ppb	98.112 %	0.640 ppb
Concentration per Run 3	0.355 ppb	0.043 ppb	230.206 ppb	1.037 ppb	95.664 %	0.045 ppb	0.029 ppb	109.836 %	0.638 ppb
Concentration RSD	43.2 %	698.0 %	3.7 %	20.0 %	1.0 %	0.7 %	13.6 %	6.7 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	260.017 ppb	97.577 %	100.654 %	0.021 ppb	0.121 ppb	93.379 %
Concentration per Run 1	273.711 ppb	95.250 %	100.639 %	0.014 ppb	0.114 ppb	96.456 %
Concentration per Run 2	252.751 ppb	95.986 %	95.715 %	0.022 ppb	0.122 ppb	90.570 %
Concentration per Run 3	253.588 ppb	101.496 %	105.609 %	0.026 ppb	0.128 ppb	93.110 %
Concentration RSD	4.6 %	3.5 %	4.9 %	27.7 %	5.9 %	3.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	80	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-01 6020TL	Rack	1		
Analysis started at:	12/5/2023 1:05:48 PM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.320 %	104.563 %	0.004 ppb	49,355.955 ppb	609.500 ppb	86.877 ppb	21,132.453 ppb	63,441.205 ppb	96.029 %
Concentration per Run 1	92.375 %	103.612 %	0.008 ppb	50,671.158 ppb	615.972 ppb	88.533 ppb	21,724.824 ppb	64,682.008 ppb	98.914 %
Concentration per Run 2	88.082 %	104.563 %	0.004 ppb	48,259.718 ppb	590.185 ppb	83.014 ppb	19,823.046 ppb	60,278.859 ppb	95.235 %
Concentration per Run 3	84.503 %	105.513 %	0.001 ppb	49,136.988 ppb	622.343 ppb	89.084 ppb	21,849.489 ppb	65,362.749 ppb	93.938 %
Concentration RSD	4.5 %	0.9 %	75.1 %	2.5 %	2.8 %	3.9 %	5.4 %	4.4 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.315 ppb	0.266 ppb	258.522 ppb	347.108 ppb	0.468 ppb	3.266 ppb	1.859 ppb	0.248 ppb	101.939 %
Concentration per Run 1	4.595 ppb	0.263 ppb	259.125 ppb	338.613 ppb	0.443 ppb	3.229 ppb	1.878 ppb	0.236 ppb	101.441 %
Concentration per Run 2	4.030 ppb	0.249 ppb	250.708 ppb	350.220 ppb	0.470 ppb	3.259 ppb	1.866 ppb	0.224 ppb	100.603 %
Concentration per Run 3	4.319 ppb	0.287 ppb	265.733 ppb	352.491 ppb	0.492 ppb	3.310 ppb	1.833 ppb	0.284 ppb	103.774 %
Concentration RSD	6.6 %	7.2 %	2.9 %	2.1 %	5.2 %	1.2 %	1.3 %	12.8 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.648 ppb	0.852 ppb	663.129 ppb	47.581 ppb	93.674 %	0.001 ppb	0.007 ppb	97.873 %	0.803 ppb
Concentration per Run 1	3.648 ppb	1.096 ppb	671.820 ppb	47.351 ppb	93.701 %	0.001 ppb	0.010 ppb	96.145 %	0.752 ppb
Concentration per Run 2	3.373 ppb	0.885 ppb	647.525 ppb	47.586 ppb	91.234 %	0.000 ppb	0.010 ppb	93.793 %	0.795 ppb
Concentration per Run 3	3.922 ppb	0.576 ppb	670.042 ppb	47.808 ppb	96.088 %	0.000 ppb	0.002 ppb	103.681 %	0.863 ppb
Concentration RSD	7.5 %	30.7 %	2.0 %	0.5 %	2.6 %	133.5 %	64.9 %	5.3 %	6.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	20.020 ppb	95.439 %	99.408 %	0.025 ppb	0.029 ppb	92.541 %
Concentration per Run 1	20.780 ppb	97.384 %	101.726 %	0.012 ppb	0.029 ppb	96.749 %
Concentration per Run 2	19.887 ppb	93.196 %	96.822 %	0.034 ppb	0.028 ppb	87.851 %
Concentration per Run 3	19.393 ppb	95.736 %	99.677 %	0.030 ppb	0.031 ppb	93.022 %
Concentration RSD	3.5 %	2.2 %	2.5 %	47.0 %	6.5 %	4.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	81	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-02 6020TL	Rack	1		
Analysis started at:	12/5/2023 1:10:26 PM	Vial	50		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.975 %	105.070 %	0.002 ppb	4,940.638 ppb	4,893.872 ppb	4.595 ppb	14,843.016 ppb	53,656.485 ppb	98.809 %
Concentration per Run 1	94.135 %	103.992 %	-0.001 ppb	4,919.658 ppb	4,864.933 ppb	4.544 ppb	14,686.352 ppb	52,311.405 ppb	99.655 %
Concentration per Run 2	92.390 %	103.992 %	0.002 ppb	5,046.001 ppb	4,870.834 ppb	4.619 ppb	14,910.637 ppb	54,219.755 ppb	98.765 %
Concentration per Run 3	89.399 %	107.224 %	0.003 ppb	4,856.255 ppb	4,945.849 ppb	4.622 ppb	14,932.057 ppb	54,438.294 ppb	98.008 %
Concentration RSD	2.6 %	1.8 %	144.3 %	2.0 %	0.9 %	1.0 %	0.9 %	2.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.284 ppb	2.032 ppb	0.167 ppb	7.002 ppb	0.311 ppb	0.186 ppb	1.138 ppb	2.873 ppb	105.010 %
Concentration per Run 1	0.323 ppb	1.966 ppb	0.168 ppb	6.080 ppb	0.339 ppb	0.186 ppb	1.210 ppb	2.856 ppb	104.902 %
Concentration per Run 2	0.298 ppb	2.055 ppb	0.133 ppb	6.917 ppb	0.301 ppb	0.222 ppb	1.161 ppb	2.830 ppb	103.559 %
Concentration per Run 3	0.231 ppb	2.074 ppb	0.199 ppb	8.010 ppb	0.293 ppb	0.149 ppb	1.042 ppb	2.935 ppb	106.570 %
Concentration RSD	16.8 %	2.8 %	19.7 %	13.8 %	7.8 %	19.7 %	7.6 %	1.9 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.293 ppb	0.279 ppb	236.662 ppb	7.384 ppb	95.410 %	0.000 ppb	0.000 ppb	103.315 %	0.543 ppb
Concentration per Run 1	0.397 ppb	0.105 ppb	233.923 ppb	7.616 ppb	95.005 %	-0.001 ppb	0.000 ppb	101.186 %	0.559 ppb
Concentration per Run 2	0.295 ppb	0.328 ppb	240.533 ppb	7.530 ppb	94.150 %	0.001 ppb	0.002 ppb	102.420 %	0.526 ppb
Concentration per Run 3	0.188 ppb	0.402 ppb	235.530 ppb	7.006 ppb	97.075 %	0.000 ppb	-0.002 ppb	106.339 %	0.545 ppb
Concentration RSD	35.8 %	55.6 %	1.5 %	4.5 %	1.6 %	768.0 %	8,289.3 %	2.6 %	3.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	29.851 ppb	96.230 %	100.360 %	0.036 ppb	0.041 ppb	93.411 %
Concentration per Run 1	30.619 ppb	96.299 %	98.556 %	0.027 ppb	0.043 ppb	94.358 %
Concentration per Run 2	29.950 ppb	95.959 %	101.527 %	0.034 ppb	0.039 ppb	92.215 %
Concentration per Run 3	28.985 ppb	96.433 %	100.996 %	0.046 ppb	0.041 ppb	93.659 %
Concentration RSD	2.8 %	0.3 %	1.6 %	27.2 %	5.2 %	1.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	82	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-03 6020TL	Rack	1		
Analysis started at:	12/5/2023 1:15:05 PM	Vial	51		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.906 %	103.802 %	0.003 ppb	15,731.571 ppb	3,966.024 ppb	2.791 ppb	12,716.712 ppb	51,167.184 ppb	93.625 %
Concentration per Run 1	92.945 %	100.380 %	0.005 ppb	15,692.749 ppb	3,967.995 ppb	3.256 ppb	12,648.037 ppb	51,361.482 ppb	95.634 %
Concentration per Run 2	90.995 %	106.464 %	0.000 ppb	15,333.861 ppb	3,878.548 ppb	2.370 ppb	12,287.428 ppb	49,848.000 ppb	93.027 %
Concentration per Run 3	88.778 %	104.563 %	0.003 ppb	16,168.104 ppb	4,051.529 ppb	2.748 ppb	13,214.673 ppb	52,292.071 ppb	92.214 %
Concentration RSD	2.3 %	3.0 %	87.2 %	2.7 %	2.2 %	15.9 %	3.7 %	2.4 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.636 ppb	0.737 ppb	2.481 ppb	17.742 ppb	0.453 ppb	0.383 ppb	0.649 ppb	0.445 ppb	104.349 %
Concentration per Run 1	0.674 ppb	0.750 ppb	2.639 ppb	18.258 ppb	0.455 ppb	0.434 ppb	0.651 ppb	0.467 ppb	100.194 %
Concentration per Run 2	0.563 ppb	0.723 ppb	2.224 ppb	15.024 ppb	0.454 ppb	0.314 ppb	0.624 ppb	0.430 ppb	103.888 %
Concentration per Run 3	0.671 ppb	0.737 ppb	2.579 ppb	19.945 ppb	0.452 ppb	0.402 ppb	0.672 ppb	0.438 ppb	108.964 %
Concentration RSD	9.9 %	1.9 %	9.0 %	14.1 %	0.4 %	16.1 %	3.7 %	4.4 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.349 ppb	0.642 ppb	222.582 ppb	1.614 ppb	95.289 %	0.000 ppb	0.002 ppb	100.043 %	0.458 ppb
Concentration per Run 1	0.393 ppb	0.386 ppb	217.648 ppb	1.544 ppb	94.705 %	0.000 ppb	0.000 ppb	100.076 %	0.432 ppb
Concentration per Run 2	0.353 ppb	1.032 ppb	223.406 ppb	1.582 ppb	93.063 %	-0.001 ppb	0.004 ppb	96.475 %	0.470 ppb
Concentration per Run 3	0.300 ppb	0.507 ppb	226.691 ppb	1.717 ppb	98.100 %	0.002 ppb	0.002 ppb	103.577 %	0.471 ppb
Concentration RSD	13.3 %	53.5 %	2.1 %	5.6 %	2.7 %	765.1 %	101.6 %	3.5 %	4.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	50.023 ppb	94.564 %	99.903 %	0.066 ppb	0.013 ppb	91.539 %
Concentration per Run 1	49.153 ppb	93.679 %	98.353 %	0.050 ppb	0.012 ppb	97.673 %
Concentration per Run 2	50.460 ppb	93.436 %	96.668 %	0.071 ppb	0.014 ppb	87.922 %
Concentration per Run 3	50.456 ppb	96.578 %	104.687 %	0.076 ppb	0.014 ppb	89.022 %
Concentration RSD	1.5 %	1.8 %	4.2 %	21.1 %	9.0 %	5.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	83	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-05 6020TL	Rack	1		
Analysis started at:	12/5/2023 1:19:43 PM	Vial	52		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.223 %	106.020 %	0.028 ppb	9,576.931 ppb	3,913.950 ppb	9.858 ppb	3,175.884 ppb	19,950.244 ppb	95.238 %
Concentration per Run 1	90.567 %	102.472 %	0.027 ppb	9,694.079 ppb	3,839.904 ppb	8.940 ppb	3,102.418 ppb	20,300.401 ppb	95.218 %
Concentration per Run 2	87.275 %	106.274 %	0.020 ppb	9,416.141 ppb	3,822.752 ppb	9.704 ppb	3,105.657 ppb	19,434.279 ppb	95.573 %
Concentration per Run 3	86.828 %	109.316 %	0.038 ppb	9,620.572 ppb	4,079.193 ppb	10.930 ppb	3,319.577 ppb	20,116.052 ppb	94.924 %
Concentration RSD	2.3 %	3.2 %	31.9 %	1.5 %	3.7 %	10.2 %	3.9 %	2.3 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.021 ppb	0.702 ppb	2.589 ppb	21.734 ppb	0.197 ppb	0.856 ppb	0.279 ppb	0.699 ppb	102.865 %
Concentration per Run 1	0.020 ppb	0.659 ppb	2.758 ppb	23.053 ppb	0.221 ppb	0.914 ppb	0.247 ppb	0.753 ppb	101.764 %
Concentration per Run 2	0.034 ppb	0.689 ppb	2.287 ppb	20.614 ppb	0.194 ppb	0.885 ppb	0.294 ppb	0.627 ppb	100.211 %
Concentration per Run 3	0.007 ppb	0.758 ppb	2.722 ppb	21.534 ppb	0.177 ppb	0.769 ppb	0.294 ppb	0.715 ppb	106.619 %
Concentration RSD	65.1 %	7.2 %	10.1 %	5.7 %	11.4 %	8.9 %	9.7 %	9.3 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.379 ppb	1.308 ppb	113.976 ppb	0.329 ppb	94.711 %	0.006 ppb	0.019 ppb	100.364 %	0.207 ppb
Concentration per Run 1	0.307 ppb	1.010 ppb	112.502 ppb	0.256 ppb	91.556 %	0.004 ppb	0.032 ppb	93.863 %	0.212 ppb
Concentration per Run 2	0.427 ppb	1.185 ppb	112.539 ppb	0.337 ppb	95.350 %	0.007 ppb	0.004 ppb	99.612 %	0.190 ppb
Concentration per Run 3	0.403 ppb	1.731 ppb	116.885 ppb	0.394 ppb	97.227 %	0.007 ppb	0.022 ppb	107.616 %	0.218 ppb
Concentration RSD	16.7 %	28.7 %	2.2 %	21.1 %	3.1 %	24.6 %	74.7 %	6.9 %	6.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	13.258 ppb	94.903 %	99.895 %	0.014 ppb	0.018 ppb	93.255 %
Concentration per Run 1	13.890 ppb	92.000 %	95.531 %	0.008 ppb	0.020 ppb	91.360 %
Concentration per Run 2	12.940 ppb	95.335 %	99.655 %	0.017 ppb	0.018 ppb	93.638 %
Concentration per Run 3	12.943 ppb	97.375 %	104.499 %	0.016 ppb	0.016 ppb	94.767 %
Concentration RSD	4.1 %	2.9 %	4.5 %	36.4 %	9.8 %	1.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	84	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 1:24:21 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.199 %	101.584 %	61.384 ppb	6,524.444 ppb	6,205.035 ppb	65.233 ppb	6,306.003 ppb	5,957.691 ppb	98.417 %
Concentration per Run 1	87.640 %	99.810 %	60.765 ppb	6,884.318 ppb	6,412.675 ppb	65.476 ppb	6,518.695 ppb	6,242.564 ppb	97.636 %
Concentration per Run 2	85.703 %	99.240 %	61.780 ppb	6,430.301 ppb	6,198.993 ppb	67.206 ppb	6,207.941 ppb	5,815.014 ppb	98.573 %
Concentration per Run 3	85.253 %	105.704 %	61.608 ppb	6,258.714 ppb	6,003.438 ppb	63.017 ppb	6,191.374 ppb	5,815.496 ppb	99.042 %
Recovery Percentage 1			102.307 %	108.741 %	103.417 %	108.722 %	105.100 %	99.295 %	
Concentration RSD	1.5 %	3.5 %	0.9 %	5.0 %	3.3 %	3.2 %	2.9 %	4.1 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.355 ppb	59.047 ppb	60.372 ppb	6,253.855 ppb	63.125 ppb	62.943 ppb	61.546 ppb	60.876 ppb	100.466 %
Concentration per Run 1	60.320 ppb	60.626 ppb	61.347 ppb	6,505.315 ppb	67.094 ppb	64.914 ppb	63.966 ppb	63.122 ppb	96.068 %
Concentration per Run 2	60.457 ppb	59.488 ppb	60.744 ppb	6,278.862 ppb	61.705 ppb	62.771 ppb	59.967 ppb	60.350 ppb	102.363 %
Concentration per Run 3	57.289 ppb	57.026 ppb	59.025 ppb	5,977.389 ppb	60.576 ppb	61.145 ppb	60.703 ppb	59.155 ppb	102.967 %
Recovery Percentage 1	98.926 %	98.411 %	100.620 %	104.231 %	105.208 %	104.905 %	102.576 %	101.460 %	
Concentration RSD	3.0 %	3.1 %	2.0 %	4.2 %	5.5 %	3.0 %	3.5 %	3.3 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.765 ppb	56.530 ppb	59.196 ppb	60.138 ppb	94.617 %	59.551 ppb	59.392 ppb	97.780 %	62.468 ppb
Concentration per Run 1	63.013 ppb	58.017 ppb	61.865 ppb	60.820 ppb	89.475 %	61.651 ppb	62.009 ppb	93.957 %	65.365 ppb
Concentration per Run 2	58.787 ppb	55.504 ppb	58.551 ppb	60.054 ppb	96.204 %	58.272 ppb	57.743 ppb	101.950 %	60.690 ppb
Concentration per Run 3	60.495 ppb	56.068 ppb	57.172 ppb	59.539 ppb	98.172 %	58.730 ppb	58.424 ppb	97.435 %	61.349 ppb
Recovery Percentage 1	101.275 %	94.216 %	98.660 %	100.230 %		99.252 %	98.986 %		104.113 %
Concentration RSD	3.5 %	2.3 %	4.1 %	1.1 %	4.8 %	3.1 %	3.9 %	4.1 %	4.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	63.279 ppb	93.096 %	95.629 %	58.437 ppb	55.956 ppb	94.276 %
Concentration per Run 1	67.186 ppb	89.584 %	90.718 %	53.665 ppb	53.044 ppb	99.730 %
Concentration per Run 2	61.252 ppb	91.987 %	97.039 %	59.850 ppb	57.660 ppb	91.780 %
Concentration per Run 3	61.398 ppb	97.718 %	99.131 %	61.796 ppb	57.162 ppb	91.319 %
Recovery Percentage 1	105.464 %			97.395 %	93.259 %	
Concentration RSD	5.3 %	4.5 %	4.6 %	7.3 %	4.5 %	5.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	85	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 1:29:04 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.316 %	98.226 %	0.008 ppb	11.698 ppb	0.495 ppb	-0.304 ppb	2.881 ppb	-2.323 ppb	86.810 %
Concentration per Run 1	86.670 %	97.148 %	0.008 ppb	15.232 ppb	-0.060 ppb	-0.814 ppb	9.334 ppb	-1.965 ppb	86.099 %
Concentration per Run 2	85.003 %	98.099 %	0.009 ppb	13.455 ppb	0.918 ppb	-0.255 ppb	2.840 ppb	4.167 ppb	87.121 %
Concentration per Run 3	84.276 %	99.430 %	0.007 ppb	6.407 ppb	0.627 ppb	0.158 ppb	-3.530 ppb	-9.172 ppb	87.211 %
Recovery Percentage 1			1.562 %	11.698 %	0.707 %	-3.039 %	2.881 %	-2.323 %	
Concentration RSD	1.4 %	1.2 %	11.7 %	39.9 %	101.4 %	160.5 %	223.2 %	287.4 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.019 ppb	0.007 ppb	-0.034 ppb	10.502 ppb	-0.005 ppb	-0.005 ppb	-0.020 ppb	0.088 ppb	98.797 %
Concentration per Run 1	-0.059 ppb	-0.008 ppb	-0.064 ppb	11.301 ppb	-0.007 ppb	-0.028 ppb	0.009 ppb	0.093 ppb	98.056 %
Concentration per Run 2	0.000 ppb	0.024 ppb	-0.052 ppb	10.252 ppb	-0.007 ppb	-0.004 ppb	-0.040 ppb	0.097 ppb	100.408 %
Concentration per Run 3	0.001 ppb	0.006 ppb	0.015 ppb	9.952 ppb	-0.001 ppb	0.017 ppb	-0.030 ppb	0.076 ppb	97.926 %
Recovery Percentage 1	-0.382 %	0.732 %	-3.386 %	21.003 %	-1.031 %	-0.256 %	-2.020 %	1.770 %	
Concentration RSD	180.3 %	218.6 %	126.1 %	6.7 %	65.1 %	440.2 %	129.0 %	12.9 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.105 ppb	0.363 ppb	-0.003 ppb	0.933 ppb	95.126 %	0.004 ppb	0.001 ppb	92.112 %	0.188 ppb
Concentration per Run 1	0.224 ppb	0.381 ppb	-0.018 ppb	0.914 ppb	95.257 %	0.005 ppb	-0.002 ppb	91.160 %	0.160 ppb
Concentration per Run 2	0.118 ppb	0.245 ppb	0.012 ppb	0.960 ppb	94.196 %	0.004 ppb	0.004 ppb	93.794 %	0.189 ppb
Concentration per Run 3	-0.029 ppb	0.464 ppb	-0.004 ppb	0.923 ppb	95.924 %	0.004 ppb	0.000 ppb	91.382 %	0.215 ppb
Recovery Percentage 1	20.918 %	7.270 %	-0.031 %	46.630 %		1.059 %	0.405 %		4.701 %
Concentration RSD	121.4 %	30.3 %	476.4 %	2.6 %	0.9 %	19.8 %	377.6 %	1.6 %	14.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.006 ppb	90.631 %	92.794 %	0.449 ppb	0.015 ppb	89.874 %
Concentration per Run 1	0.001 ppb	91.096 %	93.937 %	0.362 ppb	0.015 ppb	97.171 %
Concentration per Run 2	0.029 ppb	90.585 %	93.955 %	0.539 ppb	0.016 ppb	88.171 %
Concentration per Run 3	-0.013 ppb	90.213 %	90.489 %	0.446 ppb	0.014 ppb	84.280 %
Recovery Percentage 1	1.155 %			44.914 %	1.483 %	
Concentration RSD	367.7 %	0.5 %	2.2 %	19.8 %	8.8 %	7.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	86	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-06 6020TL	Rack	1		
Analysis started at:	12/5/2023 1:34:04 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.501 %	98.859 %	0.023 ppb	28,247.052 ppb	22,542.972 ppb	314.246 ppb	38,485.701 ppb	84,042.435 ppb	93.451 %
Concentration per Run 1	87.756 %	97.528 %	0.031 ppb	28,689.517 ppb	23,090.661 ppb	322.129 ppb	41,148.119 ppb	87,676.996 ppb	93.536 %
Concentration per Run 2	85.563 %	102.662 %	0.021 ppb	26,847.446 ppb	21,119.456 ppb	287.728 ppb	36,255.652 ppb	80,783.660 ppb	93.581 %
Concentration per Run 3	83.183 %	96.388 %	0.017 ppb	29,204.193 ppb	23,418.798 ppb	332.883 ppb	38,053.333 ppb	83,666.648 ppb	93.235 %
Concentration RSD	2.7 %	3.4 %	30.8 %	4.4 %	5.5 %	7.5 %	6.4 %	4.1 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.659 ppb	2.009 ppb	2,974.825 ppb	651.003 ppb	0.516 ppb	1.513 ppb	1.471 ppb	2.156 ppb	100.240 %
Concentration per Run 1	1.608 ppb	1.999 ppb	3,005.914 ppb	631.684 ppb	0.507 ppb	1.538 ppb	1.521 ppb	2.164 ppb	97.687 %
Concentration per Run 2	1.726 ppb	2.015 ppb	3,009.250 ppb	670.686 ppb	0.569 ppb	1.562 ppb	1.572 ppb	2.042 ppb	96.034 %
Concentration per Run 3	1.643 ppb	2.014 ppb	2,909.312 ppb	650.637 ppb	0.473 ppb	1.438 ppb	1.321 ppb	2.263 ppb	106.999 %
Concentration RSD	3.6 %	0.4 %	1.9 %	3.0 %	9.4 %	4.4 %	9.0 %	5.1 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.601 ppb	0.787 ppb	182.995 ppb	0.596 ppb	90.963 %	0.008 ppb	0.059 ppb	92.779 %	0.158 ppb
Concentration per Run 1	0.683 ppb	0.792 ppb	190.660 ppb	0.528 ppb	89.073 %	0.008 ppb	0.046 ppb	95.900 %	0.119 ppb
Concentration per Run 2	0.609 ppb	0.754 ppb	176.722 ppb	0.629 ppb	90.899 %	0.008 ppb	0.075 ppb	86.060 %	0.157 ppb
Concentration per Run 3	0.511 ppb	0.814 ppb	181.601 ppb	0.633 ppb	92.916 %	0.008 ppb	0.055 ppb	96.377 %	0.198 ppb
Concentration RSD	14.4 %	3.9 %	3.9 %	10.0 %	2.1 %	1.5 %	25.1 %	6.3 %	25.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	87.371 ppb	93.678 %	95.621 %	0.229 ppb	0.472 ppb	86.066 %
Concentration per Run 1	84.443 ppb	95.198 %	96.125 %	0.192 ppb	0.474 ppb	87.483 %
Concentration per Run 2	88.287 ppb	89.915 %	92.012 %	0.252 ppb	0.480 ppb	83.774 %
Concentration per Run 3	89.384 ppb	95.922 %	98.725 %	0.242 ppb	0.461 ppb	86.940 %
Concentration RSD	3.0 %	3.5 %	3.5 %	14.1 %	2.0 %	2.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	87	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-07 6020TL	Rack	1		
Analysis started at:	12/5/2023 1:38:43 PM	Vial	54		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.562 %	100.063 %	0.009 ppb	22,509.286 ppb	12,943.094 ppb	22.201 ppb	12,118.858 ppb	105,192.471 ppb	93.350 %
Concentration per Run 1	88.714 %	101.331 %	0.003 ppb	21,932.297 ppb	12,312.392 ppb	19.857 ppb	11,933.352 ppb	102,598.059 ppb	94.070 %
Concentration per Run 2	85.519 %	97.148 %	0.010 ppb	22,614.121 ppb	12,650.434 ppb	24.100 ppb	12,137.622 ppb	106,076.322 ppb	92.760 %
Concentration per Run 3	85.452 %	101.711 %	0.014 ppb	22,981.439 ppb	13,866.455 ppb	22.646 ppb	12,285.601 ppb	106,903.032 ppb	93.220 %
Concentration RSD	2.2 %	2.5 %	58.6 %	2.4 %	6.3 %	9.7 %	1.5 %	2.2 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.379 ppb	1.473 ppb	263.251 ppb	63.347 ppb	0.444 ppb	1.377 ppb	1.630 ppb	0.405 ppb	97.868 %
Concentration per Run 1	0.373 ppb	1.427 ppb	259.987 ppb	60.798 ppb	0.452 ppb	1.383 ppb	1.599 ppb	0.436 ppb	98.734 %
Concentration per Run 2	0.421 ppb	1.456 ppb	270.501 ppb	66.541 ppb	0.449 ppb	1.400 ppb	1.659 ppb	0.380 ppb	93.284 %
Concentration per Run 3	0.342 ppb	1.536 ppb	259.264 ppb	62.701 ppb	0.430 ppb	1.349 ppb	1.633 ppb	0.398 ppb	101.586 %
Concentration RSD	10.5 %	3.9 %	2.4 %	4.6 %	2.6 %	1.9 %	1.8 %	7.0 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.389 ppb	0.485 ppb	422.925 ppb	0.531 ppb	90.612 %	0.002 ppb	0.018 ppb	93.792 %	0.154 ppb
Concentration per Run 1	0.325 ppb	0.607 ppb	428.650 ppb	0.537 ppb	89.556 %	0.000 ppb	0.022 ppb	94.923 %	0.136 ppb
Concentration per Run 2	0.431 ppb	0.347 ppb	416.007 ppb	0.444 ppb	88.148 %	0.001 ppb	0.021 ppb	90.463 %	0.153 ppb
Concentration per Run 3	0.411 ppb	0.500 ppb	424.117 ppb	0.611 ppb	94.133 %	0.004 ppb	0.010 ppb	95.991 %	0.174 ppb
Concentration RSD	14.4 %	26.9 %	1.5 %	15.7 %	3.5 %	118.4 %	38.4 %	3.1 %	12.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	81.858 ppb	92.638 %	95.680 %	0.434 ppb	0.191 ppb	87.243 %
Concentration per Run 1	82.078 ppb	92.288 %	98.786 %	0.397 ppb	0.193 ppb	88.951 %
Concentration per Run 2	80.833 ppb	91.846 %	93.562 %	0.453 ppb	0.189 ppb	85.724 %
Concentration per Run 3	82.663 ppb	93.782 %	94.692 %	0.451 ppb	0.191 ppb	87.054 %
Concentration RSD	1.1 %	1.1 %	2.9 %	7.4 %	1.1 %	1.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	88	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-08 6020TL	Rack	1		
Analysis started at:	12/5/2023 1:43:21 PM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.282 %	98.542 %	0.022 ppb	10,732.717 ppb	2,374.350 ppb	213.818 ppb	36,385.089 ppb	18,622.458 ppb	92.920 %
Concentration per Run 1	89.810 %	91.255 %	0.018 ppb	11,388.685 ppb	2,480.123 ppb	226.710 ppb	38,035.964 ppb	19,537.533 ppb	93.488 %
Concentration per Run 2	86.837 %	98.479 %	0.023 ppb	10,551.383 ppb	2,313.151 ppb	218.559 ppb	36,329.163 ppb	18,022.558 ppb	92.759 %
Concentration per Run 3	85.200 %	105.894 %	0.025 ppb	10,258.082 ppb	2,329.776 ppb	196.184 ppb	34,790.139 ppb	18,307.283 ppb	92.512 %
Concentration RSD	2.7 %	7.4 %	15.7 %	5.5 %	3.9 %	7.4 %	4.5 %	4.3 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.274 ppb	4.845 ppb	45.201 ppb	523.152 ppb	0.614 ppb	3.732 ppb	4.143 ppb	0.876 ppb	98.820 %
Concentration per Run 1	1.214 ppb	4.862 ppb	45.340 ppb	539.660 ppb	0.628 ppb	4.185 ppb	4.003 ppb	0.910 ppb	96.403 %
Concentration per Run 2	1.193 ppb	4.689 ppb	44.283 ppb	513.494 ppb	0.613 ppb	3.330 ppb	4.132 ppb	0.882 ppb	102.082 %
Concentration per Run 3	1.417 ppb	4.985 ppb	45.979 ppb	516.300 ppb	0.601 ppb	3.681 ppb	4.293 ppb	0.836 ppb	97.977 %
Concentration RSD	9.7 %	3.1 %	1.9 %	2.7 %	2.2 %	11.5 %	3.5 %	4.2 %	3.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.811 ppb	1.130 ppb	63.020 ppb	1.003 ppb	93.262 %	0.003 ppb	0.009 ppb	93.708 %	0.174 ppb
Concentration per Run 1	0.951 ppb	1.236 ppb	63.268 ppb	0.974 ppb	92.173 %	0.003 ppb	0.009 ppb	89.442 %	0.172 ppb
Concentration per Run 2	0.809 ppb	1.209 ppb	62.098 ppb	0.912 ppb	92.800 %	0.002 ppb	0.014 ppb	94.498 %	0.163 ppb
Concentration per Run 3	0.672 ppb	0.945 ppb	63.694 ppb	1.123 ppb	94.812 %	0.002 ppb	0.004 ppb	97.184 %	0.187 ppb
Concentration RSD	17.2 %	14.2 %	1.3 %	10.8 %	1.5 %	32.9 %	57.3 %	4.2 %	7.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	41.472 ppb	92.835 %	95.684 %	0.237 ppb	0.630 ppb	92.425 %
Concentration per Run 1	44.081 ppb	92.711 %	95.621 %	0.203 ppb	0.611 ppb	94.714 %
Concentration per Run 2	39.211 ppb	94.487 %	96.050 %	0.262 ppb	0.626 ppb	90.801 %
Concentration per Run 3	41.125 ppb	91.308 %	95.381 %	0.247 ppb	0.654 ppb	91.760 %
Concentration RSD	5.9 %	1.7 %	0.4 %	13.1 %	3.5 %	2.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	89	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-09 6020TL	Rack	1		
Analysis started at:	12/5/2023 1:48:00 PM	Vial	56		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.782 %	104.499 %	0.029 ppb	9,535.414 ppb	3,825.407 ppb	8.751 ppb	3,065.326 ppb	19,570.109 ppb	92.332 %
Concentration per Run 1	88.600 %	105.894 %	0.028 ppb	9,229.761 ppb	3,740.623 ppb	7.953 ppb	2,933.494 ppb	19,103.489 ppb	91.348 %
Concentration per Run 2	85.804 %	97.528 %	0.032 ppb	9,858.542 ppb	3,914.645 ppb	10.504 ppb	3,101.160 ppb	19,243.498 ppb	91.857 %
Concentration per Run 3	85.942 %	110.076 %	0.027 ppb	9,517.938 ppb	3,820.953 ppb	7.796 ppb	3,161.323 ppb	20,363.339 ppb	93.792 %
Concentration RSD	1.8 %	6.1 %	8.4 %	3.3 %	2.3 %	17.4 %	3.9 %	3.5 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.055 ppb	0.635 ppb	1.926 ppb	16.165 ppb	0.127 ppb	0.836 ppb	0.245 ppb	0.431 ppb	103.040 %
Concentration per Run 1	0.050 ppb	0.690 ppb	2.149 ppb	16.644 ppb	0.143 ppb	0.897 ppb	0.254 ppb	0.408 ppb	98.612 %
Concentration per Run 2	0.096 ppb	0.605 ppb	1.670 ppb	15.332 ppb	0.120 ppb	0.777 ppb	0.242 ppb	0.454 ppb	101.805 %
Concentration per Run 3	0.020 ppb	0.609 ppb	1.960 ppb	16.519 ppb	0.119 ppb	0.832 ppb	0.238 ppb	0.430 ppb	108.703 %
Concentration RSD	69.3 %	7.5 %	12.5 %	4.5 %	10.8 %	7.2 %	3.5 %	5.3 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.355 ppb	1.614 ppb	111.181 ppb	0.161 ppb	93.683 %	0.002 ppb	0.025 ppb	97.842 %	0.096 ppb
Concentration per Run 1	0.253 ppb	1.739 ppb	110.164 ppb	0.160 ppb	90.330 %	0.000 ppb	0.033 ppb	93.112 %	0.059 ppb
Concentration per Run 2	0.401 ppb	1.559 ppb	109.171 ppb	0.158 ppb	96.760 %	0.001 ppb	0.019 ppb	98.808 %	0.108 ppb
Concentration per Run 3	0.409 ppb	1.543 ppb	114.208 ppb	0.167 ppb	93.958 %	0.004 ppb	0.023 ppb	101.606 %	0.122 ppb
Concentration RSD	24.8 %	6.7 %	2.4 %	2.8 %	3.4 %	113.7 %	28.2 %	4.4 %	34.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	12.830 ppb	94.868 %	98.386 %	0.036 ppb	0.013 ppb	92.158 %
Concentration per Run 1	12.620 ppb	91.123 %	94.150 %	0.024 ppb	0.014 ppb	90.622 %
Concentration per Run 2	12.528 ppb	96.200 %	101.638 %	0.040 ppb	0.015 ppb	92.533 %
Concentration per Run 3	13.341 ppb	97.281 %	99.371 %	0.044 ppb	0.012 ppb	93.321 %
Concentration RSD	3.5 %	3.5 %	3.9 %	30.0 %	11.4 %	1.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	90	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2371040-01 6020TL	Rack	1		
Analysis started at:	12/5/2023 1:52:39 PM	Vial	58		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.921 %	106.464 %	0.021 ppb	17,456.357 ppb	7,180.782 ppb	289.961 ppb	2,042.602 ppb	16,203.205 ppb	91.734 %
Concentration per Run 1	86.643 %	102.281 %	0.017 ppb	17,455.282 ppb	7,177.499 ppb	287.261 ppb	2,087.323 ppb	16,494.788 ppb	92.883 %
Concentration per Run 2	84.779 %	107.605 %	0.021 ppb	17,760.513 ppb	7,193.801 ppb	297.697 ppb	2,039.844 ppb	16,391.818 ppb	91.378 %
Concentration per Run 3	83.339 %	109.506 %	0.025 ppb	17,153.276 ppb	7,171.047 ppb	284.925 ppb	2,000.638 ppb	15,723.010 ppb	90.940 %
Concentration RSD	2.0 %	3.5 %	19.4 %	1.7 %	0.2 %	2.3 %	2.1 %	2.6 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.824 ppb	3.637 ppb	24.775 ppb	422.625 ppb	0.953 ppb	2.610 ppb	1.134 ppb	2.580 ppb	100.037 %
Concentration per Run 1	0.884 ppb	3.622 ppb	24.673 ppb	428.346 ppb	1.005 ppb	2.644 ppb	1.173 ppb	2.638 ppb	91.883 %
Concentration per Run 2	0.840 ppb	3.725 ppb	24.572 ppb	415.954 ppb	0.903 ppb	2.274 ppb	1.082 ppb	2.450 ppb	105.750 %
Concentration per Run 3	0.747 ppb	3.565 ppb	25.079 ppb	423.573 ppb	0.950 ppb	2.913 ppb	1.147 ppb	2.652 ppb	102.477 %
Concentration RSD	8.5 %	2.2 %	1.1 %	1.5 %	5.4 %	12.3 %	4.2 %	4.4 %	7.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.379 ppb	0.226 ppb	69.181 ppb	0.344 ppb	93.394 %	0.100 ppb	0.056 ppb	97.892 %	0.130 ppb
Concentration per Run 1	0.494 ppb	-0.031 ppb	68.577 ppb	0.317 ppb	91.302 %	0.100 ppb	0.048 ppb	95.218 %	0.113 ppb
Concentration per Run 2	0.277 ppb	0.432 ppb	70.860 ppb	0.391 ppb	95.942 %	0.100 ppb	0.066 ppb	102.036 %	0.119 ppb
Concentration per Run 3	0.366 ppb	0.277 ppb	68.104 ppb	0.324 ppb	92.937 %	0.099 ppb	0.053 ppb	96.424 %	0.157 ppb
Concentration RSD	28.8 %	104.5 %	2.1 %	11.8 %	2.5 %	0.6 %	16.2 %	3.7 %	18.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	50.971 ppb	93.162 %	97.047 %	0.026 ppb	0.312 ppb	92.735 %
Concentration per Run 1	52.208 ppb	89.616 %	94.252 %	0.014 ppb	0.302 ppb	92.906 %
Concentration per Run 2	50.743 ppb	95.469 %	99.280 %	0.034 ppb	0.314 ppb	92.387 %
Concentration per Run 3	49.963 ppb	94.401 %	97.608 %	0.030 ppb	0.322 ppb	92.911 %
Concentration RSD	2.2 %	3.3 %	2.6 %	39.9 %	3.2 %	0.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	91	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2371040-02 6020TL	Rack	1		
Analysis started at:	12/5/2023 1:57:18 PM	Vial	59		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.660 %	105.513 %	0.005 ppb	30,422.494 ppb	12,685.658 ppb	46.326 ppb	1,187.680 ppb	21,352.424 ppb	93.595 %
Concentration per Run 1	86.487 %	108.175 %	0.012 ppb	29,638.640 ppb	12,216.765 ppb	42.890 ppb	1,100.849 ppb	20,421.017 ppb	93.889 %
Concentration per Run 2	84.195 %	103.802 %	0.005 ppb	31,491.332 ppb	13,468.229 ppb	48.142 ppb	1,242.664 ppb	21,972.523 ppb	93.299 %
Concentration per Run 3	83.299 %	104.563 %	-0.002 ppb	30,137.511 ppb	12,371.982 ppb	47.945 ppb	1,219.526 ppb	21,663.731 ppb	93.596 %
Concentration RSD	1.9 %	2.2 %	146.7 %	3.2 %	5.4 %	6.4 %	6.4 %	3.8 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.258 ppb	3.040 ppb	3.495 ppb	53.545 ppb	0.436 ppb	2.200 ppb	0.473 ppb	1.452 ppb	105.719 %
Concentration per Run 1	0.271 ppb	3.040 ppb	3.420 ppb	48.989 ppb	0.427 ppb	2.368 ppb	0.472 ppb	1.529 ppb	100.691 %
Concentration per Run 2	0.220 ppb	3.025 ppb	3.612 ppb	54.248 ppb	0.377 ppb	2.095 ppb	0.502 ppb	1.413 ppb	110.079 %
Concentration per Run 3	0.283 ppb	3.055 ppb	3.452 ppb	57.398 ppb	0.505 ppb	2.137 ppb	0.446 ppb	1.414 ppb	106.386 %
Concentration RSD	12.8 %	0.5 %	2.9 %	7.9 %	14.8 %	6.7 %	5.9 %	4.6 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.242 ppb	0.128 ppb	133.041 ppb	0.467 ppb	93.141 %	0.084 ppb	0.061 ppb	99.569 %	0.071 ppb
Concentration per Run 1	0.360 ppb	0.172 ppb	131.795 ppb	0.465 ppb	90.762 %	0.086 ppb	0.072 ppb	98.861 %	0.058 ppb
Concentration per Run 2	0.120 ppb	0.154 ppb	137.893 ppb	0.492 ppb	95.018 %	0.089 ppb	0.056 ppb	103.898 %	0.075 ppb
Concentration per Run 3	0.246 ppb	0.057 ppb	129.436 ppb	0.446 ppb	93.642 %	0.077 ppb	0.055 ppb	95.948 %	0.082 ppb
Concentration RSD	49.5 %	48.4 %	3.3 %	5.0 %	2.3 %	7.9 %	15.8 %	4.0 %	17.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	73.901 ppb	95.405 %	100.363 %	0.017 ppb	0.091 ppb	91.803 %
Concentration per Run 1	70.321 ppb	91.293 %	97.977 %	0.007 ppb	0.086 ppb	92.637 %
Concentration per Run 2	76.061 ppb	98.228 %	105.622 %	0.020 ppb	0.093 ppb	92.990 %
Concentration per Run 3	75.322 ppb	96.694 %	97.489 %	0.023 ppb	0.093 ppb	89.781 %
Concentration RSD	4.2 %	3.8 %	4.5 %	50.2 %	4.4 %	1.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	92	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2371040-04 6020TL	Rack	1		
Analysis started at:	12/5/2023 2:01:58 PM	Vial	60		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.627 %	108.682 %	0.016 ppb	22,211.626 ppb	13,698.325 ppb	66.197 ppb	13,750.888 ppb	34,961.852 ppb	92.626 %
Concentration per Run 1	88.726 %	101.711 %	0.014 ppb	23,196.853 ppb	13,933.947 ppb	69.116 ppb	14,234.881 ppb	36,380.298 ppb	94.913 %
Concentration per Run 2	85.218 %	114.639 %	0.020 ppb	21,787.465 ppb	13,567.773 ppb	61.645 ppb	13,346.750 ppb	33,186.863 ppb	91.879 %
Concentration per Run 3	82.935 %	109.696 %	0.015 ppb	21,650.559 ppb	13,593.256 ppb	67.830 ppb	13,671.034 ppb	35,318.396 ppb	91.085 %
Concentration RSD	3.4 %	6.0 %	21.3 %	3.9 %	1.5 %	6.0 %	3.3 %	4.7 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.384 ppb	1.031 ppb	3.995 ppb	68.158 ppb	0.340 ppb	1.376 ppb	1.735 ppb	0.651 ppb	104.621 %
Concentration per Run 1	0.365 ppb	1.068 ppb	3.681 ppb	72.245 ppb	0.355 ppb	1.427 ppb	1.819 ppb	0.686 ppb	98.649 %
Concentration per Run 2	0.324 ppb	0.992 ppb	4.096 ppb	63.028 ppb	0.315 ppb	1.258 ppb	1.504 ppb	0.581 ppb	112.624 %
Concentration per Run 3	0.463 ppb	1.032 ppb	4.207 ppb	69.202 ppb	0.350 ppb	1.444 ppb	1.881 ppb	0.688 ppb	102.589 %
Concentration RSD	18.6 %	3.7 %	6.9 %	6.9 %	6.3 %	7.5 %	11.7 %	9.4 %	6.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.412 ppb	0.242 ppb	206.733 ppb	0.130 ppb	94.152 %	0.069 ppb	0.042 ppb	97.619 %	0.103 ppb
Concentration per Run 1	0.469 ppb	0.053 ppb	202.915 ppb	0.111 ppb	93.194 %	0.081 ppb	0.053 ppb	96.318 %	0.092 ppb
Concentration per Run 2	0.356 ppb	0.399 ppb	212.578 ppb	0.145 ppb	95.439 %	0.069 ppb	0.042 ppb	100.725 %	0.106 ppb
Concentration per Run 3	0.412 ppb	0.273 ppb	204.707 ppb	0.135 ppb	93.824 %	0.056 ppb	0.032 ppb	95.815 %	0.110 ppb
Concentration RSD	13.7 %	72.6 %	2.5 %	13.5 %	1.2 %	18.5 %	25.6 %	2.8 %	9.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	252.384 ppb	94.228 %	98.204 %	0.017 ppb	0.066 ppb	90.968 %
Concentration per Run 1	245.407 ppb	91.562 %	95.744 %	0.011 ppb	0.063 ppb	89.679 %
Concentration per Run 2	264.028 ppb	97.376 %	102.749 %	0.021 ppb	0.067 ppb	94.475 %
Concentration per Run 3	247.719 ppb	93.746 %	96.119 %	0.020 ppb	0.068 ppb	88.750 %
Concentration RSD	4.0 %	3.1 %	4.0 %	33.4 %	3.4 %	3.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	93	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2371040-05 6020TL	Rack	2		
Analysis started at:	12/5/2023 2:06:39 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.485 %	99.113 %	0.010 ppb	24,197.377 ppb	15,126.742 ppb	68.420 ppb	15,291.127 ppb	38,427.552 ppb	93.157 %
Concentration per Run 1	86.507 %	97.148 %	0.013 ppb	24,758.889 ppb	15,395.082 ppb	64.273 ppb	15,259.184 ppb	39,445.235 ppb	91.254 %
Concentration per Run 2	86.373 %	98.099 %	0.011 ppb	25,019.162 ppb	15,988.302 ppb	71.885 ppb	15,787.353 ppb	39,563.950 ppb	92.993 %
Concentration per Run 3	86.574 %	102.091 %	0.007 ppb	22,814.078 ppb	13,996.842 ppb	69.102 ppb	14,826.844 ppb	36,273.470 ppb	95.225 %
Concentration RSD	0.1 %	2.6 %	33.0 %	5.0 %	6.8 %	5.6 %	3.1 %	4.9 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.344 ppb	1.142 ppb	4.457 ppb	69.951 ppb	0.352 ppb	1.465 ppb	1.883 ppb	1.476 ppb	102.357 %
Concentration per Run 1	0.351 ppb	1.177 ppb	4.506 ppb	71.162 ppb	0.382 ppb	1.673 ppb	1.991 ppb	1.615 ppb	95.752 %
Concentration per Run 2	0.353 ppb	1.201 ppb	4.523 ppb	69.205 ppb	0.338 ppb	1.415 ppb	1.844 ppb	1.511 ppb	107.346 %
Concentration per Run 3	0.328 ppb	1.048 ppb	4.343 ppb	69.487 ppb	0.337 ppb	1.308 ppb	1.815 ppb	1.301 ppb	103.971 %
Concentration RSD	4.0 %	7.2 %	2.2 %	1.5 %	7.3 %	12.8 %	5.0 %	10.8 %	5.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.559 ppb	0.369 ppb	214.735 ppb	0.155 ppb	93.486 %	0.061 ppb	0.027 ppb	98.323 %	0.098 ppb
Concentration per Run 1	0.653 ppb	0.696 ppb	219.252 ppb	0.170 ppb	88.250 %	0.073 ppb	0.027 ppb	92.010 %	0.111 ppb
Concentration per Run 2	0.527 ppb	0.294 ppb	221.529 ppb	0.103 ppb	96.473 %	0.055 ppb	0.037 ppb	105.826 %	0.091 ppb
Concentration per Run 3	0.498 ppb	0.116 ppb	203.422 ppb	0.193 ppb	95.736 %	0.055 ppb	0.018 ppb	97.133 %	0.091 ppb
Concentration RSD	14.7 %	80.5 %	4.6 %	29.9 %	4.9 %	17.4 %	35.0 %	7.1 %	11.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	258.170 ppb	92.961 %	97.936 %	0.014 ppb	0.081 ppb	88.243 %
Concentration per Run 1	258.905 ppb	89.930 %	93.930 %	0.004 ppb	0.079 ppb	87.394 %
Concentration per Run 2	258.832 ppb	95.607 %	100.591 %	0.020 ppb	0.080 ppb	89.176 %
Concentration per Run 3	256.772 ppb	93.346 %	99.286 %	0.020 ppb	0.082 ppb	88.158 %
Concentration RSD	0.5 %	3.1 %	3.6 %	62.4 %	2.1 %	1.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	94	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2371040-06 6020TL	Rack	2		
Analysis started at:	12/5/2023 2:11:18 PM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.011 %	105.704 %	-0.004 ppb	52.865 ppb	7.902 ppb	2.712 ppb	7.959 ppb	57.313 ppb	94.195 %
Concentration per Run 1	91.953 %	98.479 %	-0.007 ppb	59.819 ppb	8.859 ppb	2.776 ppb	15.917 ppb	60.073 ppb	95.606 %
Concentration per Run 2	89.784 %	117.681 %	-0.002 ppb	42.537 ppb	7.865 ppb	2.899 ppb	-3.740 ppb	49.895 ppb	95.258 %
Concentration per Run 3	85.295 %	100.951 %	-0.004 ppb	56.238 ppb	6.981 ppb	2.461 ppb	11.699 ppb	61.970 ppb	91.720 %
Concentration RSD	3.8 %	9.9 %	59.8 %	17.3 %	11.9 %	8.3 %	130.0 %	11.3 %	2.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.008 ppb	1.368 ppb	0.091 ppb	7.894 ppb	0.009 ppb	0.471 ppb	0.157 ppb	0.371 ppb	99.970 %
Concentration per Run 1	-0.004 ppb	1.427 ppb	0.060 ppb	7.945 ppb	0.017 ppb	0.530 ppb	0.185 ppb	0.415 ppb	94.793 %
Concentration per Run 2	0.006 ppb	1.270 ppb	0.087 ppb	7.498 ppb	0.008 ppb	0.448 ppb	0.132 ppb	0.366 ppb	104.157 %
Concentration per Run 3	0.021 ppb	1.407 ppb	0.127 ppb	8.240 ppb	0.001 ppb	0.435 ppb	0.154 ppb	0.334 ppb	100.959 %
Concentration RSD	162.9 %	6.3 %	37.4 %	4.7 %	87.9 %	11.0 %	16.9 %	11.0 %	4.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.215 ppb	-0.048 ppb	0.186 ppb	0.054 ppb	98.461 %	-0.001 ppb	-0.001 ppb	99.159 %	0.059 ppb
Concentration per Run 1	0.320 ppb	-0.131 ppb	0.187 ppb	0.047 ppb	95.313 %	-0.001 ppb	-0.002 ppb	95.378 %	0.045 ppb
Concentration per Run 2	0.252 ppb	0.010 ppb	0.191 ppb	0.075 ppb	100.245 %	-0.001 ppb	-0.002 ppb	104.818 %	0.061 ppb
Concentration per Run 3	0.073 ppb	-0.023 ppb	0.181 ppb	0.038 ppb	99.825 %	-0.001 ppb	0.000 ppb	97.281 %	0.071 ppb
Concentration RSD	59.5 %	153.1 %	2.7 %	36.2 %	2.8 %	1.4 %	90.0 %	5.0 %	21.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.036 ppb	92.775 %	96.483 %	0.006 ppb	0.011 ppb	95.842 %
Concentration per Run 1	0.001 ppb	90.727 %	93.408 %	-0.003 ppb	0.012 ppb	96.412 %
Concentration per Run 2	0.052 ppb	94.398 %	100.684 %	0.009 ppb	0.009 ppb	97.724 %
Concentration per Run 3	0.055 ppb	93.198 %	95.355 %	0.013 ppb	0.012 ppb	93.390 %
Concentration RSD	84.4 %	2.0 %	3.9 %	129.1 %	14.1 %	2.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	95	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 2:15:57 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.137 %	106.717 %	62.744 ppb	6,565.093 ppb	6,383.563 ppb	63.266 ppb	6,168.288 ppb	5,995.971 ppb	96.683 %
Concentration per Run 1	86.586 %	111.787 %	63.376 ppb	6,137.143 ppb	5,913.429 ppb	62.826 ppb	5,958.163 ppb	5,698.221 ppb	96.590 %
Concentration per Run 2	85.205 %	105.513 %	61.934 ppb	6,696.913 ppb	6,562.304 ppb	64.115 ppb	6,395.104 ppb	6,198.761 ppb	97.615 %
Concentration per Run 3	83.619 %	102.852 %	62.923 ppb	6,861.224 ppb	6,674.954 ppb	62.857 ppb	6,151.597 ppb	6,090.931 ppb	95.843 %
Recovery Percentage 1			104.574 %	109.418 %	106.393 %	105.443 %	102.805 %	99.933 %	
Concentration RSD	1.7 %	4.3 %	1.2 %	5.8 %	6.4 %	1.2 %	3.5 %	4.4 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.332 ppb	56.716 ppb	60.260 ppb	6,107.040 ppb	61.358 ppb	61.007 ppb	60.883 ppb	58.886 ppb	103.139 %
Concentration per Run 1	56.790 ppb	54.870 ppb	55.515 ppb	5,813.831 ppb	59.175 ppb	60.152 ppb	59.257 ppb	56.801 ppb	100.661 %
Concentration per Run 2	56.457 ppb	56.338 ppb	60.781 ppb	6,116.442 ppb	61.090 ppb	59.276 ppb	61.234 ppb	58.481 ppb	108.092 %
Concentration per Run 3	58.749 ppb	58.939 ppb	64.485 ppb	6,390.848 ppb	63.808 ppb	63.594 ppb	62.157 ppb	61.377 ppb	100.665 %
Recovery Percentage 1	95.553 %	94.526 %	100.434 %	101.784 %	102.263 %	101.679 %	101.471 %	98.144 %	
Concentration RSD	2.2 %	3.6 %	7.5 %	4.7 %	3.8 %	3.7 %	2.4 %	3.9 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.897 ppb	62.230 ppb	60.100 ppb	58.414 ppb	96.608 %	60.461 ppb	60.048 ppb	97.943 %	61.456 ppb
Concentration per Run 1	60.361 ppb	61.493 ppb	57.228 ppb	54.226 ppb	97.395 %	59.101 ppb	59.026 ppb	97.065 %	59.707 ppb
Concentration per Run 2	60.037 ppb	62.763 ppb	63.043 ppb	58.983 ppb	97.242 %	60.224 ppb	59.404 ppb	103.899 %	61.093 ppb
Concentration per Run 3	62.292 ppb	62.435 ppb	60.029 ppb	62.032 ppb	95.188 %	62.059 ppb	61.713 ppb	92.865 %	63.567 ppb
Recovery Percentage 1	101.494 %	103.717 %	100.167 %	97.356 %		100.769 %	100.080 %		102.426 %
Concentration RSD	2.0 %	1.1 %	4.8 %	6.7 %	1.3 %	2.5 %	2.4 %	5.7 %	3.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	63.324 ppb	92.509 %	98.548 %	59.558 ppb	54.212 ppb	98.239 %
Concentration per Run 1	63.213 ppb	91.060 %	98.734 %	48.875 ppb	48.305 ppb	107.758 %
Concentration per Run 2	65.263 ppb	94.222 %	99.609 %	57.907 ppb	54.788 ppb	98.193 %
Concentration per Run 3	61.496 ppb	92.245 %	97.302 %	71.892 ppb	59.544 ppb	88.768 %
Recovery Percentage 1	105.540 %			99.264 %	90.354 %	
Concentration RSD	3.0 %	1.7 %	1.2 %	19.5 %	10.4 %	9.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	96	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 2:20:40 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.092 %	102.662 %	0.009 ppb	13.288 ppb	0.289 ppb	-0.080 ppb	7.137 ppb	-3.713 ppb	87.592 %
Concentration per Run 1	84.780 %	104.753 %	0.003 ppb	9.818 ppb	0.820 ppb	-0.215 ppb	9.544 ppb	-3.919 ppb	88.719 %
Concentration per Run 2	84.150 %	105.894 %	0.012 ppb	14.197 ppb	-0.022 ppb	-0.345 ppb	-2.364 ppb	-5.649 ppb	87.953 %
Concentration per Run 3	80.347 %	97.338 %	0.012 ppb	15.850 ppb	0.069 ppb	0.320 ppb	14.231 ppb	-1.571 ppb	86.104 %
Recovery Percentage 1			1.804 %	13.288 %	0.412 %	-0.802 %	7.137 %	-3.713 %	
Concentration RSD	2.9 %	4.5 %	55.3 %	23.5 %	160.0 %	440.0 %	119.9 %	55.1 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.017 ppb	0.001 ppb	-0.033 ppb	9.701 ppb	0.000 ppb	0.001 ppb	-0.028 ppb	0.097 ppb	101.194 %
Concentration per Run 1	-0.001 ppb	0.012 ppb	-0.027 ppb	9.885 ppb	-0.001 ppb	-0.014 ppb	-0.037 ppb	0.130 ppb	98.772 %
Concentration per Run 2	0.061 ppb	-0.013 ppb	-0.018 ppb	8.572 ppb	-0.003 ppb	0.012 ppb	-0.017 ppb	0.105 ppb	103.254 %
Concentration per Run 3	-0.008 ppb	0.003 ppb	-0.053 ppb	10.647 ppb	0.006 ppb	0.005 ppb	-0.030 ppb	0.056 ppb	101.555 %
Recovery Percentage 1	0.348 %	0.066 %	-3.262 %	19.403 %	0.059 %	0.055 %	-2.808 %	1.938 %	
Concentration RSD	216.1 %	1,933.8 %	55.5 %	10.8 %	1,576.9 %	1,237.6 %	35.2 %	38.5 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.198 ppb	0.418 ppb	0.008 ppb	0.829 ppb	94.228 %	0.005 ppb	-0.002 ppb	98.325 %	0.083 ppb
Concentration per Run 1	0.171 ppb	0.468 ppb	-0.001 ppb	0.793 ppb	93.804 %	0.003 ppb	-0.002 ppb	99.933 %	0.067 ppb
Concentration per Run 2	0.221 ppb	0.240 ppb	0.013 ppb	0.832 ppb	94.278 %	0.007 ppb	-0.002 ppb	97.009 %	0.088 ppb
Concentration per Run 3	0.203 ppb	0.547 ppb	0.012 ppb	0.861 ppb	94.603 %	0.006 ppb	-0.002 ppb	98.032 %	0.095 ppb
Recovery Percentage 1	39.653 %	8.364 %	0.081 %	41.426 %		1.312 %	-0.933 %		2.078 %
Concentration RSD	12.9 %	38.1 %	96.6 %	4.1 %	0.4 %	36.6 %	0.0 %	1.5 %	17.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.004 ppb	92.131 %	94.672 %	0.422 ppb	0.011 ppb	93.919 %
Concentration per Run 1	-0.013 ppb	93.842 %	94.522 %	0.327 ppb	0.014 ppb	100.173 %
Concentration per Run 2	0.001 ppb	89.478 %	95.290 %	0.493 ppb	0.012 ppb	92.033 %
Concentration per Run 3	0.001 ppb	93.073 %	94.203 %	0.446 ppb	0.008 ppb	89.550 %
Recovery Percentage 1	-0.754 %			42.208 %	1.108 %	
Concentration RSD	208.2 %	2.5 %	0.6 %	20.3 %	28.6 %	5.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	97	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1858756-1 2008SL	Rack	2		
Analysis started at:	12/5/2023 2:34:15 PM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.585 %	101.521 %	0.004 ppb	43.755 ppb	2.446 ppb	6.227 ppb	10.214 ppb	5.952 ppb	93.371 %
Concentration per Run 1	94.708 %	98.859 %	0.001 ppb	44.907 ppb	3.026 ppb	5.739 ppb	4.537 ppb	16.364 ppb	95.265 %
Concentration per Run 2	90.089 %	101.331 %	0.009 ppb	45.655 ppb	2.820 ppb	6.350 ppb	18.109 ppb	1.434 ppb	92.732 %
Concentration per Run 3	89.959 %	104.373 %	0.002 ppb	40.702 ppb	1.491 ppb	6.591 ppb	7.995 ppb	0.057 ppb	92.116 %
Concentration RSD	3.0 %	2.7 %	116.6 %	6.1 %	34.1 %	7.1 %	69.1 %	152.0 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.015 ppb	0.260 ppb	1.944 ppb	4.181 ppb	0.007 ppb	0.020 ppb	0.162 ppb	0.671 ppb	100.166 %
Concentration per Run 1	-0.037 ppb	0.245 ppb	2.336 ppb	3.429 ppb	0.007 ppb	0.030 ppb	0.166 ppb	0.667 ppb	100.286 %
Concentration per Run 2	0.015 ppb	0.265 ppb	1.671 ppb	3.754 ppb	0.011 ppb	0.011 ppb	0.206 ppb	0.751 ppb	99.253 %
Concentration per Run 3	-0.024 ppb	0.271 ppb	1.826 ppb	5.360 ppb	0.004 ppb	0.019 ppb	0.113 ppb	0.594 ppb	100.960 %
Concentration RSD	175.6 %	5.1 %	17.9 %	24.7 %	49.9 %	49.0 %	28.9 %	11.7 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.180 ppb	-0.052 ppb	0.026 ppb	0.151 ppb	96.760 %	0.005 ppb	-0.002 ppb	97.253 %	0.347 ppb
Concentration per Run 1	0.183 ppb	-0.083 ppb	0.026 ppb	0.066 ppb	97.208 %	0.004 ppb	-0.002 ppb	96.218 %	0.355 ppb
Concentration per Run 2	0.166 ppb	-0.031 ppb	0.036 ppb	0.135 ppb	95.318 %	0.006 ppb	-0.002 ppb	97.544 %	0.337 ppb
Concentration per Run 3	0.191 ppb	-0.043 ppb	0.018 ppb	0.252 ppb	97.754 %	0.005 ppb	-0.002 ppb	97.997 %	0.348 ppb
Concentration RSD	7.2 %	51.9 %	34.5 %	62.3 %	1.3 %	24.7 %	0.0 %	1.0 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.023 ppb	93.324 %	97.376 %	0.066 ppb	0.027 ppb	98.493 %
Concentration per Run 1	0.014 ppb	94.575 %	97.491 %	0.061 ppb	0.026 ppb	103.138 %
Concentration per Run 2	0.027 ppb	93.424 %	96.917 %	0.070 ppb	0.026 ppb	98.723 %
Concentration per Run 3	0.028 ppb	91.972 %	97.721 %	0.066 ppb	0.029 ppb	93.617 %
Concentration RSD	33.8 %	1.4 %	0.4 %	7.1 %	6.3 %	4.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	98	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1858756-2d5 2008SL	Rack	2		
Analysis started at:	12/5/2023 2:42:27 PM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.354 %	105.640 %	9.729 ppb	1,760.086 ppb	1,969.005 ppb	395.004 ppb	1,987.958 ppb	1,864.290 ppb	91.647 %
Concentration per Run 1	89.000 %	107.034 %	9.727 ppb	1,717.000 ppb	1,898.420 ppb	385.026 ppb	1,988.144 ppb	1,946.856 ppb	92.639 %
Concentration per Run 2	88.825 %	107.034 %	9.806 ppb	1,724.788 ppb	1,919.230 ppb	393.018 ppb	2,036.739 ppb	1,896.517 ppb	91.592 %
Concentration per Run 3	87.236 %	102.852 %	9.654 ppb	1,838.470 ppb	2,089.366 ppb	406.969 ppb	1,938.989 ppb	1,749.497 ppb	90.708 %
Concentration RSD	1.1 %	2.3 %	0.8 %	3.9 %	5.3 %	2.8 %	2.5 %	5.5 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	89.042 ppb	36.428 ppb	91.331 ppb	199.176 ppb	93.977 ppb	93.616 ppb	47.572 ppb	91.667 ppb	98.904 %
Concentration per Run 1	87.829 ppb	35.777 ppb	87.300 ppb	196.927 ppb	93.025 ppb	92.430 ppb	47.144 ppb	91.846 ppb	97.751 %
Concentration per Run 2	90.327 ppb	37.195 ppb	92.923 ppb	209.401 ppb	95.236 ppb	95.619 ppb	49.287 ppb	92.711 ppb	96.067 %
Concentration per Run 3	88.969 ppb	36.313 ppb	93.768 ppb	191.200 ppb	93.671 ppb	92.799 ppb	46.284 ppb	90.445 ppb	102.893 %
Concentration RSD	1.4 %	2.0 %	3.8 %	4.7 %	1.2 %	1.9 %	3.3 %	1.2 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	23.706 ppb	22.902 ppb	186.721 ppb	195.540 ppb	94.322 %	9.355 ppb	9.565 ppb	96.207 %	84.026 ppb
Concentration per Run 1	23.951 ppb	23.525 ppb	185.437 ppb	199.494 ppb	92.954 %	9.602 ppb	9.791 ppb	92.807 %	84.817 ppb
Concentration per Run 2	24.437 ppb	23.591 ppb	189.660 ppb	195.365 ppb	95.237 %	9.206 ppb	9.590 ppb	96.709 %	84.064 ppb
Concentration per Run 3	22.729 ppb	21.589 ppb	185.067 ppb	191.760 ppb	94.775 %	9.257 ppb	9.313 ppb	99.105 %	83.197 ppb
Concentration RSD	3.7 %	5.0 %	1.4 %	2.0 %	1.3 %	2.3 %	2.5 %	3.3 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	385.142 ppb	93.825 %	96.354 %	24.110 ppb	106.198 ppb	91.434 %
Concentration per Run 1	379.796 ppb	93.981 %	94.637 %	23.886 ppb	104.817 ppb	92.725 %
Concentration per Run 2	397.660 ppb	93.311 %	99.369 %	24.227 ppb	107.677 ppb	90.676 %
Concentration per Run 3	377.969 ppb	94.184 %	95.055 %	24.218 ppb	106.099 ppb	90.902 %
Concentration RSD	2.8 %	0.5 %	2.7 %	0.8 %	1.3 %	1.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 99
Analysis label: WG1859770-9d10 6020TL
Analysis started at: 12/5/2023 2:47:04 PM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 47
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.604 %	106.210 %	78.462 ppb	10,943.265 ppb	9,116.806 ppb	91.869 ppb	8,332.717 ppb	12,873.288 ppb	97.044 %
Concentration per Run 1	87.938 %	102.281 %	77.811 ppb	11,188.770 ppb	9,252.602 ppb	94.881 ppb	8,627.567 ppb	13,023.966 ppb	96.918 %
Concentration per Run 2	85.523 %	108.555 %	79.015 ppb	10,765.132 ppb	9,054.962 ppb	89.880 ppb	8,347.991 ppb	12,969.952 ppb	97.687 %
Concentration per Run 3	83.351 %	107.795 %	78.559 ppb	10,875.891 ppb	9,042.855 ppb	90.846 ppb	8,022.592 ppb	12,625.947 ppb	96.527 %
Concentration RSD	2.7 %	3.2 %	0.8 %	2.0 %	1.3 %	2.9 %	3.6 %	1.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	73.592 ppb	74.046 ppb	76.848 ppb	7,745.615 ppb	74.943 ppb	75.728 ppb	73.541 ppb	73.621 ppb	102.157 %
Concentration per Run 1	76.427 ppb	77.913 ppb	80.264 ppb	8,016.988 ppb	79.164 ppb	80.490 ppb	76.420 ppb	76.608 ppb	96.813 %
Concentration per Run 2	73.202 ppb	72.215 ppb	76.267 ppb	7,466.596 ppb	72.171 ppb	73.803 ppb	72.626 ppb	72.722 ppb	102.543 %
Concentration per Run 3	71.147 ppb	72.011 ppb	74.013 ppb	7,753.262 ppb	73.493 ppb	72.891 ppb	71.578 ppb	71.531 ppb	107.113 %
Concentration RSD	3.6 %	4.5 %	4.1 %	3.6 %	5.0 %	5.5 %	3.5 %	3.6 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	74.447 ppb	72.490 ppb	95.204 ppb	77.560 ppb	97.170 %	2.506 ppb	74.397 ppb	97.850 %	81.281 ppb
Concentration per Run 1	77.844 ppb	76.070 ppb	97.267 ppb	75.750 ppb	94.888 %	2.452 ppb	74.309 ppb	99.552 %	79.120 ppb
Concentration per Run 2	73.835 ppb	73.598 ppb	94.765 ppb	76.796 ppb	98.651 %	2.539 ppb	74.510 ppb	98.520 %	79.883 ppb
Concentration per Run 3	71.661 ppb	67.801 ppb	93.581 ppb	80.134 ppb	97.972 %	2.527 ppb	74.374 ppb	95.478 %	84.840 ppb
Concentration RSD	4.2 %	5.9 %	2.0 %	3.0 %	2.1 %	1.9 %	0.1 %	2.2 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	104.534 ppb	93.827 %	97.363 %	85.402 ppb	70.866 ppb	95.960 %
Concentration per Run 1	102.469 ppb	92.445 %	96.754 %	79.168 ppb	67.375 ppb	99.440 %
Concentration per Run 2	107.239 ppb	93.834 %	95.330 %	85.851 ppb	72.518 ppb	94.820 %
Concentration per Run 3	103.893 ppb	95.201 %	100.005 %	91.187 ppb	72.706 ppb	93.621 %
Concentration RSD	2.3 %	1.5 %	2.5 %	7.1 %	4.3 %	3.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	100	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1858756-3d10 2008SL	Rack	2		
Analysis started at:	12/5/2023 2:51:44 PM	Vial	8		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.136 %	110.266 %	5.472 ppb	4,548.334 ppb	3,921.518 ppb	1,516.122 ppb	1,626.879 ppb	6,628.499 ppb	90.445 %
Concentration per Run 1	89.291 %	107.795 %	5.383 ppb	4,620.126 ppb	3,963.054 ppb	1,546.947 ppb	1,641.200 ppb	6,713.070 ppb	91.124 %
Concentration per Run 2	86.012 %	109.886 %	5.541 ppb	4,628.652 ppb	3,965.549 ppb	1,501.055 ppb	1,640.962 ppb	6,868.681 ppb	89.315 %
Concentration per Run 3	86.105 %	113.118 %	5.491 ppb	4,396.223 ppb	3,835.951 ppb	1,500.363 ppb	1,598.475 ppb	6,303.747 ppb	90.896 %
Concentration RSD	2.1 %	2.4 %	1.5 %	2.9 %	1.9 %	1.8 %	1.5 %	4.4 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	44.148 ppb	17.941 ppb	550.229 ppb	1,054.147 ppb	57.428 ppb	59.210 ppb	25.705 ppb	85.846 ppb	105.443 %
Concentration per Run 1	46.244 ppb	18.602 ppb	578.072 ppb	1,079.769 ppb	60.189 ppb	61.914 ppb	26.290 ppb	89.816 ppb	100.132 %
Concentration per Run 2	44.343 ppb	17.492 ppb	530.214 ppb	1,043.985 ppb	56.120 ppb	57.917 ppb	25.666 ppb	82.911 ppb	107.252 %
Concentration per Run 3	41.856 ppb	17.729 ppb	542.402 ppb	1,038.686 ppb	55.975 ppb	57.800 ppb	25.160 ppb	84.810 ppb	108.946 %
Concentration RSD	5.0 %	3.3 %	4.5 %	2.1 %	4.2 %	4.0 %	2.2 %	4.2 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.425 ppb	12.991 ppb	167.992 ppb	93.523 ppb	96.645 %	4.824 ppb	5.178 ppb	99.402 %	41.878 ppb
Concentration per Run 1	11.937 ppb	14.128 ppb	170.987 ppb	90.247 ppb	97.143 %	4.987 ppb	5.393 ppb	97.642 %	42.055 ppb
Concentration per Run 2	11.400 ppb	12.510 ppb	167.610 ppb	94.888 ppb	96.849 %	4.780 ppb	5.002 ppb	99.963 %	41.331 ppb
Concentration per Run 3	10.938 ppb	12.336 ppb	165.381 ppb	95.434 ppb	95.942 %	4.704 ppb	5.139 ppb	100.601 %	42.248 ppb
Concentration RSD	4.4 %	7.6 %	1.7 %	3.0 %	0.6 %	3.0 %	3.8 %	1.6 %	1.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	191.415 ppb	96.275 %	97.957 %	12.231 ppb	48.504 ppb	96.012 %
Concentration per Run 1	197.304 ppb	94.825 %	96.749 %	11.948 ppb	47.194 ppb	97.675 %
Concentration per Run 2	189.022 ppb	97.091 %	99.647 %	12.322 ppb	49.329 ppb	94.885 %
Concentration per Run 3	187.920 ppb	96.909 %	97.476 %	12.423 ppb	48.988 ppb	95.476 %
Concentration RSD	2.7 %	1.3 %	1.5 %	2.0 %	2.4 %	1.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	101	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1858756-4d10 2008SL	Rack	2		
Analysis started at:	12/5/2023 2:56:24 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.508 %	108.555 %	5.444 ppb	4,438.558 ppb	3,869.491 ppb	1,506.343 ppb	1,636.036 ppb	6,647.066 ppb	89.957 %
Concentration per Run 1	85.277 %	112.358 %	5.399 ppb	4,292.740 ppb	3,809.847 ppb	1,458.436 ppb	1,595.474 ppb	6,589.883 ppb	91.003 %
Concentration per Run 2	85.800 %	102.662 %	5.464 ppb	4,586.217 ppb	4,007.614 ppb	1,579.103 ppb	1,681.351 ppb	6,700.242 ppb	90.038 %
Concentration per Run 3	82.447 %	110.647 %	5.468 ppb	4,436.716 ppb	3,791.010 ppb	1,481.490 ppb	1,631.284 ppb	6,651.072 ppb	88.829 %
Concentration RSD	2.1 %	4.8 %	0.7 %	3.3 %	3.1 %	4.3 %	2.6 %	0.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	45.288 ppb	18.362 ppb	562.617 ppb	1,062.956 ppb	58.116 ppb	59.787 ppb	26.189 ppb	87.769 ppb	100.473 %
Concentration per Run 1	46.334 ppb	18.274 ppb	556.431 ppb	1,111.715 ppb	60.636 ppb	60.622 ppb	26.487 ppb	88.729 ppb	98.149 %
Concentration per Run 2	46.364 ppb	18.275 ppb	552.471 ppb	1,050.447 ppb	56.855 ppb	60.279 ppb	26.118 ppb	87.833 ppb	100.218 %
Concentration per Run 3	43.166 ppb	18.538 ppb	578.950 ppb	1,026.707 ppb	56.859 ppb	58.459 ppb	25.963 ppb	86.744 ppb	103.051 %
Concentration RSD	4.1 %	0.8 %	2.5 %	4.1 %	3.8 %	1.9 %	1.0 %	1.1 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.922 ppb	12.182 ppb	170.457 ppb	94.990 ppb	93.972 %	4.683 ppb	5.379 ppb	97.123 %	42.522 ppb
Concentration per Run 1	12.238 ppb	12.279 ppb	171.306 ppb	91.553 ppb	91.377 %	4.719 ppb	5.395 ppb	96.464 %	42.305 ppb
Concentration per Run 2	11.740 ppb	12.635 ppb	172.425 ppb	95.087 ppb	92.648 %	4.678 ppb	5.329 ppb	97.632 %	42.681 ppb
Concentration per Run 3	11.787 ppb	11.631 ppb	167.640 ppb	98.330 ppb	97.891 %	4.650 ppb	5.414 ppb	97.273 %	42.580 ppb
Concentration RSD	2.3 %	4.2 %	1.5 %	3.6 %	3.7 %	0.7 %	0.8 %	0.6 %	0.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	195.262 ppb	93.519 %	96.635 %	11.785 ppb	48.931 ppb	94.309 %
Concentration per Run 1	194.880 ppb	92.079 %	94.876 %	11.184 ppb	47.194 ppb	95.881 %
Concentration per Run 2	197.046 ppb	93.216 %	96.085 %	11.963 ppb	49.880 ppb	94.857 %
Concentration per Run 3	193.861 ppb	95.264 %	98.943 %	12.208 ppb	49.719 ppb	92.188 %
Concentration RSD	0.8 %	1.7 %	2.2 %	4.5 %	3.1 %	2.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	102	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370494-03 2008SL	Rack	2		
Analysis started at:	12/5/2023 3:01:03 PM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.594 %	133.080 %	6.592 ppb	36,405.082 ppb	27,721.898 ppb	11,238.385 ppb	5,808.676 ppb	50,612.328 ppb	107.763 %
Concentration per Run 1	100.673 %	127.187 %	6.494 ppb	37,517.568 ppb	28,683.448 ppb	11,496.200 ppb	5,932.439 ppb	52,112.852 ppb	109.429 %
Concentration per Run 2	96.559 %	135.932 %	6.755 ppb	35,655.806 ppb	27,057.142 ppb	11,112.540 ppb	5,763.851 ppb	49,281.913 ppb	106.171 %
Concentration per Run 3	95.552 %	136.122 %	6.528 ppb	36,041.873 ppb	27,425.103 ppb	11,106.414 ppb	5,729.739 ppb	50,442.218 ppb	107.689 %
Concentration RSD	2.8 %	3.8 %	2.1 %	2.7 %	3.1 %	2.0 %	1.9 %	2.8 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.096 ppb	0.772 ppb	5,167.025 ppb	8,991.505 ppb	108.779 ppb	131.948 ppb	28.728 ppb	406.271 ppb	101.662 %
Concentration per Run 1	0.099 ppb	0.882 ppb	5,573.832 ppb	9,312.790 ppb	111.980 ppb	135.615 ppb	30.178 ppb	423.392 ppb	96.426 %
Concentration per Run 2	0.085 ppb	0.711 ppb	4,853.507 ppb	8,803.852 ppb	105.541 ppb	127.110 ppb	27.539 ppb	393.307 ppb	104.494 %
Concentration per Run 3	0.105 ppb	0.723 ppb	5,073.735 ppb	8,857.872 ppb	108.814 ppb	133.118 ppb	28.468 ppb	402.115 ppb	104.066 %
Concentration RSD	10.5 %	12.4 %	7.1 %	3.1 %	3.0 %	3.3 %	4.7 %	3.8 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.463 ppb	13.880 ppb	777.214 ppb	2.283 ppb	92.251 %	0.008 ppb	3.446 ppb	94.811 %	2.176 ppb
Concentration per Run 1	1.539 ppb	13.023 ppb	786.310 ppb	2.266 ppb	92.179 %	0.008 ppb	3.411 ppb	93.802 %	2.205 ppb
Concentration per Run 2	1.367 ppb	13.358 ppb	767.526 ppb	2.221 ppb	92.162 %	0.006 ppb	3.390 ppb	96.842 %	2.172 ppb
Concentration per Run 3	1.481 ppb	15.260 ppb	777.805 ppb	2.363 ppb	92.411 %	0.010 ppb	3.535 ppb	93.789 %	2.151 ppb
Concentration RSD	6.0 %	8.7 %	1.2 %	3.2 %	0.2 %	25.4 %	2.3 %	1.9 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	15.918 ppb	99.409 %	98.475 %	0.498 ppb	3.407 ppb	89.977 %
Concentration per Run 1	15.816 ppb	97.504 %	98.151 %	0.456 ppb	3.329 ppb	92.137 %
Concentration per Run 2	15.742 ppb	100.241 %	98.052 %	0.523 ppb	3.411 ppb	90.435 %
Concentration per Run 3	16.195 ppb	100.482 %	99.221 %	0.516 ppb	3.481 ppb	87.360 %
Concentration RSD	1.5 %	1.7 %	0.7 %	7.3 %	2.2 %	2.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 103
Analysis label: L2370494-01 2008SL
Analysis started at: 12/5/2023 3:05:43 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.920 %	105.450 %	0.485 ppb	26,919.148 ppb	8,545.154 ppb	337.335 ppb	3,038.488 ppb	22,112.350 ppb	85.328 %
Concentration per Run 1	83.040 %	110.456 %	0.461 ppb	25,321.373 ppb	8,123.730 ppb	314.942 ppb	2,843.286 ppb	22,336.456 ppb	86.897 %
Concentration per Run 2	79.136 %	102.281 %	0.496 ppb	27,473.226 ppb	8,626.918 ppb	350.906 ppb	3,221.217 ppb	22,753.138 ppb	85.259 %
Concentration per Run 3	77.583 %	103.612 %	0.499 ppb	27,962.846 ppb	8,884.814 ppb	346.156 ppb	3,050.962 ppb	21,247.456 ppb	83.829 %
Concentration RSD	3.5 %	4.2 %	4.3 %	5.2 %	4.5 %	5.8 %	6.2 %	3.5 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.018 ppb	0.062 ppb	761.673 ppb	17.426 ppb	19.648 ppb	26.776 ppb	3.764 ppb	61.534 ppb	103.102 %
Concentration per Run 1	-0.039 ppb	0.075 ppb	773.934 ppb	16.723 ppb	19.525 ppb	27.242 ppb	3.763 ppb	62.362 ppb	99.989 %
Concentration per Run 2	-0.016 ppb	0.059 ppb	767.612 ppb	19.699 ppb	20.296 ppb	27.154 ppb	3.927 ppb	61.410 ppb	101.428 %
Concentration per Run 3	0.001 ppb	0.051 ppb	743.472 ppb	15.857 ppb	19.125 ppb	25.932 ppb	3.600 ppb	60.831 ppb	107.888 %
Concentration RSD	113.4 %	19.4 %	2.1 %	11.6 %	3.0 %	2.7 %	4.3 %	1.3 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.188 ppb	0.798 ppb	176.777 ppb	0.687 ppb	90.132 %	0.006 ppb	0.779 ppb	94.447 %	0.895 ppb
Concentration per Run 1	0.318 ppb	1.016 ppb	176.392 ppb	0.547 ppb	86.053 %	0.004 ppb	0.724 ppb	93.031 %	0.811 ppb
Concentration per Run 2	0.233 ppb	0.631 ppb	174.862 ppb	0.664 ppb	92.501 %	0.007 ppb	0.854 ppb	94.092 %	0.853 ppb
Concentration per Run 3	0.014 ppb	0.745 ppb	179.076 ppb	0.850 ppb	91.842 %	0.008 ppb	0.760 ppb	96.219 %	1.021 ppb
Concentration RSD	83.4 %	24.8 %	1.2 %	22.2 %	3.9 %	37.9 %	8.6 %	1.7 %	12.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	27.806 ppb	91.646 %	93.058 %	0.132 ppb	0.136 ppb	88.826 %
Concentration per Run 1	26.684 ppb	89.910 %	90.817 %	0.100 ppb	0.133 ppb	89.555 %
Concentration per Run 2	28.000 ppb	92.169 %	91.067 %	0.132 ppb	0.138 ppb	88.304 %
Concentration per Run 3	28.736 ppb	92.860 %	97.290 %	0.163 ppb	0.136 ppb	88.618 %
Concentration RSD	3.7 %	1.7 %	3.9 %	24.1 %	2.0 %	0.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	104	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370494-02 2008SL	Rack	2		
Analysis started at:	12/5/2023 3:10:22 PM	Vial	11		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	85.369 %	121.483 %	21.025 ppb	38,675.810 ppb	46,317.558 ppb	397.674 ppb	7,016.562 ppb	80,549.090 ppb	90.480 %
Concentration per Run 1	86.592 %	121.293 %	20.969 ppb	37,900.851 ppb	44,135.189 ppb	372.732 ppb	7,138.117 ppb	80,590.331 ppb	91.571 %
Concentration per Run 2	85.086 %	123.004 %	20.976 ppb	37,299.494 ppb	44,549.155 ppb	402.713 ppb	6,945.960 ppb	80,422.641 ppb	88.357 %
Concentration per Run 3	84.427 %	120.152 %	21.130 ppb	40,827.085 ppb	50,268.329 ppb	417.576 ppb	6,965.609 ppb	80,634.297 ppb	91.513 %
Concentration RSD	1.3 %	1.2 %	0.4 %	4.9 %	7.4 %	5.7 %	1.5 %	0.1 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.049 ppb	0.084 ppb	15,183.146 ppb	17,539.463 ppb	567.742 ppb	134.729 ppb	0.112 ppb	583.905 ppb	101.481 %
Concentration per Run 1	0.086 ppb	0.093 ppb	15,264.984 ppb	17,639.971 ppb	580.369 ppb	135.165 ppb	0.065 ppb	585.363 ppb	98.466 %
Concentration per Run 2	0.037 ppb	0.111 ppb	15,427.622 ppb	17,606.549 ppb	584.056 ppb	137.819 ppb	0.139 ppb	592.478 ppb	96.681 %
Concentration per Run 3	0.023 ppb	0.048 ppb	14,856.831 ppb	17,371.868 ppb	538.800 ppb	131.203 ppb	0.133 ppb	573.874 ppb	109.296 %
Concentration RSD	68.0 %	38.7 %	1.9 %	0.8 %	4.4 %	2.5 %	36.6 %	1.6 %	6.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.771 ppb	2.967 ppb	878.131 ppb	0.506 ppb	90.205 %	0.006 ppb	0.065 ppb	95.110 %	0.592 ppb
Concentration per Run 1	0.788 ppb	3.442 ppb	868.140 ppb	0.470 ppb	88.081 %	0.006 ppb	0.083 ppb	95.734 %	0.563 ppb
Concentration per Run 2	0.890 ppb	2.847 ppb	890.951 ppb	0.489 ppb	89.675 %	0.004 ppb	0.064 ppb	91.700 %	0.562 ppb
Concentration per Run 3	0.633 ppb	2.613 ppb	875.301 ppb	0.559 ppb	92.859 %	0.008 ppb	0.049 ppb	97.896 %	0.649 ppb
Concentration RSD	16.8 %	14.4 %	1.3 %	9.2 %	2.7 %	28.1 %	26.0 %	3.3 %	8.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	17.304 ppb	93.785 %	98.005 %	0.049 ppb	0.082 ppb	90.833 %
Concentration per Run 1	16.655 ppb	93.019 %	96.069 %	0.033 ppb	0.080 ppb	91.502 %
Concentration per Run 2	17.196 ppb	94.557 %	95.449 %	0.060 ppb	0.085 ppb	90.491 %
Concentration per Run 3	18.061 ppb	93.780 %	102.495 %	0.053 ppb	0.080 ppb	90.507 %
Concentration RSD	4.1 %	0.8 %	4.0 %	28.6 %	3.5 %	0.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	105	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370494-05 2008SL	Rack	2		
Analysis started at:	12/5/2023 3:15:03 PM	Vial	12		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	77.287 %	108.302 %	0.485 ppb	27,887.497 ppb	8,826.824 ppb	343.880 ppb	3,171.686 ppb	22,938.055 ppb	84.196 %
Concentration per Run 1	77.962 %	104.183 %	0.490 ppb	28,926.082 ppb	9,246.663 ppb	343.042 ppb	3,265.231 ppb	22,814.656 ppb	84.360 %
Concentration per Run 2	78.480 %	112.928 %	0.480 ppb	27,022.348 ppb	8,467.696 ppb	327.035 ppb	3,067.067 ppb	22,658.660 ppb	85.583 %
Concentration per Run 3	75.418 %	107.795 %	0.485 ppb	27,714.061 ppb	8,766.112 ppb	361.561 ppb	3,182.759 ppb	23,340.847 ppb	82.645 %
Concentration RSD	2.1 %	4.1 %	1.0 %	3.5 %	4.5 %	5.0 %	3.1 %	1.6 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.032 ppb	0.066 ppb	784.339 ppb	22.875 ppb	19.797 ppb	28.094 ppb	4.031 ppb	63.237 ppb	101.488 %
Concentration per Run 1	-0.044 ppb	0.078 ppb	789.709 ppb	23.429 ppb	20.379 ppb	29.092 ppb	4.077 ppb	63.635 ppb	96.596 %
Concentration per Run 2	-0.039 ppb	0.082 ppb	785.004 ppb	25.529 ppb	19.938 ppb	27.800 ppb	4.149 ppb	63.592 ppb	99.099 %
Concentration per Run 3	-0.014 ppb	0.038 ppb	778.305 ppb	19.668 ppb	19.074 ppb	27.391 ppb	3.867 ppb	62.483 ppb	108.767 %
Concentration RSD	50.2 %	36.5 %	0.7 %	13.0 %	3.4 %	3.2 %	3.6 %	1.0 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.317 ppb	0.712 ppb	179.257 ppb	0.288 ppb	92.767 %	0.007 ppb	0.811 ppb	95.611 %	0.405 ppb
Concentration per Run 1	0.314 ppb	0.737 ppb	173.418 ppb	0.230 ppb	93.052 %	0.008 ppb	0.766 ppb	94.200 %	0.376 ppb
Concentration per Run 2	0.318 ppb	0.879 ppb	178.595 ppb	0.269 ppb	90.993 %	0.006 ppb	0.869 ppb	92.042 %	0.421 ppb
Concentration per Run 3	0.320 ppb	0.522 ppb	185.760 ppb	0.366 ppb	94.255 %	0.007 ppb	0.798 ppb	100.592 %	0.418 ppb
Concentration RSD	1.0 %	25.2 %	3.5 %	24.3 %	1.8 %	12.6 %	6.6 %	4.7 %	6.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	28.847 ppb	90.346 %	92.305 %	0.109 ppb	0.133 ppb	88.209 %
Concentration per Run 1	29.212 ppb	86.878 %	88.725 %	0.089 ppb	0.137 ppb	90.247 %
Concentration per Run 2	28.169 ppb	88.818 %	90.964 %	0.114 ppb	0.133 ppb	86.778 %
Concentration per Run 3	29.159 ppb	95.343 %	97.227 %	0.125 ppb	0.129 ppb	87.602 %
Concentration RSD	2.0 %	4.9 %	4.8 %	17.1 %	3.0 %	2.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 106 User name ALPHALAB\Metals-Instrument Comment <Comment>
Analysis label: CCV Rack 0
Analysis started at: 12/5/2023 3:19:43 PM Vial 9

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	73.552 %	103.169 %	63.979 ppb	6,000.190 ppb	6,402.486 ppb	64.284 ppb	6,223.459 ppb	5,866.988 ppb	89.264 %
Concentration per Run 1	74.181 %	108.365 %	63.451 ppb	6,298.763 ppb	6,114.275 ppb	63.436 ppb	5,816.922 ppb	5,445.646 ppb	89.125 %
Concentration per Run 2	74.483 %	94.297 %	63.951 ppb	6,134.477 ppb	6,655.722 ppb	65.834 ppb	6,120.936 ppb	5,987.731 ppb	90.633 %
Concentration per Run 3	71.993 %	106.844 %	64.536 ppb	5,567.329 ppb	6,437.462 ppb	63.582 ppb	6,732.518 ppb	6,167.586 ppb	88.035 %
Recovery Percentage 1			106.632 %	100.003 %	106.708 %	107.140 %	103.724 %	97.783 %	
Concentration RSD	1.8 %	7.5 %	0.8 %	6.4 %	4.3 %	2.1 %	7.5 %	6.4 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.418 ppb	58.637 ppb	60.002 ppb	6,241.399 ppb	63.224 ppb	62.808 ppb	61.493 ppb	60.391 ppb	100.137 %
Concentration per Run 1	54.878 ppb	56.513 ppb	57.693 ppb	6,155.603 ppb	62.228 ppb	63.893 ppb	62.459 ppb	60.268 ppb	95.593 %
Concentration per Run 2	65.217 ppb	61.999 ppb	64.796 ppb	6,519.750 ppb	67.657 ppb	65.613 ppb	62.675 ppb	62.213 ppb	96.133 %
Concentration per Run 3	58.158 ppb	57.398 ppb	57.518 ppb	6,048.843 ppb	59.786 ppb	58.919 ppb	59.344 ppb	58.690 ppb	108.683 %
Recovery Percentage 1	99.030 %	97.728 %	100.004 %	104.023 %	105.373 %	104.680 %	102.488 %	100.651 %	
Concentration RSD	8.9 %	5.0 %	6.9 %	4.0 %	6.4 %	5.5 %	3.0 %	2.9 %	7.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.069 ppb	58.519 ppb	59.069 ppb	59.914 ppb	93.290 %	59.605 ppb	59.582 ppb	94.570 %	61.833 ppb
Concentration per Run 1	61.237 ppb	56.352 ppb	57.906 ppb	57.814 ppb	91.359 %	59.709 ppb	59.059 ppb	91.012 %	60.394 ppb
Concentration per Run 2	62.638 ppb	58.006 ppb	58.792 ppb	61.611 ppb	92.610 %	60.441 ppb	60.853 ppb	90.300 %	64.691 ppb
Concentration per Run 3	59.332 ppb	61.200 ppb	60.510 ppb	60.316 ppb	95.903 %	58.664 ppb	58.833 ppb	102.398 %	60.413 ppb
Recovery Percentage 1	101.782 %	97.532 %	98.449 %	99.856 %		99.342 %	99.303 %		103.055 %
Concentration RSD	2.7 %	4.2 %	2.2 %	3.2 %	2.5 %	1.5 %	1.9 %	7.2 %	4.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	62.641 ppb	90.946 %	93.051 %	57.561 ppb	55.103 ppb	92.177 %
Concentration per Run 1	60.693 ppb	89.862 %	91.620 %	52.387 ppb	51.854 ppb	96.056 %
Concentration per Run 2	65.070 ppb	90.095 %	87.415 %	59.326 ppb	55.544 ppb	89.632 %
Concentration per Run 3	62.159 ppb	92.883 %	100.117 %	60.970 ppb	57.912 ppb	90.841 %
Recovery Percentage 1	104.401 %			95.935 %	91.839 %	
Concentration RSD	3.6 %	1.8 %	7.0 %	7.9 %	5.5 %	3.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	107	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 3:24:26 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.425 %	100.824 %	0.013 ppb	21.246 ppb	0.377 ppb	-0.003 ppb	12.196 ppb	0.450 ppb	80.659 %
Concentration per Run 1	75.511 %	98.669 %	0.016 ppb	21.665 ppb	0.214 ppb	0.591 ppb	18.431 ppb	-5.810 ppb	79.198 %
Concentration per Run 2	76.579 %	94.297 %	0.010 ppb	27.023 ppb	0.580 ppb	-0.126 ppb	6.629 ppb	4.258 ppb	81.544 %
Concentration per Run 3	74.186 %	109.506 %	0.011 ppb	15.050 ppb	0.335 ppb	-0.474 ppb	11.527 ppb	2.903 ppb	81.234 %
Recovery Percentage 1			2.501 %	21.246 %	0.538 %	-0.030 %	12.196 %	0.450 %	
Concentration RSD	1.6 %	7.8 %	24.5 %	28.2 %	49.6 %	17,860.3 %	48.6 %	1,213.6 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.032 ppb	0.023 ppb	0.082 ppb	14.370 ppb	-0.002 ppb	0.000 ppb	-0.021 ppb	0.108 ppb	98.106 %
Concentration per Run 1	-0.036 ppb	0.025 ppb	0.110 ppb	15.070 ppb	-0.006 ppb	0.023 ppb	-0.012 ppb	0.131 ppb	97.173 %
Concentration per Run 2	-0.050 ppb	0.004 ppb	-0.006 ppb	15.028 ppb	-0.001 ppb	0.000 ppb	-0.025 ppb	0.113 ppb	93.853 %
Concentration per Run 3	-0.012 ppb	0.040 ppb	0.142 ppb	13.012 ppb	-0.001 ppb	-0.021 ppb	-0.027 ppb	0.080 ppb	103.292 %
Recovery Percentage 1	-0.650 %	2.285 %	8.196 %	28.740 %	-0.462 %	0.022 %	-2.134 %	2.155 %	
Concentration RSD	59.3 %	79.1 %	95.0 %	8.2 %	122.4 %	5,057.6 %	39.7 %	24.2 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.272 ppb	0.374 ppb	0.009 ppb	0.921 ppb	93.610 %	0.013 ppb	0.002 ppb	94.533 %	0.261 ppb
Concentration per Run 1	0.221 ppb	0.418 ppb	0.013 ppb	0.885 ppb	92.102 %	0.014 ppb	0.004 ppb	92.525 %	0.224 ppb
Concentration per Run 2	0.422 ppb	0.327 ppb	0.022 ppb	0.969 ppb	90.822 %	0.016 ppb	0.000 ppb	89.863 %	0.297 ppb
Concentration per Run 3	0.174 ppb	0.377 ppb	-0.009 ppb	0.908 ppb	97.905 %	0.011 ppb	0.002 ppb	101.210 %	0.263 ppb
Recovery Percentage 1	54.488 %	7.481 %	0.086 %	46.043 %		3.355 %	1.057 %		6.535 %
Concentration RSD	48.4 %	12.2 %	186.1 %	4.7 %	4.0 %	19.1 %	95.5 %	6.3 %	14.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.010 ppb	89.295 %	90.804 %	0.453 ppb	0.015 ppb	89.898 %
Concentration per Run 1	-0.013 ppb	92.413 %	91.414 %	0.341 ppb	0.015 ppb	95.803 %
Concentration per Run 2	0.002 ppb	86.504 %	86.754 %	0.519 ppb	0.015 ppb	88.587 %
Concentration per Run 3	0.041 ppb	88.967 %	94.243 %	0.499 ppb	0.015 ppb	85.302 %
Recovery Percentage 1	2.001 %			45.325 %	1.492 %	
Concentration RSD	279.0 %	3.3 %	4.2 %	21.6 %	1.9 %	6.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	108	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859459-1 6020TL	Rack	2		
Analysis started at:	12/5/2023 3:56:50 PM	Vial	13		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.124 %	102.979 %	0.007 ppb	11.406 ppb	1.152 ppb	2.108 ppb	-0.743 ppb	5.552 ppb	103.404 %
Concentration per Run 1	84.678 %	101.521 %	0.006 ppb	10.415 ppb	1.740 ppb	2.683 ppb	8.247 ppb	8.069 ppb	104.767 %
Concentration per Run 2	84.623 %	101.901 %	0.008 ppb	9.066 ppb	1.178 ppb	2.273 ppb	-1.704 ppb	1.561 ppb	102.960 %
Concentration per Run 3	83.071 %	105.513 %	0.007 ppb	14.737 ppb	0.538 ppb	1.368 ppb	-8.773 ppb	7.025 ppb	102.485 %
Concentration RSD	1.1 %	2.1 %	14.0 %	26.0 %	52.2 %	31.9 %	1,150.7 %	63.0 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.031 ppb	0.027 ppb	0.030 ppb	4.209 ppb	-0.001 ppb	-0.004 ppb	0.024 ppb	0.178 ppb	95.562 %
Concentration per Run 1	-0.020 ppb	0.065 ppb	0.045 ppb	6.076 ppb	0.009 ppb	0.009 ppb	-0.004 ppb	0.176 ppb	94.623 %
Concentration per Run 2	-0.051 ppb	0.013 ppb	0.060 ppb	2.826 ppb	-0.004 ppb	-0.011 ppb	0.026 ppb	0.153 ppb	93.440 %
Concentration per Run 3	-0.023 ppb	0.004 ppb	-0.014 ppb	3.725 ppb	-0.007 ppb	-0.009 ppb	0.050 ppb	0.206 ppb	98.622 %
Concentration RSD	53.7 %	120.4 %	129.7 %	39.9 %	1,443.0 %	274.9 %	111.6 %	14.8 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.377 ppb	0.100 ppb	0.005 ppb	0.503 ppb	92.130 %	0.004 ppb	-0.001 ppb	92.876 %	0.277 ppb
Concentration per Run 1	0.426 ppb	0.198 ppb	0.015 ppb	0.592 ppb	93.135 %	0.006 ppb	-0.002 ppb	94.979 %	0.253 ppb
Concentration per Run 2	0.347 ppb	-0.043 ppb	-0.010 ppb	0.425 ppb	91.756 %	0.002 ppb	-0.002 ppb	88.448 %	0.246 ppb
Concentration per Run 3	0.357 ppb	0.146 ppb	0.010 ppb	0.492 ppb	91.498 %	0.002 ppb	0.000 ppb	95.201 %	0.332 ppb
Concentration RSD	11.4 %	126.9 %	269.7 %	16.7 %	1.0 %	66.1 %	96.3 %	4.1 %	17.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.020 ppb	88.133 %	88.604 %	0.119 ppb	-0.001 ppb	168.859 %
Concentration per Run 1	0.029 ppb	87.728 %	89.001 %	0.121 ppb	-0.002 ppb	224.466 %
Concentration per Run 2	0.002 ppb	87.629 %	87.842 %	0.130 ppb	-0.001 ppb	154.726 %
Concentration per Run 3	0.029 ppb	89.043 %	88.969 %	0.107 ppb	0.000 ppb	127.384 %
Concentration RSD	79.1 %	0.9 %	0.7 %	10.0 %	115.9 %	29.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	109	User name	ALPHALAB\Metals-Instrument	Comment	Sb rr
Analysis label:	WG1858756-2d10 2008SL	Rack	2		
Analysis started at:	12/5/2023 4:07:44 PM	Vial	35		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.417 %	102.091 %	5.055 ppb	968.716 ppb	1,034.477 ppb	209.474 ppb	1,033.088 ppb	985.795 ppb	91.988 %
Concentration per Run 1	87.699 %	96.578 %	5.063 ppb	1,019.418 ppb	1,086.335 ppb	221.263 ppb	1,077.037 ppb	989.627 ppb	91.679 %
Concentration per Run 2	86.805 %	101.141 %	5.046 ppb	963.793 ppb	1,039.086 ppb	207.817 ppb	1,056.910 ppb	1,014.095 ppb	92.440 %
Concentration per Run 3	84.746 %	108.555 %	5.056 ppb	922.939 ppb	978.012 ppb	199.343 ppb	965.317 ppb	953.663 ppb	91.845 %
Concentration RSD	1.8 %	5.9 %	0.2 %	5.0 %	5.2 %	5.3 %	5.8 %	3.1 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.617 ppb	18.612 ppb	48.044 ppb	103.374 ppb	49.073 ppb	48.323 ppb	24.372 ppb	46.607 ppb	103.633 %
Concentration per Run 1	47.536 ppb	18.766 ppb	49.091 ppb	96.010 ppb	48.790 ppb	48.292 ppb	24.153 ppb	46.762 ppb	103.995 %
Concentration per Run 2	45.637 ppb	18.507 ppb	45.170 ppb	103.774 ppb	49.168 ppb	48.136 ppb	24.691 ppb	46.522 ppb	105.666 %
Concentration per Run 3	46.678 ppb	18.564 ppb	49.870 ppb	110.339 ppb	49.261 ppb	48.541 ppb	24.272 ppb	46.536 ppb	101.239 %
Concentration RSD	2.0 %	0.7 %	5.2 %	6.9 %	0.5 %	0.4 %	1.2 %	0.3 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.059 ppb	11.774 ppb	91.542 ppb	100.895 ppb	96.532 %	4.810 ppb	5.045 ppb	95.158 %	43.374 ppb
Concentration per Run 1	12.299 ppb	12.292 ppb	89.467 ppb	100.156 ppb	98.657 %	4.692 ppb	4.958 ppb	93.730 %	42.610 ppb
Concentration per Run 2	11.605 ppb	10.559 ppb	91.653 ppb	99.381 ppb	95.295 %	4.918 ppb	5.055 ppb	97.459 %	42.866 ppb
Concentration per Run 3	12.273 ppb	12.470 ppb	93.505 ppb	103.148 ppb	95.645 %	4.821 ppb	5.120 ppb	94.285 %	44.645 ppb
Concentration RSD	3.3 %	9.0 %	2.2 %	2.0 %	1.9 %	2.4 %	1.6 %	2.1 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	191.303 ppb	92.630 %	95.195 %	12.119 ppb	49.417 ppb	92.979 %
Concentration per Run 1	192.276 ppb	92.596 %	96.235 %	11.970 ppb	48.392 ppb	93.611 %
Concentration per Run 2	189.138 ppb	92.435 %	93.961 %	12.052 ppb	50.329 ppb	92.664 %
Concentration per Run 3	192.494 ppb	92.861 %	95.388 %	12.335 ppb	49.529 ppb	92.662 %
Concentration RSD	1.0 %	0.2 %	1.2 %	1.6 %	2.0 %	0.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	110	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859459-2d10 6020TL	Rack	2		
Analysis started at:	12/5/2023 4:12:22 PM	Vial	14		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.867 %	107.098 %	5.003 ppb	891.446 ppb	979.961 ppb	200.365 ppb	994.035 ppb	893.752 ppb	88.863 %
Concentration per Run 1	84.788 %	106.654 %	4.935 ppb	873.552 ppb	970.444 ppb	196.171 ppb	993.997 ppb	870.292 ppb	88.313 %
Concentration per Run 2	82.342 %	102.281 %	4.980 ppb	922.131 ppb	1,025.697 ppb	210.744 ppb	1,013.406 ppb	901.995 ppb	89.290 %
Concentration per Run 3	81.472 %	112.358 %	5.096 ppb	878.655 ppb	943.743 ppb	194.180 ppb	974.702 ppb	908.969 ppb	88.986 %
Concentration RSD	2.1 %	4.7 %	1.7 %	3.0 %	4.3 %	4.5 %	1.9 %	2.3 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	44.441 ppb	17.697 ppb	47.203 ppb	101.791 ppb	48.077 ppb	48.292 ppb	23.931 ppb	46.539 ppb	98.870 %
Concentration per Run 1	43.131 ppb	17.034 ppb	44.842 ppb	97.853 ppb	47.161 ppb	47.849 ppb	23.251 ppb	45.183 ppb	97.894 %
Concentration per Run 2	45.983 ppb	18.093 ppb	47.137 ppb	101.585 ppb	48.882 ppb	48.047 ppb	24.727 ppb	48.148 ppb	98.617 %
Concentration per Run 3	44.208 ppb	17.963 ppb	49.628 ppb	105.937 ppb	48.188 ppb	48.981 ppb	23.814 ppb	46.287 ppb	100.100 %
Concentration RSD	3.2 %	3.3 %	5.1 %	4.0 %	1.8 %	1.3 %	3.1 %	3.2 %	1.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.138 ppb	12.045 ppb	92.895 ppb	96.680 ppb	93.811 %	4.687 ppb	4.953 ppb	97.024 %	38.283 ppb
Concentration per Run 1	12.345 ppb	10.695 ppb	90.500 ppb	92.086 ppb	94.156 %	4.803 ppb	4.886 ppb	98.146 %	37.237 ppb
Concentration per Run 2	12.232 ppb	10.478 ppb	92.150 ppb	96.592 ppb	92.577 %	4.629 ppb	4.894 ppb	95.882 %	37.504 ppb
Concentration per Run 3	11.838 ppb	14.962 ppb	96.036 ppb	101.363 ppb	94.701 %	4.630 ppb	5.080 ppb	97.045 %	40.108 ppb
Concentration RSD	2.2 %	21.0 %	3.1 %	4.8 %	1.2 %	2.1 %	2.2 %	1.2 %	4.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	183.435 ppb	93.119 %	96.197 %	11.635 ppb	47.395 ppb	92.693 %
Concentration per Run 1	179.836 ppb	90.799 %	93.242 %	11.260 ppb	45.477 ppb	96.456 %
Concentration per Run 2	184.040 ppb	92.890 %	95.971 %	11.994 ppb	48.628 ppb	90.983 %
Concentration per Run 3	186.428 ppb	95.667 %	99.377 %	11.652 ppb	48.081 ppb	90.640 %
Concentration RSD	1.8 %	2.6 %	3.2 %	3.2 %	3.6 %	3.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	111	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859459-3d10 6020TL	Rack	2		
Analysis started at:	12/5/2023 4:17:02 PM	Vial	16		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.976 %	108.745 %	4.780 ppb	12,791.635 ppb	8,720.944 ppb	185.783 ppb	1,200.644 ppb	12,967.481 ppb	91.458 %
Concentration per Run 1	85.146 %	107.795 %	4.753 ppb	12,434.957 ppb	8,396.664 ppb	174.046 ppb	1,152.991 ppb	12,868.032 ppb	90.938 %
Concentration per Run 2	82.975 %	105.133 %	4.734 ppb	13,094.998 ppb	8,974.619 ppb	188.529 ppb	1,243.586 ppb	12,728.984 ppb	90.649 %
Concentration per Run 3	80.807 %	113.308 %	4.852 ppb	12,844.950 ppb	8,791.548 ppb	194.773 ppb	1,205.355 ppb	13,305.426 ppb	92.788 %
Concentration RSD	2.6 %	3.8 %	1.3 %	2.6 %	3.4 %	5.7 %	3.8 %	2.3 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	41.823 ppb	16.625 ppb	101.927 ppb	240.037 ppb	44.638 ppb	44.982 ppb	21.731 ppb	43.314 ppb	102.012 %
Concentration per Run 1	41.568 ppb	15.890 ppb	101.507 ppb	246.172 ppb	44.575 ppb	46.411 ppb	21.826 ppb	44.157 ppb	100.218 %
Concentration per Run 2	43.547 ppb	17.958 ppb	104.729 ppb	250.586 ppb	46.792 ppb	46.416 ppb	22.528 ppb	44.008 ppb	96.626 %
Concentration per Run 3	40.355 ppb	16.026 ppb	99.543 ppb	223.354 ppb	42.548 ppb	42.120 ppb	20.841 ppb	41.778 ppb	109.192 %
Concentration RSD	3.9 %	7.0 %	2.6 %	6.1 %	4.8 %	5.5 %	3.9 %	3.1 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.398 ppb	10.795 ppb	161.206 ppb	92.517 ppb	93.082 %	4.427 ppb	4.529 ppb	99.511 %	47.327 ppb
Concentration per Run 1	11.097 ppb	10.759 ppb	155.220 ppb	88.915 ppb	91.364 %	4.456 ppb	4.503 ppb	95.878 %	47.112 ppb
Concentration per Run 2	11.958 ppb	12.333 ppb	165.427 ppb	94.153 ppb	91.437 %	4.426 ppb	4.512 ppb	100.431 %	45.804 ppb
Concentration per Run 3	11.138 ppb	9.293 ppb	162.972 ppb	94.485 ppb	96.445 %	4.399 ppb	4.572 ppb	102.223 %	49.065 ppb
Concentration RSD	4.3 %	14.1 %	3.3 %	3.4 %	3.1 %	0.6 %	0.8 %	3.3 %	3.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	263.985 ppb	92.908 %	95.845 %	10.919 ppb	45.607 ppb	91.176 %
Concentration per Run 1	258.087 ppb	90.735 %	93.527 %	10.657 ppb	43.907 ppb	91.583 %
Concentration per Run 2	255.942 ppb	92.238 %	92.281 %	10.999 ppb	45.656 ppb	90.863 %
Concentration per Run 3	277.926 ppb	95.751 %	101.728 %	11.102 ppb	47.257 ppb	91.083 %
Concentration RSD	4.6 %	2.8 %	5.4 %	2.1 %	3.7 %	0.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 112
Analysis label: WG1859459-4d10 6020TL
Analysis started at: 12/5/2023 4:21:41 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 17
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.863 %	101.584 %	4.983 ppb	14,086.618 ppb	9,684.253 ppb	207.070 ppb	1,294.800 ppb	13,722.771 ppb	89.079 %
Concentration per Run 1	84.434 %	99.810 %	4.954 ppb	14,280.256 ppb	9,782.043 ppb	202.109 ppb	1,253.673 ppb	13,694.411 ppb	90.656 %
Concentration per Run 2	82.002 %	99.620 %	5.005 ppb	14,385.448 ppb	9,812.182 ppb	209.535 ppb	1,298.491 ppb	13,616.165 ppb	89.339 %
Concentration per Run 3	79.154 %	105.323 %	4.989 ppb	13,594.151 ppb	9,458.533 ppb	209.565 ppb	1,332.238 ppb	13,857.739 ppb	87.242 %
Concentration RSD	3.2 %	3.2 %	0.5 %	3.1 %	2.0 %	2.1 %	3.0 %	0.9 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	44.465 ppb	17.675 ppb	105.183 ppb	247.626 ppb	46.655 ppb	47.163 ppb	23.028 ppb	44.905 ppb	102.991 %
Concentration per Run 1	43.735 ppb	17.162 ppb	101.553 ppb	240.146 ppb	47.546 ppb	47.003 ppb	22.400 ppb	44.696 ppb	102.430 %
Concentration per Run 2	46.129 ppb	18.062 ppb	107.078 ppb	247.242 ppb	47.670 ppb	48.154 ppb	24.100 ppb	46.052 ppb	97.942 %
Concentration per Run 3	43.530 ppb	17.802 ppb	106.917 ppb	255.491 ppb	44.748 ppb	46.333 ppb	22.584 ppb	43.967 ppb	108.600 %
Concentration RSD	3.2 %	2.6 %	3.0 %	3.1 %	3.5 %	2.0 %	4.1 %	2.4 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.610 ppb	12.411 ppb	169.467 ppb	97.437 ppb	93.648 %	4.710 ppb	4.967 ppb	96.048 %	48.662 ppb
Concentration per Run 1	11.374 ppb	11.759 ppb	164.112 ppb	96.951 ppb	91.684 %	4.700 ppb	5.102 ppb	92.798 %	48.184 ppb
Concentration per Run 2	12.305 ppb	13.710 ppb	168.942 ppb	98.660 ppb	93.010 %	4.763 ppb	4.979 ppb	93.802 %	48.164 ppb
Concentration per Run 3	11.149 ppb	11.763 ppb	175.345 ppb	96.700 ppb	96.248 %	4.666 ppb	4.820 ppb	101.544 %	49.639 ppb
Concentration RSD	5.3 %	9.1 %	3.3 %	1.1 %	2.5 %	1.0 %	2.8 %	5.0 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	280.904 ppb	93.847 %	95.626 %	11.816 ppb	49.168 ppb	87.874 %
Concentration per Run 1	270.079 ppb	91.253 %	93.005 %	11.722 ppb	48.778 ppb	87.444 %
Concentration per Run 2	284.358 ppb	93.705 %	92.686 %	11.872 ppb	49.067 ppb	87.437 %
Concentration per Run 3	288.276 ppb	96.583 %	101.186 %	11.853 ppb	49.658 ppb	88.740 %
Concentration RSD	3.4 %	2.8 %	5.0 %	0.7 %	0.9 %	0.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	113	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859459-5d10 6020TL	Rack	2		
Analysis started at:	12/5/2023 4:26:20 PM	Vial	18		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.354 %	102.472 %	49.817 ppb	17,653.815 ppb	13,480.265 ppb	51.859 ppb	5,346.340 ppb	17,179.518 ppb	92.874 %
Concentration per Run 1	81.269 %	106.464 %	50.036 ppb	17,232.635 ppb	12,810.800 ppb	47.670 ppb	5,025.208 ppb	16,286.684 ppb	91.830 %
Concentration per Run 2	80.979 %	102.091 %	49.641 ppb	17,057.369 ppb	13,252.785 ppb	48.842 ppb	5,376.088 ppb	17,603.675 ppb	93.613 %
Concentration per Run 3	78.815 %	98.859 %	49.772 ppb	18,671.442 ppb	14,377.210 ppb	59.066 ppb	5,637.725 ppb	17,648.195 ppb	93.180 %
Concentration RSD	1.7 %	3.7 %	0.4 %	5.0 %	6.0 %	12.1 %	5.7 %	4.5 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	45.988 ppb	44.869 ppb	107.575 ppb	5,002.676 ppb	47.536 ppb	49.300 ppb	46.402 ppb	46.785 ppb	103.083 %
Concentration per Run 1	42.892 ppb	43.333 ppb	102.422 ppb	4,911.115 ppb	46.938 ppb	49.231 ppb	46.469 ppb	46.745 ppb	101.329 %
Concentration per Run 2	47.345 ppb	45.636 ppb	110.717 ppb	5,149.415 ppb	49.596 ppb	51.142 ppb	48.427 ppb	47.543 ppb	97.661 %
Concentration per Run 3	47.726 ppb	45.636 ppb	109.584 ppb	4,947.498 ppb	46.075 ppb	47.526 ppb	44.311 ppb	46.066 ppb	110.258 %
Concentration RSD	5.8 %	3.0 %	4.2 %	2.6 %	3.9 %	3.7 %	4.4 %	1.6 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	47.412 ppb	47.495 ppb	121.019 ppb	48.776 ppb	93.501 %	1.622 ppb	47.364 ppb	97.150 %	49.529 ppb
Concentration per Run 1	47.551 ppb	45.599 ppb	118.449 ppb	47.553 ppb	90.025 %	1.638 ppb	47.546 ppb	92.069 %	51.418 ppb
Concentration per Run 2	48.032 ppb	48.930 ppb	120.921 ppb	49.273 ppb	93.436 %	1.606 ppb	47.916 ppb	93.412 %	49.598 ppb
Concentration per Run 3	46.652 ppb	47.957 ppb	123.689 ppb	49.501 ppb	97.041 %	1.620 ppb	46.629 ppb	105.970 %	47.572 ppb
Concentration RSD	1.5 %	3.6 %	2.2 %	2.2 %	3.8 %	1.0 %	1.4 %	7.9 %	3.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	144.998 ppb	94.036 %	96.051 %	46.969 ppb	45.481 ppb	90.142 %
Concentration per Run 1	146.770 ppb	89.977 %	90.557 %	44.760 ppb	44.440 ppb	90.243 %
Concentration per Run 2	147.984 ppb	92.912 %	95.163 %	47.345 ppb	46.143 ppb	88.482 %
Concentration per Run 3	140.240 ppb	99.219 %	102.432 %	48.801 ppb	45.860 ppb	91.700 %
Concentration RSD	2.9 %	5.0 %	6.2 %	4.4 %	2.0 %	1.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 114
Analysis label: WG1859459-6d5 6020TL
Analysis started at: 12/5/2023 4:31:00 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 19
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.013 %	99.683 %	0.011 ppb	24,317.972 ppb	17,136.181 ppb	1.764 ppb	527.500 ppb	24,351.891 ppb	90.638 %
Concentration per Run 1	82.771 %	92.585 %	0.007 ppb	24,971.869 ppb	16,481.380 ppb	2.206 ppb	538.263 ppb	23,701.595 ppb	93.281 %
Concentration per Run 2	81.098 %	101.141 %	0.015 ppb	23,732.679 ppb	17,684.021 ppb	1.288 ppb	493.510 ppb	23,642.743 ppb	91.534 %
Concentration per Run 3	79.172 %	105.323 %	0.011 ppb	24,249.367 ppb	17,243.141 ppb	1.798 ppb	550.727 ppb	25,711.336 ppb	87.099 %
Concentration RSD	2.2 %	6.5 %	34.8 %	2.6 %	3.6 %	26.1 %	5.7 %	4.8 %	3.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.013 ppb	0.010 ppb	113.967 ppb	292.968 ppb	0.719 ppb	2.204 ppb	0.077 ppb	0.266 ppb	101.641 %
Concentration per Run 1	-0.005 ppb	0.035 ppb	113.325 ppb	289.382 ppb	0.741 ppb	2.299 ppb	0.069 ppb	0.306 ppb	98.789 %
Concentration per Run 2	0.029 ppb	0.009 ppb	110.005 ppb	293.118 ppb	0.710 ppb	2.259 ppb	0.076 ppb	0.193 ppb	100.817 %
Concentration per Run 3	0.017 ppb	-0.012 ppb	118.570 ppb	296.403 ppb	0.706 ppb	2.053 ppb	0.087 ppb	0.299 ppb	105.316 %
Concentration RSD	125.2 %	225.3 %	3.8 %	1.2 %	2.7 %	6.0 %	11.7 %	23.8 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.444 ppb	0.214 ppb	140.491 ppb	1.402 ppb	93.050 %	0.002 ppb	0.009 ppb	95.789 %	0.450 ppb
Concentration per Run 1	0.532 ppb	0.303 ppb	135.978 ppb	1.301 ppb	93.324 %	0.002 ppb	0.006 ppb	91.720 %	0.415 ppb
Concentration per Run 2	0.346 ppb	0.236 ppb	138.650 ppb	1.407 ppb	90.667 %	0.003 ppb	0.010 ppb	93.518 %	0.452 ppb
Concentration per Run 3	0.452 ppb	0.104 ppb	146.846 ppb	1.498 ppb	95.159 %	0.002 ppb	0.009 ppb	102.129 %	0.483 ppb
Concentration RSD	21.0 %	47.2 %	4.0 %	7.0 %	2.4 %	22.6 %	24.4 %	5.8 %	7.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	184.342 ppb	94.152 %	96.115 %	0.371 ppb	0.035 ppb	86.758 %
Concentration per Run 1	182.037 ppb	93.320 %	93.802 %	0.305 ppb	0.034 ppb	87.294 %
Concentration per Run 2	185.872 ppb	92.650 %	95.592 %	0.425 ppb	0.034 ppb	86.565 %
Concentration per Run 3	185.117 ppb	96.485 %	98.952 %	0.384 ppb	0.036 ppb	86.414 %
Concentration RSD	1.1 %	2.2 %	2.7 %	16.5 %	3.9 %	0.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	115	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370599-05 6020TL	Rack	2		
Analysis started at:	12/5/2023 4:35:39 PM	Vial	15		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.407 %	98.289 %	0.011 ppb	131,668.837 ppb	98,109.750 ppb	8.005 ppb	2,877.569 ppb	132,438.823 ppb	90.200 %
Concentration per Run 1	82.259 %	92.966 %	0.009 ppb	136,327.594 ppb	99,995.768 ppb	8.500 ppb	2,961.123 ppb	137,036.087 ppb	91.040 %
Concentration per Run 2	79.850 %	102.281 %	0.007 ppb	124,515.952 ppb	93,742.784 ppb	8.071 ppb	2,619.804 ppb	124,091.751 ppb	90.514 %
Concentration per Run 3	79.112 %	99.620 %	0.016 ppb	134,162.964 ppb	100,590.697 ppb	7.443 ppb	3,051.781 ppb	136,188.633 ppb	89.046 %
Concentration RSD	2.0 %	4.9 %	41.9 %	4.8 %	3.9 %	6.6 %	7.9 %	5.5 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.107 ppb	0.080 ppb	624.030 ppb	1,604.535 ppb	3.866 ppb	11.328 ppb	0.294 ppb	1.312 ppb	96.776 %
Concentration per Run 1	0.109 ppb	0.083 ppb	643.947 ppb	1,696.343 ppb	4.124 ppb	12.082 ppb	0.313 ppb	1.325 ppb	88.586 %
Concentration per Run 2	0.083 ppb	0.075 ppb	601.983 ppb	1,536.569 ppb	3.815 ppb	10.853 ppb	0.314 ppb	1.311 ppb	97.602 %
Concentration per Run 3	0.128 ppb	0.081 ppb	626.160 ppb	1,580.693 ppb	3.659 ppb	11.050 ppb	0.256 ppb	1.301 ppb	104.141 %
Concentration RSD	21.2 %	5.3 %	3.4 %	5.1 %	6.1 %	5.8 %	11.4 %	0.9 %	8.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.696 ppb	0.208 ppb	802.398 ppb	1.002 ppb	88.991 %	0.000 ppb	0.038 ppb	91.556 %	0.358 ppb
Concentration per Run 1	0.876 ppb	-0.035 ppb	816.338 ppb	0.945 ppb	85.199 %	0.000 ppb	0.025 ppb	84.784 %	0.335 ppb
Concentration per Run 2	0.594 ppb	0.184 ppb	774.609 ppb	0.964 ppb	89.433 %	0.000 ppb	0.050 ppb	91.303 %	0.369 ppb
Concentration per Run 3	0.619 ppb	0.476 ppb	816.248 ppb	1.098 ppb	92.342 %	-0.001 ppb	0.039 ppb	98.581 %	0.368 ppb
Concentration RSD	22.5 %	123.0 %	3.0 %	8.3 %	4.0 %	544.4 %	33.4 %	7.5 %	5.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1,020.528 ppb	90.892 %	94.784 %	0.126 ppb	0.065 ppb	80.863 %
Concentration per Run 1	1,068.682 ppb	86.007 %	89.400 %	0.082 ppb	0.066 ppb	82.424 %
Concentration per Run 2	983.217 ppb	92.289 %	93.674 %	0.144 ppb	0.063 ppb	80.706 %
Concentration per Run 3	1,009.685 ppb	94.380 %	101.277 %	0.150 ppb	0.067 ppb	79.458 %
Concentration RSD	4.3 %	4.8 %	6.3 %	30.0 %	3.2 %	1.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	116	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370562-01 6020TL	Rack	2		
Analysis started at:	12/5/2023 4:40:19 PM	Vial	20		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.531 %	91.635 %	0.003 ppb	276,133.235 ppb	59,213.332 ppb	5.249 ppb	1,469.912 ppb	95,788.112 ppb	93.801 %
Concentration per Run 1	82.077 %	93.156 %	0.008 ppb	269,172.529 ppb	58,133.291 ppb	4.923 ppb	1,417.892 ppb	91,285.572 ppb	94.468 %
Concentration per Run 2	81.532 %	87.642 %	-0.001 ppb	282,517.805 ppb	59,387.631 ppb	5.387 ppb	1,505.925 ppb	97,314.336 ppb	94.310 %
Concentration per Run 3	77.983 %	94.106 %	0.002 ppb	276,709.370 ppb	60,119.073 ppb	5.436 ppb	1,485.919 ppb	98,764.428 ppb	92.625 %
Concentration RSD	2.8 %	3.8 %	154.8 %	2.4 %	1.7 %	5.4 %	3.1 %	4.1 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.006 ppb	0.077 ppb	981.765 ppb	9,507.191 ppb	0.184 ppb	0.489 ppb	0.088 ppb	0.353 ppb	94.599 %
Concentration per Run 1	-0.008 ppb	0.075 ppb	945.856 ppb	9,626.365 ppb	0.191 ppb	0.541 ppb	0.106 ppb	0.358 ppb	90.087 %
Concentration per Run 2	0.009 ppb	0.067 ppb	1,003.560 ppb	9,516.264 ppb	0.178 ppb	0.369 ppb	0.081 ppb	0.409 ppb	92.358 %
Concentration per Run 3	0.016 ppb	0.088 ppb	995.878 ppb	9,378.945 ppb	0.184 ppb	0.559 ppb	0.076 ppb	0.291 ppb	101.353 %
Concentration RSD	212.1 %	13.7 %	3.2 %	1.3 %	3.3 %	21.4 %	17.9 %	16.8 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.185 ppb	-0.050 ppb	347.085 ppb	0.464 ppb	84.825 %	0.002 ppb	0.000 ppb	90.066 %	0.261 ppb
Concentration per Run 1	1.288 ppb	-0.082 ppb	344.582 ppb	0.395 ppb	83.031 %	0.001 ppb	0.000 ppb	87.844 %	0.212 ppb
Concentration per Run 2	1.152 ppb	-0.146 ppb	342.031 ppb	0.425 ppb	83.512 %	0.003 ppb	-0.002 ppb	86.922 %	0.278 ppb
Concentration per Run 3	1.114 ppb	0.076 ppb	354.643 ppb	0.573 ppb	87.932 %	0.002 ppb	0.002 ppb	95.434 %	0.292 ppb
Concentration RSD	7.7 %	227.1 %	1.9 %	20.6 %	3.2 %	60.2 %	972.2 %	5.2 %	16.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	95.216 ppb	89.543 %	92.524 %	0.062 ppb	0.014 ppb	82.376 %
Concentration per Run 1	94.046 ppb	88.582 %	90.941 %	0.037 ppb	0.013 ppb	83.323 %
Concentration per Run 2	93.982 ppb	87.793 %	93.508 %	0.076 ppb	0.015 ppb	81.243 %
Concentration per Run 3	97.619 ppb	92.256 %	93.124 %	0.073 ppb	0.015 ppb	82.561 %
Concentration RSD	2.2 %	2.7 %	1.5 %	35.4 %	9.1 %	1.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	117	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370562-02 6020TL	Rack	2		
Analysis started at:	12/5/2023 4:44:58 PM	Vial	21		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	78.062 %	88.340 %	0.013 ppb	423,669.777 ppb	49,542.876 ppb	62.769 ppb	4,289.839 ppb	97,629.746 ppb	98.967 %
Concentration per Run 1	80.560 %	88.593 %	0.015 ppb	418,968.954 ppb	48,244.756 ppb	51.945 ppb	4,419.645 ppb	97,933.898 ppb	99.220 %
Concentration per Run 2	77.166 %	82.319 %	0.016 ppb	430,277.474 ppb	50,556.910 ppb	59.403 ppb	4,303.966 ppb	100,626.334 ppb	98.071 %
Concentration per Run 3	76.460 %	94.106 %	0.009 ppb	421,762.905 ppb	49,826.960 ppb	76.960 ppb	4,145.905 ppb	94,329.005 ppb	99.612 %
Concentration RSD	2.8 %	6.7 %	28.5 %	1.4 %	2.4 %	20.5 %	3.2 %	3.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.632 ppb	1.128 ppb	574.253 ppb	63,246.254 ppb	1.412 ppb	2.561 ppb	1.631 ppb	3.982 ppb	93.956 %
Concentration per Run 1	0.684 ppb	1.054 ppb	567.539 ppb	64,506.204 ppb	1.520 ppb	2.595 ppb	1.691 ppb	4.016 ppb	88.273 %
Concentration per Run 2	0.644 ppb	1.247 ppb	571.835 ppb	62,831.386 ppb	1.402 ppb	2.569 ppb	1.600 ppb	3.964 ppb	92.675 %
Concentration per Run 3	0.566 ppb	1.082 ppb	583.384 ppb	62,401.172 ppb	1.315 ppb	2.519 ppb	1.601 ppb	3.965 ppb	100.920 %
Concentration RSD	9.5 %	9.3 %	1.4 %	1.8 %	7.3 %	1.5 %	3.2 %	0.7 %	6.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.238 ppb	0.502 ppb	544.038 ppb	0.756 ppb	81.932 %	0.010 ppb	0.016 ppb	88.423 %	0.323 ppb
Concentration per Run 1	2.324 ppb	0.513 ppb	539.320 ppb	0.693 ppb	78.692 %	0.012 ppb	0.016 ppb	85.205 %	0.317 ppb
Concentration per Run 2	2.339 ppb	0.560 ppb	541.620 ppb	0.750 ppb	83.146 %	0.007 ppb	0.013 ppb	91.023 %	0.313 ppb
Concentration per Run 3	2.052 ppb	0.435 ppb	551.176 ppb	0.825 ppb	83.956 %	0.011 ppb	0.018 ppb	89.039 %	0.340 ppb
Concentration RSD	7.2 %	12.6 %	1.2 %	8.8 %	3.5 %	28.2 %	14.8 %	3.3 %	4.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	179.750 ppb	88.075 %	92.534 %	0.049 ppb	0.199 ppb	80.073 %
Concentration per Run 1	176.102 ppb	82.798 %	89.325 %	0.024 ppb	0.194 ppb	81.143 %
Concentration per Run 2	175.817 ppb	89.085 %	91.579 %	0.062 ppb	0.201 ppb	78.504 %
Concentration per Run 3	187.331 ppb	92.342 %	96.699 %	0.062 ppb	0.201 ppb	80.572 %
Concentration RSD	3.7 %	5.5 %	4.1 %	45.0 %	1.9 %	1.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	118	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 4:49:38 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.257 %	98.099 %	62.651 ppb	6,181.944 ppb	6,285.409 ppb	64.712 ppb	6,257.484 ppb	5,873.240 ppb	95.908 %
Concentration per Run 1	85.126 %	87.642 %	61.671 ppb	6,939.598 ppb	6,677.840 ppb	68.891 ppb	6,391.171 ppb	5,873.378 ppb	96.393 %
Concentration per Run 2	84.141 %	101.711 %	62.736 ppb	5,458.173 ppb	6,302.228 ppb	66.485 ppb	6,121.345 ppb	5,782.838 ppb	98.123 %
Concentration per Run 3	80.503 %	104.943 %	63.546 ppb	6,148.060 ppb	5,876.158 ppb	58.760 ppb	6,259.938 ppb	5,963.506 ppb	93.206 %
Recovery Percentage 1			104.419 %	103.032 %	104.757 %	107.854 %	104.291 %	97.887 %	
Concentration RSD	2.9 %	9.4 %	1.5 %	12.0 %	6.4 %	8.2 %	2.2 %	1.5 %	2.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.206 ppb	59.245 ppb	62.446 ppb	6,128.642 ppb	62.311 ppb	60.029 ppb	60.209 ppb	60.853 ppb	98.451 %
Concentration per Run 1	60.510 ppb	60.007 ppb	63.706 ppb	6,212.824 ppb	64.177 ppb	62.302 ppb	62.009 ppb	62.606 ppb	93.735 %
Concentration per Run 2	57.367 ppb	59.712 ppb	61.143 ppb	6,042.260 ppb	62.332 ppb	57.838 ppb	58.159 ppb	59.552 ppb	102.208 %
Concentration per Run 3	59.741 ppb	58.018 ppb	62.489 ppb	6,130.842 ppb	60.422 ppb	59.948 ppb	60.458 ppb	60.400 ppb	99.409 %
Recovery Percentage 1	98.677 %	98.742 %	104.077 %	102.144 %	103.851 %	100.048 %	100.348 %	101.421 %	
Concentration RSD	2.8 %	1.8 %	2.1 %	1.4 %	3.0 %	3.7 %	3.2 %	2.6 %	4.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.075 ppb	61.124 ppb	59.717 ppb	59.546 ppb	90.698 %	59.751 ppb	59.607 ppb	94.801 %	61.060 ppb
Concentration per Run 1	60.583 ppb	58.832 ppb	58.766 ppb	59.446 ppb	88.635 %	60.898 ppb	61.540 ppb	91.043 %	60.628 ppb
Concentration per Run 2	59.020 ppb	61.877 ppb	60.131 ppb	59.004 ppb	92.254 %	58.532 ppb	58.618 ppb	97.819 %	61.040 ppb
Concentration per Run 3	60.621 ppb	62.664 ppb	60.254 ppb	60.188 ppb	91.205 %	59.825 ppb	58.662 ppb	95.541 %	61.511 ppb
Recovery Percentage 1	100.125 %	101.874 %	99.528 %	99.243 %		99.586 %	99.344 %		101.766 %
Concentration RSD	1.5 %	3.3 %	1.4 %	1.0 %	2.1 %	2.0 %	2.8 %	3.6 %	0.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.209 ppb	90.877 %	93.829 %	60.815 ppb	57.985 ppb	88.437 %
Concentration per Run 1	63.512 ppb	88.394 %	89.306 %	56.012 ppb	56.277 ppb	92.209 %
Concentration per Run 2	60.628 ppb	92.907 %	97.706 %	62.631 ppb	58.386 ppb	86.940 %
Concentration per Run 3	59.487 ppb	91.329 %	94.474 %	63.802 ppb	59.291 ppb	86.164 %
Recovery Percentage 1	102.015 %			101.358 %	96.641 %	
Concentration RSD	3.4 %	2.5 %	4.5 %	6.9 %	2.7 %	3.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	119	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 4:54:21 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.460 %	97.085 %	0.012 ppb	52.846 ppb	0.496 ppb	-0.081 ppb	10.691 ppb	-1.105 ppb	81.473 %
Concentration per Run 1	80.855 %	103.232 %	0.015 ppb	45.754 ppb	0.865 ppb	-0.284 ppb	7.865 ppb	-2.235 ppb	80.987 %
Concentration per Run 2	79.634 %	98.479 %	0.009 ppb	48.745 ppb	-0.199 ppb	0.094 ppb	10.615 ppb	-2.848 ppb	81.618 %
Concentration per Run 3	77.891 %	89.544 %	0.011 ppb	64.040 ppb	0.824 ppb	-0.054 ppb	13.594 ppb	1.767 ppb	81.814 %
Recovery Percentage 1			2.315 %	52.846 %	0.709 %	-0.812 %	10.691 %	-1.105 %	
Concentration RSD	1.9 %	7.2 %	26.7 %	18.6 %	121.5 %	234.5 %	26.8 %	226.8 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.053 ppb	0.009 ppb	0.059 ppb	18.361 ppb	-0.001 ppb	0.016 ppb	-0.017 ppb	0.196 ppb	93.257 %
Concentration per Run 1	-0.051 ppb	0.000 ppb	-0.010 ppb	21.177 ppb	-0.006 ppb	-0.002 ppb	-0.029 ppb	0.140 ppb	95.065 %
Concentration per Run 2	-0.058 ppb	0.005 ppb	0.090 ppb	16.625 ppb	-0.004 ppb	0.015 ppb	0.001 ppb	0.217 ppb	93.061 %
Concentration per Run 3	-0.048 ppb	0.023 ppb	0.098 ppb	17.280 ppb	0.006 ppb	0.034 ppb	-0.024 ppb	0.230 ppb	91.644 %
Recovery Percentage 1	-1.051 %	0.922 %	5.922 %	36.721 %	-0.244 %	0.794 %	-1.749 %	3.914 %	
Concentration RSD	9.3 %	133.5 %	101.9 %	13.4 %	497.9 %	114.9 %	91.9 %	24.9 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.320 ppb	0.169 ppb	-0.005 ppb	0.855 ppb	89.203 %	0.004 ppb	0.001 ppb	89.861 %	0.185 ppb
Concentration per Run 1	0.266 ppb	0.259 ppb	-0.006 ppb	0.778 ppb	90.437 %	0.004 ppb	0.004 ppb	90.635 %	0.156 ppb
Concentration per Run 2	0.435 ppb	0.048 ppb	-0.004 ppb	0.917 ppb	88.754 %	0.007 ppb	0.000 ppb	90.381 %	0.207 ppb
Concentration per Run 3	0.258 ppb	0.202 ppb	-0.004 ppb	0.872 ppb	88.419 %	0.002 ppb	-0.002 ppb	88.568 %	0.192 ppb
Recovery Percentage 1	63.927 %	3.389 %	-0.047 %	42.775 %		1.048 %	0.453 %		4.627 %
Concentration RSD	31.2 %	64.5 %	28.3 %	8.3 %	1.2 %	65.9 %	349.7 %	1.3 %	14.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.007 ppb	86.145 %	89.546 %	0.350 ppb	0.014 ppb	87.950 %
Concentration per Run 1	-0.013 ppb	87.837 %	92.446 %	0.268 ppb	0.018 ppb	92.876 %
Concentration per Run 2	0.045 ppb	85.751 %	90.773 %	0.399 ppb	0.013 ppb	87.405 %
Concentration per Run 3	-0.013 ppb	84.847 %	85.419 %	0.382 ppb	0.010 ppb	83.570 %
Recovery Percentage 1	1.318 %			34.963 %	1.357 %	
Concentration RSD	510.4 %	1.8 %	4.1 %	20.4 %	27.2 %	5.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	120	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370562-03 6020TL	Rack	2		
Analysis started at:	12/5/2023 5:10:29 PM	Vial	22		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	75.446 %	84.347 %	0.050 ppb	938,745.681 ppb	59,801.043 ppb	785.619 ppb	3,624.147 ppb	46,322.571 ppb	110.349 %
Concentration per Run 1	78.037 %	80.608 %	0.043 ppb	973,899.290 ppb	61,081.492 ppb	802.026 ppb	3,629.174 ppb	46,394.259 ppb	111.148 %
Concentration per Run 2	74.978 %	84.601 %	0.052 ppb	944,512.904 ppb	60,253.760 ppb	806.160 ppb	3,707.689 ppb	47,520.192 ppb	110.387 %
Concentration per Run 3	73.323 %	87.833 %	0.054 ppb	897,824.848 ppb	58,067.878 ppb	748.672 ppb	3,535.577 ppb	45,053.261 ppb	109.512 %
Concentration RSD	3.2 %	4.3 %	11.4 %	4.1 %	2.6 %	4.1 %	2.4 %	2.7 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.251 ppb	1.056 ppb	666.811 ppb	132,274.689 ppb	10.089 ppb	26.805 ppb	4.136 ppb	16.441 ppb	98.834 %
Concentration per Run 1	1.143 ppb	1.056 ppb	655.404 ppb	132,657.201 ppb	10.362 ppb	27.102 ppb	4.312 ppb	16.691 ppb	94.596 %
Concentration per Run 2	1.290 ppb	1.069 ppb	675.075 ppb	134,019.702 ppb	9.837 ppb	26.534 ppb	4.067 ppb	16.524 ppb	104.970 %
Concentration per Run 3	1.320 ppb	1.045 ppb	669.954 ppb	130,147.163 ppb	10.068 ppb	26.780 ppb	4.028 ppb	16.107 ppb	96.935 %
Concentration RSD	7.6 %	1.2 %	1.5 %	1.5 %	2.6 %	1.1 %	3.7 %	1.8 %	5.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.596 ppb	0.512 ppb	457.718 ppb	1.693 ppb	81.427 %	0.014 ppb	0.031 ppb	90.221 %	0.412 ppb
Concentration per Run 1	4.344 ppb	0.396 ppb	447.891 ppb	1.840 ppb	79.033 %	0.016 ppb	0.030 ppb	91.525 %	0.377 ppb
Concentration per Run 2	4.671 ppb	0.595 ppb	472.105 ppb	1.603 ppb	82.329 %	0.015 ppb	0.028 ppb	91.148 %	0.431 ppb
Concentration per Run 3	4.772 ppb	0.545 ppb	453.156 ppb	1.637 ppb	82.919 %	0.010 ppb	0.035 ppb	87.990 %	0.428 ppb
Concentration RSD	4.9 %	20.3 %	2.8 %	7.6 %	2.6 %	25.7 %	11.7 %	2.2 %	7.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	19.218 ppb	89.402 %	93.933 %	0.114 ppb	0.769 ppb	137.478 %
Concentration per Run 1	19.480 ppb	88.044 %	91.050 %	0.076 ppb	0.396 ppb	227.957 %
Concentration per Run 2	18.580 ppb	91.452 %	96.914 %	0.153 ppb	0.894 ppb	97.939 %
Concentration per Run 3	19.593 ppb	88.709 %	93.833 %	0.112 ppb	1.018 ppb	86.538 %
Concentration RSD	2.9 %	2.0 %	3.1 %	34.0 %	42.8 %	57.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	121	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370580-01 6020TL	Rack	2		
Analysis started at:	12/5/2023 5:15:10 PM	Vial	23		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.541 %	91.888 %	0.021 ppb	46,419.726 ppb	5,435.484 ppb	108.568 ppb	1,158.967 ppb	18,478.273 ppb	104.131 %
Concentration per Run 1	87.399 %	91.635 %	0.020 ppb	47,524.420 ppb	5,512.238 ppb	113.078 ppb	1,200.527 ppb	19,392.608 ppb	102.256 %
Concentration per Run 2	87.546 %	91.255 %	0.023 ppb	46,059.395 ppb	5,428.722 ppb	106.337 ppb	1,180.040 ppb	18,321.096 ppb	105.392 %
Concentration per Run 3	87.678 %	92.776 %	0.022 ppb	45,675.364 ppb	5,365.494 ppb	106.289 ppb	1,096.334 ppb	17,721.115 ppb	104.746 %
Concentration RSD	0.2 %	0.9 %	7.4 %	2.1 %	1.4 %	3.6 %	4.8 %	4.6 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.670 ppb	0.587 ppb	1,695.626 ppb	16,589.288 ppb	1.412 ppb	1.163 ppb	1.235 ppb	10.280 ppb	94.459 %
Concentration per Run 1	0.750 ppb	0.653 ppb	1,738.326 ppb	17,313.166 ppb	1.453 ppb	1.258 ppb	1.277 ppb	10.924 ppb	89.605 %
Concentration per Run 2	0.563 ppb	0.533 ppb	1,718.294 ppb	16,575.962 ppb	1.488 ppb	1.227 ppb	1.286 ppb	10.550 ppb	92.823 %
Concentration per Run 3	0.698 ppb	0.573 ppb	1,630.256 ppb	15,878.737 ppb	1.296 ppb	1.005 ppb	1.141 ppb	9.365 ppb	100.949 %
Concentration RSD	14.4 %	10.5 %	3.4 %	4.3 %	7.3 %	11.9 %	6.6 %	7.9 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.460 ppb	0.124 ppb	89.338 ppb	2.993 ppb	88.378 %	0.001 ppb	0.486 ppb	94.052 %	0.133 ppb
Concentration per Run 1	0.630 ppb	0.204 ppb	94.662 ppb	3.163 ppb	82.837 %	0.001 ppb	0.533 ppb	89.302 %	0.112 ppb
Concentration per Run 2	0.380 ppb	0.095 ppb	88.678 ppb	2.842 ppb	91.522 %	0.000 ppb	0.494 ppb	95.728 %	0.149 ppb
Concentration per Run 3	0.371 ppb	0.073 ppb	84.674 ppb	2.973 ppb	90.775 %	0.002 ppb	0.431 ppb	97.127 %	0.138 ppb
Concentration RSD	31.9 %	56.6 %	5.6 %	5.4 %	5.4 %	74.2 %	10.6 %	4.4 %	14.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	50.660 ppb	91.977 %	94.147 %	0.040 ppb	0.162 ppb	84.401 %
Concentration per Run 1	54.518 ppb	87.936 %	90.832 %	0.027 ppb	0.159 ppb	82.151 %
Concentration per Run 2	50.282 ppb	94.805 %	96.631 %	0.044 ppb	0.163 ppb	84.517 %
Concentration per Run 3	47.180 ppb	93.191 %	94.977 %	0.049 ppb	0.164 ppb	86.536 %
Concentration RSD	7.3 %	3.9 %	3.2 %	28.6 %	1.8 %	2.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	122	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370580-02 6020TL	Rack	2		
Analysis started at:	12/5/2023 5:19:50 PM	Vial	24		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.292 %	98.542 %	0.020 ppb	15,698.663 ppb	10,579.034 ppb	102.454 ppb	1,624.769 ppb	23,710.068 ppb	98.881 %
Concentration per Run 1	87.924 %	100.380 %	0.018 ppb	15,257.966 ppb	10,375.571 ppb	95.510 ppb	1,531.102 ppb	22,599.383 ppb	99.508 %
Concentration per Run 2	86.374 %	94.867 %	0.019 ppb	16,338.475 ppb	10,706.938 ppb	103.467 ppb	1,611.901 ppb	23,614.142 ppb	99.470 %
Concentration per Run 3	84.576 %	100.380 %	0.023 ppb	15,499.549 ppb	10,654.593 ppb	108.384 ppb	1,731.304 ppb	24,916.680 ppb	97.665 %
Concentration RSD	1.9 %	3.2 %	13.0 %	3.6 %	1.7 %	6.3 %	6.2 %	4.9 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.681 ppb	0.868 ppb	246.130 ppb	6,851.455 ppb	16.168 ppb	2.372 ppb	1.242 ppb	5.575 ppb	99.640 %
Concentration per Run 1	0.765 ppb	0.878 ppb	235.428 ppb	6,633.419 ppb	15.882 ppb	2.429 ppb	1.268 ppb	5.695 ppb	98.623 %
Concentration per Run 2	0.561 ppb	0.813 ppb	246.640 ppb	7,028.948 ppb	16.589 ppb	2.355 ppb	1.268 ppb	5.490 ppb	98.217 %
Concentration per Run 3	0.716 ppb	0.913 ppb	256.322 ppb	6,891.998 ppb	16.033 ppb	2.332 ppb	1.188 ppb	5.539 ppb	102.080 %
Concentration RSD	15.6 %	5.8 %	4.2 %	2.9 %	2.3 %	2.1 %	3.7 %	1.9 %	2.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.358 ppb	0.128 ppb	160.337 ppb	0.880 ppb	89.964 %	0.009 ppb	0.022 ppb	95.481 %	0.104 ppb
Concentration per Run 1	0.344 ppb	0.133 ppb	156.062 ppb	0.897 ppb	88.119 %	0.009 ppb	0.023 ppb	92.989 %	0.090 ppb
Concentration per Run 2	0.307 ppb	0.235 ppb	157.772 ppb	0.869 ppb	90.162 %	0.006 ppb	0.025 ppb	92.385 %	0.109 ppb
Concentration per Run 3	0.422 ppb	0.017 ppb	167.178 ppb	0.876 ppb	91.609 %	0.014 ppb	0.019 ppb	101.070 %	0.113 ppb
Concentration RSD	16.5 %	84.7 %	3.7 %	1.6 %	1.9 %	42.1 %	12.6 %	5.1 %	12.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	28.284 ppb	93.174 %	97.803 %	0.027 ppb	0.176 ppb	91.360 %
Concentration per Run 1	27.651 ppb	92.374 %	95.387 %	0.016 ppb	0.173 ppb	90.146 %
Concentration per Run 2	28.172 ppb	92.825 %	96.088 %	0.031 ppb	0.174 ppb	90.531 %
Concentration per Run 3	29.029 ppb	94.321 %	101.935 %	0.034 ppb	0.180 ppb	93.402 %
Concentration RSD	2.5 %	1.1 %	3.7 %	36.6 %	2.3 %	1.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	123	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370592-01 6020TL	Rack	2		
Analysis started at:	12/5/2023 5:24:31 PM	Vial	25		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.055 %	100.253 %	0.013 ppb	65,113.510 ppb	30,571.350 ppb	4.950 ppb	4,254.700 ppb	158,664.412 ppb	95.227 %
Concentration per Run 1	86.531 %	100.951 %	0.014 ppb	63,294.440 ppb	28,945.025 ppb	4.629 ppb	3,950.378 ppb	151,048.837 ppb	98.176 %
Concentration per Run 2	81.686 %	96.388 %	0.014 ppb	66,804.549 ppb	31,435.125 ppb	5.092 ppb	4,212.315 ppb	155,843.316 ppb	93.369 %
Concentration per Run 3	80.949 %	103.422 %	0.013 ppb	65,241.543 ppb	31,333.901 ppb	5.130 ppb	4,601.406 ppb	169,101.082 ppb	94.135 %
Concentration RSD	3.7 %	3.6 %	1.8 %	2.7 %	4.6 %	5.6 %	7.7 %	5.9 %	2.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.272 ppb	4.373 ppb	2,072.057 ppb	16,297.938 ppb	0.429 ppb	1.489 ppb	0.242 ppb	0.766 ppb	97.789 %
Concentration per Run 1	0.198 ppb	4.354 ppb	1,913.231 ppb	15,804.003 ppb	0.399 ppb	1.492 ppb	0.272 ppb	0.803 ppb	96.815 %
Concentration per Run 2	0.317 ppb	4.391 ppb	2,004.045 ppb	16,397.024 ppb	0.461 ppb	1.445 ppb	0.187 ppb	0.723 ppb	97.341 %
Concentration per Run 3	0.302 ppb	4.374 ppb	2,298.894 ppb	16,692.786 ppb	0.428 ppb	1.529 ppb	0.267 ppb	0.771 ppb	99.213 %
Concentration RSD	23.7 %	0.4 %	9.7 %	2.8 %	7.3 %	2.8 %	19.7 %	5.2 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.427 ppb	0.110 ppb	415.902 ppb	0.480 ppb	88.392 %	0.001 ppb	0.000 ppb	97.542 %	0.096 ppb
Concentration per Run 1	7.525 ppb	0.194 ppb	390.023 ppb	0.365 ppb	88.967 %	0.001 ppb	-0.002 ppb	96.534 %	0.086 ppb
Concentration per Run 2	7.278 ppb	0.126 ppb	406.304 ppb	0.502 ppb	88.526 %	0.000 ppb	0.002 ppb	92.732 %	0.109 ppb
Concentration per Run 3	7.478 ppb	0.012 ppb	451.379 ppb	0.574 ppb	87.682 %	0.000 ppb	0.000 ppb	103.359 %	0.093 ppb
Concentration RSD	1.8 %	83.4 %	7.6 %	22.0 %	0.7 %	117.9 %	1,431.6 %	5.5 %	12.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	982.869 ppb	95.699 %	97.642 %	0.016 ppb	0.035 ppb	88.274 %
Concentration per Run 1	950.088 ppb	94.072 %	96.876 %	0.003 ppb	0.033 ppb	89.615 %
Concentration per Run 2	979.629 ppb	95.951 %	95.269 %	0.022 ppb	0.037 ppb	88.703 %
Concentration per Run 3	1,018.890 ppb	97.074 %	100.781 %	0.023 ppb	0.035 ppb	86.503 %
Concentration RSD	3.5 %	1.6 %	2.9 %	69.3 %	6.9 %	1.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	124	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370592-02 6020TL	Rack	2		
Analysis started at:	12/5/2023 5:29:11 PM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.499 %	101.965 %	0.011 ppb	42,156.516 ppb	15,271.675 ppb	78.785 ppb	5,702.369 ppb	122,093.070 ppb	98.639 %
Concentration per Run 1	93.778 %	95.247 %	0.015 ppb	42,855.597 ppb	15,582.829 ppb	83.419 ppb	5,744.110 ppb	122,920.025 ppb	99.790 %
Concentration per Run 2	91.521 %	98.859 %	0.012 ppb	43,229.313 ppb	15,665.117 ppb	79.651 ppb	5,579.413 ppb	121,613.310 ppb	97.888 %
Concentration per Run 3	89.197 %	111.787 %	0.007 ppb	40,384.639 ppb	14,567.079 ppb	73.284 ppb	5,783.585 ppb	121,745.877 ppb	98.241 %
Concentration RSD	2.5 %	8.5 %	34.8 %	3.7 %	4.0 %	6.5 %	1.9 %	0.6 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.386 ppb	0.198 ppb	3,129.307 ppb	2,126.719 ppb	0.178 ppb	3.547 ppb	1.608 ppb	2.641 ppb	98.707 %
Concentration per Run 1	0.373 ppb	0.200 ppb	3,132.584 ppb	2,139.207 ppb	0.171 ppb	3.560 ppb	1.614 ppb	2.656 ppb	97.203 %
Concentration per Run 2	0.456 ppb	0.205 ppb	3,122.578 ppb	2,125.358 ppb	0.190 ppb	3.515 ppb	1.585 ppb	2.712 ppb	95.715 %
Concentration per Run 3	0.331 ppb	0.189 ppb	3,132.758 ppb	2,115.593 ppb	0.172 ppb	3.565 ppb	1.625 ppb	2.554 ppb	103.204 %
Concentration RSD	16.5 %	4.2 %	0.2 %	0.6 %	6.2 %	0.8 %	1.3 %	3.0 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.939 ppb	0.070 ppb	485.982 ppb	0.983 ppb	89.834 %	0.000 ppb	0.003 ppb	99.921 %	0.085 ppb
Concentration per Run 1	0.990 ppb	-0.148 ppb	473.682 ppb	1.052 ppb	88.658 %	0.000 ppb	0.004 ppb	96.477 %	0.083 ppb
Concentration per Run 2	0.951 ppb	0.197 ppb	488.036 ppb	0.872 ppb	87.416 %	0.000 ppb	0.002 ppb	101.337 %	0.077 ppb
Concentration per Run 3	0.875 ppb	0.162 ppb	496.227 ppb	1.025 ppb	93.428 %	0.001 ppb	0.002 ppb	101.950 %	0.095 ppb
Concentration RSD	6.3 %	269.8 %	2.3 %	9.8 %	3.5 %	190.3 %	46.4 %	3.0 %	10.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	415.414 ppb	94.392 %	99.313 %	0.014 ppb	0.554 ppb	85.165 %
Concentration per Run 1	422.336 ppb	92.621 %	96.507 %	0.004 ppb	0.552 ppb	85.470 %
Concentration per Run 2	390.705 ppb	93.555 %	99.860 %	0.019 ppb	0.555 ppb	84.171 %
Concentration per Run 3	433.200 ppb	97.000 %	101.571 %	0.018 ppb	0.554 ppb	85.853 %
Concentration RSD	5.3 %	2.4 %	2.6 %	63.1 %	0.3 %	1.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 125
Analysis label: I2370592-03 6020TL
Analysis started at: 12/5/2023 5:33:50 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 27
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.193 %	97.338 %	0.017 ppb	72,402.341 ppb	13,698.686 ppb	59.236 ppb	1,286.136 ppb	132,265.073 ppb	99.725 %
Concentration per Run 1	88.365 %	97.719 %	0.006 ppb	71,964.314 ppb	13,584.257 ppb	58.137 ppb	1,238.190 ppb	133,431.295 ppb	98.457 %
Concentration per Run 2	86.984 %	93.536 %	0.021 ppb	72,430.744 ppb	13,745.856 ppb	59.746 ppb	1,290.400 ppb	128,163.693 ppb	99.307 %
Concentration per Run 3	86.229 %	100.760 %	0.023 ppb	72,811.964 ppb	13,765.945 ppb	59.825 ppb	1,329.817 ppb	135,200.230 ppb	101.412 %
Concentration RSD	1.2 %	3.7 %	56.3 %	0.6 %	0.7 %	1.6 %	3.6 %	2.8 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.450 ppb	159.900 ppb	765.274 ppb	6,403.867 ppb	1.231 ppb	1.634 ppb	0.837 ppb	2.195 ppb	103.389 %
Concentration per Run 1	1.497 ppb	162.239 ppb	743.785 ppb	6,528.104 ppb	1.333 ppb	1.762 ppb	0.946 ppb	2.348 ppb	95.170 %
Concentration per Run 2	1.543 ppb	160.035 ppb	777.554 ppb	6,402.321 ppb	1.220 ppb	1.511 ppb	0.815 ppb	2.185 ppb	102.817 %
Concentration per Run 3	1.310 ppb	157.427 ppb	774.484 ppb	6,281.177 ppb	1.139 ppb	1.629 ppb	0.750 ppb	2.053 ppb	112.182 %
Concentration RSD	8.5 %	1.5 %	2.4 %	1.9 %	7.9 %	7.7 %	11.9 %	6.7 %	8.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.480 ppb	0.241 ppb	202.751 ppb	0.228 ppb	88.486 %	0.001 ppb	0.001 ppb	98.062 %	0.067 ppb
Concentration per Run 1	2.783 ppb	0.293 ppb	202.227 ppb	0.240 ppb	86.707 %	0.001 ppb	0.002 ppb	95.954 %	0.066 ppb
Concentration per Run 2	2.392 ppb	0.177 ppb	198.940 ppb	0.215 ppb	89.277 %	0.001 ppb	0.002 ppb	95.721 %	0.063 ppb
Concentration per Run 3	2.265 ppb	0.254 ppb	207.088 ppb	0.230 ppb	89.475 %	0.000 ppb	-0.002 ppb	102.511 %	0.071 ppb
Concentration RSD	10.9 %	24.4 %	2.0 %	5.7 %	1.7 %	94.8 %	283.3 %	3.9 %	5.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	351.610 ppb	92.496 %	96.321 %	0.010 ppb	0.321 ppb	87.907 %
Concentration per Run 1	352.588 ppb	89.456 %	95.039 %	0.002 ppb	0.309 ppb	88.540 %
Concentration per Run 2	340.553 ppb	94.023 %	94.724 %	0.015 ppb	0.322 ppb	87.529 %
Concentration per Run 3	361.688 ppb	94.008 %	99.199 %	0.013 ppb	0.333 ppb	87.651 %
Concentration RSD	3.0 %	2.8 %	2.6 %	68.4 %	3.7 %	0.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 126
Analysis label: I2370592-04 6020TL
Analysis started at: 12/5/2023 5:38:30 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 28
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.383 %	94.297 %	0.038 ppb	46,733.286 ppb	6,596.410 ppb	21.885 ppb	4,294.344 ppb	54,533.149 ppb	98.478 %
Concentration per Run 1	87.686 %	86.692 %	0.037 ppb	48,279.191 ppb	6,951.021 ppb	23.414 ppb	4,638.066 ppb	56,633.899 ppb	97.608 %
Concentration per Run 2	85.904 %	94.487 %	0.043 ppb	45,906.701 ppb	6,434.083 ppb	20.902 ppb	4,210.422 ppb	53,600.936 ppb	98.628 %
Concentration per Run 3	85.558 %	101.711 %	0.034 ppb	46,013.964 ppb	6,404.126 ppb	21.339 ppb	4,034.544 ppb	53,364.613 ppb	99.197 %
Concentration RSD	1.3 %	8.0 %	12.9 %	2.9 %	4.7 %	6.1 %	7.2 %	3.3 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.255 ppb	47.077 ppb	9,564.793 ppb	14,812.253 ppb	3.500 ppb	1.773 ppb	3.167 ppb	4.964 ppb	100.257 %
Concentration per Run 1	0.237 ppb	48.500 ppb	9,668.920 ppb	15,164.290 ppb	3.693 ppb	1.766 ppb	3.272 ppb	5.169 ppb	96.736 %
Concentration per Run 2	0.258 ppb	47.897 ppb	9,986.149 ppb	15,231.026 ppb	3.572 ppb	1.768 ppb	3.267 ppb	5.124 ppb	93.901 %
Concentration per Run 3	0.271 ppb	44.834 ppb	9,039.311 ppb	14,041.442 ppb	3.235 ppb	1.784 ppb	2.961 ppb	4.600 ppb	110.133 %
Concentration RSD	6.7 %	4.2 %	5.0 %	4.5 %	6.8 %	0.6 %	5.6 %	6.4 %	8.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.531 ppb	0.356 ppb	298.268 ppb	2.226 ppb	89.119 %	0.005 ppb	1.221 ppb	100.002 %	0.108 ppb
Concentration per Run 1	4.719 ppb	0.121 ppb	296.818 ppb	2.360 ppb	85.532 %	0.006 ppb	1.321 ppb	93.702 %	0.103 ppb
Concentration per Run 2	4.616 ppb	0.656 ppb	298.818 ppb	2.309 ppb	88.000 %	0.005 ppb	1.144 ppb	97.275 %	0.112 ppb
Concentration per Run 3	4.258 ppb	0.290 ppb	299.169 ppb	2.010 ppb	93.824 %	0.004 ppb	1.197 ppb	109.030 %	0.109 ppb
Concentration RSD	5.3 %	76.8 %	0.4 %	8.5 %	4.8 %	17.4 %	7.4 %	8.0 %	4.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	146.442 ppb	94.377 %	99.220 %	0.011 ppb	0.711 ppb	88.411 %
Concentration per Run 1	145.739 ppb	91.468 %	94.759 %	0.002 ppb	0.698 ppb	91.410 %
Concentration per Run 2	148.109 ppb	92.870 %	94.995 %	0.014 ppb	0.718 ppb	84.812 %
Concentration per Run 3	145.478 ppb	98.794 %	107.908 %	0.017 ppb	0.718 ppb	89.009 %
Concentration RSD	1.0 %	4.1 %	7.6 %	75.4 %	1.7 %	3.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	127	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370592-05 6020TL	Rack	2		
Analysis started at:	12/5/2023 5:43:09 PM	Vial	29		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.355 %	99.049 %	0.012 ppb	212,166.344 ppb	44,141.459 ppb	68.101 ppb	7,574.597 ppb	92,257.813 ppb	96.896 %
Concentration per Run 1	93.974 %	94.297 %	0.018 ppb	213,738.088 ppb	43,882.826 ppb	65.322 ppb	7,443.051 ppb	90,472.985 ppb	95.823 %
Concentration per Run 2	93.051 %	99.430 %	0.010 ppb	206,349.593 ppb	43,450.402 ppb	65.324 ppb	7,395.250 ppb	91,681.753 ppb	97.444 %
Concentration per Run 3	90.040 %	103.422 %	0.007 ppb	216,411.350 ppb	45,091.151 ppb	73.657 ppb	7,885.488 ppb	94,618.703 ppb	97.421 %
Concentration RSD	2.2 %	4.6 %	45.5 %	2.5 %	1.9 %	7.1 %	3.6 %	2.3 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.117 ppb	2.313 ppb	1,272.873 ppb	1,163.149 ppb	1.838 ppb	2.548 ppb	1.539 ppb	3.506 ppb	97.182 %
Concentration per Run 1	1.108 ppb	2.367 ppb	1,257.642 ppb	1,171.479 ppb	1.893 ppb	2.506 ppb	1.639 ppb	3.522 ppb	95.256 %
Concentration per Run 2	1.163 ppb	2.286 ppb	1,264.778 ppb	1,161.935 ppb	1.818 ppb	2.598 ppb	1.527 ppb	3.417 ppb	94.421 %
Concentration per Run 3	1.079 ppb	2.285 ppb	1,296.199 ppb	1,156.033 ppb	1.803 ppb	2.539 ppb	1.453 ppb	3.579 ppb	101.870 %
Concentration RSD	3.8 %	2.0 %	1.6 %	0.7 %	2.6 %	1.8 %	6.1 %	2.3 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.704 ppb	0.025 ppb	2,207.920 ppb	1.973 ppb	84.491 %	0.000 ppb	0.002 ppb	95.699 %	0.069 ppb
Concentration per Run 1	0.728 ppb	0.021 ppb	2,112.604 ppb	2.018 ppb	83.485 %	0.000 ppb	0.002 ppb	90.373 %	0.058 ppb
Concentration per Run 2	0.845 ppb	-0.029 ppb	2,205.080 ppb	2.059 ppb	82.271 %	0.001 ppb	0.002 ppb	92.562 %	0.072 ppb
Concentration per Run 3	0.538 ppb	0.082 ppb	2,306.075 ppb	1.842 ppb	87.716 %	-0.001 ppb	0.000 ppb	104.162 %	0.078 ppb
Concentration RSD	22.0 %	225.1 %	4.4 %	5.8 %	3.4 %	1,334.1 %	84.5 %	7.7 %	14.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	669.815 ppb	92.016 %	96.883 %	0.011 ppb	0.426 ppb	83.425 %
Concentration per Run 1	670.532 ppb	91.787 %	94.619 %	0.002 ppb	0.401 ppb	85.354 %
Concentration per Run 2	660.332 ppb	90.696 %	94.467 %	0.015 ppb	0.446 ppb	80.609 %
Concentration per Run 3	678.581 ppb	93.564 %	101.561 %	0.016 ppb	0.431 ppb	84.311 %
Concentration RSD	1.4 %	1.6 %	4.2 %	71.8 %	5.4 %	3.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	128	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370592-06 6020TL	Rack	2		
Analysis started at:	12/5/2023 5:47:49 PM	Vial	30		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.766 %	101.838 %	0.025 ppb	26,754.963 ppb	2,726.500 ppb	530.571 ppb	2,664.665 ppb	18,223.005 ppb	101.241 %
Concentration per Run 1	95.644 %	97.528 %	0.022 ppb	27,761.556 ppb	2,883.585 ppb	538.758 ppb	2,666.317 ppb	17,795.897 ppb	103.039 %
Concentration per Run 2	91.149 %	104.373 %	0.027 ppb	26,201.896 ppb	2,587.096 ppb	515.069 ppb	2,606.584 ppb	18,311.490 ppb	101.023 %
Concentration per Run 3	88.506 %	103.612 %	0.025 ppb	26,301.437 ppb	2,708.819 ppb	537.885 ppb	2,721.094 ppb	18,561.629 ppb	99.660 %
Concentration RSD	3.9 %	3.7 %	10.3 %	3.3 %	5.5 %	2.5 %	2.1 %	2.1 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.267 ppb	6.042 ppb	105.864 ppb	1,622.488 ppb	3.371 ppb	34.901 ppb	175.991 ppb	1,164.850 ppb	105.123 %
Concentration per Run 1	3.429 ppb	6.235 ppb	102.965 ppb	1,622.884 ppb	3.450 ppb	35.301 ppb	179.512 ppb	1,184.828 ppb	99.868 %
Concentration per Run 2	3.323 ppb	6.090 ppb	108.116 ppb	1,601.397 ppb	3.262 ppb	35.585 ppb	173.923 ppb	1,166.979 ppb	105.286 %
Concentration per Run 3	3.049 ppb	5.801 ppb	106.512 ppb	1,643.182 ppb	3.400 ppb	33.817 ppb	174.539 ppb	1,142.742 ppb	110.214 %
Concentration RSD	6.0 %	3.7 %	2.5 %	1.3 %	2.9 %	2.7 %	1.7 %	1.8 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.012 ppb	0.230 ppb	124.949 ppb	5.796 ppb	94.100 %	0.067 ppb	0.115 ppb	99.663 %	1.715 ppb
Concentration per Run 1	1.097 ppb	0.078 ppb	123.308 ppb	5.738 ppb	91.792 %	0.072 ppb	0.138 ppb	95.377 %	1.663 ppb
Concentration per Run 2	0.921 ppb	0.459 ppb	126.756 ppb	5.741 ppb	94.268 %	0.068 ppb	0.087 ppb	99.627 %	1.769 ppb
Concentration per Run 3	1.019 ppb	0.154 ppb	124.782 ppb	5.909 ppb	96.239 %	0.062 ppb	0.120 ppb	103.984 %	1.714 ppb
Concentration RSD	8.7 %	87.6 %	1.4 %	1.7 %	2.4 %	7.4 %	22.7 %	4.3 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	107.166 ppb	96.374 %	99.787 %	0.017 ppb	14.375 ppb	93.382 %
Concentration per Run 1	108.667 ppb	92.581 %	94.849 %	0.006 ppb	14.367 ppb	93.492 %
Concentration per Run 2	107.135 ppb	98.626 %	101.572 %	0.021 ppb	14.454 ppb	93.156 %
Concentration per Run 3	105.696 ppb	97.916 %	102.941 %	0.024 ppb	14.304 ppb	93.500 %
Concentration RSD	1.4 %	3.4 %	4.3 %	57.0 %	0.5 %	0.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	129	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370592-07 6020TL	Rack	2		
Analysis started at:	12/5/2023 5:52:29 PM	Vial	31		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.710 %	97.338 %	0.099 ppb	570,696.608 ppb	174,163.003 ppb	1,747.158 ppb	14,133.630 ppb	358,635.356 ppb	99.185 %
Concentration per Run 1	99.232 %	91.065 %	0.099 ppb	573,528.247 ppb	176,757.236 ppb	1,793.711 ppb	14,600.392 ppb	351,464.840 ppb	101.675 %
Concentration per Run 2	92.707 %	96.768 %	0.102 ppb	584,403.442 ppb	177,353.838 ppb	1,787.204 ppb	14,428.599 ppb	332,076.931 ppb	96.516 %
Concentration per Run 3	92.190 %	104.183 %	0.096 ppb	554,158.136 ppb	168,377.935 ppb	1,660.557 ppb	13,371.899 ppb	392,364.296 ppb	99.365 %
Concentration RSD	4.1 %	6.8 %	3.2 %	2.7 %	2.9 %	4.3 %	4.7 %	8.6 %	2.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	6.749 ppb	22.966 ppb	3,740.106 ppb	7,855.323 ppb	9.185 ppb	19.341 ppb	44.686 ppb	367.195 ppb	95.031 %
Concentration per Run 1	7.128 ppb	23.574 ppb	3,759.171 ppb	8,050.286 ppb	9.611 ppb	20.602 ppb	46.433 ppb	375.887 ppb	89.943 %
Concentration per Run 2	6.335 ppb	21.763 ppb	3,620.182 ppb	7,632.708 ppb	8.850 ppb	18.536 ppb	42.402 ppb	358.346 ppb	99.839 %
Concentration per Run 3	6.783 ppb	23.560 ppb	3,840.964 ppb	7,882.976 ppb	9.094 ppb	18.886 ppb	45.223 ppb	367.352 ppb	95.312 %
Concentration RSD	5.9 %	4.5 %	3.0 %	2.7 %	4.2 %	5.7 %	4.6 %	2.4 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.798 ppb	2.356 ppb	10,458.354 ppb	9.652 ppb	81.282 %	0.003 ppb	0.200 ppb	91.779 %	0.527 ppb
Concentration per Run 1	1.686 ppb	2.219 ppb	10,316.915 ppb	9.203 ppb	79.193 %	0.004 ppb	0.182 ppb	85.895 %	0.528 ppb
Concentration per Run 2	1.723 ppb	2.364 ppb	10,616.817 ppb	9.592 ppb	83.287 %	0.003 ppb	0.216 ppb	95.538 %	0.513 ppb
Concentration per Run 3	1.985 ppb	2.486 ppb	10,441.329 ppb	10.162 ppb	81.366 %	0.004 ppb	0.201 ppb	93.905 %	0.541 ppb
Concentration RSD	9.1 %	5.7 %	1.4 %	5.0 %	2.5 %	21.5 %	8.4 %	5.6 %	2.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3,057.034 ppb	91.524 %	96.019 %	0.020 ppb	41.459 ppb	81.308 %
Concentration per Run 1	3,100.683 ppb	88.343 %	92.251 %	0.013 ppb	39.960 ppb	82.614 %
Concentration per Run 2	3,117.896 ppb	94.302 %	99.442 %	0.022 ppb	40.977 ppb	82.933 %
Concentration per Run 3	2,952.524 ppb	91.928 %	96.363 %	0.025 ppb	43.440 ppb	78.376 %
Concentration RSD	3.0 %	3.3 %	3.8 %	31.1 %	4.3 %	3.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	130	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 5:57:09 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.610 %	98.923 %	61.038 ppb	6,233.996 ppb	6,354.000 ppb	66.481 ppb	6,322.348 ppb	6,168.145 ppb	108.819 %
Concentration per Run 1	103.059 %	93.346 %	60.112 ppb	5,648.792 ppb	6,403.921 ppb	64.594 ppb	6,422.205 ppb	6,360.708 ppb	109.492 %
Concentration per Run 2	101.532 %	107.795 %	61.301 ppb	6,254.426 ppb	6,113.039 ppb	68.637 ppb	6,207.520 ppb	6,123.366 ppb	109.325 %
Concentration per Run 3	97.240 %	95.627 %	61.701 ppb	6,798.770 ppb	6,545.040 ppb	66.211 ppb	6,337.319 ppb	6,020.361 ppb	107.638 %
Recovery Percentage 1			101.730 %	103.900 %	105.900 %	110.801 %	105.372 %	102.802 %	
Concentration RSD	3.0 %	7.9 %	1.4 %	9.2 %	3.5 %	3.1 %	1.7 %	2.8 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.531 ppb	58.317 ppb	61.163 ppb	6,088.200 ppb	61.168 ppb	60.176 ppb	60.381 ppb	60.314 ppb	101.048 %
Concentration per Run 1	59.264 ppb	58.834 ppb	60.816 ppb	6,207.595 ppb	62.776 ppb	63.123 ppb	61.983 ppb	61.047 ppb	97.221 %
Concentration per Run 2	57.378 ppb	55.583 ppb	60.216 ppb	5,864.937 ppb	58.438 ppb	56.975 ppb	57.466 ppb	59.342 ppb	105.837 %
Concentration per Run 3	61.951 ppb	60.533 ppb	62.456 ppb	6,192.067 ppb	62.289 ppb	60.429 ppb	61.694 ppb	60.553 ppb	100.085 %
Recovery Percentage 1	99.218 %	97.194 %	101.938 %	101.470 %	101.946 %	100.293 %	100.635 %	100.523 %	
Concentration RSD	3.9 %	4.3 %	1.9 %	3.2 %	3.9 %	5.1 %	4.2 %	1.5 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.433 ppb	61.968 ppb	60.868 ppb	59.114 ppb	94.943 %	59.521 ppb	60.326 ppb	100.508 %	61.280 ppb
Concentration per Run 1	61.351 ppb	61.810 ppb	59.703 ppb	56.521 ppb	93.512 %	60.864 ppb	61.983 ppb	93.858 %	63.849 ppb
Concentration per Run 2	59.621 ppb	64.359 ppb	61.867 ppb	60.174 ppb	98.428 %	58.335 ppb	59.610 ppb	106.674 %	60.081 ppb
Concentration per Run 3	60.325 ppb	59.735 ppb	61.033 ppb	60.647 ppb	92.889 %	59.364 ppb	59.385 ppb	100.993 %	59.909 ppb
Recovery Percentage 1	100.721 %	103.280 %	101.446 %	98.523 %		99.202 %	100.543 %		102.133 %
Concentration RSD	1.4 %	3.7 %	1.8 %	3.8 %	3.2 %	2.1 %	2.4 %	6.4 %	3.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.833 ppb	97.921 %	99.673 %	58.546 ppb	56.412 ppb	94.323 %
Concentration per Run 1	57.891 ppb	97.323 %	96.680 %	56.131 ppb	55.065 ppb	95.514 %
Concentration per Run 2	60.687 ppb	100.454 %	103.925 %	57.325 ppb	55.926 ppb	97.243 %
Concentration per Run 3	60.920 ppb	95.986 %	98.416 %	62.182 ppb	58.244 ppb	90.212 %
Recovery Percentage 1	99.721 %			97.577 %	94.020 %	
Concentration RSD	2.8 %	2.3 %	3.8 %	5.5 %	2.9 %	3.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	131	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 6:01:53 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.496 %	101.014 %	0.012 ppb	69.692 ppb	1.295 ppb	-0.019 ppb	-1.295 ppb	-1.731 ppb	97.781 %
Concentration per Run 1	100.743 %	103.802 %	0.006 ppb	67.440 ppb	1.676 ppb	-0.244 ppb	-2.318 ppb	1.479 ppb	100.533 %
Concentration per Run 2	96.812 %	100.570 %	0.017 ppb	69.523 ppb	1.584 ppb	-0.070 ppb	-1.339 ppb	-6.187 ppb	97.308 %
Concentration per Run 3	94.933 %	98.669 %	0.014 ppb	72.113 ppb	0.625 ppb	0.256 ppb	-0.227 ppb	-0.484 ppb	95.501 %
Recovery Percentage 1			2.407 %	69.692 %	1.850 %	-0.192 %	-1.295 %	-1.731 %	
Concentration RSD	3.0 %	2.6 %	47.5 %	3.4 %	45.0 %	1,319.6 %	80.8 %	230.1 %	2.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.050 ppb	0.000 ppb	0.075 ppb	14.382 ppb	0.002 ppb	0.010 ppb	-0.011 ppb	0.166 ppb	98.598 %
Concentration per Run 1	-0.082 ppb	-0.009 ppb	0.174 ppb	16.276 ppb	-0.001 ppb	0.028 ppb	-0.015 ppb	0.199 ppb	96.139 %
Concentration per Run 2	-0.022 ppb	0.011 ppb	0.000 ppb	14.900 ppb	0.001 ppb	-0.009 ppb	-0.009 ppb	0.155 ppb	99.183 %
Concentration per Run 3	-0.045 ppb	-0.001 ppb	0.052 ppb	11.971 ppb	0.007 ppb	0.010 ppb	-0.009 ppb	0.145 ppb	100.472 %
Recovery Percentage 1	-0.990 %	0.018 %	7.536 %	28.764 %	0.484 %	0.484 %	-1.115 %	3.324 %	
Concentration RSD	60.8 %	5,723.7 %	118.7 %	15.3 %	174.7 %	188.1 %	30.9 %	17.3 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.176 ppb	0.264 ppb	0.029 ppb	0.809 ppb	92.210 %	0.007 ppb	0.001 ppb	95.406 %	0.065 ppb
Concentration per Run 1	0.179 ppb	0.308 ppb	0.049 ppb	0.820 ppb	91.264 %	0.006 ppb	0.002 ppb	97.682 %	0.059 ppb
Concentration per Run 2	0.313 ppb	0.189 ppb	0.021 ppb	0.795 ppb	91.131 %	0.008 ppb	0.000 ppb	91.963 %	0.064 ppb
Concentration per Run 3	0.037 ppb	0.296 ppb	0.016 ppb	0.813 ppb	94.234 %	0.006 ppb	0.000 ppb	96.573 %	0.071 ppb
Recovery Percentage 1	35.250 %	5.287 %	0.289 %	40.473 %		1.677 %	0.391 %		1.618 %
Concentration RSD	78.3 %	24.7 %	60.7 %	1.6 %	1.9 %	14.7 %	142.4 %	3.2 %	9.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.046 ppb	92.634 %	96.100 %	0.410 ppb	0.011 ppb	93.785 %
Concentration per Run 1	0.028 ppb	89.835 %	94.597 %	0.345 ppb	0.016 ppb	98.296 %
Concentration per Run 2	0.057 ppb	92.006 %	94.501 %	0.488 ppb	0.011 ppb	91.582 %
Concentration per Run 3	0.054 ppb	96.061 %	99.202 %	0.398 ppb	0.008 ppb	91.476 %
Recovery Percentage 1	9.259 %			41.014 %	1.140 %	
Concentration RSD	34.0 %	3.4 %	2.8 %	17.6 %	34.6 %	4.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	132	User name	ALPHALAB\Metals-Instrument	Comment	CCV/MCCV
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 6:10:47 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.988 %	104.436 %	60.206 ppb	5,385.477 ppb	5,906.186 ppb	61.131 ppb	5,983.206 ppb	5,802.346 ppb	108.836 %
Concentration per Run 1	99.990 %	110.647 %	59.589 ppb	5,035.539 ppb	5,690.105 ppb	54.624 ppb	5,739.486 ppb	5,605.006 ppb	110.680 %
Concentration per Run 2	97.260 %	107.415 %	60.204 ppb	5,244.856 ppb	5,721.849 ppb	63.538 ppb	5,917.791 ppb	5,683.233 ppb	107.948 %
Concentration per Run 3	93.713 %	95.247 %	60.825 ppb	5,876.037 ppb	6,306.605 ppb	65.230 ppb	6,292.341 ppb	6,118.797 ppb	107.880 %
Recovery Percentage 1			100.343 %	89.758 %	98.436 %	101.884 %	99.720 %	96.706 %	
Concentration RSD	3.2 %	7.8 %	1.0 %	8.1 %	5.9 %	9.3 %	4.7 %	4.8 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	55.058 ppb	56.196 ppb	57.323 ppb	5,936.304 ppb	58.167 ppb	58.228 ppb	57.537 ppb	56.762 ppb	107.061 %
Concentration per Run 1	53.714 ppb	55.928 ppb	55.333 ppb	5,847.658 ppb	58.806 ppb	57.110 ppb	57.101 ppb	56.486 ppb	107.329 %
Concentration per Run 2	54.715 ppb	54.664 ppb	54.232 ppb	5,959.651 ppb	57.210 ppb	58.711 ppb	58.254 ppb	55.710 ppb	107.390 %
Concentration per Run 3	56.745 ppb	57.995 ppb	62.405 ppb	6,001.602 ppb	58.486 ppb	58.862 ppb	57.254 ppb	58.090 ppb	106.465 %
Recovery Percentage 1	91.763 %	93.659 %	95.539 %	98.938 %	96.945 %	97.046 %	95.894 %	94.603 %	
Concentration RSD	2.8 %	3.0 %	7.7 %	1.3 %	1.5 %	1.7 %	1.1 %	2.1 %	0.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	56.665 ppb	55.217 ppb	56.704 ppb	58.928 ppb	97.015 %	58.361 ppb	58.327 ppb	102.040 %	60.109 ppb
Concentration per Run 1	56.864 ppb	55.422 ppb	56.336 ppb	58.233 ppb	97.935 %	58.410 ppb	57.958 ppb	101.611 %	59.652 ppb
Concentration per Run 2	55.765 ppb	53.789 ppb	56.573 ppb	59.021 ppb	95.988 %	58.655 ppb	58.297 ppb	102.665 %	59.955 ppb
Concentration per Run 3	57.367 ppb	56.439 ppb	57.202 ppb	59.529 ppb	97.120 %	58.017 ppb	58.725 ppb	101.843 %	60.718 ppb
Recovery Percentage 1	94.442 %	92.028 %	94.506 %	98.213 %		97.268 %	97.211 %		100.181 %
Concentration RSD	1.4 %	2.4 %	0.8 %	1.1 %	1.0 %	0.6 %	0.7 %	0.5 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.686 ppb	98.689 %	101.692 %	57.429 ppb	55.955 ppb	119.996 %
Concentration per Run 1	58.239 ppb	99.846 %	102.660 %	54.874 ppb	55.719 ppb	154.289 %
Concentration per Run 2	58.112 ppb	99.540 %	102.750 %	56.290 ppb	55.265 ppb	108.542 %
Concentration per Run 3	59.707 ppb	96.683 %	99.667 %	61.124 ppb	56.881 ppb	97.157 %
Recovery Percentage 1	97.810 %			95.715 %	93.258 %	
Concentration RSD	1.5 %	1.8 %	1.7 %	5.7 %	1.5 %	25.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	133	User name	ALPHALAB\Metals-Instrument	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 6:15:30 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.358 %	97.085 %	0.014 ppb	54.509 ppb	0.469 ppb	-0.101 ppb	-0.139 ppb	3.734 ppb	95.091 %
Concentration per Run 1	93.906 %	94.106 %	0.007 ppb	57.245 ppb	0.566 ppb	0.075 ppb	3.304 ppb	3.904 ppb	97.287 %
Concentration per Run 2	91.637 %	102.281 %	0.019 ppb	45.002 ppb	0.163 ppb	0.059 ppb	5.007 ppb	4.018 ppb	93.820 %
Concentration per Run 3	91.532 %	94.867 %	0.017 ppb	61.279 ppb	0.677 ppb	-0.437 ppb	-8.729 ppb	3.279 ppb	94.166 %
Recovery Percentage 1			2.878 %	54.509 %	0.670 %	-1.009 %	-0.139 %	3.734 %	
Concentration RSD	1.5 %	4.7 %	45.8 %	15.6 %	57.7 %	289.0 %	5,378.7 %	10.6 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.056 ppb	-0.006 ppb	0.009 ppb	11.072 ppb	-0.004 ppb	0.019 ppb	-0.015 ppb	0.154 ppb	99.375 %
Concentration per Run 1	-0.043 ppb	-0.023 ppb	-0.050 ppb	11.174 ppb	-0.008 ppb	-0.002 ppb	-0.011 ppb	0.198 ppb	97.049 %
Concentration per Run 2	-0.082 ppb	-0.007 ppb	0.025 ppb	9.879 ppb	-0.001 ppb	0.025 ppb	-0.020 ppb	0.179 ppb	99.675 %
Concentration per Run 3	-0.044 ppb	0.012 ppb	0.052 ppb	12.164 ppb	-0.001 ppb	0.035 ppb	-0.013 ppb	0.085 ppb	101.399 %
Recovery Percentage 1	-1.127 %	-0.626 %	0.931 %	22.144 %	-0.759 %	0.972 %	-1.462 %	3.074 %	
Concentration RSD	39.3 %	283.8 %	566.9 %	10.4 %	106.2 %	98.5 %	29.9 %	39.4 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.247 ppb	0.339 ppb	0.006 ppb	0.760 ppb	93.943 %	0.004 ppb	0.001 ppb	98.254 %	0.083 ppb
Concentration per Run 1	0.302 ppb	0.516 ppb	0.013 ppb	0.892 ppb	93.063 %	0.003 ppb	0.000 ppb	97.574 %	0.064 ppb
Concentration per Run 2	0.287 ppb	0.170 ppb	-0.003 ppb	0.691 ppb	93.890 %	0.006 ppb	0.000 ppb	98.096 %	0.080 ppb
Concentration per Run 3	0.152 ppb	0.330 ppb	0.007 ppb	0.696 ppb	94.875 %	0.004 ppb	0.004 ppb	99.094 %	0.105 ppb
Recovery Percentage 1	49.408 %	6.775 %	0.059 %	37.994 %		1.039 %	0.679 %		2.084 %
Concentration RSD	33.4 %	51.1 %	134.1 %	15.1 %	1.0 %	33.7 %	162.5 %	0.8 %	24.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.008 ppb	92.914 %	95.448 %	0.469 ppb	0.010 ppb	92.980 %
Concentration per Run 1	-0.013 ppb	93.579 %	95.049 %	0.387 ppb	0.013 ppb	96.174 %
Concentration per Run 2	-0.013 ppb	90.942 %	94.332 %	0.557 ppb	0.009 ppb	90.907 %
Concentration per Run 3	0.000 ppb	94.222 %	96.965 %	0.462 ppb	0.008 ppb	91.858 %
Recovery Percentage 1	-1.682 %			46.856 %	0.987 %	
Concentration RSD	91.1 %	1.9 %	1.4 %	18.1 %	29.5 %	3.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	134	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859476-1 6020SL	Rack	2		
Analysis started at:	12/5/2023 6:22:32 PM	Vial	36		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.843 %	98.035 %	0.010 ppb	56.348 ppb	1.843 ppb	4.175 ppb	3.459 ppb	7.833 ppb	101.963 %
Concentration per Run 1	102.036 %	92.395 %	0.009 ppb	61.661 ppb	2.091 ppb	3.659 ppb	9.114 ppb	-4.195 ppb	103.156 %
Concentration per Run 2	100.834 %	91.255 %	0.011 ppb	68.883 ppb	2.346 ppb	5.945 ppb	9.288 ppb	14.771 ppb	102.606 %
Concentration per Run 3	93.660 %	110.456 %	0.009 ppb	38.500 ppb	1.093 ppb	2.921 ppb	-8.024 ppb	12.924 ppb	100.125 %
Concentration RSD	4.6 %	11.0 %	10.8 %	28.2 %	35.9 %	37.8 %	287.5 %	133.5 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.057 ppb	0.173 ppb	0.015 ppb	8.889 ppb	0.003 ppb	0.349 ppb	0.181 ppb	0.459 ppb	101.918 %
Concentration per Run 1	-0.058 ppb	0.184 ppb	0.005 ppb	10.579 ppb	0.006 ppb	0.404 ppb	0.236 ppb	0.445 ppb	96.953 %
Concentration per Run 2	-0.067 ppb	0.187 ppb	0.012 ppb	9.946 ppb	0.000 ppb	0.295 ppb	0.168 ppb	0.497 ppb	104.415 %
Concentration per Run 3	-0.047 ppb	0.148 ppb	0.029 ppb	6.142 ppb	0.002 ppb	0.347 ppb	0.140 ppb	0.436 ppb	104.385 %
Concentration RSD	17.1 %	12.6 %	79.7 %	27.0 %	122.3 %	15.6 %	27.3 %	7.1 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.151 ppb	0.119 ppb	0.009 ppb	0.232 ppb	94.642 %	0.011 ppb	-0.001 ppb	100.425 %	0.216 ppb
Concentration per Run 1	0.130 ppb	0.060 ppb	0.013 ppb	0.234 ppb	90.861 %	0.012 ppb	-0.002 ppb	92.681 %	0.219 ppb
Concentration per Run 2	0.207 ppb	0.223 ppb	0.000 ppb	0.237 ppb	95.046 %	0.012 ppb	-0.002 ppb	103.758 %	0.209 ppb
Concentration per Run 3	0.117 ppb	0.075 ppb	0.015 ppb	0.223 ppb	98.020 %	0.007 ppb	0.002 ppb	104.835 %	0.220 ppb
Concentration RSD	31.9 %	75.7 %	89.7 %	3.3 %	3.8 %	28.8 %	328.2 %	6.7 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.022 ppb	93.720 %	97.329 %	0.127 ppb	0.008 ppb	113.347 %
Concentration per Run 1	0.015 ppb	92.326 %	92.160 %	0.099 ppb	0.006 ppb	137.420 %
Concentration per Run 2	0.000 ppb	91.236 %	98.584 %	0.140 ppb	0.010 ppb	105.974 %
Concentration per Run 3	0.051 ppb	97.599 %	101.242 %	0.142 ppb	0.009 ppb	96.646 %
Concentration RSD	117.8 %	3.6 %	4.8 %	19.1 %	27.3 %	18.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	135	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859476-2d10 6020SL	Rack	2		
Analysis started at:	12/5/2023 6:27:12 PM	Vial	37		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.120 %	100.127 %	4.942 ppb	993.907 ppb	1,080.998 ppb	218.366 ppb	1,061.171 ppb	1,017.413 ppb	99.597 %
Concentration per Run 1	96.973 %	94.867 %	4.973 ppb	1,049.599 ppb	1,157.407 ppb	241.569 ppb	1,157.928 ppb	1,075.060 ppb	100.417 %
Concentration per Run 2	94.785 %	112.358 %	4.961 ppb	901.741 ppb	995.037 ppb	195.965 ppb	976.917 ppb	932.637 ppb	100.057 %
Concentration per Run 3	93.603 %	93.156 %	4.891 ppb	1,030.381 ppb	1,090.550 ppb	217.563 ppb	1,048.669 ppb	1,044.541 ppb	98.318 %
Concentration RSD	1.8 %	10.6 %	0.9 %	8.1 %	7.5 %	10.4 %	8.6 %	7.4 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.246 ppb	18.965 ppb	48.772 ppb	104.571 ppb	49.172 ppb	47.999 ppb	24.041 ppb	62.597 ppb	102.856 %
Concentration per Run 1	48.214 ppb	19.398 ppb	49.402 ppb	105.314 ppb	50.733 ppb	49.408 ppb	25.950 ppb	66.004 ppb	100.805 %
Concentration per Run 2	46.212 ppb	18.204 ppb	46.137 ppb	101.146 ppb	47.045 ppb	46.278 ppb	22.676 ppb	60.048 ppb	104.670 %
Concentration per Run 3	47.312 ppb	19.293 ppb	50.777 ppb	107.252 ppb	49.739 ppb	48.309 ppb	23.498 ppb	61.739 ppb	103.094 %
Concentration RSD	2.1 %	3.5 %	4.9 %	3.0 %	3.9 %	3.3 %	7.1 %	4.9 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.984 ppb	12.457 ppb	97.625 ppb	96.572 ppb	95.799 %	4.767 ppb	5.009 ppb	104.033 %	32.516 ppb
Concentration per Run 1	12.523 ppb	12.814 ppb	100.479 ppb	94.943 ppb	94.285 %	4.723 ppb	5.028 ppb	106.100 %	32.766 ppb
Concentration per Run 2	12.059 ppb	11.821 ppb	97.155 ppb	96.402 ppb	96.976 %	4.796 ppb	4.982 ppb	102.424 %	32.218 ppb
Concentration per Run 3	11.368 ppb	12.736 ppb	95.240 ppb	98.370 ppb	96.135 %	4.782 ppb	5.016 ppb	103.575 %	32.566 ppb
Concentration RSD	4.8 %	4.4 %	2.7 %	1.8 %	1.4 %	0.8 %	0.5 %	1.8 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	188.793 ppb	95.101 %	99.225 %	12.390 ppb	51.457 ppb	93.591 %
Concentration per Run 1	192.758 ppb	95.585 %	100.772 %	12.069 ppb	51.013 ppb	97.282 %
Concentration per Run 2	192.644 ppb	93.800 %	97.418 %	12.593 ppb	52.435 ppb	91.757 %
Concentration per Run 3	180.977 ppb	95.917 %	99.485 %	12.508 ppb	50.924 ppb	91.734 %
Concentration RSD	3.6 %	1.2 %	1.7 %	2.3 %	1.6 %	3.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 136
Analysis label: WG1859476-3d10 6020SL
Analysis started at: 12/5/2023 6:31:53 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 39
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.102 %	100.317 %	5.170 ppb	21,176.533 ppb	2,600.923 ppb	210.294 ppb	1,619.610 ppb	12,002.232 ppb	95.070 %
Concentration per Run 1	92.200 %	105.513 %	5.134 ppb	20,481.697 ppb	2,549.235 ppb	212.690 ppb	1,631.873 ppb	12,132.125 ppb	95.494 %
Concentration per Run 2	89.231 %	99.049 %	5.009 ppb	21,630.314 ppb	2,615.959 ppb	204.358 ppb	1,606.647 ppb	12,031.284 ppb	94.675 %
Concentration per Run 3	88.875 %	96.388 %	5.368 ppb	21,417.587 ppb	2,637.574 ppb	213.832 ppb	1,620.312 ppb	11,843.289 ppb	95.040 %
Concentration RSD	2.0 %	4.7 %	3.5 %	2.9 %	1.8 %	2.5 %	0.8 %	1.2 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.230 ppb	18.047 ppb	165.182 ppb	99.735 ppb	46.240 ppb	46.876 ppb	23.424 ppb	46.609 ppb	104.293 %
Concentration per Run 1	46.099 ppb	17.362 ppb	159.462 ppb	88.614 ppb	45.078 ppb	44.912 ppb	23.395 ppb	46.289 ppb	106.571 %
Concentration per Run 2	46.571 ppb	18.193 ppb	169.774 ppb	109.230 ppb	47.179 ppb	49.098 ppb	24.264 ppb	47.266 ppb	102.354 %
Concentration per Run 3	49.022 ppb	18.586 ppb	166.310 ppb	101.361 ppb	46.463 ppb	46.616 ppb	22.614 ppb	46.271 ppb	103.953 %
Concentration RSD	3.3 %	3.5 %	3.2 %	10.4 %	2.3 %	4.5 %	3.5 %	1.2 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.988 ppb	13.177 ppb	122.284 ppb	102.007 ppb	92.243 %	4.852 ppb	5.124 ppb	100.492 %	44.007 ppb
Concentration per Run 1	11.901 ppb	13.890 ppb	125.056 ppb	98.906 ppb	93.868 %	4.806 ppb	5.017 ppb	105.082 %	43.196 ppb
Concentration per Run 2	11.898 ppb	13.043 ppb	119.911 ppb	102.705 ppb	92.608 %	4.921 ppb	4.952 ppb	98.176 %	44.138 ppb
Concentration per Run 3	12.165 ppb	12.596 ppb	121.886 ppb	104.410 ppb	90.251 %	4.830 ppb	5.403 ppb	98.220 %	44.686 ppb
Concentration RSD	1.3 %	5.0 %	2.1 %	2.8 %	2.0 %	1.3 %	4.8 %	4.0 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	209.218 ppb	95.823 %	99.376 %	12.374 ppb	50.198 ppb	93.445 %
Concentration per Run 1	202.079 ppb	99.872 %	103.073 %	11.866 ppb	47.688 ppb	99.018 %
Concentration per Run 2	209.707 ppb	93.289 %	97.516 %	12.665 ppb	51.149 ppb	91.319 %
Concentration per Run 3	215.868 ppb	94.307 %	97.538 %	12.591 ppb	51.757 ppb	89.999 %
Concentration RSD	3.3 %	3.7 %	3.2 %	3.6 %	4.4 %	5.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 137
Analysis label: WG1859476-5d10 6020SL
Analysis started at: 12/5/2023 6:36:33 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 41
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.056 %	100.570 %	48.801 ppb	24,777.519 ppb	6,495.969 ppb	51.563 ppb	5,505.939 ppb	16,347.133 ppb	97.713 %
Concentration per Run 1	91.146 %	106.084 %	49.127 ppb	24,474.564 ppb	6,403.338 ppb	51.074 ppb	5,578.759 ppb	16,333.328 ppb	98.480 %
Concentration per Run 2	90.144 %	100.570 %	48.602 ppb	23,818.913 ppb	6,025.381 ppb	50.471 ppb	5,348.446 ppb	16,357.879 ppb	98.930 %
Concentration per Run 3	85.878 %	95.057 %	48.674 ppb	26,039.080 ppb	7,059.187 ppb	53.146 ppb	5,590.612 ppb	16,350.191 ppb	95.728 %
Concentration RSD	3.1 %	5.5 %	0.6 %	4.6 %	8.1 %	2.7 %	2.5 %	0.1 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.391 ppb	45.580 ppb	168.216 ppb	4,811.204 ppb	46.959 ppb	47.243 ppb	46.615 ppb	46.627 ppb	101.168 %
Concentration per Run 1	45.705 ppb	44.524 ppb	163.748 ppb	4,832.221 ppb	46.654 ppb	46.519 ppb	44.313 ppb	45.287 ppb	103.921 %
Concentration per Run 2	44.930 ppb	43.925 ppb	161.295 ppb	4,693.174 ppb	45.805 ppb	46.174 ppb	46.187 ppb	45.660 ppb	102.046 %
Concentration per Run 3	48.537 ppb	48.290 ppb	179.605 ppb	4,908.218 ppb	48.418 ppb	49.035 ppb	49.344 ppb	48.935 ppb	97.538 %
Concentration RSD	4.1 %	5.2 %	5.9 %	2.3 %	2.8 %	3.3 %	5.5 %	4.3 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	46.847 ppb	48.416 ppb	69.960 ppb	50.014 ppb	92.717 %	1.473 ppb	46.556 ppb	99.238 %	49.728 ppb
Concentration per Run 1	45.632 ppb	49.777 ppb	73.040 ppb	49.045 ppb	92.528 %	1.508 ppb	46.198 ppb	104.102 %	50.789 ppb
Concentration per Run 2	47.137 ppb	46.403 ppb	67.183 ppb	49.940 ppb	92.386 %	1.410 ppb	45.698 ppb	98.326 %	49.021 ppb
Concentration per Run 3	47.773 ppb	49.067 ppb	69.657 ppb	51.057 ppb	93.237 %	1.501 ppb	47.772 ppb	95.285 %	49.375 ppb
Concentration RSD	2.3 %	3.7 %	4.2 %	2.0 %	0.5 %	3.7 %	2.3 %	4.5 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	63.730 ppb	94.226 %	97.329 %	45.091 ppb	43.633 ppb	93.511 %
Concentration per Run 1	65.808 ppb	95.109 %	101.109 %	42.932 ppb	42.683 ppb	97.051 %
Concentration per Run 2	61.578 ppb	95.505 %	97.477 %	43.861 ppb	43.025 ppb	93.982 %
Concentration per Run 3	63.804 ppb	92.066 %	93.400 %	48.481 ppb	45.192 ppb	89.501 %
Concentration RSD	3.3 %	2.0 %	4.0 %	6.6 %	3.1 %	4.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	138	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859476-4 6020SL	Rack	2		
Analysis started at:	12/5/2023 6:41:13 PM	Vial	40		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.495 %	95.057 %	0.015 ppb	200,299.364 ppb	16,398.844 ppb	3.954 ppb	6,017.152 ppb	115,662.355 ppb	97.551 %
Concentration per Run 1	91.164 %	96.768 %	0.019 ppb	202,277.679 ppb	18,089.551 ppb	3.689 ppb	6,396.670 ppb	121,126.860 ppb	98.183 %
Concentration per Run 2	89.350 %	93.916 %	0.009 ppb	206,708.015 ppb	16,095.880 ppb	5.287 ppb	6,092.728 ppb	117,669.253 ppb	96.612 %
Concentration per Run 3	87.969 %	94.487 %	0.016 ppb	191,912.396 ppb	15,011.102 ppb	2.886 ppb	5,562.059 ppb	108,190.951 ppb	97.857 %
Concentration RSD	1.8 %	1.6 %	35.2 %	3.8 %	9.5 %	30.9 %	7.0 %	5.8 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.259 ppb	0.172 ppb	1,147.183 ppb	17.060 ppb	0.114 ppb	2.364 ppb	2.973 ppb	3.520 ppb	95.295 %
Concentration per Run 1	0.315 ppb	0.212 ppb	1,112.914 ppb	17.356 ppb	0.085 ppb	2.238 ppb	2.953 ppb	3.580 ppb	97.709 %
Concentration per Run 2	0.288 ppb	0.136 ppb	1,214.673 ppb	15.654 ppb	0.139 ppb	2.583 ppb	3.049 ppb	3.499 ppb	91.866 %
Concentration per Run 3	0.175 ppb	0.167 ppb	1,113.963 ppb	18.170 ppb	0.119 ppb	2.271 ppb	2.918 ppb	3.481 ppb	96.311 %
Concentration RSD	28.7 %	22.5 %	5.1 %	7.5 %	24.1 %	8.0 %	2.3 %	1.5 %	3.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.351 ppb	6.719 ppb	247.311 ppb	2.471 ppb	86.115 %	0.002 ppb	0.266 ppb	93.008 %	1.029 ppb
Concentration per Run 1	0.486 ppb	6.772 ppb	259.381 ppb	2.549 ppb	88.552 %	0.004 ppb	0.274 ppb	100.866 %	0.972 ppb
Concentration per Run 2	0.490 ppb	8.172 ppb	253.562 ppb	2.430 ppb	85.347 %	0.002 ppb	0.243 ppb	88.602 %	1.081 ppb
Concentration per Run 3	0.076 ppb	5.212 ppb	228.990 ppb	2.433 ppb	84.445 %	0.001 ppb	0.281 ppb	89.555 %	1.035 ppb
Concentration RSD	67.8 %	22.0 %	6.5 %	2.7 %	2.5 %	82.3 %	7.5 %	7.3 %	5.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	164.156 ppb	90.661 %	96.608 %	0.428 ppb	0.099 ppb	84.893 %
Concentration per Run 1	162.506 ppb	93.676 %	103.606 %	0.324 ppb	0.093 ppb	93.161 %
Concentration per Run 2	172.267 ppb	89.266 %	92.885 %	0.530 ppb	0.106 ppb	80.794 %
Concentration per Run 3	157.695 ppb	89.040 %	93.333 %	0.429 ppb	0.098 ppb	80.723 %
Concentration RSD	4.5 %	2.9 %	6.3 %	24.0 %	6.4 %	8.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	139	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370760-01 6020SL	Rack	2		
Analysis started at:	12/5/2023 6:45:54 PM	Vial	38		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.570 %	92.078 %	0.005 ppb	202,340.939 ppb	15,550.696 ppb	5.037 ppb	6,001.593 ppb	111,203.187 ppb	97.200 %
Concentration per Run 1	90.612 %	93.156 %	0.009 ppb	209,039.497 ppb	16,123.162 ppb	4.194 ppb	6,244.798 ppb	114,545.367 ppb	96.134 %
Concentration per Run 2	90.332 %	90.684 %	0.004 ppb	207,895.301 ppb	15,988.251 ppb	7.281 ppb	6,227.303 ppb	114,074.833 ppb	98.841 %
Concentration per Run 3	87.765 %	92.395 %	0.003 ppb	190,088.019 ppb	14,540.675 ppb	3.638 ppb	5,532.680 ppb	104,989.362 ppb	96.624 %
Concentration RSD	1.8 %	1.4 %	60.1 %	5.3 %	5.6 %	39.0 %	6.8 %	4.8 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.336 ppb	0.178 ppb	1,123.970 ppb	11.794 ppb	0.111 ppb	3.694 ppb	3.300 ppb	3.283 ppb	94.970 %
Concentration per Run 1	0.302 ppb	0.197 ppb	1,119.135 ppb	9.344 ppb	0.108 ppb	3.402 ppb	3.226 ppb	3.126 ppb	101.525 %
Concentration per Run 2	0.375 ppb	0.181 ppb	1,165.101 ppb	11.708 ppb	0.129 ppb	4.057 ppb	3.383 ppb	3.595 ppb	91.384 %
Concentration per Run 3	0.330 ppb	0.156 ppb	1,087.674 ppb	14.331 ppb	0.097 ppb	3.623 ppb	3.291 ppb	3.128 ppb	92.000 %
Concentration RSD	11.0 %	11.6 %	3.5 %	21.1 %	14.6 %	9.0 %	2.4 %	8.2 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.586 ppb	5.267 ppb	246.873 ppb	1.541 ppb	84.442 %	0.002 ppb	0.283 ppb	92.551 %	0.614 ppb
Concentration per Run 1	0.721 ppb	6.273 ppb	256.051 ppb	1.375 ppb	85.845 %	0.002 ppb	0.271 ppb	96.546 %	0.593 ppb
Concentration per Run 2	0.518 ppb	4.809 ppb	250.935 ppb	1.626 ppb	84.052 %	0.003 ppb	0.279 ppb	90.530 %	0.633 ppb
Concentration per Run 3	0.518 ppb	4.718 ppb	233.634 ppb	1.622 ppb	83.430 %	0.002 ppb	0.299 ppb	90.577 %	0.616 ppb
Concentration RSD	20.0 %	16.6 %	4.8 %	9.3 %	1.5 %	35.3 %	5.0 %	3.7 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	164.258 ppb	89.644 %	94.506 %	0.135 ppb	0.056 ppb	82.266 %
Concentration per Run 1	173.147 ppb	91.721 %	99.435 %	0.086 ppb	0.050 ppb	89.812 %
Concentration per Run 2	163.187 ppb	91.085 %	93.845 %	0.160 ppb	0.059 ppb	79.226 %
Concentration per Run 3	156.440 ppb	86.125 %	90.237 %	0.159 ppb	0.058 ppb	77.759 %
Concentration RSD	5.1 %	3.4 %	4.9 %	31.3 %	8.9 %	8.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	140	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370599-04 6020TL	Rack	2		
Analysis started at:	12/5/2023 6:50:34 PM	Vial	33		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.419 %	102.028 %	0.007 ppb	252.890 ppb	8.334 ppb	2.249 ppb	5.648 ppb	32.752 ppb	95.528 %
Concentration per Run 1	96.488 %	104.563 %	0.000 ppb	257.072 ppb	7.710 ppb	2.307 ppb	10.532 ppb	52.778 ppb	97.021 %
Concentration per Run 2	94.223 %	96.768 %	0.011 ppb	267.455 ppb	8.632 ppb	3.378 ppb	2.061 ppb	26.498 ppb	96.123 %
Concentration per Run 3	92.545 %	104.753 %	0.009 ppb	234.143 ppb	8.661 ppb	1.063 ppb	4.351 ppb	18.979 ppb	93.440 %
Concentration RSD	2.1 %	4.5 %	83.2 %	6.7 %	6.5 %	51.5 %	77.6 %	54.2 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.013 ppb	0.085 ppb	0.105 ppb	2.026 ppb	-0.003 ppb	-0.003 ppb	0.177 ppb	0.033 ppb	97.902 %
Concentration per Run 1	0.027 ppb	0.077 ppb	0.175 ppb	2.863 ppb	-0.002 ppb	-0.005 ppb	0.126 ppb	0.015 ppb	101.197 %
Concentration per Run 2	0.026 ppb	0.055 ppb	0.084 ppb	1.614 ppb	-0.003 ppb	0.008 ppb	0.187 ppb	0.046 ppb	97.305 %
Concentration per Run 3	-0.014 ppb	0.123 ppb	0.056 ppb	1.601 ppb	-0.006 ppb	-0.013 ppb	0.217 ppb	0.038 ppb	95.204 %
Concentration RSD	179.3 %	40.9 %	59.7 %	35.8 %	62.1 %	299.6 %	26.4 %	49.2 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.165 ppb	0.025 ppb	1.044 ppb	0.281 ppb	92.773 %	0.000 ppb	-0.001 ppb	95.583 %	0.282 ppb
Concentration per Run 1	0.156 ppb	0.075 ppb	1.109 ppb	0.284 ppb	93.512 %	0.000 ppb	-0.002 ppb	99.291 %	0.262 ppb
Concentration per Run 2	0.313 ppb	0.092 ppb	1.063 ppb	0.247 ppb	93.105 %	-0.001 ppb	0.000 ppb	97.343 %	0.296 ppb
Concentration per Run 3	0.025 ppb	-0.091 ppb	0.959 ppb	0.312 ppb	91.702 %	0.000 ppb	-0.002 ppb	90.115 %	0.288 ppb
Concentration RSD	87.6 %	399.2 %	7.4 %	11.6 %	1.0 %	149.8 %	93.2 %	5.1 %	6.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.734 ppb	90.367 %	93.765 %	0.064 ppb	0.005 ppb	89.220 %
Concentration per Run 1	0.829 ppb	92.672 %	97.076 %	0.035 ppb	0.004 ppb	94.419 %
Concentration per Run 2	0.738 ppb	90.546 %	93.638 %	0.078 ppb	0.005 ppb	87.419 %
Concentration per Run 3	0.636 ppb	87.881 %	90.581 %	0.079 ppb	0.006 ppb	85.821 %
Concentration RSD	13.2 %	2.7 %	3.5 %	39.1 %	27.9 %	5.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	141	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370592-08 6020TL	Rack	2		
Analysis started at:	12/5/2023 6:55:14 PM	Vial	32		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.019 %	78.200 %	0.065 ppb	1,537,927.660 ppb	5,067.176 ppb	1,971.486 ppb	3,318.485 ppb	25,459.719 ppb	100.772 %
Concentration per Run 1	91.025 %	80.608 %	0.065 ppb	1,558,367.866 ppb	5,199.355 ppb	2,011.038 ppb	3,391.483 ppb	25,319.315 ppb	102.546 %
Concentration per Run 2	88.040 %	79.087 %	0.059 ppb	1,499,619.632 ppb	5,001.819 ppb	1,963.500 ppb	3,389.618 ppb	25,403.765 ppb	100.990 %
Concentration per Run 3	84.992 %	74.905 %	0.070 ppb	1,555,795.481 ppb	5,000.352 ppb	1,939.921 ppb	3,174.355 ppb	25,656.077 ppb	98.781 %
Concentration RSD	3.4 %	3.8 %	8.3 %	2.2 %	2.3 %	1.8 %	3.8 %	0.7 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.470 ppb	7.405 ppb	148.736 ppb	6,793.332 ppb	3.487 ppb	56.302 ppb	448.751 ppb	1,974.322 ppb	85.850 %
Concentration per Run 1	4.379 ppb	7.720 ppb	148.253 ppb	6,556.292 ppb	3.351 ppb	56.102 ppb	442.737 ppb	1,968.317 ppb	87.727 %
Concentration per Run 2	4.524 ppb	7.202 ppb	145.350 ppb	6,757.825 ppb	3.446 ppb	55.186 ppb	441.152 ppb	1,925.857 ppb	87.379 %
Concentration per Run 3	4.506 ppb	7.295 ppb	152.605 ppb	7,065.880 ppb	3.663 ppb	57.617 ppb	462.364 ppb	2,028.792 ppb	82.445 %
Concentration RSD	1.8 %	3.7 %	2.5 %	3.8 %	4.6 %	2.2 %	2.6 %	2.6 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.311 ppb	0.856 ppb	255.564 ppb	4.506 ppb	74.409 %	0.379 ppb	0.410 ppb	82.692 %	2.620 ppb
Concentration per Run 1	2.326 ppb	1.097 ppb	256.223 ppb	4.505 ppb	74.746 %	0.370 ppb	0.396 ppb	83.745 %	2.646 ppb
Concentration per Run 2	2.354 ppb	0.905 ppb	259.142 ppb	4.425 ppb	74.945 %	0.383 ppb	0.425 ppb	83.940 %	2.647 ppb
Concentration per Run 3	2.254 ppb	0.566 ppb	251.325 ppb	4.588 ppb	73.536 %	0.383 ppb	0.407 ppb	80.392 %	2.567 ppb
Concentration RSD	2.2 %	31.4 %	1.5 %	1.8 %	1.0 %	1.9 %	3.6 %	2.4 %	1.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	211.954 ppb	83.999 %	89.382 %	0.076 ppb	60.856 ppb	77.536 %
Concentration per Run 1	217.093 ppb	83.513 %	88.644 %	0.045 ppb	56.794 ppb	83.248 %
Concentration per Run 2	215.343 ppb	84.833 %	90.592 %	0.100 ppb	61.955 ppb	75.838 %
Concentration per Run 3	203.426 ppb	83.651 %	88.912 %	0.084 ppb	63.820 ppb	73.523 %
Concentration RSD	3.5 %	0.9 %	1.2 %	37.1 %	6.0 %	6.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 142
Analysis label: I2370599-07 6020TL
Analysis started at: 12/5/2023 6:59:54 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 34
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	115.422 %	94.043 %	0.014 ppb	55,754.457 ppb	35,195.915 ppb	171.301 ppb	21,468.509 ppb	3,596.942 ppb	111.147 %
Concentration per Run 1	118.292 %	96.198 %	0.008 ppb	55,513.184 ppb	34,961.995 ppb	167.983 ppb	21,125.278 ppb	2,839.236 ppb	112.073 %
Concentration per Run 2	116.262 %	101.521 %	0.019 ppb	53,396.727 ppb	33,687.656 ppb	171.076 ppb	20,485.736 ppb	1,314.220 ppb	110.863 %
Concentration per Run 3	111.712 %	84.410 %	0.015 ppb	58,353.461 ppb	36,938.093 ppb	174.843 ppb	22,794.514 ppb	6,637.370 ppb	110.504 %
Concentration RSD	2.9 %	9.3 %	38.1 %	4.5 %	4.7 %	2.0 %	5.6 %	76.2 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	10.672 ppb	5.873 ppb	7.551 ppb	146.097 ppb	0.342 ppb	2.032 ppb	1.882 ppb	6.278 ppb	95.690 %
Concentration per Run 1	11.034 ppb	6.120 ppb	7.571 ppb	150.928 ppb	0.333 ppb	2.149 ppb	1.882 ppb	6.202 ppb	94.944 %
Concentration per Run 2	10.150 ppb	5.614 ppb	7.744 ppb	139.763 ppb	0.342 ppb	1.914 ppb	1.918 ppb	6.210 ppb	99.622 %
Concentration per Run 3	10.833 ppb	5.884 ppb	7.337 ppb	147.599 ppb	0.350 ppb	2.033 ppb	1.847 ppb	6.422 ppb	92.504 %
Concentration RSD	4.3 %	4.3 %	2.7 %	3.9 %	2.5 %	5.8 %	1.9 %	2.0 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.073 ppb	1.389 ppb	3,648.934 ppb	10.364 ppb	86.922 %	0.001 ppb	0.180 ppb	94.611 %	3.364 ppb
Concentration per Run 1	12.299 ppb	1.559 ppb	3,805.348 ppb	9.888 ppb	86.898 %	0.001 ppb	0.174 ppb	94.784 %	3.351 ppb
Concentration per Run 2	11.849 ppb	1.168 ppb	3,805.111 ppb	10.760 ppb	87.214 %	0.002 ppb	0.190 ppb	100.138 %	3.372 ppb
Concentration per Run 3	12.070 ppb	1.440 ppb	3,336.342 ppb	10.445 ppb	86.652 %	0.002 ppb	0.175 ppb	88.910 %	3.369 ppb
Concentration RSD	1.9 %	14.4 %	7.4 %	4.3 %	0.3 %	55.3 %	5.2 %	5.9 %	0.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	477.468 ppb	93.330 %	97.798 %	0.055 ppb	0.588 ppb	86.263 %
Concentration per Run 1	489.197 ppb	94.619 %	101.010 %	0.036 ppb	0.547 ppb	91.733 %
Concentration per Run 2	475.079 ppb	91.269 %	95.231 %	0.068 ppb	0.606 ppb	84.995 %
Concentration per Run 3	468.128 ppb	94.102 %	97.154 %	0.060 ppb	0.610 ppb	82.061 %
Concentration RSD	2.2 %	1.9 %	3.0 %	30.6 %	5.9 %	5.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 143
Analysis label: WG1859476-6d5 6020SL
Analysis started at: 12/5/2023 7:04:35 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 42
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	107.841 %	92.459 %	0.004 ppb	40,877.902 ppb	3,188.042 ppb	1.535 ppb	1,208.846 ppb	22,199.604 ppb	108.647 %
Concentration per Run 1	110.602 %	98.099 %	0.001 ppb	40,059.046 ppb	3,081.060 ppb	1.144 ppb	1,138.936 ppb	21,939.842 ppb	109.675 %
Concentration per Run 2	108.324 %	88.783 %	0.010 ppb	42,360.894 ppb	3,285.552 ppb	2.067 ppb	1,281.363 ppb	23,084.891 ppb	108.646 %
Concentration per Run 3	104.598 %	90.494 %	0.001 ppb	40,213.767 ppb	3,197.515 ppb	1.394 ppb	1,206.237 ppb	21,574.078 ppb	107.620 %
Concentration RSD	2.8 %	5.4 %	129.9 %	3.1 %	3.2 %	31.1 %	5.9 %	3.6 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.035 ppb	0.031 ppb	234.179 ppb	5.265 ppb	0.027 ppb	0.839 ppb	0.643 ppb	0.744 ppb	94.791 %
Concentration per Run 1	-0.012 ppb	0.015 ppb	225.499 ppb	3.471 ppb	0.017 ppb	0.854 ppb	0.725 ppb	0.618 ppb	95.147 %
Concentration per Run 2	0.045 ppb	0.043 ppb	236.504 ppb	5.205 ppb	0.041 ppb	0.876 ppb	0.609 ppb	0.863 ppb	96.676 %
Concentration per Run 3	0.073 ppb	0.035 ppb	240.535 ppb	7.118 ppb	0.024 ppb	0.788 ppb	0.596 ppb	0.752 ppb	92.549 %
Concentration RSD	122.4 %	45.6 %	3.3 %	34.6 %	45.5 %	5.4 %	11.1 %	16.5 %	2.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.125 ppb	1.262 ppb	48.772 ppb	0.398 ppb	88.771 %	0.001 ppb	0.066 ppb	96.636 %	0.150 ppb
Concentration per Run 1	0.311 ppb	1.042 ppb	49.595 ppb	0.353 ppb	87.553 %	0.001 ppb	0.087 ppb	96.476 %	0.156 ppb
Concentration per Run 2	0.060 ppb	1.588 ppb	48.035 ppb	0.395 ppb	90.047 %	0.000 ppb	0.053 ppb	97.993 %	0.152 ppb
Concentration per Run 3	0.005 ppb	1.155 ppb	48.684 ppb	0.448 ppb	88.713 %	0.000 ppb	0.059 ppb	95.440 %	0.142 ppb
Concentration RSD	130.0 %	22.9 %	1.6 %	11.9 %	1.4 %	120.5 %	27.0 %	1.3 %	4.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	30.883 ppb	92.800 %	98.175 %	0.022 ppb	0.011 ppb	90.819 %
Concentration per Run 1	32.206 ppb	92.082 %	99.287 %	0.008 ppb	0.011 ppb	93.809 %
Concentration per Run 2	29.862 ppb	93.668 %	96.530 %	0.027 ppb	0.011 ppb	90.834 %
Concentration per Run 3	30.580 ppb	92.652 %	98.709 %	0.032 ppb	0.011 ppb	87.815 %
Concentration RSD	3.9 %	0.9 %	1.5 %	58.0 %	2.1 %	3.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	144	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 7:09:15 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.826 %	93.029 %	59.688 ppb	5,603.894 ppb	6,314.112 ppb	64.712 ppb	5,981.398 ppb	5,821.025 ppb	112.228 %
Concentration per Run 1	106.340 %	91.445 %	59.780 ppb	5,727.182 ppb	6,395.253 ppb	66.206 ppb	6,354.698 ppb	5,978.698 ppb	113.449 %
Concentration per Run 2	105.276 %	91.445 %	59.903 ppb	5,528.701 ppb	6,270.459 ppb	66.237 ppb	6,025.866 ppb	5,829.582 ppb	114.300 %
Concentration per Run 3	102.861 %	96.198 %	59.380 ppb	5,555.801 ppb	6,276.623 ppb	61.694 ppb	5,563.630 ppb	5,654.795 ppb	108.934 %
Recovery Percentage 1			99.480 %	93.398 %	105.235 %	107.854 %	99.690 %	97.017 %	
Concentration RSD	1.7 %	2.9 %	0.5 %	1.9 %	1.1 %	4.0 %	6.6 %	2.8 %	2.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.690 ppb	57.051 ppb	58.565 ppb	5,967.058 ppb	59.547 ppb	60.983 ppb	59.402 ppb	59.342 ppb	97.773 %
Concentration per Run 1	57.879 ppb	58.228 ppb	59.532 ppb	5,987.662 ppb	60.964 ppb	61.119 ppb	59.442 ppb	60.935 ppb	95.450 %
Concentration per Run 2	57.891 ppb	56.199 ppb	57.810 ppb	6,017.127 ppb	60.351 ppb	62.841 ppb	61.321 ppb	60.110 ppb	94.336 %
Concentration per Run 3	57.300 ppb	56.727 ppb	58.353 ppb	5,896.386 ppb	57.326 ppb	58.989 ppb	57.441 ppb	56.980 ppb	103.534 %
Recovery Percentage 1	96.150 %	95.086 %	97.609 %	99.451 %	99.245 %	101.638 %	99.003 %	98.903 %	
Concentration RSD	0.6 %	1.8 %	1.5 %	1.1 %	3.3 %	3.2 %	3.3 %	3.5 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.483 ppb	56.816 ppb	57.602 ppb	58.581 ppb	91.456 %	57.915 ppb	57.810 ppb	95.973 %	59.723 ppb
Concentration per Run 1	60.509 ppb	58.346 ppb	59.321 ppb	57.913 ppb	89.666 %	59.108 ppb	58.653 ppb	97.820 %	58.625 ppb
Concentration per Run 2	58.743 ppb	55.078 ppb	55.647 ppb	57.423 ppb	92.648 %	57.047 ppb	55.388 ppb	94.328 %	58.235 ppb
Concentration per Run 3	56.198 ppb	57.024 ppb	57.839 ppb	60.407 ppb	92.055 %	57.590 ppb	59.388 ppb	95.771 %	62.310 ppb
Recovery Percentage 1	97.472 %	94.693 %	96.004 %	97.635 %		96.525 %	96.350 %		99.539 %
Concentration RSD	3.7 %	2.9 %	3.2 %	2.7 %	1.7 %	1.8 %	3.7 %	1.8 %	3.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.428 ppb	93.079 %	97.383 %	57.832 ppb	54.997 ppb	91.713 %
Concentration per Run 1	58.480 ppb	90.598 %	98.881 %	54.475 ppb	53.328 ppb	93.285 %
Concentration per Run 2	57.790 ppb	92.520 %	95.786 %	57.963 ppb	55.313 ppb	90.710 %
Concentration per Run 3	62.014 ppb	96.119 %	97.482 %	61.059 ppb	56.350 ppb	91.143 %
Recovery Percentage 1	99.046 %			96.387 %	91.662 %	
Concentration RSD	3.8 %	3.0 %	1.6 %	5.7 %	2.8 %	1.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	145	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 7:13:59 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.654 %	90.051 %	0.014 ppb	90.917 ppb	0.235 ppb	0.429 ppb	11.533 ppb	3.167 ppb	95.618 %
Concentration per Run 1	100.701 %	89.353 %	0.019 ppb	91.763 ppb	0.508 ppb	0.565 ppb	6.925 ppb	-3.565 ppb	96.463 %
Concentration per Run 2	97.983 %	86.502 %	0.008 ppb	103.883 ppb	-0.074 ppb	0.698 ppb	16.165 ppb	-0.522 ppb	93.884 %
Concentration per Run 3	97.279 %	94.296 %	0.017 ppb	77.104 ppb	0.272 ppb	0.024 ppb	11.509 ppb	13.589 ppb	96.507 %
Recovery Percentage 1			2.895 %	90.917 %	0.336 %	4.289 %	11.533 %	3.167 %	
Concentration RSD	1.8 %	4.4 %	41.3 %	14.7 %	124.3 %	83.2 %	40.1 %	288.9 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.027 ppb	0.045 ppb	-0.004 ppb	10.872 ppb	0.002 ppb	0.021 ppb	-0.011 ppb	0.155 ppb	93.157 %
Concentration per Run 1	-0.033 ppb	0.005 ppb	-0.032 ppb	11.416 ppb	0.006 ppb	0.006 ppb	-0.006 ppb	0.128 ppb	92.953 %
Concentration per Run 2	-0.006 ppb	0.061 ppb	-0.014 ppb	11.268 ppb	0.000 ppb	0.036 ppb	-0.012 ppb	0.158 ppb	90.358 %
Concentration per Run 3	-0.043 ppb	0.069 ppb	0.033 ppb	9.932 ppb	0.000 ppb	0.019 ppb	-0.015 ppb	0.179 ppb	96.160 %
Recovery Percentage 1	-0.540 %	4.479 %	-0.427 %	21.744 %	0.382 %	1.031 %	-1.093 %	3.104 %	
Concentration RSD	70.4 %	77.2 %	777.9 %	7.5 %	166.4 %	72.4 %	41.5 %	16.8 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.083 ppb	0.263 ppb	0.010 ppb	0.762 ppb	91.992 %	0.003 ppb	0.001 ppb	94.221 %	0.127 ppb
Concentration per Run 1	0.019 ppb	0.153 ppb	0.012 ppb	0.761 ppb	90.943 %	0.002 ppb	0.006 ppb	95.508 %	0.113 ppb
Concentration per Run 2	0.237 ppb	0.331 ppb	0.013 ppb	0.812 ppb	91.300 %	0.003 ppb	-0.002 ppb	92.258 %	0.134 ppb
Concentration per Run 3	-0.006 ppb	0.306 ppb	0.004 ppb	0.713 ppb	93.734 %	0.004 ppb	0.000 ppb	94.896 %	0.134 ppb
Recovery Percentage 1	16.649 %	5.267 %	0.097 %	38.103 %		0.795 %	0.732 %		3.177 %
Concentration RSD	160.9 %	36.6 %	50.2 %	6.5 %	1.7 %	29.8 %	284.7 %	1.8 %	9.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.024 ppb	90.572 %	93.971 %	0.485 ppb	0.012 ppb	89.294 %
Concentration per Run 1	0.029 ppb	90.589 %	92.634 %	0.377 ppb	0.013 ppb	95.476 %
Concentration per Run 2	0.044 ppb	88.677 %	93.031 %	0.574 ppb	0.012 ppb	85.977 %
Concentration per Run 3	0.001 ppb	92.449 %	96.247 %	0.505 ppb	0.011 ppb	86.430 %
Recovery Percentage 1	4.886 %			48.527 %	1.200 %	
Concentration RSD	89.3 %	2.1 %	2.1 %	20.5 %	11.8 %	6.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	146	User name	ALPHALAB\Metals-Instrument	Comment	FB
Analysis label:	L2371038-05 6020SL	Rack	2		
Analysis started at:	12/5/2023 7:43:59 PM	Vial	50		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.866 %	100.127 %	0.004 ppb	235.167 ppb	11.090 ppb	1.733 ppb	0.815 ppb	63.846 ppb	102.743 %
Concentration per Run 1	108.919 %	106.464 %	0.005 ppb	205.332 ppb	10.275 ppb	1.172 ppb	-4.705 ppb	47.378 ppb	105.229 %
Concentration per Run 2	106.147 %	94.487 %	-0.003 ppb	252.569 ppb	10.448 ppb	2.448 ppb	1.229 ppb	74.037 ppb	101.618 %
Concentration per Run 3	102.532 %	99.430 %	0.008 ppb	247.600 ppb	12.549 ppb	1.578 ppb	5.920 ppb	70.123 ppb	101.381 %
Concentration RSD	3.0 %	6.0 %	154.2 %	11.0 %	11.4 %	37.6 %	653.6 %	22.5 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.014 ppb	0.607 ppb	0.151 ppb	6.827 ppb	-0.002 ppb	0.158 ppb	0.062 ppb	1.094 ppb	97.985 %
Concentration per Run 1	-0.015 ppb	0.660 ppb	0.185 ppb	7.338 ppb	0.002 ppb	0.122 ppb	0.034 ppb	1.023 ppb	96.127 %
Concentration per Run 2	-0.012 ppb	0.545 ppb	0.127 ppb	7.079 ppb	-0.004 ppb	0.157 ppb	0.050 ppb	1.044 ppb	96.716 %
Concentration per Run 3	-0.015 ppb	0.616 ppb	0.141 ppb	6.065 ppb	-0.004 ppb	0.196 ppb	0.103 ppb	1.213 ppb	101.111 %
Concentration RSD	13.4 %	9.6 %	20.1 %	9.9 %	147.7 %	23.2 %	58.1 %	9.5 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.282 ppb	-0.031 ppb	0.316 ppb	0.082 ppb	93.401 %	0.002 ppb	-0.001 ppb	98.659 %	0.057 ppb
Concentration per Run 1	0.379 ppb	-0.035 ppb	0.315 ppb	0.105 ppb	91.504 %	0.002 ppb	0.000 ppb	94.538 %	0.057 ppb
Concentration per Run 2	0.219 ppb	-0.036 ppb	0.335 ppb	0.051 ppb	95.172 %	0.000 ppb	-0.002 ppb	98.916 %	0.064 ppb
Concentration per Run 3	0.248 ppb	-0.023 ppb	0.296 ppb	0.091 ppb	93.528 %	0.002 ppb	-0.002 ppb	102.524 %	0.051 ppb
Concentration RSD	30.2 %	23.7 %	6.2 %	33.9 %	2.0 %	66.3 %	97.0 %	4.1 %	10.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.299 ppb	91.078 %	97.107 %	0.088 ppb	0.004 ppb	117.744 %
Concentration per Run 1	0.349 ppb	89.859 %	95.232 %	0.109 ppb	0.003 ppb	140.361 %
Concentration per Run 2	0.296 ppb	91.981 %	97.283 %	0.093 ppb	0.005 ppb	111.256 %
Concentration per Run 3	0.252 ppb	91.393 %	98.806 %	0.061 ppb	0.004 ppb	101.616 %
Concentration RSD	16.3 %	1.2 %	1.8 %	27.9 %	19.4 %	17.1 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	147	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370760-02 6020SL	Rack	2		
Analysis started at:	12/5/2023 7:48:40 PM	Vial	43		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.567 %	95.817 %	0.011 ppb	114,528.942 ppb	8,542.650 ppb	23.502 ppb	4,648.928 ppb	71,849.414 ppb	102.312 %
Concentration per Run 1	98.647 %	85.361 %	0.012 ppb	118,423.807 ppb	8,491.036 ppb	25.725 ppb	4,696.875 ppb	72,125.840 ppb	103.330 %
Concentration per Run 2	97.403 %	96.958 %	0.010 ppb	114,649.413 ppb	8,862.452 ppb	21.438 ppb	4,601.339 ppb	69,630.525 ppb	103.810 %
Concentration per Run 3	93.651 %	105.133 %	0.012 ppb	110,513.606 ppb	8,274.461 ppb	23.343 ppb	4,648.571 ppb	73,791.877 ppb	99.797 %
Concentration RSD	2.7 %	10.4 %	11.4 %	3.5 %	3.5 %	9.1 %	1.0 %	2.9 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.474 ppb	0.585 ppb	3.423 ppb	20.677 ppb	0.232 ppb	2.610 ppb	0.563 ppb	1.190 ppb	96.076 %
Concentration per Run 1	0.520 ppb	0.580 ppb	3.001 ppb	16.791 ppb	0.241 ppb	2.709 ppb	0.550 ppb	1.210 ppb	92.827 %
Concentration per Run 2	0.516 ppb	0.520 ppb	3.715 ppb	22.164 ppb	0.226 ppb	2.474 ppb	0.548 ppb	1.106 ppb	100.678 %
Concentration per Run 3	0.387 ppb	0.656 ppb	3.554 ppb	23.077 ppb	0.230 ppb	2.646 ppb	0.592 ppb	1.256 ppb	94.723 %
Concentration RSD	15.9 %	11.7 %	10.9 %	16.4 %	3.3 %	4.7 %	4.4 %	6.5 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.574 ppb	4.787 ppb	232.133 ppb	0.530 ppb	88.222 %	0.000 ppb	0.005 ppb	95.726 %	0.251 ppb
Concentration per Run 1	0.627 ppb	4.650 ppb	219.619 ppb	0.564 ppb	86.260 %	0.000 ppb	0.004 ppb	93.043 %	0.225 ppb
Concentration per Run 2	0.408 ppb	5.320 ppb	234.938 ppb	0.509 ppb	87.998 %	0.001 ppb	0.004 ppb	95.776 %	0.225 ppb
Concentration per Run 3	0.685 ppb	4.390 ppb	241.841 ppb	0.517 ppb	90.408 %	-0.001 ppb	0.006 ppb	98.359 %	0.303 ppb
Concentration RSD	25.5 %	10.0 %	4.9 %	5.6 %	2.4 %	48,548.0 %	20.6 %	2.8 %	17.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	194.187 ppb	91.765 %	94.267 %	0.025 ppb	0.033 ppb	90.879 %
Concentration per Run 1	187.285 ppb	89.713 %	91.334 %	0.009 ppb	0.029 ppb	94.524 %
Concentration per Run 2	200.104 ppb	93.070 %	93.755 %	0.029 ppb	0.031 ppb	91.408 %
Concentration per Run 3	195.172 ppb	92.512 %	97.713 %	0.036 ppb	0.038 ppb	86.704 %
Concentration RSD	3.3 %	2.0 %	3.4 %	55.5 %	14.8 %	4.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	148	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370760-03 6020SL	Rack	2		
Analysis started at:	12/5/2023 7:53:20 PM	Vial	44		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.051 %	98.796 %	0.006 ppb	102,254.213 ppb	16,026.895 ppb	42.950 ppb	5,385.353 ppb	94,940.606 ppb	102.526 %
Concentration per Run 1	100.325 %	101.521 %	0.010 ppb	99,732.701 ppb	15,908.164 ppb	40.651 ppb	5,389.520 ppb	95,675.774 ppb	106.106 %
Concentration per Run 2	96.456 %	90.684 %	0.004 ppb	105,646.059 ppb	16,353.929 ppb	44.234 ppb	5,386.848 ppb	93,327.983 ppb	102.932 %
Concentration per Run 3	91.373 %	104.183 %	0.002 ppb	101,383.878 ppb	15,818.594 ppb	43.966 ppb	5,379.691 ppb	95,818.060 ppb	98.540 %
Concentration RSD	4.7 %	7.2 %	75.4 %	3.0 %	1.8 %	4.6 %	0.1 %	1.5 %	3.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.639 ppb	0.176 ppb	1,003.100 ppb	44.395 ppb	0.745 ppb	2.443 ppb	0.747 ppb	1.226 ppb	94.121 %
Concentration per Run 1	0.542 ppb	0.154 ppb	970.960 ppb	43.570 ppb	0.725 ppb	2.336 ppb	0.802 ppb	1.250 ppb	94.056 %
Concentration per Run 2	0.699 ppb	0.215 ppb	1,015.848 ppb	48.143 ppb	0.763 ppb	2.560 ppb	0.743 ppb	1.255 ppb	91.841 %
Concentration per Run 3	0.676 ppb	0.159 ppb	1,022.491 ppb	41.472 ppb	0.747 ppb	2.432 ppb	0.696 ppb	1.172 ppb	96.468 %
Concentration RSD	13.3 %	19.4 %	2.8 %	7.7 %	2.5 %	4.6 %	7.1 %	3.8 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.672 ppb	5.259 ppb	163.849 ppb	1.573 ppb	85.796 %	-0.001 ppb	0.055 ppb	93.730 %	0.225 ppb
Concentration per Run 1	0.701 ppb	5.374 ppb	163.571 ppb	1.369 ppb	84.589 %	-0.001 ppb	0.034 ppb	92.060 %	0.222 ppb
Concentration per Run 2	0.672 ppb	5.679 ppb	159.797 ppb	1.613 ppb	84.142 %	0.000 ppb	0.051 ppb	91.121 %	0.258 ppb
Concentration per Run 3	0.645 ppb	4.723 ppb	168.181 ppb	1.737 ppb	88.658 %	0.000 ppb	0.079 ppb	98.009 %	0.194 ppb
Concentration RSD	4.1 %	9.3 %	2.6 %	11.9 %	2.9 %	114.3 %	42.0 %	4.0 %	14.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	117.802 ppb	89.967 %	92.988 %	0.023 ppb	0.052 ppb	86.535 %
Concentration per Run 1	121.265 ppb	90.135 %	93.697 %	0.008 ppb	0.048 ppb	92.631 %
Concentration per Run 2	119.389 ppb	87.349 %	87.292 %	0.030 ppb	0.055 ppb	81.858 %
Concentration per Run 3	112.754 ppb	92.417 %	97.975 %	0.031 ppb	0.053 ppb	85.117 %
Concentration RSD	3.8 %	2.8 %	5.8 %	55.5 %	7.7 %	6.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	149	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370760-04 6020SL	Rack	2		
Analysis started at:	12/5/2023 7:58:00 PM	Vial	45		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.744 %	99.113 %	0.005 ppb	102,595.009 ppb	16,890.130 ppb	39.211 ppb	4,861.826 ppb	95,435.429 ppb	103.255 %
Concentration per Run 1	100.567 %	92.776 %	0.006 ppb	106,586.393 ppb	16,631.197 ppb	38.438 ppb	4,842.324 ppb	96,762.674 ppb	104.788 %
Concentration per Run 2	97.264 %	99.049 %	0.008 ppb	103,621.001 ppb	18,328.980 ppb	40.447 ppb	4,916.808 ppb	95,366.207 ppb	103.381 %
Concentration per Run 3	95.401 %	105.513 %	0.002 ppb	97,577.633 ppb	15,710.213 ppb	38.748 ppb	4,826.346 ppb	94,177.406 ppb	101.596 %
Concentration RSD	2.7 %	6.4 %	60.0 %	4.5 %	7.9 %	2.8 %	1.0 %	1.4 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.569 ppb	0.168 ppb	925.723 ppb	50.406 ppb	0.254 ppb	2.697 ppb	0.850 ppb	1.355 ppb	95.918 %
Concentration per Run 1	0.614 ppb	0.199 ppb	929.862 ppb	53.355 ppb	0.265 ppb	2.896 ppb	0.877 ppb	1.455 ppb	89.932 %
Concentration per Run 2	0.610 ppb	0.165 ppb	911.968 ppb	54.115 ppb	0.254 ppb	2.616 ppb	0.781 ppb	1.340 ppb	97.198 %
Concentration per Run 3	0.485 ppb	0.141 ppb	935.339 ppb	43.747 ppb	0.243 ppb	2.577 ppb	0.893 ppb	1.270 ppb	100.625 %
Concentration RSD	12.9 %	17.3 %	1.3 %	11.5 %	4.3 %	6.5 %	7.1 %	6.9 %	5.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.582 ppb	5.830 ppb	156.152 ppb	1.135 ppb	86.579 %	0.000 ppb	0.058 ppb	92.859 %	0.162 ppb
Concentration per Run 1	0.708 ppb	5.913 ppb	159.903 ppb	1.188 ppb	82.308 %	0.000 ppb	0.087 ppb	85.228 %	0.184 ppb
Concentration per Run 2	0.608 ppb	5.208 ppb	155.501 ppb	1.167 ppb	85.905 %	0.000 ppb	0.037 ppb	95.943 %	0.152 ppb
Concentration per Run 3	0.430 ppb	6.368 ppb	153.053 ppb	1.048 ppb	91.525 %	0.001 ppb	0.049 ppb	97.407 %	0.149 ppb
Concentration RSD	24.3 %	10.0 %	2.2 %	6.6 %	5.4 %	140.2 %	45.6 %	7.2 %	12.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	104.246 ppb	91.269 %	95.844 %	0.017 ppb	0.141 ppb	84.385 %
Concentration per Run 1	109.903 ppb	85.745 %	87.597 %	0.005 ppb	0.138 ppb	83.863 %
Concentration per Run 2	101.974 ppb	92.601 %	98.882 %	0.023 ppb	0.139 ppb	84.455 %
Concentration per Run 3	100.861 ppb	95.460 %	101.052 %	0.023 ppb	0.147 ppb	84.836 %
Concentration RSD	4.7 %	5.5 %	7.5 %	59.2 %	3.4 %	0.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	150	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371038-01 6020SL	Rack	2		
Analysis started at:	12/5/2023 8:02:40 PM	Vial	46		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.608 %	101.014 %	0.015 ppb	39,118.269 ppb	9,167.327 ppb	205.960 ppb	21,969.690 ppb	74,499.768 ppb	100.716 %
Concentration per Run 1	95.823 %	97.338 %	0.009 ppb	38,276.574 ppb	9,003.968 ppb	200.321 ppb	21,382.736 ppb	72,722.432 ppb	101.062 %
Concentration per Run 2	94.089 %	103.992 %	0.021 ppb	40,098.840 ppb	9,555.877 ppb	207.235 ppb	22,400.805 ppb	75,959.426 ppb	101.934 %
Concentration per Run 3	90.910 %	101.711 %	0.016 ppb	38,979.393 ppb	8,942.136 ppb	210.322 ppb	22,125.529 ppb	74,817.445 ppb	99.152 %
Concentration RSD	2.7 %	3.3 %	39.6 %	2.3 %	3.7 %	2.5 %	2.4 %	2.2 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	7.208 ppb	1.727 ppb	90.070 ppb	302.150 ppb	0.663 ppb	4.360 ppb	8.688 ppb	15.418 ppb	101.049 %
Concentration per Run 1	7.537 ppb	1.634 ppb	87.534 ppb	289.928 ppb	0.689 ppb	4.474 ppb	9.033 ppb	15.456 ppb	98.411 %
Concentration per Run 2	7.001 ppb	1.936 ppb	91.655 ppb	329.023 ppb	0.682 ppb	4.566 ppb	8.703 ppb	15.584 ppb	98.932 %
Concentration per Run 3	7.086 ppb	1.611 ppb	91.022 ppb	287.499 ppb	0.618 ppb	4.040 ppb	8.328 ppb	15.213 ppb	105.803 %
Concentration RSD	4.0 %	10.5 %	2.5 %	7.7 %	5.9 %	6.4 %	4.1 %	1.2 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.952 ppb	0.354 ppb	452.617 ppb	5.285 ppb	91.509 %	0.005 ppb	0.228 ppb	94.885 %	0.972 ppb
Concentration per Run 1	3.910 ppb	0.276 ppb	427.156 ppb	4.940 ppb	89.451 %	0.010 ppb	0.254 ppb	88.623 %	0.999 ppb
Concentration per Run 2	4.248 ppb	0.584 ppb	469.802 ppb	5.511 ppb	93.097 %	0.003 ppb	0.213 ppb	97.803 %	0.960 ppb
Concentration per Run 3	3.699 ppb	0.202 ppb	460.894 ppb	5.404 ppb	91.978 %	0.002 ppb	0.217 ppb	98.228 %	0.956 ppb
Concentration RSD	7.0 %	57.3 %	5.0 %	5.7 %	2.0 %	81.2 %	9.9 %	5.7 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	40.659 ppb	93.450 %	96.725 %	0.041 ppb	2.851 ppb	89.366 %
Concentration per Run 1	39.826 ppb	89.068 %	90.854 %	0.025 ppb	2.788 ppb	90.011 %
Concentration per Run 2	41.104 ppb	95.348 %	99.345 %	0.045 ppb	2.885 ppb	89.508 %
Concentration per Run 3	41.048 ppb	95.935 %	99.975 %	0.052 ppb	2.881 ppb	88.579 %
Concentration RSD	1.8 %	4.1 %	5.3 %	33.7 %	1.9 %	0.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	151	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371038-02 6020SL	Rack	2		
Analysis started at:	12/5/2023 8:07:21 PM	Vial	47		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.123 %	95.247 %	0.003 ppb	91,633.717 ppb	9,755.680 ppb	5.433 ppb	6,018.828 ppb	32,907.655 ppb	97.580 %
Concentration per Run 1	96.795 %	96.768 %	0.001 ppb	88,417.321 ppb	9,151.419 ppb	4.649 ppb	5,645.396 ppb	31,443.185 ppb	96.750 %
Concentration per Run 2	95.039 %	89.544 %	0.001 ppb	96,866.665 ppb	10,500.960 ppb	6.881 ppb	6,251.732 ppb	34,063.014 ppb	98.587 %
Concentration per Run 3	93.535 %	99.430 %	0.008 ppb	89,617.165 ppb	9,614.661 ppb	4.769 ppb	6,159.355 ppb	33,216.767 ppb	97.403 %
Concentration RSD	1.7 %	5.4 %	120.3 %	5.0 %	7.0 %	23.1 %	5.4 %	4.1 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.417 ppb	3.404 ppb	7.518 ppb	84.819 ppb	0.572 ppb	1.863 ppb	0.745 ppb	4.749 ppb	95.964 %
Concentration per Run 1	1.457 ppb	3.305 ppb	7.414 ppb	78.236 ppb	0.534 ppb	1.939 ppb	0.748 ppb	4.802 ppb	92.187 %
Concentration per Run 2	1.484 ppb	3.402 ppb	7.451 ppb	87.050 ppb	0.606 ppb	1.855 ppb	0.720 ppb	4.747 ppb	99.854 %
Concentration per Run 3	1.312 ppb	3.504 ppb	7.689 ppb	89.170 ppb	0.577 ppb	1.796 ppb	0.766 ppb	4.698 ppb	95.852 %
Concentration RSD	6.5 %	2.9 %	2.0 %	6.8 %	6.3 %	3.9 %	3.1 %	1.1 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.392 ppb	1.390 ppb	165.390 ppb	0.260 ppb	88.130 %	0.000 ppb	0.016 ppb	94.899 %	0.121 ppb
Concentration per Run 1	0.373 ppb	1.185 ppb	156.555 ppb	0.257 ppb	89.094 %	-0.001 ppb	0.020 ppb	96.896 %	0.110 ppb
Concentration per Run 2	0.411 ppb	1.832 ppb	166.591 ppb	0.270 ppb	88.551 %	0.000 ppb	0.013 ppb	91.732 %	0.111 ppb
Concentration per Run 3	0.391 ppb	1.153 ppb	173.024 ppb	0.254 ppb	86.747 %	0.000 ppb	0.016 ppb	96.070 %	0.143 ppb
Concentration RSD	4.9 %	27.5 %	5.0 %	3.2 %	1.4 %	176.2 %	22.7 %	2.9 %	15.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	28.238 ppb	90.345 %	95.203 %	0.018 ppb	0.067 ppb	88.287 %
Concentration per Run 1	26.751 ppb	89.994 %	94.816 %	0.010 ppb	0.063 ppb	94.462 %
Concentration per Run 2	29.919 ppb	89.961 %	95.413 %	0.020 ppb	0.067 ppb	88.189 %
Concentration per Run 3	28.044 ppb	91.082 %	95.378 %	0.024 ppb	0.072 ppb	82.211 %
Concentration RSD	5.6 %	0.7 %	0.4 %	39.3 %	6.4 %	6.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	152	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371038-03 6020SL	Rack	2		
Analysis started at:	12/5/2023 8:12:01 PM	Vial	48		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.880 %	96.261 %	0.011 ppb	61,482.816 ppb	7,920.940 ppb	3.710 ppb	3,561.319 ppb	13,698.029 ppb	97.357 %
Concentration per Run 1	95.889 %	93.726 %	0.015 ppb	61,511.970 ppb	7,996.546 ppb	4.102 ppb	3,504.304 ppb	13,471.280 ppb	100.490 %
Concentration per Run 2	93.173 %	96.198 %	0.008 ppb	60,359.085 ppb	7,720.494 ppb	3.550 ppb	3,586.409 ppb	13,472.324 ppb	96.576 %
Concentration per Run 3	89.578 %	98.859 %	0.011 ppb	62,577.393 ppb	8,045.782 ppb	3.479 ppb	3,593.244 ppb	14,150.483 ppb	95.004 %
Concentration RSD	3.4 %	2.7 %	30.3 %	1.8 %	2.2 %	9.2 %	1.4 %	2.9 %	2.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.877 ppb	1.824 ppb	3.583 ppb	23.695 ppb	0.362 ppb	0.806 ppb	0.321 ppb	4.301 ppb	95.048 %
Concentration per Run 1	0.935 ppb	1.905 ppb	3.664 ppb	26.818 ppb	0.397 ppb	0.871 ppb	0.345 ppb	4.401 ppb	88.083 %
Concentration per Run 2	0.943 ppb	1.674 ppb	3.205 ppb	20.888 ppb	0.283 ppb	0.711 ppb	0.300 ppb	4.269 ppb	100.969 %
Concentration per Run 3	0.753 ppb	1.893 ppb	3.879 ppb	23.378 ppb	0.406 ppb	0.835 ppb	0.318 ppb	4.233 ppb	96.092 %
Concentration RSD	12.2 %	7.1 %	9.6 %	12.6 %	19.0 %	10.4 %	7.1 %	2.1 %	6.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.389 ppb	1.221 ppb	86.639 ppb	0.146 ppb	86.847 %	0.001 ppb	0.022 ppb	94.221 %	0.081 ppb
Concentration per Run 1	0.598 ppb	1.186 ppb	85.838 ppb	0.162 ppb	84.587 %	0.001 ppb	0.020 ppb	87.402 %	0.080 ppb
Concentration per Run 2	0.151 ppb	1.313 ppb	85.119 ppb	0.110 ppb	88.889 %	0.001 ppb	0.016 ppb	97.584 %	0.099 ppb
Concentration per Run 3	0.418 ppb	1.164 ppb	88.959 ppb	0.167 ppb	87.065 %	0.000 ppb	0.030 ppb	97.678 %	0.065 ppb
Concentration RSD	57.8 %	6.6 %	2.4 %	21.6 %	2.5 %	47.7 %	33.1 %	6.3 %	20.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	19.684 ppb	89.658 %	91.632 %	0.014 ppb	0.034 ppb	85.488 %
Concentration per Run 1	20.028 ppb	86.231 %	86.696 %	0.006 ppb	0.034 ppb	84.603 %
Concentration per Run 2	19.495 ppb	91.187 %	93.353 %	0.016 ppb	0.035 ppb	86.570 %
Concentration per Run 3	19.529 ppb	91.556 %	94.847 %	0.020 ppb	0.033 ppb	85.292 %
Concentration RSD	1.5 %	3.3 %	4.7 %	50.6 %	2.0 %	1.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	153	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371038-04 6020SL	Rack	2		
Analysis started at:	12/5/2023 8:16:42 PM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.479 %	95.120 %	0.010 ppb	113,467.545 ppb	8,865.651 ppb	3.027 ppb	5,048.366 ppb	34,262.671 ppb	97.313 %
Concentration per Run 1	90.197 %	93.156 %	0.014 ppb	120,479.475 ppb	9,157.220 ppb	3.312 ppb	5,297.711 ppb	36,863.678 ppb	97.941 %
Concentration per Run 2	87.902 %	97.338 %	0.007 ppb	111,647.425 ppb	8,668.236 ppb	2.743 ppb	5,068.678 ppb	33,908.193 ppb	95.916 %
Concentration per Run 3	87.338 %	94.867 %	0.008 ppb	108,275.735 ppb	8,771.498 ppb	3.027 ppb	4,778.708 ppb	32,016.141 ppb	98.080 %
Concentration RSD	1.7 %	2.2 %	37.6 %	5.6 %	2.9 %	9.4 %	5.2 %	7.1 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.300 ppb	0.429 ppb	32.169 ppb	4,919.986 ppb	0.120 ppb	1.114 ppb	0.176 ppb	6.823 ppb	95.431 %
Concentration per Run 1	0.385 ppb	0.407 ppb	33.669 ppb	5,179.456 ppb	0.131 ppb	1.163 ppb	0.179 ppb	7.547 ppb	89.823 %
Concentration per Run 2	0.279 ppb	0.456 ppb	31.058 ppb	4,803.837 ppb	0.116 ppb	1.041 ppb	0.175 ppb	6.615 ppb	99.678 %
Concentration per Run 3	0.235 ppb	0.424 ppb	31.779 ppb	4,776.667 ppb	0.112 ppb	1.139 ppb	0.174 ppb	6.306 ppb	96.792 %
Concentration RSD	25.6 %	5.8 %	4.2 %	4.6 %	8.4 %	5.8 %	1.3 %	9.5 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.648 ppb	0.278 ppb	178.312 ppb	0.298 ppb	85.786 %	0.000 ppb	0.007 ppb	89.844 %	0.167 ppb
Concentration per Run 1	1.811 ppb	0.452 ppb	188.333 ppb	0.255 ppb	84.833 %	0.001 ppb	0.009 ppb	86.818 %	0.197 ppb
Concentration per Run 2	1.613 ppb	0.342 ppb	177.014 ppb	0.308 ppb	86.463 %	0.000 ppb	0.004 ppb	94.883 %	0.150 ppb
Concentration per Run 3	1.519 ppb	0.039 ppb	169.590 ppb	0.332 ppb	86.061 %	0.000 ppb	0.009 ppb	87.831 %	0.154 ppb
Concentration RSD	9.1 %	77.0 %	5.3 %	13.2 %	1.0 %	1,528.5 %	36.8 %	4.9 %	15.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	21.867 ppb	88.370 %	91.825 %	0.008 ppb	0.062 ppb	84.027 %
Concentration per Run 1	23.855 ppb	85.968 %	90.807 %	-0.001 ppb	0.061 ppb	85.211 %
Concentration per Run 2	20.046 ppb	90.754 %	93.586 %	0.013 ppb	0.063 ppb	84.447 %
Concentration per Run 3	21.701 ppb	88.388 %	91.081 %	0.013 ppb	0.064 ppb	82.423 %
Concentration RSD	8.7 %	2.7 %	1.7 %	93.1 %	2.5 %	1.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	154	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371131-02 6020SL	Rack	2		
Analysis started at:	12/5/2023 8:21:23 PM	Vial	51		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.067 %	96.451 %	0.005 ppb	33,418.365 ppb	8,162.970 ppb	2.709 ppb	2,450.916 ppb	50,178.577 ppb	103.539 %
Concentration per Run 1	93.798 %	94.296 %	-0.002 ppb	34,453.310 ppb	8,346.234 ppb	2.802 ppb	2,440.021 ppb	50,140.194 ppb	105.368 %
Concentration per Run 2	88.585 %	94.106 %	0.006 ppb	33,371.674 ppb	7,964.434 ppb	2.442 ppb	2,436.293 ppb	50,338.590 ppb	102.275 %
Concentration per Run 3	87.818 %	100.951 %	0.010 ppb	32,430.112 ppb	8,178.242 ppb	2.883 ppb	2,476.434 ppb	50,056.949 ppb	102.972 %
Concentration RSD	3.6 %	4.0 %	124.1 %	3.0 %	2.3 %	8.7 %	0.9 %	0.3 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.004 ppb	0.068 ppb	1,162.540 ppb	18,848.388 ppb	3.007 ppb	1.450 ppb	0.119 ppb	2.352 ppb	98.874 %
Concentration per Run 1	-0.005 ppb	0.087 ppb	1,176.718 ppb	18,464.933 ppb	3.026 ppb	1.505 ppb	0.132 ppb	2.340 ppb	98.736 %
Concentration per Run 2	-0.028 ppb	0.081 ppb	1,158.265 ppb	19,038.357 ppb	3.002 ppb	1.469 ppb	0.133 ppb	2.361 ppb	97.996 %
Concentration per Run 3	0.044 ppb	0.035 ppb	1,152.637 ppb	19,041.873 ppb	2.994 ppb	1.375 ppb	0.091 ppb	2.356 ppb	99.892 %
Concentration RSD	986.5 %	42.0 %	1.1 %	1.8 %	0.6 %	4.6 %	20.4 %	0.5 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.256 ppb	0.009 ppb	147.650 ppb	0.425 ppb	89.333 %	0.008 ppb	0.005 ppb	94.466 %	0.154 ppb
Concentration per Run 1	57.229 ppb	0.094 ppb	147.685 ppb	0.440 ppb	89.468 %	0.007 ppb	0.004 ppb	93.721 %	0.133 ppb
Concentration per Run 2	58.362 ppb	-0.151 ppb	145.154 ppb	0.390 ppb	86.846 %	0.010 ppb	0.007 ppb	91.126 %	0.173 ppb
Concentration per Run 3	59.176 ppb	0.085 ppb	150.112 ppb	0.444 ppb	91.686 %	0.007 ppb	0.004 ppb	98.551 %	0.157 ppb
Concentration RSD	1.7 %	1,518.1 %	1.7 %	7.1 %	2.7 %	20.2 %	28.3 %	4.0 %	13.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	16.391 ppb	91.740 %	93.698 %	0.004 ppb	1.560 ppb	89.169 %
Concentration per Run 1	15.493 ppb	92.129 %	94.061 %	-0.005 ppb	1.502 ppb	92.607 %
Concentration per Run 2	16.410 ppb	89.820 %	90.731 %	0.007 ppb	1.584 ppb	86.250 %
Concentration per Run 3	17.271 ppb	93.272 %	96.300 %	0.009 ppb	1.595 ppb	88.650 %
Concentration RSD	5.4 %	1.9 %	3.0 %	206.4 %	3.3 %	3.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	155	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	xl2370562-03d10 6020TL	Rack	2		
Analysis started at:	12/5/2023 8:26:04 PM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	273.178 %	297.220 %	-0.018 ppb	-66.681 ppb	-1.027 ppb	-1.107 ppb	-57.112 ppb	-14.025 ppb	248.485 %
Concentration per Run 1	276.125 %	279.475 %	-0.019 ppb	-62.672 ppb	-1.005 ppb	-1.433 ppb	-56.136 ppb	-16.050 ppb	242.545 %
Concentration per Run 2	283.701 %	289.932 %	-0.019 ppb	-66.507 ppb	-1.111 ppb	-0.665 ppb	-58.038 ppb	-13.694 ppb	256.726 %
Concentration per Run 3	259.709 %	322.254 %	-0.017 ppb	-70.865 ppb	-0.965 ppb	-1.222 ppb	-57.162 ppb	-12.329 ppb	246.183 %
Concentration RSD	4.5 %	7.5 %	7.4 %	6.1 %	7.3 %	35.8 %	1.7 %	13.4 %	3.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.087 ppb	-0.113 ppb	-0.048 ppb	5.701 ppb	-0.010 ppb	-0.059 ppb	-0.042 ppb	-0.260 ppb	293.212 %
Concentration per Run 1	-0.089 ppb	-0.110 ppb	-0.080 ppb	4.905 ppb	-0.009 ppb	-0.058 ppb	-0.046 ppb	-0.256 ppb	280.322 %
Concentration per Run 2	-0.084 ppb	-0.112 ppb	-0.065 ppb	6.292 ppb	-0.010 ppb	-0.060 ppb	-0.047 ppb	-0.266 ppb	275.355 %
Concentration per Run 3	-0.087 ppb	-0.118 ppb	0.002 ppb	5.907 ppb	-0.009 ppb	-0.059 ppb	-0.035 ppb	-0.258 ppb	323.958 %
Concentration RSD	3.1 %	3.5 %	91.8 %	12.6 %	6.6 %	1.6 %	15.9 %	1.8 %	9.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	-0.929 ppb	-0.081 ppb	-0.017 ppb	-0.021 ppb	287.458 %	-0.001 ppb	-0.002 ppb	293.989 %	-0.002 ppb
Concentration per Run 1	-0.886 ppb	-0.064 ppb	-0.014 ppb	-0.033 ppb	267.511 %	-0.001 ppb	-0.001 ppb	274.362 %	-0.004 ppb
Concentration per Run 2	-0.951 ppb	-0.157 ppb	-0.014 ppb	-0.020 ppb	287.015 %	-0.001 ppb	-0.002 ppb	291.736 %	0.001 ppb
Concentration per Run 3	-0.949 ppb	-0.022 ppb	-0.024 ppb	-0.010 ppb	307.849 %	-0.001 ppb	-0.002 ppb	315.870 %	-0.002 ppb
Concentration RSD	4.0 %	85.6 %	32.6 %	55.3 %	7.0 %	26.7 %	24.4 %	7.1 %	149.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.013 ppb	297.119 %	287.835 %	-0.013 ppb	-0.001 ppb	87.519 %
Concentration per Run 1	-0.013 ppb	266.287 %	268.999 %	-0.014 ppb	-0.001 ppb	62.722 %
Concentration per Run 2	-0.013 ppb	294.193 %	292.655 %	-0.012 ppb	0.000 ppb	90.792 %
Concentration per Run 3	-0.013 ppb	330.878 %	301.850 %	-0.013 ppb	-0.001 ppb	109.043 %
Concentration RSD		10.9 %	5.9 %	7.1 %	90.4 %	26.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	156	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 8:30:45 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.341 %	95.120 %	62.096 ppb	5,914.720 ppb	6,295.422 ppb	68.765 ppb	6,235.804 ppb	5,861.151 ppb	96.972 %
Concentration per Run 1	85.453 %	92.966 %	62.112 ppb	5,822.264 ppb	6,429.268 ppb	72.987 ppb	6,554.367 ppb	6,243.171 ppb	95.889 %
Concentration per Run 2	84.053 %	92.015 %	62.385 ppb	5,565.618 ppb	6,294.973 ppb	67.652 ppb	5,969.119 ppb	5,605.656 ppb	97.553 %
Concentration per Run 3	83.516 %	100.380 %	61.790 ppb	6,356.280 ppb	6,162.025 ppb	65.656 ppb	6,183.925 ppb	5,734.627 ppb	97.474 %
Recovery Percentage 1			103.493 %	98.579 %	104.924 %	114.608 %	103.930 %	97.686 %	
Concentration RSD	1.2 %	4.8 %	0.5 %	6.8 %	2.1 %	5.5 %	4.7 %	5.8 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.079 ppb	58.693 ppb	59.559 ppb	6,242.314 ppb	62.889 ppb	62.879 ppb	62.172 ppb	59.838 ppb	93.918 %
Concentration per Run 1	60.847 ppb	61.814 ppb	64.797 ppb	6,586.189 ppb	66.759 ppb	66.429 ppb	65.987 ppb	62.719 ppb	90.193 %
Concentration per Run 2	58.387 ppb	58.591 ppb	57.973 ppb	6,179.218 ppb	63.836 ppb	62.648 ppb	62.060 ppb	59.280 ppb	90.881 %
Concentration per Run 3	55.002 ppb	55.675 ppb	55.907 ppb	5,961.536 ppb	58.073 ppb	59.560 ppb	58.470 ppb	57.515 ppb	100.682 %
Recovery Percentage 1	96.798 %	97.822 %	99.265 %	104.039 %	104.815 %	104.799 %	103.621 %	99.730 %	
Concentration RSD	5.1 %	5.2 %	7.8 %	5.1 %	7.0 %	5.5 %	6.0 %	4.4 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.882 ppb	58.530 ppb	57.080 ppb	59.888 ppb	88.415 %	59.813 ppb	58.827 ppb	92.363 %	60.259 ppb
Concentration per Run 1	63.474 ppb	58.638 ppb	59.623 ppb	58.978 ppb	87.038 %	60.669 ppb	59.897 ppb	93.732 %	61.181 ppb
Concentration per Run 2	59.945 ppb	58.611 ppb	55.069 ppb	59.675 ppb	87.151 %	59.030 ppb	57.587 ppb	88.022 %	60.083 ppb
Concentration per Run 3	59.226 ppb	58.341 ppb	56.548 ppb	61.010 ppb	91.056 %	59.741 ppb	58.997 ppb	95.336 %	59.512 ppb
Recovery Percentage 1	101.469 %	97.551 %	95.133 %	99.813 %		99.689 %	98.045 %		100.431 %
Concentration RSD	3.7 %	0.3 %	4.1 %	1.7 %	2.6 %	1.4 %	2.0 %	4.2 %	1.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.422 ppb	88.426 %	91.502 %	53.904 ppb	57.619 ppb	99.953 %
Concentration per Run 1	61.730 ppb	87.972 %	91.646 %	44.168 ppb	58.675 ppb	118.979 %
Concentration per Run 2	57.488 ppb	85.734 %	87.131 %	57.777 ppb	58.219 ppb	89.631 %
Concentration per Run 3	59.049 ppb	91.573 %	95.729 %	59.766 ppb	55.965 ppb	91.250 %
Recovery Percentage 1	99.037 %			89.839 %	96.032 %	
Concentration RSD	3.6 %	3.3 %	4.7 %	15.8 %	2.5 %	16.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	157	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 8:35:28 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.325 %	96.831 %	0.012 ppb	46.401 ppb	0.062 ppb	0.037 ppb	7.435 ppb	-0.038 ppb	88.887 %
Concentration per Run 1	86.862 %	97.528 %	0.013 ppb	49.670 ppb	0.392 ppb	0.276 ppb	12.913 ppb	-5.141 ppb	90.949 %
Concentration per Run 2	83.647 %	95.247 %	0.014 ppb	42.946 ppb	0.137 ppb	-0.291 ppb	-2.556 ppb	3.509 ppb	88.256 %
Concentration per Run 3	82.467 %	97.719 %	0.009 ppb	46.587 ppb	-0.343 ppb	0.127 ppb	11.948 ppb	1.518 ppb	87.455 %
Recovery Percentage 1			2.411 %	46.401 %	0.089 %	0.372 %	7.435 %	-0.038 %	
Concentration RSD	2.7 %	1.4 %	24.6 %	7.3 %	602.4 %	789.2 %	116.6 %	12,008.6 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.079 ppb	0.036 ppb	0.012 ppb	11.573 ppb	-0.003 ppb	0.035 ppb	-0.006 ppb	0.164 ppb	92.714 %
Concentration per Run 1	-0.066 ppb	0.027 ppb	0.008 ppb	11.480 ppb	-0.007 ppb	0.016 ppb	0.005 ppb	0.198 ppb	92.868 %
Concentration per Run 2	-0.081 ppb	0.040 ppb	-0.003 ppb	11.296 ppb	0.003 ppb	0.039 ppb	-0.005 ppb	0.144 ppb	90.485 %
Concentration per Run 3	-0.089 ppb	0.042 ppb	0.033 ppb	11.941 ppb	-0.005 ppb	0.051 ppb	-0.018 ppb	0.150 ppb	94.788 %
Recovery Percentage 1	-1.574 %	3.625 %	1.246 %	23.145 %	-0.650 %	1.762 %	-0.618 %	3.279 %	
Concentration RSD	15.2 %	22.9 %	147.7 %	2.9 %	156.5 %	50.5 %	184.5 %	18.3 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.318 ppb	0.262 ppb	0.009 ppb	0.686 ppb	89.908 %	0.002 ppb	0.001 ppb	91.644 %	0.052 ppb
Concentration per Run 1	0.397 ppb	0.187 ppb	-0.003 ppb	0.749 ppb	89.101 %	0.000 ppb	-0.002 ppb	93.532 %	0.061 ppb
Concentration per Run 2	0.267 ppb	0.333 ppb	0.019 ppb	0.644 ppb	87.568 %	0.004 ppb	0.002 ppb	86.203 %	0.040 ppb
Concentration per Run 3	0.289 ppb	0.265 ppb	0.011 ppb	0.666 ppb	93.056 %	0.002 ppb	0.002 ppb	95.197 %	0.056 ppb
Recovery Percentage 1	63.569 %	5.239 %	0.089 %	34.317 %		0.541 %	0.453 %		1.311 %
Concentration RSD	21.9 %	27.9 %	124.2 %	8.1 %	3.1 %	73.7 %	265.8 %	5.2 %	20.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.021 ppb	87.596 %	88.844 %	0.440 ppb	0.009 ppb	87.539 %
Concentration per Run 1	0.029 ppb	89.016 %	89.304 %	0.362 ppb	0.010 ppb	91.361 %
Concentration per Run 2	0.017 ppb	85.227 %	85.363 %	0.513 ppb	0.010 ppb	86.312 %
Concentration per Run 3	0.015 ppb	88.546 %	91.865 %	0.445 ppb	0.007 ppb	84.943 %
Recovery Percentage 1	4.102 %			44.001 %	0.912 %	
Concentration RSD	37.6 %	2.4 %	3.7 %	17.2 %	16.7 %	3.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	158	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 8:54:26 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.814 %	102.662 %	60.631 ppb	6,408.428 ppb	6,231.709 ppb	61.869 ppb	6,032.010 ppb	5,715.997 ppb	103.965 %
Concentration per Run 1	95.166 %	97.338 %	60.130 ppb	6,457.094 ppb	6,240.085 ppb	61.098 ppb	5,774.728 ppb	5,643.436 ppb	104.353 %
Concentration per Run 2	91.568 %	102.471 %	61.066 ppb	6,544.471 ppb	6,270.061 ppb	60.367 ppb	6,185.411 ppb	5,746.260 ppb	104.108 %
Concentration per Run 3	91.708 %	108.175 %	60.697 ppb	6,223.721 ppb	6,184.982 ppb	64.141 ppb	6,135.891 ppb	5,758.294 ppb	103.433 %
Recovery Percentage 1			101.051 %	106.807 %	103.862 %	103.114 %	100.534 %	95.267 %	
Concentration RSD	2.2 %	5.3 %	0.8 %	2.6 %	0.7 %	3.2 %	3.7 %	1.1 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.137 ppb	56.702 ppb	59.550 ppb	6,116.478 ppb	61.250 ppb	61.436 ppb	59.920 ppb	57.726 ppb	101.926 %
Concentration per Run 1	56.176 ppb	55.266 ppb	55.931 ppb	5,962.303 ppb	61.176 ppb	61.373 ppb	59.280 ppb	57.289 ppb	102.678 %
Concentration per Run 2	59.149 ppb	57.631 ppb	61.190 ppb	6,234.162 ppb	61.470 ppb	63.703 ppb	61.668 ppb	59.576 ppb	100.850 %
Concentration per Run 3	59.087 ppb	57.211 ppb	61.528 ppb	6,152.970 ppb	61.104 ppb	59.231 ppb	58.812 ppb	56.314 ppb	102.251 %
Recovery Percentage 1	96.895 %	94.504 %	99.250 %	101.941 %	102.083 %	102.393 %	99.867 %	96.210 %	
Concentration RSD	2.9 %	2.2 %	5.3 %	2.3 %	0.3 %	3.6 %	2.6 %	2.9 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.009 ppb	54.916 ppb	55.869 ppb	59.242 ppb	94.690 %	59.549 ppb	58.262 ppb	100.560 %	58.313 ppb
Concentration per Run 1	55.616 ppb	50.426 ppb	53.387 ppb	56.485 ppb	93.684 %	59.955 ppb	58.399 ppb	96.883 %	57.288 ppb
Concentration per Run 2	58.543 ppb	56.478 ppb	57.187 ppb	60.216 ppb	94.976 %	59.415 ppb	57.457 ppb	101.867 %	58.168 ppb
Concentration per Run 3	59.867 ppb	57.844 ppb	57.034 ppb	61.026 ppb	95.409 %	59.277 ppb	58.930 ppb	102.931 %	59.484 ppb
Recovery Percentage 1	96.682 %	91.527 %	93.115 %	98.737 %		99.249 %	97.103 %		97.189 %
Concentration RSD	3.7 %	7.2 %	3.9 %	4.1 %	0.9 %	0.6 %	1.3 %	3.2 %	1.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	54.454 ppb	94.401 %	95.783 %	57.921 ppb	56.557 ppb	109.132 %
Concentration per Run 1	54.867 ppb	93.880 %	92.636 %	55.349 ppb	56.038 ppb	131.701 %
Concentration per Run 2	55.338 ppb	94.694 %	96.965 %	59.195 ppb	56.742 ppb	101.856 %
Concentration per Run 3	53.159 ppb	94.630 %	97.746 %	59.218 ppb	56.892 ppb	93.838 %
Recovery Percentage 1	90.757 %			96.534 %	94.262 %	
Concentration RSD	2.1 %	0.5 %	2.9 %	3.8 %	0.8 %	18.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	159	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 8:59:09 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.412 %	95.881 %	0.011 ppb	32.718 ppb	0.353 ppb	-0.082 ppb	4.142 ppb	-2.572 ppb	90.128 %
Concentration per Run 1	91.817 %	98.289 %	0.009 ppb	29.707 ppb	0.102 ppb	0.006 ppb	-0.807 ppb	-1.319 ppb	92.887 %
Concentration per Run 2	88.272 %	93.916 %	0.013 ppb	34.401 ppb	-0.034 ppb	-0.422 ppb	1.676 ppb	-3.341 ppb	89.613 %
Concentration per Run 3	85.148 %	95.437 %	0.012 ppb	34.048 ppb	0.991 ppb	0.170 ppb	11.556 ppb	-3.057 ppb	87.884 %
Recovery Percentage 1			2.217 %	32.718 %	0.505 %	-0.819 %	4.142 %	-2.572 %	
Concentration RSD	3.8 %	2.3 %	17.9 %	8.0 %	157.6 %	373.1 %	157.9 %	42.6 %	2.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.045 ppb	0.015 ppb	0.005 ppb	9.804 ppb	-0.002 ppb	0.069 ppb	-0.011 ppb	0.164 ppb	95.463 %
Concentration per Run 1	-0.033 ppb	0.022 ppb	-0.046 ppb	11.199 ppb	-0.004 ppb	0.066 ppb	0.002 ppb	0.216 ppb	90.401 %
Concentration per Run 2	-0.051 ppb	0.017 ppb	0.002 ppb	9.301 ppb	0.000 ppb	0.077 ppb	-0.016 ppb	0.202 ppb	99.847 %
Concentration per Run 3	-0.051 ppb	0.005 ppb	0.059 ppb	8.910 ppb	-0.003 ppb	0.065 ppb	-0.018 ppb	0.075 ppb	96.141 %
Recovery Percentage 1	-0.901 %	1.475 %	0.500 %	19.607 %	-0.406 %	3.457 %	-1.065 %	3.286 %	
Concentration RSD	22.5 %	56.8 %	1,058.6 %	12.5 %	96.6 %	9.4 %	104.9 %	47.1 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.190 ppb	0.427 ppb	0.001 ppb	0.636 ppb	91.674 %	0.003 ppb	0.001 ppb	94.942 %	0.048 ppb
Concentration per Run 1	0.153 ppb	0.522 ppb	-0.007 ppb	0.588 ppb	89.968 %	0.002 ppb	0.000 ppb	91.403 %	0.058 ppb
Concentration per Run 2	0.125 ppb	0.506 ppb	0.007 ppb	0.686 ppb	90.740 %	0.003 ppb	0.002 ppb	97.622 %	0.038 ppb
Concentration per Run 3	0.293 ppb	0.253 ppb	0.003 ppb	0.634 ppb	94.313 %	0.003 ppb	0.002 ppb	95.800 %	0.048 ppb
Recovery Percentage 1	38.008 %	8.539 %	0.011 %	31.800 %		0.673 %	0.726 %		1.204 %
Concentration RSD	47.5 %	35.4 %	660.4 %	7.7 %	2.5 %	24.0 %	74.6 %	3.4 %	19.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.004 ppb	88.336 %	90.376 %	0.468 ppb	0.011 ppb	89.416 %
Concentration per Run 1	-0.013 ppb	87.221 %	85.327 %	0.408 ppb	0.014 ppb	89.417 %
Concentration per Run 2	0.001 ppb	88.617 %	91.928 %	0.531 ppb	0.013 ppb	89.844 %
Concentration per Run 3	0.001 ppb	89.170 %	93.872 %	0.467 ppb	0.008 ppb	88.986 %
Recovery Percentage 1	-0.723 %			46.835 %	1.130 %	
Concentration RSD	220.7 %	1.1 %	5.0 %	13.1 %	27.9 %	0.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	160	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371131-04 6020SL	Rack	2		
Analysis started at:	12/5/2023 9:08:44 PM	Vial	52		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.141 %	98.162 %	0.005 ppb	140,425.095 ppb	10,427.989 ppb	3.764 ppb	6,607.011 ppb	65,660.601 ppb	103.189 %
Concentration per Run 1	90.459 %	93.346 %	-0.004 ppb	146,789.768 ppb	10,689.659 ppb	3.878 ppb	7,178.939 ppb	69,708.053 ppb	103.517 %
Concentration per Run 2	88.503 %	95.057 %	0.011 ppb	142,648.914 ppb	10,717.679 ppb	4.261 ppb	6,599.831 ppb	65,940.268 ppb	104.031 %
Concentration per Run 3	85.460 %	106.084 %	0.008 ppb	131,836.603 ppb	9,876.629 ppb	3.154 ppb	6,042.263 ppb	61,333.483 ppb	102.020 %
Concentration RSD	2.9 %	7.0 %	157.5 %	5.5 %	4.6 %	14.9 %	8.6 %	6.4 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.020 ppb	0.109 ppb	530.703 ppb	18,823.175 ppb	0.067 ppb	0.859 ppb	0.176 ppb	1.270 ppb	96.476 %
Concentration per Run 1	-0.041 ppb	0.128 ppb	546.898 ppb	19,798.693 ppb	0.056 ppb	0.894 ppb	0.204 ppb	1.306 ppb	91.931 %
Concentration per Run 2	0.019 ppb	0.117 ppb	536.888 ppb	18,761.387 ppb	0.064 ppb	0.895 ppb	0.153 ppb	1.268 ppb	96.566 %
Concentration per Run 3	-0.039 ppb	0.084 ppb	508.322 ppb	17,909.446 ppb	0.080 ppb	0.788 ppb	0.170 ppb	1.236 ppb	100.932 %
Concentration RSD	168.4 %	20.9 %	3.8 %	5.0 %	18.4 %	7.2 %	14.7 %	2.8 %	4.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	15.755 ppb	0.015 ppb	272.446 ppb	1.085 ppb	88.527 %	0.000 ppb	0.012 ppb	94.878 %	0.143 ppb
Concentration per Run 1	16.671 ppb	-0.045 ppb	286.457 ppb	1.061 ppb	83.736 %	0.000 ppb	0.007 ppb	92.353 %	0.126 ppb
Concentration per Run 2	15.477 ppb	0.035 ppb	270.349 ppb	1.103 ppb	89.429 %	0.000 ppb	0.014 ppb	94.169 %	0.137 ppb
Concentration per Run 3	15.117 ppb	0.056 ppb	260.531 ppb	1.090 ppb	92.417 %	0.000 ppb	0.016 ppb	98.114 %	0.167 ppb
Concentration RSD	5.2 %	345.6 %	4.8 %	2.0 %	5.0 %	149.8 %	40.6 %	3.1 %	14.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	94.508 ppb	90.467 %	94.147 %	0.097 ppb	0.947 ppb	94.603 %
Concentration per Run 1	94.221 ppb	89.226 %	90.388 %	0.091 ppb	0.854 ppb	105.152 %
Concentration per Run 2	95.355 ppb	91.179 %	94.751 %	0.103 ppb	0.971 ppb	91.146 %
Concentration per Run 3	93.948 ppb	90.995 %	97.303 %	0.095 ppb	1.015 ppb	87.510 %
Concentration RSD	0.8 %	1.2 %	3.7 %	6.2 %	8.8 %	9.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	161	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371131-06 6020SL	Rack	2		
Analysis started at:	12/5/2023 9:13:24 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.574 %	94.360 %	0.004 ppb	27,958.011 ppb	4,551.782 ppb	3.784 ppb	44,256.341 ppb	20,848.029 ppb	94.960 %
Concentration per Run 1	92.116 %	92.966 %	0.007 ppb	27,071.836 ppb	4,271.730 ppb	4.121 ppb	44,779.367 ppb	19,761.516 ppb	96.315 %
Concentration per Run 2	90.679 %	90.304 %	0.004 ppb	29,257.500 ppb	4,906.933 ppb	3.643 ppb	44,971.326 ppb	21,935.545 ppb	95.353 %
Concentration per Run 3	88.928 %	99.810 %	0.002 ppb	27,544.699 ppb	4,476.684 ppb	3.589 ppb	43,018.330 ppb	20,847.025 ppb	93.210 %
Concentration RSD	1.8 %	5.2 %	54.0 %	4.1 %	7.1 %	7.7 %	2.4 %	5.2 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.045 ppb	0.131 ppb	17.827 ppb	37.725 ppb	0.082 ppb	0.999 ppb	0.323 ppb	3.320 ppb	95.880 %
Concentration per Run 1	-0.042 ppb	0.104 ppb	16.865 ppb	39.229 ppb	0.087 ppb	1.021 ppb	0.341 ppb	3.277 ppb	94.476 %
Concentration per Run 2	-0.058 ppb	0.129 ppb	19.009 ppb	39.398 ppb	0.072 ppb	1.103 ppb	0.296 ppb	3.441 ppb	96.394 %
Concentration per Run 3	-0.036 ppb	0.160 ppb	17.607 ppb	34.550 ppb	0.086 ppb	0.874 ppb	0.333 ppb	3.241 ppb	96.770 %
Concentration RSD	24.8 %	21.2 %	6.1 %	7.3 %	10.0 %	11.6 %	7.4 %	3.2 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.383 ppb	0.013 ppb	95.354 ppb	0.151 ppb	88.455 %	-0.001 ppb	0.011 ppb	92.349 %	0.042 ppb
Concentration per Run 1	0.412 ppb	0.154 ppb	89.802 ppb	0.110 ppb	87.854 %	-0.001 ppb	0.019 ppb	91.260 %	0.037 ppb
Concentration per Run 2	0.368 ppb	-0.028 ppb	98.480 ppb	0.237 ppb	87.961 %	0.000 ppb	0.009 ppb	91.246 %	0.039 ppb
Concentration per Run 3	0.368 ppb	-0.088 ppb	97.781 ppb	0.107 ppb	89.549 %	-0.001 ppb	0.006 ppb	94.541 %	0.051 ppb
Concentration RSD	6.6 %	1,002.5 %	5.1 %	49.1 %	1.1 %	50.9 %	60.4 %	2.1 %	17.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	40.637 ppb	89.354 %	91.636 %	0.054 ppb	0.047 ppb	87.388 %
Concentration per Run 1	39.516 ppb	89.516 %	92.450 %	0.028 ppb	0.043 ppb	90.217 %
Concentration per Run 2	41.471 ppb	88.495 %	91.129 %	0.067 ppb	0.044 ppb	87.466 %
Concentration per Run 3	40.923 ppb	90.052 %	91.329 %	0.067 ppb	0.053 ppb	84.481 %
Concentration RSD	2.5 %	0.9 %	0.8 %	41.1 %	11.2 %	3.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	162	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371131-13 6020SL	Rack	2		
Analysis started at:	12/5/2023 9:18:05 PM	Vial	54		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.887 %	83.903 %	0.020 ppb	598,298.167 ppb	18,625.205 ppb	190.206 ppb	6,276.298 ppb	233,633.591 ppb	96.755 %
Concentration per Run 1	83.963 %	77.566 %	0.024 ppb	613,441.837 ppb	19,180.778 ppb	189.115 ppb	6,070.688 ppb	223,993.828 ppb	98.413 %
Concentration per Run 2	80.032 %	87.833 %	0.017 ppb	586,199.570 ppb	18,210.224 ppb	182.150 ppb	6,433.521 ppb	237,929.398 ppb	96.584 %
Concentration per Run 3	78.666 %	86.312 %	0.019 ppb	595,253.094 ppb	18,484.614 ppb	199.353 ppb	6,324.685 ppb	238,977.546 ppb	95.267 %
Concentration RSD	3.4 %	6.6 %	17.9 %	2.3 %	2.7 %	4.5 %	3.0 %	3.6 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.839 ppb	0.797 ppb	309.406 ppb	23,089.165 ppb	6.677 ppb	75.151 ppb	0.780 ppb	5.022 ppb	89.266 %
Concentration per Run 1	0.675 ppb	0.777 ppb	296.407 ppb	22,364.577 ppb	6.722 ppb	73.631 ppb	0.680 ppb	4.984 ppb	88.262 %
Concentration per Run 2	0.684 ppb	0.764 ppb	310.955 ppb	23,604.791 ppb	6.727 ppb	76.013 ppb	0.821 ppb	5.068 ppb	88.683 %
Concentration per Run 3	1.159 ppb	0.851 ppb	320.856 ppb	23,298.126 ppb	6.581 ppb	75.809 ppb	0.840 ppb	5.013 ppb	90.854 %
Concentration RSD	33.0 %	5.9 %	4.0 %	2.8 %	1.2 %	1.8 %	11.2 %	0.9 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.789 ppb	0.173 ppb	1,179.324 ppb	0.542 ppb	78.214 %	0.001 ppb	0.100 ppb	83.979 %	0.128 ppb
Concentration per Run 1	3.735 ppb	0.179 ppb	1,124.330 ppb	0.458 ppb	77.151 %	0.001 ppb	0.098 ppb	79.746 %	0.108 ppb
Concentration per Run 2	4.071 ppb	0.158 ppb	1,200.242 ppb	0.568 ppb	79.236 %	0.001 ppb	0.092 ppb	84.187 %	0.159 ppb
Concentration per Run 3	3.560 ppb	0.180 ppb	1,213.399 ppb	0.601 ppb	78.255 %	0.000 ppb	0.109 ppb	88.002 %	0.117 ppb
Concentration RSD	6.9 %	7.2 %	4.1 %	13.8 %	1.3 %	75.4 %	8.9 %	4.9 %	21.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	137.570 ppb	85.691 %	88.572 %	0.059 ppb	0.321 ppb	78.282 %
Concentration per Run 1	138.044 ppb	83.702 %	83.730 %	0.038 ppb	0.300 ppb	80.422 %
Concentration per Run 2	138.491 ppb	87.604 %	91.357 %	0.068 ppb	0.331 ppb	76.999 %
Concentration per Run 3	136.174 ppb	85.766 %	90.628 %	0.071 ppb	0.332 ppb	77.424 %
Concentration RSD	0.9 %	2.3 %	4.8 %	31.0 %	5.7 %	2.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	163	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370562-03d10 6020TL	Rack	2		
Analysis started at:	12/5/2023 9:22:46 PM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	89.489 %	100.824 %	0.008 ppb	85,359.862 ppb	4,982.550 ppb	73.778 ppb	384.425 ppb	5,091.928 ppb	100.053 %
Concentration per Run 1	91.374 %	100.380 %	0.011 ppb	81,767.589 ppb	4,843.992 ppb	71.262 ppb	366.466 ppb	4,915.103 ppb	101.182 %
Concentration per Run 2	90.096 %	103.232 %	0.008 ppb	85,524.117 ppb	4,974.434 ppb	74.043 ppb	376.757 ppb	4,952.952 ppb	100.220 %
Concentration per Run 3	86.996 %	98.859 %	0.004 ppb	88,787.881 ppb	5,129.225 ppb	76.031 ppb	410.051 ppb	5,407.730 ppb	98.758 %
Concentration RSD	2.5 %	2.2 %	40.6 %	4.1 %	2.9 %	3.2 %	5.9 %	5.4 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.132 ppb	0.164 ppb	82.085 ppb	12,517.046 ppb	0.979 ppb	2.759 ppb	0.443 ppb	1.744 ppb	96.360 %
Concentration per Run 1	0.105 ppb	0.139 ppb	79.768 ppb	12,337.389 ppb	0.897 ppb	2.746 ppb	0.437 ppb	1.768 ppb	93.177 %
Concentration per Run 2	0.093 ppb	0.124 ppb	78.984 ppb	11,919.830 ppb	0.964 ppb	2.630 ppb	0.414 ppb	1.583 ppb	101.478 %
Concentration per Run 3	0.197 ppb	0.229 ppb	87.504 ppb	13,293.918 ppb	1.076 ppb	2.902 ppb	0.479 ppb	1.881 ppb	94.425 %
Concentration RSD	43.4 %	34.5 %	5.7 %	5.6 %	9.2 %	4.9 %	7.5 %	8.6 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.602 ppb	0.083 ppb	43.066 ppb	0.144 ppb	88.868 %	0.001 ppb	0.004 ppb	94.227 %	0.044 ppb
Concentration per Run 1	0.677 ppb	0.092 ppb	42.167 ppb	0.180 ppb	86.510 %	0.001 ppb	0.007 ppb	90.899 %	0.036 ppb
Concentration per Run 2	0.461 ppb	0.069 ppb	42.749 ppb	0.141 ppb	89.634 %	0.000 ppb	0.004 ppb	96.301 %	0.052 ppb
Concentration per Run 3	0.667 ppb	0.088 ppb	44.283 ppb	0.111 ppb	90.459 %	0.002 ppb	0.002 ppb	95.482 %	0.043 ppb
Concentration RSD	20.3 %	14.8 %	2.5 %	23.8 %	2.3 %	64.0 %	51.6 %	3.1 %	18.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.891 ppb	89.192 %	94.678 %	0.024 ppb	0.104 ppb	87.754 %
Concentration per Run 1	1.885 ppb	87.560 %	91.419 %	0.013 ppb	0.100 ppb	89.994 %
Concentration per Run 2	1.697 ppb	91.229 %	96.234 %	0.025 ppb	0.107 ppb	87.724 %
Concentration per Run 3	2.090 ppb	88.788 %	96.380 %	0.034 ppb	0.103 ppb	85.544 %
Concentration RSD	10.4 %	2.1 %	3.0 %	43.6 %	3.4 %	2.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	164	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859932-2d10 SPLP-6020T	Rack	2		
Analysis started at:	12/5/2023 9:27:27 PM	Vial	57		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.787 %	98.796 %	4.999 ppb	1,042.508 ppb	1,032.944 ppb	207.676 ppb	1,044.996 ppb	1,085.085 ppb	95.256 %
Concentration per Run 1	95.754 %	95.247 %	4.961 ppb	1,078.424 ppb	1,030.959 ppb	211.372 ppb	1,076.682 ppb	1,123.709 ppb	95.313 %
Concentration per Run 2	93.747 %	102.662 %	5.076 ppb	1,018.840 ppb	1,021.742 ppb	209.153 ppb	1,055.491 ppb	1,095.884 ppb	95.001 %
Concentration per Run 3	91.858 %	98.479 %	4.960 ppb	1,030.258 ppb	1,046.132 ppb	202.503 ppb	1,002.816 ppb	1,035.662 ppb	95.453 %
Concentration RSD	2.1 %	3.8 %	1.3 %	3.0 %	1.2 %	2.2 %	3.6 %	4.1 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.296 ppb	18.746 ppb	48.533 ppb	129.647 ppb	50.064 ppb	48.807 ppb	24.521 ppb	48.731 ppb	97.818 %
Concentration per Run 1	47.133 ppb	19.505 ppb	51.220 ppb	142.657 ppb	52.796 ppb	49.524 ppb	25.360 ppb	49.829 ppb	93.174 %
Concentration per Run 2	46.955 ppb	18.813 ppb	47.104 ppb	125.179 ppb	50.733 ppb	49.732 ppb	24.581 ppb	49.022 ppb	98.105 %
Concentration per Run 3	44.801 ppb	17.920 ppb	47.275 ppb	121.106 ppb	46.662 ppb	47.165 ppb	23.621 ppb	47.343 ppb	102.175 %
Concentration RSD	2.8 %	4.2 %	4.8 %	8.8 %	6.2 %	2.9 %	3.6 %	2.6 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.017 ppb	11.206 ppb	93.033 ppb	96.735 ppb	92.560 %	4.926 ppb	5.155 ppb	96.554 %	49.548 ppb
Concentration per Run 1	12.781 ppb	10.949 ppb	94.152 ppb	94.040 ppb	91.928 %	5.006 ppb	5.304 ppb	95.110 %	49.198 ppb
Concentration per Run 2	11.926 ppb	11.036 ppb	94.868 ppb	99.408 ppb	90.730 %	5.010 ppb	5.180 ppb	97.720 %	49.953 ppb
Concentration per Run 3	11.346 ppb	11.634 ppb	90.080 ppb	96.758 ppb	95.022 %	4.763 ppb	4.980 ppb	96.832 %	49.492 ppb
Concentration RSD	6.0 %	3.3 %	2.8 %	2.8 %	2.4 %	2.9 %	3.2 %	1.4 %	0.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	196.390 ppb	91.044 %	93.250 %	11.616 ppb	50.707 ppb	88.948 %
Concentration per Run 1	191.238 ppb	90.072 %	93.455 %	10.718 ppb	48.107 ppb	94.037 %
Concentration per Run 2	196.947 ppb	89.520 %	92.628 %	11.542 ppb	51.825 ppb	87.757 %
Concentration per Run 3	200.986 ppb	93.541 %	93.667 %	12.587 ppb	52.190 ppb	85.050 %
Concentration RSD	2.5 %	2.4 %	0.6 %	8.1 %	4.5 %	5.2 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	165	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859932-3d10 SPLP-6020T	Rack	2		
Analysis started at:	12/5/2023 9:32:07 PM	Vial	59		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.114 %	94.994 %	5.043 ppb	1,692.206 ppb	1,047.208 ppb	411.279 ppb	1,173.868 ppb	3,817.841 ppb	96.714 %
Concentration per Run 1	93.342 %	97.909 %	5.038 ppb	1,645.967 ppb	1,019.433 ppb	402.792 ppb	1,144.891 ppb	3,731.949 ppb	97.737 %
Concentration per Run 2	91.211 %	93.346 %	5.037 ppb	1,736.686 ppb	1,078.108 ppb	417.887 ppb	1,186.545 ppb	3,884.329 ppb	96.625 %
Concentration per Run 3	88.791 %	93.726 %	5.055 ppb	1,693.966 ppb	1,044.084 ppb	413.159 ppb	1,190.167 ppb	3,837.244 ppb	95.780 %
Concentration RSD	2.5 %	2.7 %	0.2 %	2.7 %	2.8 %	1.9 %	2.1 %	2.0 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.798 ppb	19.676 ppb	48.774 ppb	146.900 ppb	49.138 ppb	49.587 ppb	31.043 ppb	46.711 ppb	99.604 %
Concentration per Run 1	47.929 ppb	19.463 ppb	49.087 ppb	150.824 ppb	49.387 ppb	49.956 ppb	31.398 ppb	47.833 ppb	96.123 %
Concentration per Run 2	49.315 ppb	20.025 ppb	49.799 ppb	151.516 ppb	50.946 ppb	50.444 ppb	32.199 ppb	47.746 ppb	97.615 %
Concentration per Run 3	49.151 ppb	19.540 ppb	47.435 ppb	138.359 ppb	47.080 ppb	48.363 ppb	29.533 ppb	44.553 ppb	105.072 %
Concentration RSD	1.6 %	1.5 %	2.5 %	5.0 %	4.0 %	2.2 %	4.4 %	4.0 %	4.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.655 ppb	10.924 ppb	102.529 ppb	97.426 ppb	93.615 %	4.762 ppb	5.047 ppb	98.400 %	48.611 ppb
Concentration per Run 1	12.919 ppb	10.154 ppb	104.338 ppb	96.036 ppb	90.973 %	4.803 ppb	5.076 ppb	95.403 %	49.739 ppb
Concentration per Run 2	13.226 ppb	11.771 ppb	103.283 ppb	98.115 ppb	94.727 %	4.735 ppb	4.999 ppb	98.880 %	48.208 ppb
Concentration per Run 3	11.820 ppb	10.847 ppb	99.968 ppb	98.126 ppb	95.144 %	4.749 ppb	5.067 ppb	100.918 %	47.886 ppb
Concentration RSD	5.8 %	7.4 %	2.2 %	1.2 %	2.5 %	0.7 %	0.8 %	2.8 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	185.996 ppb	92.799 %	94.404 %	10.981 ppb	48.510 ppb	90.661 %
Concentration per Run 1	193.294 ppb	93.061 %	93.711 %	10.205 ppb	46.190 ppb	93.148 %
Concentration per Run 2	182.826 ppb	92.891 %	94.605 %	10.821 ppb	48.721 ppb	90.212 %
Concentration per Run 3	181.868 ppb	92.446 %	94.897 %	11.917 ppb	50.620 ppb	88.623 %
Concentration RSD	3.4 %	0.3 %	0.7 %	7.9 %	4.6 %	2.5 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	166	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859932-5d10 SPLP-6020T	Rack	3		
Analysis started at:	12/5/2023 9:36:48 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.580 %	96.641 %	49.172 ppb	5,105.532 ppb	4,941.024 ppb	253.057 ppb	4,980.275 ppb	7,316.483 ppb	94.268 %
Concentration per Run 1	89.026 %	102.852 %	49.110 ppb	4,763.334 ppb	4,532.478 ppb	236.940 ppb	4,643.304 ppb	6,800.909 ppb	93.966 %
Concentration per Run 2	85.535 %	88.023 %	49.219 ppb	5,434.359 ppb	5,259.431 ppb	270.516 ppb	5,399.475 ppb	7,825.767 ppb	94.610 %
Concentration per Run 3	85.178 %	99.049 %	49.188 ppb	5,118.902 ppb	5,031.164 ppb	251.716 ppb	4,898.045 ppb	7,322.774 ppb	94.229 %
Concentration RSD	2.5 %	8.0 %	0.1 %	6.6 %	7.5 %	6.6 %	7.7 %	7.0 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.841 ppb	46.547 ppb	48.191 ppb	4,878.059 ppb	47.974 ppb	48.615 ppb	54.090 ppb	46.619 ppb	98.611 %
Concentration per Run 1	46.759 ppb	43.239 ppb	45.443 ppb	4,613.678 ppb	46.089 ppb	46.997 ppb	51.432 ppb	44.602 ppb	100.158 %
Concentration per Run 2	48.511 ppb	49.459 ppb	49.916 ppb	5,191.372 ppb	48.846 ppb	50.435 ppb	54.879 ppb	47.865 ppb	97.991 %
Concentration per Run 3	48.252 ppb	46.943 ppb	49.215 ppb	4,829.126 ppb	48.987 ppb	48.413 ppb	55.960 ppb	47.389 ppb	97.685 %
Concentration RSD	2.0 %	6.7 %	5.0 %	6.0 %	3.4 %	3.6 %	4.4 %	3.8 %	1.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	47.135 ppb	44.395 ppb	57.976 ppb	51.151 ppb	91.466 %	1.731 ppb	46.385 ppb	96.500 %	47.562 ppb
Concentration per Run 1	45.461 ppb	42.808 ppb	57.073 ppb	49.977 ppb	89.863 %	1.706 ppb	44.948 ppb	97.233 %	46.804 ppb
Concentration per Run 2	48.021 ppb	44.800 ppb	58.016 ppb	52.095 ppb	93.384 %	1.717 ppb	47.483 ppb	95.882 %	46.942 ppb
Concentration per Run 3	47.923 ppb	45.578 ppb	58.838 ppb	51.381 ppb	91.149 %	1.771 ppb	46.725 ppb	96.384 %	48.939 ppb
Concentration RSD	3.1 %	3.2 %	1.5 %	2.1 %	1.9 %	2.0 %	2.8 %	0.7 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	46.770 ppb	91.150 %	93.521 %	46.508 ppb	45.245 ppb	89.209 %
Concentration per Run 1	45.874 ppb	90.330 %	92.878 %	42.636 ppb	43.162 ppb	93.566 %
Concentration per Run 2	47.086 ppb	92.363 %	94.186 %	48.173 ppb	46.445 ppb	86.345 %
Concentration per Run 3	47.350 ppb	90.758 %	93.498 %	48.715 ppb	46.127 ppb	87.717 %
Concentration RSD	1.7 %	1.2 %	0.7 %	7.2 %	4.0 %	4.3 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	167	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859932-4d10 SPLP-6020T	Rack	2		
Analysis started at:	12/5/2023 9:41:29 PM	Vial	60		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	87.012 %	101.014 %	0.014 ppb	762.004 ppb	16.654 ppb	198.086 ppb	145.175 ppb	2,793.789 ppb	92.802 %
Concentration per Run 1	89.092 %	90.874 %	0.007 ppb	861.331 ppb	18.445 ppb	214.953 ppb	155.955 ppb	3,048.041 ppb	93.401 %
Concentration per Run 2	86.869 %	100.951 %	0.021 ppb	735.234 ppb	16.379 ppb	194.457 ppb	146.387 ppb	2,795.862 ppb	92.730 %
Concentration per Run 3	85.074 %	111.217 %	0.014 ppb	689.449 ppb	15.139 ppb	184.849 ppb	133.182 ppb	2,537.464 ppb	92.276 %
Concentration RSD	2.3 %	10.1 %	51.5 %	11.7 %	10.0 %	7.8 %	7.9 %	9.1 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.794 ppb	0.831 ppb	0.468 ppb	51.978 ppb	0.014 ppb	0.154 ppb	7.380 ppb	0.569 ppb	97.999 %
Concentration per Run 1	1.926 ppb	0.898 ppb	0.505 ppb	52.861 ppb	0.015 ppb	0.129 ppb	7.392 ppb	0.636 ppb	92.830 %
Concentration per Run 2	1.774 ppb	0.789 ppb	0.433 ppb	49.995 ppb	0.019 ppb	0.183 ppb	7.244 ppb	0.554 ppb	102.068 %
Concentration per Run 3	1.682 ppb	0.808 ppb	0.467 ppb	53.079 ppb	0.008 ppb	0.150 ppb	7.504 ppb	0.518 ppb	99.097 %
Concentration RSD	6.9 %	7.0 %	7.7 %	3.3 %	39.9 %	17.8 %	1.8 %	10.5 %	4.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.284 ppb	0.351 ppb	13.348 ppb	2.446 ppb	93.232 %	0.006 ppb	0.006 ppb	97.208 %	0.402 ppb
Concentration per Run 1	1.654 ppb	0.538 ppb	13.561 ppb	2.352 ppb	92.832 %	0.008 ppb	0.008 ppb	96.296 %	0.396 ppb
Concentration per Run 2	1.039 ppb	0.281 ppb	12.991 ppb	2.399 ppb	93.871 %	0.006 ppb	0.004 ppb	97.929 %	0.393 ppb
Concentration per Run 3	1.158 ppb	0.234 ppb	13.491 ppb	2.586 ppb	92.992 %	0.004 ppb	0.006 ppb	97.400 %	0.417 ppb
Concentration RSD	25.4 %	46.7 %	2.3 %	5.0 %	0.6 %	29.3 %	33.7 %	0.9 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2.983 ppb	91.585 %	93.803 %	0.400 ppb	0.397 ppb	89.525 %
Concentration per Run 1	3.129 ppb	88.284 %	91.598 %	0.317 ppb	0.399 ppb	89.176 %
Concentration per Run 2	2.857 ppb	93.425 %	96.524 %	0.452 ppb	0.390 ppb	91.202 %
Concentration per Run 3	2.965 ppb	93.046 %	93.288 %	0.431 ppb	0.403 ppb	88.198 %
Concentration RSD	4.6 %	3.1 %	2.7 %	18.1 %	1.7 %	1.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	168	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2367708-05d10 SPLP-6020T	Rack	2		
Analysis started at:	12/5/2023 9:46:11 PM	Vial	58		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	88.473 %	97.402 %	0.005 ppb	778.011 ppb	16.973 ppb	197.761 ppb	158.712 ppb	2,732.540 ppb	92.662 %
Concentration per Run 1	91.094 %	93.156 %	0.004 ppb	805.126 ppb	16.138 ppb	199.173 ppb	170.967 ppb	2,771.499 ppb	92.591 %
Concentration per Run 2	88.814 %	102.281 %	0.005 ppb	725.626 ppb	14.879 ppb	192.276 ppb	139.995 ppb	2,678.670 ppb	93.094 %
Concentration per Run 3	85.511 %	96.768 %	0.006 ppb	803.282 ppb	19.902 ppb	201.833 ppb	165.174 ppb	2,747.452 ppb	92.302 %
Concentration RSD	3.2 %	4.7 %	16.1 %	5.8 %	15.4 %	2.5 %	10.4 %	1.8 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.698 ppb	0.832 ppb	0.424 ppb	49.006 ppb	0.018 ppb	0.128 ppb	7.260 ppb	0.597 ppb	97.044 %
Concentration per Run 1	1.721 ppb	0.761 ppb	0.446 ppb	48.155 ppb	0.024 ppb	0.134 ppb	7.158 ppb	0.676 ppb	95.666 %
Concentration per Run 2	1.684 ppb	0.860 ppb	0.396 ppb	54.369 ppb	0.009 ppb	0.101 ppb	7.176 ppb	0.616 ppb	97.800 %
Concentration per Run 3	1.689 ppb	0.875 ppb	0.431 ppb	44.493 ppb	0.021 ppb	0.149 ppb	7.447 ppb	0.499 ppb	97.665 %
Concentration RSD	1.2 %	7.5 %	6.1 %	10.2 %	45.7 %	19.0 %	2.2 %	15.0 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.279 ppb	0.403 ppb	13.367 ppb	1.705 ppb	92.740 %	0.007 ppb	0.002 ppb	96.399 %	0.382 ppb
Concentration per Run 1	1.473 ppb	0.257 ppb	13.564 ppb	1.692 ppb	88.777 %	0.003 ppb	0.008 ppb	96.311 %	0.385 ppb
Concentration per Run 2	1.298 ppb	0.706 ppb	13.095 ppb	1.675 ppb	96.082 %	0.010 ppb	0.000 ppb	98.478 %	0.366 ppb
Concentration per Run 3	1.065 ppb	0.245 ppb	13.441 ppb	1.748 ppb	93.360 %	0.006 ppb	-0.002 ppb	94.409 %	0.395 ppb
Concentration RSD	16.0 %	65.2 %	1.8 %	2.2 %	4.0 %	51.1 %	251.4 %	2.1 %	3.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	3.254 ppb	89.943 %	92.229 %	0.125 ppb	0.382 ppb	88.741 %
Concentration per Run 1	3.159 ppb	88.116 %	90.138 %	0.081 ppb	0.387 ppb	87.473 %
Concentration per Run 2	3.380 ppb	90.592 %	93.374 %	0.144 ppb	0.382 ppb	87.946 %
Concentration per Run 3	3.223 ppb	91.121 %	93.175 %	0.151 ppb	0.378 ppb	90.804 %
Concentration RSD	3.5 %	1.8 %	2.0 %	31.1 %	1.2 %	2.0 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	169	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859932-6d50 SPLP-6020T	Rack	3		
Analysis started at:	12/5/2023 9:50:52 PM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	86.068 %	96.198 %	0.007 ppb	185.456 ppb	5.431 ppb	40.059 ppb	38.638 ppb	554.663 ppb	91.024 %
Concentration per Run 1	87.480 %	89.353 %	0.008 ppb	200.892 ppb	6.576 ppb	43.229 ppb	47.377 ppb	550.829 ppb	90.925 %
Concentration per Run 2	86.031 %	98.479 %	0.007 ppb	181.193 ppb	5.339 ppb	36.431 ppb	39.760 ppb	555.542 ppb	90.111 %
Concentration per Run 3	84.692 %	100.760 %	0.008 ppb	174.282 ppb	4.376 ppb	40.517 ppb	28.778 ppb	557.619 ppb	92.035 %
Concentration RSD	1.6 %	6.3 %	7.3 %	7.4 %	20.3 %	8.5 %	24.2 %	0.6 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.286 ppb	0.189 ppb	0.136 ppb	10.167 ppb	0.000 ppb	0.081 ppb	1.534 ppb	0.047 ppb	96.713 %
Concentration per Run 1	0.293 ppb	0.169 ppb	0.196 ppb	10.770 ppb	-0.001 ppb	0.077 ppb	1.608 ppb	0.059 ppb	92.529 %
Concentration per Run 2	0.288 ppb	0.211 ppb	0.055 ppb	9.128 ppb	0.002 ppb	0.062 ppb	1.438 ppb	0.019 ppb	98.467 %
Concentration per Run 3	0.276 ppb	0.189 ppb	0.157 ppb	10.604 ppb	0.000 ppb	0.105 ppb	1.556 ppb	0.063 ppb	99.143 %
Concentration RSD	3.0 %	11.0 %	53.9 %	8.9 %	324.3 %	27.1 %	5.7 %	51.0 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.328 ppb	-0.020 ppb	2.599 ppb	0.441 ppb	91.462 %	0.002 ppb	0.003 ppb	96.073 %	0.086 ppb
Concentration per Run 1	0.353 ppb	-0.090 ppb	2.659 ppb	0.386 ppb	90.171 %	0.002 ppb	-0.002 ppb	93.828 %	0.067 ppb
Concentration per Run 2	0.337 ppb	0.060 ppb	2.527 ppb	0.450 ppb	91.746 %	0.002 ppb	0.012 ppb	98.407 %	0.106 ppb
Concentration per Run 3	0.293 ppb	-0.031 ppb	2.610 ppb	0.488 ppb	92.470 %	0.002 ppb	-0.002 ppb	95.984 %	0.084 ppb
Concentration RSD	9.4 %	373.2 %	2.6 %	11.7 %	1.3 %	13.8 %	293.3 %	2.4 %	23.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.596 ppb	90.007 %	93.621 %	0.068 ppb	0.075 ppb	88.094 %
Concentration per Run 1	0.699 ppb	86.296 %	93.066 %	0.038 ppb	0.075 ppb	86.150 %
Concentration per Run 2	0.524 ppb	92.822 %	93.730 %	0.082 ppb	0.073 ppb	89.356 %
Concentration per Run 3	0.564 ppb	90.903 %	94.068 %	0.084 ppb	0.076 ppb	88.774 %
Concentration RSD	15.4 %	3.7 %	0.5 %	37.7 %	2.2 %	1.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	170	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 9:55:33 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	84.441 %	98.035 %	61.398 ppb	6,165.472 ppb	6,288.989 ppb	64.584 ppb	6,175.941 ppb	5,851.843 ppb	93.226 %
Concentration per Run 1	86.212 %	95.627 %	60.850 ppb	6,458.740 ppb	6,207.747 ppb	64.509 ppb	6,270.336 ppb	5,953.185 ppb	94.129 %
Concentration per Run 2	84.804 %	100.380 %	61.572 ppb	6,420.144 ppb	6,330.653 ppb	64.051 ppb	5,944.041 ppb	5,802.550 ppb	93.866 %
Concentration per Run 3	82.306 %	98.099 %	61.772 ppb	5,617.532 ppb	6,328.568 ppb	65.192 ppb	6,313.447 ppb	5,799.795 ppb	91.682 %
Recovery Percentage 1			102.330 %	102.758 %	104.816 %	107.640 %	102.932 %	97.531 %	
Concentration RSD	2.3 %	2.4 %	0.8 %	7.7 %	1.1 %	0.9 %	3.3 %	1.5 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.151 ppb	56.922 ppb	59.713 ppb	6,107.401 ppb	62.483 ppb	62.236 ppb	61.164 ppb	58.518 ppb	96.664 %
Concentration per Run 1	56.652 ppb	57.219 ppb	58.716 ppb	6,103.516 ppb	64.163 ppb	63.713 ppb	62.140 ppb	57.708 ppb	93.271 %
Concentration per Run 2	56.710 ppb	54.886 ppb	57.669 ppb	5,822.898 ppb	59.395 ppb	59.310 ppb	59.082 ppb	58.087 ppb	99.687 %
Concentration per Run 3	58.092 ppb	58.661 ppb	62.755 ppb	6,395.791 ppb	63.890 ppb	63.683 ppb	62.269 ppb	59.761 ppb	97.033 %
Recovery Percentage 1	95.252 %	94.869 %	99.522 %	101.790 %	104.138 %	103.726 %	101.940 %	97.531 %	
Concentration RSD	1.4 %	3.3 %	4.5 %	4.7 %	4.3 %	4.1 %	2.9 %	1.9 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.737 ppb	58.295 ppb	56.846 ppb	61.203 ppb	90.825 %	59.921 ppb	59.469 ppb	92.633 %	61.945 ppb
Concentration per Run 1	59.803 ppb	60.352 ppb	56.784 ppb	58.260 ppb	90.216 %	59.079 ppb	58.977 ppb	92.287 %	62.697 ppb
Concentration per Run 2	59.112 ppb	56.805 ppb	56.103 ppb	61.943 ppb	89.835 %	61.608 ppb	60.494 ppb	88.878 %	63.035 ppb
Concentration per Run 3	63.296 ppb	57.728 ppb	57.649 ppb	63.406 ppb	92.423 %	59.076 ppb	58.937 ppb	96.735 %	60.103 ppb
Recovery Percentage 1	101.228 %	97.159 %	94.743 %	102.005 %		99.868 %	99.116 %		103.242 %
Concentration RSD	3.7 %	3.2 %	1.4 %	4.3 %	1.5 %	2.4 %	1.5 %	4.3 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.448 ppb	89.331 %	93.043 %	58.500 ppb	56.289 ppb	88.817 %
Concentration per Run 1	60.541 ppb	90.524 %	91.608 %	51.152 ppb	51.320 ppb	96.536 %
Concentration per Run 2	59.306 ppb	88.603 %	93.520 %	60.043 ppb	57.829 ppb	86.971 %
Concentration per Run 3	58.495 ppb	88.866 %	94.002 %	64.305 ppb	59.719 ppb	82.946 %
Recovery Percentage 1	99.079 %			97.500 %	93.815 %	
Concentration RSD	1.7 %	1.2 %	1.4 %	11.5 %	7.8 %	7.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	171	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 10:00:17 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	83.059 %	99.556 %	0.010 ppb	44.812 ppb	0.634 ppb	0.070 ppb	3.509 ppb	-3.250 ppb	87.468 %
Concentration per Run 1	84.571 %	93.726 %	0.012 ppb	49.549 ppb	0.434 ppb	-0.125 ppb	9.679 ppb	4.228 ppb	88.568 %
Concentration per Run 2	83.031 %	105.703 %	0.003 ppb	34.579 ppb	0.130 ppb	0.123 ppb	2.899 ppb	-9.407 ppb	86.845 %
Concentration per Run 3	81.575 %	99.240 %	0.016 ppb	50.306 ppb	1.339 ppb	0.212 ppb	-2.050 ppb	-4.570 ppb	86.991 %
Recovery Percentage 1			2.070 %	44.812 %	0.906 %	0.698 %	3.509 %	-3.250 %	
Concentration RSD	1.8 %	6.0 %	63.5 %	19.8 %	99.1 %	250.3 %	167.8 %	212.7 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.056 ppb	0.000 ppb	-0.031 ppb	10.819 ppb	-0.002 ppb	0.046 ppb	0.011 ppb	0.169 ppb	97.178 %
Concentration per Run 1	-0.050 ppb	0.000 ppb	0.048 ppb	10.395 ppb	-0.001 ppb	0.010 ppb	0.008 ppb	0.268 ppb	94.937 %
Concentration per Run 2	-0.052 ppb	0.004 ppb	-0.118 ppb	10.657 ppb	-0.004 ppb	0.006 ppb	0.029 ppb	0.116 ppb	98.644 %
Concentration per Run 3	-0.067 ppb	-0.004 ppb	-0.025 ppb	11.404 ppb	-0.001 ppb	0.122 ppb	-0.005 ppb	0.122 ppb	97.952 %
Recovery Percentage 1	-1.127 %	0.010 %	-3.142 %	21.638 %	-0.433 %	2.295 %	1.056 %	3.373 %	
Concentration RSD	15.9 %	3,930.5 %	265.1 %	4.8 %	86.5 %	144.5 %	162.7 %	50.9 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.346 ppb	0.362 ppb	0.001 ppb	0.768 ppb	92.524 %	0.004 ppb	-0.001 ppb	96.204 %	0.057 ppb
Concentration per Run 1	0.389 ppb	0.359 ppb	0.016 ppb	0.667 ppb	91.158 %	0.005 ppb	0.000 ppb	91.469 %	0.067 ppb
Concentration per Run 2	0.284 ppb	0.585 ppb	-0.008 ppb	0.772 ppb	90.616 %	0.005 ppb	-0.002 ppb	94.098 %	0.037 ppb
Concentration per Run 3	0.367 ppb	0.142 ppb	-0.005 ppb	0.866 ppb	95.797 %	0.004 ppb	0.000 ppb	103.045 %	0.068 ppb
Recovery Percentage 1	69.281 %	7.241 %	0.011 %	38.423 %		1.110 %	-0.279 %		1.432 %
Concentration RSD	16.0 %	61.2 %	1,259.1 %	13.0 %	3.1 %	17.6 %	203.7 %	6.3 %	30.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.014 ppb	89.662 %	92.857 %	0.498 ppb	0.014 ppb	87.544 %
Concentration per Run 1	0.001 ppb	88.667 %	91.426 %	0.388 ppb	0.014 ppb	88.931 %
Concentration per Run 2	-0.013 ppb	87.759 %	90.508 %	0.584 ppb	0.016 ppb	85.807 %
Concentration per Run 3	0.053 ppb	92.559 %	96.636 %	0.522 ppb	0.013 ppb	87.895 %
Recovery Percentage 1	2.756 %			49.818 %	1.433 %	
Concentration RSD	250.4 %	2.8 %	3.6 %	20.2 %	9.9 %	1.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	172	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859932-1d10 SPLP-6020T	Rack	2		
Analysis started at:	12/5/2023 10:05:01 PM	Vial	56		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.428 %	100.951 %	0.008 ppb	59.841 ppb	1.945 ppb	0.863 ppb	4.095 ppb	5.909 ppb	88.572 %
Concentration per Run 1	83.297 %	104.183 %	0.014 ppb	56.335 ppb	1.299 ppb	1.223 ppb	8.186 ppb	12.590 ppb	87.643 %
Concentration per Run 2	82.978 %	108.365 %	0.004 ppb	44.813 ppb	1.154 ppb	0.761 ppb	-11.021 ppb	6.005 ppb	88.944 %
Concentration per Run 3	81.010 %	90.304 %	0.005 ppb	78.375 ppb	3.382 ppb	0.605 ppb	15.121 ppb	-0.869 ppb	89.130 %
Concentration RSD	1.5 %	9.4 %	73.0 %	28.5 %	64.1 %	37.3 %	330.7 %	113.9 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.051 ppb	0.118 ppb	-0.014 ppb	6.327 ppb	0.004 ppb	0.054 ppb	0.012 ppb	0.988 ppb	99.035 %
Concentration per Run 1	-0.019 ppb	0.140 ppb	-0.061 ppb	4.953 ppb	0.002 ppb	0.059 ppb	-0.006 ppb	1.069 ppb	89.927 %
Concentration per Run 2	-0.060 ppb	0.125 ppb	0.035 ppb	8.123 ppb	0.010 ppb	0.038 ppb	0.014 ppb	0.953 ppb	100.128 %
Concentration per Run 3	-0.075 ppb	0.091 ppb	-0.016 ppb	5.906 ppb	0.001 ppb	0.065 ppb	0.028 ppb	0.943 ppb	107.049 %
Concentration RSD	56.7 %	20.9 %	335.4 %	25.7 %	107.4 %	26.0 %	138.4 %	7.1 %	8.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.286 ppb	-0.014 ppb	0.052 ppb	0.270 ppb	94.474 %	0.001 ppb	-0.001 ppb	96.343 %	0.032 ppb
Concentration per Run 1	0.424 ppb	-0.082 ppb	0.067 ppb	0.281 ppb	91.378 %	0.000 ppb	0.002 ppb	95.335 %	0.022 ppb
Concentration per Run 2	0.264 ppb	0.022 ppb	0.048 ppb	0.245 ppb	95.111 %	0.001 ppb	-0.002 ppb	94.051 %	0.042 ppb
Concentration per Run 3	0.170 ppb	0.017 ppb	0.040 ppb	0.283 ppb	96.932 %	0.003 ppb	-0.002 ppb	99.644 %	0.033 ppb
Concentration RSD	45.0 %	408.4 %	26.9 %	7.9 %	3.0 %	96.8 %	432.5 %	3.0 %	31.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2.647 ppb	89.545 %	92.301 %	0.145 ppb	0.004 ppb	92.123 %
Concentration per Run 1	2.719 ppb	86.876 %	88.794 %	0.094 ppb	0.004 ppb	93.847 %
Concentration per Run 2	2.299 ppb	89.041 %	91.825 %	0.168 ppb	0.003 ppb	90.600 %
Concentration per Run 3	2.922 ppb	92.718 %	96.283 %	0.172 ppb	0.004 ppb	91.923 %
Concentration RSD	12.0 %	3.3 %	4.1 %	30.4 %	13.2 %	1.8 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	173	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 10:09:42 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.836 %	96.388 %	61.989 ppb	6,044.831 ppb	6,355.778 ppb	64.593 ppb	6,298.460 ppb	6,032.999 ppb	94.343 %
Concentration per Run 1	83.012 %	97.338 %	61.219 ppb	5,541.816 ppb	6,200.515 ppb	61.862 ppb	6,301.611 ppb	5,987.410 ppb	94.649 %
Concentration per Run 2	82.402 %	97.719 %	62.298 ppb	5,560.037 ppb	6,291.620 ppb	65.224 ppb	6,089.320 ppb	5,716.403 ppb	94.295 %
Concentration per Run 3	80.093 %	94.106 %	62.451 ppb	7,032.641 ppb	6,575.198 ppb	66.694 ppb	6,504.448 ppb	6,395.184 ppb	94.084 %
Recovery Percentage 1			103.316 %	100.747 %	105.930 %	107.656 %	104.974 %	100.550 %	
Concentration RSD	1.9 %	2.1 %	1.1 %	14.2 %	3.1 %	3.8 %	3.3 %	5.7 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.656 ppb	57.511 ppb	60.363 ppb	6,199.288 ppb	62.237 ppb	61.390 ppb	60.433 ppb	59.631 ppb	98.751 %
Concentration per Run 1	60.941 ppb	59.478 ppb	62.008 ppb	6,355.484 ppb	64.423 ppb	63.874 ppb	64.248 ppb	60.956 ppb	90.458 %
Concentration per Run 2	54.134 ppb	55.005 ppb	57.973 ppb	6,108.459 ppb	60.488 ppb	59.552 ppb	58.977 ppb	58.086 ppb	99.965 %
Concentration per Run 3	57.892 ppb	58.050 ppb	61.108 ppb	6,133.921 ppb	61.801 ppb	60.742 ppb	58.074 ppb	59.852 ppb	105.829 %
Recovery Percentage 1	96.093 %	95.852 %	100.605 %	103.321 %	103.728 %	102.316 %	100.722 %	99.386 %	
Concentration RSD	5.9 %	4.0 %	3.5 %	2.2 %	3.2 %	3.6 %	5.5 %	2.4 %	7.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.104 ppb	57.665 ppb	57.187 ppb	60.231 ppb	93.070 %	58.983 ppb	59.114 ppb	95.716 %	60.542 ppb
Concentration per Run 1	63.029 ppb	55.874 ppb	57.110 ppb	59.418 ppb	91.789 %	59.451 ppb	60.517 ppb	90.781 %	60.692 ppb
Concentration per Run 2	57.771 ppb	56.208 ppb	55.525 ppb	60.347 ppb	92.266 %	59.412 ppb	58.599 ppb	93.424 %	60.612 ppb
Concentration per Run 3	59.512 ppb	60.913 ppb	58.926 ppb	60.927 ppb	95.154 %	58.086 ppb	58.227 ppb	102.944 %	60.322 ppb
Recovery Percentage 1	100.173 %	96.108 %	95.312 %	100.385 %		98.305 %	98.524 %		100.903 %
Concentration RSD	4.5 %	4.9 %	3.0 %	1.3 %	2.0 %	1.3 %	2.1 %	6.7 %	0.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.448 ppb	90.172 %	93.244 %	58.519 ppb	56.439 ppb	88.496 %
Concentration per Run 1	56.080 ppb	86.787 %	89.376 %	54.503 ppb	54.114 ppb	90.401 %
Concentration per Run 2	60.273 ppb	90.924 %	92.324 %	60.086 ppb	57.152 ppb	87.123 %
Concentration per Run 3	58.992 ppb	92.807 %	98.031 %	60.968 ppb	58.050 ppb	87.964 %
Recovery Percentage 1	97.414 %			97.532 %	94.064 %	
Concentration RSD	3.7 %	3.4 %	4.7 %	6.0 %	3.7 %	1.9 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	174	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 10:14:26 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	79.203 %	96.895 %	0.015 ppb	39.719 ppb	0.617 ppb	-0.042 ppb	9.195 ppb	2.378 ppb	82.606 %
Concentration per Run 1	81.281 %	95.437 %	0.011 ppb	40.134 ppb	1.423 ppb	0.217 ppb	14.847 ppb	-0.782 ppb	82.628 %
Concentration per Run 2	78.543 %	98.479 %	0.020 ppb	35.449 ppb	0.501 ppb	-0.193 ppb	1.557 ppb	8.278 ppb	82.500 %
Concentration per Run 3	77.784 %	96.768 %	0.013 ppb	43.574 ppb	-0.074 ppb	-0.151 ppb	11.179 ppb	-0.362 ppb	82.690 %
Recovery Percentage 1			3.004 %	39.719 %	0.881 %	-0.424 %	9.195 %	2.378 %	
Concentration RSD	2.3 %	1.6 %	31.2 %	10.3 %	122.5 %	532.7 %	74.7 %	215.0 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.054 ppb	0.010 ppb	0.019 ppb	10.916 ppb	0.001 ppb	0.043 ppb	0.011 ppb	0.199 ppb	99.358 %
Concentration per Run 1	-0.058 ppb	0.038 ppb	0.004 ppb	11.769 ppb	0.003 ppb	0.013 ppb	-0.004 ppb	0.213 ppb	97.211 %
Concentration per Run 2	-0.059 ppb	0.007 ppb	0.056 ppb	9.855 ppb	0.003 ppb	0.068 ppb	0.020 ppb	0.182 ppb	97.495 %
Concentration per Run 3	-0.045 ppb	-0.016 ppb	-0.002 ppb	11.124 ppb	-0.003 ppb	0.048 ppb	0.017 ppb	0.203 ppb	103.368 %
Recovery Percentage 1	-1.084 %	0.960 %	1.914 %	21.832 %	0.225 %	2.144 %	1.076 %	3.987 %	
Concentration RSD	14.4 %	280.1 %	167.0 %	8.9 %	320.9 %	64.6 %	123.0 %	7.9 %	3.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.326 ppb	0.255 ppb	-0.006 ppb	0.732 ppb	94.509 %	0.003 ppb	0.001 ppb	97.438 %	0.037 ppb
Concentration per Run 1	0.188 ppb	0.295 ppb	0.000 ppb	0.642 ppb	93.940 %	0.004 ppb	0.002 ppb	95.448 %	0.031 ppb
Concentration per Run 2	0.435 ppb	0.402 ppb	-0.010 ppb	0.727 ppb	93.940 %	0.004 ppb	0.000 ppb	94.909 %	0.044 ppb
Concentration per Run 3	0.356 ppb	0.068 ppb	-0.008 ppb	0.827 ppb	95.646 %	0.001 ppb	0.002 ppb	101.956 %	0.036 ppb
Recovery Percentage 1	65.279 %	5.096 %	-0.060 %	36.617 %		0.769 %	0.685 %		0.928 %
Concentration RSD	38.7 %	67.0 %	89.1 %	12.6 %	1.0 %	51.6 %	79.3 %	4.0 %	18.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.019 ppb	88.670 %	92.271 %	0.502 ppb	0.012 ppb	90.679 %
Concentration per Run 1	0.001 ppb	85.853 %	89.394 %	0.367 ppb	0.013 ppb	93.286 %
Concentration per Run 2	0.057 ppb	89.816 %	92.451 %	0.589 ppb	0.011 ppb	89.977 %
Concentration per Run 3	0.001 ppb	90.343 %	94.969 %	0.550 ppb	0.011 ppb	88.773 %
Recovery Percentage 1	3.896 %			50.222 %	1.171 %	
Concentration RSD	165.1 %	2.8 %	3.0 %	23.6 %	12.9 %	2.6 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	175	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/5/2023 10:19:10 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	82.205 %	102.028 %	61.517 ppb	5,925.064 ppb	6,043.906 ppb	64.406 ppb	6,136.785 ppb	5,878.617 ppb	94.238 %
Concentration per Run 1	84.522 %	94.487 %	61.569 ppb	6,496.764 ppb	6,373.480 ppb	64.237 ppb	5,998.794 ppb	5,998.306 ppb	94.013 %
Concentration per Run 2	81.822 %	107.795 %	61.969 ppb	5,967.136 ppb	5,723.555 ppb	58.102 ppb	5,766.590 ppb	5,617.033 ppb	95.307 %
Concentration per Run 3	80.271 %	103.802 %	61.013 ppb	5,311.293 ppb	6,034.684 ppb	70.879 ppb	6,644.970 ppb	6,020.511 ppb	93.393 %
Recovery Percentage 1			102.528 %	98.751 %	100.732 %	107.343 %	102.280 %	97.977 %	
Concentration RSD	2.6 %	6.7 %	0.8 %	10.0 %	5.4 %	9.9 %	7.4 %	3.9 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.937 ppb	56.779 ppb	59.309 ppb	6,113.887 ppb	60.251 ppb	60.566 ppb	58.565 ppb	57.873 ppb	100.917 %
Concentration per Run 1	60.483 ppb	58.292 ppb	57.993 ppb	6,320.743 ppb	61.048 ppb	61.714 ppb	57.757 ppb	56.914 ppb	99.363 %
Concentration per Run 2	57.412 ppb	55.062 ppb	58.849 ppb	5,906.649 ppb	59.980 ppb	59.214 ppb	59.454 ppb	58.464 ppb	98.095 %
Concentration per Run 3	58.916 ppb	56.982 ppb	61.084 ppb	6,114.268 ppb	59.725 ppb	60.771 ppb	58.483 ppb	58.239 ppb	105.292 %
Recovery Percentage 1	98.228 %	94.631 %	98.848 %	101.898 %	100.418 %	100.944 %	97.608 %	96.454 %	
Concentration RSD	2.6 %	2.9 %	2.7 %	3.4 %	1.2 %	2.1 %	1.5 %	1.4 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.019 ppb	56.735 ppb	57.360 ppb	61.256 ppb	91.530 %	59.296 ppb	58.867 ppb	96.163 %	60.581 ppb
Concentration per Run 1	57.504 ppb	55.322 ppb	55.417 ppb	58.022 ppb	89.934 %	59.789 ppb	59.658 ppb	92.549 %	59.936 ppb
Concentration per Run 2	59.729 ppb	57.163 ppb	57.223 ppb	63.671 ppb	89.745 %	59.734 ppb	59.265 ppb	93.613 %	60.920 ppb
Concentration per Run 3	59.825 ppb	57.721 ppb	59.439 ppb	62.076 ppb	94.912 %	58.366 ppb	57.679 ppb	102.328 %	60.886 ppb
Recovery Percentage 1	98.366 %	94.559 %	95.600 %	102.094 %		98.827 %	98.112 %		100.968 %
Concentration RSD	2.2 %	2.2 %	3.5 %	4.8 %	3.2 %	1.4 %	1.8 %	5.6 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.155 ppb	90.656 %	92.839 %	58.914 ppb	57.002 ppb	87.603 %
Concentration per Run 1	55.630 ppb	86.963 %	89.540 %	56.116 ppb	55.582 ppb	88.371 %
Concentration per Run 2	60.274 ppb	89.880 %	91.715 %	59.994 ppb	58.263 ppb	84.919 %
Concentration per Run 3	58.561 ppb	95.125 %	97.261 %	60.632 ppb	57.160 ppb	89.519 %
Recovery Percentage 1	96.925 %			98.190 %	95.003 %	
Concentration RSD	4.0 %	4.6 %	4.3 %	4.1 %	2.4 %	2.7 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index:	176	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/5/2023 10:23:54 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	81.360 %	97.972 %	0.012 ppb	39.340 ppb	1.435 ppb	-0.030 ppb	9.747 ppb	-1.248 ppb	87.128 %
Concentration per Run 1	82.995 %	98.099 %	0.011 ppb	38.327 ppb	1.954 ppb	-0.180 ppb	5.013 ppb	0.061 ppb	86.584 %
Concentration per Run 2	82.062 %	92.585 %	0.009 ppb	45.283 ppb	1.931 ppb	0.202 ppb	0.827 ppb	-1.691 ppb	87.396 %
Concentration per Run 3	79.025 %	103.232 %	0.017 ppb	34.411 ppb	0.420 ppb	-0.111 ppb	23.400 ppb	-2.114 ppb	87.405 %
Recovery Percentage 1			2.478 %	39.340 %	2.050 %	-0.297 %	9.747 %	-1.248 %	
Concentration RSD	2.6 %	5.4 %	33.8 %	14.0 %	61.3 %	686.3 %	123.2 %	92.4 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.052 ppb	0.014 ppb	-0.015 ppb	10.298 ppb	-0.001 ppb	0.067 ppb	0.006 ppb	0.202 ppb	98.161 %
Concentration per Run 1	-0.066 ppb	-0.011 ppb	-0.009 ppb	10.188 ppb	-0.004 ppb	0.080 ppb	0.014 ppb	0.196 ppb	95.716 %
Concentration per Run 2	-0.058 ppb	0.016 ppb	-0.009 ppb	10.518 ppb	0.003 ppb	0.034 ppb	-0.001 ppb	0.210 ppb	97.536 %
Concentration per Run 3	-0.031 ppb	0.037 ppb	-0.028 ppb	10.188 ppb	-0.002 ppb	0.087 ppb	0.004 ppb	0.201 ppb	101.232 %
Recovery Percentage 1	-1.036 %	1.384 %	-1.541 %	20.596 %	-0.154 %	3.350 %	0.565 %	4.047 %	
Concentration RSD	35.7 %	173.4 %	72.7 %	1.9 %	485.8 %	43.2 %	134.3 %	3.6 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.263 ppb	0.243 ppb	0.014 ppb	0.753 ppb	92.178 %	0.005 ppb	-0.001 ppb	95.450 %	0.047 ppb
Concentration per Run 1	0.282 ppb	0.309 ppb	0.023 ppb	0.657 ppb	91.854 %	0.007 ppb	-0.002 ppb	93.370 %	0.043 ppb
Concentration per Run 2	0.164 ppb	0.253 ppb	-0.005 ppb	0.814 ppb	92.364 %	0.006 ppb	0.000 ppb	95.191 %	0.050 ppb
Concentration per Run 3	0.342 ppb	0.167 ppb	0.023 ppb	0.787 ppb	92.317 %	0.003 ppb	-0.002 ppb	97.789 %	0.048 ppb
Recovery Percentage 1	52.520 %	4.855 %	0.138 %	37.631 %		1.316 %	-0.601 %		1.175 %
Concentration RSD	34.6 %	29.4 %	115.0 %	11.2 %	0.3 %	40.9 %	95.8 %	2.3 %	8.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.034 ppb	89.836 %	92.007 %	0.561 ppb	0.013 ppb	88.771 %
Concentration per Run 1	0.030 ppb	85.694 %	89.653 %	0.415 ppb	0.014 ppb	89.412 %
Concentration per Run 2	0.057 ppb	88.889 %	92.959 %	0.653 ppb	0.012 ppb	89.542 %
Concentration per Run 3	0.014 ppb	94.925 %	93.411 %	0.615 ppb	0.013 ppb	87.358 %
Recovery Percentage 1	6.721 %			56.095 %	1.315 %	
Concentration RSD	64.7 %	5.2 %	2.2 %	22.8 %	9.0 %	1.4 %

Alpha ICPMSQ Data

12/6/2023 5:16:00 AM

Analysis index: 177
Analysis label: LLCCV
Analysis started at: 12/5/2023 10:28:38 PM
User name ALPHALAB\Metals-Instrument
Rack 4
Vial 51
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	80.637 %	100.887 %	0.323 ppb	123.112 ppb	73.662 ppb	11.734 ppb	100.353 ppb	172.662 ppb	86.389 %
Concentration per Run 1	83.996 %	99.240 %	0.325 ppb	121.608 ppb	77.028 ppb	11.096 ppb	105.539 ppb	191.552 ppb	88.274 %
Concentration per Run 2	79.647 %	100.000 %	0.320 ppb	129.735 ppb	77.230 ppb	12.538 ppb	100.286 ppb	151.850 ppb	84.779 %
Concentration per Run 3	78.267 %	103.422 %	0.325 ppb	117.994 ppb	66.729 ppb	11.566 ppb	95.236 ppb	174.585 ppb	86.116 %
Recovery Percentage 1			64.651 %	123.112 %	105.232 %	117.336 %	100.353 %	172.662 %	
Concentration RSD	3.7 %	2.2 %	0.8 %	4.9 %	8.2 %	6.3 %	5.1 %	11.5 %	2.0 %

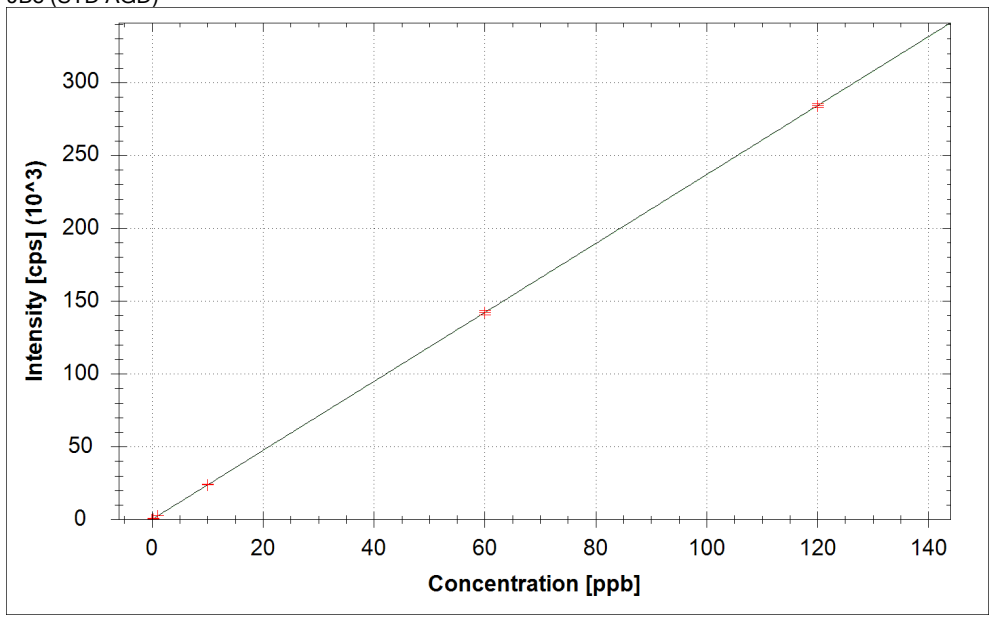
Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.652 ppb	0.454 ppb	4.651 ppb	524.714 ppb	0.500 ppb	1.932 ppb	1.895 ppb	10.894 ppb	98.283 %
Concentration per Run 1	4.585 ppb	0.509 ppb	4.129 ppb	522.970 ppb	0.555 ppb	1.915 ppb	1.861 ppb	10.773 ppb	94.874 %
Concentration per Run 2	4.629 ppb	0.389 ppb	4.588 ppb	512.613 ppb	0.456 ppb	1.919 ppb	1.913 ppb	11.138 ppb	101.930 %
Concentration per Run 3	4.741 ppb	0.465 ppb	5.238 ppb	538.559 ppb	0.488 ppb	1.961 ppb	1.912 ppb	10.772 ppb	98.047 %
Recovery Percentage 1	93.035 %	45.447 %	465.136 %	1,049.428 %	99.952 %	96.582 %	189.520 %	108.943 %	
Concentration RSD	1.7 %	13.3 %	12.0 %	2.5 %	10.1 %	1.3 %	1.6 %	1.9 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.705 ppb	5.281 ppb	0.487 ppb	2.081 ppb	92.070 %	0.188 ppb	0.172 ppb	96.106 %	2.046 ppb
Concentration per Run 1	0.737 ppb	4.988 ppb	0.467 ppb	1.916 ppb	92.860 %	0.200 ppb	0.191 ppb	95.104 %	1.926 ppb
Concentration per Run 2	0.688 ppb	6.213 ppb	0.497 ppb	2.157 ppb	92.985 %	0.178 ppb	0.153 ppb	97.636 %	2.092 ppb
Concentration per Run 3	0.690 ppb	4.643 ppb	0.496 ppb	2.172 ppb	90.366 %	0.185 ppb	0.172 ppb	95.577 %	2.122 ppb
Recovery Percentage 1	140.977 %	105.629 %	97.411 %	104.072 %		46.954 %	86.084 %		51.159 %
Concentration RSD	3.9 %	15.6 %	3.5 %	6.9 %	1.6 %	6.1 %	11.2 %	1.4 %	5.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.582 ppb	90.590 %	92.203 %	0.597 ppb	0.456 ppb	89.863 %
Concentration per Run 1	0.509 ppb	86.905 %	90.167 %	0.501 ppb	0.438 ppb	92.390 %
Concentration per Run 2	0.630 ppb	94.020 %	95.875 %	0.647 ppb	0.476 ppb	88.453 %
Concentration per Run 3	0.607 ppb	90.844 %	90.566 %	0.642 ppb	0.454 ppb	88.747 %
Recovery Percentage 1	116.335 %			119.342 %	91.229 %	
Concentration RSD	11.0 %	3.9 %	3.5 %	13.9 %	4.1 %	2.4 %

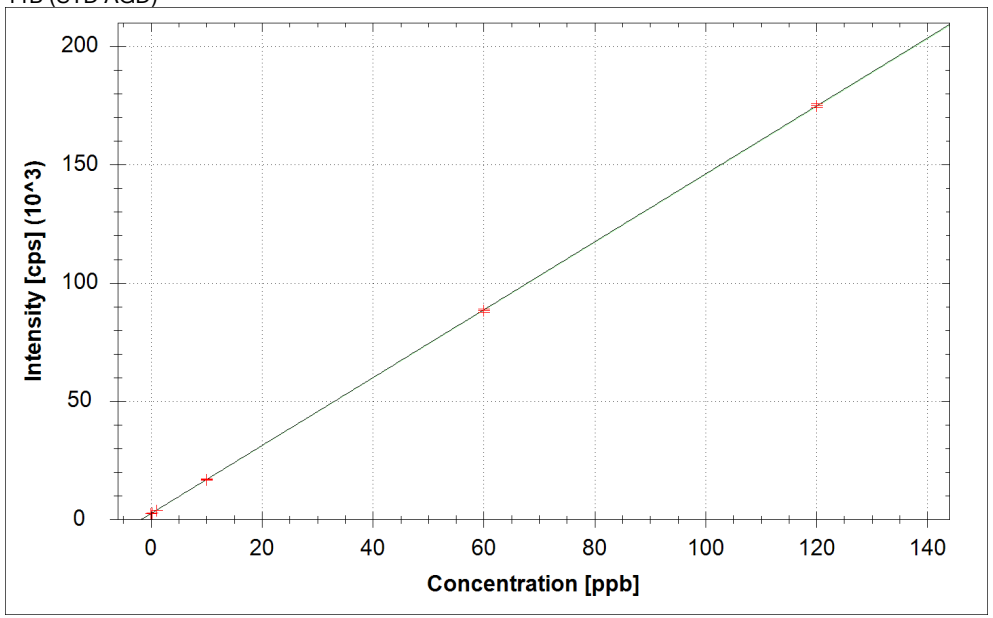
Calibration Curves:

9Be (STD AGD)



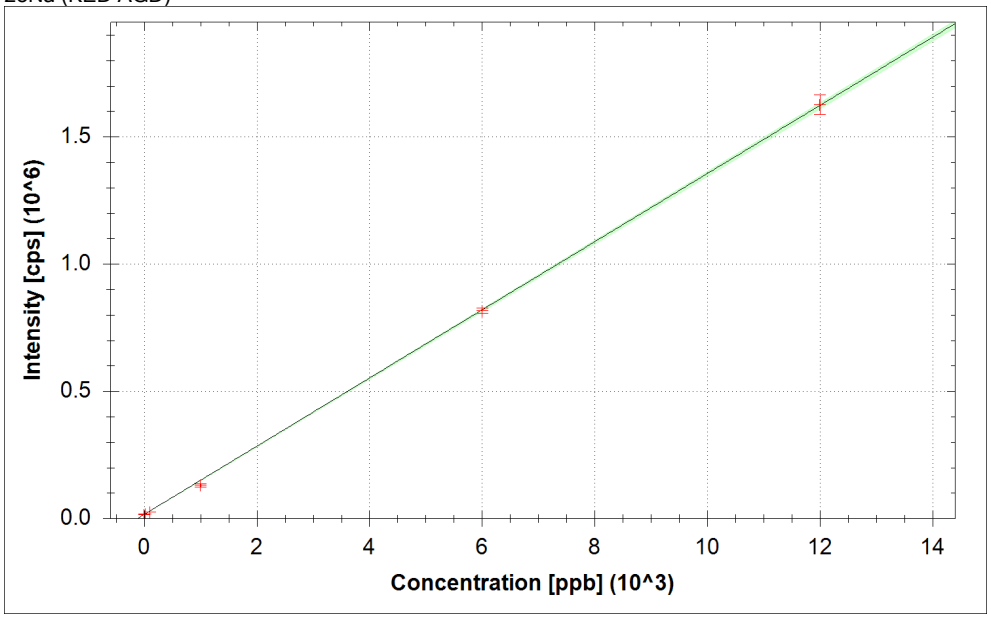
f(x) = 2367.2849*x + 34.2141
R² = 1.0000
BEC = 0.014 ppb
LoD = 0.0075 ppb

11B (STD AGD)



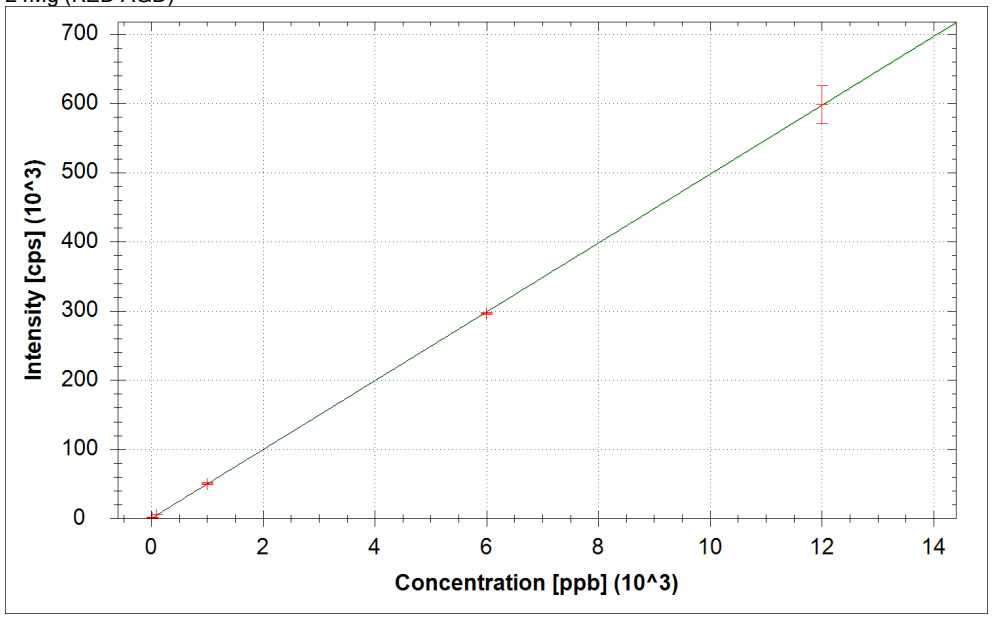
f(x) = 1435.5541*x + 2511.1600
R² = 1.0000
BEC = 1.749 ppb
LoD = 0.0472 ppb

23Na (KED AGD)



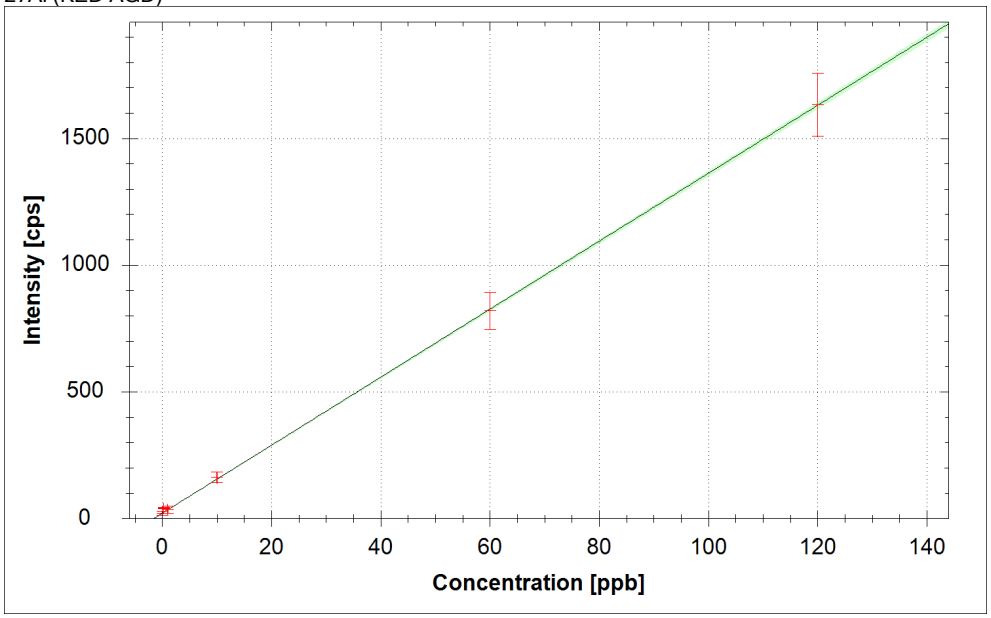
f(x) = 133.8799*x + 16003.2020
R² = 0.9998
BEC = 119.534 ppb
LoD = 12.9714 ppb

24Mg (KED AGD)



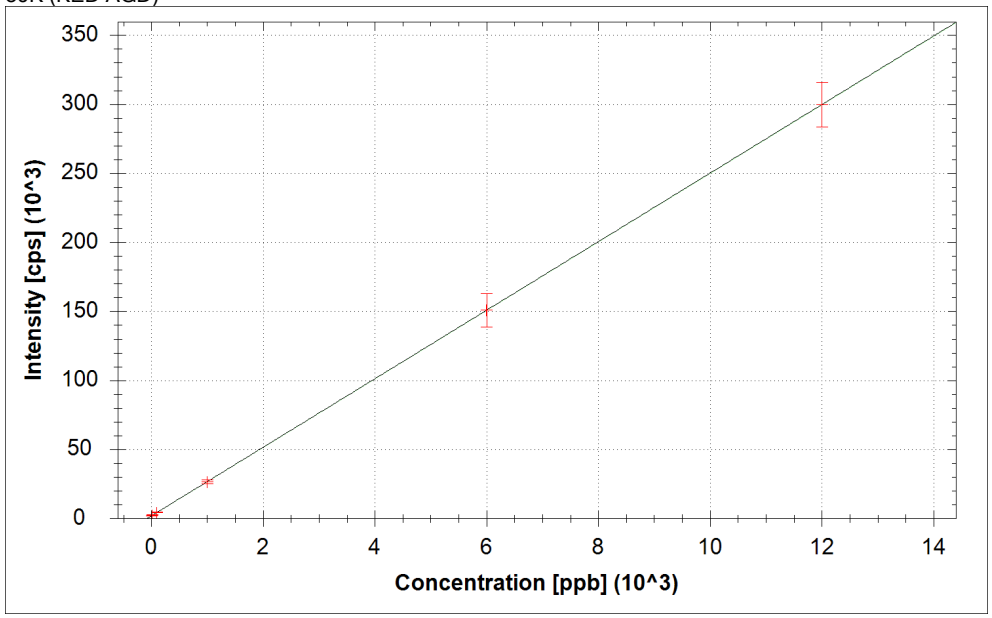
f(x) = 49.7457*x + 53.2077
R² = 1.0000
BEC = 1.070 ppb
LoD = 1.4323 ppb

27Al (KED AGD)



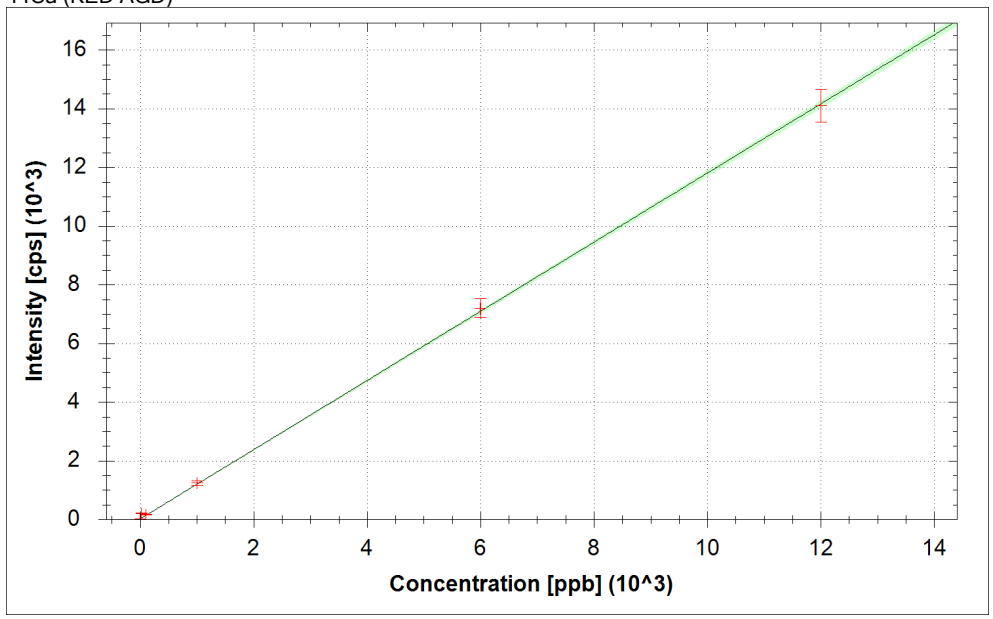
f(x) = 13.4093*x + 20.6288
R² = 0.9998
BEC = 1.538 ppb
LoD = 1.6749 ppb

39K (KED AGD)



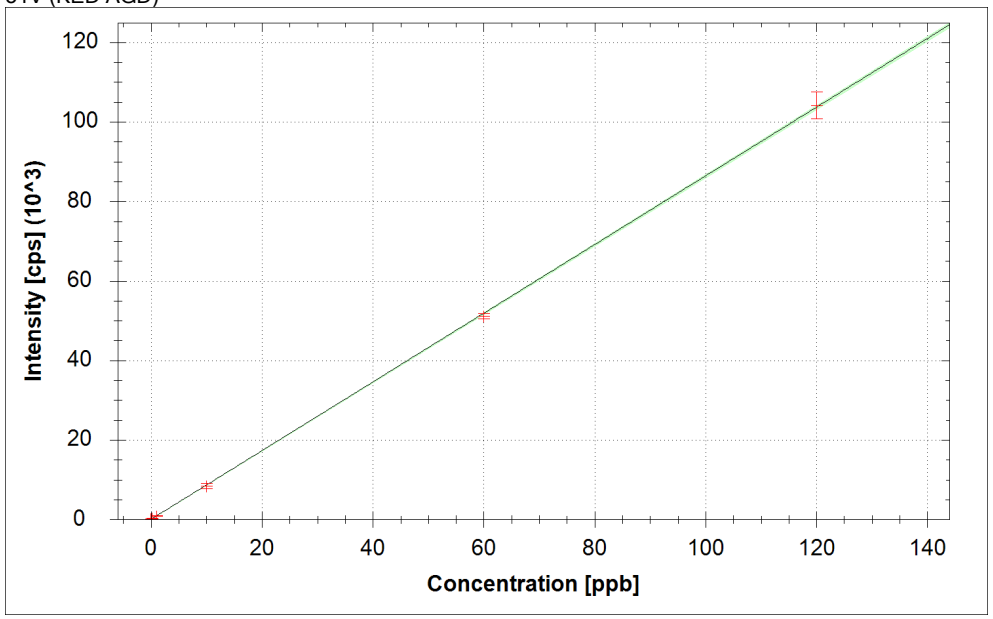
f(x) = 24.8215*x + 1859.4596
R² = 1.0000
BEC = 74.913 ppb
LoD = 13.5017 ppb

44Ca (KED AGD)



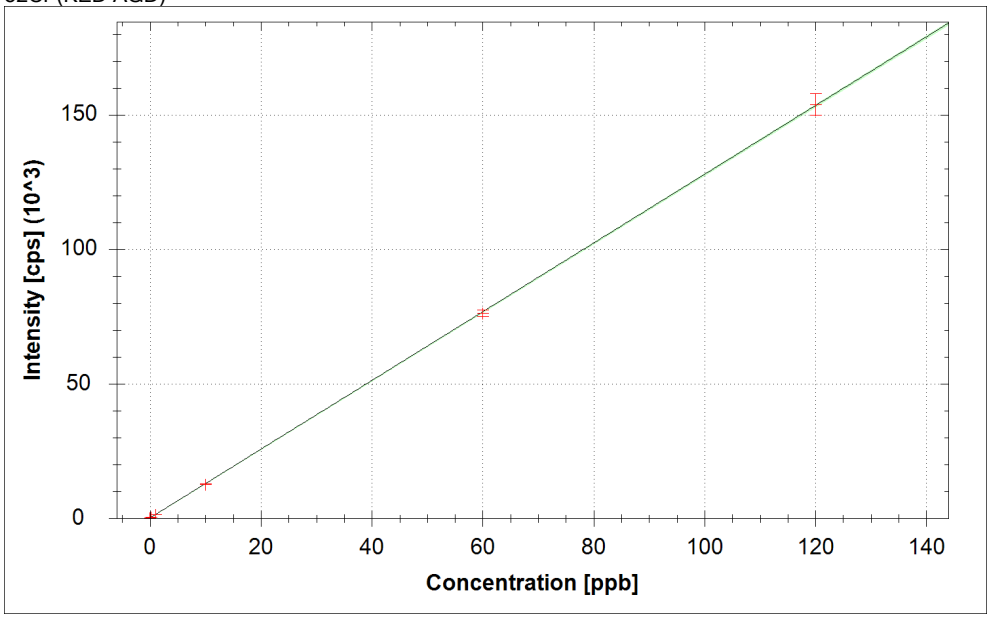
f(x) = 1.1781*x + 19.4463
R² = 0.9997
BEC = 16.507 ppb
LoD = 15.2051 ppb

51V (KED AGD)



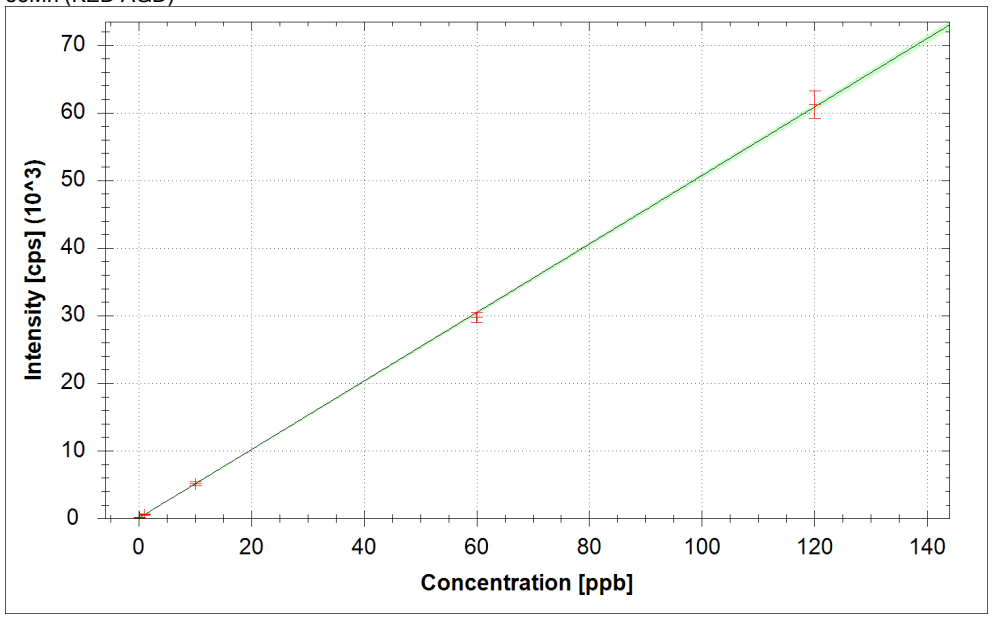
f(x) = 863.7102*x + 37.8466
R² = 0.9999
BEC = 0.044 ppb
LoD = 0.0490 ppb

52Cr (KED AGD)



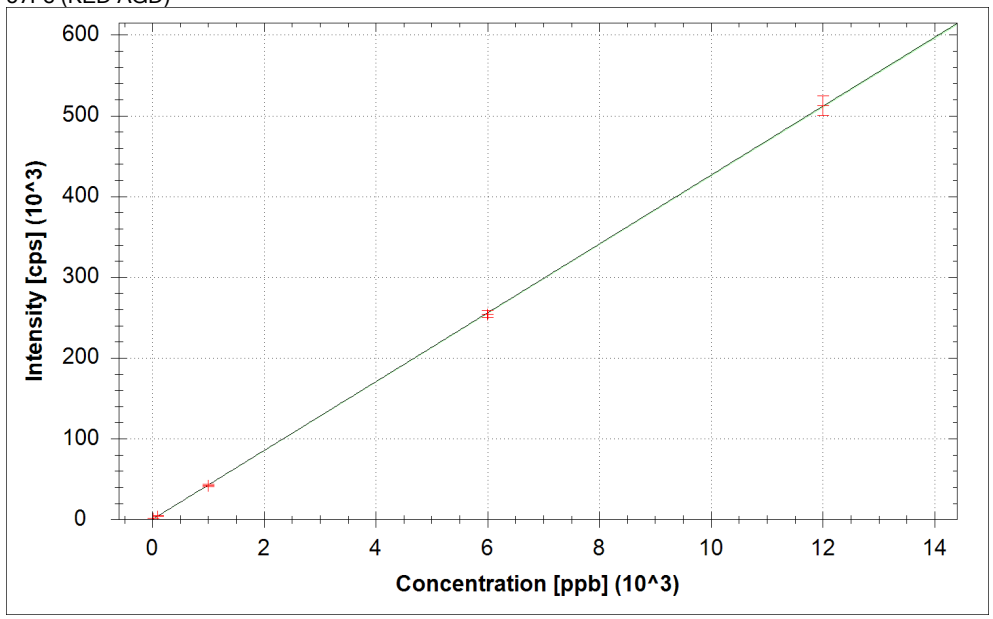
f(x) = 1276.6650*x + 220.0807
R² = 1.0000
BEC = 0.172 ppb
LoD = 0.0250 ppb

55Mn (KED AGD)



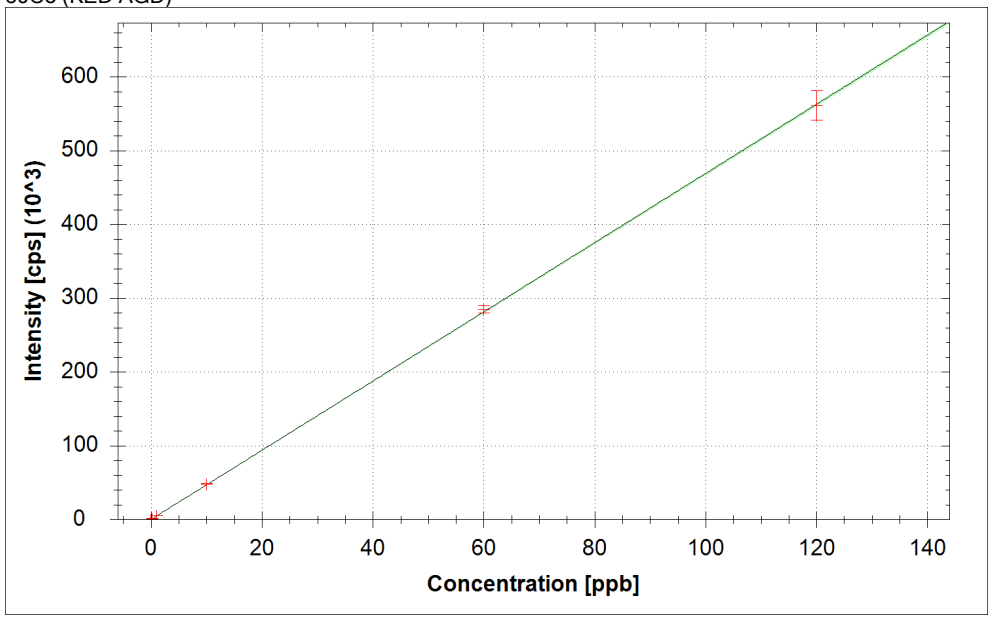
f(x) = 506.4263*x + 55.4169
R² = 0.9998
BEC = 0.109 ppb
LoD = 0.1559 ppb

57Fe (KED AGD)



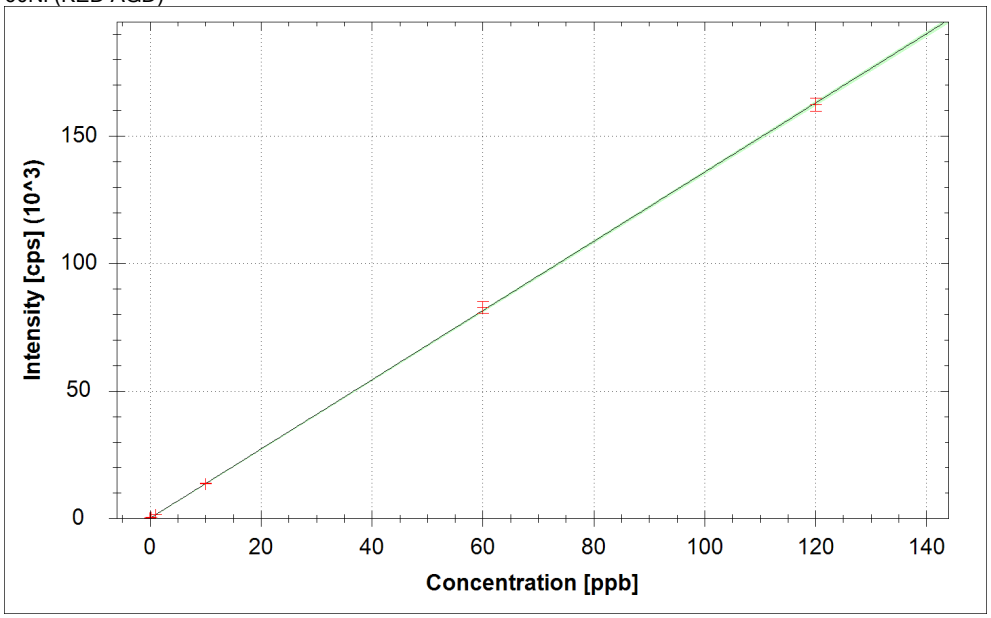
f(x) = 42.6252*x + 46.8953
R² = 1.0000
BEC = 1.100 ppb
LoD = 1.3103 ppb

59Co (KED AGD)



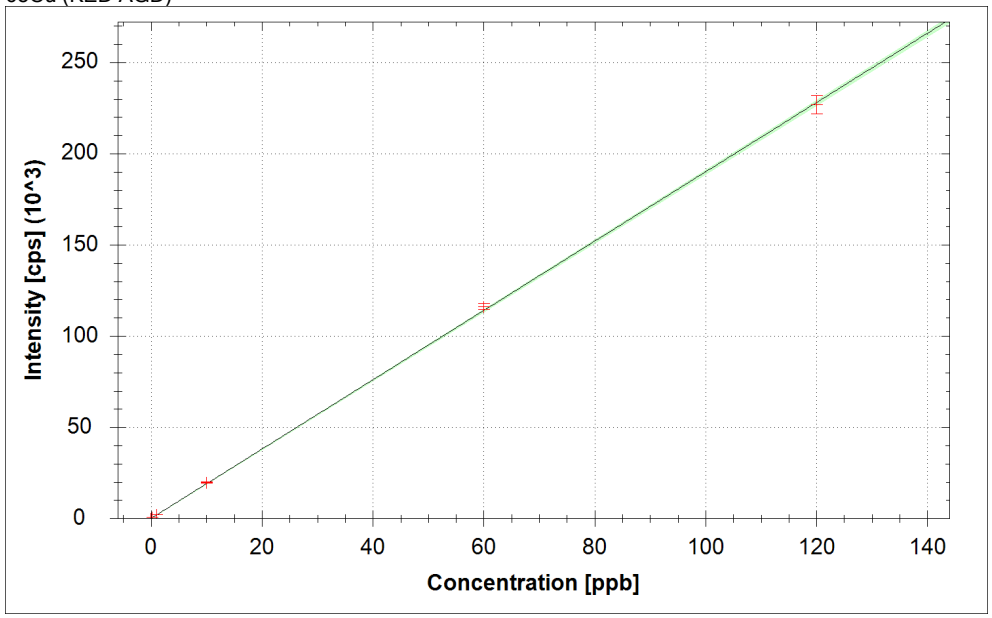
f(x) = 4688.9988*x + 22.0850
R² = 0.9999
BEC = 0.005 ppb
LoD = 0.0104 ppb

60Ni (KED AGD)



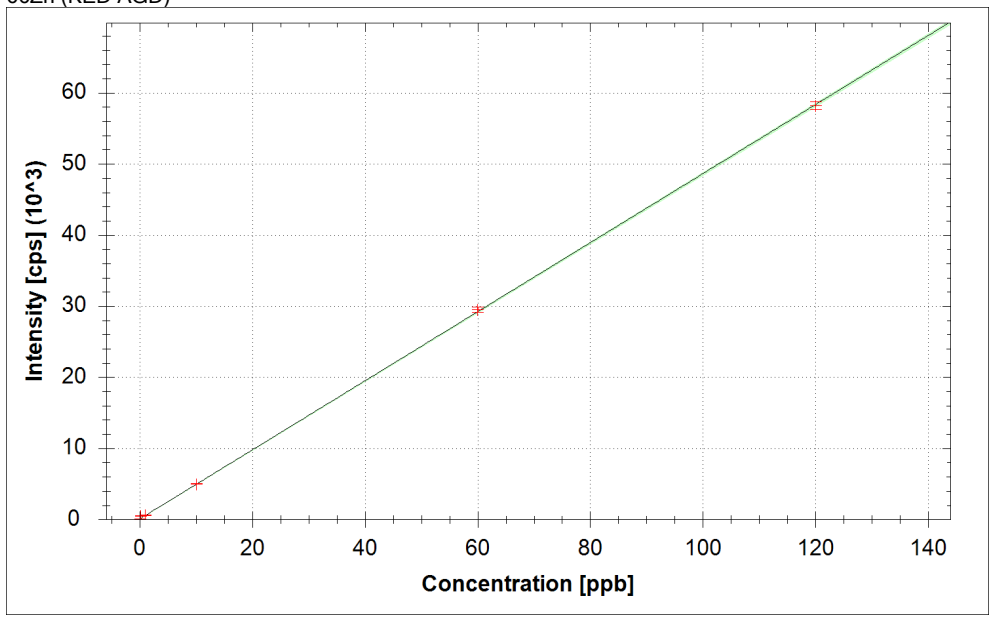
f(x) = 1356.9675*x + 82.5695
R² = 0.9999
BEC = 0.061 ppb
LoD = 0.1211 ppb

65Cu (KED AGD)



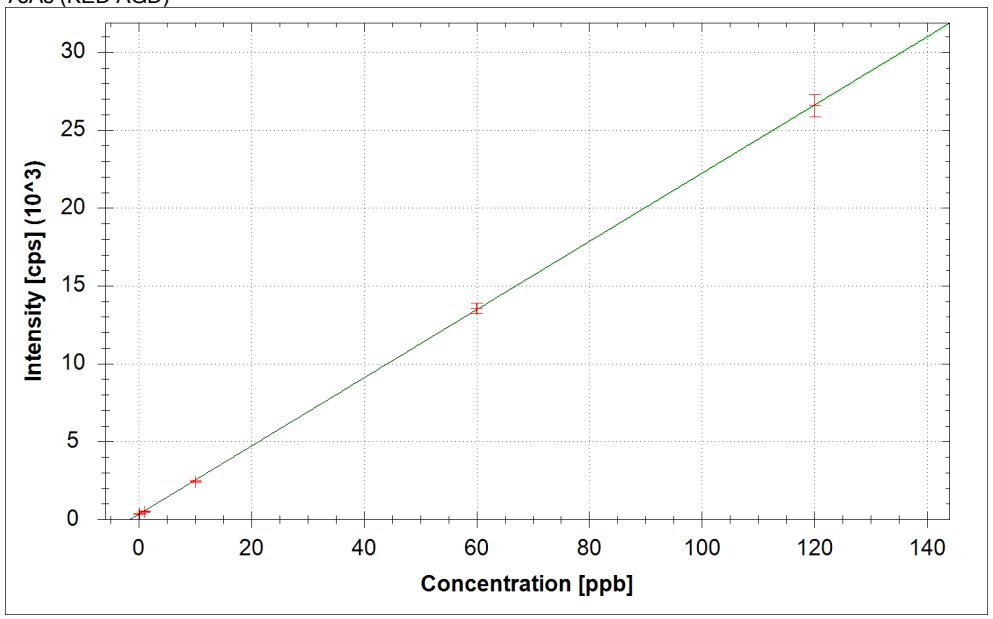
f(x) = 1899.3359*x + 49.2294
R² = 0.9999
BEC = 0.026 ppb
LoD = 0.0359 ppb

66Zn (KED AGD)



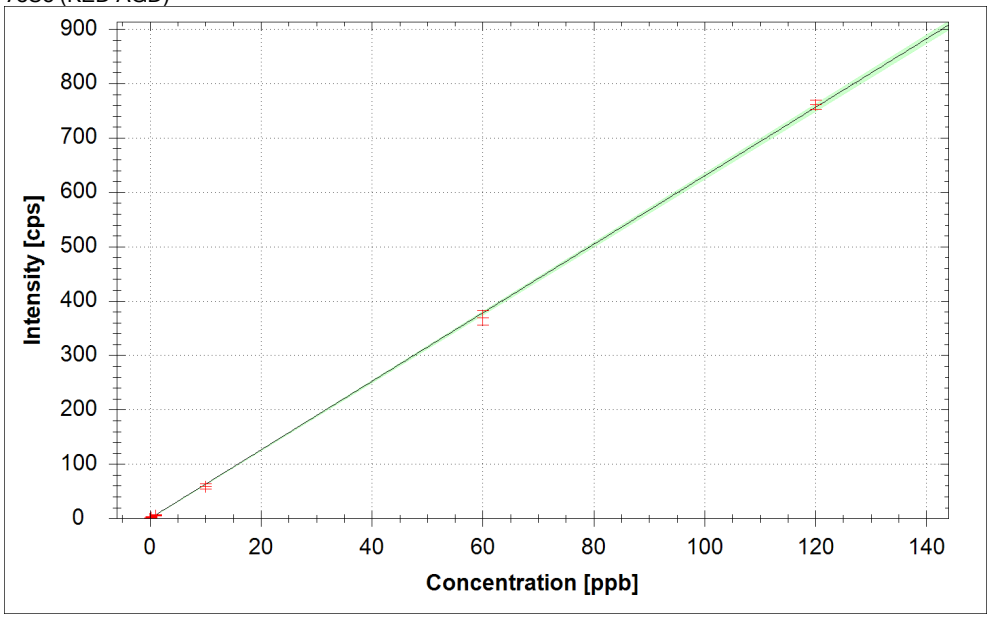
f(x) = 485.3882*x + 87.3343
R² = 0.9999
BEC = 0.180 ppb
LoD = 0.0876 ppb

75As (KED AGD)



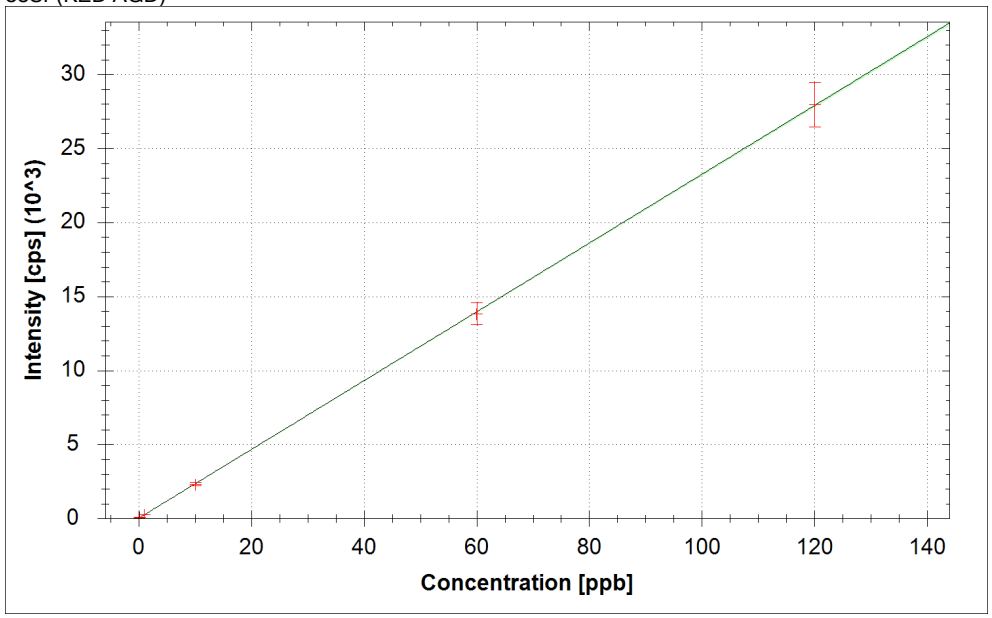
f(x) = 218.8795*x + 335.3105
R² = 1.0000
BEC = 1.532 ppb
LoD = 0.3928 ppb

78Se (KED AGD)



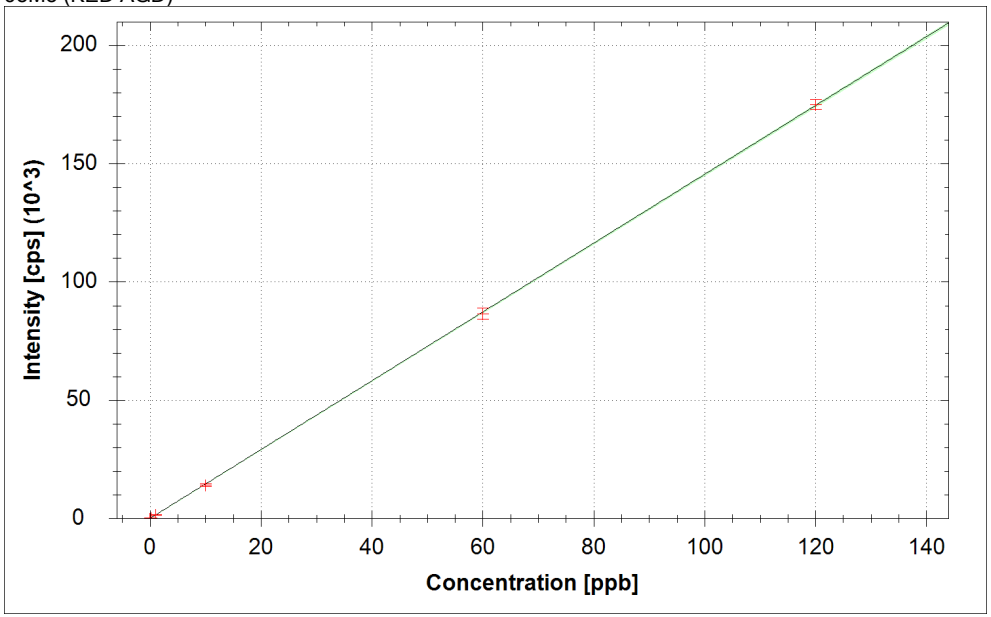
f(x) = 6.2984*x + 0.0938
R² = 0.9997
BEC = 0.015 ppb
LoD = 0.1929 ppb

88Sr (KED AGD)



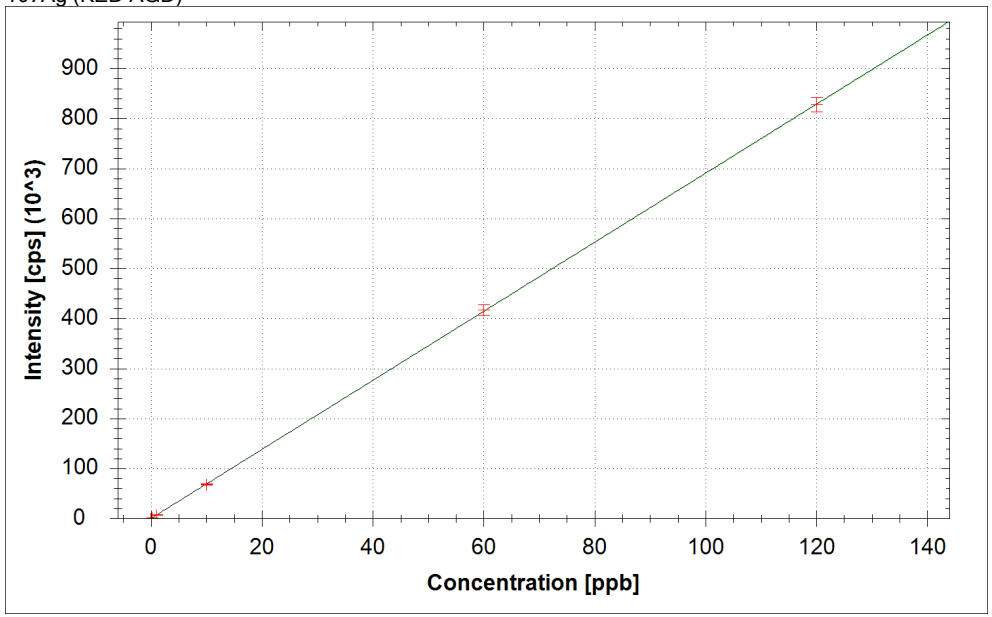
f(x) = 232.2585*x + 21.8481
R² = 1.0000
BEC = 0.094 ppb
LoD = 0.0158 ppb

95Mo (KED AGD)



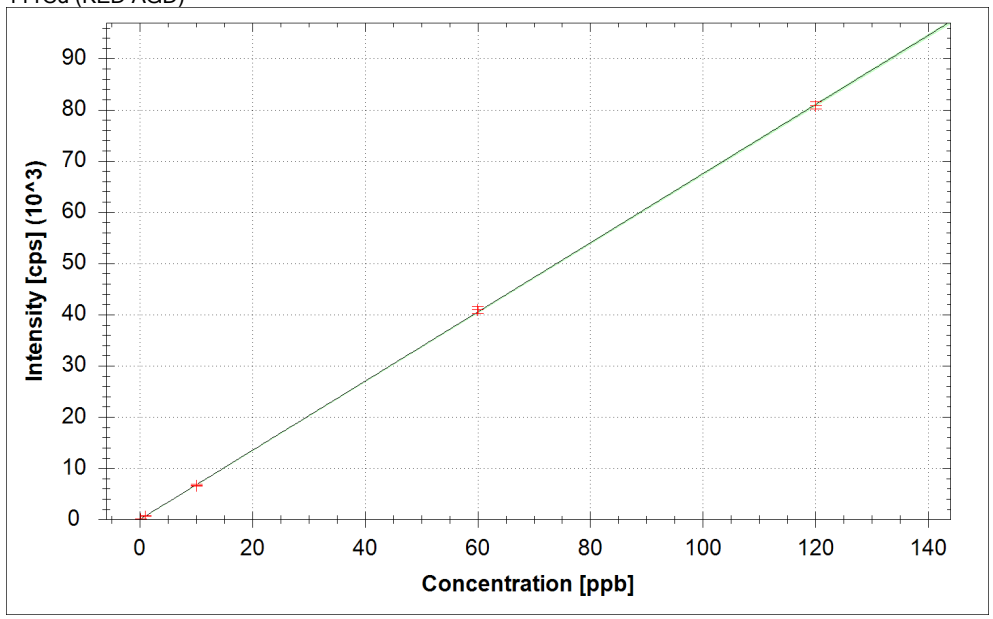
f(x) = 1453.4501*x + 48.7471
R² = 1.0000
BEC = 0.034 ppb
LoD = 0.0327 ppb

107Ag (KED AGD)



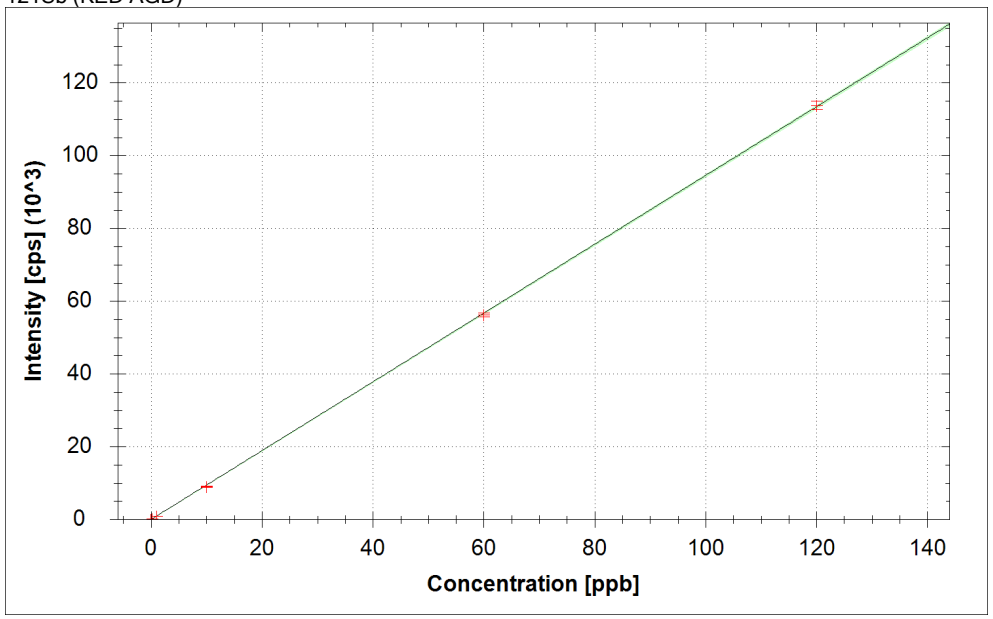
f(x) = 6906.6944*x + 10.1378
R² = 1.0000
BEC = 0.001 ppb
LoD = 0.0045 ppb

111Cd (KED AGD)



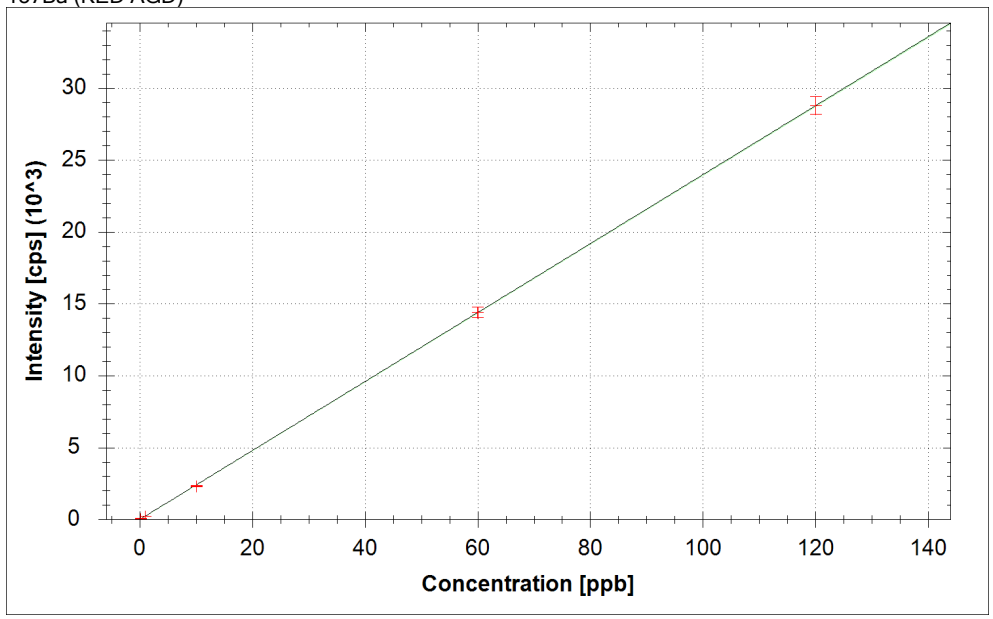
f(x) = 674.9435*x + 0.4448
R² = 1.0000
BEC = 0.001 ppb
LoD = 0.0034 ppb

121Sb (KED AGD)



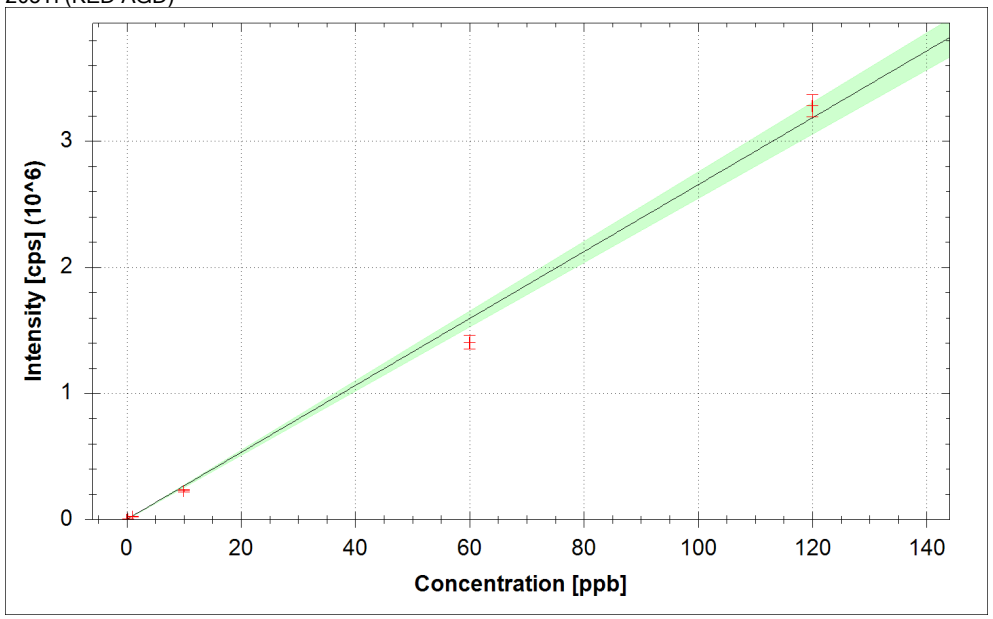
f(x) = 944.8284*x + 11.2789
R² = 0.9999
BEC = 0.012 ppb
LoD = 0.0147 ppb

137Ba (KED AGD)



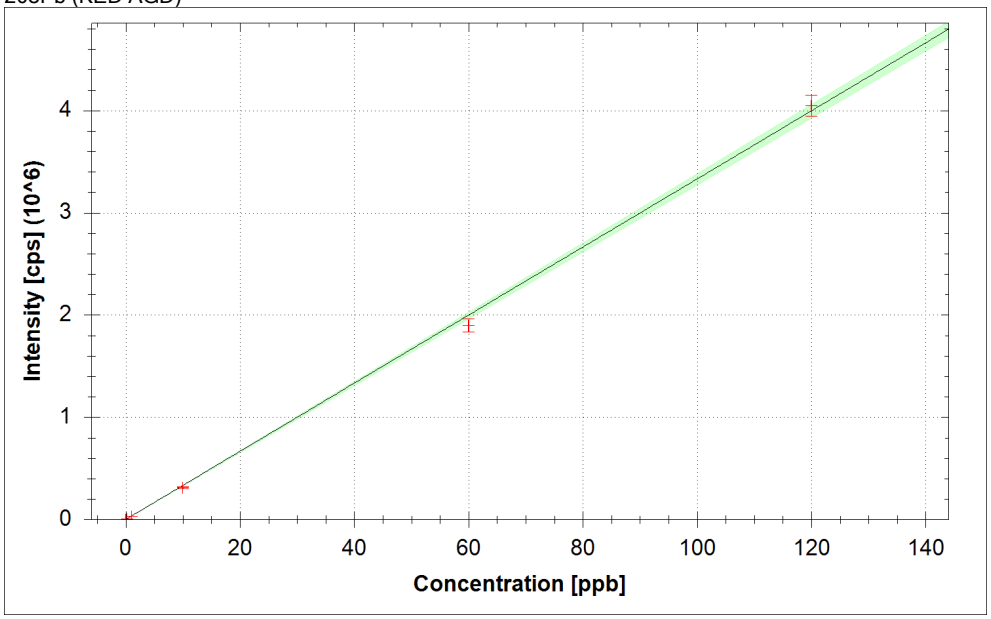
f(x) = 239.7261*x + 3.3693
R² = 1.0000
BEC = 0.014 ppb
LoD = 0.0730 ppb

205Tl (KED AGD)



f(x) = 26533.7955*x + 227.9585
R² = 0.9947
BEC = 0.009 ppb
LoD = 0.0101 ppb

208Pb (KED AGD)



f(x) = 33301.2568*x + 61.4966
R² = 0.9990
BEC = 0.002 ppb
LoD = 0.0018 ppb

Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 12/6/2023 5:22:50 AM
Total Dilution Factor 50000
Rack 0
Vial 2

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	104.612 %	2.3 %	
6Li (KED AGD)	119.910 %	3.7 %	
9Be (STD AGD)	0.204 ppb	8.7 %	0.200 ppb
11B (STD AGD)	0.120 ppb	46.9 %	0.200 ppb
23Na (KED AGD)	7.195 ppb	52.8 %	20.000 ppb
24Mg (KED AGD)	20.808 ppb	6.0 %	20.000 ppb
27Al (KED AGD)	1.481 ppb	12.9 %	0.200 ppb
39K (KED AGD)	23.022 ppb	18.2 %	20.000 ppb
44Ca (KED AGD)	153.457 ppb	6.0 %	20.000 ppb
45Sc (STD AGD)	109.165 %	1.3 %	
51V (KED AGD)	0.216 ppb	13.8 %	0.200 ppb
52Cr (KED AGD)	0.176 ppb	19.9 %	0.200 ppb
55Mn (KED AGD)	0.187 ppb	24.9 %	0.200 ppb
57Fe (KED AGD)	23.808 ppb	7.4 %	20.000 ppb
59Co (KED AGD)	0.211 ppb	12.2 %	0.200 ppb
60Ni (KED AGD)	0.220 ppb	0.4 %	0.200 ppb
65Cu (KED AGD)	0.275 ppb	4.0 %	0.200 ppb
66Zn (KED AGD)	0.831 ppb	3.9 %	0.200 ppb
74Ge (KED AGD)	117.750 %	3.5 %	
75As (KED AGD)	0.053 ppb	68.9 %	0.200 ppb
78Se (KED AGD)	0.240 ppb	86.7 %	0.200 ppb
88Sr (KED AGD)	0.247 ppb	3.7 %	0.200 ppb
95Mo (KED AGD)	0.178 ppb	10.8 %	0.200 ppb
103Rh (KED AGD)	118.968 %	2.9 %	
107Ag (KED AGD)	0.206 ppb	3.9 %	0.200 ppb
111Cd (KED AGD)	0.193 ppb	9.4 %	0.200 ppb
115In (KED AGD)	117.251 %	3.5 %	
121Sb (KED AGD)	0.141 ppb	9.8 %	0.200 ppb
137Ba (KED AGD)	0.216 ppb	15.3 %	0.200 ppb
159Tb (KED AGD)	115.983 %	1.7 %	
175Lu (KED AGD)	115.418 %	3.3 %	
205Tl (KED AGD)	0.162 ppb	4.5 %	0.200 ppb
208Pb (KED AGD)	0.195 ppb	7.7 %	0.200 ppb
209Bi (KED AGD)	124.748 %	4.8 %	

Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 12/6/2023 5:27:27 AM
Total Dilution Factor 10000
Rack 0
Vial 3

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	103.392 %	2.0 %	
6Li (KED AGD)	119.781 %	2.0 %	
9Be (STD AGD)	1.010 ppb	1.9 %	1.000 ppb
11B (STD AGD)	0.890 ppb	4.6 %	1.000 ppb
23Na (KED AGD)	72.201 ppb	2.5 %	100.000 ppb
24Mg (KED AGD)	103.502 ppb	3.5 %	100.000 ppb
27Al (KED AGD)	1.033 ppb	103.8 %	1.000 ppb
39K (KED AGD)	98.937 ppb	8.2 %	100.000 ppb
44Ca (KED AGD)	124.653 ppb	7.2 %	100.000 ppb
45Sc (STD AGD)	107.822 %	0.6 %	
51V (KED AGD)	0.946 ppb	10.6 %	1.000 ppb
52Cr (KED AGD)	0.960 ppb	3.2 %	1.000 ppb
55Mn (KED AGD)	1.016 ppb	17.5 %	1.000 ppb
57Fe (KED AGD)	97.477 ppb	7.7 %	100.000 ppb
59Co (KED AGD)	1.023 ppb	2.1 %	1.000 ppb
60Ni (KED AGD)	0.991 ppb	5.1 %	1.000 ppb
65Cu (KED AGD)	1.020 ppb	4.5 %	1.000 ppb
66Zn (KED AGD)	1.037 ppb	8.5 %	1.000 ppb
74Ge (KED AGD)	117.661 %	7.7 %	
75As (KED AGD)	0.747 ppb	21.1 %	1.000 ppb
78Se (KED AGD)	0.915 ppb	16.8 %	1.000 ppb
88Sr (KED AGD)	0.934 ppb	1.0 %	1.000 ppb
95Mo (KED AGD)	0.969 ppb	7.3 %	1.000 ppb
103Rh (KED AGD)	119.420 %	2.4 %	
107Ag (KED AGD)	0.978 ppb	4.0 %	1.000 ppb
111Cd (KED AGD)	0.970 ppb	10.8 %	1.000 ppb
115In (KED AGD)	117.421 %	4.7 %	
121Sb (KED AGD)	0.866 ppb	4.7 %	1.000 ppb
137Ba (KED AGD)	0.902 ppb	3.0 %	1.000 ppb
159Tb (KED AGD)	116.414 %	2.4 %	
175Lu (KED AGD)	113.692 %	3.1 %	
205Tl (KED AGD)	0.851 ppb	4.3 %	1.000 ppb
208Pb (KED AGD)	0.933 ppb	3.6 %	1.000 ppb
209Bi (KED AGD)	119.190 %	3.2 %	

Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 12/6/2023 5:32:05 AM
Total Dilution Factor 1000
Rack 0
Vial 4

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	102.367 %	1.1 %	
6Li (KED AGD)	120.554 %	4.3 %	
9Be (STD AGD)	10.059 ppb	0.5 %	10.000 ppb
11B (STD AGD)	9.960 ppb	1.3 %	10.000 ppb
23Na (KED AGD)	853.252 ppb	5.7 %	1,000.000 ppb
24Mg (KED AGD)	1,008.605 ppb	3.1 %	1,000.000 ppb
27Al (KED AGD)	10.494 ppb	14.5 %	10.000 ppb
39K (KED AGD)	993.618 ppb	5.9 %	1,000.000 ppb
44Ca (KED AGD)	1,032.691 ppb	5.9 %	1,000.000 ppb
45Sc (STD AGD)	107.809 %	1.2 %	
51V (KED AGD)	9.643 ppb	7.7 %	10.000 ppb
52Cr (KED AGD)	9.740 ppb	1.1 %	10.000 ppb
55Mn (KED AGD)	9.970 ppb	6.0 %	10.000 ppb
57Fe (KED AGD)	988.691 ppb	3.5 %	1,000.000 ppb
59Co (KED AGD)	10.251 ppb	1.1 %	10.000 ppb
60Ni (KED AGD)	10.019 ppb	0.3 %	10.000 ppb
65Cu (KED AGD)	10.281 ppb	1.6 %	10.000 ppb
66Zn (KED AGD)	10.096 ppb	1.0 %	10.000 ppb
74Ge (KED AGD)	120.333 %	1.2 %	
75As (KED AGD)	9.568 ppb	4.6 %	10.000 ppb
78Se (KED AGD)	9.263 ppb	7.9 %	10.000 ppb
88Sr (KED AGD)	9.826 ppb	5.2 %	10.000 ppb
95Mo (KED AGD)	9.624 ppb	4.4 %	10.000 ppb
103Rh (KED AGD)	119.416 %	2.5 %	
107Ag (KED AGD)	9.882 ppb	2.2 %	10.000 ppb
111Cd (KED AGD)	9.899 ppb	2.7 %	10.000 ppb
115In (KED AGD)	119.198 %	4.2 %	
121Sb (KED AGD)	9.478 ppb	2.6 %	10.000 ppb
137Ba (KED AGD)	9.652 ppb	1.8 %	10.000 ppb
159Tb (KED AGD)	117.497 %	3.1 %	
175Lu (KED AGD)	116.090 %	4.0 %	
205Tl (KED AGD)	8.521 ppb	4.1 %	10.000 ppb
208Pb (KED AGD)	9.362 ppb	2.9 %	10.000 ppb
209Bi (KED AGD)	122.678 %	3.8 %	

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 12/6/2023 5:36:44 AM
Total Dilution Factor 166.6666666
Rack 0
Vial 5

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	101.275 %	3.6 %	
6Li (KED AGD)	119.717 %	2.5 %	
9Be (STD AGD)	60.000 ppb	1.1 %	60.000 ppb
11B (STD AGD)	59.759 ppb	0.8 %	60.000 ppb
23Na (KED AGD)	5,971.489 ppb	1.3 %	6,000.000 ppb
24Mg (KED AGD)	5,954.075 ppb	0.5 %	6,000.000 ppb
27Al (KED AGD)	59.492 ppb	9.3 %	60.000 ppb
39K (KED AGD)	6,004.622 ppb	8.1 %	6,000.000 ppb
44Ca (KED AGD)	6,091.453 ppb	4.5 %	6,000.000 ppb
45Sc (STD AGD)	116.357 %	2.3 %	
51V (KED AGD)	59.146 ppb	1.3 %	60.000 ppb
52Cr (KED AGD)	59.491 ppb	1.6 %	60.000 ppb
55Mn (KED AGD)	58.559 ppb	2.4 %	60.000 ppb
57Fe (KED AGD)	5,964.181 ppb	1.8 %	6,000.000 ppb
59Co (KED AGD)	60.678 ppb	1.7 %	60.000 ppb
60Ni (KED AGD)	60.917 ppb	2.8 %	60.000 ppb
65Cu (KED AGD)	61.122 ppb	1.5 %	60.000 ppb
66Zn (KED AGD)	60.551 ppb	1.2 %	60.000 ppb
74Ge (KED AGD)	117.955 %	0.9 %	
75As (KED AGD)	60.387 ppb	2.4 %	60.000 ppb
78Se (KED AGD)	58.510 ppb	3.6 %	60.000 ppb
88Sr (KED AGD)	59.474 ppb	5.4 %	60.000 ppb
95Mo (KED AGD)	59.503 ppb	2.6 %	60.000 ppb
103Rh (KED AGD)	117.482 %	3.2 %	
107Ag (KED AGD)	60.328 ppb	2.6 %	60.000 ppb
111Cd (KED AGD)	60.590 ppb	1.8 %	60.000 ppb
115In (KED AGD)	115.355 %	3.7 %	
121Sb (KED AGD)	59.461 ppb	1.0 %	60.000 ppb
137Ba (KED AGD)	59.984 ppb	2.6 %	60.000 ppb
159Tb (KED AGD)	117.292 %	2.8 %	
175Lu (KED AGD)	115.847 %	3.5 %	
205Tl (KED AGD)	52.923 ppb	3.9 %	60.000 ppb
208Pb (KED AGD)	57.012 ppb	3.3 %	60.000 ppb
209Bi (KED AGD)	120.340 %	2.8 %	

Standards:

Analysis Index: 8
Analysis Name: 120/12000 Cal
Analysis Type: STD
Analysis Started at: 12/6/2023 5:41:23 AM
Total Dilution Factor 83.33333333
Rack 0
Vial 6

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	100.582 %	2.7 %	
6Li (KED AGD)	117.977 %	3.3 %	
9Be (STD AGD)	119.995 ppb	0.4 %	120.000 ppb
11B (STD AGD)	120.125 ppb	0.5 %	120.000 ppb
23Na (KED AGD)	12,026.737 ppb	2.4 %	12,000.000 ppb
24Mg (KED AGD)	12,022.215 ppb	4.6 %	12,000.000 ppb
27Al (KED AGD)	120.211 ppb	7.7 %	120.000 ppb
39K (KED AGD)	11,998.225 ppb	5.5 %	12,000.000 ppb
44Ca (KED AGD)	11,951.121 ppb	4.0 %	12,000.000 ppb
45Sc (STD AGD)	124.225 %	1.1 %	
51V (KED AGD)	120.457 ppb	3.2 %	120.000 ppb
52Cr (KED AGD)	120.276 ppb	2.6 %	120.000 ppb
55Mn (KED AGD)	120.723 ppb	3.3 %	120.000 ppb
57Fe (KED AGD)	12,018.867 ppb	2.4 %	12,000.000 ppb
59Co (KED AGD)	119.640 ppb	3.6 %	120.000 ppb
60Ni (KED AGD)	119.540 ppb	1.6 %	120.000 ppb
65Cu (KED AGD)	119.415 ppb	2.2 %	120.000 ppb
66Zn (KED AGD)	119.715 ppb	1.0 %	120.000 ppb
74Ge (KED AGD)	117.803 %	1.5 %	
75As (KED AGD)	119.845 ppb	2.7 %	120.000 ppb
78Se (KED AGD)	120.807 ppb	1.1 %	120.000 ppb
88Sr (KED AGD)	120.278 ppb	5.4 %	120.000 ppb
95Mo (KED AGD)	120.280 ppb	1.2 %	120.000 ppb
103Rh (KED AGD)	119.015 %	1.4 %	
107Ag (KED AGD)	119.846 ppb	1.7 %	120.000 ppb
111Cd (KED AGD)	119.713 ppb	0.9 %	120.000 ppb
115In (KED AGD)	116.469 %	5.8 %	
121Sb (KED AGD)	120.314 ppb	1.0 %	120.000 ppb
137Ba (KED AGD)	120.038 ppb	2.2 %	120.000 ppb
159Tb (KED AGD)	120.489 %	3.8 %	
175Lu (KED AGD)	119.227 %	2.7 %	
205Tl (KED AGD)	123.663 ppb	2.7 %	120.000 ppb
208Pb (KED AGD)	121.548 ppb	2.5 %	120.000 ppb
209Bi (KED AGD)	122.408 %	1.9 %	

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	1	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	12/6/2023 5:08:54 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	112.728 %	118.299 %	0.009 ppb	0.053 ppb	-10.082 ppb	2.670 ppb	0.828 ppb	-1.603 ppb	3.111 ppb
Concentration per Run 1	115.047 %	112.693 %	0.011 ppb	0.071 ppb	-8.518 ppb	3.478 ppb	0.506 ppb	-4.250 ppb	5.595 ppb
Concentration per Run 2	113.527 %	116.753 %	0.010 ppb	0.039 ppb	-8.852 ppb	2.182 ppb	1.138 ppb	-0.627 ppb	-0.043 ppb
Concentration per Run 3	109.611 %	125.452 %	0.006 ppb	0.049 ppb	-12.875 ppb	2.350 ppb	0.840 ppb	0.068 ppb	3.782 ppb
Concentration RSD	2.5 %	5.5 %	32.9 %	31.0 %	24.0 %	26.4 %	38.2 %	144.6 %	92.5 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	111.715 %	0.045 ppb	0.024 ppb	0.105 ppb	8.025 ppb	0.015 ppb	0.207 ppb	0.095 ppb	2.984 ppb
Concentration per Run 1	111.093 %	0.054 ppb	0.054 ppb	0.176 ppb	8.511 ppb	0.013 ppb	0.201 ppb	0.085 ppb	3.036 ppb
Concentration per Run 2	112.070 %	0.045 ppb	0.033 ppb	0.112 ppb	9.428 ppb	0.019 ppb	0.188 ppb	0.093 ppb	2.931 ppb
Concentration per Run 3	111.983 %	0.036 ppb	-0.014 ppb	0.027 ppb	6.137 ppb	0.012 ppb	0.233 ppb	0.106 ppb	2.985 ppb
Concentration RSD	0.5 %	19.4 %	143.9 %	71.1 %	21.2 %	25.1 %	11.2 %	10.8 %	1.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	115.636 %	-0.033 ppb	-0.016 ppb	0.014 ppb	0.021 ppb	114.857 %	0.006 ppb	0.005 ppb	117.008 %
Concentration per Run 1	109.978 %	0.012 ppb	-0.041 ppb	0.009 ppb	0.004 ppb	109.253 %	0.007 ppb	0.005 ppb	106.927 %
Concentration per Run 2	111.618 %	0.017 ppb	-0.021 ppb	0.019 ppb	0.033 ppb	110.708 %	0.005 ppb	0.003 ppb	113.983 %
Concentration per Run 3	125.313 %	-0.128 ppb	0.015 ppb	0.013 ppb	0.025 ppb	124.612 %	0.006 ppb	0.007 ppb	130.114 %
Concentration RSD	7.3 %	251.2 %	178.4 %	36.5 %	71.4 %	7.4 %	20.4 %	42.8 %	10.2 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.015 ppb	0.018 ppb	112.604 %	112.534 %	0.015 ppb	0.029 ppb	108.735 %
Concentration per Run 1	0.021 ppb	0.013 ppb	102.179 %	108.023 %	0.009 ppb	0.031 ppb	104.707 %
Concentration per Run 2	0.013 ppb	0.023 ppb	112.932 %	107.932 %	0.018 ppb	0.030 ppb	105.538 %
Concentration per Run 3	0.011 ppb	0.019 ppb	122.702 %	121.646 %	0.017 ppb	0.027 ppb	115.959 %
Concentration RSD	36.3 %	28.5 %	9.1 %	7.0 %	32.3 %	5.8 %	5.8 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	2	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CAL LOT #M22-1040	Rack	0		
Analysis started at:	12/6/2023 5:13:31 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	109.645 %	122.101 %	0.010 ppb	-0.033 ppb	-11.231 ppb	2.593 ppb	0.949 ppb	-3.048 ppb	6.901 ppb
Concentration per Run 1	112.555 %	121.585 %	0.006 ppb	-0.023 ppb	-15.273 ppb	2.148 ppb	1.222 ppb	-3.367 ppb	12.311 ppb
Concentration per Run 2	108.613 %	118.493 %	0.011 ppb	-0.029 ppb	-7.894 ppb	1.889 ppb	0.701 ppb	-5.003 ppb	5.217 ppb
Concentration per Run 3	107.766 %	126.225 %	0.014 ppb	-0.045 ppb	-10.525 ppb	3.741 ppb	0.923 ppb	-0.773 ppb	3.176 ppb
Concentration RSD	2.3 %	3.2 %	37.6 %	35.3 %	33.3 %	38.7 %	27.6 %	70.0 %	69.5 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	109.302 %	0.033 ppb	0.003 ppb	0.106 ppb	10.012 ppb	0.013 ppb	0.229 ppb	0.100 ppb	3.077 ppb
Concentration per Run 1	110.252 %	0.053 ppb	-0.011 ppb	0.089 ppb	10.301 ppb	0.010 ppb	0.232 ppb	0.095 ppb	3.146 ppb
Concentration per Run 2	107.653 %	0.029 ppb	-0.013 ppb	0.094 ppb	8.703 ppb	0.014 ppb	0.214 ppb	0.107 ppb	3.054 ppb
Concentration per Run 3	110.000 %	0.018 ppb	0.032 ppb	0.135 ppb	11.032 ppb	0.015 ppb	0.241 ppb	0.099 ppb	3.030 ppb
Concentration RSD	1.3 %	53.0 %	1,009.2 %	23.9 %	11.9 %	21.6 %	6.1 %	6.1 %	2.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	119.115 %	-0.171 ppb	0.088 ppb	0.012 ppb	0.009 ppb	121.866 %	0.004 ppb	0.003 ppb	123.013 %
Concentration per Run 1	118.603 %	-0.123 ppb	0.016 ppb	0.014 ppb	-0.003 ppb	120.217 %	0.005 ppb	0.004 ppb	120.747 %
Concentration per Run 2	115.801 %	-0.216 ppb	0.059 ppb	0.020 ppb	-0.003 ppb	122.111 %	0.005 ppb	0.001 ppb	120.243 %
Concentration per Run 3	122.942 %	-0.173 ppb	0.187 ppb	0.003 ppb	0.033 ppb	123.269 %	0.003 ppb	0.002 ppb	128.049 %
Concentration RSD	3.0 %	27.2 %	101.7 %	67.7 %	229.4 %	1.3 %	30.6 %	64.0 %	3.6 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.006 ppb	0.036 ppb	119.626 %	120.403 %	0.009 ppb	0.026 ppb	125.185 %
Concentration per Run 1	0.000 ppb	0.021 ppb	117.438 %	116.896 %	0.004 ppb	0.026 ppb	129.251 %
Concentration per Run 2	0.008 ppb	0.079 ppb	118.996 %	120.664 %	0.010 ppb	0.026 ppb	122.535 %
Concentration per Run 3	0.009 ppb	0.008 ppb	122.443 %	123.651 %	0.013 ppb	0.025 ppb	123.769 %
Concentration RSD	90.3 %	104.7 %	2.1 %	2.8 %	50.9 %	1.4 %	2.9 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	3	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Blank NTB ICPMSQ	Rack	4		
Analysis started at:	12/6/2023 5:18:08 AM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration RSD	0.0 %	0.0 %	0.2 %	0.0 %	0.0 %	0.4 %	0.4 %	0.1 %	0.3 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration per Run	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb
Concentration RSD	0.0 %	0.4 %	0.0 %	0.5 %	0.4 %	0.7 %	0.7 %	0.5 %	0.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.1 %	4.3 %	0.1 %	0.3 %	0.0 %	1.0 %	1.7 %	0.1 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.4 %	1.7 %	0.0 %	0.0 %	0.4 %	0.3 %	0.0 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	4	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	0.2/20 Cal	Rack	0		
Analysis started at:	12/6/2023 5:22:50 AM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	104.612 %	119.910 %	0.204 ppb	0.120 ppb	7.195 ppb	20.808 ppb	1.481 ppb	23.022 ppb	153.457 ppb
Concentration per Run 1	105.846 %	116.173 %	0.207 ppb	0.160 ppb	6.903 ppb	19.374 ppb	1.697 ppb	18.516 ppb	164.082 ppb
Concentration per Run 2	106.167 %	124.872 %	0.185 ppb	0.144 ppb	3.548 ppb	21.323 ppb	1.411 ppb	23.741 ppb	147.624 ppb
Concentration per Run 3	101.823 %	118.686 %	0.221 ppb	0.055 ppb	11.133 ppb	21.728 ppb	1.333 ppb	26.808 ppb	148.664 ppb
Concentration RSD	2.3 %	3.7 %	8.7 %	46.9 %	52.8 %	6.0 %	12.9 %	18.2 %	6.0 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	109.165 %	0.216 ppb	0.176 ppb	0.187 ppb	23.808 ppb	0.211 ppb	0.220 ppb	0.275 ppb	0.831 ppb
Concentration per Run 1	108.231 %	0.193 ppb	0.178 ppb	0.168 ppb	24.163 ppb	0.214 ppb	0.220 ppb	0.286 ppb	0.868 ppb
Concentration per Run 2	110.742 %	0.250 ppb	0.210 ppb	0.240 ppb	21.893 ppb	0.183 ppb	0.221 ppb	0.264 ppb	0.808 ppb
Concentration per Run 3	108.522 %	0.206 ppb	0.140 ppb	0.153 ppb	25.370 ppb	0.235 ppb	0.220 ppb	0.273 ppb	0.818 ppb
Concentration RSD	1.3 %	13.8 %	19.9 %	24.9 %	7.4 %	12.2 %	0.4 %	4.0 %	3.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	117.750 %	0.053 ppb	0.240 ppb	0.247 ppb	0.178 ppb	118.968 %	0.206 ppb	0.193 ppb	117.251 %
Concentration per Run 1	113.168 %	0.085 ppb	0.201 ppb	0.237 ppb	0.166 ppb	115.334 %	0.197 ppb	0.172 ppb	113.800 %
Concentration per Run 2	118.916 %	0.059 ppb	0.464 ppb	0.255 ppb	0.167 ppb	119.272 %	0.208 ppb	0.202 ppb	116.117 %
Concentration per Run 3	121.165 %	0.014 ppb	0.054 ppb	0.250 ppb	0.200 ppb	122.299 %	0.212 ppb	0.205 ppb	121.834 %
Concentration RSD	3.5 %	68.9 %	86.7 %	3.7 %	10.8 %	2.9 %	3.9 %	9.4 %	3.5 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.141 ppb	0.216 ppb	115.983 %	115.418 %	0.162 ppb	0.195 ppb	124.748 %
Concentration per Run 1	0.126 ppb	0.181 ppb	113.853 %	111.142 %	0.154 ppb	0.179 ppb	131.664 %
Concentration per Run 2	0.152 ppb	0.247 ppb	117.816 %	118.533 %	0.169 ppb	0.199 ppb	121.779 %
Concentration per Run 3	0.147 ppb	0.220 ppb	116.279 %	116.578 %	0.165 ppb	0.208 ppb	120.802 %
Concentration RSD	9.8 %	15.3 %	1.7 %	3.3 %	4.5 %	7.7 %	4.8 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 5
Analysis label: 1/100 Cal
Analysis started at: 12/6/2023 5:27:27 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 3
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	103.392 %	119.781 %	1.010 ppb	0.890 ppb	72.201 ppb	103.502 ppb	1.033 ppb	98.937 ppb	124.653 ppb
Concentration per Run 1	105.577 %	117.913 %	1.013 ppb	0.850 ppb	73.858 ppb	106.048 ppb	0.138 ppb	107.518 ppb	122.207 ppb
Concentration per Run 2	103.163 %	118.879 %	1.028 ppb	0.932 ppb	70.312 ppb	99.312 ppb	2.222 ppb	97.960 ppb	134.621 ppb
Concentration per Run 3	101.437 %	122.552 %	0.990 ppb	0.887 ppb	72.434 ppb	105.145 ppb	0.739 ppb	91.333 ppb	117.130 ppb
Concentration RSD	2.0 %	2.0 %	1.9 %	4.6 %	2.5 %	3.5 %	103.8 %	8.2 %	7.2 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	107.822 %	0.946 ppb	0.960 ppb	1.016 ppb	97.477 ppb	1.023 ppb	0.991 ppb	1.020 ppb	1.037 ppb
Concentration per Run 1	107.790 %	1.061 ppb	0.980 ppb	0.907 ppb	90.941 ppb	1.013 ppb	0.977 ppb	1.015 ppb	1.041 ppb
Concentration per Run 2	108.432 %	0.884 ppb	0.925 ppb	0.920 ppb	95.796 ppb	1.009 ppb	0.949 ppb	0.977 ppb	0.947 ppb
Concentration per Run 3	107.243 %	0.892 ppb	0.976 ppb	1.222 ppb	105.692 ppb	1.048 ppb	1.048 ppb	1.068 ppb	1.122 ppb
Concentration RSD	0.6 %	10.6 %	3.2 %	17.5 %	7.7 %	2.1 %	5.1 %	4.5 %	8.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	117.661 %	0.747 ppb	0.915 ppb	0.934 ppb	0.969 ppb	119.420 %	0.978 ppb	0.970 ppb	117.421 %
Concentration per Run 1	110.709 %	0.806 ppb	0.775 ppb	0.944 ppb	0.890 ppb	116.255 %	1.021 ppb	1.053 ppb	111.216 %
Concentration per Run 2	127.849 %	0.568 ppb	0.892 ppb	0.929 ppb	0.992 ppb	121.809 %	0.945 ppb	0.852 ppb	121.542 %
Concentration per Run 3	114.423 %	0.866 ppb	1.079 ppb	0.928 ppb	1.026 ppb	120.196 %	0.967 ppb	1.006 ppb	119.506 %
Concentration RSD	7.7 %	21.1 %	16.8 %	1.0 %	7.3 %	2.4 %	4.0 %	10.8 %	4.7 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.866 ppb	0.902 ppb	116.414 %	113.692 %	0.851 ppb	0.933 ppb	119.190 %
Concentration per Run 1	0.913 ppb	0.933 ppb	114.864 %	110.872 %	0.822 ppb	0.898 ppb	122.044 %
Concentration per Run 2	0.844 ppb	0.885 ppb	119.667 %	117.659 %	0.838 ppb	0.937 ppb	120.710 %
Concentration per Run 3	0.841 ppb	0.888 ppb	114.710 %	112.545 %	0.891 ppb	0.965 ppb	114.817 %
Concentration RSD	4.7 %	3.0 %	2.4 %	3.1 %	4.3 %	3.6 %	3.2 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	6	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	10/1000 Cal	Rack	0		
Analysis started at:	12/6/2023 5:32:05 AM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	102.367 %	120.554 %	10.059 ppb	9.960 ppb	853.252 ppb	1,008.605 ppb	10.494 ppb	993.618 ppb	1,032.691 ppb
Concentration per Run 1	103.219 %	121.779 %	9.998 ppb	9.872 ppb	825.261 ppb	979.925 ppb	9.449 ppb	967.930 ppb	963.147 ppb
Concentration per Run 2	102.831 %	114.820 %	10.077 ppb	9.893 ppb	909.893 ppb	1,041.775 ppb	12.245 ppb	1,060.286 ppb	1,077.820 ppb
Concentration per Run 3	101.049 %	125.065 %	10.102 ppb	10.115 ppb	824.603 ppb	1,004.115 ppb	9.789 ppb	952.637 ppb	1,057.105 ppb
Concentration RSD	1.1 %	4.3 %	0.5 %	1.3 %	5.7 %	3.1 %	14.5 %	5.9 %	5.9 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	107.809 %	9.643 ppb	9.740 ppb	9.970 ppb	988.691 ppb	10.251 ppb	10.019 ppb	10.281 ppb	10.096 ppb
Concentration per Run 1	108.147 %	9.321 ppb	9.869 ppb	9.352 ppb	956.068 ppb	10.131 ppb	10.042 ppb	10.137 ppb	10.151 ppb
Concentration per Run 2	108.893 %	10.496 ppb	9.669 ppb	10.537 ppb	1,024.155 ppb	10.351 ppb	10.027 ppb	10.462 ppb	10.151 ppb
Concentration per Run 3	106.388 %	9.112 ppb	9.683 ppb	10.021 ppb	985.850 ppb	10.271 ppb	9.986 ppb	10.245 ppb	9.985 ppb
Concentration RSD	1.2 %	7.7 %	1.1 %	6.0 %	3.5 %	1.1 %	0.3 %	1.6 %	1.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	120.333 %	9.568 ppb	9.263 ppb	9.826 ppb	9.624 ppb	119.416 %	9.882 ppb	9.899 ppb	119.198 %
Concentration per Run 1	118.674 %	9.654 ppb	9.218 ppb	9.526 ppb	10.089 ppb	116.474 %	10.086 ppb	10.209 ppb	114.994 %
Concentration per Run 2	121.447 %	9.959 ppb	10.013 ppb	10.412 ppb	9.260 ppb	122.530 %	9.648 ppb	9.712 ppb	124.750 %
Concentration per Run 3	120.876 %	9.092 ppb	8.559 ppb	9.541 ppb	9.522 ppb	119.243 %	9.913 ppb	9.777 ppb	117.850 %
Concentration RSD	1.2 %	4.6 %	7.9 %	5.2 %	4.4 %	2.5 %	2.2 %	2.7 %	4.2 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.478 ppb	9.652 ppb	117.497 %	116.090 %	8.521 ppb	9.362 ppb	122.678 %
Concentration per Run 1	9.534 ppb	9.526 ppb	114.139 %	112.028 %	8.166 ppb	9.046 ppb	128.073 %
Concentration per Run 2	9.208 ppb	9.855 ppb	121.272 %	121.131 %	8.538 ppb	9.506 ppb	120.615 %
Concentration per Run 3	9.691 ppb	9.575 ppb	117.080 %	115.111 %	8.859 ppb	9.534 ppb	119.346 %
Concentration RSD	2.6 %	1.8 %	3.1 %	4.0 %	4.1 %	2.9 %	3.8 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	7	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	60/6000 Cal	Rack	0		
Analysis started at:	12/6/2023 5:36:44 AM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	101.275 %	119.717 %	60.000 ppb	59.759 ppb	5,971.489 ppb	5,954.075 ppb	59.492 ppb	6,004.622 ppb	6,091.453 ppb
Concentration per Run 1	105.110 %	120.232 %	59.807 ppb	60.129 ppb	6,059.953 ppb	5,985.068 ppb	54.162 ppb	5,615.386 ppb	5,850.633 ppb
Concentration per Run 2	100.962 %	122.359 %	59.433 ppb	59.246 ppb	5,927.480 ppb	5,935.707 ppb	65.179 ppb	6,552.505 ppb	6,390.703 ppb
Concentration per Run 3	97.754 %	116.560 %	60.759 ppb	59.903 ppb	5,927.034 ppb	5,941.449 ppb	59.133 ppb	5,845.975 ppb	6,033.022 ppb
Concentration RSD	3.6 %	2.5 %	1.1 %	0.8 %	1.3 %	0.5 %	9.3 %	8.1 %	4.5 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	116.357 %	59.146 ppb	59.491 ppb	58.559 ppb	5,964.181 ppb	60.678 ppb	60.917 ppb	61.122 ppb	60.551 ppb
Concentration per Run 1	117.777 %	58.704 ppb	59.308 ppb	58.035 ppb	6,031.407 ppb	61.170 ppb	60.792 ppb	62.148 ppb	60.037 ppb
Concentration per Run 2	118.010 %	60.050 ppb	60.529 ppb	60.171 ppb	6,022.063 ppb	61.346 ppb	62.699 ppb	60.555 ppb	61.380 ppb
Concentration per Run 3	113.285 %	58.685 ppb	58.637 ppb	57.471 ppb	5,839.072 ppb	59.519 ppb	59.261 ppb	60.662 ppb	60.238 ppb
Concentration RSD	2.3 %	1.3 %	1.6 %	2.4 %	1.8 %	1.7 %	2.8 %	1.5 %	1.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	117.955 %	60.387 ppb	58.510 ppb	59.474 ppb	59.503 ppb	117.482 %	60.328 ppb	60.590 ppb	115.355 %
Concentration per Run 1	116.766 %	59.512 ppb	58.154 ppb	57.664 ppb	58.640 ppb	113.685 %	60.432 ppb	60.169 ppb	113.525 %
Concentration per Run 2	118.516 %	62.090 ppb	60.787 ppb	63.215 ppb	61.322 ppb	121.210 %	58.693 ppb	59.769 ppb	120.249 %
Concentration per Run 3	118.583 %	59.559 ppb	56.589 ppb	57.544 ppb	58.546 ppb	117.551 %	61.859 ppb	61.833 ppb	112.292 %
Concentration RSD	0.9 %	2.4 %	3.6 %	5.4 %	2.6 %	3.2 %	2.6 %	1.8 %	3.7 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.461 ppb	59.984 ppb	117.292 %	115.847 %	52.923 ppb	57.012 ppb	120.340 %
Concentration per Run 1	58.792 ppb	58.327 ppb	114.471 %	115.760 %	50.886 ppb	55.039 ppb	122.685 %
Concentration per Run 2	59.725 ppb	61.342 ppb	120.829 %	119.907 %	52.921 ppb	57.220 ppb	121.906 %
Concentration per Run 3	59.867 ppb	60.283 ppb	116.575 %	111.875 %	54.963 ppb	58.776 ppb	116.429 %
Concentration RSD	1.0 %	2.6 %	2.8 %	3.5 %	3.9 %	3.3 %	2.8 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	8	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	120/12000 Cal	Rack	0		
Analysis started at:	12/6/2023 5:41:23 AM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	100.582 %	117.977 %	119.995 ppb	120.125 ppb	12,026.737 ppb	12,022.215 ppb	120.211 ppb	11,998.225 ppb	11,951.121 ppb
Concentration per Run 1	103.273 %	121.972 %	120.011 ppb	120.667 ppb	11,771.935 ppb	12,636.172 ppb	111.008 ppb	11,437.124 ppb	11,447.072 ppb
Concentration per Run 2	100.542 %	114.240 %	120.524 ppb	119.562 ppb	12,337.620 ppb	11,856.572 ppb	129.541 ppb	12,719.341 ppb	12,392.479 ppb
Concentration per Run 3	97.930 %	117.719 %	119.451 ppb	120.145 ppb	11,970.658 ppb	11,573.901 ppb	120.083 ppb	11,838.210 ppb	12,013.813 ppb
Concentration RSD	2.7 %	3.3 %	0.4 %	0.5 %	2.4 %	4.6 %	7.7 %	5.5 %	4.0 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	124.225 %	120.457 ppb	120.276 ppb	120.723 ppb	12,018.867 ppb	119.640 ppb	119.540 ppb	119.415 ppb	119.715 ppb
Concentration per Run 1	125.579 %	115.972 ppb	116.644 ppb	116.945 ppb	11,691.383 ppb	116.022 ppb	120.092 ppb	116.399 ppb	118.363 ppb
Concentration per Run 2	122.744 %	122.815 ppb	121.671 ppb	120.274 ppb	12,172.790 ppb	124.387 ppb	121.151 ppb	120.940 ppb	120.130 ppb
Concentration per Run 3	124.353 %	122.585 ppb	122.514 ppb	124.950 ppb	12,192.428 ppb	118.510 ppb	117.377 ppb	120.907 ppb	120.651 ppb
Concentration RSD	1.1 %	3.2 %	2.6 %	3.3 %	2.4 %	3.6 %	1.6 %	2.2 %	1.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	117.803 %	119.845 ppb	120.807 ppb	120.278 ppb	120.280 ppb	119.015 %	119.846 ppb	119.713 ppb	116.469 %
Concentration per Run 1	117.401 %	116.123 ppb	120.609 ppb	115.157 ppb	118.739 ppb	117.673 %	121.767 ppb	120.004 ppb	109.697 %
Concentration per Run 2	119.682 %	121.651 ppb	122.265 ppb	127.570 ppb	120.474 ppb	120.798 %	117.642 ppb	120.556 ppb	123.223 %
Concentration per Run 3	116.326 %	121.761 ppb	119.547 ppb	118.107 ppb	121.627 ppb	118.574 %	120.128 ppb	118.580 ppb	116.487 %
Concentration RSD	1.5 %	2.7 %	1.1 %	5.4 %	1.2 %	1.4 %	1.7 %	0.9 %	5.8 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	120.314 ppb	120.038 ppb	120.489 %	119.227 %	123.663 ppb	121.548 ppb	122.408 %
Concentration per Run 1	121.706 ppb	119.473 ppb	121.401 %	117.448 %	120.069 ppb	118.016 ppb	124.361 %
Concentration per Run 2	119.560 ppb	117.767 ppb	124.483 %	122.973 %	124.393 ppb	123.585 ppb	123.030 %
Concentration per Run 3	119.676 ppb	122.873 ppb	115.585 %	117.259 %	126.527 ppb	123.043 ppb	119.833 %
Concentration RSD	1.0 %	2.2 %	3.8 %	2.7 %	2.7 %	2.5 %	1.9 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	9	User name	ALPHALAB\Metals-Instrument	Comment	Sr Inteference Check
Analysis label:	Sr 200ppb	Rack	4		
Analysis started at:	12/6/2023 5:46:56 AM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	104.397 %	125.000 %	0.026 ppb	0.426 ppb	-15.305 ppb	2.176 ppb	0.431 ppb	-5.071 ppb	0.419 ppb
Concentration per Run 1	106.868 %	128.544 %	0.023 ppb	0.370 ppb	-19.990 ppb	1.171 ppb	0.051 ppb	-12.315 ppb	-36.286 ppb
Concentration per Run 2	104.383 %	121.585 %	0.026 ppb	0.462 ppb	-13.581 ppb	3.294 ppb	0.376 ppb	-5.657 ppb	27.242 ppb
Concentration per Run 3	101.939 %	124.872 %	0.029 ppb	0.445 ppb	-12.344 ppb	2.062 ppb	0.868 ppb	2.758 ppb	10.301 ppb
Concentration RSD	2.4 %	2.8 %	10.9 %	11.4 %	26.8 %	49.0 %	95.3 %	149.0 %	7,848.6 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	107.559 %	-0.012 ppb	0.026 ppb	0.034 ppb	12.908 ppb	0.006 ppb	0.015 ppb	0.011 ppb	0.552 ppb
Concentration per Run 1	109.271 %	-0.006 ppb	0.017 ppb	0.033 ppb	13.993 ppb	0.007 ppb	0.042 ppb	0.021 ppb	0.540 ppb
Concentration per Run 2	107.381 %	-0.017 ppb	0.044 ppb	0.094 ppb	12.192 ppb	0.004 ppb	-0.023 ppb	0.007 ppb	0.604 ppb
Concentration per Run 3	106.026 %	-0.012 ppb	0.017 ppb	-0.024 ppb	12.540 ppb	0.007 ppb	0.027 ppb	0.006 ppb	0.512 ppb
Concentration RSD	1.5 %	50.3 %	59.8 %	171.6 %	7.4 %	30.8 %	219.6 %	74.8 %	8.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	118.064 %	-0.122 ppb	0.430 ppb	198.967 ppb	1.087 ppb	119.431 %	0.012 ppb	0.005 ppb	120.828 %
Concentration per Run 1	117.427 %	-0.034 ppb	0.329 ppb	195.195 ppb	1.039 ppb	118.288 %	0.012 ppb	-0.001 ppb	115.951 %
Concentration per Run 2	114.799 %	-0.151 ppb	0.482 ppb	195.701 ppb	1.099 ppb	118.535 %	0.010 ppb	0.009 ppb	117.268 %
Concentration per Run 3	121.966 %	-0.180 ppb	0.480 ppb	206.005 ppb	1.125 ppb	121.470 %	0.014 ppb	0.007 ppb	129.266 %
Concentration RSD	3.1 %	63.3 %	20.4 %	3.1 %	4.0 %	1.5 %	16.7 %	99.7 %	6.1 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.036 ppb	0.070 ppb	120.448 %	120.412 %	0.383 ppb	0.027 ppb	126.355 %
Concentration per Run 1	0.020 ppb	0.057 ppb	119.149 %	116.622 %	0.278 ppb	0.029 ppb	126.711 %
Concentration per Run 2	0.044 ppb	0.068 ppb	119.450 %	118.882 %	0.434 ppb	0.030 ppb	126.602 %
Concentration per Run 3	0.043 ppb	0.085 ppb	122.745 %	125.733 %	0.436 ppb	0.023 ppb	125.754 %
Concentration RSD	39.1 %	20.4 %	1.7 %	3.9 %	23.6 %	15.0 %	0.4 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	10	User name	ALPHALAB\Metals-Instrument	Comment	ICV
Analysis label:	ICV	Rack	0		
Analysis started at:	12/6/2023 5:51:38 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	100.620 %	122.745 %	52.596 ppb	54.557 ppb	5,195.958 ppb	5,246.312 ppb	52.421 ppb	5,065.183 ppb	5,118.462 ppb
Concentration per Run 1	102.282 %	108.248 %	52.745 ppb	53.840 ppb	5,614.316 ppb	5,668.186 ppb	53.400 ppb	5,281.465 ppb	5,425.461 ppb
Concentration per Run 2	101.006 %	122.939 %	52.009 ppb	54.537 ppb	5,034.068 ppb	5,059.275 ppb	51.126 ppb	4,818.982 ppb	4,768.652 ppb
Concentration per Run 3	98.572 %	137.050 %	53.034 ppb	55.294 ppb	4,939.491 ppb	5,011.474 ppb	52.737 ppb	5,095.103 ppb	5,161.274 ppb
Recovery Percentage 1			105.192 %	109.114 %	103.919 %	104.926 %	104.842 %	101.304 %	102.369 %
Concentration RSD	1.9 %	11.7 %	1.0 %	1.3 %	7.0 %	7.0 %	2.2 %	4.6 %	6.5 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	110.614 %	50.440 ppb	51.288 ppb	52.123 ppb	5,227.486 ppb	51.530 ppb	52.271 ppb	51.024 ppb	51.897 ppb
Concentration per Run 1	108.611 %	52.104 ppb	54.345 ppb	53.453 ppb	5,386.169 ppb	53.556 ppb	52.770 ppb	52.673 ppb	52.042 ppb
Concentration per Run 2	111.909 %	50.220 ppb	49.274 ppb	49.253 ppb	5,026.706 ppb	50.511 ppb	52.137 ppb	50.954 ppb	51.603 ppb
Concentration per Run 3	111.323 %	48.996 ppb	50.243 ppb	53.663 ppb	5,269.583 ppb	50.524 ppb	51.906 ppb	49.445 ppb	52.047 ppb
Recovery Percentage 1		100.881 %	102.575 %	104.246 %	104.550 %	103.061 %	104.542 %	102.048 %	103.794 %
Concentration RSD	1.6 %	3.1 %	5.2 %	4.8 %	3.5 %	3.4 %	0.9 %	3.2 %	0.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	121.230 %	50.374 ppb	48.165 ppb	50.881 ppb	52.623 ppb	118.999 %	52.467 ppb	52.828 ppb	116.980 %
Concentration per Run 1	118.466 %	50.794 ppb	45.425 ppb	49.582 ppb	52.545 ppb	117.246 %	53.457 ppb	54.208 ppb	114.274 %
Concentration per Run 2	118.590 %	49.875 ppb	46.979 ppb	50.149 ppb	53.205 ppb	119.094 %	52.389 ppb	52.378 ppb	113.157 %
Concentration per Run 3	126.634 %	50.454 ppb	52.091 ppb	52.913 ppb	52.121 ppb	120.659 %	51.556 ppb	51.897 ppb	123.510 %
Recovery Percentage 1		100.749 %	96.330 %	101.763 %	105.247 %		104.935 %	105.655 %	
Concentration RSD	3.9 %	0.9 %	7.2 %	3.5 %	1.0 %	1.4 %	1.8 %	2.3 %	4.9 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	51.039 ppb	51.448 ppb	119.902 %	120.366 %	45.246 ppb	48.401 ppb	127.231 %
Concentration per Run 1	51.508 ppb	50.360 ppb	118.440 %	118.726 %	45.668 ppb	45.167 ppb	135.504 %
Concentration per Run 2	50.754 ppb	50.755 ppb	119.449 %	118.411 %	45.169 ppb	49.330 ppb	123.527 %
Concentration per Run 3	50.854 ppb	53.230 ppb	121.817 %	123.961 %	44.899 ppb	50.706 ppb	122.661 %
Recovery Percentage 1	102.078 %	102.897 %			90.491 %	96.802 %	
Concentration RSD	0.8 %	3.0 %	1.4 %	2.6 %	0.9 %	6.0 %	5.6 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 11 User name ALPHALAB\Metals-Instrument Comment ICB
Analysis label: ICB Rack 0
Analysis started at: 12/6/2023 5:56:18 AM Vial 10

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	102.364 %	121.714 %	0.013 ppb	0.203 ppb	-16.562 ppb	0.443 ppb	-0.050 ppb	-0.256 ppb	-3.249 ppb
Concentration per Run 1	104.072 %	122.359 %	0.008 ppb	0.195 ppb	-18.621 ppb	0.490 ppb	-0.254 ppb	-7.669 ppb	-8.433 ppb
Concentration per Run 2	102.488 %	121.006 %	0.021 ppb	0.188 ppb	-17.715 ppb	0.716 ppb	-0.046 ppb	1.381 ppb	-0.671 ppb
Concentration per Run 3	100.533 %	121.779 %	0.012 ppb	0.224 ppb	-13.350 ppb	0.124 ppb	0.149 ppb	5.521 ppb	-0.643 ppb
Recovery Percentage 1			2.698 %	2.026 %	-16.562 %	0.633 %	-0.505 %	-0.256 %	-3.249 %
Concentration RSD	1.7 %	0.6 %	47.0 %	9.5 %	17.0 %	67.3 %	398.8 %	2,634.6 %	138.2 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	108.395 %	-0.014 ppb	-0.001 ppb	0.009 ppb	8.514 ppb	0.002 ppb	0.024 ppb	0.021 ppb	0.278 ppb
Concentration per Run 1	106.439 %	-0.004 ppb	0.026 ppb	-0.019 ppb	8.289 ppb	0.000 ppb	0.007 ppb	0.023 ppb	0.333 ppb
Concentration per Run 2	109.804 %	-0.031 ppb	0.008 ppb	-0.021 ppb	7.483 ppb	0.005 ppb	0.031 ppb	0.019 ppb	0.223 ppb
Concentration per Run 3	108.943 %	-0.007 ppb	-0.038 ppb	0.068 ppb	9.772 ppb	0.001 ppb	0.036 ppb	0.021 ppb	0.279 ppb
Recovery Percentage 1		-0.281 %	-0.130 %	0.924 %	17.029 %	0.398 %	1.220 %	2.074 %	5.569 %
Concentration RSD	1.6 %	103.5 %	2,523.0 %	546.9 %	13.6 %	127.8 %	63.6 %	9.5 %	19.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	120.166 %	-0.088 ppb	0.412 ppb	0.011 ppb	0.799 ppb	121.451 %	0.007 ppb	0.003 ppb	117.673 %
Concentration per Run 1	114.689 %	-0.006 ppb	0.656 ppb	0.022 ppb	0.813 ppb	123.981 %	0.009 ppb	-0.001 ppb	115.722 %
Concentration per Run 2	117.599 %	-0.228 ppb	0.238 ppb	0.005 ppb	0.759 ppb	119.931 %	0.006 ppb	0.001 ppb	114.193 %
Concentration per Run 3	128.210 %	-0.029 ppb	0.342 ppb	0.006 ppb	0.827 ppb	120.439 %	0.004 ppb	0.007 ppb	123.105 %
Recovery Percentage 1		-17.538 %	8.239 %	0.110 %	39.974 %		1.640 %	1.301 %	
Concentration RSD	5.9 %	139.3 %	52.8 %	86.8 %	4.5 %	1.8 %	33.6 %	163.7 %	4.1 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.054 ppb	0.013 ppb	117.807 %	120.716 %	0.397 ppb	0.018 ppb	121.906 %
Concentration per Run 1	0.038 ppb	0.022 ppb	115.978 %	118.746 %	0.288 ppb	0.020 ppb	125.339 %
Concentration per Run 2	0.071 ppb	-0.002 ppb	116.004 %	117.136 %	0.460 ppb	0.017 ppb	119.281 %
Concentration per Run 3	0.054 ppb	0.020 ppb	121.439 %	126.265 %	0.443 ppb	0.017 ppb	121.099 %
Recovery Percentage 1	1.352 %	2.669 %			39.688 %	1.814 %	
Concentration RSD	30.2 %	99.7 %	2.7 %	4.0 %	23.8 %	9.7 %	2.6 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	12	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	LLCCV	Rack	4		
Analysis started at:	12/6/2023 6:02:18 AM	Vial	51		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	101.702 %	121.134 %	0.306 ppb	10.394 ppb	71.523 ppb	70.225 ppb	10.521 ppb	104.283 ppb	174.170 ppb
Concentration per Run 1	102.875 %	116.946 %	0.299 ppb	10.328 ppb	76.040 ppb	70.823 ppb	9.967 ppb	99.388 ppb	176.216 ppb
Concentration per Run 2	101.711 %	121.585 %	0.311 ppb	10.446 ppb	65.731 ppb	68.191 ppb	10.478 ppb	90.689 ppb	167.595 ppb
Concentration per Run 3	100.521 %	124.872 %	0.309 ppb	10.409 ppb	72.798 ppb	71.661 ppb	11.117 ppb	122.774 ppb	178.699 ppb
Recovery Percentage 1			61.241 %	103.945 %	71.523 %	100.322 %	105.206 %	104.283 %	174.170 %
Concentration RSD	1.2 %	3.3 %	2.2 %	0.6 %	7.4 %	2.6 %	5.5 %	15.9 %	3.3 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	107.179 %	5.007 ppb	0.470 ppb	3.132 ppb	506.463 ppb	0.471 ppb	2.002 ppb	1.538 ppb	11.321 ppb
Concentration per Run 1	105.769 %	5.085 ppb	0.465 ppb	2.947 ppb	500.278 ppb	0.478 ppb	2.108 ppb	1.563 ppb	11.093 ppb
Concentration per Run 2	108.035 %	4.963 ppb	0.451 ppb	3.248 ppb	493.907 ppb	0.463 ppb	1.846 ppb	1.559 ppb	11.277 ppb
Concentration per Run 3	107.732 %	4.974 ppb	0.494 ppb	3.201 ppb	525.205 ppb	0.471 ppb	2.051 ppb	1.492 ppb	11.592 ppb
Recovery Percentage 1		100.147 %	47.006 %	313.181 %	1,012.927 %	94.160 %	100.077 %	153.841 %	113.206 %
Concentration RSD	1.1 %	1.3 %	4.7 %	5.2 %	3.3 %	1.6 %	6.9 %	2.6 %	2.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	119.196 %	0.449 ppb	4.461 ppb	0.492 ppb	2.165 ppb	121.206 %	0.203 ppb	0.182 ppb	117.235 %
Concentration per Run 1	116.064 %	0.476 ppb	3.497 ppb	0.475 ppb	2.040 ppb	121.397 %	0.206 ppb	0.192 ppb	113.201 %
Concentration per Run 2	117.736 %	0.468 ppb	4.726 ppb	0.476 ppb	2.238 ppb	119.994 %	0.203 ppb	0.187 ppb	113.539 %
Concentration per Run 3	123.790 %	0.403 ppb	5.159 ppb	0.524 ppb	2.218 ppb	122.227 %	0.199 ppb	0.167 ppb	124.966 %
Recovery Percentage 1		89.847 %	89.222 %	98.378 %	108.258 %		50.676 %	90.935 %	
Concentration RSD	3.4 %	8.9 %	19.3 %	5.7 %	5.0 %	0.9 %	1.9 %	7.4 %	5.7 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.944 ppb	0.451 ppb	119.435 %	118.820 %	0.495 ppb	0.454 ppb	128.709 %
Concentration per Run 1	2.069 ppb	0.432 ppb	117.663 %	114.058 %	0.419 ppb	0.434 ppb	136.628 %
Concentration per Run 2	1.893 ppb	0.446 ppb	116.362 %	114.379 %	0.516 ppb	0.455 ppb	125.192 %
Concentration per Run 3	1.869 ppb	0.477 ppb	124.280 %	128.023 %	0.550 ppb	0.474 ppb	124.308 %
Recovery Percentage 1	48.592 %	90.276 %			98.999 %	90.884 %	
Concentration RSD	5.6 %	5.1 %	3.6 %	6.7 %	13.7 %	4.4 %	5.3 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	13	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	ICSA	Rack	4		
Analysis started at:	12/6/2023 6:07:00 AM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	86.298 %	115.980 %	0.020 ppb	0.655 ppb	48,063.329 ppb	21,052.913 ppb	19,080.971 ppb	19,517.836 ppb	60,683.428 ppb
Concentration per Run 1	87.216 %	114.047 %	0.021 ppb	0.666 ppb	48,791.013 ppb	21,557.633 ppb	18,751.023 ppb	19,480.915 ppb	60,432.097 ppb
Concentration per Run 2	86.264 %	107.281 %	0.022 ppb	0.645 ppb	49,356.717 ppb	21,474.994 ppb	19,471.519 ppb	19,619.640 ppb	59,824.659 ppb
Concentration per Run 3	85.414 %	126.611 %	0.017 ppb	0.652 ppb	46,042.255 ppb	20,126.112 ppb	19,020.372 ppb	19,452.954 ppb	61,793.529 ppb
Recovery Percentage 1			3.958 %	6.545 %	48,063.329 %	30,075.590 %	190,809.714 %	19,517.836 %	60,683.428 %
Concentration RSD	1.0 %	8.5 %	14.3 %	1.6 %	3.7 %	3.8 %	1.9 %	0.5 %	1.7 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	104.462 %	0.021 ppb	0.280 ppb	0.916 ppb	52,671.317 ppb	0.475 ppb	0.615 ppb	0.266 ppb	0.956 ppb
Concentration per Run 1	104.519 %	0.030 ppb	0.264 ppb	0.984 ppb	52,123.770 ppb	0.488 ppb	0.614 ppb	0.226 ppb	0.899 ppb
Concentration per Run 2	104.600 %	0.004 ppb	0.305 ppb	0.935 ppb	52,199.877 ppb	0.458 ppb	0.569 ppb	0.297 ppb	1.061 ppb
Concentration per Run 3	104.267 %	0.031 ppb	0.271 ppb	0.829 ppb	53,690.304 ppb	0.478 ppb	0.661 ppb	0.274 ppb	0.908 ppb
Recovery Percentage 1		0.429 %	28.009 %	91.598 %	105,342.634 %	94.903 %	30.740 %	26.562 %	19.118 %
Concentration RSD	0.2 %	72.4 %	7.8 %	8.7 %	1.7 %	3.3 %	7.5 %	13.7 %	9.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	118.665 %	-0.069 ppb	1.098 ppb	0.520 ppb	413.732 ppb	114.069 %	0.006 ppb	0.076 ppb	116.386 %
Concentration per Run 1	116.109 %	0.040 ppb	1.012 ppb	0.496 ppb	402.281 ppb	113.361 %	0.007 ppb	0.061 ppb	112.135 %
Concentration per Run 2	117.635 %	-0.242 ppb	1.316 ppb	0.512 ppb	411.183 ppb	113.896 %	0.007 ppb	0.074 ppb	113.760 %
Concentration per Run 3	122.250 %	-0.006 ppb	0.965 ppb	0.551 ppb	427.733 ppb	114.949 %	0.005 ppb	0.093 ppb	123.264 %
Recovery Percentage 1		-13.880 %	21.953 %	5.195 %	20,686.605 %		1.527 %	37.925 %	
Concentration RSD	2.7 %	218.4 %	17.4 %	5.4 %	3.1 %	0.7 %	14.4 %	21.2 %	5.2 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.057 ppb	0.276 ppb	121.654 %	118.751 %	0.079 ppb	0.293 ppb	122.109 %
Concentration per Run 1	0.047 ppb	0.226 ppb	119.140 %	114.855 %	0.050 ppb	0.280 ppb	131.312 %
Concentration per Run 2	0.059 ppb	0.245 ppb	122.223 %	117.369 %	0.093 ppb	0.299 ppb	114.342 %
Concentration per Run 3	0.065 ppb	0.358 ppb	123.599 %	124.029 %	0.096 ppb	0.301 ppb	120.672 %
Recovery Percentage 1	1.423 %	55.290 %			7.945 %	29.345 %	
Concentration RSD	16.2 %	25.7 %	1.9 %	4.0 %	32.6 %	3.9 %	7.0 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	14	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	12/6/2023 6:11:42 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	92.188 %	120.877 %	0.017 ppb	-0.051 ppb	-4.438 ppb	2.621 ppb	0.520 ppb	-3.342 ppb	1.324 ppb
Concentration per Run 1	93.569 %	117.333 %	0.011 ppb	-0.061 ppb	-0.928 ppb	2.506 ppb	1.076 ppb	2.946 ppb	-0.293 ppb
Concentration per Run 2	91.379 %	124.292 %	0.029 ppb	-0.083 ppb	-6.404 ppb	2.575 ppb	0.107 ppb	-7.809 ppb	0.170 ppb
Concentration per Run 3	91.616 %	121.006 %	0.012 ppb	-0.008 ppb	-5.983 ppb	2.781 ppb	0.378 ppb	-5.165 ppb	4.094 ppb
Concentration RSD	1.3 %	2.9 %	58.3 %	77.0 %	68.7 %	5.5 %	96.1 %	167.7 %	182.1 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	102.701 %	-0.025 ppb	0.000 ppb	0.103 ppb	41.804 ppb	0.006 ppb	0.203 ppb	0.083 ppb	3.049 ppb
Concentration per Run 1	101.651 %	-0.037 ppb	-0.029 ppb	0.098 ppb	45.792 ppb	0.000 ppb	0.172 ppb	0.088 ppb	3.153 ppb
Concentration per Run 2	101.692 %	-0.024 ppb	0.011 ppb	0.106 ppb	41.130 ppb	0.009 ppb	0.199 ppb	0.094 ppb	2.940 ppb
Concentration per Run 3	104.761 %	-0.012 ppb	0.019 ppb	0.104 ppb	38.492 ppb	0.009 ppb	0.238 ppb	0.068 ppb	3.055 ppb
Concentration RSD	1.7 %	50.3 %	7,645.6 %	4.0 %	8.8 %	82.6 %	16.3 %	16.4 %	3.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	116.718 %	-0.110 ppb	0.062 ppb	0.024 ppb	4.186 ppb	121.345 %	0.009 ppb	0.012 ppb	116.785 %
Concentration per Run 1	112.995 %	0.001 ppb	0.061 ppb	0.022 ppb	4.401 ppb	120.277 %	0.011 ppb	0.011 ppb	111.937 %
Concentration per Run 2	113.145 %	-0.122 ppb	0.061 ppb	0.027 ppb	4.359 ppb	119.904 %	0.006 ppb	0.013 ppb	114.583 %
Concentration per Run 3	124.014 %	-0.209 ppb	0.063 ppb	0.024 ppb	3.799 ppb	123.853 %	0.011 ppb	0.011 ppb	123.836 %
Concentration RSD	5.4 %	96.1 %	1.6 %	10.4 %	8.0 %	1.8 %	31.5 %	10.5 %	5.3 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.027 ppb	0.014 ppb	118.562 %	116.554 %	0.064 ppb	0.029 ppb	124.737 %
Concentration per Run 1	0.023 ppb	0.010 ppb	114.666 %	113.987 %	0.038 ppb	0.027 ppb	129.510 %
Concentration per Run 2	0.025 ppb	0.022 ppb	117.208 %	111.981 %	0.076 ppb	0.028 ppb	120.620 %
Concentration per Run 3	0.031 ppb	0.008 ppb	123.812 %	123.695 %	0.079 ppb	0.030 ppb	124.081 %
Concentration RSD	16.2 %	53.5 %	4.0 %	5.4 %	35.5 %	5.9 %	3.6 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	15	User name	ALPHALAB\Metals-Instrument	Comment	CCV/MCCV
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 6:16:19 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	91.378 %	125.000 %	61.829 ppb	62.201 ppb	5,913.487 ppb	5,750.885 ppb	61.568 ppb	6,109.978 ppb	6,090.639 ppb
Concentration per Run 1	92.018 %	117.333 %	62.619 ppb	62.573 ppb	6,023.568 ppb	5,785.459 ppb	62.658 ppb	6,178.201 ppb	6,162.450 ppb
Concentration per Run 2	91.865 %	124.872 %	61.768 ppb	62.429 ppb	5,825.054 ppb	5,778.744 ppb	59.609 ppb	6,177.430 ppb	6,013.783 ppb
Concentration per Run 3	90.251 %	132.797 %	61.101 ppb	61.601 ppb	5,891.839 ppb	5,688.453 ppb	62.437 ppb	5,974.304 ppb	6,095.682 ppb
Recovery Percentage 1			103.049 %	103.668 %	98.558 %	95.848 %	102.613 %	101.833 %	101.511 %
Concentration RSD	1.1 %	6.2 %	1.2 %	0.8 %	1.7 %	0.9 %	2.8 %	1.9 %	1.2 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	109.954 %	59.373 ppb	59.463 ppb	59.147 ppb	5,906.336 ppb	60.476 ppb	61.093 ppb	60.733 ppb	60.503 ppb
Concentration per Run 1	109.322 %	62.220 ppb	61.376 ppb	60.732 ppb	6,081.372 ppb	63.408 ppb	62.564 ppb	63.669 ppb	61.930 ppb
Concentration per Run 2	109.686 %	58.557 ppb	58.013 ppb	56.077 ppb	5,877.733 ppb	59.992 ppb	62.330 ppb	60.096 ppb	60.625 ppb
Concentration per Run 3	110.856 %	57.341 ppb	59.001 ppb	60.631 ppb	5,759.902 ppb	58.029 ppb	58.384 ppb	58.433 ppb	58.953 ppb
Recovery Percentage 1		98.955 %	99.106 %	98.578 %	98.439 %	100.794 %	101.821 %	101.222 %	100.838 %
Concentration RSD	0.7 %	4.3 %	2.9 %	4.5 %	2.8 %	4.5 %	3.8 %	4.4 %	2.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	119.904 %	60.869 ppb	59.182 ppb	60.141 ppb	62.876 ppb	119.615 %	61.402 ppb	61.377 ppb	115.486 %
Concentration per Run 1	113.572 %	62.015 ppb	60.807 ppb	59.349 ppb	62.749 ppb	116.303 %	62.889 ppb	63.312 ppb	108.716 %
Concentration per Run 2	117.303 %	61.578 ppb	58.405 ppb	58.862 ppb	61.770 ppb	118.946 %	62.291 ppb	60.777 ppb	113.549 %
Concentration per Run 3	128.837 %	59.015 ppb	58.334 ppb	62.213 ppb	64.109 ppb	123.594 %	59.027 ppb	60.041 ppb	124.194 %
Recovery Percentage 1		101.449 %	98.637 %	100.236 %	104.793 %		102.337 %	102.294 %	
Concentration RSD	6.6 %	2.7 %	2.4 %	3.0 %	1.9 %	3.1 %	3.4 %	2.8 %	6.9 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.187 ppb	60.739 ppb	120.181 %	116.367 %	62.805 ppb	57.386 ppb	123.068 %
Concentration per Run 1	63.642 ppb	62.181 ppb	117.111 %	111.223 %	63.779 ppb	54.466 ppb	128.903 %
Concentration per Run 2	60.318 ppb	57.861 ppb	119.218 %	114.303 %	63.324 ppb	59.013 ppb	117.315 %
Concentration per Run 3	59.601 ppb	62.176 ppb	124.215 %	123.577 %	61.313 ppb	58.680 ppb	122.985 %
Recovery Percentage 1	101.979 %	101.232 %			104.676 %	95.643 %	
Concentration RSD	3.5 %	4.1 %	3.0 %	5.5 %	2.1 %	4.4 %	4.7 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	16	User name	ALPHALAB\Metals-Instrument	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 6:21:00 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	96.370 %	122.552 %	0.017 ppb	-0.009 ppb	-10.132 ppb	0.636 ppb	-0.004 ppb	-5.260 ppb	0.335 ppb
Concentration per Run 1	97.541 %	122.745 %	0.017 ppb	-0.037 ppb	-15.401 ppb	1.010 ppb	-0.441 ppb	-10.049 ppb	-3.080 ppb
Concentration per Run 2	96.227 %	127.964 %	0.021 ppb	0.021 ppb	-13.086 ppb	1.068 ppb	0.013 ppb	-7.787 ppb	2.430 ppb
Concentration per Run 3	95.342 %	116.946 %	0.012 ppb	-0.010 ppb	-1.910 ppb	-0.170 ppb	0.416 ppb	2.055 ppb	1.655 ppb
Recovery Percentage 1			3.308 %	-0.086 %	-10.132 %	0.909 %	-0.042 %	-5.260 %	0.335 %
Concentration RSD	1.1 %	4.5 %	27.7 %	334.8 %	71.2 %	109.9 %	10,140.6 %	122.3 %	890.8 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	103.130 %	-0.014 ppb	-0.021 ppb	-0.002 ppb	11.859 ppb	0.006 ppb	0.052 ppb	0.033 ppb	0.311 ppb
Concentration per Run 1	101.662 %	-0.019 ppb	-0.018 ppb	-0.001 ppb	13.277 ppb	0.002 ppb	0.092 ppb	0.035 ppb	0.283 ppb
Concentration per Run 2	101.994 %	-0.037 ppb	-0.030 ppb	-0.022 ppb	11.991 ppb	0.009 ppb	0.029 ppb	0.027 ppb	0.317 ppb
Concentration per Run 3	105.735 %	0.013 ppb	-0.015 ppb	0.019 ppb	10.310 ppb	0.007 ppb	0.034 ppb	0.036 ppb	0.332 ppb
Recovery Percentage 1		-0.288 %	-2.120 %	-0.163 %	23.719 %	1.236 %	2.599 %	3.259 %	6.213 %
Concentration RSD	2.2 %	176.7 %	38.5 %	1,265.5 %	12.5 %	58.6 %	67.6 %	15.2 %	8.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	121.762 %	-0.081 ppb	0.552 ppb	0.014 ppb	1.003 ppb	121.499 %	0.006 ppb	0.002 ppb	119.016 %
Concentration per Run 1	121.541 %	-0.058 ppb	0.540 ppb	0.017 ppb	0.944 ppb	118.260 %	0.008 ppb	0.003 ppb	113.107 %
Concentration per Run 2	118.241 %	-0.097 ppb	0.859 ppb	0.016 ppb	1.013 ppb	120.236 %	0.005 ppb	-0.001 ppb	112.238 %
Concentration per Run 3	125.504 %	-0.088 ppb	0.257 ppb	0.008 ppb	1.053 ppb	126.000 %	0.004 ppb	0.002 ppb	131.704 %
Recovery Percentage 1		-16.204 %	11.042 %	0.138 %	50.159 %		1.412 %	0.751 %	
Concentration RSD	3.0 %	24.9 %	54.6 %	35.2 %	5.5 %	3.3 %	37.2 %	125.3 %	9.2 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.034 ppb	0.006 ppb	119.728 %	118.240 %	0.389 ppb	0.016 ppb	125.579 %
Concentration per Run 1	0.029 ppb	0.022 ppb	118.634 %	115.599 %	0.285 ppb	0.019 ppb	127.624 %
Concentration per Run 2	0.030 ppb	0.010 ppb	118.680 %	115.252 %	0.457 ppb	0.013 ppb	123.728 %
Concentration per Run 3	0.042 ppb	-0.014 ppb	121.869 %	123.869 %	0.424 ppb	0.016 ppb	125.385 %
Recovery Percentage 1	0.847 %	1.195 %			38.873 %	1.625 %	
Concentration RSD	21.4 %	307.0 %	1.5 %	4.1 %	23.4 %	17.7 %	1.6 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	17	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2369194-01 A2-6020T	Rack	1		
Analysis started at:	12/6/2023 6:48:19 AM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	119.043 %	111.856 %	0.011 ppb	5.141 ppb	40,745.381 ppb	7.335 ppb	13.781 ppb	456.600 ppb	37.738 ppb
Concentration per Run 1	121.093 %	109.214 %	0.015 ppb	5.172 ppb	41,049.270 ppb	7.408 ppb	13.370 ppb	438.347 ppb	30.873 ppb
Concentration per Run 2	119.089 %	115.593 %	0.013 ppb	5.099 ppb	39,901.964 ppb	8.122 ppb	13.620 ppb	442.179 ppb	37.330 ppb
Concentration per Run 3	116.947 %	110.761 %	0.007 ppb	5.150 ppb	41,284.909 ppb	6.474 ppb	14.354 ppb	489.273 ppb	45.012 ppb
Concentration RSD	1.7 %	3.0 %	35.6 %	0.7 %	1.8 %	11.3 %	3.7 %	6.2 %	18.8 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	114.279 %	0.010 ppb	0.110 ppb	3.610 ppb	40.437 ppb	0.014 ppb	0.273 ppb	2.877 ppb	10.805 ppb
Concentration per Run 1	113.913 %	-0.001 ppb	0.082 ppb	4.028 ppb	42.165 ppb	0.012 ppb	0.300 ppb	2.860 ppb	11.298 ppb
Concentration per Run 2	115.023 %	0.010 ppb	0.115 ppb	3.731 ppb	40.444 ppb	0.018 ppb	0.223 ppb	2.840 ppb	10.677 ppb
Concentration per Run 3	113.902 %	0.022 ppb	0.135 ppb	3.072 ppb	38.702 ppb	0.011 ppb	0.297 ppb	2.932 ppb	10.440 ppb
Concentration RSD	0.6 %	112.9 %	24.1 %	13.5 %	4.3 %	26.7 %	16.1 %	1.7 %	4.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	114.871 %	0.434 ppb	0.100 ppb	0.166 ppb	0.129 ppb	116.033 %	0.001 ppb	0.001 ppb	109.777 %
Concentration per Run 1	108.687 %	0.655 ppb	0.158 ppb	0.176 ppb	0.106 ppb	112.787 %	0.003 ppb	0.003 ppb	103.167 %
Concentration per Run 2	114.080 %	0.451 ppb	0.009 ppb	0.164 ppb	0.131 ppb	118.136 %	-0.001 ppb	-0.001 ppb	115.029 %
Concentration per Run 3	121.846 %	0.195 ppb	0.133 ppb	0.157 ppb	0.148 ppb	117.176 %	0.001 ppb	0.001 ppb	111.135 %
Concentration RSD	5.8 %	53.1 %	80.0 %	5.6 %	16.5 %	2.5 %	186.4 %	160.1 %	5.5 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.053 ppb	0.265 ppb	117.284 %	117.898 %	0.127 ppb	0.053 ppb	87.333 %
Concentration per Run 1	0.053 ppb	0.333 ppb	113.106 %	110.867 %	0.126 ppb	0.056 ppb	82.136 %
Concentration per Run 2	0.050 ppb	0.199 ppb	120.012 %	122.454 %	0.144 ppb	0.053 ppb	88.470 %
Concentration per Run 3	0.055 ppb	0.264 ppb	118.733 %	120.373 %	0.111 ppb	0.051 ppb	91.392 %
Concentration RSD	4.3 %	25.3 %	3.1 %	5.2 %	12.9 %	4.2 %	5.4 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	18	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2369194-02 A2-6020T	Rack	1		
Analysis started at:	12/6/2023 6:52:57 AM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	119.239 %	109.214 %	0.002 ppb	-0.316 ppb	-7.833 ppb	3.198 ppb	0.986 ppb	-0.911 ppb	1.536 ppb
Concentration per Run 1	121.689 %	106.121 %	0.003 ppb	-0.328 ppb	-8.778 ppb	3.076 ppb	0.883 ppb	-0.972 ppb	0.040 ppb
Concentration per Run 2	118.702 %	112.694 %	0.002 ppb	-0.315 ppb	-9.606 ppb	2.447 ppb	0.847 ppb	-2.254 ppb	-3.238 ppb
Concentration per Run 3	117.325 %	108.827 %	0.001 ppb	-0.306 ppb	-5.115 ppb	4.071 ppb	1.228 ppb	0.494 ppb	7.805 ppb
Concentration RSD	1.9 %	3.0 %	46.1 %	3.5 %	30.5 %	25.6 %	21.3 %	151.0 %	369.3 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	116.907 %	-0.039 ppb	0.053 ppb	-0.030 ppb	0.810 ppb	0.001 ppb	0.002 ppb	0.007 ppb	14.742 ppb
Concentration per Run 1	121.955 %	-0.037 ppb	0.090 ppb	-0.012 ppb	0.787 ppb	-0.001 ppb	0.003 ppb	0.029 ppb	14.974 ppb
Concentration per Run 2	114.645 %	-0.037 ppb	0.024 ppb	-0.053 ppb	0.766 ppb	0.004 ppb	-0.002 ppb	-0.002 ppb	14.229 ppb
Concentration per Run 3	114.122 %	-0.044 ppb	0.045 ppb	-0.026 ppb	0.877 ppb	0.000 ppb	0.006 ppb	-0.007 ppb	15.023 ppb
Concentration RSD	3.7 %	10.2 %	63.3 %	69.6 %	7.3 %	204.9 %	197.4 %	292.1 %	3.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	112.856 %	-0.197 ppb	0.075 ppb	0.008 ppb	0.041 ppb	115.864 %	-0.001 ppb	-0.001 ppb	110.014 %
Concentration per Run 1	108.273 %	-0.212 ppb	0.144 ppb	0.009 ppb	0.007 ppb	114.686 %	-0.001 ppb	-0.001 ppb	105.354 %
Concentration per Run 2	118.910 %	-0.160 ppb	0.016 ppb	0.009 ppb	0.073 ppb	115.034 %	-0.001 ppb	-0.001 ppb	110.113 %
Concentration per Run 3	111.386 %	-0.219 ppb	0.065 ppb	0.007 ppb	0.042 ppb	117.872 %	-0.001 ppb	-0.001 ppb	114.576 %
Concentration RSD	4.8 %	16.3 %	85.8 %	17.6 %	81.4 %	1.5 %	39.4 %		4.2 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.001 ppb	0.006 ppb	117.203 %	115.925 %	-0.001 ppb	0.005 ppb	85.172 %
Concentration per Run 1	-0.004 ppb	0.011 ppb	114.098 %	112.337 %	-0.003 ppb	0.005 ppb	81.046 %
Concentration per Run 2	-0.004 ppb	-0.002 ppb	116.804 %	117.402 %	0.000 ppb	0.005 ppb	85.900 %
Concentration per Run 3	0.006 ppb	0.010 ppb	120.706 %	118.035 %	0.000 ppb	0.004 ppb	88.571 %
Concentration RSD	963.5 %	111.9 %	2.8 %	2.7 %	176.6 %	9.6 %	4.5 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	19	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2369198-01 A2-6020T	Rack	1		
Analysis started at:	12/6/2023 6:57:34 AM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	115.158 %	107.797 %	0.010 ppb	5.241 ppb	33,242.186 ppb	895.453 ppb	17.392 ppb	935.995 ppb	4,319.111 ppb
Concentration per Run 1	116.807 %	105.155 %	0.012 ppb	5.166 ppb	32,982.407 ppb	900.541 ppb	17.663 ppb	920.271 ppb	4,334.323 ppb
Concentration per Run 2	115.762 %	109.794 %	0.011 ppb	5.170 ppb	32,398.170 ppb	870.122 ppb	15.733 ppb	937.441 ppb	4,278.592 ppb
Concentration per Run 3	112.903 %	108.441 %	0.007 ppb	5.387 ppb	34,345.980 ppb	915.697 ppb	18.780 ppb	950.271 ppb	4,344.419 ppb
Concentration RSD	1.8 %	2.2 %	23.6 %	2.4 %	3.0 %	2.6 %	8.9 %	1.6 %	0.8 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	113.604 %	0.004 ppb	0.106 ppb	9.670 ppb	51.391 ppb	0.032 ppb	0.381 ppb	50.487 ppb	24.922 ppb
Concentration per Run 1	113.775 %	-0.002 ppb	0.113 ppb	9.263 ppb	52.128 ppb	0.034 ppb	0.392 ppb	50.838 ppb	25.049 ppb
Concentration per Run 2	113.439 %	0.003 ppb	0.099 ppb	9.633 ppb	48.948 ppb	0.027 ppb	0.403 ppb	49.741 ppb	24.717 ppb
Concentration per Run 3	113.597 %	0.010 ppb	0.106 ppb	10.115 ppb	53.095 ppb	0.035 ppb	0.348 ppb	50.883 ppb	24.998 ppb
Concentration RSD	0.1 %	169.5 %	6.6 %	4.4 %	4.2 %	13.6 %	7.6 %	1.3 %	0.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	116.712 %	0.368 ppb	0.071 ppb	36.234 ppb	0.128 ppb	114.509 %	0.002 ppb	0.008 ppb	111.722 %
Concentration per Run 1	113.449 %	0.519 ppb	0.061 ppb	35.678 ppb	0.092 ppb	112.927 %	0.002 ppb	0.008 ppb	110.855 %
Concentration per Run 2	119.671 %	0.283 ppb	0.060 ppb	36.082 ppb	0.080 ppb	115.955 %	0.003 ppb	0.006 ppb	113.048 %
Concentration per Run 3	117.016 %	0.301 ppb	0.091 ppb	36.942 ppb	0.213 ppb	114.645 %	0.002 ppb	0.010 ppb	111.262 %
Concentration RSD	2.7 %	35.6 %	24.4 %	1.8 %	57.2 %	1.3 %	27.5 %	22.3 %	1.0 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.057 ppb	9.400 ppb	118.878 %	118.694 %	0.072 ppb	1.226 ppb	89.164 %
Concentration per Run 1	0.055 ppb	9.685 ppb	115.385 %	112.569 %	0.058 ppb	1.227 ppb	87.688 %
Concentration per Run 2	0.049 ppb	9.327 ppb	119.187 %	121.089 %	0.083 ppb	1.255 ppb	88.492 %
Concentration per Run 3	0.066 ppb	9.188 ppb	122.061 %	122.423 %	0.075 ppb	1.196 ppb	91.312 %
Concentration RSD	15.1 %	2.7 %	2.8 %	4.5 %	18.1 %	2.4 %	2.1 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 20
Analysis label: L2369198-02 A2-6020T
Analysis started at: 12/6/2023 7:02:12 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 4
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	116.775 %	108.183 %	0.008 ppb	3.768 ppb	39,681.603 ppb	6.505 ppb	12.014 ppb	1,341.474 ppb	25.946 ppb
Concentration per Run 1	117.411 %	107.088 %	0.011 ppb	3.836 ppb	39,214.350 ppb	7.015 ppb	11.639 ppb	1,317.038 ppb	21.888 ppb
Concentration per Run 2	115.617 %	111.534 %	0.009 ppb	3.858 ppb	39,453.593 ppb	5.551 ppb	12.283 ppb	1,349.754 ppb	19.180 ppb
Concentration per Run 3	117.297 %	105.928 %	0.004 ppb	3.609 ppb	40,376.866 ppb	6.950 ppb	12.120 ppb	1,357.629 ppb	36.769 ppb
Concentration RSD	0.9 %	2.7 %	40.9 %	3.7 %	1.5 %	12.7 %	2.8 %	1.6 %	36.5 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	115.158 %	0.199 ppb	0.207 ppb	0.769 ppb	17.481 ppb	0.006 ppb	0.141 ppb	0.522 ppb	15.633 ppb
Concentration per Run 1	114.724 %	0.168 ppb	0.183 ppb	0.796 ppb	17.891 ppb	0.005 ppb	0.150 ppb	0.479 ppb	15.621 ppb
Concentration per Run 2	115.429 %	0.176 ppb	0.228 ppb	0.693 ppb	18.465 ppb	0.011 ppb	0.094 ppb	0.530 ppb	15.439 ppb
Concentration per Run 3	115.320 %	0.253 ppb	0.211 ppb	0.818 ppb	16.087 ppb	0.001 ppb	0.179 ppb	0.558 ppb	15.838 ppb
Concentration RSD	0.3 %	23.7 %	10.8 %	8.7 %	7.1 %	84.0 %	30.3 %	7.6 %	1.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	118.905 %	0.226 ppb	0.064 ppb	0.240 ppb	0.100 ppb	115.584 %	-0.001 ppb	0.002 ppb	111.437 %
Concentration per Run 1	115.843 %	0.148 ppb	0.063 ppb	0.210 ppb	0.090 ppb	115.308 %	-0.001 ppb	0.001 ppb	109.625 %
Concentration per Run 2	118.444 %	0.272 ppb	0.019 ppb	0.248 ppb	0.091 ppb	117.883 %	-0.001 ppb	0.005 ppb	112.648 %
Concentration per Run 3	122.428 %	0.258 ppb	0.111 ppb	0.262 ppb	0.121 ppb	113.562 %	-0.001 ppb	-0.001 ppb	112.038 %
Concentration RSD	2.8 %	30.1 %	71.7 %	11.1 %	17.5 %	1.9 %	27.5 %	158.8 %	1.4 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.091 ppb	0.774 ppb	117.324 %	118.325 %	0.045 ppb	0.023 ppb	86.925 %
Concentration per Run 1	0.111 ppb	0.950 ppb	115.456 %	114.271 %	0.029 ppb	0.023 ppb	85.804 %
Concentration per Run 2	0.083 ppb	0.773 ppb	117.113 %	120.924 %	0.051 ppb	0.026 ppb	85.783 %
Concentration per Run 3	0.079 ppb	0.599 ppb	119.403 %	119.779 %	0.056 ppb	0.020 ppb	89.189 %
Concentration RSD	19.0 %	22.7 %	1.7 %	3.0 %	32.2 %	13.0 %	2.3 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 21
Analysis label: L2369198-03 A2-6020T
Analysis started at: 12/6/2023 7:06:50 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 5
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	119.063 %	110.438 %	0.004 ppb	1.123 ppb	505.038 ppb	3.443 ppb	0.964 ppb	7.171 ppb	2.861 ppb
Concentration per Run 1	121.082 %	117.333 %	0.008 ppb	1.131 ppb	484.204 ppb	2.160 ppb	0.690 ppb	5.741 ppb	2.661 ppb
Concentration per Run 2	117.991 %	104.188 %	0.001 ppb	1.139 ppb	537.454 ppb	3.593 ppb	1.164 ppb	13.272 ppb	6.024 ppb
Concentration per Run 3	118.114 %	109.794 %	0.003 ppb	1.099 ppb	493.454 ppb	4.574 ppb	1.038 ppb	2.502 ppb	-0.102 ppb
Concentration RSD	1.5 %	6.0 %	84.6 %	1.9 %	5.6 %	35.3 %	25.5 %	77.0 %	107.2 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	113.504 %	-0.030 ppb	0.046 ppb	-0.059 ppb	0.693 ppb	-0.001 ppb	0.004 ppb	0.002 ppb	18.068 ppb
Concentration per Run 1	113.367 %	-0.030 ppb	0.054 ppb	-0.075 ppb	0.956 ppb	0.002 ppb	-0.013 ppb	0.008 ppb	18.197 ppb
Concentration per Run 2	112.844 %	-0.023 ppb	0.049 ppb	-0.038 ppb	0.318 ppb	-0.001 ppb	0.010 ppb	-0.007 ppb	18.101 ppb
Concentration per Run 3	114.301 %	-0.037 ppb	0.035 ppb	-0.064 ppb	0.805 ppb	-0.002 ppb	0.016 ppb	0.004 ppb	17.906 ppb
Concentration RSD	0.7 %	24.0 %	20.7 %	32.5 %	48.1 %	365.9 %	367.0 %	428.5 %	0.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	113.985 %	-0.129 ppb	-0.018 ppb	0.017 ppb	0.013 ppb	118.738 %	0.000 ppb	0.000 ppb	113.747 %
Concentration per Run 1	113.002 %	-0.110 ppb	-0.037 ppb	0.021 ppb	-0.007 ppb	121.103 %	-0.001 ppb	-0.001 ppb	114.444 %
Concentration per Run 2	112.318 %	-0.175 ppb	-0.029 ppb	0.009 ppb	0.025 ppb	118.687 %	0.001 ppb	0.001 ppb	111.057 %
Concentration per Run 3	116.634 %	-0.102 ppb	0.014 ppb	0.021 ppb	0.022 ppb	116.424 %	0.000 ppb	-0.001 ppb	115.741 %
Concentration RSD	2.0 %	31.1 %	157.1 %	41.6 %	129.4 %	2.0 %	290.6 %	1,265.0 %	2.1 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.003 ppb	0.026 ppb	119.109 %	117.897 %	0.000 ppb	0.011 ppb	85.873 %
Concentration per Run 1	-0.003 ppb	0.010 ppb	117.235 %	118.145 %	-0.001 ppb	0.010 ppb	84.734 %
Concentration per Run 2	-0.001 ppb	0.034 ppb	120.776 %	118.087 %	0.002 ppb	0.014 ppb	84.636 %
Concentration per Run 3	-0.005 ppb	0.033 ppb	119.317 %	117.457 %	0.001 ppb	0.011 ppb	88.249 %
Concentration RSD	71.2 %	53.1 %	1.5 %	0.3 %	468.4 %	16.5 %	2.4 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	22	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2369198-04 A2-6020T	Rack	1		
Analysis started at:	12/6/2023 7:11:29 AM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	119.622 %	113.918 %	0.002 ppb	-0.082 ppb	-8.813 ppb	3.297 ppb	0.797 ppb	-4.962 ppb	5.933 ppb
Concentration per Run 1	119.738 %	113.467 %	0.000 ppb	-0.060 ppb	-6.935 ppb	2.706 ppb	1.263 ppb	-5.916 ppb	0.776 ppb
Concentration per Run 2	120.144 %	119.459 %	-0.001 ppb	-0.115 ppb	-11.215 ppb	3.228 ppb	0.394 ppb	-12.390 ppb	4.156 ppb
Concentration per Run 3	118.983 %	108.827 %	0.006 ppb	-0.071 ppb	-8.289 ppb	3.957 ppb	0.734 ppb	3.421 ppb	12.868 ppb
Concentration RSD	0.5 %	4.7 %	204.3 %	35.6 %	24.8 %	19.1 %	54.9 %	160.2 %	105.1 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	117.062 %	-0.021 ppb	0.042 ppb	-0.040 ppb	0.377 ppb	-0.001 ppb	-0.006 ppb	0.003 ppb	15.142 ppb
Concentration per Run 1	113.160 %	-0.030 ppb	0.032 ppb	-0.017 ppb	-0.138 ppb	-0.001 ppb	-0.009 ppb	0.002 ppb	15.130 ppb
Concentration per Run 2	117.612 %	-0.004 ppb	0.053 ppb	-0.042 ppb	0.239 ppb	-0.001 ppb	0.002 ppb	0.007 ppb	14.641 ppb
Concentration per Run 3	120.413 %	-0.030 ppb	0.041 ppb	-0.062 ppb	1.028 ppb	-0.001 ppb	-0.012 ppb	0.000 ppb	15.656 ppb
Concentration RSD	3.1 %	69.4 %	25.2 %	55.9 %	158.1 %	11.1 %	121.7 %	138.9 %	3.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	113.481 %	-0.156 ppb	0.032 ppb	0.025 ppb	0.024 ppb	117.008 %	-0.001 ppb	-0.001 ppb	113.492 %
Concentration per Run 1	113.899 %	-0.135 ppb	0.020 ppb	0.031 ppb	0.026 ppb	115.191 %	-0.001 ppb	-0.001 ppb	110.616 %
Concentration per Run 2	115.860 %	-0.150 ppb	0.060 ppb	0.022 ppb	0.025 ppb	118.838 %	0.000 ppb	-0.001 ppb	116.028 %
Concentration per Run 3	110.684 %	-0.183 ppb	0.015 ppb	0.021 ppb	0.022 ppb	116.994 %	0.000 ppb	-0.001 ppb	113.834 %
Concentration RSD	2.3 %	15.6 %	76.7 %	23.2 %	8.7 %	1.6 %	93.9 %		2.4 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.001 ppb	0.026 ppb	119.049 %	117.642 %	-0.002 ppb	0.003 ppb	85.450 %
Concentration per Run 1	0.003 ppb	0.010 ppb	118.597 %	115.247 %	-0.004 ppb	0.003 ppb	83.906 %
Concentration per Run 2	-0.001 ppb	0.034 ppb	116.994 %	118.096 %	-0.001 ppb	0.003 ppb	86.699 %
Concentration per Run 3	-0.006 ppb	0.033 ppb	121.557 %	119.583 %	-0.003 ppb	0.002 ppb	85.745 %
Concentration RSD	378.4 %	52.2 %	1.9 %	1.9 %	51.4 %	19.9 %	1.7 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	23	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2369200-01 A2-6020T	Rack	1		
Analysis started at:	12/6/2023 7:16:08 AM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	117.370 %	113.789 %	0.007 ppb	4.955 ppb	32,791.209 ppb	847.513 ppb	15.098 ppb	941.120 ppb	4,701.163 ppb
Concentration per Run 1	121.475 %	109.021 %	0.005 ppb	4.914 ppb	34,935.268 ppb	893.731 ppb	15.769 ppb	970.936 ppb	4,809.234 ppb
Concentration per Run 2	117.779 %	119.072 %	0.009 ppb	4.967 ppb	31,133.356 ppb	821.909 ppb	14.220 ppb	898.313 ppb	4,683.704 ppb
Concentration per Run 3	112.856 %	113.273 %	0.006 ppb	4.983 ppb	32,305.004 ppb	826.899 ppb	15.305 ppb	954.110 ppb	4,610.550 ppb
Concentration RSD	3.7 %	4.4 %	26.0 %	0.7 %	5.9 %	4.7 %	5.3 %	4.0 %	2.1 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	115.337 %	-0.006 ppb	0.097 ppb	6.397 ppb	48.190 ppb	0.018 ppb	0.326 ppb	22.459 ppb	16.606 ppb
Concentration per Run 1	116.895 %	0.011 ppb	0.112 ppb	6.197 ppb	52.214 ppb	0.024 ppb	0.384 ppb	23.420 ppb	17.309 ppb
Concentration per Run 2	114.750 %	-0.025 ppb	0.088 ppb	6.603 ppb	49.356 ppb	0.020 ppb	0.262 ppb	21.580 ppb	15.966 ppb
Concentration per Run 3	114.366 %	-0.004 ppb	0.092 ppb	6.389 ppb	43.001 ppb	0.010 ppb	0.333 ppb	22.377 ppb	16.543 ppb
Concentration RSD	1.2 %	298.9 %	12.9 %	3.2 %	9.8 %	40.7 %	18.8 %	4.1 %	4.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	118.013 %	0.425 ppb	0.119 ppb	38.808 ppb	0.080 ppb	116.466 %	0.001 ppb	0.003 ppb	113.514 %
Concentration per Run 1	115.050 %	0.626 ppb	0.201 ppb	38.937 ppb	0.050 ppb	115.261 %	0.002 ppb	0.005 ppb	109.918 %
Concentration per Run 2	120.689 %	0.313 ppb	0.182 ppb	38.756 ppb	0.057 ppb	115.334 %	0.001 ppb	0.005 ppb	114.241 %
Concentration per Run 3	118.301 %	0.338 ppb	-0.026 ppb	38.730 ppb	0.133 ppb	118.802 %	-0.001 ppb	0.001 ppb	116.384 %
Concentration RSD	2.4 %	40.8 %	105.7 %	0.3 %	57.5 %	1.7 %	285.7 %	60.4 %	2.9 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.044 ppb	9.334 ppb	119.016 %	118.356 %	0.050 ppb	0.309 ppb	88.747 %
Concentration per Run 1	0.044 ppb	8.948 ppb	117.548 %	116.642 %	0.042 ppb	0.318 ppb	86.845 %
Concentration per Run 2	0.029 ppb	9.305 ppb	119.452 %	118.613 %	0.058 ppb	0.302 ppb	87.899 %
Concentration per Run 3	0.061 ppb	9.750 ppb	120.050 %	119.813 %	0.050 ppb	0.305 ppb	91.497 %
Concentration RSD	36.0 %	4.3 %	1.1 %	1.4 %	16.0 %	2.7 %	2.7 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 24
Analysis label: L2369200-02 A2-6020T
Analysis started at: 12/6/2023 7:20:47 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 8
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	121.456 %	109.150 %	0.004 ppb	-0.283 ppb	-8.144 ppb	2.989 ppb	0.913 ppb	-3.026 ppb	-6.154 ppb
Concentration per Run 1	123.315 %	100.709 %	0.006 ppb	-0.273 ppb	-4.096 ppb	1.514 ppb	1.227 ppb	0.128 ppb	-5.284 ppb
Concentration per Run 2	122.436 %	114.433 %	0.001 ppb	-0.303 ppb	-8.981 ppb	3.700 ppb	1.005 ppb	-0.243 ppb	-7.998 ppb
Concentration per Run 3	118.618 %	112.307 %	0.004 ppb	-0.273 ppb	-11.356 ppb	3.754 ppb	0.508 ppb	-8.962 ppb	-5.180 ppb
Concentration RSD	2.1 %	6.8 %	61.3 %	6.1 %	45.5 %	42.8 %	40.3 %	170.0 %	26.0 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	115.452 %	-0.023 ppb	0.070 ppb	-0.012 ppb	0.990 ppb	0.002 ppb	0.040 ppb	0.022 ppb	14.275 ppb
Concentration per Run 1	115.089 %	-0.015 ppb	0.075 ppb	0.023 ppb	0.616 ppb	0.000 ppb	0.011 ppb	0.022 ppb	14.056 ppb
Concentration per Run 2	114.722 %	-0.044 ppb	0.074 ppb	-0.053 ppb	1.046 ppb	0.004 ppb	0.049 ppb	0.025 ppb	14.394 ppb
Concentration per Run 3	116.546 %	-0.011 ppb	0.061 ppb	-0.008 ppb	1.309 ppb	0.003 ppb	0.061 ppb	0.019 ppb	14.377 ppb
Concentration RSD	0.8 %	77.2 %	11.6 %	307.5 %	35.3 %	73.8 %	65.3 %	14.3 %	1.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	115.986 %	-0.230 ppb	0.004 ppb	0.007 ppb	0.035 ppb	118.793 %	-0.001 ppb	-0.001 ppb	111.664 %
Concentration per Run 1	112.252 %	-0.154 ppb	0.067 ppb	0.011 ppb	0.014 ppb	118.416 %	-0.001 ppb	-0.001 ppb	106.093 %
Concentration per Run 2	117.316 %	-0.241 ppb	-0.029 ppb	0.001 ppb	0.013 ppb	119.505 %	-0.001 ppb	-0.001 ppb	113.944 %
Concentration per Run 3	118.392 %	-0.294 ppb	-0.026 ppb	0.011 ppb	0.079 ppb	118.458 %	-0.001 ppb	-0.001 ppb	114.954 %
Concentration RSD	2.8 %	30.7 %	1,263.9 %	80.8 %	108.0 %	0.5 %	40.2 %		4.3 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.005 ppb	0.006 ppb	117.889 %	115.635 %	-0.003 ppb	0.004 ppb	84.437 %
Concentration per Run 1	-0.005 ppb	-0.001 ppb	113.389 %	110.855 %	-0.005 ppb	0.003 ppb	81.106 %
Concentration per Run 2	-0.006 ppb	0.022 ppb	118.925 %	116.541 %	-0.001 ppb	0.004 ppb	86.236 %
Concentration per Run 3	-0.003 ppb	-0.002 ppb	121.353 %	119.509 %	-0.002 ppb	0.004 ppb	85.970 %
Concentration RSD	26.1 %	226.0 %	3.5 %	3.8 %	79.4 %	11.9 %	3.4 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	25	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2369204-01 A2-6020T	Rack	1		
Analysis started at:	12/6/2023 7:25:26 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	116.046 %	109.472 %	0.007 ppb	10.249 ppb	42,126.250 ppb	3,000.886 ppb	5.566 ppb	13,886.956 ppb	15,915.450 ppb
Concentration per Run 1	118.619 %	106.894 %	0.008 ppb	10.112 ppb	41,072.312 ppb	2,973.696 ppb	5.067 ppb	13,751.513 ppb	15,922.616 ppb
Concentration per Run 2	115.814 %	115.786 %	0.007 ppb	10.300 ppb	41,672.044 ppb	2,927.686 ppb	5.922 ppb	14,075.306 ppb	15,808.373 ppb
Concentration per Run 3	113.706 %	105.735 %	0.007 ppb	10.334 ppb	43,634.395 ppb	3,101.277 ppb	5.709 ppb	13,834.050 ppb	16,015.361 ppb
Concentration RSD	2.1 %	5.0 %	8.0 %	1.2 %	3.2 %	3.0 %	8.0 %	1.2 %	0.7 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	116.137 %	0.077 ppb	0.176 ppb	2.686 ppb	13.053 ppb	0.061 ppb	0.486 ppb	154.038 ppb	153.728 ppb
Concentration per Run 1	117.207 %	0.082 ppb	0.164 ppb	2.717 ppb	13.901 ppb	0.056 ppb	0.480 ppb	157.152 ppb	151.776 ppb
Concentration per Run 2	116.546 %	0.064 ppb	0.171 ppb	2.738 ppb	12.139 ppb	0.059 ppb	0.501 ppb	153.817 ppb	155.580 ppb
Concentration per Run 3	114.660 %	0.084 ppb	0.192 ppb	2.601 ppb	13.120 ppb	0.068 ppb	0.477 ppb	151.145 ppb	153.827 ppb
Concentration RSD	1.1 %	14.8 %	8.3 %	2.8 %	6.8 %	10.3 %	2.7 %	2.0 %	1.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	114.893 %	-0.005 ppb	0.059 ppb	83.583 ppb	0.271 ppb	114.177 %	0.004 ppb	0.006 ppb	110.955 %
Concentration per Run 1	111.732 %	0.104 ppb	0.021 ppb	80.581 ppb	0.246 ppb	111.532 %	0.004 ppb	0.003 ppb	106.764 %
Concentration per Run 2	114.200 %	-0.075 ppb	0.140 ppb	86.192 ppb	0.285 ppb	113.729 %	0.004 ppb	0.010 ppb	114.954 %
Concentration per Run 3	118.748 %	-0.044 ppb	0.016 ppb	83.976 ppb	0.282 ppb	117.269 %	0.005 ppb	0.005 ppb	111.147 %
Concentration RSD	3.1 %	1,954.5 %	118.7 %	3.4 %	8.0 %	2.5 %	21.1 %	60.9 %	3.7 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.048 ppb	19.522 ppb	118.772 %	117.923 %	0.058 ppb	0.261 ppb	84.720 %
Concentration per Run 1	0.047 ppb	19.266 ppb	115.559 %	113.934 %	0.052 ppb	0.272 ppb	81.394 %
Concentration per Run 2	0.043 ppb	20.112 ppb	120.140 %	117.264 %	0.068 ppb	0.259 ppb	85.990 %
Concentration per Run 3	0.055 ppb	19.189 ppb	120.617 %	122.570 %	0.054 ppb	0.252 ppb	86.775 %
Concentration RSD	12.3 %	2.6 %	2.4 %	3.7 %	14.8 %	3.9 %	3.4 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 26
Analysis label: L2369204-02 A2-6020T
Analysis started at: 12/6/2023 7:30:06 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	124.195 %	119.588 %	0.006 ppb	-0.311 ppb	-14.666 ppb	2.525 ppb	0.944 ppb	-6.555 ppb	-6.509 ppb
Concentration per Run 1	128.980 %	120.232 %	0.006 ppb	-0.337 ppb	-21.880 ppb	2.889 ppb	0.817 ppb	-5.825 ppb	-3.255 ppb
Concentration per Run 2	125.100 %	115.206 %	0.007 ppb	-0.306 ppb	-7.134 ppb	2.881 ppb	1.004 ppb	-8.844 ppb	-4.231 ppb
Concentration per Run 3	118.506 %	123.325 %	0.005 ppb	-0.289 ppb	-14.984 ppb	1.805 ppb	1.012 ppb	-4.997 ppb	-12.041 ppb
Concentration RSD	4.3 %	3.4 %	22.0 %	7.8 %	50.3 %	24.7 %	11.7 %	30.9 %	74.0 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	116.582 %	-0.019 ppb	0.058 ppb	-0.026 ppb	0.250 ppb	0.002 ppb	-0.002 ppb	0.037 ppb	13.959 ppb
Concentration per Run 1	118.891 %	-0.004 ppb	0.064 ppb	-0.030 ppb	0.664 ppb	0.001 ppb	-0.018 ppb	0.035 ppb	13.994 ppb
Concentration per Run 2	117.680 %	-0.017 ppb	0.060 ppb	-0.041 ppb	0.253 ppb	0.004 ppb	0.011 ppb	0.035 ppb	13.867 ppb
Concentration per Run 3	113.176 %	-0.037 ppb	0.049 ppb	-0.009 ppb	-0.168 ppb	0.000 ppb	0.002 ppb	0.040 ppb	14.015 ppb
Concentration RSD	2.6 %	86.7 %	13.9 %	62.1 %	166.5 %	103.7 %	980.7 %	8.4 %	0.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	114.919 %	-0.131 ppb	0.014 ppb	0.009 ppb	0.030 ppb	119.327 %	-0.001 ppb	-0.001 ppb	117.312 %
Concentration per Run 1	113.622 %	-0.199 ppb	0.113 ppb	0.009 ppb	0.018 ppb	116.563 %	-0.001 ppb	-0.001 ppb	113.288 %
Concentration per Run 2	115.731 %	-0.195 ppb	-0.043 ppb	0.016 ppb	0.024 ppb	119.879 %	0.000 ppb	-0.001 ppb	119.078 %
Concentration per Run 3	115.405 %	0.003 ppb	-0.029 ppb	0.003 ppb	0.047 ppb	121.540 %	-0.001 ppb	-0.001 ppb	119.571 %
Concentration RSD	1.0 %	88.4 %	619.4 %	68.6 %	50.9 %	2.1 %	121.6 %		3.0 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.003 ppb	0.009 ppb	118.449 %	118.783 %	-0.003 ppb	0.005 ppb	85.574 %
Concentration per Run 1	-0.001 ppb	0.010 ppb	114.570 %	115.186 %	-0.005 ppb	0.006 ppb	83.328 %
Concentration per Run 2	-0.006 ppb	-0.002 ppb	118.274 %	118.390 %	-0.002 ppb	0.005 ppb	85.293 %
Concentration per Run 3	-0.003 ppb	0.020 ppb	122.504 %	122.773 %	-0.002 ppb	0.005 ppb	88.100 %
Concentration RSD	86.5 %	120.3 %	3.4 %	3.2 %	60.2 %	13.8 %	2.8 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	27	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 7:34:46 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	104.195 %	121.779 %	62.578 ppb	62.002 ppb	6,205.853 ppb	6,089.267 ppb	61.754 ppb	6,218.133 ppb	6,349.161 ppb
Concentration per Run 1	106.218 %	116.366 %	64.049 ppb	63.170 ppb	6,284.313 ppb	6,182.303 ppb	65.264 ppb	6,322.943 ppb	6,555.755 ppb
Concentration per Run 2	103.674 %	128.738 %	63.353 ppb	62.668 ppb	5,877.150 ppb	5,705.650 ppb	55.847 ppb	6,059.507 ppb	6,105.155 ppb
Concentration per Run 3	102.694 %	120.232 %	60.331 ppb	60.169 ppb	6,456.096 ppb	6,379.849 ppb	64.153 ppb	6,271.951 ppb	6,386.572 ppb
Recovery Percentage 1			104.296 %	103.337 %	103.431 %	101.488 %	102.924 %	103.636 %	105.819 %
Concentration RSD	1.7 %	5.2 %	3.2 %	2.6 %	4.8 %	5.7 %	8.3 %	2.2 %	3.6 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	122.569 %	60.745 ppb	60.770 ppb	62.198 ppb	6,210.904 ppb	62.265 ppb	60.977 ppb	62.574 ppb	61.649 ppb
Concentration per Run 1	121.193 %	61.138 ppb	59.679 ppb	59.695 ppb	6,017.827 ppb	60.709 ppb	60.419 ppb	61.779 ppb	61.245 ppb
Concentration per Run 2	121.713 %	56.846 ppb	59.483 ppb	60.510 ppb	6,176.814 ppb	61.592 ppb	59.861 ppb	60.077 ppb	59.925 ppb
Concentration per Run 3	124.800 %	64.252 ppb	63.147 ppb	66.388 ppb	6,438.070 ppb	64.496 ppb	62.650 ppb	65.867 ppb	63.778 ppb
Recovery Percentage 1		101.242 %	101.283 %	103.663 %	103.515 %	103.776 %	101.628 %	104.291 %	102.749 %
Concentration RSD	1.6 %	6.1 %	3.4 %	5.9 %	3.4 %	3.2 %	2.4 %	4.8 %	3.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	120.534 %	60.847 ppb	57.694 ppb	59.724 ppb	61.729 ppb	122.812 %	60.455 ppb	61.007 ppb	119.699 %
Concentration per Run 1	120.105 %	60.358 ppb	53.862 ppb	58.669 ppb	60.917 ppb	122.228 %	60.618 ppb	61.218 ppb	119.040 %
Concentration per Run 2	122.876 %	59.336 ppb	56.868 ppb	59.212 ppb	61.868 ppb	122.935 %	60.359 ppb	61.451 ppb	118.715 %
Concentration per Run 3	118.620 %	62.848 ppb	62.352 ppb	61.292 ppb	62.404 ppb	123.271 %	60.389 ppb	60.353 ppb	121.343 %
Recovery Percentage 1		101.412 %	96.157 %	99.540 %	102.882 %		100.759 %	101.679 %	
Concentration RSD	1.8 %	3.0 %	7.5 %	2.3 %	1.2 %	0.4 %	0.2 %	0.9 %	1.2 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.508 ppb	59.162 ppb	121.116 %	120.203 %	56.561 ppb	58.320 ppb	160.088 %
Concentration per Run 1	59.646 ppb	59.500 ppb	120.041 %	117.893 %	54.193 ppb	59.773 ppb	196.613 %
Concentration per Run 2	59.467 ppb	59.021 ppb	121.602 %	121.354 %	61.579 ppb	56.929 ppb	146.688 %
Concentration per Run 3	59.410 ppb	58.965 ppb	121.705 %	121.361 %	53.912 ppb	58.258 ppb	136.962 %
Recovery Percentage 1	99.179 %	98.603 %			94.268 %	97.200 %	
Concentration RSD	0.2 %	0.5 %	0.8 %	1.7 %	7.7 %	2.4 %	20.0 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	28	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 7:39:28 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	104.283 %	127.578 %	0.018 ppb	-0.351 ppb	-19.875 ppb	0.163 ppb	-0.037 ppb	-3.167 ppb	-1.637 ppb
Concentration per Run 1	105.752 %	127.578 %	0.022 ppb	-0.361 ppb	-20.908 ppb	-0.006 ppb	0.122 ppb	-0.850 ppb	-0.570 ppb
Concentration per Run 2	103.283 %	120.812 %	0.014 ppb	-0.298 ppb	-15.749 ppb	0.135 ppb	0.124 ppb	-1.688 ppb	0.380 ppb
Concentration per Run 3	103.815 %	134.343 %	0.018 ppb	-0.395 ppb	-22.969 ppb	0.361 ppb	-0.358 ppb	-6.961 ppb	-4.721 ppb
Recovery Percentage 1			3.611 %	-3.512 %	-19.875 %	0.233 %	-0.375 %	-3.167 %	-1.637 %
Concentration RSD	1.2 %	5.3 %	22.5 %	14.0 %	18.7 %	113.4 %	741.4 %	104.6 %	165.7 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	109.005 %	-0.009 ppb	-0.027 ppb	-0.011 ppb	8.988 ppb	0.004 ppb	0.038 ppb	0.042 ppb	0.288 ppb
Concentration per Run 1	109.696 %	-0.044 ppb	-0.001 ppb	-0.013 ppb	9.054 ppb	0.006 ppb	0.043 ppb	0.040 ppb	0.314 ppb
Concentration per Run 2	105.808 %	0.000 ppb	-0.038 ppb	-0.004 ppb	8.898 ppb	0.001 ppb	0.025 ppb	0.027 ppb	0.307 ppb
Concentration per Run 3	111.510 %	0.017 ppb	-0.040 ppb	-0.015 ppb	9.013 ppb	0.007 ppb	0.045 ppb	0.059 ppb	0.244 ppb
Recovery Percentage 1		-0.180 %	-2.656 %	-1.088 %	17.977 %	0.888 %	1.898 %	4.205 %	5.763 %
Concentration RSD	2.7 %	349.1 %	82.3 %	54.5 %	0.9 %	68.7 %	29.0 %	38.3 %	13.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	123.537 %	-0.241 ppb	0.342 ppb	0.017 ppb	0.719 ppb	124.191 %	0.006 ppb	0.000 ppb	119.732 %
Concentration per Run 1	121.773 %	-0.288 ppb	0.398 ppb	0.013 ppb	0.666 ppb	123.735 %	0.005 ppb	0.001 ppb	119.643 %
Concentration per Run 2	126.600 %	-0.265 ppb	0.391 ppb	0.010 ppb	0.690 ppb	124.259 %	0.008 ppb	-0.001 ppb	116.805 %
Concentration per Run 3	122.239 %	-0.169 ppb	0.236 ppb	0.028 ppb	0.799 ppb	124.579 %	0.004 ppb	0.001 ppb	122.748 %
Recovery Percentage 1		-48.127 %	6.836 %	0.169 %	35.927 %		1.439 %	0.209 %	
Concentration RSD	2.2 %	26.4 %	26.7 %	56.6 %	9.9 %	0.3 %	42.8 %	222.9 %	2.5 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.032 ppb	0.020 ppb	122.664 %	119.504 %	0.395 ppb	0.017 ppb	127.591 %
Concentration per Run 1	0.030 ppb	0.020 ppb	123.815 %	119.367 %	0.312 ppb	0.020 ppb	132.830 %
Concentration per Run 2	0.029 ppb	-0.002 ppb	123.505 %	119.901 %	0.452 ppb	0.017 ppb	127.278 %
Concentration per Run 3	0.036 ppb	0.043 ppb	120.671 %	119.243 %	0.423 ppb	0.014 ppb	122.665 %
Recovery Percentage 1	0.797 %	4.053 %			39.541 %	1.702 %	
Concentration RSD	12.7 %	112.4 %	1.4 %	0.3 %	18.7 %	17.0 %	4.0 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 29
Analysis label: L2369465-01 A2-6020T
Analysis started at: 12/6/2023 7:45:29 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 11
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	112.360 %	119.459 %	0.014 ppb	5.446 ppb	33,273.993 ppb	875.369 ppb	16.843 ppb	964.382 ppb	4,569.705 ppb
Concentration per Run 1	115.371 %	126.031 %	0.016 ppb	5.301 ppb	30,977.639 ppb	805.271 ppb	15.561 ppb	922.526 ppb	4,329.283 ppb
Concentration per Run 2	111.462 %	117.139 %	0.017 ppb	5.524 ppb	34,793.537 ppb	928.395 ppb	16.797 ppb	1,022.080 ppb	4,735.593 ppb
Concentration per Run 3	110.248 %	115.206 %	0.011 ppb	5.512 ppb	34,050.801 ppb	892.441 ppb	18.173 ppb	948.541 ppb	4,644.237 ppb
Concentration RSD	2.4 %	4.8 %	21.5 %	2.3 %	6.1 %	7.2 %	7.8 %	5.4 %	4.7 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	117.441 %	0.007 ppb	0.203 ppb	10.144 ppb	45.790 ppb	0.022 ppb	0.328 ppb	3.042 ppb	22.440 ppb
Concentration per Run 1	117.449 %	0.013 ppb	0.188 ppb	9.750 ppb	46.890 ppb	0.037 ppb	0.292 ppb	2.926 ppb	22.241 ppb
Concentration per Run 2	116.733 %	0.019 ppb	0.233 ppb	10.480 ppb	47.692 ppb	0.015 ppb	0.309 ppb	3.093 ppb	22.505 ppb
Concentration per Run 3	118.142 %	-0.011 ppb	0.188 ppb	10.202 ppb	42.788 ppb	0.016 ppb	0.384 ppb	3.108 ppb	22.572 ppb
Concentration RSD	0.6 %	238.0 %	12.7 %	3.6 %	5.7 %	56.4 %	15.0 %	3.3 %	0.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	122.981 %	0.305 ppb	0.200 ppb	36.300 ppb	0.227 ppb	122.541 %	0.001 ppb	0.005 ppb	121.303 %
Concentration per Run 1	121.828 %	0.293 ppb	0.227 ppb	35.113 ppb	0.170 ppb	121.472 %	0.002 ppb	0.004 ppb	116.841 %
Concentration per Run 2	126.803 %	0.269 ppb	0.049 ppb	37.911 ppb	0.244 ppb	122.601 %	0.000 ppb	0.004 ppb	124.959 %
Concentration per Run 3	120.313 %	0.352 ppb	0.325 ppb	35.875 ppb	0.266 ppb	123.551 %	0.001 ppb	0.006 ppb	122.107 %
Concentration RSD	2.8 %	14.1 %	70.0 %	4.0 %	22.1 %	0.8 %	87.8 %	19.1 %	3.4 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.044 ppb	9.073 ppb	126.579 %	126.615 %	0.151 ppb	0.047 ppb	102.549 %
Concentration per Run 1	0.050 ppb	9.323 ppb	124.435 %	124.252 %	0.119 ppb	0.046 ppb	100.012 %
Concentration per Run 2	0.042 ppb	9.216 ppb	132.993 %	133.952 %	0.170 ppb	0.047 ppb	104.960 %
Concentration per Run 3	0.040 ppb	8.680 ppb	122.310 %	121.640 %	0.164 ppb	0.049 ppb	102.675 %
Concentration RSD	12.5 %	3.8 %	4.5 %	5.1 %	18.6 %	3.7 %	2.4 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 30
Analysis label: L2369465-02 A2-6020T
Analysis started at: 12/6/2023 7:50:10 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 12
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	112.147 %	112.436 %	0.007 ppb	3.770 ppb	41,585.945 ppb	3.818 ppb	14.805 ppb	11.230 ppb	2.092 ppb
Concentration per Run 1	113.479 %	111.340 %	0.007 ppb	3.858 ppb	41,984.556 ppb	4.354 ppb	14.371 ppb	8.489 ppb	-1.405 ppb
Concentration per Run 2	111.505 %	115.400 %	0.008 ppb	3.686 ppb	42,035.595 ppb	3.196 ppb	14.034 ppb	10.463 ppb	0.292 ppb
Concentration per Run 3	111.458 %	110.567 %	0.007 ppb	3.767 ppb	40,737.682 ppb	3.904 ppb	16.010 ppb	14.739 ppb	7.389 ppb
Concentration RSD	1.0 %	2.3 %	5.8 %	2.3 %	1.8 %	15.3 %	7.1 %	28.4 %	223.0 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	112.294 %	0.087 ppb	0.144 ppb	1.773 ppb	22.818 ppb	0.015 ppb	0.140 ppb	1.031 ppb	18.016 ppb
Concentration per Run 1	112.348 %	0.029 ppb	0.150 ppb	1.993 ppb	24.094 ppb	0.013 ppb	0.155 ppb	0.998 ppb	18.019 ppb
Concentration per Run 2	112.973 %	0.098 ppb	0.146 ppb	1.747 ppb	23.716 ppb	0.012 ppb	0.093 ppb	1.007 ppb	18.119 ppb
Concentration per Run 3	111.561 %	0.134 ppb	0.137 ppb	1.580 ppb	20.645 ppb	0.019 ppb	0.172 ppb	1.088 ppb	17.910 ppb
Concentration RSD	0.6 %	61.7 %	4.6 %	11.7 %	8.3 %	26.1 %	29.4 %	4.8 %	0.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	123.682 %	0.411 ppb	0.078 ppb	0.018 ppb	0.127 ppb	116.595 %	0.000 ppb	0.000 ppb	116.562 %
Concentration per Run 1	120.165 %	0.387 ppb	0.104 ppb	0.016 ppb	0.108 ppb	115.846 %	0.001 ppb	0.001 ppb	112.428 %
Concentration per Run 2	130.453 %	0.486 ppb	0.091 ppb	0.021 ppb	0.103 ppb	117.250 %	-0.001 ppb	-0.001 ppb	120.995 %
Concentration per Run 3	120.428 %	0.361 ppb	0.038 ppb	0.016 ppb	0.169 ppb	116.689 %	0.001 ppb	0.001 ppb	116.263 %
Concentration RSD	4.7 %	16.0 %	44.7 %	14.3 %	29.1 %	0.6 %	2,171.1 %	204.0 %	3.7 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.046 ppb	0.056 ppb	120.013 %	123.407 %	0.074 ppb	0.022 ppb	91.894 %
Concentration per Run 1	0.050 ppb	0.095 ppb	117.597 %	121.054 %	0.043 ppb	0.025 ppb	90.460 %
Concentration per Run 2	0.050 ppb	0.077 ppb	124.126 %	129.568 %	0.089 ppb	0.022 ppb	93.275 %
Concentration per Run 3	0.036 ppb	-0.002 ppb	118.317 %	119.598 %	0.090 ppb	0.019 ppb	91.946 %
Concentration RSD	17.2 %	91.4 %	3.0 %	4.4 %	36.2 %	12.4 %	1.5 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	31	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2369465-03 A2-6020T	Rack	1		
Analysis started at:	12/6/2023 7:54:50 AM	Vial	13		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	114.215 %	108.505 %	0.006 ppb	4.029 ppb	43,848.573 ppb	4.541 ppb	60.286 ppb	15.350 ppb	17.350 ppb
Concentration per Run 1	114.774 %	106.894 %	0.002 ppb	3.966 ppb	43,898.491 ppb	5.535 ppb	57.793 ppb	21.658 ppb	12.834 ppb
Concentration per Run 2	114.720 %	112.500 %	0.010 ppb	4.117 ppb	45,012.710 ppb	4.822 ppb	62.506 ppb	17.676 ppb	14.888 ppb
Concentration per Run 3	113.151 %	106.121 %	0.006 ppb	4.006 ppb	42,634.517 ppb	3.268 ppb	60.560 ppb	6.716 ppb	24.330 ppb
Concentration RSD	0.8 %	3.2 %	62.4 %	1.9 %	2.7 %	25.5 %	3.9 %	50.4 %	35.3 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	115.076 %	0.054 ppb	0.169 ppb	1.982 ppb	29.902 ppb	0.014 ppb	0.181 ppb	1.505 ppb	18.997 ppb
Concentration per Run 1	112.752 %	0.051 ppb	0.144 ppb	2.219 ppb	34.144 ppb	0.020 ppb	0.196 ppb	1.458 ppb	19.121 ppb
Concentration per Run 2	117.690 %	0.064 ppb	0.176 ppb	1.972 ppb	29.170 ppb	0.010 ppb	0.183 ppb	1.559 ppb	19.158 ppb
Concentration per Run 3	114.787 %	0.047 ppb	0.187 ppb	1.755 ppb	26.391 ppb	0.013 ppb	0.166 ppb	1.497 ppb	18.711 ppb
Concentration RSD	2.2 %	16.6 %	13.0 %	11.7 %	13.1 %	34.9 %	8.3 %	3.4 %	1.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	122.760 %	0.392 ppb	0.072 ppb	0.035 ppb	0.129 ppb	119.967 %	-0.001 ppb	0.002 ppb	115.688 %
Concentration per Run 1	117.038 %	0.362 ppb	0.065 ppb	0.043 ppb	0.104 ppb	116.408 %	-0.001 ppb	0.003 ppb	110.780 %
Concentration per Run 2	125.788 %	0.490 ppb	0.004 ppb	0.027 ppb	0.153 ppb	125.508 %	-0.001 ppb	0.003 ppb	121.611 %
Concentration per Run 3	125.453 %	0.323 ppb	0.147 ppb	0.036 ppb	0.131 ppb	117.987 %	0.000 ppb	0.001 ppb	114.673 %
Concentration RSD	4.0 %	22.3 %	99.8 %	22.3 %	18.8 %	4.1 %	68.9 %	44.9 %	4.7 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.053 ppb	0.164 ppb	122.334 %	124.850 %	0.052 ppb	0.051 ppb	92.665 %
Concentration per Run 1	0.054 ppb	0.277 ppb	118.730 %	121.486 %	0.032 ppb	0.050 ppb	90.508 %
Concentration per Run 2	0.061 ppb	0.065 ppb	126.088 %	129.098 %	0.061 ppb	0.053 ppb	94.272 %
Concentration per Run 3	0.045 ppb	0.150 ppb	122.183 %	123.967 %	0.064 ppb	0.051 ppb	93.216 %
Concentration RSD	14.5 %	65.1 %	3.0 %	3.1 %	34.4 %	2.6 %	2.1 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	32	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2369466-01 A2-6020T	Rack	1		
Analysis started at:	12/6/2023 7:59:27 AM	Vial	14		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	117.882 %	115.206 %	0.009 ppb	1.347 ppb	5.769 ppb	6.450 ppb	1.389 ppb	-0.791 ppb	10.727 ppb
Concentration per Run 1	120.977 %	111.147 %	0.008 ppb	1.349 ppb	9.060 ppb	5.518 ppb	1.302 ppb	6.009 ppb	9.003 ppb
Concentration per Run 2	117.856 %	122.165 %	0.006 ppb	1.322 ppb	3.351 ppb	6.459 ppb	1.454 ppb	-4.369 ppb	13.134 ppb
Concentration per Run 3	114.812 %	112.307 %	0.014 ppb	1.369 ppb	4.897 ppb	7.374 ppb	1.411 ppb	-4.013 ppb	10.044 ppb
Concentration RSD	2.6 %	5.3 %	46.2 %	1.8 %	51.2 %	14.4 %	5.7 %	745.0 %	20.0 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	113.971 %	-0.003 ppb	0.110 ppb	0.022 ppb	1.549 ppb	0.004 ppb	0.018 ppb	0.010 ppb	16.714 ppb
Concentration per Run 1	113.389 %	-0.017 ppb	0.128 ppb	-0.040 ppb	1.799 ppb	-0.003 ppb	0.060 ppb	0.002 ppb	17.381 ppb
Concentration per Run 2	114.796 %	0.006 ppb	0.108 ppb	0.103 ppb	1.296 ppb	0.008 ppb	-0.009 ppb	0.008 ppb	16.527 ppb
Concentration per Run 3	113.728 %	0.002 ppb	0.095 ppb	0.002 ppb	1.553 ppb	0.009 ppb	0.001 ppb	0.021 ppb	16.235 ppb
Concentration RSD	0.6 %	443.0 %	15.2 %	334.3 %	16.2 %	156.0 %	214.6 %	95.8 %	3.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	119.469 %	-0.260 ppb	0.043 ppb	0.024 ppb	0.026 ppb	123.084 %	0.000 ppb	0.000 ppb	119.686 %
Concentration per Run 1	113.989 %	-0.291 ppb	0.069 ppb	0.026 ppb	0.017 ppb	119.294 %	0.000 ppb	-0.001 ppb	115.735 %
Concentration per Run 2	124.646 %	-0.191 ppb	0.022 ppb	0.021 ppb	0.036 ppb	125.213 %	0.001 ppb	-0.001 ppb	126.436 %
Concentration per Run 3	119.771 %	-0.297 ppb	0.038 ppb	0.026 ppb	0.026 ppb	124.745 %	-0.001 ppb	0.001 ppb	116.885 %
Concentration RSD	4.5 %	22.9 %	54.8 %	11.1 %	36.2 %	2.7 %	1,091.5 %	883.6 %	4.9 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.002 ppb	0.025 ppb	120.626 %	121.823 %	0.009 ppb	0.006 ppb	97.586 %
Concentration per Run 1	-0.005 ppb	0.033 ppb	119.449 %	118.061 %	0.001 ppb	0.006 ppb	93.995 %
Concentration per Run 2	0.003 ppb	0.019 ppb	122.343 %	125.995 %	0.010 ppb	0.006 ppb	100.459 %
Concentration per Run 3	-0.004 ppb	0.021 ppb	120.084 %	121.413 %	0.015 ppb	0.004 ppb	98.304 %
Concentration RSD	212.6 %	30.5 %	1.3 %	3.3 %	83.8 %	22.1 %	3.4 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 33
Analysis label: CCV
Analysis started at: 12/6/2023 8:04:03 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 9
Comment CCV/MCCV

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	102.827 %	122.101 %	58.758 ppb	57.797 ppb	6,068.945 ppb	5,990.277 ppb	60.616 ppb	6,245.491 ppb	6,212.606 ppb
Concentration per Run 1	104.874 %	119.652 %	58.210 ppb	57.172 ppb	6,231.901 ppb	6,120.138 ppb	62.604 ppb	6,408.255 ppb	6,362.344 ppb
Concentration per Run 2	102.227 %	124.485 %	58.974 ppb	57.976 ppb	6,122.704 ppb	6,035.638 ppb	59.832 ppb	6,189.982 ppb	6,410.465 ppb
Concentration per Run 3	101.381 %	122.165 %	59.091 ppb	58.242 ppb	5,852.230 ppb	5,815.055 ppb	59.412 ppb	6,138.237 ppb	5,865.010 ppb
Recovery Percentage 1			97.931 %	96.328 %	101.149 %	99.838 %	101.027 %	104.092 %	103.543 %
Concentration RSD	1.8 %	2.0 %	0.8 %	1.0 %	3.2 %	2.6 %	2.9 %	2.3 %	4.9 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	119.719 %	60.533 ppb	60.593 ppb	62.227 ppb	6,105.727 ppb	60.765 ppb	60.936 ppb	59.372 ppb	60.590 ppb
Concentration per Run 1	120.745 %	62.296 ppb	61.073 ppb	61.413 ppb	6,260.192 ppb	64.176 ppb	63.815 ppb	60.491 ppb	60.990 ppb
Concentration per Run 2	119.328 %	58.423 ppb	58.666 ppb	62.097 ppb	5,926.537 ppb	57.906 ppb	58.212 ppb	58.052 ppb	59.366 ppb
Concentration per Run 3	119.084 %	60.881 ppb	62.041 ppb	63.170 ppb	6,130.452 ppb	60.215 ppb	60.781 ppb	59.573 ppb	61.415 ppb
Recovery Percentage 1		100.889 %	100.989 %	103.711 %	101.762 %	101.276 %	101.561 %	98.953 %	100.983 %
Concentration RSD	0.7 %	3.2 %	2.9 %	1.4 %	2.8 %	5.2 %	4.6 %	2.1 %	1.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	121.238 %	59.681 ppb	57.743 ppb	59.638 ppb	59.576 ppb	121.703 %	59.480 ppb	59.857 ppb	119.017 %
Concentration per Run 1	113.468 %	62.517 ppb	58.772 ppb	58.204 ppb	61.078 ppb	122.737 %	59.726 ppb	59.870 ppb	117.348 %
Concentration per Run 2	131.678 %	56.392 ppb	57.710 ppb	60.891 ppb	57.711 ppb	123.889 %	57.892 ppb	57.882 ppb	126.660 %
Concentration per Run 3	118.566 %	60.136 ppb	56.747 ppb	59.820 ppb	59.937 ppb	118.483 %	60.821 ppb	61.819 ppb	113.044 %
Recovery Percentage 1		99.469 %	96.239 %	99.397 %	99.293 %		99.133 %	99.762 %	
Concentration RSD	7.7 %	5.2 %	1.8 %	2.3 %	2.9 %	2.3 %	2.5 %	3.3 %	5.8 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.974 ppb	59.746 ppb	123.875 %	120.834 %	55.342 ppb	57.258 ppb	153.873 %
Concentration per Run 1	57.451 ppb	58.859 ppb	122.305 %	116.238 %	52.301 ppb	58.815 ppb	177.348 %
Concentration per Run 2	59.746 ppb	60.029 ppb	126.318 %	130.743 %	58.260 ppb	53.345 ppb	149.496 %
Concentration per Run 3	59.724 ppb	60.350 ppb	123.001 %	115.520 %	55.463 ppb	59.614 ppb	134.776 %
Recovery Percentage 1	98.289 %	99.577 %			92.236 %	95.430 %	
Concentration RSD	2.2 %	1.3 %	1.7 %	7.1 %	5.4 %	6.0 %	14.1 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	34	User name	ALPHALAB\Metals-Instrument	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 8:08:45 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	102.168 %	125.516 %	0.015 ppb	-0.194 ppb	-17.056 ppb	0.220 ppb	-0.390 ppb	-2.524 ppb	0.366 ppb
Concentration per Run 1	103.870 %	127.578 %	0.013 ppb	-0.217 ppb	-17.684 ppb	0.316 ppb	-0.349 ppb	-7.001 ppb	-2.376 ppb
Concentration per Run 2	101.418 %	128.158 %	0.014 ppb	-0.173 ppb	-17.896 ppb	0.410 ppb	-0.360 ppb	2.881 ppb	7.293 ppb
Concentration per Run 3	101.215 %	120.812 %	0.018 ppb	-0.191 ppb	-15.589 ppb	-0.065 ppb	-0.461 ppb	-3.453 ppb	-3.820 ppb
Recovery Percentage 1			2.970 %	-1.938 %	-17.056 %	0.315 %	-3.902 %	-2.524 %	0.366 %
Concentration RSD	1.4 %	3.3 %	16.6 %	11.4 %	7.5 %	114.3 %	15.8 %	198.3 %	1,652.3 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	107.344 %	-0.010 ppb	0.004 ppb	-0.016 ppb	10.776 ppb	0.002 ppb	0.050 ppb	0.030 ppb	0.316 ppb
Concentration per Run 1	107.568 %	-0.025 ppb	0.000 ppb	-0.002 ppb	9.638 ppb	0.002 ppb	0.064 ppb	0.020 ppb	0.286 ppb
Concentration per Run 2	106.859 %	-0.019 ppb	0.006 ppb	-0.004 ppb	9.970 ppb	0.004 ppb	0.030 ppb	0.028 ppb	0.351 ppb
Concentration per Run 3	107.606 %	0.015 ppb	0.007 ppb	-0.043 ppb	12.720 ppb	0.000 ppb	0.055 ppb	0.042 ppb	0.312 ppb
Recovery Percentage 1		-0.197 %	0.427 %	-1.623 %	21.552 %	0.453 %	2.486 %	3.016 %	6.325 %
Concentration RSD	0.4 %	216.5 %	94.4 %	142.9 %	15.7 %	96.4 %	35.2 %	36.9 %	10.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	120.611 %	-0.133 ppb	0.288 ppb	0.022 ppb	0.911 ppb	123.720 %	0.007 ppb	0.002 ppb	119.600 %
Concentration per Run 1	120.605 %	-0.113 ppb	0.365 ppb	0.017 ppb	0.880 ppb	125.417 %	0.009 ppb	-0.001 ppb	118.298 %
Concentration per Run 2	123.057 %	-0.096 ppb	0.314 ppb	0.024 ppb	0.955 ppb	122.951 %	0.006 ppb	0.004 ppb	119.664 %
Concentration per Run 3	118.172 %	-0.190 ppb	0.186 ppb	0.024 ppb	0.899 ppb	122.793 %	0.005 ppb	0.003 ppb	120.839 %
Recovery Percentage 1		-26.657 %	5.762 %	0.216 %	45.555 %		1.637 %	1.030 %	
Concentration RSD	2.0 %	37.6 %	31.9 %	18.2 %	4.3 %	1.2 %	30.3 %	121.1 %	1.1 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.029 ppb	0.028 ppb	121.994 %	121.983 %	0.420 ppb	0.018 ppb	129.068 %
Concentration per Run 1	0.026 ppb	0.021 ppb	120.935 %	124.150 %	0.322 ppb	0.020 ppb	136.144 %
Concentration per Run 2	0.029 ppb	0.032 ppb	123.760 %	121.399 %	0.490 ppb	0.019 ppb	127.028 %
Concentration per Run 3	0.031 ppb	0.032 ppb	121.288 %	120.402 %	0.448 ppb	0.015 ppb	124.031 %
Recovery Percentage 1	0.721 %	5.623 %			41.989 %	1.766 %	
Concentration RSD	8.9 %	22.5 %	1.3 %	1.6 %	20.9 %	14.4 %	4.9 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	35	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 9:05:05 AM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	88.555 %	93.106 %	57.675 ppb	55.441 ppb	5,531.326 ppb	5,974.611 ppb	59.164 ppb	6,084.680 ppb	6,442.045 ppb
Concentration per Run 1	90.798 %	90.657 %	57.531 ppb	55.127 ppb	6,635.119 ppb	6,430.662 ppb	63.748 ppb	6,532.370 ppb	6,915.426 ppb
Concentration per Run 2	88.514 %	93.363 %	57.532 ppb	55.591 ppb	5,154.622 ppb	6,060.913 ppb	60.143 ppb	5,978.240 ppb	6,412.222 ppb
Concentration per Run 3	86.352 %	95.296 %	57.962 ppb	55.605 ppb	4,804.239 ppb	5,432.259 ppb	53.601 ppb	5,743.432 ppb	5,998.486 ppb
Recovery Percentage 1			96.125 %	92.402 %	92.189 %	99.577 %	98.607 %	101.411 %	107.367 %
Concentration RSD	2.5 %	2.5 %	0.4 %	0.5 %	17.6 %	8.4 %	8.7 %	6.7 %	7.1 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	90.818 %	64.148 ppb	66.187 ppb	65.372 ppb	6,228.124 ppb	61.215 ppb	60.973 ppb	61.865 ppb	60.954 ppb
Concentration per Run 1	92.750 %	66.869 ppb	65.570 ppb	67.173 ppb	6,257.242 ppb	61.757 ppb	60.446 ppb	61.127 ppb	62.298 ppb
Concentration per Run 2	90.375 %	63.620 ppb	67.591 ppb	67.008 ppb	6,236.391 ppb	60.740 ppb	61.096 ppb	61.541 ppb	60.764 ppb
Concentration per Run 3	89.330 %	61.955 ppb	65.402 ppb	61.934 ppb	6,190.740 ppb	61.149 ppb	61.377 ppb	62.928 ppb	59.801 ppb
Recovery Percentage 1		106.913 %	110.312 %	108.953 %	103.802 %	102.025 %	101.622 %	103.109 %	101.590 %
Concentration RSD	1.9 %	3.9 %	1.8 %	4.6 %	0.5 %	0.8 %	0.8 %	1.5 %	2.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	92.699 %	58.972 ppb	58.282 ppb	62.301 ppb	63.051 ppb	92.403 %	62.217 ppb	62.220 ppb	89.148 %
Concentration per Run 1	95.483 %	58.737 ppb	61.639 ppb	65.936 ppb	63.108 ppb	91.566 %	62.289 ppb	61.917 ppb	94.974 %
Concentration per Run 2	92.244 %	59.731 ppb	57.849 ppb	62.145 ppb	61.677 ppb	93.019 %	62.732 ppb	63.371 ppb	88.263 %
Concentration per Run 3	90.370 %	58.447 ppb	55.358 ppb	58.823 ppb	64.368 ppb	92.626 %	61.630 ppb	61.373 ppb	84.208 %
Recovery Percentage 1		98.286 %	97.136 %	103.835 %	105.085 %		103.695 %	103.700 %	
Concentration RSD	2.8 %	1.1 %	5.4 %	5.7 %	2.1 %	0.8 %	0.9 %	1.7 %	6.1 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.761 ppb	62.097 ppb	93.579 %	92.253 %	55.309 ppb	55.632 ppb	102.083 %
Concentration per Run 1	62.712 ppb	62.868 ppb	94.686 %	95.391 %	54.473 ppb	50.683 ppb	115.856 %
Concentration per Run 2	60.151 ppb	63.129 ppb	92.632 %	92.625 %	54.993 ppb	57.523 ppb	96.777 %
Concentration per Run 3	59.419 ppb	60.295 ppb	93.420 %	88.742 %	56.462 ppb	58.690 ppb	93.617 %
Recovery Percentage 1	101.268 %	103.495 %			92.182 %	92.720 %	
Concentration RSD	2.8 %	2.5 %	1.1 %	3.6 %	1.9 %	7.8 %	11.8 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	36	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 9:10:31 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	83.519 %	96.907 %	0.013 ppb	0.157 ppb	2.363 ppb	0.583 ppb	0.301 ppb	9.227 ppb	1.389 ppb
Concentration per Run 1	85.539 %	93.363 %	0.017 ppb	0.164 ppb	8.136 ppb	1.825 ppb	0.343 ppb	9.770 ppb	10.218 ppb
Concentration per Run 2	84.039 %	96.070 %	0.014 ppb	0.150 ppb	1.498 ppb	-0.083 ppb	0.399 ppb	18.249 ppb	-0.048 ppb
Concentration per Run 3	80.980 %	101.289 %	0.008 ppb	0.156 ppb	-2.544 ppb	0.006 ppb	0.162 ppb	-0.339 ppb	-6.004 ppb
Recovery Percentage 1			2.533 %	1.565 %	2.363 %	0.832 %	3.015 %	9.227 %	1.389 %
Concentration RSD	2.8 %	4.2 %	35.2 %	4.6 %	228.2 %	184.8 %	41.1 %	100.9 %	590.8 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	83.600 %	0.011 ppb	0.030 ppb	0.035 ppb	8.953 ppb	0.011 ppb	0.072 ppb	0.030 ppb	0.355 ppb
Concentration per Run 1	84.602 %	-0.010 ppb	0.070 ppb	0.035 ppb	8.843 ppb	0.008 ppb	0.079 ppb	0.017 ppb	0.334 ppb
Concentration per Run 2	84.325 %	0.047 ppb	-0.019 ppb	0.003 ppb	8.119 ppb	0.011 ppb	0.066 ppb	0.023 ppb	0.362 ppb
Concentration per Run 3	81.874 %	-0.004 ppb	0.040 ppb	0.067 ppb	9.896 ppb	0.014 ppb	0.072 ppb	0.051 ppb	0.370 ppb
Recovery Percentage 1		0.218 %	3.043 %	3.508 %	17.906 %	2.183 %	3.611 %	3.021 %	7.105 %
Concentration RSD	1.8 %	287.5 %	149.1 %	91.1 %	10.0 %	30.7 %	9.5 %	60.2 %	5.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	92.700 %	0.034 ppb	0.408 ppb	0.019 ppb	0.646 ppb	91.876 %	0.003 ppb	0.002 ppb	87.086 %
Concentration per Run 1	90.523 %	0.098 ppb	0.320 ppb	0.037 ppb	0.692 ppb	87.691 %	0.003 ppb	-0.001 ppb	84.980 %
Concentration per Run 2	92.385 %	0.024 ppb	0.417 ppb	0.030 ppb	0.642 ppb	95.051 %	0.004 ppb	0.006 ppb	90.354 %
Concentration per Run 3	95.192 %	-0.019 ppb	0.489 ppb	-0.009 ppb	0.604 ppb	92.887 %	0.003 ppb	0.002 ppb	85.924 %
Recovery Percentage 1		6.866 %	8.170 %	0.194 %	32.314 %		0.789 %	1.118 %	
Concentration RSD	2.5 %	171.3 %	20.8 %	126.1 %	6.8 %	4.1 %	15.0 %	146.4 %	3.3 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.027 ppb	0.032 ppb	91.059 %	89.799 %	0.305 ppb	0.014 ppb	98.688 %
Concentration per Run 1	0.020 ppb	0.002 ppb	86.586 %	86.730 %	0.246 ppb	0.016 ppb	105.159 %
Concentration per Run 2	0.022 ppb	0.032 ppb	92.421 %	92.775 %	0.339 ppb	0.013 ppb	97.014 %
Concentration per Run 3	0.038 ppb	0.063 ppb	94.170 %	89.891 %	0.331 ppb	0.013 ppb	93.891 %
Recovery Percentage 1	0.668 %	6.460 %			30.543 %	1.382 %	
Concentration RSD	37.9 %	94.4 %	4.4 %	3.4 %	16.8 %	12.9 %	5.9 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 37
Analysis label: WG1859880-1 6020SL
Analysis started at: 12/6/2023 9:15:31 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 15
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	81.851 %	97.358 %	0.010 ppb	0.443 ppb	8.381 ppb	1.476 ppb	1.389 ppb	6.795 ppb	25.814 ppb
Concentration per Run 1	84.003 %	97.616 %	0.009 ppb	0.419 ppb	12.185 ppb	0.990 ppb	1.671 ppb	9.308 ppb	30.708 ppb
Concentration per Run 2	81.925 %	98.389 %	0.008 ppb	0.415 ppb	7.527 ppb	1.392 ppb	1.559 ppb	-3.398 ppb	28.379 ppb
Concentration per Run 3	79.625 %	96.070 %	0.013 ppb	0.496 ppb	5.431 ppb	2.046 ppb	0.937 ppb	14.474 ppb	18.355 ppb
Concentration RSD	2.7 %	1.2 %	25.6 %	10.3 %	41.2 %	36.1 %	28.5 %	135.4 %	25.4 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	84.363 %	0.007 ppb	0.142 ppb	0.722 ppb	4.251 ppb	0.003 ppb	0.037 ppb	0.103 ppb	0.232 ppb
Concentration per Run 1	83.991 %	-0.004 ppb	0.154 ppb	0.700 ppb	3.869 ppb	0.004 ppb	0.045 ppb	0.111 ppb	0.251 ppb
Concentration per Run 2	84.607 %	0.020 ppb	0.131 ppb	0.689 ppb	4.207 ppb	0.003 ppb	0.025 ppb	0.079 ppb	0.250 ppb
Concentration per Run 3	84.490 %	0.006 ppb	0.141 ppb	0.776 ppb	4.678 ppb	0.003 ppb	0.041 ppb	0.120 ppb	0.196 ppb
Concentration RSD	0.4 %	166.3 %	8.3 %	6.6 %	9.6 %	22.8 %	28.3 %	20.9 %	13.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	95.041 %	0.164 ppb	0.107 ppb	0.027 ppb	0.195 ppb	95.544 %	0.000 ppb	0.000 ppb	92.592 %
Concentration per Run 1	97.567 %	0.268 ppb	0.176 ppb	0.023 ppb	0.180 ppb	96.120 %	0.000 ppb	0.001 ppb	94.741 %
Concentration per Run 2	96.872 %	0.099 ppb	0.119 ppb	0.025 ppb	0.238 ppb	96.263 %	0.000 ppb	-0.001 ppb	93.066 %
Concentration per Run 3	90.682 %	0.124 ppb	0.025 ppb	0.033 ppb	0.168 ppb	94.249 %	-0.001 ppb	-0.001 ppb	89.969 %
Concentration RSD	4.0 %	55.5 %	71.1 %	19.2 %	19.0 %	1.2 %	192.0 %	3,667.2 %	2.6 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.013 ppb	0.031 ppb	93.983 %	93.741 %	0.098 ppb	0.010 ppb	97.265 %
Concentration per Run 1	0.009 ppb	0.030 ppb	94.453 %	95.510 %	0.066 ppb	0.007 ppb	100.101 %
Concentration per Run 2	0.018 ppb	0.015 ppb	95.672 %	94.381 %	0.111 ppb	0.012 ppb	96.470 %
Concentration per Run 3	0.012 ppb	0.047 ppb	91.824 %	91.331 %	0.116 ppb	0.010 ppb	95.223 %
Concentration RSD	37.4 %	51.4 %	2.1 %	2.3 %	28.5 %	22.5 %	2.6 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	38	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	zWG1859880-2d10 6020SL	Rack	1		
Analysis started at:	12/6/2023 9:20:08 AM	Vial	16		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	78.239 %	94.137 %	4.624 ppb	94.573 ppb	883.122 ppb	981.913 ppb	195.678 ppb	1,045.875 ppb	965.440 ppb
Concentration per Run 1	79.361 %	87.758 %	4.637 ppb	93.605 ppb	978.553 ppb	1,089.915 ppb	222.252 ppb	1,169.625 ppb	1,072.663 ppb
Concentration per Run 2	78.513 %	92.977 %	4.548 ppb	94.685 ppb	882.283 ppb	995.593 ppb	194.992 ppb	1,034.727 ppb	854.577 ppb
Concentration per Run 3	76.843 %	101.675 %	4.687 ppb	95.428 ppb	788.531 ppb	860.232 ppb	169.790 ppb	933.274 ppb	969.079 ppb
Concentration RSD	1.6 %	7.5 %	1.5 %	1.0 %	10.8 %	11.8 %	13.4 %	11.3 %	11.3 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	82.276 %	48.226 ppb	20.013 ppb	49.398 ppb	98.799 ppb	46.835 ppb	46.422 ppb	23.623 ppb	46.009 ppb
Concentration per Run 1	82.330 %	51.409 ppb	21.109 ppb	51.218 ppb	102.805 ppb	48.584 ppb	47.897 ppb	24.554 ppb	48.768 ppb
Concentration per Run 2	82.005 %	46.915 ppb	19.543 ppb	49.369 ppb	99.213 ppb	46.203 ppb	46.223 ppb	23.995 ppb	44.988 ppb
Concentration per Run 3	82.493 %	46.354 ppb	19.387 ppb	47.609 ppb	94.380 ppb	45.719 ppb	45.146 ppb	22.321 ppb	44.271 ppb
Concentration RSD	0.3 %	5.7 %	4.8 %	3.7 %	4.3 %	3.3 %	3.0 %	4.9 %	5.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	96.931 %	11.443 ppb	10.659 ppb	98.682 ppb	99.417 ppb	93.833 %	5.020 ppb	5.360 ppb	87.980 %
Concentration per Run 1	96.408 %	12.378 ppb	11.218 ppb	107.515 ppb	101.734 ppb	93.266 %	5.032 ppb	5.542 ppb	90.193 %
Concentration per Run 2	98.959 %	10.994 ppb	10.620 ppb	96.879 ppb	97.270 ppb	94.979 %	5.046 ppb	5.108 ppb	89.760 %
Concentration per Run 3	95.426 %	10.955 ppb	10.139 ppb	91.651 ppb	99.248 ppb	93.252 %	4.982 ppb	5.431 ppb	83.989 %
Concentration RSD	1.9 %	7.1 %	5.1 %	8.2 %	2.2 %	1.1 %	0.7 %	4.2 %	3.9 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	33.743 ppb	199.852 ppb	93.772 %	89.595 %	11.130 ppb	52.894 ppb	94.354 %
Concentration per Run 1	35.686 ppb	211.507 ppb	93.251 %	92.314 %	10.710 ppb	52.019 ppb	97.722 %
Concentration per Run 2	32.833 ppb	194.129 ppb	95.792 %	90.421 %	11.225 ppb	52.380 ppb	95.010 %
Concentration per Run 3	32.711 ppb	193.920 ppb	92.273 %	86.050 %	11.456 ppb	54.284 ppb	90.329 %
Concentration RSD	5.0 %	5.1 %	1.9 %	3.6 %	3.4 %	2.3 %	4.0 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	39	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859880-3d10 6020SL	Rack	1		
Analysis started at:	12/6/2023 9:24:45 AM	Vial	18		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	78.180 %	97.036 %	4.758 ppb	97.993 ppb	5,724.296 ppb	2,048.333 ppb	195.309 ppb	1,174.262 ppb	2,806.330 ppb
Concentration per Run 1	80.811 %	101.482 %	4.693 ppb	97.216 ppb	6,230.947 ppb	2,105.836 ppb	206.352 ppb	1,236.144 ppb	2,759.323 ppb
Concentration per Run 2	77.326 %	98.776 %	4.783 ppb	98.052 ppb	4,950.247 ppb	2,023.595 ppb	194.046 ppb	1,167.897 ppb	2,735.469 ppb
Concentration per Run 3	76.402 %	90.850 %	4.800 ppb	98.712 ppb	5,991.693 ppb	2,015.567 ppb	185.528 ppb	1,118.746 ppb	2,924.198 ppb
Concentration RSD	3.0 %	5.7 %	1.2 %	0.8 %	11.9 %	2.4 %	5.4 %	5.0 %	3.7 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	81.627 %	50.088 ppb	20.740 ppb	51.391 ppb	100.569 ppb	48.538 ppb	48.865 ppb	25.177 ppb	48.960 ppb
Concentration per Run 1	82.623 %	52.250 ppb	21.265 ppb	54.263 ppb	102.775 ppb	50.415 ppb	49.640 ppb	26.148 ppb	51.343 ppb
Concentration per Run 2	81.169 %	48.763 ppb	19.862 ppb	49.483 ppb	102.520 ppb	47.218 ppb	47.458 ppb	24.118 ppb	47.493 ppb
Concentration per Run 3	81.090 %	49.250 ppb	21.094 ppb	50.426 ppb	96.413 ppb	47.980 ppb	49.499 ppb	25.266 ppb	48.043 ppb
Concentration RSD	1.1 %	3.8 %	3.7 %	4.9 %	3.6 %	3.4 %	2.5 %	4.0 %	4.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	94.247 %	11.772 ppb	11.057 ppb	110.236 ppb	102.710 ppb	94.431 %	4.998 ppb	5.238 ppb	91.421 %
Concentration per Run 1	93.272 %	12.511 ppb	12.457 ppb	122.894 ppb	107.563 ppb	90.231 %	5.215 ppb	5.517 ppb	92.389 %
Concentration per Run 2	95.696 %	11.471 ppb	10.117 ppb	106.233 ppb	99.413 ppb	96.666 %	4.960 ppb	5.005 ppb	94.054 %
Concentration per Run 3	93.773 %	11.336 ppb	10.597 ppb	101.581 ppb	101.154 ppb	96.397 %	4.818 ppb	5.191 ppb	87.820 %
Concentration RSD	1.4 %	5.5 %	11.2 %	10.2 %	4.2 %	3.9 %	4.0 %	4.9 %	3.5 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	37.741 ppb	211.749 ppb	94.102 %	91.673 %	11.380 ppb	53.321 ppb	94.681 %
Concentration per Run 1	39.929 ppb	228.324 ppb	92.783 %	91.327 %	11.010 ppb	52.479 ppb	99.134 %
Concentration per Run 2	36.402 ppb	203.372 ppb	94.713 %	94.019 %	11.822 ppb	54.462 ppb	91.096 %
Concentration per Run 3	36.892 ppb	203.552 ppb	94.811 %	89.675 %	11.307 ppb	53.022 ppb	93.812 %
Concentration RSD	5.1 %	6.8 %	1.2 %	2.4 %	3.6 %	1.9 %	4.3 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 40
Analysis label: WG1859880-4d10 6020SL
Analysis started at: 12/6/2023 9:29:23 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 19
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	77.233 %	96.585 %	4.805 ppb	97.406 ppb	5,691.449 ppb	2,051.146 ppb	194.369 ppb	1,126.993 ppb	2,800.822 ppb
Concentration per Run 1	78.894 %	94.330 %	4.817 ppb	96.843 ppb	6,454.660 ppb	2,205.373 ppb	212.447 ppb	1,237.599 ppb	2,914.176 ppb
Concentration per Run 2	77.095 %	97.809 %	4.785 ppb	97.089 ppb	4,896.232 ppb	1,976.664 ppb	186.115 ppb	1,075.958 ppb	2,703.986 ppb
Concentration per Run 3	75.709 %	97.616 %	4.813 ppb	98.285 ppb	5,723.455 ppb	1,971.400 ppb	184.544 ppb	1,067.422 ppb	2,784.305 ppb
Concentration RSD	2.1 %	2.0 %	0.4 %	0.8 %	13.7 %	6.5 %	8.1 %	8.5 %	3.8 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	79.637 %	49.092 ppb	20.560 ppb	49.318 ppb	101.972 ppb	47.852 ppb	46.135 ppb	24.274 ppb	48.313 ppb
Concentration per Run 1	80.486 %	52.026 ppb	21.267 ppb	50.025 ppb	105.809 ppb	49.266 ppb	46.726 ppb	24.313 ppb	50.887 ppb
Concentration per Run 2	78.849 %	47.033 ppb	19.522 ppb	47.516 ppb	96.930 ppb	45.686 ppb	44.236 ppb	23.032 ppb	46.113 ppb
Concentration per Run 3	79.575 %	48.217 ppb	20.890 ppb	50.414 ppb	103.178 ppb	48.604 ppb	47.442 ppb	25.478 ppb	47.938 ppb
Concentration RSD	1.0 %	5.3 %	4.5 %	3.2 %	4.5 %	4.0 %	3.6 %	5.0 %	5.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	94.430 %	11.694 ppb	11.296 ppb	107.205 ppb	101.069 ppb	93.308 %	4.965 ppb	5.313 ppb	87.777 %
Concentration per Run 1	94.587 %	12.489 ppb	12.539 ppb	115.152 ppb	102.041 ppb	94.682 %	4.848 ppb	5.113 ppb	95.411 %
Concentration per Run 2	98.033 %	11.047 ppb	12.400 ppb	103.699 ppb	100.042 ppb	94.094 %	5.034 ppb	5.504 ppb	83.407 %
Concentration per Run 3	90.669 %	11.547 ppb	8.950 ppb	102.764 ppb	101.125 ppb	91.148 %	5.014 ppb	5.321 ppb	84.512 %
Concentration RSD	3.9 %	6.3 %	18.0 %	6.4 %	1.0 %	2.0 %	2.1 %	3.7 %	7.6 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	39.611 ppb	211.045 ppb	93.171 %	90.778 %	11.221 ppb	52.951 ppb	93.210 %
Concentration per Run 1	39.131 ppb	215.290 ppb	93.924 %	95.892 %	10.802 ppb	51.665 ppb	97.377 %
Concentration per Run 2	39.396 ppb	214.900 ppb	94.382 %	91.593 %	11.249 ppb	53.328 ppb	91.608 %
Concentration per Run 3	40.307 ppb	202.945 ppb	91.209 %	84.850 %	11.614 ppb	53.859 ppb	90.645 %
Concentration RSD	1.6 %	3.3 %	1.8 %	6.1 %	3.6 %	2.2 %	3.9 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	41	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859880-5d10 6020SL	Rack	1		
Analysis started at:	12/6/2023 9:34:02 AM	Vial	20		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	75.927 %	96.778 %	48.679 ppb	50.959 ppb	9,919.682 ppb	5,926.014 ppb	49.275 ppb	5,114.862 ppb	6,987.363 ppb
Concentration per Run 1	77.483 %	93.750 %	48.011 ppb	50.578 ppb	10,812.745 ppb	6,488.874 ppb	56.353 ppb	5,779.614 ppb	7,707.168 ppb
Concentration per Run 2	75.214 %	98.582 %	49.102 ppb	50.980 ppb	9,493.029 ppb	5,707.496 ppb	44.783 ppb	4,851.842 ppb	6,743.403 ppb
Concentration per Run 3	75.083 %	98.003 %	48.923 ppb	51.318 ppb	9,453.273 ppb	5,581.672 ppb	46.688 ppb	4,713.130 ppb	6,511.518 ppb
Concentration RSD	1.8 %	2.7 %	1.2 %	0.7 %	7.8 %	8.3 %	12.6 %	11.3 %	9.1 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	84.459 %	53.617 ppb	52.363 ppb	52.564 ppb	5,099.163 ppb	49.693 ppb	50.579 ppb	51.119 ppb	50.882 ppb
Concentration per Run 1	84.292 %	58.121 ppb	55.340 ppb	56.246 ppb	5,301.752 ppb	51.761 ppb	51.666 ppb	52.271 ppb	53.100 ppb
Concentration per Run 2	84.179 %	50.173 ppb	50.886 ppb	50.638 ppb	4,971.812 ppb	47.656 ppb	48.653 ppb	49.096 ppb	49.155 ppb
Concentration per Run 3	84.906 %	52.556 ppb	50.863 ppb	50.808 ppb	5,023.925 ppb	49.663 ppb	51.417 ppb	51.988 ppb	50.393 ppb
Concentration RSD	0.5 %	7.6 %	4.9 %	6.1 %	3.5 %	4.1 %	3.3 %	3.4 %	4.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	93.601 %	48.265 ppb	48.304 ppb	60.221 ppb	54.510 ppb	92.518 %	10.748 ppb	50.403 ppb	90.869 %
Concentration per Run 1	94.694 %	51.862 ppb	51.208 ppb	65.628 ppb	55.234 ppb	90.126 %	11.140 ppb	53.191 ppb	88.620 %
Concentration per Run 2	96.329 %	45.998 ppb	46.353 ppb	57.445 ppb	53.585 ppb	95.180 %	10.341 ppb	49.663 ppb	93.565 %
Concentration per Run 3	89.779 %	46.933 ppb	47.353 ppb	57.590 ppb	54.712 ppb	92.249 %	10.761 ppb	48.353 ppb	90.423 %
Concentration RSD	3.6 %	6.5 %	5.3 %	7.8 %	1.5 %	2.7 %	3.7 %	5.0 %	2.8 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	51.767 ppb	58.065 ppb	92.477 %	92.392 %	45.052 ppb	49.114 ppb	96.615 %
Concentration per Run 1	56.319 ppb	61.593 ppb	91.227 %	91.759 %	43.446 ppb	48.094 ppb	100.757 %
Concentration per Run 2	49.319 ppb	57.477 ppb	93.101 %	96.059 %	45.625 ppb	49.268 ppb	95.071 %
Concentration per Run 3	49.665 ppb	55.125 ppb	93.102 %	89.359 %	46.085 ppb	49.979 ppb	94.017 %
Concentration RSD	7.6 %	5.6 %	1.2 %	3.7 %	3.1 %	1.9 %	3.8 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	42	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859880-6d5 6020SL	Rack	1		
Analysis started at:	12/6/2023 9:38:40 AM	Vial	21		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	76.230 %	98.776 %	0.014 ppb	2.919 ppb	9,574.400 ppb	2,012.843 ppb	1.124 ppb	250.399 ppb	3,533.019 ppb
Concentration per Run 1	77.883 %	103.995 %	0.017 ppb	2.924 ppb	9,655.365 ppb	2,013.354 ppb	1.114 ppb	269.714 ppb	3,694.176 ppb
Concentration per Run 2	75.378 %	101.289 %	0.008 ppb	2.962 ppb	9,300.754 ppb	1,992.150 ppb	0.920 ppb	231.559 ppb	3,398.352 ppb
Concentration per Run 3	75.428 %	91.044 %	0.017 ppb	2.869 ppb	9,767.082 ppb	2,033.025 ppb	1.337 ppb	249.924 ppb	3,506.529 ppb
Concentration RSD	1.9 %	6.9 %	36.9 %	1.6 %	2.5 %	1.0 %	18.6 %	7.6 %	4.2 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	81.415 %	0.013 ppb	0.393 ppb	0.270 ppb	8.948 ppb	0.024 ppb	0.370 ppb	0.183 ppb	0.568 ppb
Concentration per Run 1	82.503 %	0.019 ppb	0.340 ppb	0.188 ppb	9.353 ppb	0.022 ppb	0.396 ppb	0.186 ppb	0.569 ppb
Concentration per Run 2	79.747 %	0.004 ppb	0.469 ppb	0.219 ppb	10.474 ppb	0.022 ppb	0.371 ppb	0.210 ppb	0.560 ppb
Concentration per Run 3	81.994 %	0.015 ppb	0.371 ppb	0.403 ppb	7.018 ppb	0.028 ppb	0.343 ppb	0.152 ppb	0.575 ppb
Concentration RSD	1.8 %	60.9 %	17.2 %	43.2 %	19.7 %	13.9 %	7.2 %	16.0 %	1.3 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	94.044 %	0.147 ppb	0.504 ppb	17.445 ppb	1.313 ppb	93.469 %	0.024 ppb	0.009 ppb	89.073 %
Concentration per Run 1	95.011 %	0.263 ppb	0.407 ppb	18.806 ppb	1.205 ppb	90.103 %	0.025 ppb	0.004 ppb	91.603 %
Concentration per Run 2	94.166 %	0.044 ppb	0.403 ppb	17.532 ppb	1.365 ppb	95.443 %	0.026 ppb	0.016 ppb	92.714 %
Concentration per Run 3	92.956 %	0.134 ppb	0.702 ppb	15.998 ppb	1.367 ppb	94.860 %	0.020 ppb	0.006 ppb	82.902 %
Concentration RSD	1.1 %	74.7 %	34.1 %	8.1 %	7.1 %	3.1 %	12.0 %	76.5 %	6.0 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.038 ppb	10.298 ppb	93.497 %	91.670 %	0.342 ppb	0.026 ppb	95.548 %
Concentration per Run 1	0.995 ppb	11.243 ppb	90.724 %	90.902 %	0.256 ppb	0.029 ppb	97.591 %
Concentration per Run 2	1.023 ppb	10.154 ppb	95.741 %	93.293 %	0.420 ppb	0.028 ppb	95.197 %
Concentration per Run 3	1.096 ppb	9.496 ppb	94.026 %	90.815 %	0.348 ppb	0.022 ppb	93.856 %
Concentration RSD	5.0 %	8.6 %	2.7 %	1.5 %	24.0 %	15.7 %	2.0 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	43	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-04 6020SL	Rack	1		
Analysis started at:	12/6/2023 9:45:15 AM	Vial	17		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	77.253 %	96.778 %	0.014 ppb	9.281 ppb	50,862.805 ppb	10,831.468 ppb	2.389 ppb	1,278.616 ppb	18,426.472 ppb
Concentration per Run 1	78.990 %	100.515 %	0.013 ppb	9.241 ppb	48,893.437 ppb	10,463.287 ppb	1.935 ppb	1,251.411 ppb	19,096.656 ppb
Concentration per Run 2	76.911 %	98.582 %	0.018 ppb	9.232 ppb	50,160.924 ppb	10,778.944 ppb	2.651 ppb	1,248.677 ppb	17,471.802 ppb
Concentration per Run 3	75.859 %	91.237 %	0.010 ppb	9.371 ppb	53,534.053 ppb	11,252.171 ppb	2.582 ppb	1,335.761 ppb	18,710.959 ppb
Concentration RSD	2.1 %	5.1 %	28.5 %	0.8 %	4.7 %	3.7 %	16.5 %	3.9 %	4.6 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	85.072 %	0.107 ppb	1.808 ppb	0.877 ppb	11.911 ppb	0.089 ppb	1.887 ppb	0.743 ppb	2.377 ppb
Concentration per Run 1	85.202 %	0.104 ppb	1.908 ppb	0.782 ppb	11.208 ppb	0.094 ppb	1.898 ppb	0.821 ppb	2.411 ppb
Concentration per Run 2	84.953 %	0.097 ppb	1.711 ppb	0.934 ppb	9.868 ppb	0.095 ppb	1.932 ppb	0.624 ppb	2.409 ppb
Concentration per Run 3	85.062 %	0.119 ppb	1.806 ppb	0.915 ppb	14.658 ppb	0.077 ppb	1.832 ppb	0.783 ppb	2.313 ppb
Concentration RSD	0.1 %	10.3 %	5.4 %	9.5 %	20.7 %	11.2 %	2.7 %	14.1 %	2.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	95.050 %	0.213 ppb	0.485 ppb	92.360 ppb	0.885 ppb	93.319 %	0.015 ppb	0.013 ppb	91.135 %
Concentration per Run 1	90.179 %	0.292 ppb	0.426 ppb	95.014 ppb	0.823 ppb	89.829 %	0.010 ppb	0.015 ppb	89.544 %
Concentration per Run 2	98.337 %	0.120 ppb	0.513 ppb	90.705 ppb	0.909 ppb	94.203 %	0.011 ppb	0.010 ppb	93.118 %
Concentration per Run 3	96.633 %	0.226 ppb	0.517 ppb	91.361 ppb	0.921 ppb	95.925 %	0.022 ppb	0.014 ppb	90.742 %
Concentration RSD	4.5 %	40.9 %	10.6 %	2.5 %	6.0 %	3.4 %	44.5 %	20.6 %	2.0 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.572 ppb	58.102 ppb	94.929 %	94.751 %	0.085 ppb	0.017 ppb	97.828 %
Concentration per Run 1	0.565 ppb	59.185 ppb	91.550 %	94.280 %	0.054 ppb	0.017 ppb	99.642 %
Concentration per Run 2	0.554 ppb	56.184 ppb	97.399 %	94.593 %	0.100 ppb	0.018 ppb	97.613 %
Concentration per Run 3	0.598 ppb	58.937 ppb	95.839 %	95.380 %	0.102 ppb	0.016 ppb	96.228 %
Concentration RSD	4.0 %	2.9 %	3.2 %	0.6 %	31.4 %	5.9 %	1.8 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	44	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-01 6020SL	Rack	1		
Analysis started at:	12/6/2023 9:49:53 AM	Vial	27		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	74.105 %	94.845 %	0.008 ppb	38.967 ppb	48,521.941 ppb	613.378 ppb	83.379 ppb	21,794.248 ppb	67,752.764 ppb
Concentration per Run 1	75.914 %	96.070 %	0.015 ppb	38.619 ppb	47,436.233 ppb	597.321 ppb	82.696 ppb	21,292.189 ppb	67,848.474 ppb
Concentration per Run 2	74.214 %	89.884 %	0.005 ppb	38.593 ppb	50,586.891 ppb	623.793 ppb	87.115 ppb	23,043.586 ppb	69,389.177 ppb
Concentration per Run 3	72.186 %	98.582 %	0.003 ppb	39.690 ppb	47,542.699 ppb	619.020 ppb	80.328 ppb	21,046.969 ppb	66,020.641 ppb
Concentration RSD	2.5 %	4.7 %	86.8 %	1.6 %	3.7 %	2.3 %	4.1 %	5.0 %	2.5 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	81.411 %	4.669 ppb	0.884 ppb	294.373 ppb	349.555 ppb	0.457 ppb	3.371 ppb	1.519 ppb	0.377 ppb
Concentration per Run 1	82.753 %	4.522 ppb	0.963 ppb	284.132 ppb	362.209 ppb	0.449 ppb	3.802 ppb	1.400 ppb	0.350 ppb
Concentration per Run 2	80.953 %	4.423 ppb	0.878 ppb	297.549 ppb	341.368 ppb	0.475 ppb	3.328 ppb	1.615 ppb	0.372 ppb
Concentration per Run 3	80.526 %	5.062 ppb	0.812 ppb	301.440 ppb	345.088 ppb	0.447 ppb	2.982 ppb	1.543 ppb	0.407 ppb
Concentration RSD	1.5 %	7.4 %	8.5 %	3.1 %	3.2 %	3.4 %	12.2 %	7.2 %	7.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	95.317 %	3.679 ppb	0.812 ppb	678.497 ppb	51.421 ppb	91.652 %	0.012 ppb	0.004 ppb	87.841 %
Concentration per Run 1	93.467 %	4.010 ppb	0.285 ppb	677.764 ppb	50.552 ppb	90.499 %	0.007 ppb	0.006 ppb	84.896 %
Concentration per Run 2	98.474 %	3.359 ppb	1.003 ppb	669.010 ppb	51.731 ppb	91.908 %	0.013 ppb	0.006 ppb	89.426 %
Concentration per Run 3	94.012 %	3.667 ppb	1.149 ppb	688.717 ppb	51.980 ppb	92.550 %	0.015 ppb	-0.001 ppb	89.201 %
Concentration RSD	2.9 %	8.9 %	57.0 %	1.5 %	1.5 %	1.1 %	38.4 %	101.7 %	2.9 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.714 ppb	21.501 ppb	92.494 %	92.847 %	0.059 ppb	0.017 ppb	94.878 %
Concentration per Run 1	0.715 ppb	22.414 ppb	91.959 %	92.998 %	0.036 ppb	0.017 ppb	97.491 %
Concentration per Run 2	0.763 ppb	20.454 ppb	92.404 %	92.060 %	0.067 ppb	0.017 ppb	94.668 %
Concentration per Run 3	0.666 ppb	21.634 ppb	93.120 %	93.482 %	0.074 ppb	0.017 ppb	92.473 %
Concentration RSD	6.8 %	4.6 %	0.6 %	0.8 %	33.9 %	2.2 %	2.7 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	45	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-02 6020SL	Rack	1		
Analysis started at:	12/6/2023 9:54:30 AM	Vial	28		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	76.140 %	95.812 %	0.010 ppb	110.941 ppb	4,819.057 ppb	4,840.242 ppb	2.512 ppb	15,368.517 ppb	57,993.055 ppb
Concentration per Run 1	79.036 %	87.951 %	0.012 ppb	109.630 ppb	5,250.666 ppb	5,199.979 ppb	3.450 ppb	16,197.798 ppb	61,939.621 ppb
Concentration per Run 2	75.059 %	102.062 %	0.009 ppb	110.528 ppb	4,540.251 ppb	4,625.727 ppb	1.648 ppb	14,901.171 ppb	56,862.417 ppb
Concentration per Run 3	74.324 %	97.423 %	0.007 ppb	112.666 ppb	4,666.254 ppb	4,695.021 ppb	2.438 ppb	15,006.582 ppb	55,177.127 ppb
Concentration RSD	3.3 %	7.5 %	23.2 %	1.4 %	7.9 %	6.5 %	36.0 %	4.7 %	6.1 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	79.658 %	0.377 ppb	2.428 ppb	0.200 ppb	3.689 ppb	0.334 ppb	0.241 ppb	1.433 ppb	0.621 ppb
Concentration per Run 1	81.327 %	0.380 ppb	2.504 ppb	0.101 ppb	4.092 ppb	0.375 ppb	0.243 ppb	1.575 ppb	0.680 ppb
Concentration per Run 2	78.745 %	0.361 ppb	2.479 ppb	0.203 ppb	3.752 ppb	0.322 ppb	0.265 ppb	1.274 ppb	0.549 ppb
Concentration per Run 3	78.902 %	0.391 ppb	2.301 ppb	0.295 ppb	3.223 ppb	0.304 ppb	0.216 ppb	1.450 ppb	0.635 ppb
Concentration RSD	1.8 %	4.1 %	4.6 %	48.4 %	11.9 %	11.0 %	10.3 %	10.6 %	10.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	93.279 %	0.425 ppb	0.557 ppb	249.508 ppb	12.567 ppb	90.273 %	0.013 ppb	0.005 ppb	87.530 %
Concentration per Run 1	87.156 %	0.588 ppb	0.750 ppb	261.290 ppb	13.101 ppb	86.234 %	0.010 ppb	0.006 ppb	83.366 %
Concentration per Run 2	94.902 %	0.415 ppb	0.576 ppb	243.914 ppb	11.769 ppb	93.053 %	0.010 ppb	0.008 ppb	91.132 %
Concentration per Run 3	97.781 %	0.271 ppb	0.344 ppb	243.319 ppb	12.832 ppb	91.532 %	0.018 ppb	-0.001 ppb	88.092 %
Concentration RSD	5.9 %	37.3 %	36.6 %	4.1 %	5.6 %	4.0 %	34.2 %	100.6 %	4.5 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.535 ppb	32.114 ppb	90.893 %	89.074 %	0.068 ppb	0.024 ppb	90.093 %
Concentration per Run 1	0.546 ppb	34.327 ppb	87.311 %	85.746 %	0.048 ppb	0.027 ppb	90.375 %
Concentration per Run 2	0.525 ppb	31.058 ppb	91.855 %	91.301 %	0.074 ppb	0.025 ppb	89.895 %
Concentration per Run 3	0.535 ppb	30.958 ppb	93.513 %	90.173 %	0.082 ppb	0.022 ppb	90.008 %
Concentration RSD	2.0 %	6.0 %	3.5 %	3.3 %	25.6 %	10.1 %	0.3 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	46	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-03 6020SL	Rack	1		
Analysis started at:	12/6/2023 9:59:07 AM	Vial	29		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	74.401 %	97.745 %	0.011 ppb	49.128 ppb	14,744.446 ppb	3,713.454 ppb	1.791 ppb	12,464.724 ppb	53,200.656 ppb
Concentration per Run 1	76.147 %	92.010 %	0.010 ppb	48.504 ppb	15,664.523 ppb	3,904.078 ppb	2.154 ppb	12,969.172 ppb	56,577.025 ppb
Concentration per Run 2	74.020 %	102.062 %	0.010 ppb	49.508 ppb	14,166.652 ppb	3,542.763 ppb	1.928 ppb	12,173.120 ppb	51,660.006 ppb
Concentration per Run 3	73.036 %	99.162 %	0.013 ppb	49.371 ppb	14,402.163 ppb	3,693.521 ppb	1.290 ppb	12,251.879 ppb	51,364.936 ppb
Concentration RSD	2.1 %	5.3 %	17.7 %	1.1 %	5.5 %	4.9 %	25.0 %	3.5 %	5.5 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	79.048 %	0.635 ppb	0.985 ppb	1.229 ppb	8.890 ppb	0.417 ppb	0.549 ppb	0.879 ppb	0.622 ppb
Concentration per Run 1	80.373 %	0.665 ppb	1.088 ppb	1.554 ppb	8.000 ppb	0.436 ppb	0.647 ppb	0.870 ppb	0.708 ppb
Concentration per Run 2	78.608 %	0.619 ppb	0.924 ppb	0.946 ppb	9.653 ppb	0.440 ppb	0.414 ppb	0.843 ppb	0.628 ppb
Concentration per Run 3	78.162 %	0.620 ppb	0.943 ppb	1.187 ppb	9.016 ppb	0.374 ppb	0.585 ppb	0.925 ppb	0.530 ppb
Concentration RSD	1.5 %	4.1 %	9.1 %	24.9 %	9.4 %	8.9 %	22.0 %	4.7 %	14.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	91.683 %	0.417 ppb	0.807 ppb	222.867 ppb	1.648 ppb	90.615 %	0.006 ppb	0.004 ppb	86.823 %
Concentration per Run 1	86.200 %	0.663 ppb	1.016 ppb	229.424 ppb	1.637 ppb	86.958 %	0.004 ppb	0.002 ppb	84.696 %
Concentration per Run 2	92.030 %	0.289 ppb	0.939 ppb	221.045 ppb	1.615 ppb	91.350 %	0.004 ppb	0.002 ppb	86.250 %
Concentration per Run 3	96.817 %	0.299 ppb	0.466 ppb	218.132 ppb	1.691 ppb	93.537 %	0.010 ppb	0.008 ppb	89.524 %
Concentration RSD	5.8 %	51.1 %	36.9 %	2.6 %	2.4 %	3.7 %	54.9 %	98.6 %	2.8 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.438 ppb	49.830 ppb	89.916 %	89.312 %	0.081 ppb	0.013 ppb	90.203 %
Concentration per Run 1	0.418 ppb	51.066 ppb	86.709 %	88.368 %	0.062 ppb	0.013 ppb	89.391 %
Concentration per Run 2	0.452 ppb	48.871 ppb	91.317 %	87.522 %	0.086 ppb	0.011 ppb	90.461 %
Concentration per Run 3	0.444 ppb	49.552 ppb	91.722 %	92.048 %	0.094 ppb	0.016 ppb	90.758 %
Concentration RSD	4.0 %	2.3 %	3.1 %	2.7 %	20.2 %	17.2 %	0.8 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 47
Analysis label: CCV
Analysis started at: 12/6/2023 10:03:45 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	70.688 %	95.361 %	59.784 ppb	58.576 ppb	5,512.359 ppb	6,070.986 ppb	60.642 ppb	6,067.901 ppb	6,176.087 ppb
Concentration per Run 1	72.835 %	90.657 %	59.742 ppb	57.970 ppb	5,476.711 ppb	6,189.853 ppb	63.381 ppb	6,427.767 ppb	6,381.692 ppb
Concentration per Run 2	71.240 %	95.490 %	59.348 ppb	58.961 ppb	6,051.605 ppb	6,085.154 ppb	60.791 ppb	6,042.881 ppb	6,108.448 ppb
Concentration per Run 3	67.990 %	99.936 %	60.263 ppb	58.798 ppb	5,008.759 ppb	5,937.952 ppb	57.753 ppb	5,733.056 ppb	6,038.122 ppb
Recovery Percentage 1			99.641 %	97.627 %	91.873 %	101.183 %	101.070 %	101.132 %	102.935 %
Concentration RSD	3.5 %	4.9 %	0.8 %	0.9 %	9.5 %	2.1 %	4.6 %	5.7 %	2.9 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	82.564 %	61.965 ppb	62.070 ppb	63.597 ppb	6,180.817 ppb	63.046 ppb	62.908 ppb	63.649 ppb	61.535 ppb
Concentration per Run 1	83.552 %	63.180 ppb	64.542 ppb	66.373 ppb	6,485.327 ppb	66.775 ppb	66.560 ppb	66.625 ppb	64.117 ppb
Concentration per Run 2	82.864 %	61.806 ppb	60.422 ppb	62.342 ppb	6,093.200 ppb	60.969 ppb	62.375 ppb	62.328 ppb	60.506 ppb
Concentration per Run 3	81.275 %	60.907 ppb	61.247 ppb	62.077 ppb	5,963.922 ppb	61.396 ppb	59.789 ppb	61.993 ppb	59.982 ppb
Recovery Percentage 1		103.274 %	103.450 %	105.995 %	103.014 %	105.077 %	104.847 %	106.081 %	102.558 %
Concentration RSD	1.4 %	1.8 %	3.5 %	3.8 %	4.4 %	5.1 %	5.4 %	4.1 %	3.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	89.866 %	60.096 ppb	57.845 ppb	60.414 ppb	61.761 ppb	90.832 %	62.146 ppb	61.998 ppb	85.536 %
Concentration per Run 1	84.767 %	62.861 ppb	59.643 ppb	61.569 ppb	61.120 ppb	87.337 %	63.232 ppb	63.444 ppb	83.027 %
Concentration per Run 2	90.812 %	60.629 ppb	55.829 ppb	60.025 ppb	60.567 ppb	93.246 %	62.142 ppb	61.447 ppb	85.199 %
Concentration per Run 3	94.018 %	56.797 ppb	58.064 ppb	59.648 ppb	63.596 ppb	91.914 %	61.064 ppb	61.104 ppb	88.380 %
Recovery Percentage 1		100.160 %	96.409 %	100.690 %	102.935 %		103.577 %	103.331 %	
Concentration RSD	5.2 %	5.1 %	3.3 %	1.7 %	2.6 %	3.4 %	1.7 %	2.0 %	3.1 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.425 ppb	63.592 ppb	89.411 %	86.181 %	53.859 ppb	57.722 ppb	94.393 %
Concentration per Run 1	63.540 ppb	64.670 ppb	86.413 %	83.055 %	51.247 ppb	54.779 ppb	96.975 %
Concentration per Run 2	61.179 ppb	63.342 ppb	90.254 %	87.053 %	55.629 ppb	59.386 ppb	91.539 %
Concentration per Run 3	59.557 ppb	62.765 ppb	91.566 %	88.435 %	54.701 ppb	59.001 ppb	94.664 %
Recovery Percentage 1	102.376 %	105.987 %			89.765 %	96.204 %	
Concentration RSD	3.3 %	1.5 %	3.0 %	3.2 %	4.3 %	4.4 %	2.9 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 48
Analysis label: CCB
Analysis started at: 12/6/2023 10:08:27 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 10
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	70.827 %	95.683 %	0.016 ppb	1.771 ppb	7.053 ppb	0.143 ppb	0.480 ppb	7.623 ppb	3.511 ppb
Concentration per Run 1	72.661 %	92.590 %	0.015 ppb	1.725 ppb	5.258 ppb	-0.478 ppb	0.113 ppb	12.024 ppb	-2.716 ppb
Concentration per Run 2	70.945 %	92.397 %	0.015 ppb	1.793 ppb	15.342 ppb	0.095 ppb	1.162 ppb	4.347 ppb	1.768 ppb
Concentration per Run 3	68.875 %	102.062 %	0.017 ppb	1.794 ppb	0.560 ppb	0.813 ppb	0.165 ppb	6.499 ppb	11.481 ppb
Recovery Percentage 1			3.129 %	17.706 %	7.053 %	0.205 %	4.801 %	7.623 %	3.511 %
Concentration RSD	2.7 %	5.8 %	9.2 %	2.2 %	107.1 %	451.8 %	123.2 %	51.9 %	206.7 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	75.291 %	0.018 ppb	0.054 ppb	-0.033 ppb	10.017 ppb	0.008 ppb	0.067 ppb	0.038 ppb	0.327 ppb
Concentration per Run 1	77.383 %	0.009 ppb	0.048 ppb	-0.019 ppb	9.145 ppb	0.008 ppb	0.075 ppb	0.043 ppb	0.321 ppb
Concentration per Run 2	75.730 %	0.015 ppb	0.090 ppb	-0.052 ppb	10.348 ppb	0.009 ppb	0.068 ppb	0.043 ppb	0.391 ppb
Concentration per Run 3	72.760 %	0.028 ppb	0.024 ppb	-0.027 ppb	10.557 ppb	0.006 ppb	0.058 ppb	0.026 ppb	0.267 ppb
Recovery Percentage 1		0.351 %	5.389 %	-3.252 %	20.034 %	1.562 %	3.358 %	3.760 %	6.530 %
Concentration RSD	3.1 %	56.8 %	62.1 %	53.1 %	7.6 %	23.4 %	12.6 %	26.1 %	19.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	89.797 %	0.302 ppb	0.475 ppb	0.017 ppb	0.897 ppb	91.553 %	0.014 ppb	0.002 ppb	84.753 %
Concentration per Run 1	85.155 %	0.477 ppb	0.406 ppb	0.029 ppb	0.730 ppb	88.728 %	0.010 ppb	0.002 ppb	80.267 %
Concentration per Run 2	91.248 %	0.149 ppb	0.607 ppb	0.019 ppb	0.869 ppb	92.943 %	0.017 ppb	-0.001 ppb	86.865 %
Concentration per Run 3	92.990 %	0.282 ppb	0.413 ppb	0.002 ppb	1.091 ppb	92.987 %	0.014 ppb	0.004 ppb	87.126 %
Recovery Percentage 1		60.500 %	9.510 %	0.166 %	44.836 %		3.443 %	0.806 %	
Concentration RSD	4.6 %	54.6 %	24.0 %	84.5 %	20.3 %	2.7 %	27.0 %	137.7 %	4.6 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.156 ppb	0.002 ppb	87.573 %	85.084 %	0.439 ppb	0.021 ppb	91.399 %
Concentration per Run 1	0.147 ppb	0.003 ppb	84.629 %	81.393 %	0.339 ppb	0.025 ppb	91.004 %
Concentration per Run 2	0.145 ppb	0.017 ppb	90.152 %	86.107 %	0.501 ppb	0.022 ppb	92.002 %
Concentration per Run 3	0.176 ppb	-0.014 ppb	87.939 %	87.752 %	0.478 ppb	0.017 ppb	91.191 %
Recovery Percentage 1	3.895 %	0.408 %			43.949 %	2.146 %	
Concentration RSD	11.1 %	770.7 %	3.2 %	3.9 %	19.9 %	17.8 %	0.6 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	49	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	zWG1859880-2d10 6020SL	Rack	1		
Analysis started at:	12/6/2023 10:21:53 AM	Vial	16		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	75.456 %	96.585 %	4.808 ppb	97.984 ppb	881.752 ppb	1,000.735 ppb	194.891 ppb	987.443 ppb	927.363 ppb
Concentration per Run 1	76.967 %	85.438 %	4.723 ppb	97.310 ppb	983.457 ppb	1,099.576 ppb	219.335 ppb	1,034.556 ppb	998.575 ppb
Concentration per Run 2	74.740 %	100.322 %	4.835 ppb	97.947 ppb	818.533 ppb	923.948 ppb	179.829 ppb	924.635 ppb	930.474 ppb
Concentration per Run 3	74.662 %	103.995 %	4.865 ppb	98.696 ppb	843.266 ppb	978.682 ppb	185.510 ppb	1,003.138 ppb	853.040 ppb
Concentration RSD	1.7 %	10.2 %	1.6 %	0.7 %	10.1 %	9.0 %	11.0 %	5.7 %	7.9 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	78.743 %	48.939 ppb	20.127 ppb	50.154 ppb	101.685 ppb	48.792 ppb	48.501 ppb	24.362 ppb	47.102 ppb
Concentration per Run 1	78.470 %	50.511 ppb	21.041 ppb	52.362 ppb	103.615 ppb	53.226 ppb	52.188 ppb	25.465 ppb	48.739 ppb
Concentration per Run 2	78.781 %	50.524 ppb	19.741 ppb	48.388 ppb	95.497 ppb	47.075 ppb	46.877 ppb	24.349 ppb	46.793 ppb
Concentration per Run 3	78.978 %	45.783 ppb	19.599 ppb	49.710 ppb	105.944 ppb	46.074 ppb	46.440 ppb	23.271 ppb	45.774 ppb
Concentration RSD	0.3 %	5.6 %	3.9 %	4.0 %	5.4 %	7.9 %	6.6 %	4.5 %	3.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	91.444 %	11.773 ppb	11.208 ppb	97.551 ppb	101.279 ppb	92.350 %	5.013 ppb	5.177 ppb	85.872 %
Concentration per Run 1	88.041 %	12.289 ppb	11.974 ppb	101.357 ppb	102.904 ppb	89.033 %	5.169 ppb	5.285 ppb	82.642 %
Concentration per Run 2	89.630 %	11.451 ppb	10.854 ppb	94.506 ppb	101.044 ppb	91.177 %	5.034 ppb	5.229 ppb	85.757 %
Concentration per Run 3	96.662 %	11.577 ppb	10.796 ppb	96.791 ppb	99.887 ppb	96.841 %	4.836 ppb	5.016 ppb	89.215 %
Concentration RSD	5.0 %	3.8 %	5.9 %	3.6 %	1.5 %	4.4 %	3.3 %	2.7 %	3.8 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	34.240 ppb	205.392 ppb	90.222 %	87.653 %	11.041 ppb	51.042 ppb	96.025 %
Concentration per Run 1	35.932 ppb	217.207 ppb	86.509 %	85.955 %	10.523 ppb	48.888 ppb	100.367 %
Concentration per Run 2	32.022 ppb	196.357 ppb	89.112 %	84.672 %	11.389 ppb	51.790 ppb	93.126 %
Concentration per Run 3	34.766 ppb	202.611 ppb	95.044 %	92.332 %	11.210 ppb	52.449 ppb	94.581 %
Concentration RSD	5.9 %	5.2 %	4.8 %	4.7 %	4.1 %	3.7 %	4.0 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	50	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859880-7d10 6020SL	Rack	1		
Analysis started at:	12/6/2023 10:26:30 AM	Vial	23		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	74.337 %	95.683 %	4.877 ppb	104.419 ppb	3,469.504 ppb	2,323.357 ppb	189.099 ppb	1,900.371 ppb	6,649.859 ppb
Concentration per Run 1	76.017 %	92.590 %	4.818 ppb	102.956 ppb	3,606.233 ppb	2,394.441 ppb	196.339 ppb	2,023.288 ppb	6,949.855 ppb
Concentration per Run 2	75.139 %	96.263 %	4.895 ppb	104.696 ppb	3,335.156 ppb	2,197.501 ppb	179.554 ppb	1,795.585 ppb	6,386.338 ppb
Concentration per Run 3	71.855 %	98.196 %	4.920 ppb	105.605 ppb	3,467.124 ppb	2,378.131 ppb	191.403 ppb	1,882.240 ppb	6,613.384 ppb
Concentration RSD	3.0 %	3.0 %	1.1 %	1.3 %	3.9 %	4.7 %	4.6 %	6.0 %	4.3 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	77.914 %	48.969 ppb	20.188 ppb	50.241 ppb	104.168 ppb	48.213 ppb	47.646 ppb	24.698 ppb	47.490 ppb
Concentration per Run 1	77.617 %	50.109 ppb	20.652 ppb	52.341 ppb	109.457 ppb	50.040 ppb	49.773 ppb	25.782 ppb	48.816 ppb
Concentration per Run 2	78.929 %	47.441 ppb	19.121 ppb	47.189 ppb	102.702 ppb	47.046 ppb	45.279 ppb	23.864 ppb	46.604 ppb
Concentration per Run 3	77.197 %	49.355 ppb	20.790 ppb	51.192 ppb	100.345 ppb	47.552 ppb	47.884 ppb	24.448 ppb	47.050 ppb
Concentration RSD	1.2 %	2.8 %	4.6 %	5.4 %	4.5 %	3.3 %	4.7 %	4.0 %	2.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	90.818 %	12.524 ppb	11.333 ppb	121.202 ppb	102.455 ppb	90.311 %	5.071 ppb	5.224 ppb	85.196 %
Concentration per Run 1	87.234 %	13.253 ppb	10.654 ppb	126.143 ppb	102.193 ppb	87.096 %	5.146 ppb	5.318 ppb	84.771 %
Concentration per Run 2	90.480 %	12.199 ppb	11.972 ppb	115.828 ppb	102.728 ppb	89.750 %	5.152 ppb	5.261 ppb	81.396 %
Concentration per Run 3	94.740 %	12.120 ppb	11.375 ppb	121.635 ppb	102.445 ppb	94.087 %	4.915 ppb	5.092 ppb	89.423 %
Concentration RSD	4.1 %	5.0 %	5.8 %	4.3 %	0.3 %	3.9 %	2.7 %	2.3 %	4.7 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	40.652 ppb	225.494 ppb	89.825 %	86.691 %	11.453 ppb	53.664 ppb	90.710 %
Concentration per Run 1	40.203 ppb	228.437 ppb	87.562 %	85.026 %	11.335 ppb	53.290 ppb	92.162 %
Concentration per Run 2	41.370 ppb	226.156 ppb	86.746 %	84.504 %	11.477 ppb	53.769 ppb	87.980 %
Concentration per Run 3	40.384 ppb	221.888 ppb	95.168 %	90.542 %	11.547 ppb	53.932 ppb	91.987 %
Concentration RSD	1.5 %	1.5 %	5.2 %	3.9 %	0.9 %	0.6 %	2.6 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	51	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859880-2d5 6020SL	Rack	1		
Analysis started at:	12/6/2023 10:34:39 AM	Vial	41		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	74.290 %	95.425 %	9.808 ppb	202.507 ppb	1,793.524 ppb	2,037.172 ppb	404.762 ppb	2,107.776 ppb	1,882.504 ppb
Concentration per Run 1	75.886 %	97.036 %	9.782 ppb	202.100 ppb	1,879.348 ppb	2,084.641 ppb	421.248 ppb	2,276.052 ppb	1,786.559 ppb
Concentration per Run 2	74.484 %	91.237 %	9.824 ppb	202.738 ppb	1,870.297 ppb	2,126.165 ppb	417.920 ppb	2,111.094 ppb	1,941.382 ppb
Concentration per Run 3	72.500 %	98.003 %	9.819 ppb	202.683 ppb	1,630.927 ppb	1,900.710 ppb	375.117 ppb	1,936.182 ppb	1,919.571 ppb
Concentration RSD	2.3 %	3.8 %	0.2 %	0.2 %	7.9 %	5.9 %	6.4 %	8.1 %	4.5 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	81.779 %	100.341 ppb	40.977 ppb	101.921 ppb	206.015 ppb	98.494 ppb	98.556 ppb	49.599 ppb	97.465 ppb
Concentration per Run 1	82.299 %	100.378 ppb	39.846 ppb	101.486 ppb	209.435 ppb	95.213 ppb	97.171 ppb	47.833 ppb	98.959 ppb
Concentration per Run 2	81.904 %	101.812 ppb	41.960 ppb	103.881 ppb	207.743 ppb	102.944 ppb	99.699 ppb	51.050 ppb	97.953 ppb
Concentration per Run 3	81.132 %	98.832 ppb	41.126 ppb	100.395 ppb	200.865 ppb	97.326 ppb	98.798 ppb	49.915 ppb	95.482 ppb
Concentration RSD	0.7 %	1.5 %	2.6 %	1.7 %	2.2 %	4.1 %	1.3 %	3.3 %	1.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	93.042 %	23.918 ppb	23.663 ppb	205.018 ppb	218.295 ppb	93.314 %	10.171 ppb	10.582 ppb	88.374 %
Concentration per Run 1	96.465 %	24.506 ppb	26.046 ppb	213.374 ppb	216.182 ppb	95.723 %	10.008 ppb	10.473 ppb	91.849 %
Concentration per Run 2	93.347 %	24.275 ppb	21.011 ppb	203.211 ppb	220.407 ppb	92.485 %	10.364 ppb	10.951 ppb	86.751 %
Concentration per Run 3	89.312 %	22.974 ppb	23.932 ppb	198.468 ppb	218.296 ppb	91.733 %	10.142 ppb	10.323 ppb	86.522 %
Concentration RSD	3.9 %	3.5 %	10.7 %	3.7 %	1.0 %	2.3 %	1.8 %	3.1 %	3.4 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	88.411 ppb	423.477 ppb	92.115 %	90.729 %	23.210 ppb	113.706 ppb	94.639 %
Concentration per Run 1	90.345 ppb	422.745 ppb	94.461 %	95.895 %	22.905 ppb	113.979 ppb	97.137 %
Concentration per Run 2	88.371 ppb	446.778 ppb	91.669 %	90.803 %	23.255 ppb	117.092 ppb	94.350 %
Concentration per Run 3	86.516 ppb	400.907 ppb	90.216 %	85.490 %	23.469 ppb	110.047 ppb	92.430 %
Concentration RSD	2.2 %	5.4 %	2.3 %	5.7 %	1.2 %	3.1 %	2.5 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 52
Analysis label: WG1859880-8d10 6020SL
Analysis started at: 12/6/2023 10:39:16 AM
User name ALPHALAB\Metals-Instrument
Rack 1
Vial 24
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	73.000 %	95.039 %	4.537 ppb	99.197 ppb	3,385.143 ppb	2,313.108 ppb	185.475 ppb	1,797.494 ppb	6,331.731 ppb
Concentration per Run 1	75.146 %	108.054 %	4.476 ppb	97.914 ppb	3,135.567 ppb	2,130.128 ppb	177.350 ppb	1,696.925 ppb	6,223.188 ppb
Concentration per Run 2	72.707 %	87.371 %	4.549 ppb	98.427 ppb	3,601.487 ppb	2,446.602 ppb	195.297 ppb	1,878.442 ppb	6,537.756 ppb
Concentration per Run 3	71.147 %	89.691 %	4.586 ppb	101.250 ppb	3,418.374 ppb	2,362.595 ppb	183.779 ppb	1,817.114 ppb	6,234.249 ppb
Concentration RSD	2.8 %	11.9 %	1.2 %	1.8 %	6.9 %	7.1 %	4.9 %	5.1 %	2.8 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	77.540 %	45.943 ppb	18.522 ppb	44.462 ppb	97.527 ppb	43.801 ppb	43.545 ppb	22.248 ppb	42.644 ppb
Concentration per Run 1	78.459 %	45.717 ppb	17.667 ppb	42.736 ppb	94.462 ppb	41.768 ppb	41.706 ppb	21.214 ppb	40.859 ppb
Concentration per Run 2	77.610 %	45.970 ppb	18.843 ppb	45.765 ppb	103.201 ppb	45.279 ppb	44.087 ppb	22.845 ppb	43.266 ppb
Concentration per Run 3	76.552 %	46.141 ppb	19.056 ppb	44.886 ppb	94.919 ppb	44.355 ppb	44.844 ppb	22.684 ppb	43.806 ppb
Concentration RSD	1.2 %	0.5 %	4.0 %	3.5 %	5.0 %	4.2 %	3.8 %	4.0 %	3.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	96.499 %	10.778 ppb	10.498 ppb	112.023 ppb	94.638 ppb	92.425 %	4.633 ppb	4.781 ppb	91.093 %
Concentration per Run 1	100.173 %	11.049 ppb	9.723 ppb	118.731 ppb	93.443 ppb	92.551 %	4.666 ppb	4.846 ppb	94.351 %
Concentration per Run 2	96.059 %	10.487 ppb	10.124 ppb	110.245 ppb	93.942 ppb	94.087 %	4.450 ppb	4.722 ppb	92.642 %
Concentration per Run 3	93.265 %	10.797 ppb	11.646 ppb	107.094 ppb	96.528 ppb	90.637 %	4.785 ppb	4.775 ppb	86.288 %
Concentration RSD	3.6 %	2.6 %	9.7 %	5.4 %	1.7 %	1.9 %	3.7 %	1.3 %	4.7 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	40.915 ppb	213.388 ppb	91.957 %	90.397 %	10.445 ppb	48.762 ppb	93.255 %
Concentration per Run 1	41.783 ppb	224.676 ppb	93.660 %	94.121 %	10.095 ppb	47.526 ppb	96.486 %
Concentration per Run 2	40.239 ppb	208.513 ppb	92.475 %	91.826 %	10.604 ppb	49.200 ppb	92.095 %
Concentration per Run 3	40.723 ppb	206.975 ppb	89.734 %	85.243 %	10.637 ppb	49.561 ppb	91.183 %
Concentration RSD	1.9 %	4.6 %	2.2 %	5.1 %	2.9 %	2.2 %	3.0 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	53	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859880-9d10 6020SL	Rack	1		
Analysis started at:	12/6/2023 10:43:55 AM	Vial	25		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	71.957 %	93.428 %	49.031 ppb	56.440 ppb	7,769.757 ppb	6,369.304 ppb	48.659 ppb	5,892.343 ppb	10,902.970 ppb
Concentration per Run 1	73.245 %	93.557 %	48.728 ppb	56.276 ppb	8,605.961 ppb	6,771.499 ppb	54.476 ppb	6,388.209 ppb	11,608.776 ppb
Concentration per Run 2	71.990 %	94.330 %	49.263 ppb	56.827 ppb	6,752.528 ppb	6,232.649 ppb	45.300 ppb	5,614.075 ppb	10,678.513 ppb
Concentration per Run 3	70.636 %	92.397 %	49.102 ppb	56.216 ppb	7,950.782 ppb	6,103.765 ppb	46.201 ppb	5,674.746 ppb	10,421.622 ppb
Concentration RSD	1.8 %	1.0 %	0.6 %	0.6 %	12.1 %	5.6 %	10.4 %	7.3 %	5.7 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	80.535 %	51.868 ppb	51.601 ppb	52.106 ppb	4,951.860 ppb	49.093 ppb	49.914 ppb	48.670 ppb	49.545 ppb
Concentration per Run 1	80.579 %	54.924 ppb	52.815 ppb	52.996 ppb	4,899.849 ppb	49.434 ppb	49.705 ppb	48.412 ppb	51.874 ppb
Concentration per Run 2	81.300 %	52.041 ppb	50.618 ppb	51.073 ppb	4,981.812 ppb	49.374 ppb	49.105 ppb	49.398 ppb	48.651 ppb
Concentration per Run 3	79.725 %	48.640 ppb	51.371 ppb	52.248 ppb	4,973.918 ppb	48.470 ppb	50.933 ppb	48.200 ppb	48.111 ppb
Concentration RSD	1.0 %	6.1 %	2.2 %	1.9 %	0.9 %	1.1 %	1.9 %	1.3 %	4.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	94.237 %	47.630 ppb	47.268 ppb	72.050 ppb	54.118 ppb	91.599 %	13.964 ppb	50.433 ppb	88.295 %
Concentration per Run 1	95.271 %	49.738 ppb	51.379 ppb	77.488 ppb	54.343 ppb	89.468 %	14.244 ppb	52.390 ppb	88.906 %
Concentration per Run 2	93.759 %	48.109 ppb	45.847 ppb	71.906 ppb	54.515 ppb	91.385 %	13.677 ppb	49.266 ppb	91.230 %
Concentration per Run 3	93.682 %	45.043 ppb	44.577 ppb	66.756 ppb	53.496 ppb	93.945 %	13.969 ppb	49.644 ppb	84.749 %
Concentration RSD	1.0 %	5.0 %	7.7 %	7.4 %	1.0 %	2.5 %	2.0 %	3.4 %	3.7 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	52.695 ppb	78.207 ppb	91.256 %	88.607 %	45.935 ppb	49.960 ppb	92.233 %
Concentration per Run 1	55.491 ppb	84.878 ppb	90.385 %	87.219 %	44.489 ppb	49.167 ppb	95.245 %
Concentration per Run 2	51.448 ppb	76.128 ppb	92.278 %	91.170 %	46.313 ppb	50.322 ppb	92.313 %
Concentration per Run 3	51.145 ppb	73.617 ppb	91.104 %	87.433 %	47.003 ppb	50.389 ppb	89.141 %
Concentration RSD	4.6 %	7.6 %	1.0 %	2.5 %	2.8 %	1.4 %	3.3 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	54	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859880-10d5 6020SL	Rack	1		
Analysis started at:	12/6/2023 10:48:33 AM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	72.418 %	97.938 %	0.014 ppb	9.882 ppb	4,916.729 ppb	2,587.163 ppb	1.170 ppb	1,623.688 ppb	11,011.665 ppb
Concentration per Run 1	73.939 %	90.271 %	0.017 ppb	10.012 ppb	5,425.746 ppb	2,820.705 ppb	1.918 ppb	1,772.841 ppb	12,110.719 ppb
Concentration per Run 2	72.877 %	98.389 %	0.008 ppb	9.802 ppb	4,943.118 ppb	2,595.901 ppb	1.175 ppb	1,648.621 ppb	10,983.137 ppb
Concentration per Run 3	70.438 %	105.155 %	0.017 ppb	9.833 ppb	4,381.323 ppb	2,344.883 ppb	0.417 ppb	1,449.603 ppb	9,941.138 ppb
Concentration RSD	2.5 %	7.6 %	37.8 %	1.1 %	10.6 %	9.2 %	64.2 %	10.0 %	9.9 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	77.839 %	0.038 ppb	0.317 ppb	0.188 ppb	9.689 ppb	0.054 ppb	0.463 ppb	0.274 ppb	0.302 ppb
Concentration per Run 1	78.176 %	0.075 ppb	0.350 ppb	0.209 ppb	10.576 ppb	0.047 ppb	0.381 ppb	0.305 ppb	0.260 ppb
Concentration per Run 2	77.173 %	0.021 ppb	0.297 ppb	0.180 ppb	9.571 ppb	0.060 ppb	0.554 ppb	0.241 ppb	0.330 ppb
Concentration per Run 3	78.167 %	0.019 ppb	0.304 ppb	0.175 ppb	8.921 ppb	0.054 ppb	0.455 ppb	0.276 ppb	0.316 ppb
Concentration RSD	0.7 %	82.7 %	9.0 %	9.6 %	8.6 %	12.0 %	18.7 %	11.8 %	12.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	93.188 %	0.194 ppb	0.342 ppb	42.326 ppb	1.569 ppb	92.152 %	0.006 ppb	0.005 ppb	85.445 %
Concentration per Run 1	91.360 %	0.349 ppb	0.429 ppb	44.800 ppb	1.542 ppb	89.399 %	0.007 ppb	0.009 ppb	82.019 %
Concentration per Run 2	94.231 %	0.226 ppb	0.298 ppb	42.258 ppb	1.545 ppb	94.087 %	0.004 ppb	-0.001 ppb	87.777 %
Concentration per Run 3	93.973 %	0.008 ppb	0.299 ppb	39.921 ppb	1.619 ppb	92.969 %	0.007 ppb	0.006 ppb	86.539 %
Concentration RSD	1.7 %	88.8 %	21.9 %	5.8 %	2.8 %	2.7 %	23.5 %	102.8 %	3.5 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1.202 ppb	51.763 ppb	91.033 %	87.871 %	0.364 ppb	0.029 ppb	90.878 %
Concentration per Run 1	1.207 ppb	53.605 ppb	88.279 %	84.788 %	0.282 ppb	0.030 ppb	92.870 %
Concentration per Run 2	1.175 ppb	50.401 ppb	93.784 %	91.114 %	0.441 ppb	0.030 ppb	89.638 %
Concentration per Run 3	1.225 ppb	51.282 ppb	91.036 %	87.711 %	0.370 ppb	0.026 ppb	90.125 %
Concentration RSD	2.1 %	3.2 %	3.0 %	3.6 %	21.8 %	8.8 %	1.9 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	55	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2371040-03 6020SL	Rack	1		
Analysis started at:	12/6/2023 10:53:10 AM	Vial	22		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	72.383 %	93.879 %	0.014 ppb	37.089 ppb	32,233.567 ppb	14,515.251 ppb	4.182 ppb	8,976.320 ppb	60,206.666 ppb
Concentration per Run 1	73.815 %	87.178 %	0.008 ppb	36.576 ppb	34,355.565 ppb	15,688.507 ppb	4.934 ppb	9,709.617 ppb	64,093.399 ppb
Concentration per Run 2	72.522 %	95.876 %	0.011 ppb	37.099 ppb	32,148.452 ppb	14,502.602 ppb	4.407 ppb	8,610.753 ppb	58,603.137 ppb
Concentration per Run 3	70.812 %	98.582 %	0.024 ppb	37.592 ppb	30,196.686 ppb	13,354.644 ppb	3.204 ppb	8,608.591 ppb	57,923.463 ppb
Concentration RSD	2.1 %	6.3 %	58.6 %	1.4 %	6.5 %	8.0 %	21.2 %	7.1 %	5.6 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	79.781 %	0.313 ppb	1.789 ppb	1.158 ppb	16.759 ppb	0.287 ppb	2.287 ppb	1.361 ppb	1.423 ppb
Concentration per Run 1	79.650 %	0.325 ppb	1.999 ppb	1.206 ppb	13.275 ppb	0.290 ppb	2.173 ppb	1.501 ppb	1.478 ppb
Concentration per Run 2	80.067 %	0.330 ppb	1.715 ppb	1.170 ppb	17.667 ppb	0.302 ppb	2.521 ppb	1.249 ppb	1.317 ppb
Concentration per Run 3	79.625 %	0.285 ppb	1.652 ppb	1.100 ppb	19.334 ppb	0.268 ppb	2.167 ppb	1.332 ppb	1.472 ppb
Concentration RSD	0.3 %	7.9 %	10.3 %	4.6 %	18.7 %	5.9 %	8.9 %	9.5 %	6.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	90.492 %	0.394 ppb	0.253 ppb	232.260 ppb	1.086 ppb	89.555 %	0.004 ppb	0.018 ppb	86.441 %
Concentration per Run 1	88.445 %	0.631 ppb	0.256 ppb	244.576 ppb	0.995 ppb	86.390 %	0.003 ppb	0.025 ppb	82.751 %
Concentration per Run 2	91.385 %	0.230 ppb	0.369 ppb	231.923 ppb	1.081 ppb	92.481 %	0.006 ppb	0.015 ppb	89.961 %
Concentration per Run 3	91.647 %	0.322 ppb	0.134 ppb	220.280 ppb	1.180 ppb	89.793 %	0.004 ppb	0.015 ppb	86.609 %
Concentration RSD	2.0 %	53.3 %	46.4 %	5.2 %	8.5 %	3.4 %	38.8 %	32.8 %	4.2 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.719 ppb	268.246 ppb	90.804 %	88.570 %	0.123 ppb	0.022 ppb	89.268 %
Concentration per Run 1	0.760 ppb	286.399 ppb	87.245 %	87.937 %	0.079 ppb	0.020 ppb	92.231 %
Concentration per Run 2	0.674 ppb	254.339 ppb	94.061 %	89.663 %	0.139 ppb	0.024 ppb	88.298 %
Concentration per Run 3	0.723 ppb	264.000 ppb	91.107 %	88.111 %	0.151 ppb	0.021 ppb	87.275 %
Concentration RSD	6.0 %	6.1 %	3.8 %	1.1 %	31.6 %	8.9 %	2.9 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	56	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-05 6020SL	Rack	1		
Analysis started at:	12/6/2023 10:57:49 AM	Vial	30		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	74.679 %	97.616 %	0.029 ppb	30.560 ppb	9,246.398 ppb	3,747.018 ppb	4.795 ppb	3,149.991 ppb	21,152.995 ppb
Concentration per Run 1	76.818 %	94.716 %	0.026 ppb	30.565 ppb	9,533.376 ppb	3,796.653 ppb	4.539 ppb	3,276.577 ppb	22,755.643 ppb
Concentration per Run 2	73.678 %	98.969 %	0.031 ppb	30.246 ppb	9,066.744 ppb	3,720.581 ppb	4.706 ppb	3,105.379 ppb	20,452.824 ppb
Concentration per Run 3	73.541 %	99.162 %	0.029 ppb	30.871 ppb	9,139.074 ppb	3,723.821 ppb	5.140 ppb	3,068.016 ppb	20,250.517 ppb
Concentration RSD	2.5 %	2.6 %	9.6 %	1.0 %	2.7 %	1.1 %	6.5 %	3.5 %	6.6 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	80.577 %	0.106 ppb	0.430 ppb	1.529 ppb	5.723 ppb	0.106 ppb	0.804 ppb	0.332 ppb	1.009 ppb
Concentration per Run 1	81.516 %	0.122 ppb	0.454 ppb	1.500 ppb	6.455 ppb	0.117 ppb	0.773 ppb	0.333 ppb	1.056 ppb
Concentration per Run 2	79.248 %	0.058 ppb	0.422 ppb	1.550 ppb	4.941 ppb	0.105 ppb	0.798 ppb	0.331 ppb	1.002 ppb
Concentration per Run 3	80.966 %	0.138 ppb	0.413 ppb	1.538 ppb	5.772 ppb	0.095 ppb	0.839 ppb	0.332 ppb	0.967 ppb
Concentration RSD	1.5 %	39.8 %	5.0 %	1.7 %	13.2 %	10.6 %	4.2 %	0.3 %	4.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	98.106 %	0.303 ppb	1.217 ppb	117.065 ppb	0.464 ppb	92.080 %	0.001 ppb	0.020 ppb	89.606 %
Concentration per Run 1	92.643 %	0.390 ppb	0.987 ppb	121.978 ppb	0.412 ppb	88.289 %	0.001 ppb	0.029 ppb	84.681 %
Concentration per Run 2	98.180 %	0.224 ppb	1.499 ppb	114.893 ppb	0.396 ppb	93.709 %	0.001 ppb	0.016 ppb	92.408 %
Concentration per Run 3	103.494 %	0.295 ppb	1.165 ppb	114.325 ppb	0.583 ppb	94.242 %	0.002 ppb	0.014 ppb	91.728 %
Concentration RSD	5.5 %	27.6 %	21.4 %	3.6 %	22.2 %	3.6 %	19.2 %	40.6 %	4.8 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.538 ppb	14.503 ppb	91.996 %	92.473 %	0.078 ppb	0.014 ppb	91.736 %
Concentration per Run 1	0.540 ppb	15.678 ppb	88.138 %	87.680 %	0.046 ppb	0.013 ppb	92.192 %
Concentration per Run 2	0.550 ppb	13.914 ppb	94.897 %	94.940 %	0.090 ppb	0.014 ppb	92.436 %
Concentration per Run 3	0.526 ppb	13.916 ppb	92.953 %	94.799 %	0.098 ppb	0.014 ppb	90.579 %
Concentration RSD	2.2 %	7.0 %	3.8 %	4.5 %	36.3 %	3.3 %	1.1 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	57	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-06 6020SL	Rack	1		
Analysis started at:	12/6/2023 11:02:27 AM	Vial	31		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	71.081 %	91.624 %	0.009 ppb	64.554 ppb	29,044.107 ppb	22,429.934 ppb	2.384 ppb	42,739.053 ppb	92,353.454 ppb
Concentration per Run 1	72.798 %	87.371 %	0.002 ppb	64.208 ppb	30,442.204 ppb	23,896.864 ppb	2.191 ppb	44,386.999 ppb	91,703.951 ppb
Concentration per Run 2	71.231 %	92.010 %	0.007 ppb	64.063 ppb	28,213.156 ppb	20,211.658 ppb	2.627 ppb	40,054.657 ppb	89,540.961 ppb
Concentration per Run 3	69.214 %	95.490 %	0.017 ppb	65.392 ppb	28,476.962 ppb	23,181.279 ppb	2.333 ppb	43,775.504 ppb	95,815.452 ppb
Concentration RSD	2.5 %	4.4 %	85.7 %	1.1 %	4.2 %	8.7 %	9.3 %	5.5 %	3.5 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	77.874 %	0.308 ppb	0.777 ppb	3,237.961 ppb	10.813 ppb	0.381 ppb	0.934 ppb	1.262 ppb	1.206 ppb
Concentration per Run 1	78.028 %	0.296 ppb	0.811 ppb	3,349.905 ppb	14.036 ppb	0.368 ppb	0.978 ppb	1.286 ppb	1.241 ppb
Concentration per Run 2	79.183 %	0.308 ppb	0.782 ppb	3,147.700 ppb	8.153 ppb	0.388 ppb	0.981 ppb	1.218 ppb	1.183 ppb
Concentration per Run 3	76.411 %	0.319 ppb	0.738 ppb	3,216.278 ppb	10.248 ppb	0.387 ppb	0.845 ppb	1.282 ppb	1.195 ppb
Concentration RSD	1.8 %	3.8 %	4.7 %	3.2 %	27.6 %	3.0 %	8.3 %	3.0 %	2.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	95.739 %	0.462 ppb	0.430 ppb	200.974 ppb	0.452 ppb	90.198 %	0.005 ppb	0.068 ppb	88.953 %
Concentration per Run 1	89.363 %	0.621 ppb	0.587 ppb	201.836 ppb	0.377 ppb	87.976 %	0.005 ppb	0.073 ppb	84.953 %
Concentration per Run 2	95.534 %	0.385 ppb	0.325 ppb	196.965 ppb	0.420 ppb	89.261 %	0.005 ppb	0.082 ppb	87.216 %
Concentration per Run 3	102.319 %	0.379 ppb	0.378 ppb	204.120 ppb	0.560 ppb	93.355 %	0.004 ppb	0.048 ppb	94.688 %
Concentration RSD	6.8 %	29.8 %	32.2 %	1.8 %	21.2 %	3.1 %	11.0 %	26.7 %	5.7 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.360 ppb	85.544 ppb	92.414 %	93.117 %	0.155 ppb	0.020 ppb	89.210 %
Concentration per Run 1	0.340 ppb	87.357 ppb	87.911 %	88.547 %	0.133 ppb	0.020 ppb	89.392 %
Concentration per Run 2	0.393 ppb	82.799 ppb	92.001 %	92.877 %	0.163 ppb	0.021 ppb	87.878 %
Concentration per Run 3	0.346 ppb	86.475 ppb	97.330 %	97.928 %	0.169 ppb	0.019 ppb	90.359 %
Concentration RSD	8.0 %	2.8 %	5.1 %	5.0 %	12.5 %	3.4 %	1.4 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	58	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-07 6020SL	Rack	1		
Analysis started at:	12/6/2023 11:07:06 AM	Vial	32		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	72.083 %	97.874 %	0.012 ppb	131.204 ppb	22,098.924 ppb	12,469.769 ppb	2.485 ppb	12,518.893 ppb	114,086.920 ppb
Concentration per Run 1	74.123 %	94.137 %	0.013 ppb	129.972 ppb	22,334.119 ppb	12,934.656 ppb	2.681 ppb	12,388.101 ppb	115,448.209 ppb
Concentration per Run 2	71.415 %	97.616 %	0.010 ppb	131.489 ppb	21,509.207 ppb	11,886.729 ppb	2.415 ppb	12,139.325 ppb	109,076.173 ppb
Concentration per Run 3	70.712 %	101.869 %	0.012 ppb	132.152 ppb	22,453.446 ppb	12,587.922 ppb	2.359 ppb	13,029.254 ppb	117,736.377 ppb
Concentration RSD	2.5 %	4.0 %	13.9 %	0.9 %	2.3 %	4.3 %	6.9 %	3.7 %	3.9 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	77.767 %	0.295 ppb	0.394 ppb	175.712 ppb	5.807 ppb	0.356 ppb	0.477 ppb	1.737 ppb	0.739 ppb
Concentration per Run 1	77.893 %	0.309 ppb	0.416 ppb	170.545 ppb	4.536 ppb	0.350 ppb	0.482 ppb	1.741 ppb	0.736 ppb
Concentration per Run 2	77.991 %	0.302 ppb	0.402 ppb	175.161 ppb	6.417 ppb	0.355 ppb	0.453 ppb	1.825 ppb	0.716 ppb
Concentration per Run 3	77.419 %	0.274 ppb	0.363 ppb	181.430 ppb	6.467 ppb	0.364 ppb	0.495 ppb	1.644 ppb	0.766 ppb
Concentration RSD	0.4 %	6.3 %	7.0 %	3.1 %	19.0 %	2.0 %	4.5 %	5.2 %	3.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	94.709 %	0.459 ppb	0.201 ppb	462.631 ppb	0.370 ppb	90.611 %	0.002 ppb	0.019 ppb	88.720 %
Concentration per Run 1	90.725 %	0.541 ppb	0.184 ppb	463.333 ppb	0.277 ppb	85.867 %	0.000 ppb	0.020 ppb	84.041 %
Concentration per Run 2	95.070 %	0.329 ppb	0.301 ppb	445.632 ppb	0.391 ppb	90.638 %	0.003 ppb	0.022 ppb	85.512 %
Concentration per Run 3	98.331 %	0.507 ppb	0.118 ppb	478.928 ppb	0.443 ppb	95.329 %	0.003 ppb	0.016 ppb	96.608 %
Concentration RSD	4.0 %	24.8 %	46.1 %	3.6 %	23.0 %	5.2 %	104.1 %	16.6 %	7.7 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.301 ppb	86.765 ppb	90.773 %	90.406 %	0.389 ppb	0.015 ppb	88.794 %
Concentration per Run 1	0.298 ppb	85.964 ppb	84.562 %	85.220 %	0.386 ppb	0.013 ppb	88.344 %
Concentration per Run 2	0.271 ppb	86.350 ppb	90.820 %	87.785 %	0.395 ppb	0.017 ppb	86.408 %
Concentration per Run 3	0.334 ppb	87.981 ppb	96.937 %	98.213 %	0.385 ppb	0.015 ppb	91.631 %
Concentration RSD	10.5 %	1.2 %	6.8 %	7.6 %	1.4 %	12.5 %	3.0 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index: 59
Analysis label: CCV
Analysis started at: 12/6/2023 11:11:44 AM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	69.271 %	93.492 %	62.090 ppb	62.569 ppb	5,790.847 ppb	6,248.499 ppb	64.794 ppb	6,515.845 ppb	6,261.281 ppb
Concentration per Run 1	70.866 %	87.371 %	63.250 ppb	63.834 ppb	6,883.512 ppb	6,587.172 ppb	68.587 ppb	6,512.809 ppb	6,437.892 ppb
Concentration per Run 2	68.595 %	94.330 %	61.826 ppb	61.512 ppb	5,180.231 ppb	5,987.923 ppb	61.606 ppb	6,335.432 ppb	6,233.212 ppb
Concentration per Run 3	68.351 %	98.776 %	61.194 ppb	62.361 ppb	5,308.798 ppb	6,170.402 ppb	64.188 ppb	6,699.293 ppb	6,112.738 ppb
Recovery Percentage 1			103.483 %	104.282 %	96.514 %	104.142 %	107.989 %	108.597 %	104.355 %
Concentration RSD	2.0 %	6.1 %	1.7 %	1.9 %	16.4 %	4.9 %	5.4 %	2.8 %	2.6 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	81.768 %	64.200 ppb	64.525 ppb	65.258 ppb	6,267.634 ppb	62.704 ppb	63.637 ppb	63.208 ppb	61.791 ppb
Concentration per Run 1	81.828 %	65.914 ppb	66.583 ppb	65.401 ppb	6,478.363 ppb	67.522 ppb	68.204 ppb	66.509 ppb	65.162 ppb
Concentration per Run 2	82.144 %	64.297 ppb	65.632 ppb	64.577 ppb	6,458.378 ppb	63.646 ppb	64.775 ppb	65.301 ppb	62.592 ppb
Concentration per Run 3	81.332 %	62.388 ppb	61.359 ppb	65.798 ppb	5,866.161 ppb	56.943 ppb	57.933 ppb	57.815 ppb	57.620 ppb
Recovery Percentage 1		107.000 %	107.541 %	108.764 %	104.461 %	104.506 %	106.062 %	105.347 %	102.985 %
Concentration RSD	0.5 %	2.7 %	4.3 %	1.0 %	5.5 %	8.5 %	8.2 %	7.5 %	6.2 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	90.758 %	61.731 ppb	59.707 ppb	62.147 ppb	62.193 ppb	90.752 %	62.088 ppb	61.507 ppb	86.739 %
Concentration per Run 1	83.851 %	65.181 ppb	61.610 ppb	63.192 ppb	63.262 ppb	85.891 %	63.378 ppb	62.679 ppb	83.294 %
Concentration per Run 2	86.163 %	63.030 ppb	61.626 ppb	62.191 ppb	61.849 ppb	89.927 %	62.225 ppb	61.872 ppb	83.715 %
Concentration per Run 3	102.261 %	56.981 ppb	55.886 ppb	61.057 ppb	61.468 ppb	96.438 %	60.661 ppb	59.969 ppb	93.207 %
Recovery Percentage 1		102.885 %	99.512 %	103.578 %	103.656 %		103.480 %	102.512 %	
Concentration RSD	11.0 %	6.9 %	5.5 %	1.7 %	1.5 %	5.9 %	2.2 %	2.3 %	6.5 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	61.320 ppb	65.462 ppb	90.561 %	88.189 %	54.003 ppb	57.634 ppb	94.493 %
Concentration per Run 1	61.598 ppb	65.781 ppb	87.092 %	82.460 %	51.377 ppb	55.600 ppb	96.936 %
Concentration per Run 2	60.820 ppb	64.133 ppb	89.748 %	87.927 %	55.490 ppb	58.699 ppb	91.373 %
Concentration per Run 3	61.542 ppb	66.471 ppb	94.842 %	94.179 %	55.141 ppb	58.601 ppb	95.170 %
Recovery Percentage 1	102.200 %	109.103 %			90.005 %	96.056 %	
Concentration RSD	0.7 %	1.8 %	4.3 %	6.6 %	4.2 %	3.1 %	3.0 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	60	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 11:17:05 AM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	68.424 %	92.204 %	0.017 ppb	3.804 ppb	18.248 ppb	0.901 ppb	0.220 ppb	11.206 ppb	11.003 ppb
Concentration per Run 1	70.242 %	93.363 %	0.023 ppb	3.795 ppb	19.643 ppb	1.024 ppb	0.473 ppb	12.356 ppb	8.510 ppb
Concentration per Run 2	68.182 %	92.590 %	0.009 ppb	3.828 ppb	16.846 ppb	0.514 ppb	0.009 ppb	8.431 ppb	14.528 ppb
Concentration per Run 3	66.847 %	90.657 %	0.019 ppb	3.789 ppb	18.255 ppb	1.165 ppb	0.177 ppb	12.831 ppb	9.972 ppb
Recovery Percentage 1			3.344 %	38.041 %	18.248 %	1.287 %	2.198 %	11.206 %	11.003 %
Concentration RSD	2.5 %	1.5 %	42.6 %	0.6 %	7.7 %	38.0 %	106.8 %	21.5 %	28.5 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	71.894 %	0.032 ppb	0.056 ppb	0.079 ppb	6.867 ppb	0.001 ppb	0.061 ppb	0.026 ppb	0.365 ppb
Concentration per Run 1	72.657 %	0.030 ppb	0.040 ppb	0.065 ppb	8.540 ppb	-0.001 ppb	0.095 ppb	0.017 ppb	0.370 ppb
Concentration per Run 2	72.267 %	0.022 ppb	0.028 ppb	0.045 ppb	5.227 ppb	0.000 ppb	0.038 ppb	0.034 ppb	0.328 ppb
Concentration per Run 3	70.759 %	0.043 ppb	0.101 ppb	0.128 ppb	6.835 ppb	0.003 ppb	0.050 ppb	0.026 ppb	0.398 ppb
Recovery Percentage 1		0.631 %	5.611 %	7.912 %	13.735 %	0.126 %	3.054 %	2.560 %	7.309 %
Concentration RSD	1.4 %	33.6 %	69.7 %	54.8 %	24.1 %	380.0 %	48.6 %	31.9 %	9.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	87.208 %	0.405 ppb	0.206 ppb	0.025 ppb	0.651 ppb	89.055 %	0.008 ppb	0.001 ppb	83.929 %
Concentration per Run 1	79.196 %	0.554 ppb	0.300 ppb	0.025 ppb	0.572 ppb	84.969 %	0.007 ppb	-0.001 ppb	76.759 %
Concentration per Run 2	94.388 %	0.360 ppb	0.010 ppb	0.030 ppb	0.607 ppb	93.690 %	0.007 ppb	-0.001 ppb	90.007 %
Concentration per Run 3	88.041 %	0.301 ppb	0.309 ppb	0.018 ppb	0.776 ppb	88.506 %	0.008 ppb	0.004 ppb	85.022 %
Recovery Percentage 1		81.049 %	4.128 %	0.246 %	32.571 %		1.891 %	0.435 %	
Concentration RSD	8.7 %	32.6 %	82.2 %	24.4 %	16.8 %	4.9 %	10.9 %	304.5 %	8.0 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.221 ppb	0.014 ppb	85.144 %	85.116 %	0.353 ppb	0.020 ppb	88.620 %
Concentration per Run 1	0.223 ppb	0.039 ppb	81.555 %	79.614 %	0.271 ppb	0.020 ppb	88.079 %
Concentration per Run 2	0.218 ppb	0.002 ppb	88.227 %	92.215 %	0.407 ppb	0.020 ppb	90.498 %
Concentration per Run 3	0.224 ppb	0.002 ppb	85.651 %	83.520 %	0.383 ppb	0.020 ppb	87.284 %
Recovery Percentage 1	5.536 %	2.829 %			35.339 %	2.001 %	
Concentration RSD	1.5 %	150.0 %	4.0 %	7.6 %	20.6 %	2.2 %	1.9 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	61	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-08 6020SL	Rack	1		
Analysis started at:	12/6/2023 11:24:52 AM	Vial	33		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	72.499 %	92.590 %	0.009 ppb	86.480 ppb	10,755.424 ppb	2,367.729 ppb	3.100 ppb	41,222.456 ppb	20,188.567 ppb
Concentration per Run 1	73.198 %	90.077 %	0.008 ppb	87.027 ppb	11,082.233 ppb	2,473.607 ppb	3.302 ppb	41,305.182 ppb	20,285.069 ppb
Concentration per Run 2	72.617 %	94.910 %	0.010 ppb	85.516 ppb	10,571.828 ppb	2,236.550 ppb	3.014 ppb	37,547.378 ppb	19,475.137 ppb
Concentration per Run 3	71.683 %	92.783 %	0.010 ppb	86.896 ppb	10,612.210 ppb	2,393.030 ppb	2.986 ppb	44,814.807 ppb	20,805.495 ppb
Concentration RSD	1.1 %	2.6 %	15.8 %	1.0 %	2.6 %	5.1 %	5.6 %	8.8 %	3.3 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	78.562 %	0.268 ppb	0.507 ppb	1.661 ppb	5.654 ppb	0.386 ppb	0.888 ppb	3.963 ppb	0.390 ppb
Concentration per Run 1	77.644 %	0.279 ppb	0.486 ppb	1.630 ppb	5.959 ppb	0.401 ppb	0.972 ppb	4.007 ppb	0.330 ppb
Concentration per Run 2	78.873 %	0.216 ppb	0.530 ppb	1.675 ppb	5.802 ppb	0.390 ppb	0.848 ppb	4.005 ppb	0.429 ppb
Concentration per Run 3	79.169 %	0.309 ppb	0.504 ppb	1.679 ppb	5.202 ppb	0.369 ppb	0.845 ppb	3.877 ppb	0.410 ppb
Concentration RSD	1.0 %	17.7 %	4.3 %	1.6 %	7.1 %	4.1 %	8.2 %	1.9 %	13.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	93.723 %	0.582 ppb	1.085 ppb	69.451 ppb	0.633 ppb	91.021 %	0.005 ppb	0.002 ppb	87.599 %
Concentration per Run 1	91.103 %	0.743 ppb	1.122 ppb	70.204 ppb	0.626 ppb	89.203 %	0.004 ppb	0.002 ppb	86.369 %
Concentration per Run 2	95.255 %	0.481 ppb	1.221 ppb	68.482 ppb	0.622 ppb	92.162 %	0.005 ppb	0.004 ppb	87.775 %
Concentration per Run 3	94.811 %	0.522 ppb	0.911 ppb	69.666 ppb	0.650 ppb	91.698 %	0.006 ppb	0.002 ppb	88.652 %
Concentration RSD	2.4 %	24.2 %	14.6 %	1.3 %	2.4 %	1.7 %	20.0 %	55.0 %	1.3 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.262 ppb	38.945 ppb	91.714 %	89.402 %	0.275 ppb	0.027 ppb	96.893 %
Concentration per Run 1	0.253 ppb	38.829 ppb	88.955 %	86.935 %	0.241 ppb	0.027 ppb	99.949 %
Concentration per Run 2	0.255 ppb	38.683 ppb	92.307 %	89.094 %	0.297 ppb	0.024 ppb	96.244 %
Concentration per Run 3	0.277 ppb	39.323 ppb	93.879 %	92.178 %	0.288 ppb	0.028 ppb	94.487 %
Concentration RSD	5.1 %	0.9 %	2.7 %	2.9 %	11.0 %	7.3 %	2.9 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	62	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-09 6020SL	Rack	1		
Analysis started at:	12/6/2023 11:29:31 AM	Vial	34		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	74.088 %	100.773 %	0.028 ppb	30.757 ppb	8,935.268 ppb	3,576.810 ppb	4.934 ppb	3,009.485 ppb	20,174.700 ppb
Concentration per Run 1	75.497 %	93.750 %	0.029 ppb	30.628 ppb	9,307.568 ppb	3,664.020 ppb	4.294 ppb	3,143.648 ppb	20,934.840 ppb
Concentration per Run 2	74.478 %	99.356 %	0.025 ppb	30.619 ppb	8,909.884 ppb	3,594.433 ppb	5.150 ppb	2,958.072 ppb	19,595.814 ppb
Concentration per Run 3	72.289 %	109.214 %	0.029 ppb	31.023 ppb	8,588.352 ppb	3,471.977 ppb	5.358 ppb	2,926.735 ppb	19,993.447 ppb
Concentration RSD	2.2 %	7.8 %	7.1 %	0.8 %	4.0 %	2.7 %	11.4 %	3.9 %	3.4 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	78.696 %	0.093 ppb	0.530 ppb	1.472 ppb	7.589 ppb	0.091 ppb	0.841 ppb	0.322 ppb	0.722 ppb
Concentration per Run 1	78.689 %	0.068 ppb	0.637 ppb	1.474 ppb	7.798 ppb	0.092 ppb	0.934 ppb	0.337 ppb	0.765 ppb
Concentration per Run 2	79.806 %	0.108 ppb	0.462 ppb	1.624 ppb	8.314 ppb	0.087 ppb	0.935 ppb	0.329 ppb	0.740 ppb
Concentration per Run 3	77.594 %	0.103 ppb	0.490 ppb	1.319 ppb	6.656 ppb	0.093 ppb	0.653 ppb	0.301 ppb	0.659 ppb
Concentration RSD	1.4 %	23.7 %	17.7 %	10.3 %	11.2 %	3.7 %	19.3 %	5.9 %	7.7 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	95.679 %	0.498 ppb	1.605 ppb	114.772 ppb	0.294 ppb	91.553 %	-0.001 ppb	0.020 ppb	90.532 %
Concentration per Run 1	88.272 %	0.681 ppb	1.544 ppb	115.969 ppb	0.276 ppb	89.060 %	0.000 ppb	0.020 ppb	86.509 %
Concentration per Run 2	95.355 %	0.500 ppb	1.942 ppb	112.459 ppb	0.285 ppb	90.842 %	-0.001 ppb	0.024 ppb	87.620 %
Concentration per Run 3	103.411 %	0.313 ppb	1.329 ppb	115.889 ppb	0.321 ppb	94.756 %	-0.001 ppb	0.016 ppb	97.467 %
Concentration RSD	7.9 %	37.0 %	19.4 %	1.7 %	8.0 %	3.2 %	112.9 %	20.6 %	6.7 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.150 ppb	13.790 ppb	91.127 %	90.417 %	0.067 ppb	0.014 ppb	92.701 %
Concentration per Run 1	0.131 ppb	13.684 ppb	88.311 %	86.418 %	0.035 ppb	0.013 ppb	92.260 %
Concentration per Run 2	0.161 ppb	13.891 ppb	89.596 %	89.294 %	0.082 ppb	0.013 ppb	90.962 %
Concentration per Run 3	0.156 ppb	13.796 ppb	95.475 %	95.540 %	0.086 ppb	0.015 ppb	94.880 %
Concentration RSD	10.8 %	0.8 %	4.2 %	5.2 %	41.5 %	10.4 %	2.2 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	63	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2370783-11 6020SL	Rack	1		
Analysis started at:	12/6/2023 11:34:10 AM	Vial	35		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	73.567 %	95.941 %	0.009 ppb	12.797 ppb	9,902.912 ppb	1,007.282 ppb	7.462 ppb	832.910 ppb	4,608.696 ppb
Concentration per Run 1	74.456 %	94.523 %	0.004 ppb	12.755 ppb	9,791.898 ppb	998.400 ppb	8.345 ppb	822.499 ppb	4,603.284 ppb
Concentration per Run 2	74.467 %	95.683 %	0.013 ppb	12.836 ppb	10,002.417 ppb	1,019.388 ppb	6.249 ppb	812.900 ppb	4,522.509 ppb
Concentration per Run 3	71.777 %	97.616 %	0.009 ppb	12.801 ppb	9,914.421 ppb	1,004.059 ppb	7.792 ppb	863.332 ppb	4,700.295 ppb
Concentration RSD	2.1 %	1.6 %	56.6 %	0.3 %	1.1 %	1.1 %	14.6 %	3.2 %	1.9 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	78.480 %	0.081 ppb	0.223 ppb	1.694 ppb	6.274 ppb	0.011 ppb	0.012 ppb	0.112 ppb	0.201 ppb
Concentration per Run 1	79.406 %	0.091 ppb	0.251 ppb	1.494 ppb	6.980 ppb	0.013 ppb	0.026 ppb	0.102 ppb	0.240 ppb
Concentration per Run 2	79.088 %	0.054 ppb	0.190 ppb	1.885 ppb	6.196 ppb	0.010 ppb	0.007 ppb	0.112 ppb	0.194 ppb
Concentration per Run 3	76.947 %	0.099 ppb	0.230 ppb	1.702 ppb	5.647 ppb	0.011 ppb	0.005 ppb	0.122 ppb	0.170 ppb
Concentration RSD	1.7 %	29.3 %	13.9 %	11.5 %	10.7 %	9.4 %	92.5 %	8.8 %	17.6 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	93.644 %	0.526 ppb	0.189 ppb	59.403 ppb	0.164 ppb	92.296 %	0.000 ppb	0.011 ppb	89.069 %
Concentration per Run 1	89.790 %	0.508 ppb	0.314 ppb	58.128 ppb	0.142 ppb	88.733 %	-0.001 ppb	0.022 ppb	83.734 %
Concentration per Run 2	93.866 %	0.605 ppb	0.114 ppb	58.864 ppb	0.193 ppb	89.998 %	0.001 ppb	0.006 ppb	87.673 %
Concentration per Run 3	97.276 %	0.464 ppb	0.138 ppb	61.218 ppb	0.159 ppb	98.159 %	0.002 ppb	0.005 ppb	95.798 %
Concentration RSD	4.0 %	13.7 %	57.9 %	2.7 %	16.0 %	5.5 %	286.8 %	85.2 %	6.9 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.246 ppb	1.894 ppb	90.885 %	89.763 %	0.052 ppb	0.025 ppb	93.595 %
Concentration per Run 1	0.243 ppb	1.821 ppb	87.495 %	85.911 %	0.030 ppb	0.024 ppb	92.872 %
Concentration per Run 2	0.226 ppb	1.697 ppb	89.518 %	87.895 %	0.061 ppb	0.026 ppb	90.824 %
Concentration per Run 3	0.271 ppb	2.165 ppb	95.641 %	95.483 %	0.064 ppb	0.023 ppb	97.091 %
Concentration RSD	9.3 %	12.8 %	4.7 %	5.6 %	36.6 %	6.7 %	3.4 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	64	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2371040-01 6020SL	Rack	1		
Analysis started at:	12/6/2023 11:38:50 AM	Vial	36		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	71.673 %	97.809 %	0.016 ppb	18.030 ppb	17,212.012 ppb	7,206.820 ppb	3.602 ppb	2,079.262 ppb	18,089.100 ppb
Concentration per Run 1	73.086 %	93.170 %	0.012 ppb	18.024 ppb	17,446.590 ppb	7,481.793 ppb	2.683 ppb	2,034.520 ppb	17,883.538 ppb
Concentration per Run 2	71.539 %	101.482 %	0.019 ppb	17.892 ppb	16,483.191 ppb	6,660.816 ppb	3.997 ppb	2,018.115 ppb	17,808.063 ppb
Concentration per Run 3	70.393 %	98.776 %	0.017 ppb	18.174 ppb	17,706.256 ppb	7,477.851 ppb	4.127 ppb	2,185.151 ppb	18,575.698 ppb
Concentration RSD	1.9 %	4.3 %	21.6 %	0.8 %	3.7 %	6.6 %	22.2 %	4.4 %	2.3 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	77.587 %	0.270 ppb	1.672 ppb	0.681 ppb	3.998 ppb	0.066 ppb	0.678 ppb	0.374 ppb	0.611 ppb
Concentration per Run 1	78.357 %	0.272 ppb	1.657 ppb	0.628 ppb	3.952 ppb	0.067 ppb	0.706 ppb	0.375 ppb	0.669 ppb
Concentration per Run 2	77.461 %	0.269 ppb	1.609 ppb	0.696 ppb	5.305 ppb	0.080 ppb	0.685 ppb	0.404 ppb	0.527 ppb
Concentration per Run 3	76.944 %	0.268 ppb	1.748 ppb	0.719 ppb	2.738 ppb	0.051 ppb	0.642 ppb	0.344 ppb	0.636 ppb
Concentration RSD	0.9 %	0.8 %	4.2 %	7.0 %	32.1 %	21.9 %	4.8 %	8.0 %	12.1 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	95.186 %	0.272 ppb	0.053 ppb	73.099 ppb	0.140 ppb	91.584 %	0.000 ppb	0.012 ppb	91.021 %
Concentration per Run 1	92.772 %	0.332 ppb	0.072 ppb	72.625 ppb	0.118 ppb	86.064 %	0.000 ppb	0.009 ppb	85.196 %
Concentration per Run 2	89.891 %	0.339 ppb	0.070 ppb	72.640 ppb	0.128 ppb	91.463 %	0.000 ppb	0.010 ppb	87.530 %
Concentration per Run 3	102.894 %	0.144 ppb	0.015 ppb	74.031 ppb	0.175 ppb	97.224 %	0.001 ppb	0.017 ppb	100.337 %
Concentration RSD	7.2 %	40.8 %	62.1 %	1.1 %	22.0 %	6.1 %	104.4 %	37.7 %	9.0 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.120 ppb	52.871 ppb	91.941 %	90.701 %	0.041 ppb	0.011 ppb	91.389 %
Concentration per Run 1	0.117 ppb	54.349 ppb	86.712 %	83.983 %	0.026 ppb	0.010 ppb	90.273 %
Concentration per Run 2	0.129 ppb	52.591 ppb	90.866 %	90.776 %	0.049 ppb	0.011 ppb	88.382 %
Concentration per Run 3	0.114 ppb	51.672 ppb	98.245 %	97.345 %	0.047 ppb	0.013 ppb	95.513 %
Concentration RSD	6.9 %	2.6 %	6.4 %	7.4 %	31.7 %	14.2 %	4.0 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	65	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2371040-02 6020SL	Rack	1		
Analysis started at:	12/6/2023 11:44:12 AM	Vial	37		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	71.026 %	93.814 %	0.015 ppb	20.663 ppb	30,429.653 ppb	13,212.427 ppb	3.524 ppb	1,263.348 ppb	23,863.821 ppb
Concentration per Run 1	73.018 %	88.917 %	0.015 ppb	20.579 ppb	30,978.609 ppb	13,361.001 ppb	2.876 ppb	1,258.744 ppb	23,106.422 ppb
Concentration per Run 2	70.929 %	96.843 %	0.018 ppb	20.542 ppb	30,623.739 ppb	13,455.166 ppb	2.922 ppb	1,312.236 ppb	25,345.658 ppb
Concentration per Run 3	69.130 %	95.683 %	0.011 ppb	20.868 ppb	29,686.611 ppb	12,821.113 ppb	4.775 ppb	1,219.062 ppb	23,139.384 ppb
Concentration RSD	2.7 %	4.6 %	21.9 %	0.9 %	2.2 %	2.6 %	30.7 %	3.7 %	5.4 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	77.910 %	0.348 ppb	2.204 ppb	1.737 ppb	18.248 ppb	0.224 ppb	3.519 ppb	0.394 ppb	1.265 ppb
Concentration per Run 1	80.107 %	0.381 ppb	2.317 ppb	1.753 ppb	20.322 ppb	0.259 ppb	3.762 ppb	0.474 ppb	1.402 ppb
Concentration per Run 2	77.185 %	0.362 ppb	2.255 ppb	1.923 ppb	18.379 ppb	0.221 ppb	3.246 ppb	0.357 ppb	1.281 ppb
Concentration per Run 3	76.438 %	0.302 ppb	2.039 ppb	1.536 ppb	16.041 ppb	0.193 ppb	3.548 ppb	0.350 ppb	1.112 ppb
Concentration RSD	2.5 %	11.8 %	6.6 %	11.2 %	11.7 %	14.8 %	7.4 %	17.8 %	11.5 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	95.295 %	0.428 ppb	0.207 ppb	143.953 ppb	0.649 ppb	92.441 %	0.000 ppb	0.035 ppb	90.299 %
Concentration per Run 1	89.127 %	0.525 ppb	0.232 ppb	144.099 ppb	0.611 ppb	86.904 %	0.001 ppb	0.045 ppb	86.585 %
Concentration per Run 2	97.259 %	0.371 ppb	0.221 ppb	151.209 ppb	0.636 ppb	96.365 %	0.001 ppb	0.034 ppb	95.487 %
Concentration per Run 3	99.499 %	0.389 ppb	0.167 ppb	136.551 ppb	0.701 ppb	94.053 %	0.000 ppb	0.026 ppb	88.825 %
Concentration RSD	5.7 %	19.6 %	16.9 %	5.1 %	7.1 %	5.3 %	215.0 %	27.8 %	5.1 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.102 ppb	78.603 ppb	91.700 %	91.915 %	0.033 ppb	0.032 ppb	93.024 %
Concentration per Run 1	0.094 ppb	79.814 ppb	88.415 %	85.491 %	0.018 ppb	0.035 ppb	92.917 %
Concentration per Run 2	0.102 ppb	82.243 ppb	94.998 %	97.040 %	0.033 ppb	0.029 ppb	95.053 %
Concentration per Run 3	0.111 ppb	73.751 ppb	91.686 %	93.215 %	0.047 ppb	0.033 ppb	91.102 %
Concentration RSD	8.7 %	5.6 %	3.6 %	6.4 %	44.3 %	8.8 %	2.1 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	66	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2371040-04 6020SL	Rack	1		
Analysis started at:	12/6/2023 11:48:50 AM	Vial	38		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	70.862 %	96.778 %	0.011 ppb	27.619 ppb	22,292.511 ppb	13,940.673 ppb	3.304 ppb	14,458.782 ppb	39,228.778 ppb
Concentration per Run 1	72.618 %	96.263 %	0.013 ppb	27.316 ppb	22,214.198 ppb	13,836.069 ppb	2.304 ppb	14,445.084 ppb	38,905.188 ppb
Concentration per Run 2	70.946 %	98.003 %	0.008 ppb	27.782 ppb	22,410.006 ppb	14,246.574 ppb	3.345 ppb	14,894.030 ppb	40,413.608 ppb
Concentration per Run 3	69.022 %	96.070 %	0.011 ppb	27.758 ppb	22,253.330 ppb	13,739.377 ppb	4.263 ppb	14,037.233 ppb	38,367.540 ppb
Concentration RSD	2.5 %	1.1 %	27.0 %	1.0 %	0.5 %	1.9 %	29.7 %	3.0 %	2.7 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	77.964 %	0.324 ppb	1.117 ppb	3.826 ppb	7.440 ppb	0.192 ppb	1.414 ppb	1.469 ppb	0.730 ppb
Concentration per Run 1	78.790 %	0.324 ppb	1.132 ppb	3.752 ppb	7.581 ppb	0.197 ppb	1.467 ppb	1.514 ppb	0.872 ppb
Concentration per Run 2	77.937 %	0.359 ppb	1.153 ppb	3.638 ppb	6.419 ppb	0.176 ppb	1.429 ppb	1.467 ppb	0.673 ppb
Concentration per Run 3	77.165 %	0.288 ppb	1.067 ppb	4.087 ppb	8.320 ppb	0.204 ppb	1.347 ppb	1.425 ppb	0.645 ppb
Concentration RSD	1.0 %	11.0 %	4.0 %	6.1 %	12.9 %	7.6 %	4.3 %	3.0 %	17.0 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	96.490 %	0.596 ppb	0.343 ppb	217.482 ppb	0.200 ppb	91.078 %	0.001 ppb	0.025 ppb	89.073 %
Concentration per Run 1	90.420 %	0.689 ppb	0.544 ppb	215.667 ppb	0.147 ppb	88.029 %	0.001 ppb	0.013 ppb	86.523 %
Concentration per Run 2	100.466 %	0.694 ppb	0.428 ppb	225.313 ppb	0.231 ppb	93.328 %	0.001 ppb	0.031 ppb	94.027 %
Concentration per Run 3	98.584 %	0.404 ppb	0.057 ppb	211.467 ppb	0.221 ppb	91.876 %	0.001 ppb	0.031 ppb	86.669 %
Concentration RSD	5.5 %	27.9 %	74.1 %	3.3 %	22.8 %	3.0 %	37.9 %	41.4 %	4.8 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.130 ppb	270.709 ppb	90.710 %	90.777 %	0.030 ppb	0.011 ppb	92.216 %
Concentration per Run 1	0.123 ppb	274.797 ppb	86.564 %	85.498 %	0.015 ppb	0.010 ppb	91.256 %
Concentration per Run 2	0.134 ppb	273.187 ppb	94.556 %	96.347 %	0.036 ppb	0.013 ppb	93.736 %
Concentration per Run 3	0.134 ppb	264.141 ppb	91.009 %	90.486 %	0.039 ppb	0.010 ppb	91.657 %
Concentration RSD	4.5 %	2.1 %	4.4 %	6.0 %	43.4 %	13.2 %	1.4 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	67	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2371040-05 6020SL	Rack	1		
Analysis started at:	12/6/2023 11:53:28 AM	Vial	39		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	70.980 %	100.644 %	0.011 ppb	27.370 ppb	21,637.393 ppb	13,752.755 ppb	3.106 ppb	14,337.718 ppb	38,775.168 ppb
Concentration per Run 1	72.510 %	93.557 %	0.009 ppb	27.179 ppb	22,211.356 ppb	13,900.215 ppb	2.624 ppb	14,611.324 ppb	39,349.216 ppb
Concentration per Run 2	71.021 %	108.441 %	0.020 ppb	27.303 ppb	21,050.682 ppb	13,704.165 ppb	3.116 ppb	14,640.468 ppb	39,376.859 ppb
Concentration per Run 3	69.408 %	99.936 %	0.004 ppb	27.626 ppb	21,650.140 ppb	13,653.884 ppb	3.578 ppb	13,761.361 ppb	37,599.429 ppb
Concentration RSD	2.2 %	7.4 %	75.4 %	0.8 %	2.7 %	0.9 %	15.4 %	3.5 %	2.6 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	78.274 %	0.274 ppb	1.154 ppb	0.878 ppb	8.596 ppb	0.187 ppb	1.292 ppb	1.544 ppb	0.697 ppb
Concentration per Run 1	78.419 %	0.264 ppb	1.140 ppb	0.857 ppb	8.021 ppb	0.197 ppb	1.298 ppb	1.444 ppb	0.783 ppb
Concentration per Run 2	79.557 %	0.302 ppb	1.133 ppb	0.947 ppb	9.924 ppb	0.173 ppb	1.407 ppb	1.602 ppb	0.641 ppb
Concentration per Run 3	76.845 %	0.255 ppb	1.190 ppb	0.831 ppb	7.843 ppb	0.191 ppb	1.170 ppb	1.585 ppb	0.667 ppb
Concentration RSD	1.7 %	9.1 %	2.7 %	7.0 %	13.4 %	6.5 %	9.2 %	5.6 %	10.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	95.272 %	0.536 ppb	0.317 ppb	217.673 ppb	0.171 ppb	91.657 %	0.001 ppb	0.018 ppb	91.351 %
Concentration per Run 1	92.276 %	0.654 ppb	0.365 ppb	213.014 ppb	0.162 ppb	87.870 %	0.001 ppb	0.018 ppb	84.818 %
Concentration per Run 2	96.270 %	0.531 ppb	0.468 ppb	231.757 ppb	0.083 ppb	93.574 %	0.001 ppb	0.020 ppb	96.748 %
Concentration per Run 3	97.269 %	0.424 ppb	0.119 ppb	208.248 ppb	0.267 ppb	93.527 %	0.000 ppb	0.016 ppb	92.486 %
Concentration RSD	2.8 %	21.5 %	56.5 %	5.7 %	54.0 %	3.6 %	94.0 %	10.1 %	6.6 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.121 ppb	260.308 ppb	91.178 %	91.046 %	0.028 ppb	0.013 ppb	90.688 %
Concentration per Run 1	0.129 ppb	265.327 ppb	88.719 %	90.162 %	0.020 ppb	0.014 ppb	91.598 %
Concentration per Run 2	0.112 ppb	266.075 ppb	94.419 %	93.933 %	0.029 ppb	0.013 ppb	91.639 %
Concentration per Run 3	0.123 ppb	249.521 ppb	90.396 %	89.045 %	0.035 ppb	0.013 ppb	88.826 %
Concentration RSD	6.7 %	3.6 %	3.2 %	2.8 %	27.9 %	4.1 %	1.8 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	68	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	I2371040-06 6020SL	Rack	1		
Analysis started at:	12/6/2023 11:58:05 AM	Vial	40		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	73.644 %	99.162 %	0.002 ppb	8.749 ppb	742.327 ppb	48.196 ppb	11.944 ppb	34.914 ppb	270.274 ppb
Concentration per Run 1	75.304 %	95.490 %	0.003 ppb	8.744 ppb	766.723 ppb	47.617 ppb	11.297 ppb	49.539 ppb	252.148 ppb
Concentration per Run 2	73.505 %	101.289 %	-0.001 ppb	8.686 ppb	740.733 ppb	49.263 ppb	12.300 ppb	29.145 ppb	261.051 ppb
Concentration per Run 3	72.123 %	100.709 %	0.002 ppb	8.817 ppb	719.527 ppb	47.709 ppb	12.236 ppb	26.057 ppb	297.623 ppb
Concentration RSD	2.2 %	3.2 %	140.3 %	0.7 %	3.2 %	1.9 %	4.7 %	36.5 %	8.9 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	79.214 %	0.075 ppb	0.215 ppb	10.678 ppb	14.676 ppb	0.012 ppb	0.062 ppb	0.815 ppb	2.737 ppb
Concentration per Run 1	79.365 %	0.085 ppb	0.199 ppb	11.046 ppb	14.130 ppb	0.011 ppb	0.088 ppb	0.911 ppb	2.799 ppb
Concentration per Run 2	80.019 %	0.042 ppb	0.202 ppb	9.775 ppb	14.423 ppb	0.018 ppb	0.064 ppb	0.759 ppb	2.615 ppb
Concentration per Run 3	78.258 %	0.099 ppb	0.243 ppb	11.214 ppb	15.476 ppb	0.006 ppb	0.035 ppb	0.773 ppb	2.799 ppb
Concentration RSD	1.1 %	39.3 %	11.3 %	7.4 %	4.8 %	54.8 %	42.3 %	10.3 %	3.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	93.735 %	0.235 ppb	0.058 ppb	0.598 ppb	0.076 ppb	94.139 %	0.001 ppb	-0.001 ppb	87.791 %
Concentration per Run 1	87.299 %	0.327 ppb	0.031 ppb	0.613 ppb	0.088 ppb	91.595 %	0.001 ppb	-0.001 ppb	81.656 %
Concentration per Run 2	97.892 %	0.208 ppb	0.182 ppb	0.565 ppb	0.072 ppb	95.347 %	0.001 ppb	-0.001 ppb	91.072 %
Concentration per Run 3	96.015 %	0.170 ppb	-0.038 ppb	0.617 ppb	0.067 ppb	95.475 %	0.002 ppb	-0.001 ppb	90.646 %
Concentration RSD	6.0 %	35.0 %	194.0 %	4.9 %	14.7 %	2.3 %	57.5 %		6.1 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.256 ppb	1.923 ppb	88.379 %	87.287 %	0.021 ppb	0.082 ppb	96.340 %
Concentration per Run 1	0.254 ppb	1.939 ppb	86.405 %	84.699 %	0.008 ppb	0.079 ppb	99.477 %
Concentration per Run 2	0.238 ppb	1.712 ppb	89.389 %	88.963 %	0.022 ppb	0.089 ppb	95.391 %
Concentration per Run 3	0.275 ppb	2.118 ppb	89.342 %	88.198 %	0.031 ppb	0.079 ppb	94.151 %
Concentration RSD	7.2 %	10.6 %	1.9 %	2.6 %	56.0 %	6.6 %	2.9 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	69	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 12:02:43 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	68.153 %	94.330 %	62.195 ppb	61.067 ppb	5,697.368 ppb	6,118.687 ppb	59.152 ppb	6,150.271 ppb	6,256.973 ppb
Concentration per Run 1	69.114 %	95.876 %	62.950 ppb	61.447 ppb	5,380.240 ppb	6,161.670 ppb	59.061 ppb	6,301.725 ppb	6,244.566 ppb
Concentration per Run 2	68.276 %	92.397 %	62.387 ppb	61.377 ppb	5,372.816 ppb	6,099.498 ppb	56.837 ppb	6,102.112 ppb	6,216.384 ppb
Concentration per Run 3	67.070 %	94.716 %	61.247 ppb	60.377 ppb	6,339.048 ppb	6,094.892 ppb	61.559 ppb	6,046.976 ppb	6,309.970 ppb
Recovery Percentage 1			103.658 %	101.778 %	94.956 %	101.978 %	98.587 %	102.505 %	104.283 %
Concentration RSD	1.5 %	1.9 %	1.4 %	1.0 %	9.8 %	0.6 %	4.0 %	2.2 %	0.8 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	79.911 %	62.557 ppb	63.490 ppb	63.969 ppb	6,212.542 ppb	62.247 ppb	62.467 ppb	61.359 ppb	61.581 ppb
Concentration per Run 1	80.341 %	63.853 ppb	64.989 ppb	64.742 ppb	6,446.710 ppb	65.216 ppb	65.278 ppb	63.594 ppb	64.310 ppb
Concentration per Run 2	79.618 %	62.317 ppb	63.828 ppb	63.843 ppb	6,089.534 ppb	62.143 ppb	61.936 ppb	59.585 ppb	59.788 ppb
Concentration per Run 3	79.775 %	61.502 ppb	61.651 ppb	63.323 ppb	6,101.382 ppb	59.382 ppb	60.185 ppb	60.898 ppb	60.646 ppb
Recovery Percentage 1		104.262 %	105.816 %	106.616 %	103.542 %	103.745 %	104.111 %	102.265 %	102.636 %
Concentration RSD	0.5 %	1.9 %	2.7 %	1.1 %	3.3 %	4.7 %	4.1 %	3.3 %	3.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	92.971 %	59.691 ppb	58.375 ppb	60.451 ppb	61.193 ppb	91.055 %	63.488 ppb	63.588 ppb	84.639 %
Concentration per Run 1	87.481 %	63.602 ppb	63.247 ppb	63.232 ppb	62.344 ppb	85.673 %	66.774 ppb	66.564 ppb	79.991 %
Concentration per Run 2	95.195 %	57.637 ppb	56.137 ppb	59.261 ppb	59.957 ppb	92.772 %	61.884 ppb	61.636 ppb	87.102 %
Concentration per Run 3	96.237 %	57.833 ppb	55.743 ppb	58.861 ppb	61.278 ppb	94.721 %	61.807 ppb	62.565 ppb	86.824 %
Recovery Percentage 1		99.484 %	97.292 %	100.752 %	101.988 %		105.814 %	105.981 %	
Concentration RSD	5.1 %	5.7 %	7.2 %	4.0 %	2.0 %	5.2 %	4.5 %	4.1 %	4.8 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	62.725 ppb	65.589 ppb	87.870 %	86.708 %	54.859 ppb	59.221 ppb	92.836 %
Concentration per Run 1	65.472 ppb	68.522 ppb	85.465 %	81.943 %	53.550 ppb	58.021 ppb	95.410 %
Concentration per Run 2	61.047 ppb	64.908 ppb	87.749 %	88.796 %	54.726 ppb	59.857 ppb	91.490 %
Concentration per Run 3	61.657 ppb	63.335 ppb	90.397 %	89.384 %	56.300 ppb	59.786 ppb	91.607 %
Recovery Percentage 1	104.542 %	109.314 %			91.431 %	98.702 %	
Concentration RSD	3.8 %	4.1 %	2.8 %	4.8 %	2.5 %	1.8 %	2.4 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	70	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 12:07:26 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	67.483 %	93.492 %	0.016 ppb	2.770 ppb	8.991 ppb	0.617 ppb	0.615 ppb	7.388 ppb	8.700 ppb
Concentration per Run 1	67.924 %	86.791 %	0.013 ppb	2.855 ppb	19.449 ppb	0.323 ppb	1.045 ppb	14.847 ppb	11.792 ppb
Concentration per Run 2	67.725 %	98.003 %	0.015 ppb	2.757 ppb	3.368 ppb	0.323 ppb	0.379 ppb	2.217 ppb	11.753 ppb
Concentration per Run 3	66.800 %	95.683 %	0.020 ppb	2.698 ppb	4.157 ppb	1.206 ppb	0.419 ppb	5.100 ppb	2.555 ppb
Recovery Percentage 1			3.130 %	27.698 %	8.991 %	0.882 %	6.146 %	7.388 %	8.700 %
Concentration RSD	0.9 %	6.3 %	22.3 %	2.9 %	100.8 %	82.6 %	60.8 %	89.6 %	61.2 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	72.118 %	0.051 ppb	0.046 ppb	-0.008 ppb	9.508 ppb	0.004 ppb	0.049 ppb	0.052 ppb	0.348 ppb
Concentration per Run 1	71.712 %	0.090 ppb	0.042 ppb	-0.048 ppb	8.866 ppb	0.004 ppb	0.059 ppb	0.055 ppb	0.311 ppb
Concentration per Run 2	71.522 %	0.022 ppb	0.068 ppb	0.004 ppb	11.017 ppb	0.001 ppb	0.013 ppb	0.024 ppb	0.342 ppb
Concentration per Run 3	73.120 %	0.040 ppb	0.026 ppb	0.020 ppb	8.641 ppb	0.008 ppb	0.074 ppb	0.078 ppb	0.392 ppb
Recovery Percentage 1		1.017 %	4.555 %	-0.833 %	19.016 %	0.846 %	2.431 %	5.249 %	6.966 %
Concentration RSD	1.2 %	69.4 %	46.0 %	428.1 %	13.8 %	76.0 %	64.6 %	52.4 %	11.8 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	89.177 %	0.282 ppb	0.301 ppb	0.045 ppb	0.857 ppb	90.564 %	0.009 ppb	0.004 ppb	84.809 %
Concentration per Run 1	86.156 %	0.300 ppb	0.268 ppb	0.045 ppb	0.787 ppb	89.097 %	0.008 ppb	0.006 ppb	83.940 %
Concentration per Run 2	91.244 %	0.213 ppb	0.258 ppb	0.048 ppb	0.841 ppb	90.619 %	0.013 ppb	0.004 ppb	83.349 %
Concentration per Run 3	90.132 %	0.334 ppb	0.377 ppb	0.042 ppb	0.944 ppb	91.977 %	0.007 ppb	0.002 ppb	87.139 %
Recovery Percentage 1		56.420 %	6.022 %	0.448 %	42.871 %		2.269 %	1.962 %	
Concentration RSD	3.0 %	22.2 %	21.9 %	7.2 %	9.3 %	1.6 %	36.0 %	59.8 %	2.4 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.098 ppb	-0.003 ppb	87.531 %	84.620 %	0.467 ppb	0.021 ppb	90.760 %
Concentration per Run 1	0.100 ppb	0.002 ppb	86.145 %	83.009 %	0.368 ppb	0.022 ppb	93.183 %
Concentration per Run 2	0.090 ppb	0.002 ppb	88.380 %	85.468 %	0.547 ppb	0.023 ppb	89.211 %
Concentration per Run 3	0.103 ppb	-0.014 ppb	88.069 %	85.383 %	0.484 ppb	0.019 ppb	89.885 %
Recovery Percentage 1	2.447 %	-0.641 %			46.651 %	2.139 %	
Concentration RSD	6.7 %	293.0 %	1.4 %	1.6 %	19.5 %	8.7 %	2.3 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	71	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 1:08:24 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	82.887 %	99.613 %	58.469 ppb	57.435 ppb	5,146.384 ppb	5,937.256 ppb	57.645 ppb	6,015.064 ppb	6,146.998 ppb
Concentration per Run 1	84.956 %	104.382 %	58.259 ppb	57.821 ppb	5,101.671 ppb	5,916.296 ppb	56.017 ppb	5,935.236 ppb	6,102.270 ppb
Concentration per Run 2	83.309 %	98.776 %	58.341 ppb	57.531 ppb	5,028.223 ppb	5,825.910 ppb	53.604 ppb	5,791.160 ppb	6,040.190 ppb
Concentration per Run 3	80.395 %	95.683 %	58.806 ppb	56.953 ppb	5,309.258 ppb	6,069.562 ppb	63.314 ppb	6,318.798 ppb	6,298.534 ppb
Recovery Percentage 1			97.448 %	95.725 %	85.773 %	98.954 %	96.075 %	100.251 %	102.450 %
Concentration RSD	2.8 %	4.4 %	0.5 %	0.8 %	2.8 %	2.1 %	8.8 %	4.5 %	2.2 %

Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	89.010 %	60.307 ppb	62.645 ppb	62.964 ppb	5,985.887 ppb	60.918 ppb	60.574 ppb	61.181 ppb	59.649 ppb
Concentration per Run 1	89.656 %	60.490 ppb	63.749 ppb	64.081 ppb	6,053.089 ppb	62.879 ppb	62.219 ppb	63.448 ppb	61.623 ppb
Concentration per Run 2	89.733 %	60.060 ppb	61.081 ppb	60.967 ppb	5,899.604 ppb	61.683 ppb	60.897 ppb	60.558 ppb	58.784 ppb
Concentration per Run 3	87.641 %	60.369 ppb	63.106 ppb	63.844 ppb	6,004.966 ppb	58.191 ppb	58.605 ppb	59.537 ppb	58.539 ppb
Recovery Percentage 1		100.511 %	104.409 %	104.940 %	99.765 %	101.529 %	100.956 %	101.968 %	99.415 %
Concentration RSD	1.3 %	0.4 %	2.2 %	2.8 %	1.3 %	4.0 %	3.0 %	3.3 %	2.9 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	98.279 %	58.407 ppb	55.175 ppb	58.556 ppb	61.643 ppb	96.569 %	62.871 ppb	62.844 ppb	91.703 %
Concentration per Run 1	93.654 %	61.448 ppb	54.922 ppb	60.573 ppb	61.956 ppb	93.940 %	62.597 ppb	62.131 ppb	91.657 %
Concentration per Run 2	96.582 %	58.311 ppb	55.020 ppb	56.357 ppb	62.046 ppb	96.224 %	62.901 ppb	62.809 ppb	88.528 %
Concentration per Run 3	104.602 %	55.461 ppb	55.582 ppb	58.738 ppb	60.926 ppb	99.542 %	63.116 ppb	63.590 ppb	94.923 %
Recovery Percentage 1		97.344 %	91.958 %	97.594 %	102.738 %		104.786 %	104.739 %	
Concentration RSD	5.8 %	5.1 %	0.6 %	3.6 %	1.0 %	2.9 %	0.4 %	1.2 %	3.5 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.023 ppb	61.930 ppb	94.185 %	91.515 %	56.879 ppb	55.947 ppb	104.185 %
Concentration per Run 1	59.681 ppb	61.279 ppb	92.880 %	90.468 %	56.384 ppb	51.568 ppb	113.173 %
Concentration per Run 2	59.841 ppb	62.282 ppb	92.010 %	88.722 %	57.729 ppb	57.574 ppb	98.908 %
Concentration per Run 3	60.547 ppb	62.229 ppb	97.665 %	95.355 %	56.523 ppb	58.700 ppb	100.472 %
Recovery Percentage 1	100.039 %	103.216 %			94.798 %	93.245 %	
Concentration RSD	0.8 %	0.9 %	3.2 %	3.8 %	1.3 %	6.9 %	7.5 %

Alpha ICPMSQ Data

12/7/2023 11:33:33 AM

Analysis index:	72	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 1:13:07 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	11B (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)
Concentration average	76.874 %	95.296 %	0.008 ppb	1.761 ppb	6.434 ppb	0.747 ppb	0.530 ppb	11.069 ppb	11.038 ppb
Concentration per Run 1	77.570 %	101.869 %	0.005 ppb	1.792 ppb	0.023 ppb	0.289 ppb	0.590 ppb	14.382 ppb	4.898 ppb
Concentration per Run 2	77.029 %	91.430 %	0.010 ppb	1.763 ppb	11.166 ppb	0.701 ppb	0.708 ppb	13.091 ppb	8.263 ppb
Concentration per Run 3	76.024 %	92.590 %	0.010 ppb	1.729 ppb	8.114 ppb	1.251 ppb	0.291 ppb	5.733 ppb	19.952 ppb
Recovery Percentage 1			1.695 %	17.612 %	6.434 %	1.067 %	5.298 %	11.069 %	11.038 %
Concentration RSD	1.0 %	6.0 %	34.3 %	1.8 %	89.5 %	64.6 %	40.5 %	42.2 %	71.6 %

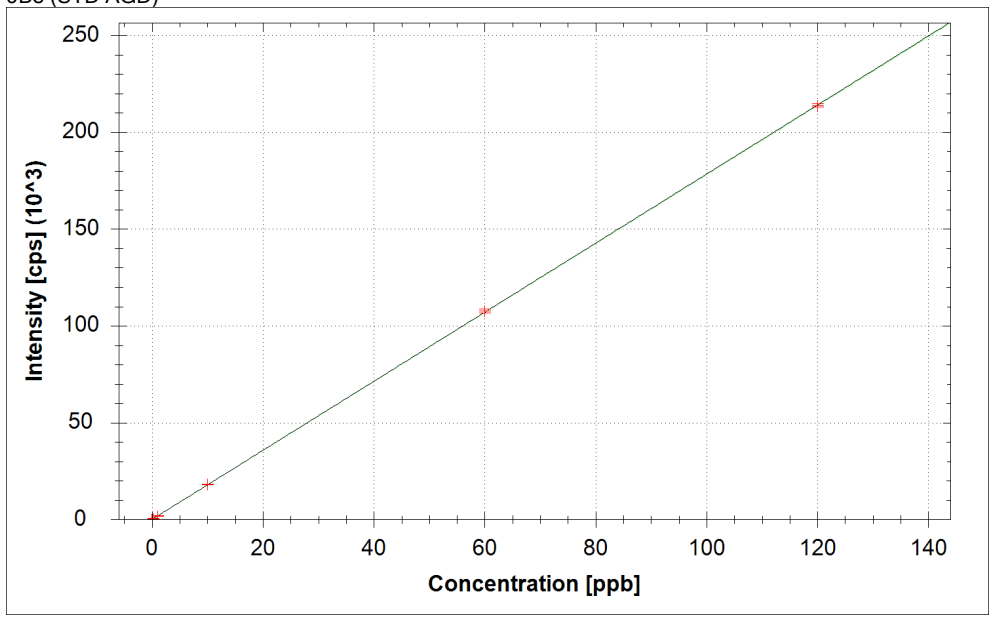
Category	45Sc (STD AGD)	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)
Concentration average	78.718 %	0.018 ppb	0.016 ppb	0.011 ppb	10.459 ppb	0.009 ppb	0.059 ppb	0.045 ppb	0.388 ppb
Concentration per Run 1	78.686 %	0.006 ppb	0.009 ppb	-0.025 ppb	11.718 ppb	0.005 ppb	0.051 ppb	0.047 ppb	0.393 ppb
Concentration per Run 2	79.050 %	0.025 ppb	0.037 ppb	0.096 ppb	10.227 ppb	0.011 ppb	0.049 ppb	0.025 ppb	0.397 ppb
Concentration per Run 3	78.418 %	0.023 ppb	0.003 ppb	-0.038 ppb	9.431 ppb	0.012 ppb	0.078 ppb	0.062 ppb	0.373 ppb
Recovery Percentage 1		0.357 %	1.629 %	1.107 %	20.917 %	1.863 %	2.962 %	4.468 %	7.752 %
Concentration RSD	0.4 %	59.9 %	109.7 %	665.0 %	11.1 %	45.0 %	27.4 %	41.4 %	3.4 %

Category	74Ge (KED AGD)	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)
Concentration average	90.263 %	0.342 ppb	0.352 ppb	0.019 ppb	0.818 ppb	94.960 %	0.010 ppb	0.004 ppb	90.321 %
Concentration per Run 1	89.687 %	0.415 ppb	0.379 ppb	0.005 ppb	0.774 ppb	91.334 %	0.011 ppb	0.008 ppb	87.783 %
Concentration per Run 2	89.194 %	0.324 ppb	0.374 ppb	0.025 ppb	0.791 ppb	96.665 %	0.007 ppb	-0.001 ppb	91.022 %
Concentration per Run 3	91.908 %	0.287 ppb	0.304 ppb	0.026 ppb	0.889 ppb	96.881 %	0.011 ppb	0.004 ppb	92.159 %
Recovery Percentage 1		68.435 %	7.048 %	0.189 %	40.889 %		2.435 %	1.853 %	
Concentration RSD	1.6 %	19.3 %	12.0 %	64.2 %	7.6 %	3.3 %	22.8 %	119.9 %	2.5 %

Category	121Sb (KED AGD)	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.068 ppb	0.012 ppb	90.331 %	89.201 %	0.449 ppb	0.023 ppb	95.275 %
Concentration per Run 1	0.077 ppb	0.018 ppb	86.683 %	86.026 %	0.357 ppb	0.025 ppb	95.687 %
Concentration per Run 2	0.070 ppb	0.032 ppb	88.889 %	90.702 %	0.536 ppb	0.025 ppb	92.897 %
Concentration per Run 3	0.058 ppb	-0.014 ppb	95.420 %	90.876 %	0.454 ppb	0.018 ppb	97.240 %
Recovery Percentage 1	1.711 %	2.406 %			44.924 %	2.280 %	
Concentration RSD	13.7 %	197.2 %	5.0 %	3.1 %	19.9 %	17.6 %	2.3 %

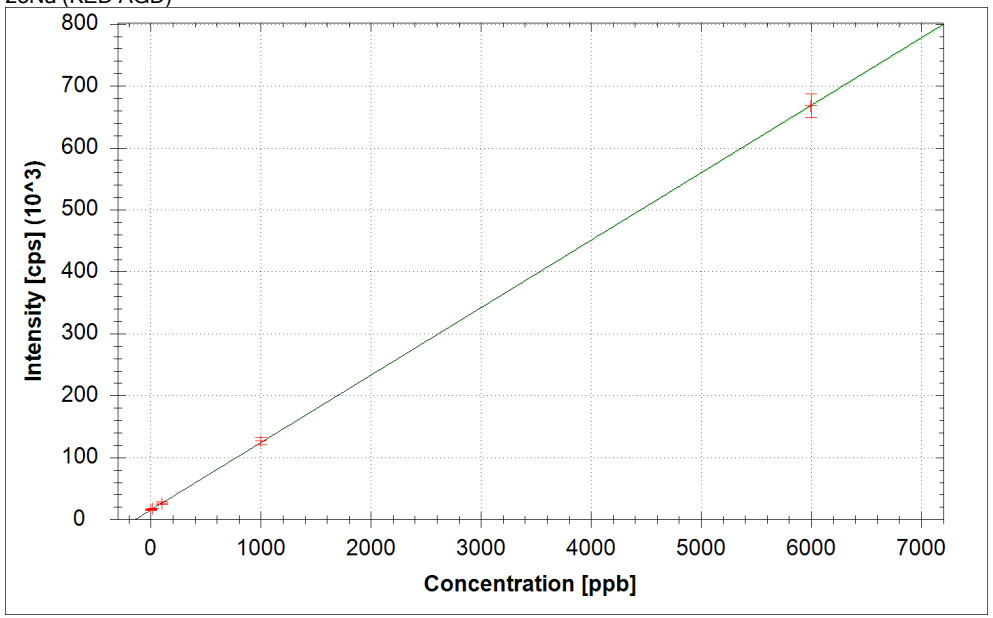
Calibration Curves:

9Be (STD AGD)



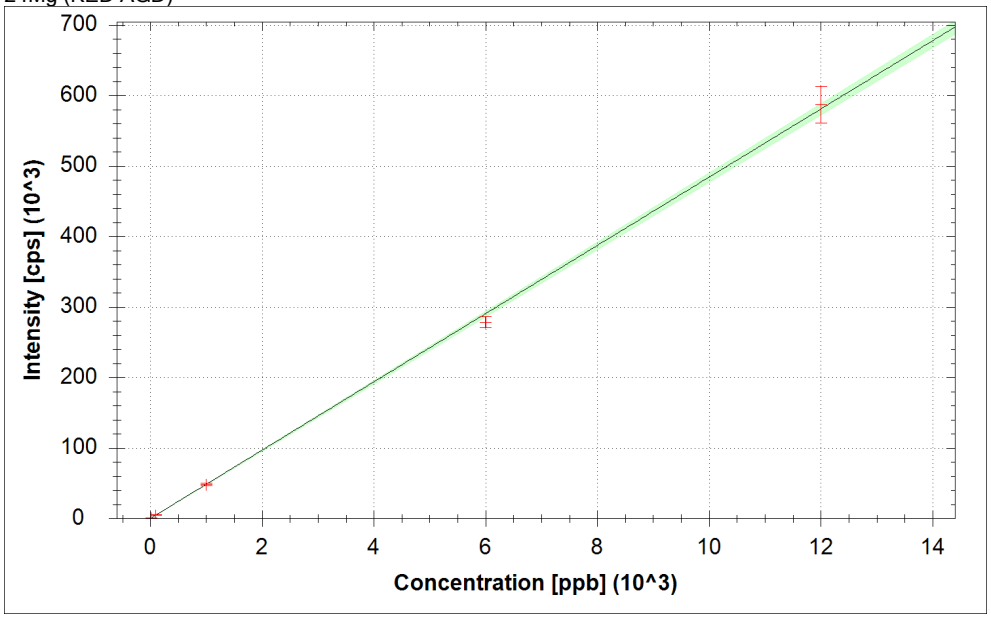
f(x) = 1783.2624*x + 43.0432
R² = 1.0000
BEC = 0.024 ppb
LoD = 0.0135 ppb

23Na (KED AGD)



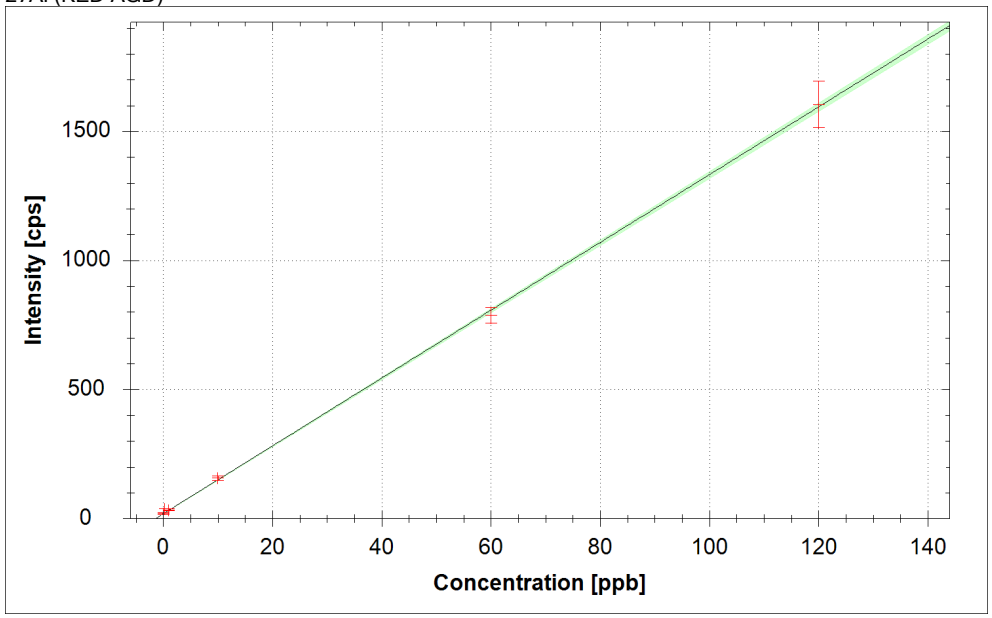
f(x) = 108.8688*x + 15226.7502
R² = 1.0000
BEC = 139.863 ppb
LoD = 26.5421 ppb

24Mg (KED AGD)



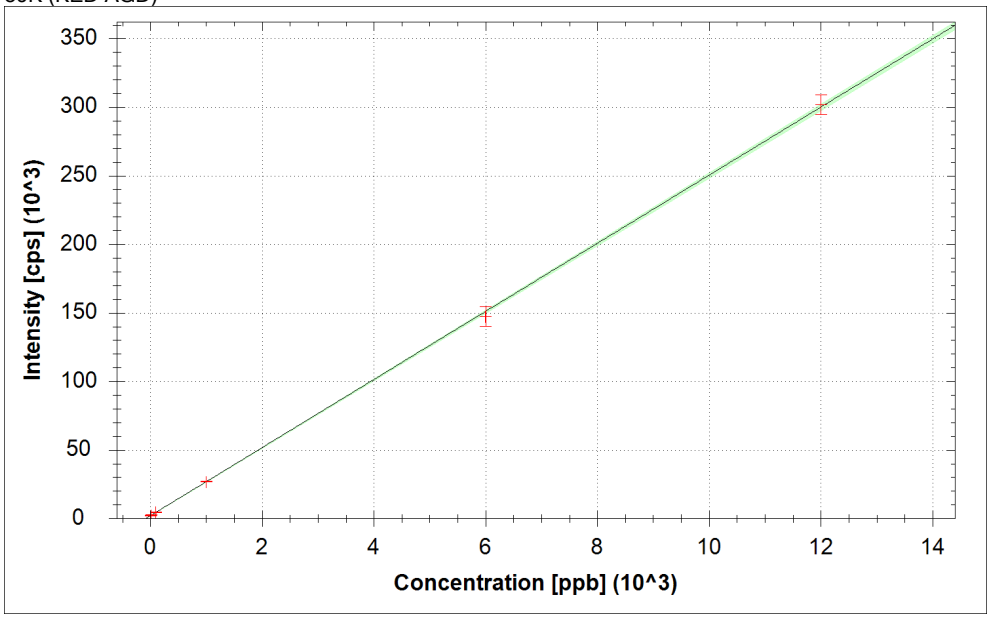
f(x) = 48.4021*x + 54.0324
R² = 0.9993
BEC = 1.116 ppb
LoD = 2.0418 ppb

27Al (KED AGD)



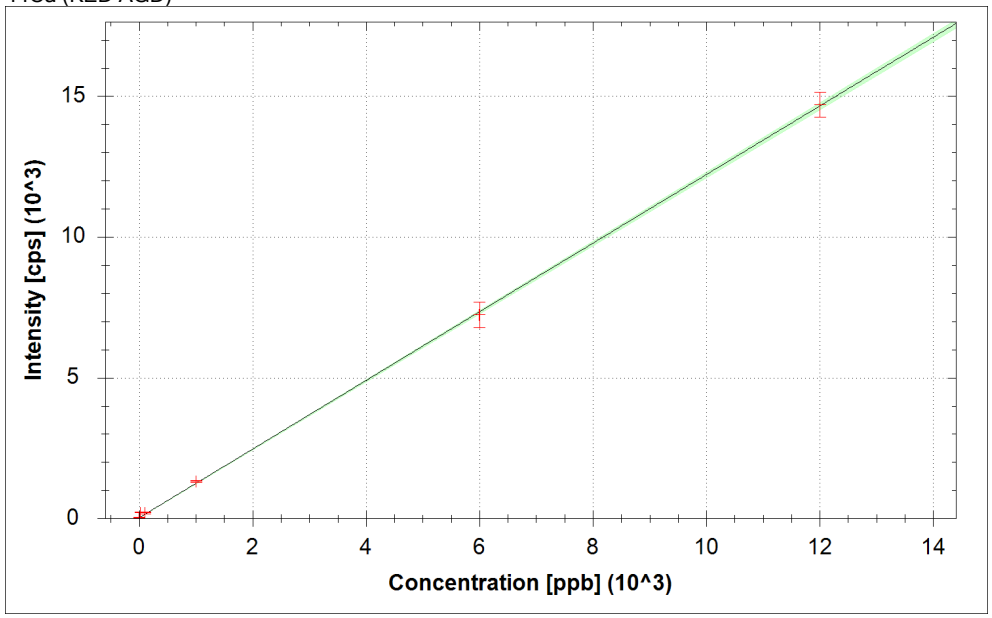
f(x) = 13.1328*x + 18.4178
R² = 0.9996
BEC = 1.402 ppb
LoD = 0.9993 ppb

39K (KED AGD)



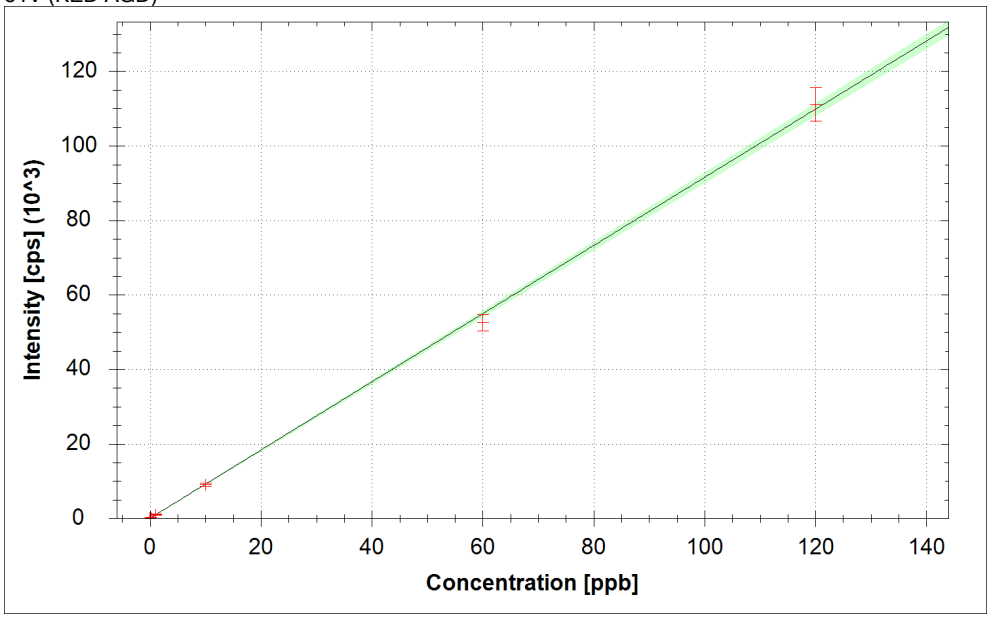
f(x) = 24.8291*x + 1985.3317
R² = 0.9998
BEC = 79.960 ppb
LoD = 40.4295 ppb

44Ca (KED AGD)



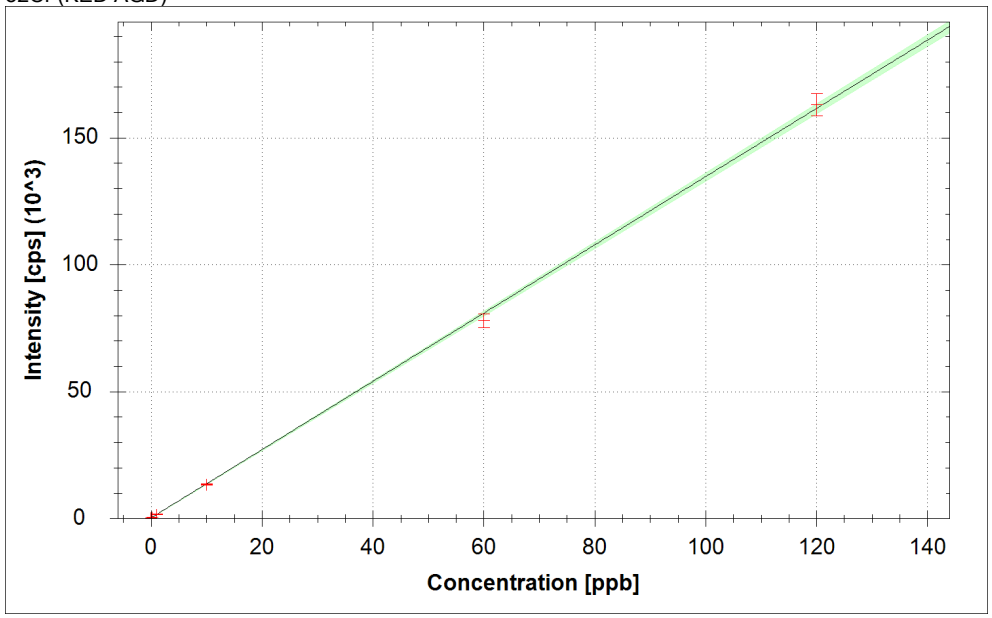
f(x) = 1.2189*x + 24.6804
R² = 0.9997
BEC = 20.248 ppb
LoD = 14.0046 ppb

51V (KED AGD)



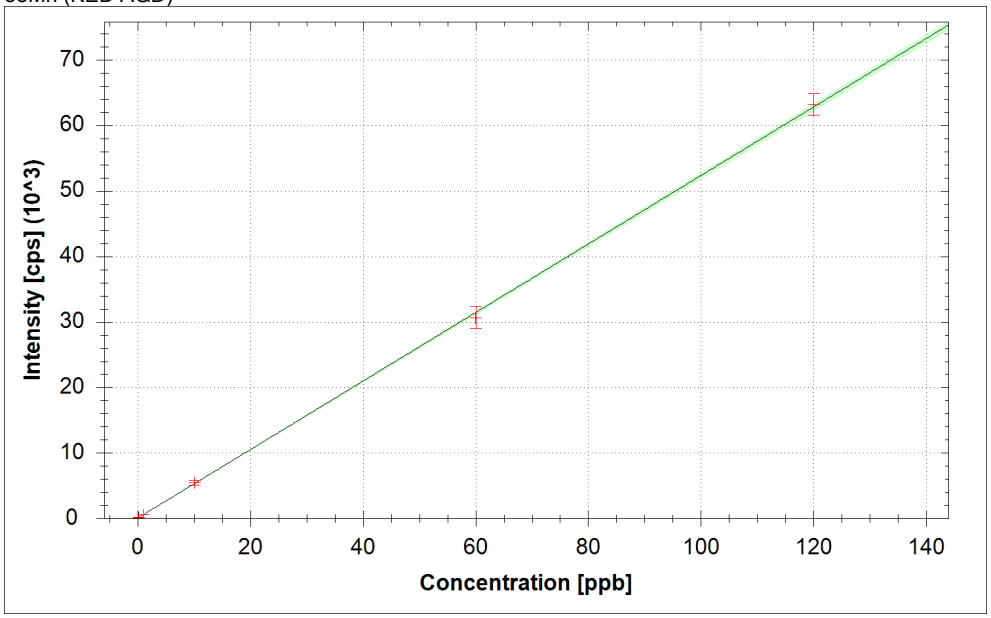
f(x) = 914.5380*x + 72.8228
R² = 0.9993
BEC = 0.080 ppb
LoD = 0.1186 ppb

52Cr (KED AGD)



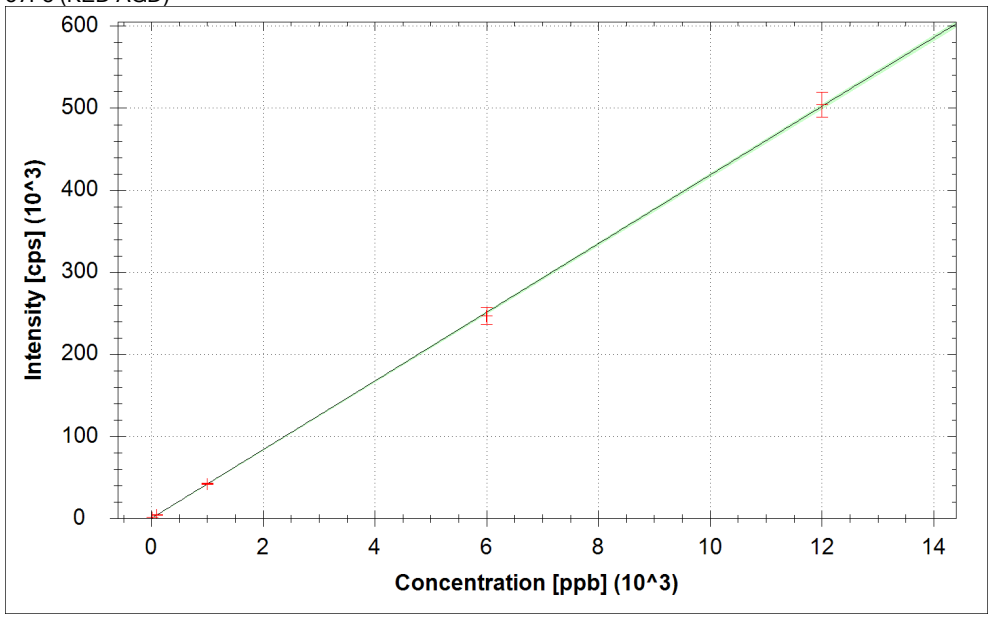
f(x) = 1344.2130*x + 220.6011
R² = 0.9995
BEC = 0.164 ppb
LoD = 0.0734 ppb

55Mn (KED AGD)



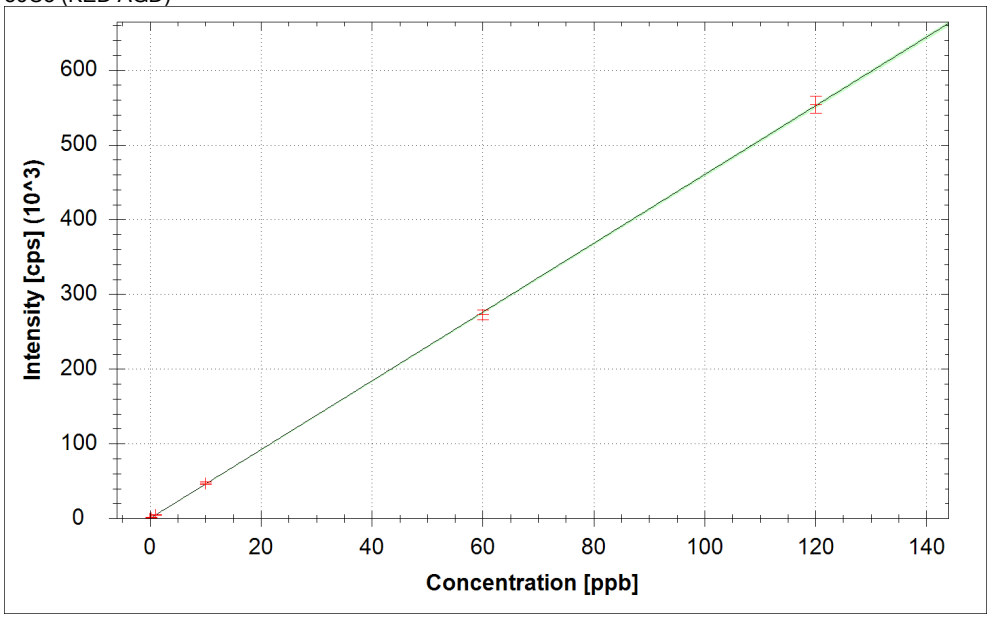
f(x) = 522.6573*x + 67.0800
R² = 0.9998
BEC = 0.128 ppb
LoD = 0.1496 ppb

57Fe (KED AGD)



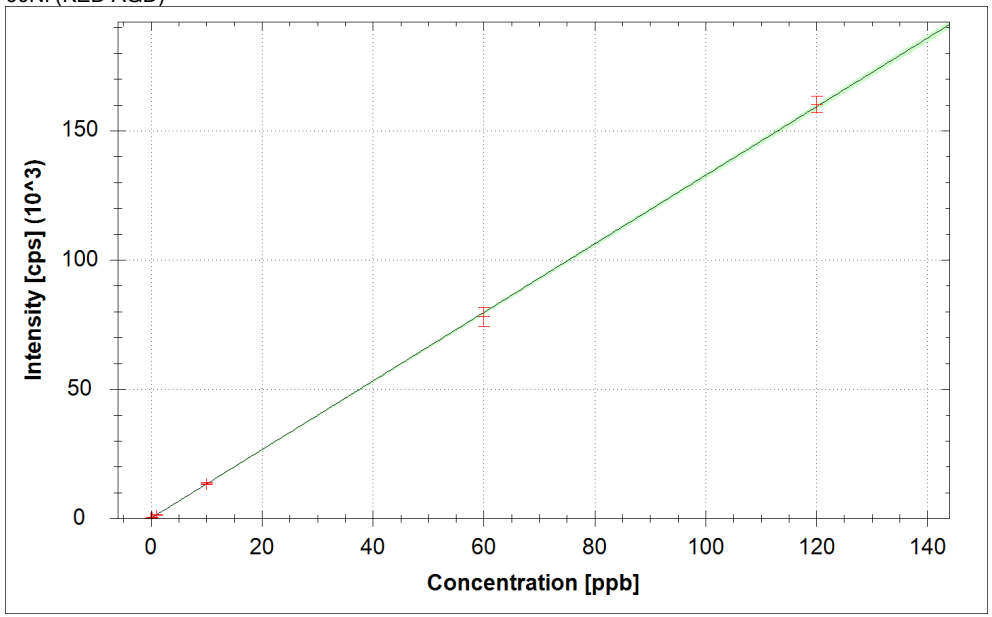
f(x) = 41.8230*x + 91.0205
R² = 0.9999
BEC = 2.176 ppb
LoD = 0.6175 ppb

59Co (KED AGD)



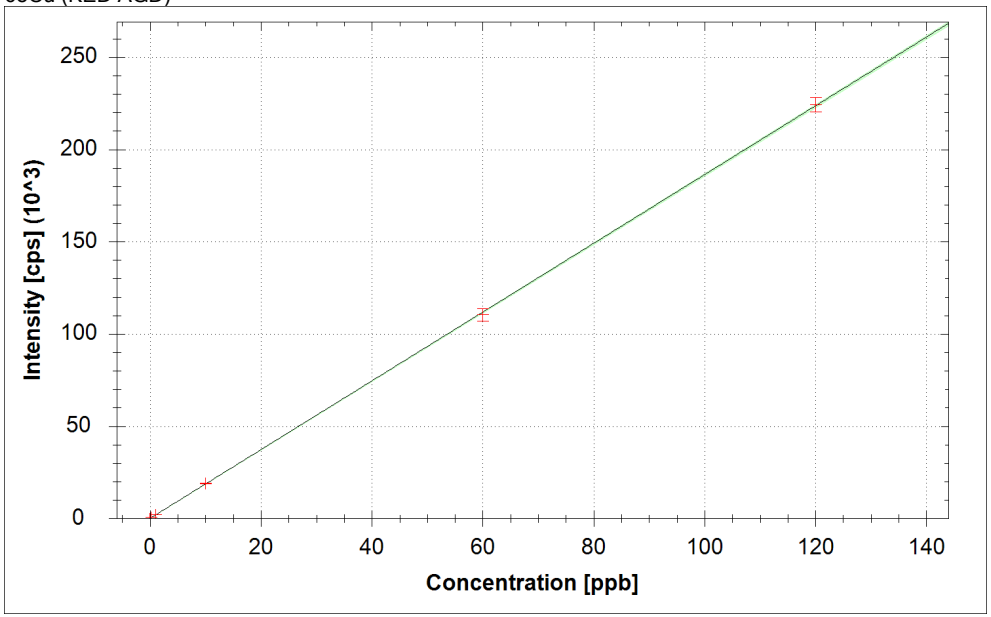
f(x) = 4599.9625*x + 35.5874
R² = 0.9999
BEC = 0.008 ppb
LoD = 0.0051 ppb

60Ni (KED AGD)



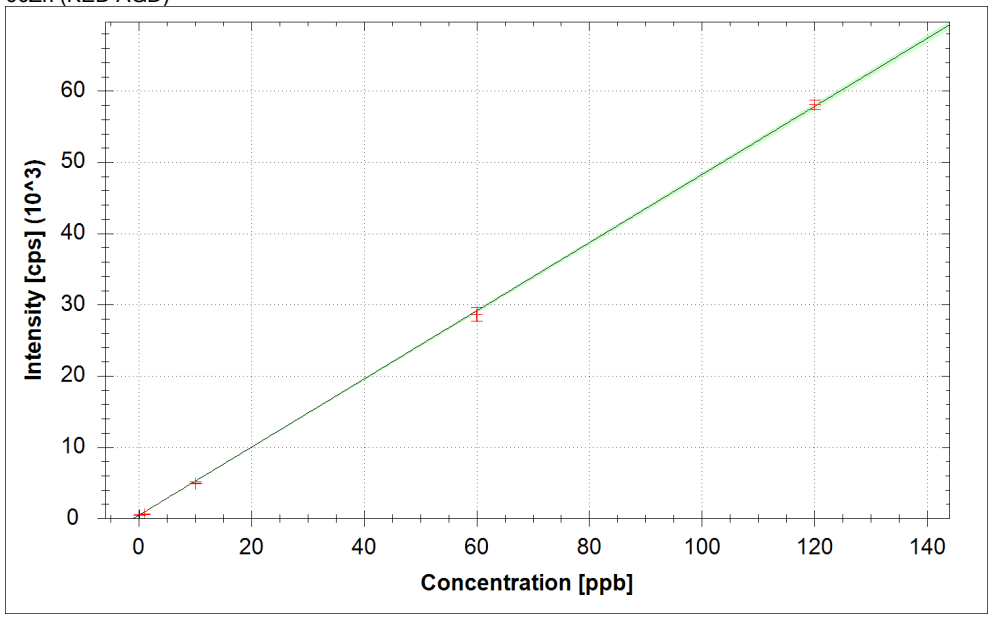
f(x) = 1325.9900*x + 95.5909
R² = 0.9998
BEC = 0.072 ppb
LoD = 0.0349 ppb

65Cu (KED AGD)



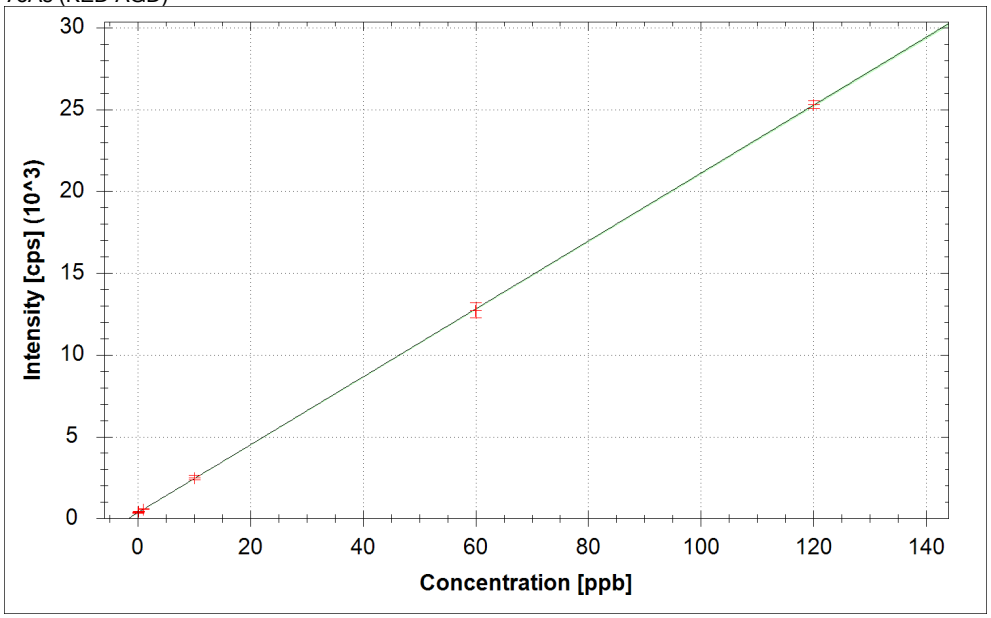
f(x) = 1862.4530*x + 64.2907
R² = 0.9999
BEC = 0.035 ppb
LoD = 0.0137 ppb

66Zn (KED AGD)



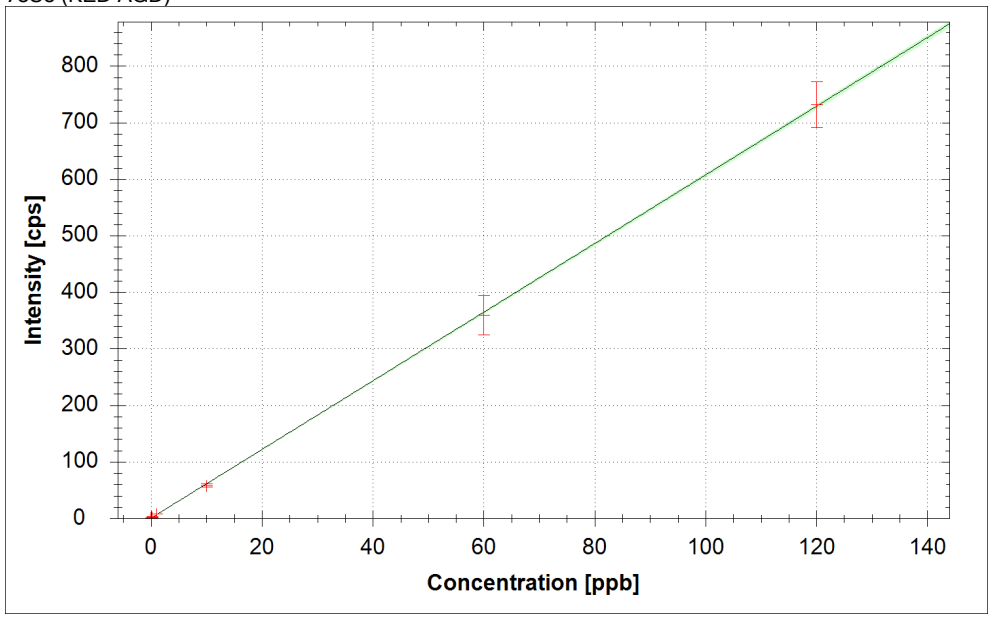
f(x) = 477.9194*x + 447.7209
R² = 0.9998
BEC = 0.937 ppb
LoD = 0.1806 ppb

75As (KED AGD)



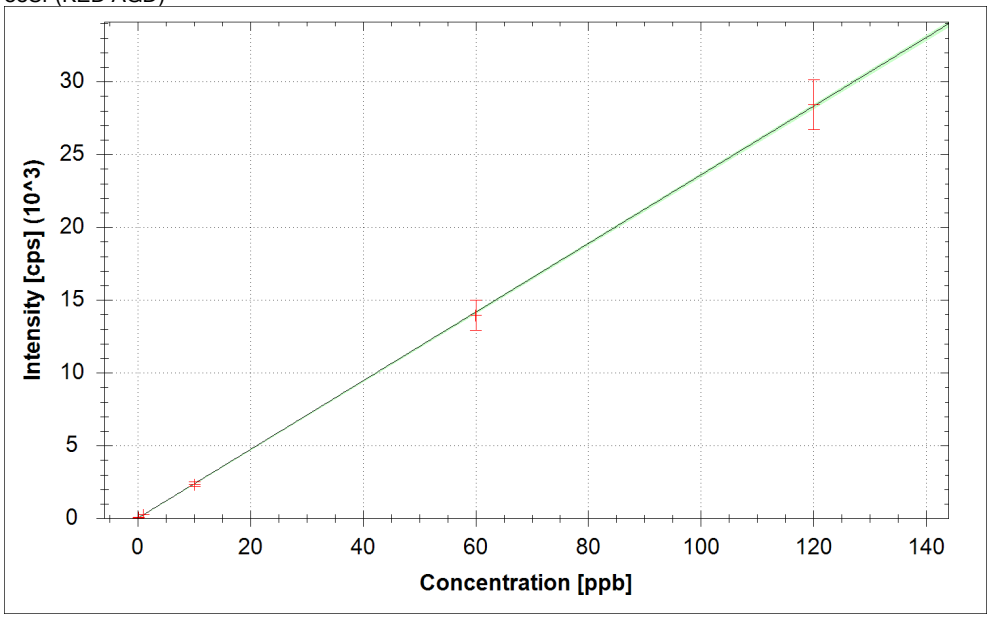
f(x) = 207.5030*x + 353.4588
R² = 1.0000
BEC = 1.703 ppb
LoD = 0.4652 ppb

78Se (KED AGD)



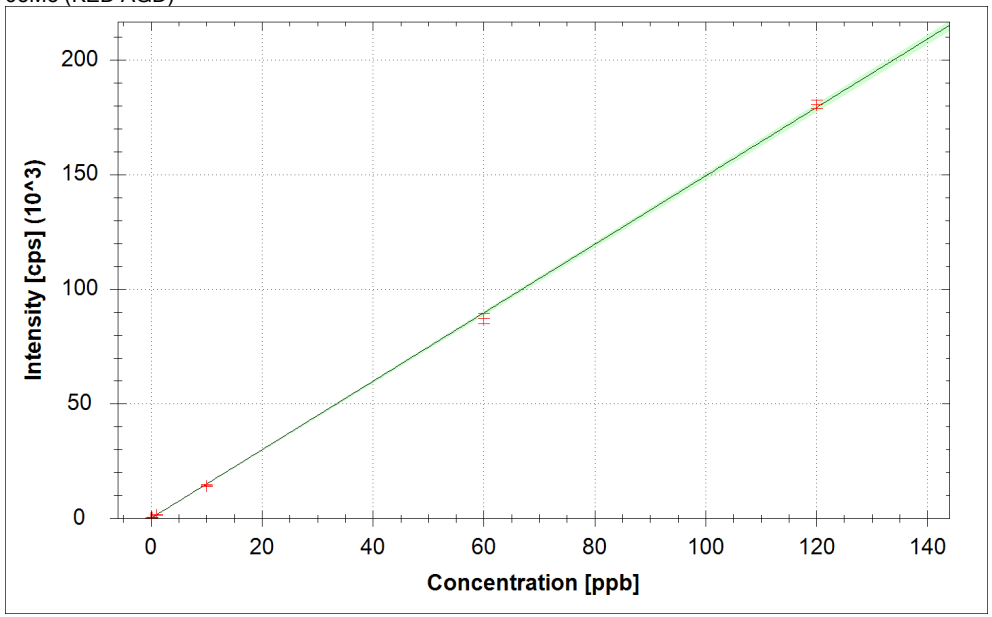
f(x) = 6.0666*x + 0.6028
R² = 0.9999
BEC = 0.099 ppb
LoD = 0.2008 ppb

88Sr (KED AGD)



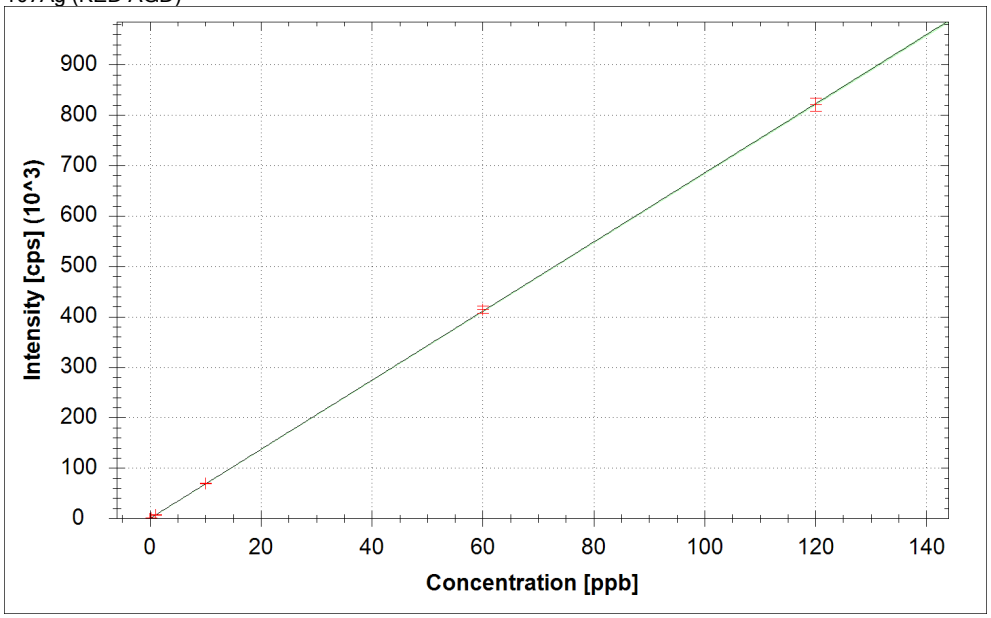
f(x) = 235.6217*x + 24.7200
R² = 0.9999
BEC = 0.105 ppb
LoD = 0.0107 ppb

95Mo (KED AGD)



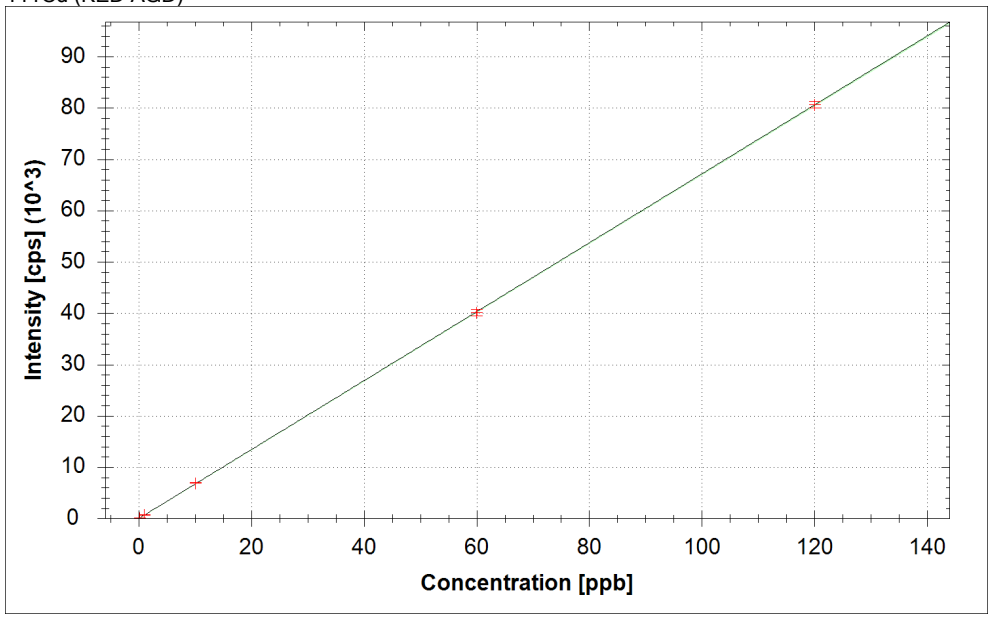
f(x) = 1492.6659*x + 84.7516
R² = 0.9997
BEC = 0.057 ppb
LoD = 0.0462 ppb

107Ag (KED AGD)



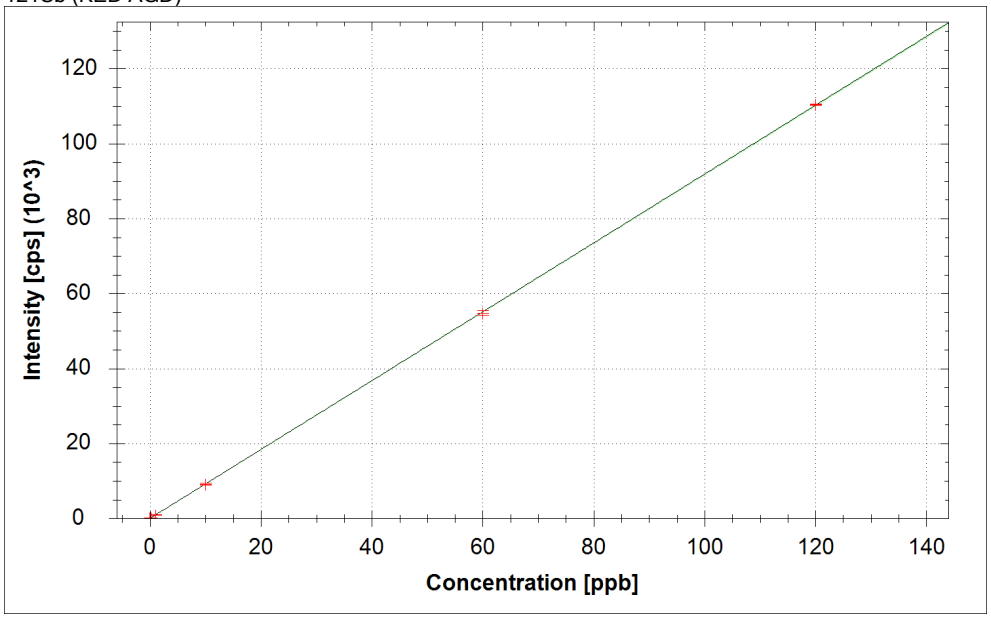
f(x) = 6851.2878*x + 18.8457
R² = 1.0000
BEC = 0.003 ppb
LoD = 0.0021 ppb

111Cd (KED AGD)



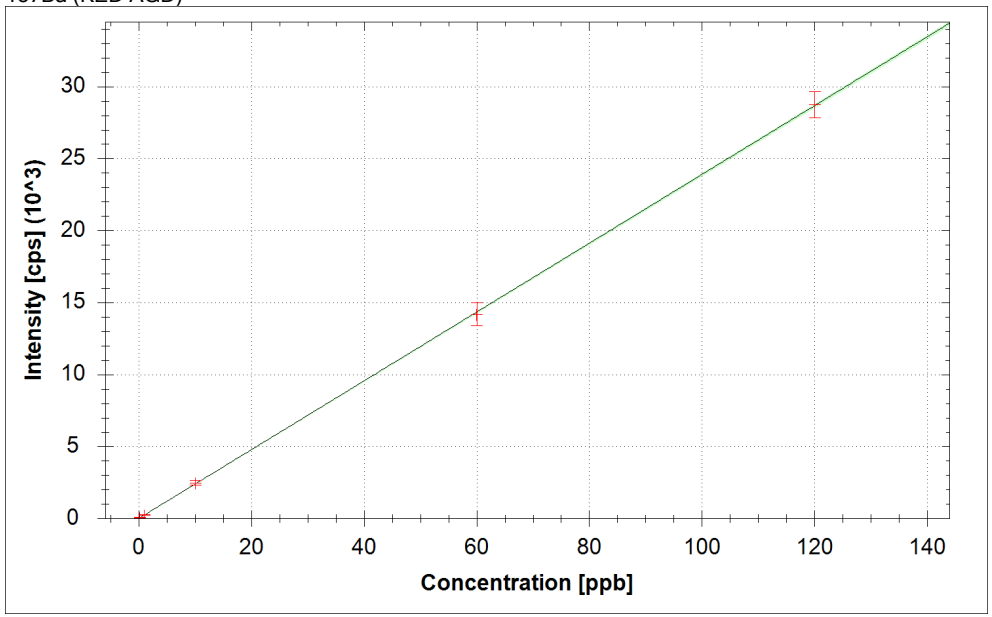
f(x) = 671.4243*x + 0.8911
R² = 1.0000
BEC = 0.001 ppb
LoD = 0.0034 ppb

121Sb (KED AGD)



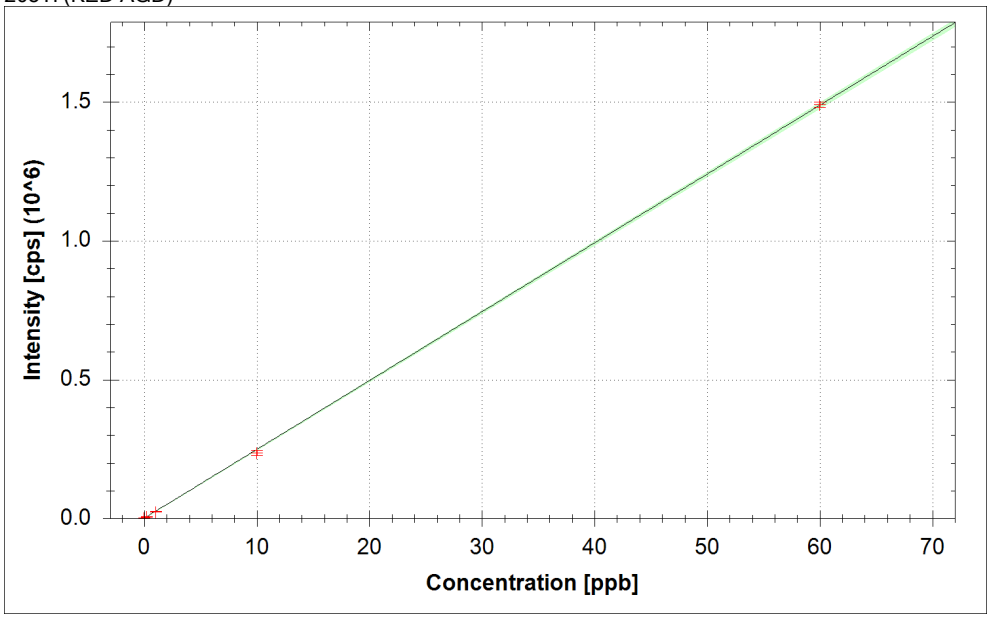
f(x) = 918.1513*x + 43.5483
R² = 1.0000
BEC = 0.047 ppb
LoD = 0.0193 ppb

137Ba (KED AGD)



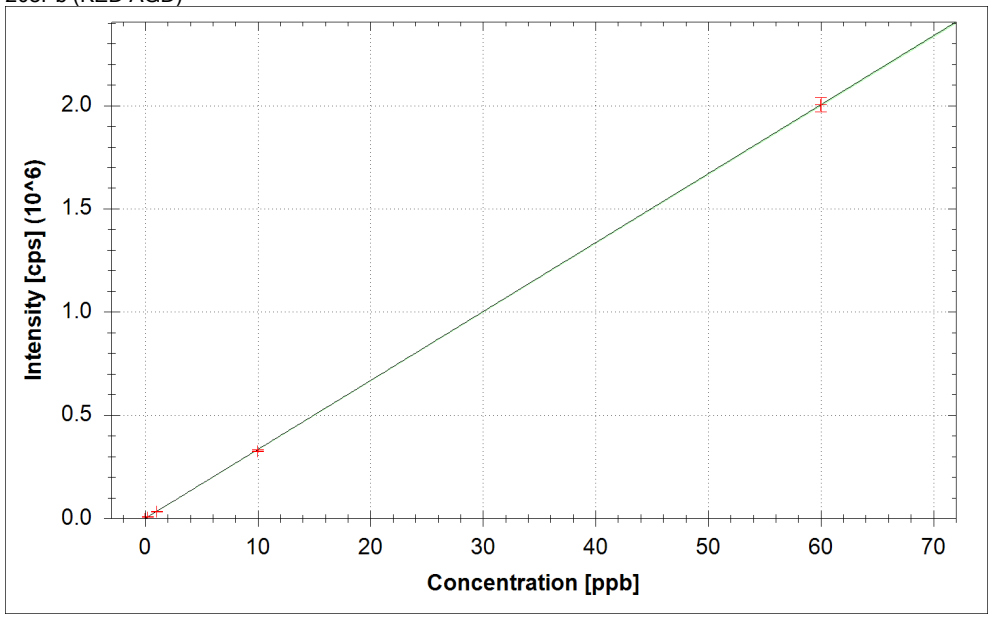
f(x) = 238.8406*x + 3.3334
R² = 0.9999
BEC = 0.014 ppb
LoD = 0.0002 ppb

205Tl (KED AGD)



f(x) = 24791.8235*x + 771.8964
R² = 0.9999
BEC = 0.031 ppb
LoD = 0.0313 ppb

208Pb (KED AGD)



f(x) = 33378.6274*x + 137.9006
R² = 1.0000
BEC = 0.004 ppb
LoD = 0.0009 ppb

Standards:

Analysis Index: 4
Analysis Name: 0.2/20 Cal
Analysis Type: STD
Analysis Started at: 12/6/2023 1:44:31 PM
Total Dilution Factor 50000
Rack 0
Vial 2

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	96.670 %	2.3 %	
6Li (KED AGD)	101.421 %	3.8 %	
9Be (STD AGD)	0.193 ppb	9.5 %	0.200 ppb
23Na (KED AGD)	23.632 ppb	14.4 %	20.000 ppb
24Mg (KED AGD)	20.839 ppb	6.0 %	20.000 ppb
27Al (KED AGD)	1.424 ppb	5.3 %	0.200 ppb
39K (KED AGD)	19.163 ppb	37.0 %	20.000 ppb
44Ca (KED AGD)	147.550 ppb	6.5 %	20.000 ppb
45Sc (STD AGD)	98.939 %	1.1 %	
51V (KED AGD)	0.225 ppb	5.1 %	0.200 ppb
52Cr (KED AGD)	0.190 ppb	27.1 %	0.200 ppb
55Mn (KED AGD)	0.188 ppb	16.3 %	0.200 ppb
57Fe (KED AGD)	22.910 ppb	6.9 %	20.000 ppb
59Co (KED AGD)	0.221 ppb	4.7 %	0.200 ppb
60Ni (KED AGD)	0.185 ppb	17.1 %	0.200 ppb
65Cu (KED AGD)	0.279 ppb	9.8 %	0.200 ppb
66Zn (KED AGD)	0.071 ppb	22.4 %	0.200 ppb
74Ge (KED AGD)	98.700 %	1.0 %	
75As (KED AGD)	0.301 ppb	44.1 %	0.200 ppb
78Se (KED AGD)	0.252 ppb	72.1 %	0.200 ppb
88Sr (KED AGD)	0.236 ppb	8.9 %	0.200 ppb
95Mo (KED AGD)	0.220 ppb	27.0 %	0.200 ppb
103Rh (KED AGD)	100.163 %	2.1 %	
107Ag (KED AGD)	0.201 ppb	9.1 %	0.200 ppb
111Cd (KED AGD)	0.207 ppb	5.4 %	0.200 ppb
115In (KED AGD)	100.189 %	2.7 %	
121Sb (KED AGD)	0.134 ppb	20.1 %	0.200 ppb
137Ba (KED AGD)	0.194 ppb	33.0 %	0.200 ppb
159Tb (KED AGD)	101.630 %	0.6 %	
175Lu (KED AGD)	99.430 %	2.7 %	
205Tl (KED AGD)	0.182 ppb	11.5 %	0.200 ppb
208Pb (KED AGD)	0.203 ppb	5.3 %	0.200 ppb
209Bi (KED AGD)	100.367 %	5.3 %	

Standards:

Analysis Index: 5
Analysis Name: 1/100 Cal
Analysis Type: STD
Analysis Started at: 12/6/2023 1:49:08 PM
Total Dilution Factor 10000
Rack 0
Vial 3

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	95.839 %	2.4 %	
6Li (KED AGD)	103.811 %	6.4 %	
9Be (STD AGD)	0.962 ppb	2.3 %	1.000 ppb
23Na (KED AGD)	99.352 ppb	17.5 %	100.000 ppb
24Mg (KED AGD)	98.006 ppb	11.5 %	100.000 ppb
27Al (KED AGD)	1.123 ppb	31.3 %	1.000 ppb
39K (KED AGD)	97.820 ppb	18.3 %	100.000 ppb
44Ca (KED AGD)	142.407 ppb	22.7 %	100.000 ppb
45Sc (STD AGD)	98.016 %	2.2 %	
51V (KED AGD)	0.995 ppb	14.1 %	1.000 ppb
52Cr (KED AGD)	1.001 ppb	7.6 %	1.000 ppb
55Mn (KED AGD)	0.986 ppb	4.4 %	1.000 ppb
57Fe (KED AGD)	100.111 ppb	7.2 %	100.000 ppb
59Co (KED AGD)	1.020 ppb	8.1 %	1.000 ppb
60Ni (KED AGD)	0.925 ppb	4.3 %	1.000 ppb
65Cu (KED AGD)	1.016 ppb	3.9 %	1.000 ppb
66Zn (KED AGD)	0.265 ppb	19.0 %	1.000 ppb
74Ge (KED AGD)	101.062 %	1.5 %	
75As (KED AGD)	1.008 ppb	10.2 %	1.000 ppb
78Se (KED AGD)	1.181 ppb	4.8 %	1.000 ppb
88Sr (KED AGD)	0.984 ppb	7.4 %	1.000 ppb
95Mo (KED AGD)	0.968 ppb	9.0 %	1.000 ppb
103Rh (KED AGD)	99.833 %	2.0 %	
107Ag (KED AGD)	0.990 ppb	3.4 %	1.000 ppb
111Cd (KED AGD)	1.003 ppb	3.7 %	1.000 ppb
115In (KED AGD)	96.934 %	2.8 %	
121Sb (KED AGD)	0.890 ppb	7.8 %	1.000 ppb
137Ba (KED AGD)	0.963 ppb	7.2 %	1.000 ppb
159Tb (KED AGD)	100.358 %	0.4 %	
175Lu (KED AGD)	98.802 %	1.0 %	
205Tl (KED AGD)	0.925 ppb	4.4 %	1.000 ppb
208Pb (KED AGD)	0.984 ppb	1.8 %	1.000 ppb
209Bi (KED AGD)	97.762 %	2.0 %	

Standards:

Analysis Index: 6
Analysis Name: 10/1000 Cal
Analysis Type: STD
Analysis Started at: 12/6/2023 1:53:46 PM
Total Dilution Factor 1000
Rack 0
Vial 4

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	95.017 %	2.4 %	
6Li (KED AGD)	102.713 %	5.9 %	
9Be (STD AGD)	10.136 ppb	1.1 %	10.000 ppb
23Na (KED AGD)	1,024.010 ppb	5.2 %	1,000.000 ppb
24Mg (KED AGD)	991.291 ppb	3.2 %	1,000.000 ppb
27Al (KED AGD)	10.506 ppb	6.3 %	10.000 ppb
39K (KED AGD)	998.964 ppb	1.3 %	1,000.000 ppb
44Ca (KED AGD)	1,057.556 ppb	2.7 %	1,000.000 ppb
45Sc (STD AGD)	98.965 %	0.0 %	
51V (KED AGD)	9.778 ppb	5.7 %	10.000 ppb
52Cr (KED AGD)	9.794 ppb	2.4 %	10.000 ppb
55Mn (KED AGD)	10.301 ppb	6.8 %	10.000 ppb
57Fe (KED AGD)	1,001.907 ppb	2.0 %	1,000.000 ppb
59Co (KED AGD)	10.222 ppb	4.0 %	10.000 ppb
60Ni (KED AGD)	10.067 ppb	2.9 %	10.000 ppb
65Cu (KED AGD)	10.132 ppb	0.9 %	10.000 ppb
66Zn (KED AGD)	9.460 ppb	3.0 %	10.000 ppb
74Ge (KED AGD)	99.509 %	0.6 %	
75As (KED AGD)	10.267 ppb	6.8 %	10.000 ppb
78Se (KED AGD)	9.483 ppb	4.7 %	10.000 ppb
88Sr (KED AGD)	9.875 ppb	5.8 %	10.000 ppb
95Mo (KED AGD)	9.525 ppb	3.1 %	10.000 ppb
103Rh (KED AGD)	98.349 %	2.2 %	
107Ag (KED AGD)	10.151 ppb	1.3 %	10.000 ppb
111Cd (KED AGD)	10.299 ppb	0.9 %	10.000 ppb
115In (KED AGD)	97.157 %	2.3 %	
121Sb (KED AGD)	9.879 ppb	2.6 %	10.000 ppb
137Ba (KED AGD)	10.310 ppb	6.8 %	10.000 ppb
159Tb (KED AGD)	101.430 %	1.5 %	
175Lu (KED AGD)	98.986 %	0.8 %	
205Tl (KED AGD)	9.444 ppb	3.9 %	10.000 ppb
208Pb (KED AGD)	9.816 ppb	1.8 %	10.000 ppb
209Bi (KED AGD)	97.783 %	2.5 %	

Standards:

Analysis Index: 7
Analysis Name: 60/6000 Cal
Analysis Type: STD
Analysis Started at: 12/6/2023 1:58:25 PM
Total Dilution Factor 166.6666666
Rack 0
Vial 5

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	94.338 %	2.7 %	
6Li (KED AGD)	103.295 %	5.7 %	
9Be (STD AGD)	60.319 ppb	1.0 %	60.000 ppb
23Na (KED AGD)	5,995.997 ppb	2.9 %	6,000.000 ppb
24Mg (KED AGD)	5,745.635 ppb	2.8 %	6,000.000 ppb
27Al (KED AGD)	58.541 ppb	4.1 %	60.000 ppb
39K (KED AGD)	5,852.595 ppb	5.0 %	6,000.000 ppb
44Ca (KED AGD)	5,910.685 ppb	6.4 %	6,000.000 ppb
45Sc (STD AGD)	105.649 %	0.1 %	
51V (KED AGD)	57.340 ppb	4.3 %	60.000 ppb
52Cr (KED AGD)	57.774 ppb	3.5 %	60.000 ppb
55Mn (KED AGD)	58.492 ppb	5.4 %	60.000 ppb
57Fe (KED AGD)	5,896.170 ppb	4.2 %	6,000.000 ppb
59Co (KED AGD)	59.217 ppb	2.5 %	60.000 ppb
60Ni (KED AGD)	58.714 ppb	4.8 %	60.000 ppb
65Cu (KED AGD)	59.249 ppb	3.0 %	60.000 ppb
66Zn (KED AGD)	58.958 ppb	3.5 %	60.000 ppb
74Ge (KED AGD)	101.367 %	2.0 %	
75As (KED AGD)	59.544 ppb	3.8 %	60.000 ppb
78Se (KED AGD)	59.107 ppb	9.8 %	60.000 ppb
88Sr (KED AGD)	59.031 ppb	7.4 %	60.000 ppb
95Mo (KED AGD)	58.382 ppb	2.6 %	60.000 ppb
103Rh (KED AGD)	97.527 %	3.6 %	
107Ag (KED AGD)	60.417 ppb	1.8 %	60.000 ppb
111Cd (KED AGD)	59.740 ppb	1.7 %	60.000 ppb
115In (KED AGD)	98.884 %	1.8 %	
121Sb (KED AGD)	59.629 ppb	1.0 %	60.000 ppb
137Ba (KED AGD)	59.315 ppb	5.5 %	60.000 ppb
159Tb (KED AGD)	100.817 %	2.4 %	
175Lu (KED AGD)	98.296 %	1.6 %	
205Tl (KED AGD)	60.094 ppb	0.6 %	60.000 ppb
208Pb (KED AGD)	60.031 ppb	1.7 %	60.000 ppb
209Bi (KED AGD)	95.147 %	0.4 %	

Standards:

Analysis Index: 8
Analysis Name: 120/12000 Cal
Analysis Type: STD
Analysis Started at: 12/6/2023 2:03:04 PM
Total Dilution Factor 83.33333333
Rack 0
Vial 6

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (STD AGD)	94.858 %	3.3 %	
6Li (KED AGD)	95.543 %	6.6 %	
9Be (STD AGD)	119.830 ppb	0.4 %	120.000 ppb
23Na (KED AGD)	14,828.057 ppb	6.0 %	12,000.000 ppb
24Mg (KED AGD)	12,127.924 ppb	4.4 %	12,000.000 ppb
27Al (KED AGD)	120.684 ppb	5.7 %	120.000 ppb
39K (KED AGD)	12,073.808 ppb	2.3 %	12,000.000 ppb
44Ca (KED AGD)	12,039.295 ppb	3.1 %	12,000.000 ppb
45Sc (STD AGD)	112.418 %	1.4 %	
51V (KED AGD)	121.348 ppb	4.1 %	120.000 ppb
52Cr (KED AGD)	121.130 ppb	2.7 %	120.000 ppb
55Mn (KED AGD)	120.729 ppb	2.6 %	120.000 ppb
57Fe (KED AGD)	12,051.750 ppb	3.0 %	12,000.000 ppb
59Co (KED AGD)	120.373 ppb	2.1 %	120.000 ppb
60Ni (KED AGD)	120.638 ppb	2.0 %	120.000 ppb
65Cu (KED AGD)	120.364 ppb	1.8 %	120.000 ppb
66Zn (KED AGD)	120.572 ppb	1.2 %	120.000 ppb
74Ge (KED AGD)	98.560 %	4.3 %	
75As (KED AGD)	120.206 ppb	1.0 %	120.000 ppb
78Se (KED AGD)	120.488 ppb	5.6 %	120.000 ppb
88Sr (KED AGD)	120.495 ppb	6.0 %	120.000 ppb
95Mo (KED AGD)	120.849 ppb	1.0 %	120.000 ppb
103Rh (KED AGD)	96.403 %	1.9 %	
107Ag (KED AGD)	119.779 ppb	1.6 %	120.000 ppb
111Cd (KED AGD)	120.105 ppb	0.8 %	120.000 ppb
115In (KED AGD)	99.355 %	3.8 %	
121Sb (KED AGD)	120.197 ppb	0.2 %	120.000 ppb
137Ba (KED AGD)	120.317 ppb	3.1 %	120.000 ppb
159Tb (KED AGD)	99.972 %	2.2 %	
175Lu (KED AGD)	99.822 %	2.4 %	
205Tl (KED AGD)	142.616 ppb	4.7 %	120.000 ppb
208Pb (KED AGD)	131.907 ppb	3.7 %	120.000 ppb
209Bi (KED AGD)	94.081 %	5.7 %	

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	1	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Rinse	Rack	0		
Analysis started at:	12/6/2023 1:30:36 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.441 %	106.072 %	-0.003 ppb	-9.493 ppb	2.475 ppb	0.831 ppb	-2.020 ppb	1.362 ppb	108.719 %
Concentration per Run 1	106.660 %	98.062 %	-0.005 ppb	-6.077 ppb	2.497 ppb	0.898 ppb	2.760 ppb	-1.907 ppb	109.781 %
Concentration per Run 2	105.149 %	111.434 %	-0.004 ppb	-10.620 ppb	1.964 ppb	0.692 ppb	-6.289 ppb	4.009 ppb	109.804 %
Concentration per Run 3	101.513 %	108.721 %	0.000 ppb	-11.782 ppb	2.962 ppb	0.902 ppb	-2.531 ppb	1.984 ppb	106.572 %
Concentration RSD	2.5 %	6.7 %	90.0 %	31.8 %	20.2 %	14.4 %	225.0 %	220.7 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.012 ppb	0.026 ppb	-0.004 ppb	9.343 ppb	0.010 ppb	0.215 ppb	0.085 ppb	2.289 ppb	101.370 %
Concentration per Run 1	-0.043 ppb	0.035 ppb	0.011 ppb	10.604 ppb	0.009 ppb	0.201 ppb	0.068 ppb	2.316 ppb	102.021 %
Concentration per Run 2	0.000 ppb	0.030 ppb	-0.027 ppb	11.246 ppb	0.014 ppb	0.258 ppb	0.112 ppb	2.362 ppb	95.865 %
Concentration per Run 3	0.009 ppb	0.012 ppb	0.003 ppb	6.178 ppb	0.006 ppb	0.187 ppb	0.076 ppb	2.191 ppb	106.224 %
Concentration RSD	240.1 %	47.5 %	454.8 %	29.5 %	42.5 %	17.4 %	27.3 %	3.9 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.034 ppb	0.128 ppb	0.005 ppb	0.084 ppb	99.975 %	0.005 ppb	0.004 ppb	104.852 %	0.022 ppb
Concentration per Run 1	0.089 ppb	0.100 ppb	0.003 ppb	0.081 ppb	99.946 %	0.005 ppb	0.008 ppb	110.917 %	0.021 ppb
Concentration per Run 2	0.137 ppb	0.087 ppb	0.009 ppb	0.110 ppb	100.501 %	0.005 ppb	0.003 ppb	100.785 %	0.043 ppb
Concentration per Run 3	-0.123 ppb	0.198 ppb	0.001 ppb	0.062 ppb	99.479 %	0.005 ppb	0.001 ppb	102.854 %	0.001 ppb
Concentration RSD	405.5 %	47.2 %	93.2 %	28.4 %	0.5 %	4.6 %	101.4 %	5.1 %	98.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.022 ppb	102.887 %	101.554 %	0.063 ppb	0.018 ppb	149.327 %
Concentration per Run 1	-0.001 ppb	103.984 %	105.203 %	0.050 ppb	0.011 ppb	208.658 %
Concentration per Run 2	0.027 ppb	102.376 %	101.052 %	0.077 ppb	0.020 ppb	127.592 %
Concentration per Run 3	0.040 ppb	102.302 %	98.406 %	0.062 ppb	0.022 ppb	111.731 %
Concentration RSD	95.1 %	0.9 %	3.4 %	21.4 %	32.6 %	34.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	2	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CAL LOT #M22-1040	Rack	0		
Analysis started at:	12/6/2023 1:35:12 PM	Vial	1		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.027 %	99.289 %	0.004 ppb	0.470 ppb	2.453 ppb	0.991 ppb	-2.522 ppb	3.635 ppb	101.698 %
Concentration per Run 1	104.171 %	102.907 %	0.001 ppb	-3.515 ppb	2.556 ppb	0.809 ppb	4.702 ppb	8.217 ppb	104.007 %
Concentration per Run 2	101.735 %	96.899 %	0.010 ppb	2.487 ppb	2.990 ppb	1.101 ppb	-4.028 ppb	4.275 ppb	100.232 %
Concentration per Run 3	100.174 %	98.062 %	0.002 ppb	2.438 ppb	1.814 ppb	1.064 ppb	-8.239 ppb	-1.588 ppb	100.856 %
Concentration RSD	2.0 %	3.2 %	116.4 %	734.3 %	24.2 %	16.0 %	261.8 %	135.7 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.021 ppb	0.029 ppb	0.018 ppb	10.198 ppb	0.006 ppb	0.183 ppb	0.095 ppb	2.063 ppb	98.507 %
Concentration per Run 1	0.002 ppb	0.062 ppb	0.001 ppb	9.016 ppb	0.014 ppb	0.200 ppb	0.087 ppb	2.003 ppb	96.729 %
Concentration per Run 2	0.040 ppb	0.034 ppb	0.041 ppb	10.025 ppb	0.004 ppb	0.189 ppb	0.097 ppb	2.135 ppb	98.350 %
Concentration per Run 3	0.023 ppb	-0.007 ppb	0.012 ppb	11.554 ppb	0.001 ppb	0.159 ppb	0.101 ppb	2.049 ppb	100.441 %
Concentration RSD	89.5 %	118.7 %	113.0 %	12.5 %	108.5 %	11.5 %	8.0 %	3.2 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.066 ppb	-0.057 ppb	-0.004 ppb	0.035 ppb	99.817 %	0.003 ppb	0.007 ppb	97.785 %	0.003 ppb
Concentration per Run 1	0.048 ppb	-0.081 ppb	0.001 ppb	-0.002 ppb	97.210 %	0.003 ppb	0.007 ppb	96.310 %	-0.001 ppb
Concentration per Run 2	0.203 ppb	-0.067 ppb	-0.003 ppb	0.033 ppb	99.774 %	0.003 ppb	0.003 ppb	98.741 %	0.001 ppb
Concentration per Run 3	-0.053 ppb	-0.023 ppb	-0.010 ppb	0.075 ppb	102.466 %	0.003 ppb	0.013 ppb	98.303 %	0.010 ppb
Concentration RSD	195.3 %	52.3 %	143.5 %	107.8 %	2.6 %	14.1 %	67.4 %	1.3 %	176.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.038 ppb	100.462 %	97.956 %	0.021 ppb	0.024 ppb	101.574 %
Concentration per Run 1	0.014 ppb	101.192 %	100.122 %	0.005 ppb	0.025 ppb	105.201 %
Concentration per Run 2	0.056 ppb	100.785 %	98.840 %	0.022 ppb	0.026 ppb	100.846 %
Concentration per Run 3	0.043 ppb	99.410 %	94.906 %	0.036 ppb	0.023 ppb	98.677 %
Concentration RSD	56.6 %	0.9 %	2.8 %	74.4 %	6.9 %	3.3 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	3	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	Blank NTB ICPMSQ	Rack	4		
Analysis started at:	12/6/2023 1:39:48 PM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	100.000 %	100.000 %	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.0 %	0.2 %	0.1 %	0.6 %	0.2 %	0.2 %	0.2 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.5 %	0.1 %	0.4 %	0.1 %	0.2 %	0.2 %	0.1 %	0.1 %	0.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration per Run	0.000 ppb	0.000 ppb	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb	0.000 ppb	100.000 %	0.000 ppb
Concentration RSD	0.1 %	0.7 %	0.0 %	0.3 %	0.0 %	0.3 %	0.9 %	0.0 %	0.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration per Run	0.000 ppb	100.000 %	100.000 %	0.000 ppb	0.000 ppb	100.000 %
Concentration RSD	0.0 %	0.0 %	0.0 %	0.3 %	0.1 %	0.0 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	4	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	0.2/20 Cal	Rack	0		
Analysis started at:	12/6/2023 1:44:31 PM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.670 %	101.421 %	0.193 ppb	23.632 ppb	20.839 ppb	1.424 ppb	19.163 ppb	147.550 ppb	98.939 %
Concentration per Run 1	98.970 %	105.814 %	0.174 ppb	19.840 ppb	22.225 ppb	1.392 ppb	14.595 ppb	156.750 ppb	100.115 %
Concentration per Run 2	96.558 %	98.450 %	0.192 ppb	24.667 ppb	20.491 ppb	1.370 ppb	27.336 ppb	137.659 ppb	98.727 %
Concentration per Run 3	94.481 %	100.000 %	0.211 ppb	26.388 ppb	19.802 ppb	1.510 ppb	15.558 ppb	148.242 ppb	97.976 %
Concentration RSD	2.3 %	3.8 %	9.5 %	14.4 %	6.0 %	5.3 %	37.0 %	6.5 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.225 ppb	0.190 ppb	0.188 ppb	22.910 ppb	0.221 ppb	0.185 ppb	0.279 ppb	0.071 ppb	98.700 %
Concentration per Run 1	0.216 ppb	0.249 ppb	0.189 ppb	21.826 ppb	0.233 ppb	0.164 ppb	0.308 ppb	0.083 ppb	98.442 %
Concentration per Run 2	0.221 ppb	0.155 ppb	0.218 ppb	22.184 ppb	0.212 ppb	0.221 ppb	0.274 ppb	0.077 ppb	99.806 %
Concentration per Run 3	0.238 ppb	0.166 ppb	0.157 ppb	24.719 ppb	0.219 ppb	0.168 ppb	0.254 ppb	0.053 ppb	97.852 %
Concentration RSD	5.1 %	27.1 %	16.3 %	6.9 %	4.7 %	17.1 %	9.8 %	22.4 %	1.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.301 ppb	0.252 ppb	0.236 ppb	0.220 ppb	100.163 %	0.201 ppb	0.207 ppb	100.189 %	0.134 ppb
Concentration per Run 1	0.399 ppb	0.044 ppb	0.212 ppb	0.182 ppb	101.961 %	0.200 ppb	0.200 ppb	103.177 %	0.109 ppb
Concentration per Run 2	0.354 ppb	0.377 ppb	0.248 ppb	0.288 ppb	97.896 %	0.220 ppb	0.201 ppb	99.587 %	0.130 ppb
Concentration per Run 3	0.150 ppb	0.334 ppb	0.249 ppb	0.189 ppb	100.633 %	0.183 ppb	0.220 ppb	97.802 %	0.162 ppb
Concentration RSD	44.1 %	72.1 %	8.9 %	27.0 %	2.1 %	9.1 %	5.4 %	2.7 %	20.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.194 ppb	101.630 %	99.430 %	0.182 ppb	0.203 ppb	100.367 %
Concentration per Run 1	0.176 ppb	102.282 %	102.003 %	0.158 ppb	0.194 ppb	106.289 %
Concentration per Run 2	0.264 ppb	101.067 %	99.724 %	0.193 ppb	0.201 ppb	98.727 %
Concentration per Run 3	0.140 ppb	101.542 %	96.564 %	0.196 ppb	0.215 ppb	96.085 %
Concentration RSD	33.0 %	0.6 %	2.7 %	11.5 %	5.3 %	5.3 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	5	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	1/100 Cal	Rack	0		
Analysis started at:	12/6/2023 1:49:08 PM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.839 %	103.811 %	0.962 ppb	99.352 ppb	98.006 ppb	1.123 ppb	97.820 ppb	142.407 ppb	98.016 %
Concentration per Run 1	98.313 %	97.093 %	0.949 ppb	117.928 ppb	110.875 ppb	1.505 ppb	118.398 ppb	152.775 ppb	99.693 %
Concentration per Run 2	95.399 %	110.271 %	0.950 ppb	83.565 ppb	89.964 ppb	0.815 ppb	85.580 ppb	168.241 ppb	98.826 %
Concentration per Run 3	93.807 %	104.070 %	0.988 ppb	96.563 ppb	93.179 ppb	1.050 ppb	89.484 ppb	106.207 ppb	95.529 %
Concentration RSD	2.4 %	6.4 %	2.3 %	17.5 %	11.5 %	31.3 %	18.3 %	22.7 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.995 ppb	1.001 ppb	0.986 ppb	100.111 ppb	1.020 ppb	0.925 ppb	1.016 ppb	0.265 ppb	101.062 %
Concentration per Run 1	1.156 ppb	1.081 ppb	0.958 ppb	108.106 ppb	1.109 ppb	0.884 ppb	1.029 ppb	0.323 ppb	99.289 %
Concentration per Run 2	0.896 ppb	0.930 ppb	1.036 ppb	94.108 ppb	1.004 ppb	0.963 ppb	0.972 ppb	0.240 ppb	101.667 %
Concentration per Run 3	0.934 ppb	0.991 ppb	0.964 ppb	98.118 ppb	0.946 ppb	0.928 ppb	1.048 ppb	0.232 ppb	102.229 %
Concentration RSD	14.1 %	7.6 %	4.4 %	7.2 %	8.1 %	4.3 %	3.9 %	19.0 %	1.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.008 ppb	1.181 ppb	0.984 ppb	0.968 ppb	99.833 %	0.990 ppb	1.003 ppb	96.934 %	0.890 ppb
Concentration per Run 1	1.045 ppb	1.185 ppb	1.062 ppb	0.900 ppb	97.623 %	1.021 ppb	1.031 ppb	99.802 %	0.917 ppb
Concentration per Run 2	0.892 ppb	1.236 ppb	0.917 ppb	1.066 ppb	101.313 %	0.953 ppb	1.017 ppb	94.489 %	0.943 ppb
Concentration per Run 3	1.087 ppb	1.123 ppb	0.973 ppb	0.938 ppb	100.561 %	0.995 ppb	0.961 ppb	96.510 %	0.811 ppb
Concentration RSD	10.2 %	4.8 %	7.4 %	9.0 %	2.0 %	3.4 %	3.7 %	2.8 %	7.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.963 ppb	100.358 %	98.802 %	0.925 ppb	0.984 ppb	97.762 %
Concentration per Run 1	0.895 ppb	99.855 %	99.155 %	0.880 ppb	0.964 ppb	100.043 %
Concentration per Run 2	0.959 ppb	100.604 %	97.645 %	0.938 ppb	0.997 ppb	96.893 %
Concentration per Run 3	1.034 ppb	100.614 %	99.605 %	0.957 ppb	0.991 ppb	96.349 %
Concentration RSD	7.2 %	0.4 %	1.0 %	4.4 %	1.8 %	2.0 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	6	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	10/1000 Cal	Rack	0		
Analysis started at:	12/6/2023 1:53:46 PM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.017 %	102.713 %	10.136 ppb	1,024.010 ppb	991.291 ppb	10.506 ppb	998.964 ppb	1,057.556 ppb	98.965 %
Concentration per Run 1	97.156 %	101.938 %	10.203 ppb	1,069.366 ppb	1,017.670 ppb	11.254 ppb	1,013.929 ppb	1,086.340 ppb	98.984 %
Concentration per Run 2	95.194 %	109.109 %	10.007 ppb	964.703 ppb	956.649 ppb	10.279 ppb	989.089 ppb	1,028.752 ppb	98.940 %
Concentration per Run 3	92.700 %	97.093 %	10.199 ppb	1,037.961 ppb	999.553 ppb	9.986 ppb	993.873 ppb	1,057.575 ppb	98.971 %
Concentration RSD	2.4 %	5.9 %	1.1 %	5.2 %	3.2 %	6.3 %	1.3 %	2.7 %	0.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	9.778 ppb	9.794 ppb	10.301 ppb	1,001.907 ppb	10.222 ppb	10.067 ppb	10.132 ppb	9.460 ppb	99.509 %
Concentration per Run 1	10.420 ppb	9.996 ppb	10.788 ppb	1,022.813 ppb	10.510 ppb	10.401 ppb	10.189 ppb	9.791 ppb	99.143 %
Concentration per Run 2	9.531 ppb	9.540 ppb	9.497 ppb	999.370 ppb	9.752 ppb	9.840 ppb	10.032 ppb	9.314 ppb	99.142 %
Concentration per Run 3	9.383 ppb	9.845 ppb	10.619 ppb	983.539 ppb	10.404 ppb	9.959 ppb	10.175 ppb	9.275 ppb	100.243 %
Concentration RSD	5.7 %	2.4 %	6.8 %	2.0 %	4.0 %	2.9 %	0.9 %	3.0 %	0.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	10.267 ppb	9.483 ppb	9.875 ppb	9.525 ppb	98.349 %	10.151 ppb	10.299 ppb	97.157 %	9.879 ppb
Concentration per Run 1	11.064 ppb	9.954 ppb	10.519 ppb	9.817 ppb	95.856 %	10.233 ppb	10.331 ppb	98.329 %	10.164 ppb
Concentration per Run 2	9.968 ppb	9.065 ppb	9.701 ppb	9.525 ppb	100.067 %	9.996 ppb	10.191 ppb	98.527 %	9.680 ppb
Concentration per Run 3	9.768 ppb	9.429 ppb	9.404 ppb	9.233 ppb	99.123 %	10.223 ppb	10.373 ppb	94.614 %	9.792 ppb
Concentration RSD	6.8 %	4.7 %	5.8 %	3.1 %	2.2 %	1.3 %	0.9 %	2.3 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	10.310 ppb	101.430 %	98.986 %	9.444 ppb	9.816 ppb	97.783 %
Concentration per Run 1	11.087 ppb	99.832 %	98.383 %	9.017 ppb	9.616 ppb	100.563 %
Concentration per Run 2	9.711 ppb	101.545 %	98.746 %	9.608 ppb	9.887 ppb	96.217 %
Concentration per Run 3	10.133 ppb	102.913 %	99.828 %	9.705 ppb	9.946 ppb	96.568 %
Concentration RSD	6.8 %	1.5 %	0.8 %	3.9 %	1.8 %	2.5 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	7	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	60/6000 Cal	Rack	0		
Analysis started at:	12/6/2023 1:58:25 PM	Vial	5		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.338 %	103.295 %	60.319 ppb	5,995.997 ppb	5,745.635 ppb	58.541 ppb	5,852.595 ppb	5,910.685 ppb	105.649 %
Concentration per Run 1	96.744 %	107.171 %	59.754 ppb	6,077.131 ppb	5,831.685 ppb	59.948 ppb	6,067.901 ppb	6,303.635 ppb	105.533 %
Concentration per Run 2	94.534 %	106.202 %	60.300 ppb	5,797.963 ppb	5,558.191 ppb	55.778 ppb	5,520.360 ppb	5,553.423 ppb	105.729 %
Concentration per Run 3	91.735 %	96.512 %	60.902 ppb	6,112.897 ppb	5,847.029 ppb	59.898 ppb	5,969.525 ppb	5,874.997 ppb	105.685 %
Concentration RSD	2.7 %	5.7 %	1.0 %	2.9 %	2.8 %	4.1 %	5.0 %	6.4 %	0.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.340 ppb	57.774 ppb	58.492 ppb	5,896.170 ppb	59.217 ppb	58.714 ppb	59.249 ppb	58.958 ppb	101.367 %
Concentration per Run 1	58.369 ppb	59.395 ppb	61.271 ppb	6,071.453 ppb	60.563 ppb	61.696 ppb	61.318 ppb	61.261 ppb	99.086 %
Concentration per Run 2	54.539 ppb	55.545 ppb	55.022 ppb	5,612.518 ppb	57.634 ppb	56.063 ppb	57.993 ppb	57.384 ppb	102.977 %
Concentration per Run 3	59.113 ppb	58.381 ppb	59.183 ppb	6,004.538 ppb	59.452 ppb	58.382 ppb	58.436 ppb	58.230 ppb	102.037 %
Concentration RSD	4.3 %	3.5 %	5.4 %	4.2 %	2.5 %	4.8 %	3.0 %	3.5 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.544 ppb	59.107 ppb	59.031 ppb	58.382 ppb	97.527 %	60.417 ppb	59.740 ppb	98.884 %	59.629 ppb
Concentration per Run 1	62.055 ppb	65.747 ppb	64.098 ppb	59.687 ppb	93.844 %	61.663 ppb	60.822 ppb	100.561 %	60.288 ppb
Concentration per Run 2	57.688 ppb	55.120 ppb	56.598 ppb	56.673 ppb	97.839 %	60.013 ppb	59.565 ppb	97.030 %	59.515 ppb
Concentration per Run 3	58.888 ppb	56.453 ppb	56.397 ppb	58.785 ppb	100.898 %	59.575 ppb	58.832 ppb	99.060 %	59.084 ppb
Concentration RSD	3.8 %	9.8 %	7.4 %	2.6 %	3.6 %	1.8 %	1.7 %	1.8 %	1.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	59.315 ppb	100.817 %	98.296 %	60.094 ppb	60.031 ppb	95.147 %
Concentration per Run 1	62.853 ppb	99.046 %	96.476 %	60.538 ppb	61.205 ppb	94.833 %
Concentration per Run 2	58.713 ppb	99.805 %	99.033 %	59.935 ppb	59.399 ppb	95.015 %
Concentration per Run 3	56.378 ppb	103.599 %	99.378 %	59.809 ppb	59.488 ppb	95.592 %
Concentration RSD	5.5 %	2.4 %	1.6 %	0.6 %	1.7 %	0.4 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	8	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	120/12000 Cal	Rack	0		
Analysis started at:	12/6/2023 2:03:04 PM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.858 %	95.543 %	119.830 ppb	14,828.057 ppb	12,127.924 ppb	120.684 ppb	12,073.808 ppb	12,039.295 ppb	112.418 %
Concentration per Run 1	97.583 %	94.380 %	119.815 ppb	15,652.121 ppb	12,717.099 ppb	127.234 ppb	12,383.672 ppb	12,460.687 ppb	112.718 %
Concentration per Run 2	95.595 %	102.326 %	119.359 ppb	13,890.726 ppb	11,666.311 ppb	113.502 ppb	11,828.955 ppb	11,774.083 ppb	113.848 %
Concentration per Run 3	91.396 %	89.922 %	120.315 ppb	14,941.325 ppb	12,000.361 ppb	121.316 ppb	12,008.798 ppb	11,883.115 ppb	110.689 %
Concentration RSD	3.3 %	6.6 %	0.4 %	6.0 %	4.4 %	5.7 %	2.3 %	3.1 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	121.348 ppb	121.130 ppb	120.729 ppb	12,051.750 ppb	120.373 ppb	120.638 ppb	120.364 ppb	120.572 ppb	98.560 %
Concentration per Run 1	120.654 ppb	123.397 ppb	119.376 ppb	11,836.404 ppb	119.108 ppb	118.893 ppb	118.024 ppb	119.255 ppb	103.142 %
Concentration per Run 2	116.807 ppb	117.450 ppb	118.481 ppb	11,847.717 ppb	118.758 ppb	119.663 ppb	120.923 ppb	120.414 ppb	97.887 %
Concentration per Run 3	126.584 ppb	122.544 ppb	124.329 ppb	12,471.131 ppb	123.253 ppb	123.359 ppb	122.146 ppb	122.048 ppb	94.652 %
Concentration RSD	4.1 %	2.7 %	2.6 %	3.0 %	2.1 %	2.0 %	1.8 %	1.2 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	120.206 ppb	120.488 ppb	120.495 ppb	120.849 ppb	96.403 %	119.779 ppb	120.105 ppb	99.355 %	120.197 ppb
Concentration per Run 1	121.341 ppb	127.635 ppb	128.518 ppb	120.287 ppb	94.372 %	121.325 ppb	120.696 ppb	102.770 %	120.068 ppb
Concentration per Run 2	120.298 ppb	119.480 ppb	118.628 ppb	120.016 ppb	98.052 %	117.708 ppb	120.639 ppb	100.021 %	120.047 ppb
Concentration per Run 3	118.979 ppb	114.350 ppb	114.338 ppb	122.244 ppb	96.787 %	120.304 ppb	118.982 ppb	95.275 %	120.475 ppb
Concentration RSD	1.0 %	5.6 %	6.0 %	1.0 %	1.9 %	1.6 %	0.8 %	3.8 %	0.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	120.317 ppb	99.972 %	99.822 %	142.616 ppb	131.907 ppb	94.081 %
Concentration per Run 1	124.624 ppb	102.017 %	102.072 %	135.044 ppb	126.406 ppb	100.229 %
Concentration per Run 2	117.552 ppb	100.258 %	100.057 %	145.283 ppb	133.702 ppb	91.372 %
Concentration per Run 3	118.776 ppb	97.642 %	97.335 %	147.522 ppb	135.612 ppb	90.642 %
Concentration RSD	3.1 %	2.2 %	2.4 %	4.7 %	3.7 %	5.7 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	9	User name	ALPHALAB\Metals-Instrument	Comment	Sr Inteference Check
Analysis label:	Sr 200ppb	Rack	4		
Analysis started at:	12/6/2023 2:07:44 PM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.551 %	98.773 %	0.012 ppb	5.731 ppb	1.892 ppb	0.796 ppb	7.813 ppb	0.645 ppb	97.501 %
Concentration per Run 1	97.357 %	100.000 %	0.014 ppb	11.062 ppb	2.454 ppb	0.823 ppb	18.584 ppb	32.096 ppb	96.977 %
Concentration per Run 2	95.452 %	96.318 %	0.009 ppb	8.822 ppb	2.411 ppb	1.192 ppb	5.208 ppb	19.678 ppb	97.233 %
Concentration per Run 3	93.844 %	100.000 %	0.012 ppb	-2.693 ppb	0.810 ppb	0.372 ppb	-0.353 ppb	-49.840 ppb	98.294 %
Concentration RSD	1.8 %	2.2 %	21.7 %	128.8 %	49.5 %	51.6 %	124.6 %	6,850.2 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.043 ppb	0.026 ppb	-0.010 ppb	14.804 ppb	0.007 ppb	-0.009 ppb	0.016 ppb	-0.188 ppb	100.904 %
Concentration per Run 1	-0.058 ppb	0.028 ppb	-0.052 ppb	20.743 ppb	0.010 ppb	-0.002 ppb	0.022 ppb	-0.172 ppb	101.137 %
Concentration per Run 2	-0.006 ppb	0.020 ppb	-0.026 ppb	12.652 ppb	0.002 ppb	0.008 ppb	0.005 ppb	-0.180 ppb	101.198 %
Concentration per Run 3	-0.065 ppb	0.031 ppb	0.050 ppb	11.017 ppb	0.010 ppb	-0.032 ppb	0.023 ppb	-0.214 ppb	100.376 %
Concentration RSD	74.2 %	21.7 %	552.4 %	35.2 %	57.7 %	239.3 %	62.2 %	11.9 %	0.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.096 ppb	0.810 ppb	190.403 ppb	1.279 ppb	99.814 %	0.017 ppb	0.004 ppb	97.472 %	0.026 ppb
Concentration per Run 1	0.223 ppb	0.808 ppb	204.002 ppb	1.370 ppb	100.639 %	0.018 ppb	0.001 ppb	103.137 %	0.033 ppb
Concentration per Run 2	-0.048 ppb	0.863 ppb	188.873 ppb	1.199 ppb	99.952 %	0.020 ppb	0.005 ppb	98.017 %	0.018 ppb
Concentration per Run 3	0.114 ppb	0.758 ppb	178.335 ppb	1.266 ppb	98.850 %	0.014 ppb	0.007 ppb	91.263 %	0.028 ppb
Concentration RSD	141.4 %	6.5 %	6.8 %	6.8 %	0.9 %	17.6 %	79.4 %	6.1 %	30.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.142 ppb	100.046 %	99.676 %	0.707 ppb	0.041 ppb	99.828 %
Concentration per Run 1	0.149 ppb	102.986 %	104.255 %	0.507 ppb	0.047 ppb	106.686 %
Concentration per Run 2	0.126 ppb	100.737 %	100.173 %	0.829 ppb	0.040 ppb	97.949 %
Concentration per Run 3	0.150 ppb	96.414 %	94.600 %	0.784 ppb	0.036 ppb	94.848 %
Concentration RSD	9.2 %	3.3 %	4.9 %	24.7 %	13.4 %	6.1 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	10	User name	ALPHALAB\Metals-Instrument	Comment	ICV
Analysis label:	ICV	Rack	0		
Analysis started at:	12/6/2023 2:12:26 PM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.579 %	101.034 %	53.043 ppb	5,269.007 ppb	5,156.918 ppb	54.415 ppb	5,191.831 ppb	5,224.567 ppb	102.147 %
Concentration per Run 1	98.399 %	102.132 %	52.643 ppb	5,319.844 ppb	5,333.147 ppb	57.033 ppb	5,549.706 ppb	5,406.040 ppb	104.144 %
Concentration per Run 2	95.460 %	108.915 %	53.053 ppb	4,953.036 ppb	4,862.672 ppb	51.653 ppb	4,909.512 ppb	5,007.126 ppb	102.236 %
Concentration per Run 3	92.880 %	92.054 %	53.432 ppb	5,534.140 ppb	5,274.934 ppb	54.557 ppb	5,116.276 ppb	5,260.535 ppb	100.061 %
Recovery Percentage 1			106.085 %	105.380 %	103.138 %	108.829 %	103.837 %	104.491 %	
Concentration RSD	2.9 %	8.4 %	0.7 %	5.6 %	5.0 %	4.9 %	6.3 %	3.9 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.950 ppb	50.308 ppb	51.521 ppb	5,307.439 ppb	51.046 ppb	51.716 ppb	51.879 ppb	51.082 ppb	103.805 %
Concentration per Run 1	50.809 ppb	50.987 ppb	51.219 ppb	5,327.547 ppb	49.837 ppb	51.071 ppb	51.008 ppb	50.444 ppb	106.737 %
Concentration per Run 2	47.062 ppb	47.525 ppb	49.663 ppb	5,036.087 ppb	49.220 ppb	49.730 ppb	50.650 ppb	49.627 ppb	106.965 %
Concentration per Run 3	51.980 ppb	52.413 ppb	53.682 ppb	5,558.682 ppb	54.080 ppb	54.347 ppb	53.978 ppb	53.175 ppb	97.714 %
Recovery Percentage 1	99.901 %	100.617 %	103.042 %	106.149 %	102.092 %	103.432 %	103.757 %	102.164 %	
Concentration RSD	5.1 %	5.0 %	3.9 %	4.9 %	5.2 %	4.6 %	3.5 %	3.6 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	50.642 ppb	48.772 ppb	49.141 ppb	51.491 ppb	99.928 %	52.972 ppb	52.316 ppb	99.671 %	53.264 ppb
Concentration per Run 1	51.883 ppb	48.529 ppb	51.080 ppb	49.543 ppb	101.917 %	53.148 ppb	52.453 ppb	104.702 %	53.718 ppb
Concentration per Run 2	49.485 ppb	51.313 ppb	48.350 ppb	52.890 ppb	99.770 %	52.394 ppb	52.262 ppb	99.594 %	53.323 ppb
Concentration per Run 3	50.558 ppb	46.475 ppb	47.992 ppb	52.040 ppb	98.098 %	53.374 ppb	52.234 ppb	94.719 %	52.753 ppb
Recovery Percentage 1	101.283 %	97.545 %	98.281 %	102.982 %		105.944 %	104.633 %		106.529 %
Concentration RSD	2.4 %	5.0 %	3.4 %	3.4 %	1.9 %	1.0 %	0.2 %	5.0 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	53.362 ppb	101.458 %	99.904 %	50.100 ppb	51.201 ppb	101.342 %
Concentration per Run 1	55.372 ppb	102.846 %	103.769 %	47.186 ppb	49.231 ppb	107.222 %
Concentration per Run 2	52.905 ppb	103.110 %	101.189 %	50.437 ppb	51.289 ppb	100.379 %
Concentration per Run 3	51.809 ppb	98.417 %	94.754 %	52.678 ppb	53.084 ppb	96.424 %
Recovery Percentage 1	106.724 %			100.201 %	102.402 %	
Concentration RSD	3.4 %	2.6 %	4.6 %	5.5 %	3.8 %	5.4 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	11	User name	ALPHALAB\Metals-Instrument	Comment	ICB
Analysis label:	ICB	Rack	0		
Analysis started at:	12/6/2023 2:17:07 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.374 %	96.770 %	0.011 ppb	1.910 ppb	0.960 ppb	0.587 ppb	0.816 ppb	-0.197 ppb	96.798 %
Concentration per Run 1	95.643 %	104.651 %	0.009 ppb	3.142 ppb	1.179 ppb	0.297 ppb	10.420 ppb	3.905 ppb	95.502 %
Concentration per Run 2	95.355 %	97.287 %	0.010 ppb	-1.764 ppb	0.843 ppb	0.914 ppb	-4.046 ppb	-1.628 ppb	98.053 %
Concentration per Run 3	92.122 %	88.372 %	0.012 ppb	4.350 ppb	0.859 ppb	0.550 ppb	-3.926 ppb	-2.869 ppb	96.839 %
Recovery Percentage 1			2.134 %	1.910 %	1.372 %	5.867 %	0.816 %	-0.197 %	
Concentration RSD	2.1 %	8.4 %	13.3 %	169.6 %	19.7 %	52.9 %	1,018.9 %	1,826.3 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.050 ppb	0.020 ppb	-0.003 ppb	8.346 ppb	0.002 ppb	0.015 ppb	0.038 ppb	-0.370 ppb	97.760 %
Concentration per Run 1	-0.050 ppb	0.016 ppb	0.002 ppb	9.304 ppb	0.000 ppb	0.011 ppb	0.029 ppb	-0.352 ppb	94.711 %
Concentration per Run 2	-0.051 ppb	0.002 ppb	0.037 ppb	7.653 ppb	0.005 ppb	0.033 ppb	0.040 ppb	-0.355 ppb	101.632 %
Concentration per Run 3	-0.049 ppb	0.041 ppb	-0.047 ppb	8.081 ppb	0.000 ppb	0.002 ppb	0.044 ppb	-0.405 ppb	96.938 %
Recovery Percentage 1	-0.994 %	1.955 %	-0.270 %	16.692 %	0.323 %	0.761 %	3.755 %	-7.408 %	
Concentration RSD	1.9 %	102.8 %	1,565.5 %	10.3 %	193.1 %	104.1 %	20.8 %	8.0 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.101 ppb	0.265 ppb	-0.001 ppb	0.748 ppb	99.509 %	0.008 ppb	0.005 ppb	95.597 %	0.033 ppb
Concentration per Run 1	0.125 ppb	0.286 ppb	0.001 ppb	0.696 ppb	99.998 %	0.008 ppb	0.007 ppb	98.646 %	0.029 ppb
Concentration per Run 2	0.261 ppb	0.056 ppb	-0.011 ppb	0.705 ppb	100.595 %	0.004 ppb	0.005 ppb	98.566 %	0.017 ppb
Concentration per Run 3	-0.084 ppb	0.453 ppb	0.008 ppb	0.844 ppb	97.935 %	0.011 ppb	0.003 ppb	89.579 %	0.052 ppb
Recovery Percentage 1	20.138 %	5.303 %	-0.007 %	37.410 %		1.968 %	2.390 %		0.819 %
Concentration RSD	172.7 %	75.1 %	1,406.3 %	11.1 %	1.4 %	44.9 %	38.9 %	5.5 %	54.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.010 ppb	98.983 %	96.378 %	0.525 ppb	0.019 ppb	96.753 %
Concentration per Run 1	0.014 ppb	99.034 %	95.632 %	0.393 ppb	0.023 ppb	100.924 %
Concentration per Run 2	0.000 ppb	101.125 %	101.917 %	0.590 ppb	0.019 ppb	96.461 %
Concentration per Run 3	0.016 ppb	96.789 %	91.585 %	0.593 ppb	0.016 ppb	92.874 %
Recovery Percentage 1	2.020 %			52.521 %	1.935 %	
Concentration RSD	86.8 %	2.2 %	5.4 %	21.7 %	16.7 %	4.2 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	12	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1859957-1 6020TL	Rack	1		
Analysis started at:	12/6/2023 2:26:17 PM	Vial	42		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.383 %	99.031 %	0.000 ppb	6.482 ppb	2.374 ppb	2.816 ppb	-4.805 ppb	12.916 ppb	94.612 %
Concentration per Run 1	103.990 %	94.961 %	-0.004 ppb	16.560 ppb	3.039 ppb	2.550 ppb	6.036 ppb	10.921 ppb	94.567 %
Concentration per Run 2	99.507 %	97.674 %	0.005 ppb	3.919 ppb	2.237 ppb	3.020 ppb	-9.943 ppb	13.431 ppb	93.024 %
Concentration per Run 3	100.653 %	104.457 %	0.000 ppb	-1.032 ppb	1.845 ppb	2.880 ppb	-10.506 ppb	14.396 ppb	96.246 %
Concentration RSD	2.3 %	4.9 %	3,092.1 %	139.9 %	25.6 %	8.6 %	195.5 %	13.9 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.060 ppb	0.053 ppb	0.066 ppb	2.553 ppb	0.007 ppb	0.043 ppb	0.076 ppb	-0.197 ppb	98.941 %
Concentration per Run 1	-0.072 ppb	0.076 ppb	0.145 ppb	2.041 ppb	0.008 ppb	0.050 ppb	0.038 ppb	-0.155 ppb	99.393 %
Concentration per Run 2	-0.058 ppb	0.059 ppb	-0.026 ppb	1.800 ppb	0.005 ppb	0.028 ppb	0.101 ppb	-0.247 ppb	101.086 %
Concentration per Run 3	-0.050 ppb	0.024 ppb	0.079 ppb	3.819 ppb	0.007 ppb	0.051 ppb	0.090 ppb	-0.188 ppb	96.346 %
Concentration RSD	18.6 %	50.5 %	131.5 %	43.2 %	23.2 %	30.3 %	44.1 %	23.6 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.005 ppb	-0.016 ppb	0.017 ppb	0.163 ppb	99.206 %	0.002 ppb	0.016 ppb	97.479 %	-0.009 ppb
Concentration per Run 1	0.099 ppb	0.040 ppb	0.010 ppb	0.115 ppb	98.737 %	0.002 ppb	0.009 ppb	98.432 %	-0.009 ppb
Concentration per Run 2	-0.046 ppb	0.044 ppb	0.018 ppb	0.166 ppb	99.730 %	0.002 ppb	0.023 ppb	98.652 %	-0.020 ppb
Concentration per Run 3	-0.038 ppb	-0.130 ppb	0.023 ppb	0.207 ppb	99.149 %	0.003 ppb	0.015 ppb	95.353 %	0.003 ppb
Concentration RSD	1,576.8 %	640.0 %	38.1 %	28.3 %	0.5 %	29.9 %	45.1 %	1.9 %	127.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.043 ppb	100.134 %	98.867 %	0.127 ppb	0.012 ppb	94.725 %
Concentration per Run 1	0.085 ppb	98.682 %	99.176 %	0.081 ppb	0.014 ppb	97.948 %
Concentration per Run 2	0.014 ppb	103.210 %	99.618 %	0.144 ppb	0.010 ppb	94.112 %
Concentration per Run 3	0.029 ppb	98.509 %	97.805 %	0.157 ppb	0.013 ppb	92.115 %
Concentration RSD	88.0 %	2.7 %	1.0 %	32.1 %	15.3 %	3.1 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	13	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1859957-2d5 6020TL	Rack	1		
Analysis started at:	12/6/2023 2:35:13 PM	Vial	43		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.167 %	97.610 %	9.959 ppb	2,750.317 ppb	2,311.106 ppb	428.052 ppb	2,165.315 ppb	2,339.067 ppb	105.076 %
Concentration per Run 1	104.289 %	94.767 %	9.903 ppb	2,818.102 ppb	2,358.942 ppb	443.151 ppb	2,218.080 ppb	2,345.621 ppb	105.919 %
Concentration per Run 2	102.467 %	97.093 %	9.998 ppb	2,765.465 ppb	2,359.745 ppb	432.534 ppb	2,136.780 ppb	2,315.479 ppb	105.907 %
Concentration per Run 3	99.743 %	100.969 %	9.976 ppb	2,667.384 ppb	2,214.632 ppb	408.470 ppb	2,141.085 ppb	2,356.101 ppb	103.401 %
Concentration RSD	2.2 %	3.2 %	0.5 %	2.8 %	3.6 %	4.2 %	2.1 %	0.9 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	95.830 ppb	40.263 ppb	101.391 ppb	216.288 ppb	98.683 ppb	97.105 ppb	49.266 ppb	97.566 ppb	103.690 %
Concentration per Run 1	98.590 ppb	40.529 ppb	100.016 ppb	219.117 ppb	101.936 ppb	99.342 ppb	49.568 ppb	100.308 ppb	100.423 %
Concentration per Run 2	94.974 ppb	39.821 ppb	102.896 ppb	217.527 ppb	95.580 ppb	94.727 ppb	48.234 ppb	93.895 ppb	108.737 %
Concentration per Run 3	93.926 ppb	40.438 ppb	101.261 ppb	212.218 ppb	98.534 ppb	97.245 ppb	49.995 ppb	98.493 ppb	101.908 %
Concentration RSD	2.6 %	1.0 %	1.4 %	1.7 %	3.2 %	2.4 %	1.9 %	3.4 %	4.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	24.324 ppb	25.054 ppb	199.941 ppb	208.155 ppb	100.404 %	9.930 ppb	10.466 ppb	101.611 %	90.874 ppb
Concentration per Run 1	24.956 ppb	25.639 ppb	202.368 ppb	212.626 ppb	99.219 %	10.024 ppb	10.450 ppb	100.487 %	91.665 ppb
Concentration per Run 2	23.897 ppb	23.283 ppb	199.718 ppb	202.540 ppb	101.439 %	9.799 ppb	10.614 ppb	102.291 %	90.120 ppb
Concentration per Run 3	24.118 ppb	26.241 ppb	197.737 ppb	209.300 ppb	100.555 %	9.966 ppb	10.334 ppb	102.055 %	90.837 ppb
Concentration RSD	2.3 %	6.2 %	1.2 %	2.5 %	1.1 %	1.2 %	1.3 %	1.0 %	0.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	396.170 ppb	104.167 %	105.291 %	24.536 ppb	116.723 ppb	99.852 %
Concentration per Run 1	405.046 ppb	102.488 %	103.149 %	24.400 ppb	115.945 ppb	100.696 %
Concentration per Run 2	400.009 ppb	104.258 %	104.436 %	24.564 ppb	117.669 ppb	100.797 %
Concentration per Run 3	383.455 ppb	105.754 %	108.289 %	24.643 ppb	116.556 ppb	98.063 %
Concentration RSD	2.9 %	1.6 %	2.5 %	0.5 %	0.7 %	1.6 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	14	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1859957-3d10 6020TL	Rack	1		
Analysis started at:	12/6/2023 2:39:50 PM	Vial	45		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.696 %	103.941 %	5.061 ppb	18,851.219 ppb	5,830.017 ppb	199.645 ppb	1,329.915 ppb	12,901.171 ppb	104.061 %
Concentration per Run 1	102.557 %	113.372 %	5.051 ppb	17,576.420 ppb	5,451.555 ppb	185.215 ppb	1,321.691 ppb	12,810.743 ppb	104.285 %
Concentration per Run 2	100.587 %	99.612 %	5.007 ppb	19,547.768 ppb	6,066.757 ppb	209.837 ppb	1,326.487 ppb	12,874.042 ppb	105.081 %
Concentration per Run 3	98.942 %	98.837 %	5.125 ppb	19,429.468 ppb	5,971.739 ppb	203.884 ppb	1,341.568 ppb	13,018.726 ppb	102.817 %
Concentration RSD	1.8 %	7.9 %	1.2 %	5.9 %	5.7 %	6.4 %	0.8 %	0.8 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.563 ppb	18.986 ppb	99.168 ppb	563.206 ppb	47.258 ppb	46.212 ppb	23.889 ppb	46.557 ppb	102.878 %
Concentration per Run 1	45.826 ppb	18.360 ppb	96.930 ppb	554.412 ppb	46.887 ppb	46.693 ppb	23.347 ppb	47.359 ppb	100.038 %
Concentration per Run 2	47.663 ppb	19.404 ppb	99.709 ppb	566.158 ppb	47.381 ppb	46.355 ppb	23.505 ppb	46.233 ppb	105.713 %
Concentration per Run 3	49.201 ppb	19.194 ppb	100.865 ppb	569.047 ppb	47.507 ppb	45.589 ppb	24.817 ppb	46.079 ppb	102.882 %
Concentration RSD	3.6 %	2.9 %	2.0 %	1.4 %	0.7 %	1.2 %	3.4 %	1.5 %	2.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.460 ppb	12.245 ppb	171.484 ppb	102.038 ppb	99.127 %	4.990 ppb	5.181 ppb	100.609 %	51.256 ppb
Concentration per Run 1	12.872 ppb	12.344 ppb	178.188 ppb	103.376 ppb	97.499 %	5.134 ppb	5.273 ppb	99.352 %	52.628 ppb
Concentration per Run 2	12.222 ppb	12.580 ppb	170.344 ppb	102.316 ppb	98.823 %	4.922 ppb	5.039 ppb	102.254 %	50.654 ppb
Concentration per Run 3	12.285 ppb	11.810 ppb	165.920 ppb	100.421 ppb	101.060 %	4.916 ppb	5.232 ppb	100.220 %	50.487 ppb
Concentration RSD	2.9 %	3.2 %	3.6 %	1.5 %	1.8 %	2.5 %	2.4 %	1.5 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	246.221 ppb	103.256 %	102.851 %	12.274 ppb	54.760 ppb	95.243 %
Concentration per Run 1	255.108 ppb	99.890 %	100.820 %	12.428 ppb	55.641 ppb	94.360 %
Concentration per Run 2	242.800 ppb	106.658 %	105.776 %	12.058 ppb	53.977 ppb	95.961 %
Concentration per Run 3	240.753 ppb	103.220 %	101.957 %	12.337 ppb	54.661 ppb	95.409 %
Concentration RSD	3.2 %	3.3 %	2.5 %	1.6 %	1.5 %	0.9 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	15	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1859957-4d10 6020TL	Rack	1		
Analysis started at:	12/6/2023 2:44:28 PM	Vial	46		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.783 %	95.736 %	5.177 ppb	20,220.378 ppb	6,178.028 ppb	214.281 ppb	1,349.895 ppb	13,158.620 ppb	105.543 %
Concentration per Run 1	101.634 %	94.186 %	5.120 ppb	20,791.591 ppb	6,366.824 ppb	215.826 ppb	1,390.582 ppb	13,776.581 ppb	106.144 %
Concentration per Run 2	100.601 %	99.806 %	5.088 ppb	19,358.590 ppb	5,953.205 ppb	216.887 ppb	1,338.535 ppb	12,581.682 ppb	105.550 %
Concentration per Run 3	97.115 %	93.217 %	5.323 ppb	20,510.954 ppb	6,214.054 ppb	210.132 ppb	1,320.569 ppb	13,117.596 ppb	104.935 %
Concentration RSD	2.4 %	3.7 %	2.5 %	3.8 %	3.4 %	1.7 %	2.7 %	4.5 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.784 ppb	20.033 ppb	102.905 ppb	589.082 ppb	51.028 ppb	49.233 ppb	25.023 ppb	49.272 ppb	97.135 %
Concentration per Run 1	51.946 ppb	20.917 ppb	103.590 ppb	611.177 ppb	53.357 ppb	51.611 ppb	26.448 ppb	52.220 ppb	90.554 %
Concentration per Run 2	47.062 ppb	19.482 ppb	100.707 ppb	592.819 ppb	50.931 ppb	48.839 ppb	24.473 ppb	48.534 ppb	97.525 %
Concentration per Run 3	47.344 ppb	19.700 ppb	104.418 ppb	563.252 ppb	48.796 ppb	47.251 ppb	24.147 ppb	47.064 ppb	103.324 %
Concentration RSD	5.6 %	3.9 %	1.9 %	4.1 %	4.5 %	4.5 %	5.0 %	5.4 %	6.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.656 ppb	12.016 ppb	175.246 ppb	104.993 ppb	95.845 %	5.093 ppb	5.238 ppb	99.961 %	49.386 ppb
Concentration per Run 1	14.966 ppb	11.942 ppb	183.522 ppb	105.052 ppb	91.166 %	5.334 ppb	5.639 ppb	92.910 %	52.715 ppb
Concentration per Run 2	13.047 ppb	11.928 ppb	174.053 ppb	103.460 ppb	97.859 %	4.959 ppb	5.131 ppb	101.120 %	48.738 ppb
Concentration per Run 3	12.956 ppb	12.178 ppb	168.162 ppb	106.467 ppb	98.511 %	4.987 ppb	4.944 ppb	105.854 %	46.704 ppb
Concentration RSD	8.3 %	1.2 %	4.4 %	1.4 %	4.2 %	4.1 %	6.9 %	6.6 %	6.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	246.993 ppb	100.219 %	99.096 %	12.336 ppb	55.071 ppb	94.383 %
Concentration per Run 1	258.615 ppb	96.134 %	95.167 %	12.182 ppb	55.324 ppb	94.412 %
Concentration per Run 2	244.021 ppb	103.044 %	101.012 %	12.386 ppb	54.632 ppb	95.178 %
Concentration per Run 3	238.343 ppb	101.478 %	101.110 %	12.440 ppb	55.257 ppb	93.558 %
Concentration RSD	4.2 %	3.6 %	3.4 %	1.1 %	0.7 %	0.9 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	16	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1859957-5d10 6020TL	Rack	1		
Analysis started at:	12/6/2023 2:49:07 PM	Vial	47		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.976 %	101.163 %	49.505 ppb	23,921.130 ppb	9,924.083 ppb	52.880 ppb	5,246.357 ppb	16,822.585 ppb	106.018 %
Concentration per Run 1	100.770 %	102.326 %	49.322 ppb	23,583.053 ppb	9,862.973 ppb	52.726 ppb	5,326.246 ppb	17,234.548 ppb	107.292 %
Concentration per Run 2	97.809 %	101.550 %	49.497 ppb	23,252.769 ppb	9,398.595 ppb	52.508 ppb	5,112.574 ppb	16,703.932 ppb	105.647 %
Concentration per Run 3	95.348 %	99.612 %	49.696 ppb	24,927.569 ppb	10,510.683 ppb	53.407 ppb	5,300.250 ppb	16,529.276 ppb	105.114 %
Concentration RSD	2.8 %	1.4 %	0.4 %	3.7 %	5.6 %	0.9 %	2.2 %	2.2 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.982 ppb	47.940 ppb	100.090 ppb	5,434.577 ppb	47.877 ppb	48.522 ppb	48.327 ppb	50.460 ppb	100.729 %
Concentration per Run 1	48.652 ppb	48.391 ppb	100.858 ppb	5,579.231 ppb	49.348 ppb	51.669 ppb	51.333 ppb	52.615 ppb	92.593 %
Concentration per Run 2	45.960 ppb	46.916 ppb	98.204 ppb	5,334.278 ppb	47.428 ppb	47.156 ppb	46.508 ppb	48.888 ppb	101.726 %
Concentration per Run 3	46.334 ppb	48.512 ppb	101.206 ppb	5,390.223 ppb	46.854 ppb	46.742 ppb	47.141 ppb	49.877 ppb	107.866 %
Concentration RSD	3.1 %	1.9 %	1.6 %	2.4 %	2.7 %	5.6 %	5.4 %	3.8 %	7.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	49.962 ppb	49.054 ppb	122.565 ppb	50.929 ppb	97.598 %	3.625 ppb	48.469 ppb	101.806 %	50.262 ppb
Concentration per Run 1	52.656 ppb	52.748 ppb	125.393 ppb	51.194 ppb	92.835 %	3.772 ppb	51.445 ppb	93.273 %	53.857 ppb
Concentration per Run 2	48.481 ppb	47.686 ppb	117.953 ppb	50.471 ppb	97.662 %	3.644 ppb	47.560 ppb	100.179 %	49.265 ppb
Concentration per Run 3	48.750 ppb	46.726 ppb	124.349 ppb	51.120 ppb	102.299 %	3.459 ppb	46.403 ppb	111.968 %	47.663 ppb
Concentration RSD	4.7 %	6.6 %	3.3 %	0.8 %	4.8 %	4.3 %	5.4 %	9.3 %	6.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	98.462 ppb	102.416 %	103.580 %	47.305 ppb	48.678 ppb	96.741 %
Concentration per Run 1	102.842 ppb	95.782 %	95.556 %	46.686 ppb	48.606 ppb	95.526 %
Concentration per Run 2	95.030 ppb	102.826 %	103.457 %	47.121 ppb	48.236 ppb	95.347 %
Concentration per Run 3	97.514 ppb	108.640 %	111.726 %	48.107 ppb	49.191 ppb	99.350 %
Concentration RSD	4.1 %	6.3 %	7.8 %	1.5 %	1.0 %	2.3 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	17	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1859957-6d5 6020TL	Rack	1		
Analysis started at:	12/6/2023 2:53:46 PM	Vial	48		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.667 %	91.408 %	0.012 ppb	38,234.931 ppb	10,388.054 ppb	3.589 ppb	624.496 ppb	24,892.624 ppb	105.650 %
Concentration per Run 1	101.348 %	87.209 %	0.013 ppb	39,903.866 ppb	10,999.707 ppb	3.891 ppb	670.636 ppb	25,927.248 ppb	105.407 %
Concentration per Run 2	98.634 %	90.504 %	0.009 ppb	37,445.187 ppb	10,303.916 ppb	3.533 ppb	580.906 ppb	24,195.068 ppb	104.894 %
Concentration per Run 3	96.019 %	96.512 %	0.014 ppb	37,355.740 ppb	9,860.539 ppb	3.342 ppb	621.947 ppb	24,555.558 ppb	106.650 %
Concentration RSD	2.7 %	5.2 %	23.3 %	3.8 %	5.5 %	7.8 %	7.2 %	3.7 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.028 ppb	0.070 ppb	107.635 ppb	989.944 ppb	0.059 ppb	0.033 ppb	0.046 ppb	-0.554 ppb	97.803 %
Concentration per Run 1	0.000 ppb	0.023 ppb	109.015 ppb	1,039.513 ppb	0.058 ppb	0.053 ppb	0.050 ppb	-0.549 ppb	93.608 %
Concentration per Run 2	-0.042 ppb	0.086 ppb	107.988 ppb	957.709 ppb	0.063 ppb	0.030 ppb	0.048 ppb	-0.527 ppb	100.545 %
Concentration per Run 3	-0.043 ppb	0.101 ppb	105.902 ppb	972.610 ppb	0.055 ppb	0.015 ppb	0.038 ppb	-0.587 ppb	99.255 %
Concentration RSD	86.9 %	59.2 %	1.5 %	4.4 %	6.5 %	59.8 %	14.8 %	5.5 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.831 ppb	0.276 ppb	148.586 ppb	1.818 ppb	94.029 %	0.000 ppb	-0.001 ppb	97.984 %	0.649 ppb
Concentration per Run 1	0.995 ppb	0.348 ppb	156.031 ppb	1.752 ppb	89.849 %	0.000 ppb	-0.001 ppb	94.011 %	0.631 ppb
Concentration per Run 2	0.849 ppb	0.100 ppb	142.284 ppb	1.660 ppb	96.113 %	0.000 ppb	-0.001 ppb	99.410 %	0.632 ppb
Concentration per Run 3	0.650 ppb	0.381 ppb	147.443 ppb	2.043 ppb	96.125 %	-0.001 ppb	-0.001 ppb	100.531 %	0.683 ppb
Concentration RSD	20.8 %	55.4 %	4.7 %	11.0 %	3.8 %	96.5 %	0.0 %	3.6 %	4.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	102.830 ppb	99.459 %	98.007 %	0.402 ppb	0.026 ppb	91.652 %
Concentration per Run 1	108.437 ppb	96.381 %	94.451 %	0.289 ppb	0.032 ppb	92.385 %
Concentration per Run 2	99.316 ppb	101.311 %	98.781 %	0.485 ppb	0.026 ppb	91.269 %
Concentration per Run 3	100.739 ppb	100.687 %	100.789 %	0.433 ppb	0.022 ppb	91.304 %
Concentration RSD	4.8 %	2.7 %	3.3 %	25.2 %	18.9 %	0.7 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	18	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-08 6020TL	Rack	1		
Analysis started at:	12/6/2023 2:58:25 PM	Vial	44		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.067 %	93.411 %	0.003 ppb	188,327.449 ppb	55,840.455 ppb	16.407 ppb	2,959.636 ppb	116,513.305 ppb	108.570 %
Concentration per Run 1	100.823 %	95.930 %	0.002 ppb	180,232.560 ppb	52,985.486 ppb	16.703 ppb	2,919.581 ppb	117,603.842 ppb	110.025 %
Concentration per Run 2	98.104 %	84.496 %	0.005 ppb	198,662.173 ppb	60,760.946 ppb	17.116 ppb	2,927.321 ppb	117,419.150 ppb	108.046 %
Concentration per Run 3	95.275 %	99.806 %	0.002 ppb	186,087.616 ppb	53,774.932 ppb	15.402 ppb	3,032.006 ppb	114,516.923 ppb	107.639 %
Concentration RSD	2.8 %	8.5 %	56.5 %	5.0 %	7.7 %	5.5 %	2.1 %	1.5 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.016 ppb	0.146 ppb	480.165 ppb	4,628.268 ppb	0.263 ppb	0.183 ppb	0.194 ppb	0.083 ppb	99.292 %
Concentration per Run 1	0.015 ppb	0.138 ppb	482.866 ppb	4,744.725 ppb	0.242 ppb	0.157 ppb	0.180 ppb	0.084 ppb	91.255 %
Concentration per Run 2	0.029 ppb	0.153 ppb	481.147 ppb	4,583.055 ppb	0.286 ppb	0.178 ppb	0.208 ppb	0.089 ppb	99.373 %
Concentration per Run 3	0.004 ppb	0.148 ppb	476.482 ppb	4,557.023 ppb	0.260 ppb	0.213 ppb	0.195 ppb	0.076 ppb	107.248 %
Concentration RSD	78.8 %	5.3 %	0.7 %	2.2 %	8.5 %	15.6 %	7.3 %	8.3 %	8.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.826 ppb	0.017 ppb	754.628 ppb	3.370 ppb	91.567 %	-0.002 ppb	0.001 ppb	98.102 %	0.355 ppb
Concentration per Run 1	4.107 ppb	-0.072 ppb	761.017 ppb	3.379 ppb	88.951 %	-0.002 ppb	0.003 ppb	91.866 %	0.349 ppb
Concentration per Run 2	3.664 ppb	0.196 ppb	735.849 ppb	3.382 ppb	90.599 %	-0.002 ppb	0.001 ppb	95.595 %	0.345 ppb
Concentration per Run 3	3.706 ppb	-0.073 ppb	767.018 ppb	3.350 ppb	95.150 %	-0.001 ppb	-0.001 ppb	106.845 %	0.373 ppb
Concentration RSD	6.4 %	911.8 %	2.2 %	0.5 %	3.5 %	15.1 %	262.0 %	7.9 %	4.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	506.198 ppb	101.656 %	102.388 %	0.133 ppb	0.037 ppb	87.261 %
Concentration per Run 1	506.737 ppb	97.782 %	97.985 %	0.074 ppb	0.039 ppb	87.175 %
Concentration per Run 2	507.101 ppb	100.340 %	99.945 %	0.160 ppb	0.038 ppb	85.471 %
Concentration per Run 3	504.755 ppb	106.848 %	109.234 %	0.165 ppb	0.035 ppb	89.137 %
Concentration RSD	0.2 %	4.6 %	5.9 %	38.4 %	4.7 %	2.1 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	19	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370481-01 6020TL	Rack	1		
Analysis started at:	12/6/2023 3:03:04 PM	Vial	49		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	125.212 %	134.561 %	12.927 ppb	20,116.528 ppb	41,670.704 ppb	170,888.678 ppb	9,046.908 ppb	29,033.104 ppb	603.020 %
Concentration per Run 1	128.130 %	128.295 %	12.863 ppb	20,701.086 ppb	42,803.759 ppb	172,098.547 ppb	8,942.875 ppb	29,574.402 ppb	612.627 %
Concentration per Run 2	126.280 %	127.714 %	12.837 ppb	20,533.027 ppb	41,992.999 ppb	170,483.129 ppb	9,135.119 ppb	28,213.073 ppb	604.690 %
Concentration per Run 3	121.226 %	147.675 %	13.081 ppb	19,115.470 ppb	40,215.352 ppb	170,084.359 ppb	9,062.730 ppb	29,311.836 ppb	591.742 %
Concentration RSD	2.9 %	8.4 %	1.0 %	4.3 %	3.2 %	0.6 %	1.1 %	2.5 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	118.571 ppb	156.112 ppb	25,727.017 ppb	173,197.732 ppb	529.871 ppb	280.550 ppb	514.488 ppb	516.321 ppb	132.475 %
Concentration per Run 1	122.306 ppb	159.745 ppb	26,245.802 ppb	175,205.402 ppb	552.016 ppb	288.369 ppb	532.118 ppb	529.119 ppb	127.178 %
Concentration per Run 2	120.666 ppb	158.550 ppb	25,502.627 ppb	174,561.238 ppb	529.116 ppb	286.495 ppb	525.305 ppb	520.249 ppb	130.111 %
Concentration per Run 3	112.741 ppb	150.040 ppb	25,432.624 ppb	169,826.556 ppb	508.481 ppb	266.784 ppb	486.041 ppb	499.595 ppb	140.135 %
Concentration RSD	4.3 %	3.4 %	1.8 %	1.7 %	4.1 %	4.3 %	4.8 %	2.9 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	87.346 ppb	123.553 ppb	178.639 ppb	1.390 ppb	93.709 %	0.283 ppb	4.188 ppb	101.763 %	0.943 ppb
Concentration per Run 1	89.213 ppb	131.677 ppb	179.979 ppb	1.411 ppb	87.725 %	0.299 ppb	4.355 ppb	96.065 %	0.987 ppb
Concentration per Run 2	86.266 ppb	123.861 ppb	173.506 ppb	1.321 ppb	94.179 %	0.291 ppb	4.032 ppb	102.055 %	0.962 ppb
Concentration per Run 3	86.560 ppb	115.121 ppb	182.431 ppb	1.439 ppb	99.223 %	0.259 ppb	4.179 ppb	107.170 %	0.881 ppb
Concentration RSD	1.9 %	6.7 %	2.6 %	4.4 %	6.2 %	7.6 %	3.9 %	5.5 %	5.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	975.623 ppb	157.166 %	118.657 %	2.844 ppb	910.131 ppb	106.240 %
Concentration per Run 1	985.908 ppb	151.519 %	113.461 %	2.734 ppb	879.928 ppb	108.286 %
Concentration per Run 2	944.060 ppb	156.343 %	117.556 %	2.883 ppb	920.906 ppb	104.610 %
Concentration per Run 3	996.901 ppb	163.635 %	124.955 %	2.914 ppb	929.558 ppb	105.823 %
Concentration RSD	2.9 %	3.9 %	4.9 %	3.4 %	2.9 %	1.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	20	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370800-01 6020TL	Rack	1		
Analysis started at:	12/6/2023 3:07:41 PM	Vial	50		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.746 %	94.315 %	0.007 ppb	47,178.001 ppb	14,368.159 ppb	13.182 ppb	17,832.319 ppb	101,478.220 ppb	107.182 %
Concentration per Run 1	94.035 %	87.403 %	0.005 ppb	49,447.331 ppb	14,911.228 ppb	12.518 ppb	18,025.494 ppb	102,265.623 ppb	108.886 %
Concentration per Run 2	92.091 %	93.217 %	0.008 ppb	46,560.045 ppb	13,815.978 ppb	13.536 ppb	17,022.023 ppb	99,948.057 ppb	106.284 %
Concentration per Run 3	89.111 %	102.326 %	0.009 ppb	45,526.626 ppb	14,377.271 ppb	13.490 ppb	18,449.440 ppb	102,220.981 ppb	106.377 %
Concentration RSD	2.7 %	8.0 %	28.7 %	4.3 %	3.8 %	4.4 %	4.1 %	1.3 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.233 ppb	0.465 ppb	1,037.821 ppb	33,810.254 ppb	1.338 ppb	0.870 ppb	0.130 ppb	1.044 ppb	99.159 %
Concentration per Run 1	0.295 ppb	0.493 ppb	1,009.090 ppb	33,591.975 ppb	1.399 ppb	0.826 ppb	0.124 ppb	1.161 ppb	93.696 %
Concentration per Run 2	0.181 ppb	0.475 ppb	1,005.689 ppb	31,907.525 ppb	1.248 ppb	0.928 ppb	0.131 ppb	0.941 ppb	100.571 %
Concentration per Run 3	0.225 ppb	0.426 ppb	1,098.686 ppb	35,931.261 ppb	1.367 ppb	0.855 ppb	0.136 ppb	1.030 ppb	103.211 %
Concentration RSD	24.6 %	7.5 %	5.1 %	6.0 %	6.0 %	6.0 %	4.7 %	10.6 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.008 ppb	0.133 ppb	374.721 ppb	0.231 ppb	94.048 %	0.000 ppb	0.001 ppb	98.072 %	0.188 ppb
Concentration per Run 1	6.801 ppb	0.181 ppb	370.317 ppb	0.209 ppb	89.532 %	-0.002 ppb	0.001 ppb	92.289 %	0.186 ppb
Concentration per Run 2	7.025 ppb	0.033 ppb	360.798 ppb	0.234 ppb	93.156 %	0.000 ppb	0.005 ppb	96.773 %	0.172 ppb
Concentration per Run 3	7.200 ppb	0.186 ppb	393.049 ppb	0.250 ppb	99.456 %	0.001 ppb	-0.001 ppb	105.152 %	0.205 ppb
Concentration RSD	2.8 %	65.4 %	4.4 %	8.9 %	5.3 %	370.9 %	214.5 %	6.7 %	8.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	97.197 ppb	100.886 %	100.273 %	0.076 ppb	0.231 ppb	90.808 %
Concentration per Run 1	97.459 ppb	95.674 %	95.491 %	0.043 ppb	0.265 ppb	89.380 %
Concentration per Run 2	97.035 ppb	100.023 %	97.197 %	0.092 ppb	0.238 ppb	89.326 %
Concentration per Run 3	97.096 ppb	106.961 %	108.131 %	0.092 ppb	0.190 ppb	93.718 %
Concentration RSD	0.2 %	5.6 %	6.8 %	37.4 %	16.6 %	2.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	21	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370831-01 6020TL	Rack	1		
Analysis started at:	12/6/2023 3:12:19 PM	Vial	51		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.498 %	89.083 %	0.011 ppb	46,171.715 ppb	1,606.322 ppb	24.524 ppb	2,621.769 ppb	13,717.204 ppb	104.412 %
Concentration per Run 1	95.452 %	77.325 %	0.014 ppb	50,091.999 ppb	1,764.787 ppb	25.909 ppb	2,816.739 ppb	14,802.169 ppb	105.063 %
Concentration per Run 2	93.682 %	91.860 %	0.002 ppb	44,308.987 ppb	1,557.961 ppb	22.719 ppb	2,461.076 ppb	12,781.842 ppb	105.374 %
Concentration per Run 3	91.362 %	98.062 %	0.018 ppb	44,114.159 ppb	1,496.216 ppb	24.944 ppb	2,587.492 ppb	13,567.600 ppb	102.799 %
Concentration RSD	2.2 %	11.9 %	73.9 %	7.4 %	8.8 %	6.7 %	6.9 %	7.4 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.079 ppb	0.231 ppb	1,286.241 ppb	6,143.684 ppb	0.047 ppb	0.312 ppb	0.527 ppb	3.900 ppb	100.467 %
Concentration per Run 1	0.077 ppb	0.278 ppb	1,329.333 ppb	6,501.558 ppb	0.047 ppb	0.294 ppb	0.620 ppb	4.087 ppb	94.169 %
Concentration per Run 2	0.092 ppb	0.232 ppb	1,244.873 ppb	5,896.586 ppb	0.050 ppb	0.280 ppb	0.405 ppb	3.940 ppb	100.390 %
Concentration per Run 3	0.068 ppb	0.184 ppb	1,284.517 ppb	6,032.908 ppb	0.045 ppb	0.364 ppb	0.555 ppb	3.673 ppb	106.843 %
Concentration RSD	15.7 %	20.2 %	3.3 %	5.2 %	5.2 %	14.4 %	20.9 %	5.4 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.371 ppb	0.130 ppb	47.999 ppb	0.201 ppb	96.408 %	0.001 ppb	0.119 ppb	99.739 %	0.159 ppb
Concentration per Run 1	0.495 ppb	0.055 ppb	48.093 ppb	0.194 ppb	92.038 %	0.001 ppb	0.106 ppb	93.036 %	0.131 ppb
Concentration per Run 2	0.216 ppb	0.294 ppb	46.282 ppb	0.214 ppb	96.181 %	0.000 ppb	0.106 ppb	98.544 %	0.168 ppb
Concentration per Run 3	0.402 ppb	0.040 ppb	49.622 ppb	0.196 ppb	101.007 %	0.002 ppb	0.144 ppb	107.639 %	0.176 ppb
Concentration RSD	38.3 %	109.8 %	3.5 %	5.5 %	4.7 %	108.9 %	18.3 %	7.4 %	15.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	25.906 ppb	100.877 %	101.121 %	0.044 ppb	0.113 ppb	95.150 %
Concentration per Run 1	27.298 ppb	96.285 %	94.565 %	0.018 ppb	0.118 ppb	93.438 %
Concentration per Run 2	24.982 ppb	100.947 %	99.427 %	0.055 ppb	0.111 ppb	95.022 %
Concentration per Run 3	25.437 ppb	105.399 %	109.371 %	0.059 ppb	0.111 ppb	96.990 %
Concentration RSD	4.7 %	4.5 %	7.5 %	51.3 %	3.8 %	1.9 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	22	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 3:16:56 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	90.761 %	102.261 %	61.042 ppb	6,507.308 ppb	5,791.764 ppb	60.524 ppb	5,949.056 ppb	5,832.179 ppb	102.486 %
Concentration per Run 1	92.339 %	94.767 %	60.809 ppb	6,305.390 ppb	5,986.096 ppb	62.822 ppb	6,063.648 ppb	6,076.120 ppb	102.758 %
Concentration per Run 2	90.785 %	105.039 %	61.107 ppb	5,967.513 ppb	5,498.589 ppb	56.219 ppb	5,775.680 ppb	5,665.285 ppb	102.870 %
Concentration per Run 3	89.159 %	106.977 %	61.211 ppb	7,249.022 ppb	5,890.608 ppb	62.530 ppb	6,007.839 ppb	5,755.132 ppb	101.831 %
Recovery Percentage 1			101.737 %	108.455 %	96.529 %	100.873 %	99.151 %	97.203 %	
Concentration RSD	1.8 %	6.4 %	0.3 %	10.2 %	4.5 %	6.2 %	2.6 %	3.7 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.748 ppb	58.001 ppb	60.373 ppb	6,072.033 ppb	59.810 ppb	59.777 ppb	60.768 ppb	59.463 ppb	98.335 %
Concentration per Run 1	59.162 ppb	59.858 ppb	62.287 ppb	6,414.710 ppb	62.177 ppb	61.968 ppb	64.045 ppb	62.481 ppb	91.713 %
Concentration per Run 2	57.682 ppb	57.575 ppb	59.795 ppb	6,063.100 ppb	60.821 ppb	60.605 ppb	61.677 ppb	58.296 ppb	96.121 %
Concentration per Run 3	56.401 ppb	56.571 ppb	59.038 ppb	5,738.288 ppb	56.433 ppb	56.756 ppb	56.580 ppb	57.611 ppb	107.172 %
Recovery Percentage 1	96.247 %	96.669 %	100.622 %	101.201 %	99.684 %	99.628 %	101.279 %	99.105 %	
Concentration RSD	2.4 %	2.9 %	2.8 %	5.6 %	5.0 %	4.5 %	6.3 %	4.4 %	8.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.641 ppb	60.613 ppb	58.637 ppb	60.154 ppb	97.583 %	60.500 ppb	60.849 ppb	99.038 %	60.274 ppb
Concentration per Run 1	64.880 ppb	63.848 ppb	59.375 ppb	59.877 ppb	91.220 %	63.051 ppb	63.426 ppb	90.657 %	63.497 ppb
Concentration per Run 2	61.317 ppb	59.100 ppb	56.924 ppb	60.644 ppb	97.952 %	60.325 ppb	60.042 ppb	96.372 %	59.075 ppb
Concentration per Run 3	58.726 ppb	58.891 ppb	59.612 ppb	59.941 ppb	103.577 %	58.123 ppb	59.079 ppb	110.084 %	58.251 ppb
Recovery Percentage 1	102.735 %	101.022 %	97.728 %	100.256 %		100.833 %	101.415 %		100.457 %
Concentration RSD	5.0 %	4.6 %	2.5 %	0.7 %	6.3 %	4.1 %	3.8 %	10.1 %	4.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	60.072 ppb	99.967 %	99.098 %	57.930 ppb	58.655 ppb	96.623 %
Concentration per Run 1	62.169 ppb	93.352 %	93.480 %	56.044 ppb	57.145 ppb	97.685 %
Concentration per Run 2	60.257 ppb	98.481 %	97.970 %	57.329 ppb	59.076 ppb	94.400 %
Concentration per Run 3	57.791 ppb	108.068 %	105.843 %	60.418 ppb	59.744 ppb	97.784 %
Recovery Percentage 1	100.121 %			96.550 %	97.758 %	
Concentration RSD	3.7 %	7.5 %	6.3 %	3.9 %	2.3 %	2.0 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	23	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 3:21:38 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	91.285 %	97.416 %	0.004 ppb	33.811 ppb	0.812 ppb	0.310 ppb	5.819 ppb	0.694 ppb	96.717 %
Concentration per Run 1	92.893 %	86.240 %	-0.004 ppb	50.718 ppb	0.914 ppb	0.204 ppb	13.055 ppb	-2.308 ppb	97.261 %
Concentration per Run 2	92.340 %	99.419 %	0.011 ppb	28.950 ppb	0.262 ppb	0.272 ppb	9.628 ppb	3.399 ppb	97.904 %
Concentration per Run 3	88.623 %	106.589 %	0.007 ppb	21.766 ppb	1.261 ppb	0.454 ppb	-5.225 ppb	0.989 ppb	94.986 %
Recovery Percentage 1			0.889 %	33.811 %	1.160 %	3.098 %	5.819 %	0.694 %	
Concentration RSD	2.5 %	10.6 %	171.1 %	44.6 %	62.5 %	41.7 %	167.0 %	413.0 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.042 ppb	0.031 ppb	0.090 ppb	13.350 ppb	0.000 ppb	0.033 ppb	0.041 ppb	-0.300 ppb	97.655 %
Concentration per Run 1	-0.040 ppb	0.015 ppb	0.095 ppb	11.902 ppb	0.000 ppb	0.059 ppb	0.039 ppb	-0.320 ppb	93.541 %
Concentration per Run 2	-0.029 ppb	0.065 ppb	0.049 ppb	14.403 ppb	0.004 ppb	0.012 ppb	0.047 ppb	-0.253 ppb	101.465 %
Concentration per Run 3	-0.058 ppb	0.013 ppb	0.126 ppb	13.746 ppb	-0.005 ppb	0.029 ppb	0.038 ppb	-0.328 ppb	97.957 %
Recovery Percentage 1	-0.844 %	3.106 %	8.973 %	26.701 %	-0.063 %	1.671 %	4.117 %	-6.006 %	
Concentration RSD	34.7 %	93.8 %	43.3 %	9.7 %	1,365.4 %	70.7 %	12.0 %	13.6 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.152 ppb	0.279 ppb	0.012 ppb	0.708 ppb	96.616 %	0.006 ppb	0.001 ppb	96.585 %	0.136 ppb
Concentration per Run 1	0.141 ppb	0.233 ppb	0.014 ppb	0.766 ppb	90.296 %	0.008 ppb	0.001 ppb	89.480 %	0.131 ppb
Concentration per Run 2	0.170 ppb	0.434 ppb	0.010 ppb	0.696 ppb	99.766 %	0.005 ppb	-0.001 ppb	102.037 %	0.151 ppb
Concentration per Run 3	0.144 ppb	0.170 ppb	0.011 ppb	0.663 ppb	99.787 %	0.006 ppb	0.003 ppb	98.237 %	0.125 ppb
Recovery Percentage 1	30.331 %	5.579 %	0.116 %	35.423 %		1.549 %	0.375 %		3.392 %
Concentration RSD	10.5 %	49.3 %	16.4 %	7.4 %	5.7 %	20.5 %	268.2 %	6.7 %	9.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.014 ppb	96.530 %	95.014 %	0.474 ppb	0.031 ppb	92.804 %
Concentration per Run 1	-0.014 ppb	89.778 %	89.153 %	0.374 ppb	0.035 ppb	89.402 %
Concentration per Run 2	-0.014 ppb	101.038 %	99.495 %	0.541 ppb	0.030 ppb	95.299 %
Concentration per Run 3	-0.014 ppb	98.774 %	96.394 %	0.506 ppb	0.028 ppb	93.712 %
Recovery Percentage 1	-2.791 %			47.360 %	3.085 %	
Concentration RSD	0.0 %	6.2 %	5.6 %	18.6 %	11.6 %	3.3 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	24	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-01 6020TL	Rack	1		
Analysis started at:	12/6/2023 3:45:02 PM	Vial	52		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.808 %	97.351 %	-0.003 ppb	117,986.255 ppb	5,723.167 ppb	5.420 ppb	458.128 ppb	45,843.348 ppb	103.779 %
Concentration per Run 1	101.626 %	91.860 %	-0.006 ppb	120,814.847 ppb	5,924.168 ppb	6.308 ppb	476.030 ppb	46,788.632 ppb	105.993 %
Concentration per Run 2	98.508 %	98.450 %	-0.004 ppb	118,926.455 ppb	5,672.630 ppb	5.090 ppb	452.336 ppb	46,389.401 ppb	103.830 %
Concentration per Run 3	96.289 %	101.744 %	0.001 ppb	114,217.464 ppb	5,572.704 ppb	4.860 ppb	446.017 ppb	44,352.012 ppb	101.515 %
Concentration RSD	2.7 %	5.2 %	110.0 %	2.9 %	3.2 %	14.4 %	3.5 %	2.9 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.306 ppb	0.194 ppb	609.876 ppb	464.822 ppb	0.171 ppb	0.489 ppb	0.155 ppb	-0.336 ppb	102.095 %
Concentration per Run 1	0.333 ppb	0.189 ppb	609.833 ppb	472.694 ppb	0.172 ppb	0.467 ppb	0.177 ppb	-0.338 ppb	97.124 %
Concentration per Run 2	0.253 ppb	0.186 ppb	606.313 ppb	457.790 ppb	0.162 ppb	0.522 ppb	0.162 ppb	-0.351 ppb	108.787 %
Concentration per Run 3	0.332 ppb	0.207 ppb	613.482 ppb	463.981 ppb	0.178 ppb	0.477 ppb	0.126 ppb	-0.318 ppb	100.372 %
Concentration RSD	15.1 %	5.8 %	0.6 %	1.6 %	4.6 %	6.0 %	17.1 %	4.9 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.634 ppb	0.177 ppb	466.101 ppb	5.136 ppb	95.293 %	-0.001 ppb	0.002 ppb	98.655 %	0.095 ppb
Concentration per Run 1	3.722 ppb	0.202 ppb	466.934 ppb	5.111 ppb	88.601 %	-0.002 ppb	0.005 ppb	90.329 %	0.085 ppb
Concentration per Run 2	3.553 ppb	0.348 ppb	475.756 ppb	4.974 ppb	100.068 %	-0.001 ppb	-0.001 ppb	104.750 %	0.088 ppb
Concentration per Run 3	3.628 ppb	-0.020 ppb	455.613 ppb	5.323 ppb	97.210 %	0.001 ppb	0.001 ppb	100.885 %	0.114 ppb
Concentration RSD	2.3 %	104.6 %	2.2 %	3.4 %	6.3 %	169.5 %	219.8 %	7.6 %	16.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	20.028 ppb	101.853 %	102.670 %	0.072 ppb	0.016 ppb	96.798 %
Concentration per Run 1	21.381 ppb	96.533 %	95.623 %	0.083 ppb	0.017 ppb	95.949 %
Concentration per Run 2	18.960 ppb	107.281 %	110.571 %	0.077 ppb	0.016 ppb	98.998 %
Concentration per Run 3	19.744 ppb	101.744 %	101.815 %	0.055 ppb	0.014 ppb	95.447 %
Concentration RSD	6.2 %	5.3 %	7.3 %	20.7 %	8.4 %	2.0 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	25	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-02 6020TL	Rack	1		
Analysis started at:	12/6/2023 3:49:40 PM	Vial	53		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.023 %	92.248 %	0.006 ppb	174,491.623 ppb	29,661.035 ppb	109.113 ppb	2,118.891 ppb	101,050.156 ppb	102.649 %
Concentration per Run 1	99.240 %	91.085 %	0.007 ppb	177,417.716 ppb	30,560.603 ppb	108.396 ppb	2,218.921 ppb	104,677.289 ppb	102.285 %
Concentration per Run 2	96.957 %	91.860 %	0.010 ppb	172,557.576 ppb	28,452.100 ppb	105.964 ppb	2,078.833 ppb	99,491.066 ppb	102.551 %
Concentration per Run 3	94.872 %	93.798 %	0.002 ppb	173,499.576 ppb	29,970.402 ppb	112.977 ppb	2,058.920 ppb	98,982.112 ppb	103.113 %
Concentration RSD	2.3 %	1.5 %	66.8 %	1.5 %	3.7 %	3.3 %	4.1 %	3.1 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.035 ppb	0.371 ppb	969.081 ppb	378.570 ppb	0.887 ppb	2.697 ppb	1.266 ppb	2.476 ppb	95.792 %
Concentration per Run 1	1.044 ppb	0.354 ppb	973.217 ppb	382.220 ppb	0.963 ppb	2.828 ppb	1.314 ppb	2.523 ppb	91.683 %
Concentration per Run 2	0.997 ppb	0.382 ppb	952.515 ppb	379.082 ppb	0.819 ppb	2.663 ppb	1.158 ppb	2.395 ppb	96.337 %
Concentration per Run 3	1.065 ppb	0.377 ppb	981.512 ppb	374.406 ppb	0.879 ppb	2.601 ppb	1.327 ppb	2.512 ppb	99.357 %
Concentration RSD	3.4 %	4.1 %	1.5 %	1.0 %	8.1 %	4.3 %	7.4 %	2.9 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.254 ppb	0.238 ppb	559.989 ppb	4.024 ppb	90.587 %	0.006 ppb	0.009 ppb	92.804 %	0.150 ppb
Concentration per Run 1	3.664 ppb	0.230 ppb	575.600 ppb	4.129 ppb	86.807 %	0.006 ppb	0.005 ppb	91.718 %	0.167 ppb
Concentration per Run 2	3.260 ppb	0.507 ppb	550.911 ppb	3.836 ppb	92.446 %	0.005 ppb	0.012 ppb	92.627 %	0.142 ppb
Concentration per Run 3	2.839 ppb	-0.022 ppb	553.456 ppb	4.108 ppb	92.508 %	0.007 ppb	0.011 ppb	94.068 %	0.142 ppb
Concentration RSD	12.7 %	110.9 %	2.4 %	4.1 %	3.6 %	21.7 %	38.0 %	1.3 %	9.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	159.584 ppb	98.239 %	98.350 %	0.037 ppb	0.428 ppb	88.303 %
Concentration per Run 1	163.777 ppb	94.754 %	91.509 %	0.020 ppb	0.433 ppb	88.990 %
Concentration per Run 2	153.412 ppb	99.201 %	102.053 %	0.044 ppb	0.422 ppb	88.207 %
Concentration per Run 3	161.564 ppb	100.763 %	101.488 %	0.047 ppb	0.429 ppb	87.712 %
Concentration RSD	3.4 %	3.2 %	6.0 %	39.7 %	1.3 %	0.7 %

Analysis index:	26	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	plasma went out	Rack	1		
Analysis started at:	12/6/2023 3:54:18 PM	Vial	54		

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	27	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 4:18:45 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	115.363 %	101.615 %	59.665 ppb	6,184.895 ppb	5,933.821 ppb	59.229 ppb	5,916.004 ppb	6,046.466 ppb	142.078 %
Concentration per Run 1	117.780 %	99.419 %	59.525 ppb	5,933.973 ppb	5,758.609 ppb	62.851 ppb	5,609.360 ppb	5,858.598 ppb	141.751 %
Concentration per Run 2	114.682 %	106.395 %	59.825 ppb	6,171.776 ppb	5,956.053 ppb	54.832 ppb	5,835.884 ppb	5,951.685 ppb	142.021 %
Concentration per Run 3	113.627 %	99.031 %	59.647 ppb	6,448.936 ppb	6,086.802 ppb	60.004 ppb	6,302.768 ppb	6,329.116 ppb	142.462 %
Recovery Percentage 1			99.442 %	103.082 %	98.897 %	98.715 %	98.600 %	100.774 %	
Concentration RSD	1.9 %	4.1 %	0.3 %	4.2 %	2.8 %	6.9 %	6.0 %	4.1 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.642 ppb	59.756 ppb	60.412 ppb	6,015.335 ppb	59.971 ppb	61.316 ppb	60.504 ppb	59.244 ppb	107.303 %
Concentration per Run 1	59.854 ppb	59.790 ppb	60.144 ppb	5,897.599 ppb	58.935 ppb	61.688 ppb	60.756 ppb	58.465 ppb	104.963 %
Concentration per Run 2	58.771 ppb	58.248 ppb	58.997 ppb	6,055.859 ppb	60.131 ppb	60.642 ppb	61.053 ppb	59.897 ppb	107.979 %
Concentration per Run 3	60.302 ppb	61.228 ppb	62.096 ppb	6,092.546 ppb	60.847 ppb	61.617 ppb	59.704 ppb	59.370 ppb	108.968 %
Recovery Percentage 1	99.404 %	99.593 %	100.687 %	100.256 %	99.952 %	102.193 %	100.840 %	98.740 %	
Concentration RSD	1.3 %	2.5 %	2.6 %	1.7 %	1.6 %	1.0 %	1.2 %	1.2 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.581 ppb	58.078 ppb	56.006 ppb	59.049 ppb	103.242 %	61.201 ppb	61.021 ppb	107.294 %	61.347 ppb
Concentration per Run 1	59.027 ppb	56.946 ppb	54.732 ppb	57.195 ppb	100.762 %	61.475 ppb	59.556 ppb	105.321 %	60.943 ppb
Concentration per Run 2	60.327 ppb	60.559 ppb	56.725 ppb	60.338 ppb	104.435 %	60.327 ppb	60.421 ppb	109.137 %	60.253 ppb
Concentration per Run 3	59.389 ppb	56.731 ppb	56.563 ppb	59.614 ppb	104.531 %	61.800 ppb	63.085 ppb	107.422 %	62.845 ppb
Recovery Percentage 1	99.301 %	96.797 %	93.344 %	98.415 %		102.001 %	101.701 %		102.245 %
Concentration RSD	1.1 %	3.7 %	2.0 %	2.8 %	2.1 %	1.3 %	3.0 %	1.8 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	55.304 ppb	106.664 %	106.752 %	34.371 ppb	33.533 ppb	229.716 %
Concentration per Run 1	55.699 ppb	106.125 %	105.064 %	17.091 ppb	16.633 ppb	381.346 %
Concentration per Run 2	54.680 ppb	106.043 %	107.917 %	37.070 ppb	36.867 ppb	174.878 %
Concentration per Run 3	55.533 ppb	107.824 %	107.275 %	48.952 ppb	47.100 ppb	132.923 %
Recovery Percentage 1	92.173 %			57.285 %	55.889 %	
Concentration RSD	1.0 %	0.9 %	1.4 %	46.8 %	46.2 %	57.9 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	28	User name	ALPHALAB\Metals-Instrument	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 4:23:26 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.821 %	98.966 %	0.006 ppb	2.726 ppb	1.781 ppb	0.709 ppb	0.266 ppb	4.785 ppb	111.910 %
Concentration per Run 1	112.631 %	92.054 %	0.007 ppb	14.044 ppb	1.989 ppb	1.317 ppb	9.093 ppb	2.728 ppb	113.565 %
Concentration per Run 2	107.227 %	105.039 %	0.008 ppb	-6.310 ppb	1.555 ppb	0.523 ppb	0.683 ppb	9.779 ppb	110.211 %
Concentration per Run 3	106.605 %	99.806 %	0.004 ppb	0.445 ppb	1.799 ppb	0.288 ppb	-8.977 ppb	1.848 ppb	111.954 %
Recovery Percentage 1			1.248 %	2.726 %	2.544 %	7.091 %	0.266 %	4.785 %	
Concentration RSD	3.0 %	6.6 %	34.4 %	380.3 %	12.2 %	76.0 %	3,395.8 %	90.8 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.045 ppb	0.009 ppb	0.085 ppb	12.842 ppb	0.002 ppb	0.053 ppb	0.038 ppb	-0.370 ppb	97.231 %
Concentration per Run 1	-0.041 ppb	0.035 ppb	0.127 ppb	13.566 ppb	0.007 ppb	0.070 ppb	0.059 ppb	-0.374 ppb	96.228 %
Concentration per Run 2	-0.029 ppb	-0.001 ppb	0.076 ppb	13.819 ppb	0.002 ppb	0.075 ppb	0.034 ppb	-0.324 ppb	97.867 %
Concentration per Run 3	-0.065 ppb	-0.008 ppb	0.053 ppb	11.141 ppb	-0.003 ppb	0.015 ppb	0.020 ppb	-0.412 ppb	97.598 %
Recovery Percentage 1	-0.898 %	0.868 %	8.536 %	25.684 %	0.442 %	2.667 %	3.788 %	-7.401 %	
Concentration RSD	40.8 %	260.9 %	43.9 %	11.5 %	243.9 %	62.3 %	51.7 %	12.0 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.007 ppb	0.458 ppb	0.004 ppb	0.682 ppb	101.038 %	0.003 ppb	0.002 ppb	103.006 %	0.066 ppb
Concentration per Run 1	0.081 ppb	0.284 ppb	0.005 ppb	0.707 ppb	99.896 %	0.003 ppb	0.001 ppb	97.921 %	0.066 ppb
Concentration per Run 2	-0.030 ppb	0.252 ppb	0.013 ppb	0.649 ppb	99.939 %	0.005 ppb	0.002 ppb	106.499 %	0.050 ppb
Concentration per Run 3	-0.028 ppb	0.836 ppb	-0.005 ppb	0.690 ppb	103.280 %	0.001 ppb	0.002 ppb	104.597 %	0.081 ppb
Recovery Percentage 1	1.486 %	9.150 %	0.044 %	34.088 %		0.790 %	0.942 %		1.641 %
Concentration RSD	851.8 %	71.8 %	205.1 %	4.3 %	1.9 %	53.8 %	55.0 %	4.4 %	23.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	101.588 %	101.807 %	0.481 ppb	0.019 ppb	104.423 %
Concentration per Run 1	0.000 ppb	102.228 %	99.755 %	0.367 ppb	0.023 ppb	108.801 %
Concentration per Run 2	0.013 ppb	99.474 %	100.583 %	0.574 ppb	0.019 ppb	100.978 %
Concentration per Run 3	-0.014 ppb	103.063 %	105.083 %	0.502 ppb	0.016 ppb	103.491 %
Recovery Percentage 1	-0.055 %			48.102 %	1.929 %	
Concentration RSD	4,955.2 %	1.8 %	2.8 %	21.8 %	19.4 %	3.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	29	User name	ALPHALAB\Metals-Instrument	Comment	CCV/MCCV
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 4:56:54 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.826 %	103.553 %	59.284 ppb	6,187.985 ppb	5,974.022 ppb	59.668 ppb	5,840.185 ppb	5,949.634 ppb	118.103 %
Concentration per Run 1	107.379 %	103.876 %	58.539 ppb	6,250.244 ppb	5,979.847 ppb	59.331 ppb	5,980.395 ppb	6,061.481 ppb	119.336 %
Concentration per Run 2	106.370 %	105.426 %	59.418 ppb	6,076.439 ppb	5,911.544 ppb	59.274 ppb	5,806.921 ppb	5,799.325 ppb	117.915 %
Concentration per Run 3	103.729 %	101.357 %	59.894 ppb	6,237.273 ppb	6,030.675 ppb	60.397 ppb	5,733.239 ppb	5,988.097 ppb	117.060 %
Recovery Percentage 1			98.806 %	103.133 %	99.567 %	99.446 %	97.336 %	99.161 %	
Concentration RSD	1.8 %	2.0 %	1.2 %	1.6 %	1.0 %	1.1 %	2.2 %	2.3 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.721 ppb	58.689 ppb	59.202 ppb	6,021.513 ppb	61.909 ppb	61.165 ppb	60.407 ppb	59.769 ppb	103.466 %
Concentration per Run 1	60.733 ppb	58.864 ppb	58.066 ppb	6,038.133 ppb	61.256 ppb	62.068 ppb	59.512 ppb	60.815 ppb	100.699 %
Concentration per Run 2	57.828 ppb	57.946 ppb	59.064 ppb	5,980.871 ppb	62.682 ppb	61.512 ppb	59.621 ppb	58.804 ppb	104.317 %
Concentration per Run 3	57.604 ppb	59.258 ppb	60.477 ppb	6,045.534 ppb	61.789 ppb	59.915 ppb	62.087 ppb	59.688 ppb	105.381 %
Recovery Percentage 1	97.869 %	97.815 %	98.670 %	100.359 %	103.182 %	101.941 %	100.678 %	99.615 %	
Concentration RSD	3.0 %	1.1 %	2.0 %	0.6 %	1.2 %	1.8 %	2.4 %	1.7 %	2.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.209 ppb	57.690 ppb	55.926 ppb	57.878 ppb	103.711 %	59.590 ppb	59.409 ppb	107.631 %	59.260 ppb
Concentration per Run 1	60.443 ppb	62.066 ppb	56.617 ppb	56.947 ppb	102.616 %	58.363 ppb	57.631 ppb	109.567 %	57.832 ppb
Concentration per Run 2	59.850 ppb	52.972 ppb	55.880 ppb	57.463 ppb	102.768 %	59.370 ppb	59.740 ppb	108.979 %	58.545 ppb
Concentration per Run 3	60.334 ppb	58.033 ppb	55.279 ppb	59.223 ppb	105.750 %	61.036 ppb	60.855 ppb	104.347 %	61.401 ppb
Recovery Percentage 1	100.349 %	96.151 %	93.209 %	96.463 %		99.316 %	99.015 %		98.766 %
Concentration RSD	0.5 %	7.9 %	1.2 %	2.1 %	1.7 %	2.3 %	2.8 %	2.7 %	3.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	54.175 ppb	104.859 %	105.674 %	57.552 ppb	58.481 ppb	131.669 %
Concentration per Run 1	54.228 ppb	106.632 %	107.522 %	54.580 ppb	57.690 ppb	165.886 %
Concentration per Run 2	52.959 ppb	102.902 %	106.795 %	56.612 ppb	57.868 ppb	120.759 %
Concentration per Run 3	55.338 ppb	105.043 %	102.705 %	61.465 ppb	59.885 ppb	108.360 %
Recovery Percentage 1	90.292 %			95.920 %	97.468 %	
Concentration RSD	2.2 %	1.8 %	2.5 %	6.1 %	2.1 %	23.0 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	30	User name	ALPHALAB\Metals-Instrument	Comment	CCB
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 5:01:35 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.990 %	88.889 %	0.006 ppb	14.376 ppb	1.216 ppb	0.653 ppb	5.942 ppb	9.204 ppb	104.275 %
Concentration per Run 1	103.906 %	84.302 %	0.010 ppb	24.647 ppb	1.759 ppb	0.122 ppb	11.132 ppb	24.228 ppb	103.568 %
Concentration per Run 2	101.011 %	92.636 %	0.005 ppb	9.410 ppb	0.494 ppb	0.427 ppb	4.586 ppb	3.518 ppb	106.169 %
Concentration per Run 3	98.053 %	89.729 %	0.004 ppb	9.070 ppb	1.395 ppb	1.410 ppb	2.107 ppb	-0.134 ppb	103.088 %
Recovery Percentage 1			1.267 %	14.376 %	1.737 %	6.534 %	5.942 %	9.204 %	
Concentration RSD	2.9 %	4.8 %	47.1 %	61.9 %	53.5 %	103.0 %	78.5 %	142.8 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.057 ppb	0.042 ppb	0.082 ppb	10.630 ppb	0.001 ppb	0.040 ppb	0.004 ppb	-0.397 ppb	97.586 %
Concentration per Run 1	-0.063 ppb	0.053 ppb	0.100 ppb	10.785 ppb	0.004 ppb	0.056 ppb	0.009 ppb	-0.337 ppb	91.606 %
Concentration per Run 2	-0.049 ppb	0.039 ppb	0.043 ppb	9.854 ppb	0.001 ppb	0.026 ppb	0.010 ppb	-0.450 ppb	98.091 %
Concentration per Run 3	-0.057 ppb	0.034 ppb	0.103 ppb	11.251 ppb	0.000 ppb	0.038 ppb	-0.006 ppb	-0.404 ppb	103.060 %
Recovery Percentage 1	-1.134 %	4.206 %	8.190 %	21.260 %	0.285 %	2.014 %	0.409 %	-7.940 %	
Concentration RSD	12.4 %	22.6 %	40.8 %	6.7 %	142.0 %	37.3 %	219.1 %	14.3 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.165 ppb	0.485 ppb	0.002 ppb	0.762 ppb	98.746 %	0.005 ppb	0.005 ppb	100.925 %	0.028 ppb
Concentration per Run 1	0.442 ppb	0.229 ppb	0.000 ppb	0.772 ppb	95.367 %	0.004 ppb	0.003 ppb	97.547 %	0.023 ppb
Concentration per Run 2	0.118 ppb	0.663 ppb	0.008 ppb	0.758 ppb	99.635 %	0.005 ppb	0.003 ppb	101.959 %	0.033 ppb
Concentration per Run 3	-0.066 ppb	0.563 ppb	-0.003 ppb	0.755 ppb	101.235 %	0.004 ppb	0.008 ppb	103.269 %	0.027 ppb
Recovery Percentage 1	32.906 %	9.701 %	0.016 %	38.089 %		1.146 %	2.287 %		0.689 %
Concentration RSD	156.2 %	46.8 %	356.9 %	1.2 %	3.1 %	8.0 %	71.5 %	3.0 %	18.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.028 ppb	98.535 %	98.113 %	0.536 ppb	0.022 ppb	95.212 %
Concentration per Run 1	0.029 ppb	95.547 %	94.231 %	0.424 ppb	0.024 ppb	97.485 %
Concentration per Run 2	0.042 ppb	98.422 %	98.388 %	0.627 ppb	0.023 ppb	94.360 %
Concentration per Run 3	0.013 ppb	101.636 %	101.721 %	0.558 ppb	0.020 ppb	93.790 %
Recovery Percentage 1	5.631 %			53.644 %	2.222 %	
Concentration RSD	50.7 %	3.1 %	3.8 %	19.2 %	9.6 %	2.1 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	31	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-03 6020TL	Rack	1		
Analysis started at:	12/6/2023 5:16:00 PM	Vial	54		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.617 %	103.682 %	0.012 ppb	110,504.437 ppb	134,301.185 ppb	34.945 ppb	12,810.581 ppb	**524,132.763 ppb**	133.977 %
Concentration per Run 1	112.912 %	104.845 %	0.016 ppb	105,624.603 ppb	127,487.340 ppb	34.561 ppb	12,668.495 ppb	521,433.423 ppb	136.525 %
Concentration per Run 2	108.567 %	103.101 %	0.010 ppb	111,982.255 ppb	137,322.336 ppb	34.928 ppb	13,066.834 ppb	530,142.725 ppb	133.852 %
Concentration per Run 3	104.372 %	103.101 %	0.010 ppb	113,906.452 ppb	138,093.878 ppb	35.346 ppb	12,696.414 ppb	520,822.142 ppb	131.554 %
Concentration RSD	3.9 %	1.0 %	29.7 %	3.9 %	4.4 %	1.1 %	1.7 %	1.0 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.487 ppb	0.469 ppb	3,189.538 ppb	98,475.815 ppb	2.013 ppb	3.132 ppb	0.318 ppb	1.511 ppb	103.216 %
Concentration per Run 1	0.511 ppb	0.482 ppb	3,089.807 ppb	96,195.365 ppb	2.015 ppb	3.299 ppb	0.352 ppb	1.471 ppb	101.300 %
Concentration per Run 2	0.519 ppb	0.457 ppb	3,155.668 ppb	99,013.256 ppb	2.001 ppb	3.008 ppb	0.290 ppb	1.434 ppb	103.615 %
Concentration per Run 3	0.431 ppb	0.469 ppb	3,323.140 ppb	100,218.825 ppb	2.025 ppb	3.088 ppb	0.311 ppb	1.628 ppb	104.732 %
Concentration RSD	10.0 %	2.7 %	3.8 %	2.1 %	0.6 %	4.8 %	9.9 %	6.8 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	19.825 ppb	0.305 ppb	1,817.426 ppb	1.541 ppb	96.642 %	0.000 ppb	0.005 ppb	106.110 %	0.156 ppb
Concentration per Run 1	19.761 ppb	0.436 ppb	1,787.086 ppb	1.450 ppb	96.868 %	-0.001 ppb	0.008 ppb	106.120 %	0.131 ppb
Concentration per Run 2	20.099 ppb	0.303 ppb	1,837.959 ppb	1.482 ppb	95.587 %	-0.001 ppb	0.006 ppb	104.937 %	0.163 ppb
Concentration per Run 3	19.614 ppb	0.177 ppb	1,827.233 ppb	1.690 ppb	97.470 %	0.003 ppb	0.001 ppb	107.273 %	0.174 ppb
Concentration RSD	1.3 %	42.5 %	1.5 %	8.4 %	1.0 %	593.1 %	78.8 %	1.1 %	14.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	1,789.806 ppb	108.463 %	108.588 %	0.070 ppb	0.064 ppb	146.127 %
Concentration per Run 1	1,756.828 ppb	108.539 %	108.342 %	0.028 ppb	0.046 ppb	195.631 %
Concentration per Run 2	1,819.499 ppb	108.901 %	107.199 %	0.087 ppb	0.066 ppb	131.390 %
Concentration per Run 3	1,793.092 ppb	107.950 %	110.222 %	0.093 ppb	0.081 ppb	111.359 %
Concentration RSD	1.8 %	0.4 %	1.4 %	52.0 %	27.0 %	30.1 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	32	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-04 6020TL	Rack	1		
Analysis started at:	12/6/2023 5:20:38 PM	Vial	55		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.810 %	95.736 %	0.000 ppb	150,949.375 ppb	61,671.278 ppb	24.157 ppb	1,862.725 ppb	125,516.056 ppb	119.703 %
Concentration per Run 1	112.204 %	87.015 %	-0.003 ppb	161,085.013 ppb	65,280.576 ppb	24.502 ppb	1,934.875 ppb	133,156.930 ppb	122.607 %
Concentration per Run 2	109.266 %	100.000 %	-0.002 ppb	144,389.106 ppb	59,637.575 ppb	23.787 ppb	1,788.158 ppb	122,591.673 ppb	118.741 %
Concentration per Run 3	104.959 %	100.194 %	0.006 ppb	147,374.007 ppb	60,095.684 ppb	24.183 ppb	1,865.143 ppb	120,799.565 ppb	117.761 %
Concentration RSD	3.3 %	7.9 %	1,644.1 %	5.9 %	5.1 %	1.5 %	3.9 %	5.3 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.003 ppb	0.235 ppb	47.418 ppb	1,231.465 ppb	0.060 ppb	0.242 ppb	0.078 ppb	-0.347 ppb	101.670 %
Concentration per Run 1	-0.009 ppb	0.300 ppb	49.586 ppb	1,285.289 ppb	0.069 ppb	0.313 ppb	0.075 ppb	-0.307 ppb	95.885 %
Concentration per Run 2	-0.015 ppb	0.200 ppb	45.670 ppb	1,171.978 ppb	0.040 ppb	0.227 ppb	0.060 ppb	-0.375 ppb	103.136 %
Concentration per Run 3	0.032 ppb	0.205 ppb	46.997 ppb	1,237.130 ppb	0.070 ppb	0.187 ppb	0.098 ppb	-0.359 ppb	105.990 %
Concentration RSD	957.3 %	23.9 %	4.2 %	4.6 %	28.2 %	26.5 %	25.0 %	10.2 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.438 ppb	0.005 ppb	548.978 ppb	1.864 ppb	94.124 %	0.000 ppb	-0.001 ppb	103.989 %	0.010 ppb
Concentration per Run 1	1.738 ppb	-0.012 ppb	557.074 ppb	1.740 ppb	93.606 %	0.002 ppb	-0.001 ppb	103.483 %	-0.007 ppb
Concentration per Run 2	1.360 ppb	-0.011 ppb	551.347 ppb	1.815 ppb	92.542 %	-0.001 ppb	-0.001 ppb	103.130 %	0.020 ppb
Concentration per Run 3	1.216 ppb	0.039 ppb	538.512 ppb	2.038 ppb	96.226 %	0.000 ppb	0.001 ppb	105.355 %	0.018 ppb
Concentration RSD	18.7 %	562.8 %	1.7 %	8.3 %	2.0 %	538.5 %	164.8 %	1.1 %	143.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	68.475 ppb	103.492 %	104.708 %	0.045 ppb	0.033 ppb	93.406 %
Concentration per Run 1	68.965 ppb	102.344 %	105.780 %	0.015 ppb	0.030 ppb	93.809 %
Concentration per Run 2	68.119 ppb	105.008 %	103.373 %	0.058 ppb	0.035 ppb	93.136 %
Concentration per Run 3	68.342 ppb	103.124 %	104.971 %	0.060 ppb	0.034 ppb	93.273 %
Concentration RSD	0.6 %	1.3 %	1.2 %	56.9 %	7.2 %	0.4 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	33	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-05 6020TL	Rack	1		
Analysis started at:	12/6/2023 5:25:16 PM	Vial	56		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.490 %	97.416 %	0.154 ppb	115,363.938 ppb	49,639.859 ppb	3,525.306 ppb	4,670.789 ppb	319,965.278 ppb	122.724 %
Concentration per Run 1	111.835 %	98.256 %	0.155 ppb	112,130.019 ppb	48,990.725 ppb	3,448.029 ppb	4,658.602 ppb	319,153.576 ppb	124.254 %
Concentration per Run 2	108.179 %	93.798 %	0.155 ppb	118,696.510 ppb	51,531.184 ppb	3,721.146 ppb	4,674.431 ppb	318,732.968 ppb	121.829 %
Concentration per Run 3	105.455 %	100.194 %	0.153 ppb	115,265.286 ppb	48,397.669 ppb	3,406.742 ppb	4,679.336 ppb	322,009.289 ppb	122.089 %
Concentration RSD	3.0 %	3.4 %	0.7 %	2.8 %	3.4 %	4.8 %	0.2 %	0.6 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	7.080 ppb	4.954 ppb	1,203.239 ppb	9,000.352 ppb	4.546 ppb	16.672 ppb	9.826 ppb	19.318 ppb	101.325 %
Concentration per Run 1	7.329 ppb	5.046 ppb	1,165.928 ppb	9,018.766 ppb	4.530 ppb	16.405 ppb	9.985 ppb	19.782 ppb	98.207 %
Concentration per Run 2	6.971 ppb	4.949 ppb	1,195.495 ppb	8,914.180 ppb	4.501 ppb	16.679 ppb	9.850 ppb	18.788 ppb	103.019 %
Concentration per Run 3	6.941 ppb	4.866 ppb	1,248.295 ppb	9,068.111 ppb	4.606 ppb	16.932 ppb	9.644 ppb	19.384 ppb	102.750 %
Concentration RSD	3.0 %	1.8 %	3.5 %	0.9 %	1.2 %	1.6 %	1.7 %	2.6 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	5.368 ppb	2.579 ppb	2,148.397 ppb	0.904 ppb	92.828 %	0.023 ppb	0.045 ppb	99.895 %	0.080 ppb
Concentration per Run 1	5.508 ppb	3.042 ppb	2,169.221 ppb	0.964 ppb	91.296 %	0.023 ppb	0.043 ppb	95.623 %	0.079 ppb
Concentration per Run 2	5.264 ppb	2.188 ppb	2,150.065 ppb	0.835 ppb	92.857 %	0.022 ppb	0.045 ppb	99.961 %	0.085 ppb
Concentration per Run 3	5.333 ppb	2.506 ppb	2,125.906 ppb	0.914 ppb	94.330 %	0.024 ppb	0.046 ppb	104.101 %	0.075 ppb
Concentration RSD	2.3 %	16.7 %	1.0 %	7.2 %	1.6 %	4.2 %	3.6 %	4.2 %	6.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	80.091 ppb	104.016 %	105.013 %	0.087 ppb	3.768 ppb	93.977 %
Concentration per Run 1	80.565 ppb	102.952 %	103.262 %	0.054 ppb	3.611 ppb	97.497 %
Concentration per Run 2	79.553 ppb	104.018 %	107.598 %	0.095 ppb	3.775 ppb	92.969 %
Concentration per Run 3	80.154 ppb	105.079 %	104.180 %	0.114 ppb	3.918 ppb	91.465 %
Concentration RSD	0.6 %	1.0 %	2.2 %	34.9 %	4.1 %	3.3 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	34	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-06 6020TL	Rack	1		
Analysis started at:	12/6/2023 5:29:55 PM	Vial	57		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.461 %	101.227 %	0.003 ppb	47,566.934 ppb	58,768.832 ppb	12.529 ppb	1,954.399 ppb	145,229.262 ppb	112.295 %
Concentration per Run 1	108.499 %	98.256 %	0.003 ppb	48,379.978 ppb	58,922.368 ppb	12.608 ppb	1,945.190 ppb	147,456.207 ppb	113.643 %
Concentration per Run 2	105.730 %	100.194 %	-0.002 ppb	47,666.520 ppb	60,583.188 ppb	12.264 ppb	1,958.186 ppb	146,209.693 ppb	112.641 %
Concentration per Run 3	102.155 %	105.233 %	0.009 ppb	46,654.305 ppb	56,800.939 ppb	12.716 ppb	1,959.822 ppb	142,021.886 ppb	110.601 %
Concentration RSD	3.0 %	3.6 %	170.7 %	1.8 %	3.2 %	1.9 %	0.4 %	2.0 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.002 ppb	0.203 ppb	182.558 ppb	1,589.369 ppb	0.162 ppb	0.492 ppb	0.737 ppb	0.461 ppb	101.028 %
Concentration per Run 1	-0.013 ppb	0.189 ppb	179.604 ppb	1,595.544 ppb	0.169 ppb	0.486 ppb	0.876 ppb	0.344 ppb	99.213 %
Concentration per Run 2	0.006 ppb	0.186 ppb	183.004 ppb	1,558.292 ppb	0.148 ppb	0.444 ppb	0.688 ppb	0.548 ppb	102.922 %
Concentration per Run 3	0.013 ppb	0.233 ppb	185.066 ppb	1,614.271 ppb	0.167 ppb	0.545 ppb	0.646 ppb	0.490 ppb	100.950 %
Concentration RSD	707.3 %	13.0 %	1.5 %	1.8 %	7.3 %	10.4 %	16.6 %	22.8 %	1.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.402 ppb	0.060 ppb	368.254 ppb	3.858 ppb	95.573 %	-0.002 ppb	-0.001 ppb	102.237 %	-0.012 ppb
Concentration per Run 1	2.491 ppb	0.093 ppb	363.570 ppb	3.703 ppb	96.249 %	-0.002 ppb	-0.001 ppb	102.689 %	-0.019 ppb
Concentration per Run 2	2.323 ppb	-0.011 ppb	366.675 ppb	3.901 ppb	94.995 %	-0.002 ppb	-0.001 ppb	100.980 %	-0.015 ppb
Concentration per Run 3	2.394 ppb	0.100 ppb	374.516 ppb	3.969 ppb	95.476 %	-0.002 ppb	-0.001 ppb	103.043 %	-0.001 ppb
Concentration RSD	3.5 %	102.7 %	1.5 %	3.6 %	0.7 %	13.5 %	0.0 %	1.1 %	81.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	35.466 ppb	103.929 %	102.890 %	0.021 ppb	0.065 ppb	93.726 %
Concentration per Run 1	35.115 ppb	102.619 %	102.134 %	0.002 ppb	0.061 ppb	94.798 %
Concentration per Run 2	36.838 ppb	104.284 %	102.067 %	0.026 ppb	0.065 ppb	94.559 %
Concentration per Run 3	34.445 ppb	104.884 %	104.469 %	0.035 ppb	0.069 ppb	91.822 %
Concentration RSD	3.5 %	1.1 %	1.3 %	81.3 %	5.6 %	1.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	35	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-07 6020TL	Rack	1		
Analysis started at:	12/6/2023 5:34:33 PM	Vial	58		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.983 %	95.607 %	0.013 ppb	181,871.955 ppb	23,316.159 ppb	138.231 ppb	2,933.224 ppb	109,188.994 ppb	110.848 %
Concentration per Run 1	103.884 %	98.062 %	0.018 ppb	175,297.732 ppb	21,954.852 ppb	134.028 ppb	2,919.268 ppb	110,474.889 ppb	111.785 %
Concentration per Run 2	99.399 %	86.240 %	0.006 ppb	198,525.412 ppb	25,577.254 ppb	150.099 ppb	3,117.358 ppb	111,404.602 ppb	110.886 %
Concentration per Run 3	96.665 %	102.519 %	0.015 ppb	171,792.721 ppb	22,416.370 ppb	130.567 ppb	2,763.045 ppb	105,687.493 ppb	109.871 %
Concentration RSD	3.6 %	8.8 %	45.8 %	8.0 %	8.5 %	7.5 %	6.1 %	2.8 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.670 ppb	0.501 ppb	562.087 ppb	2,941.386 ppb	0.283 ppb	1.372 ppb	0.645 ppb	1.041 ppb	99.053 %
Concentration per Run 1	0.529 ppb	0.522 ppb	533.360 ppb	2,874.739 ppb	0.298 ppb	1.254 ppb	0.690 ppb	1.049 ppb	100.129 %
Concentration per Run 2	0.801 ppb	0.507 ppb	595.317 ppb	3,060.239 ppb	0.272 ppb	1.333 ppb	0.565 ppb	1.059 ppb	99.741 %
Concentration per Run 3	0.678 ppb	0.475 ppb	557.585 ppb	2,889.179 ppb	0.278 ppb	1.528 ppb	0.682 ppb	1.015 ppb	97.288 %
Concentration RSD	20.4 %	4.8 %	5.6 %	3.5 %	4.7 %	10.3 %	10.8 %	2.2 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.932 ppb	0.209 ppb	5,666.083 ppb	0.987 ppb	91.393 %	-0.001 ppb	0.006 ppb	98.307 %	0.063 ppb
Concentration per Run 1	4.076 ppb	0.253 ppb	5,633.241 ppb	0.916 ppb	90.507 %	-0.001 ppb	-0.001 ppb	98.470 %	0.056 ppb
Concentration per Run 2	3.519 ppb	0.266 ppb	5,674.257 ppb	1.040 ppb	93.093 %	0.000 ppb	0.013 ppb	99.106 %	0.069 ppb
Concentration per Run 3	4.202 ppb	0.108 ppb	5,690.752 ppb	1.006 ppb	90.578 %	-0.001 ppb	0.005 ppb	97.344 %	0.062 ppb
Concentration RSD	9.2 %	42.0 %	0.5 %	6.4 %	1.6 %	150.0 %	129.7 %	0.9 %	10.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	646.763 ppb	100.209 %	100.671 %	0.020 ppb	1.829 ppb	90.399 %
Concentration per Run 1	669.057 ppb	97.908 %	98.856 %	0.000 ppb	1.761 ppb	93.611 %
Concentration per Run 2	642.419 ppb	101.173 %	101.717 %	0.023 ppb	1.869 ppb	89.199 %
Concentration per Run 3	628.812 ppb	101.545 %	101.442 %	0.036 ppb	1.858 ppb	88.386 %
Concentration RSD	3.2 %	2.0 %	1.6 %	91.4 %	3.2 %	3.1 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	36	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-09 6020TL	Rack	1		
Analysis started at:	12/6/2023 5:39:12 PM	Vial	59		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.750 %	93.798 %	0.016 ppb	55,560.707 ppb	52,622.928 ppb	277.457 ppb	1,433.580 ppb	147,524.088 ppb	110.047 %
Concentration per Run 1	103.851 %	98.837 %	0.012 ppb	54,316.508 ppb	51,772.513 ppb	281.545 ppb	1,464.484 ppb	152,344.330 ppb	109.568 %
Concentration per Run 2	102.230 %	90.698 %	0.013 ppb	55,902.359 ppb	53,463.120 ppb	280.114 ppb	1,397.551 ppb	148,888.815 ppb	111.561 %
Concentration per Run 3	99.168 %	91.860 %	0.022 ppb	56,463.255 ppb	52,633.151 ppb	270.712 ppb	1,438.705 ppb	141,339.119 ppb	109.011 %
Concentration RSD	2.3 %	4.7 %	34.9 %	2.0 %	1.6 %	2.1 %	2.4 %	3.8 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.427 ppb	0.532 ppb	87.667 ppb	3,288.871 ppb	0.640 ppb	0.872 ppb	0.600 ppb	1.639 ppb	98.662 %
Concentration per Run 1	0.399 ppb	0.545 ppb	86.201 ppb	3,309.253 ppb	0.630 ppb	1.060 ppb	0.601 ppb	1.682 ppb	99.119 %
Concentration per Run 2	0.421 ppb	0.531 ppb	89.044 ppb	3,299.722 ppb	0.676 ppb	0.770 ppb	0.554 ppb	1.597 ppb	98.989 %
Concentration per Run 3	0.460 ppb	0.521 ppb	87.756 ppb	3,257.638 ppb	0.615 ppb	0.786 ppb	0.644 ppb	1.639 ppb	97.878 %
Concentration RSD	7.3 %	2.2 %	1.6 %	0.8 %	4.9 %	18.7 %	7.5 %	2.6 %	0.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	14.102 ppb	0.258 ppb	276.039 ppb	1.527 ppb	93.128 %	0.000 ppb	0.003 ppb	99.590 %	0.001 ppb
Concentration per Run 1	14.350 ppb	0.212 ppb	295.216 ppb	1.564 ppb	92.812 %	0.001 ppb	0.007 ppb	102.255 %	-0.002 ppb
Concentration per Run 2	14.177 ppb	0.318 ppb	270.665 ppb	1.601 ppb	93.227 %	-0.002 ppb	0.003 ppb	99.227 %	-0.001 ppb
Concentration per Run 3	13.780 ppb	0.245 ppb	262.235 ppb	1.416 ppb	93.345 %	0.001 ppb	-0.001 ppb	97.288 %	0.005 ppb
Concentration RSD	2.1 %	20.9 %	6.2 %	6.4 %	0.3 %	1,450.2 %	148.1 %	2.5 %	537.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	167.623 ppb	100.796 %	101.720 %	0.020 ppb	0.353 ppb	92.993 %
Concentration per Run 1	175.002 ppb	102.243 %	106.089 %	0.001 ppb	0.342 ppb	96.905 %
Concentration per Run 2	164.312 ppb	101.394 %	100.758 %	0.030 ppb	0.367 ppb	91.536 %
Concentration per Run 3	163.556 ppb	98.753 %	98.313 %	0.030 ppb	0.351 ppb	90.538 %
Concentration RSD	3.8 %	1.8 %	3.9 %	81.9 %	3.7 %	3.7 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	37	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-10 6020TL	Rack	1		
Analysis started at:	12/6/2023 5:43:52 PM	Vial	60		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.823 %	95.413 %	0.002 ppb	73,924.701 ppb	44,489.520 ppb	52.601 ppb	1,519.351 ppb	108,627.258 ppb	108.886 %
Concentration per Run 1	103.699 %	98.643 %	0.001 ppb	73,771.840 ppb	43,770.419 ppb	52.189 ppb	1,535.853 ppb	107,989.300 ppb	110.443 %
Concentration per Run 2	100.280 %	95.736 %	0.000 ppb	72,997.673 ppb	43,385.562 ppb	51.021 ppb	1,438.708 ppb	106,914.412 ppb	108.176 %
Concentration per Run 3	98.490 %	91.860 %	0.004 ppb	75,004.589 ppb	46,312.578 ppb	54.595 ppb	1,583.493 ppb	110,978.064 ppb	108.039 %
Concentration RSD	2.6 %	3.6 %	108.3 %	1.4 %	3.6 %	3.5 %	4.9 %	1.9 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.077 ppb	0.500 ppb	46.836 ppb	1,908.424 ppb	0.499 ppb	1.020 ppb	0.246 ppb	0.493 ppb	101.318 %
Concentration per Run 1	0.091 ppb	0.471 ppb	45.842 ppb	1,838.357 ppb	0.507 ppb	0.983 ppb	0.231 ppb	0.534 ppb	104.674 %
Concentration per Run 2	0.032 ppb	0.464 ppb	45.563 ppb	1,880.294 ppb	0.486 ppb	1.027 ppb	0.252 ppb	0.393 ppb	98.988 %
Concentration per Run 3	0.107 ppb	0.565 ppb	49.102 ppb	2,006.620 ppb	0.503 ppb	1.050 ppb	0.254 ppb	0.552 ppb	100.291 %
Concentration RSD	51.6 %	11.3 %	4.2 %	4.6 %	2.2 %	3.4 %	5.3 %	17.7 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	17.491 ppb	-0.019 ppb	257.113 ppb	2.095 ppb	94.465 %	0.000 ppb	0.000 ppb	100.596 %	0.028 ppb
Concentration per Run 1	16.789 ppb	-0.079 ppb	262.261 ppb	1.844 ppb	94.476 %	0.002 ppb	0.003 ppb	105.977 %	0.020 ppb
Concentration per Run 2	17.479 ppb	-0.071 ppb	252.257 ppb	2.182 ppb	94.516 %	0.000 ppb	-0.001 ppb	96.389 %	0.030 ppb
Concentration per Run 3	18.206 ppb	0.091 ppb	256.822 ppb	2.260 ppb	94.403 %	-0.001 ppb	-0.001 ppb	99.422 %	0.033 ppb
Concentration RSD	4.0 %	496.6 %	1.9 %	10.6 %	0.1 %	1,605.5 %	7,227.2 %	4.9 %	24.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	221.809 ppb	101.627 %	101.071 %	0.014 ppb	0.125 ppb	93.792 %
Concentration per Run 1	223.517 ppb	102.813 %	102.270 %	-0.003 ppb	0.117 ppb	96.816 %
Concentration per Run 2	224.829 ppb	101.571 %	100.987 %	0.021 ppb	0.132 ppb	90.927 %
Concentration per Run 3	217.083 ppb	100.498 %	99.955 %	0.025 ppb	0.125 ppb	93.635 %
Concentration RSD	1.9 %	1.1 %	1.1 %	106.0 %	6.3 %	3.1 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index: 38
Analysis label: L2371128-11 6020TL
Analysis started at: 12/6/2023 5:48:31 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 1
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.420 %	85.400 %	0.017 ppb	535,523.972 ppb	125,066.065 ppb	162.042 ppb	8,575.885 ppb	273,830.927 ppb	113.721 %
Concentration per Run 1	101.554 %	84.690 %	0.014 ppb	540,065.104 ppb	125,646.944 ppb	160.991 ppb	9,073.933 ppb	283,977.161 ppb	113.997 %
Concentration per Run 2	96.936 %	82.752 %	0.016 ppb	552,867.862 ppb	130,566.541 ppb	164.204 ppb	8,552.338 ppb	272,453.055 ppb	113.405 %
Concentration per Run 3	93.770 %	88.760 %	0.020 ppb	513,638.950 ppb	118,984.710 ppb	160.931 ppb	8,101.383 ppb	265,062.565 ppb	113.762 %
Concentration RSD	4.0 %	3.6 %	18.2 %	3.7 %	4.6 %	1.2 %	5.7 %	3.5 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.406 ppb	0.393 ppb	228.817 ppb	17,229.687 ppb	2.588 ppb	2.663 ppb	0.962 ppb	3.215 ppb	91.401 %
Concentration per Run 1	0.508 ppb	0.432 ppb	227.923 ppb	17,651.242 ppb	2.666 ppb	2.496 ppb	1.053 ppb	3.298 ppb	88.028 %
Concentration per Run 2	0.366 ppb	0.394 ppb	237.276 ppb	17,213.089 ppb	2.569 ppb	2.942 ppb	0.979 ppb	3.225 ppb	91.151 %
Concentration per Run 3	0.344 ppb	0.353 ppb	221.251 ppb	16,824.730 ppb	2.529 ppb	2.551 ppb	0.855 ppb	3.123 ppb	95.023 %
Concentration RSD	21.9 %	10.0 %	3.5 %	2.4 %	2.7 %	9.1 %	10.4 %	2.7 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	38.510 ppb	0.571 ppb	3,579.050 ppb	2.804 ppb	84.536 %	0.000 ppb	0.005 ppb	91.518 %	0.032 ppb
Concentration per Run 1	40.038 ppb	0.432 ppb	3,480.947 ppb	2.788 ppb	83.126 %	-0.003 ppb	0.003 ppb	90.480 %	0.020 ppb
Concentration per Run 2	38.831 ppb	0.709 ppb	3,442.770 ppb	2.782 ppb	83.923 %	0.002 ppb	0.003 ppb	91.553 %	0.028 ppb
Concentration per Run 3	36.662 ppb	0.571 ppb	3,813.433 ppb	2.843 ppb	86.558 %	0.002 ppb	0.007 ppb	92.521 %	0.049 ppb
Concentration RSD	4.4 %	24.3 %	5.7 %	1.2 %	2.1 %	1,194.7 %	53.9 %	1.1 %	47.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	2,618.205 ppb	96.144 %	96.853 %	0.018 ppb	0.257 ppb	85.932 %
Concentration per Run 1	2,607.953 ppb	94.697 %	95.835 %	0.000 ppb	0.245 ppb	91.938 %
Concentration per Run 2	2,579.846 ppb	96.482 %	96.140 %	0.025 ppb	0.271 ppb	82.566 %
Concentration per Run 3	2,666.817 ppb	97.252 %	98.584 %	0.029 ppb	0.256 ppb	83.292 %
Concentration RSD	1.7 %	1.4 %	1.6 %	84.9 %	5.2 %	6.1 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	39	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-12 6020TL	Rack	2		
Analysis started at:	12/6/2023 5:53:09 PM	Vial	2		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.729 %	92.183 %	0.000 ppb	148,646.929 ppb	37,860.056 ppb	21.388 ppb	7,460.121 ppb	80,097.802 ppb	115.865 %
Concentration per Run 1	108.295 %	81.977 %	-0.004 ppb	162,128.890 ppb	41,641.949 ppb	21.174 ppb	7,738.044 ppb	83,192.712 ppb	117.112 %
Concentration per Run 2	105.771 %	99.612 %	0.000 ppb	138,140.889 ppb	35,524.360 ppb	21.934 ppb	7,173.548 ppb	78,487.654 ppb	115.292 %
Concentration per Run 3	103.120 %	94.961 %	0.002 ppb	145,671.009 ppb	36,413.860 ppb	21.057 ppb	7,468.769 ppb	78,613.041 ppb	115.192 %
Concentration RSD	2.4 %	9.9 %	595.6 %	8.3 %	8.7 %	2.2 %	3.8 %	3.3 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.138 ppb	0.247 ppb	834.495 ppb	4,955.541 ppb	0.418 ppb	0.993 ppb	0.150 ppb	1.826 ppb	100.045 %
Concentration per Run 1	0.140 ppb	0.246 ppb	859.694 ppb	5,170.832 ppb	0.413 ppb	0.955 ppb	0.170 ppb	1.807 ppb	98.311 %
Concentration per Run 2	0.124 ppb	0.257 ppb	810.397 ppb	4,905.346 ppb	0.431 ppb	1.022 ppb	0.148 ppb	1.820 ppb	100.374 %
Concentration per Run 3	0.148 ppb	0.238 ppb	833.395 ppb	4,790.446 ppb	0.411 ppb	1.003 ppb	0.133 ppb	1.851 ppb	101.449 %
Concentration RSD	8.8 %	3.9 %	3.0 %	3.9 %	2.6 %	3.4 %	12.6 %	1.2 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	2.998 ppb	-0.025 ppb	1,917.794 ppb	1.179 ppb	92.833 %	-0.002 ppb	0.003 ppb	99.573 %	0.003 ppb
Concentration per Run 1	2.905 ppb	0.003 ppb	1,914.717 ppb	1.078 ppb	90.333 %	-0.002 ppb	0.003 ppb	99.605 %	0.014 ppb
Concentration per Run 2	3.113 ppb	-0.061 ppb	1,922.391 ppb	1.241 ppb	93.867 %	-0.001 ppb	0.007 ppb	99.201 %	0.001 ppb
Concentration per Run 3	2.975 ppb	-0.017 ppb	1,916.272 ppb	1.219 ppb	94.298 %	-0.002 ppb	0.001 ppb	99.913 %	-0.004 ppb
Concentration RSD	3.5 %	133.1 %	0.2 %	7.5 %	2.3 %	29.0 %	90.6 %	0.4 %	267.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	128.478 ppb	101.681 %	101.458 %	0.002 ppb	0.106 ppb	89.226 %
Concentration per Run 1	130.977 ppb	98.003 %	102.392 %	-0.011 ppb	0.105 ppb	91.763 %
Concentration per Run 2	129.553 ppb	102.674 %	100.991 %	0.007 ppb	0.109 ppb	87.521 %
Concentration per Run 3	124.905 ppb	104.368 %	100.991 %	0.011 ppb	0.104 ppb	88.394 %
Concentration RSD	2.5 %	3.2 %	0.8 %	513.6 %	2.6 %	2.5 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	40	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-13 6020TL	Rack	2		
Analysis started at:	12/6/2023 5:57:48 PM	Vial	3		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.268 %	91.667 %	0.005 ppb	64,040.486 ppb	69,116.596 ppb	86.480 ppb	1,619.791 ppb	158,563.642 ppb	111.791 %
Concentration per Run 1	108.284 %	91.279 %	0.003 ppb	63,825.023 ppb	69,226.741 ppb	85.884 ppb	1,609.568 ppb	156,660.199 ppb	112.996 %
Concentration per Run 2	105.371 %	92.636 %	0.004 ppb	64,115.324 ppb	69,477.536 ppb	92.739 ppb	1,639.987 ppb	159,964.622 ppb	111.461 %
Concentration per Run 3	102.148 %	91.085 %	0.008 ppb	64,181.113 ppb	68,645.510 ppb	80.817 ppb	1,609.819 ppb	159,066.105 ppb	110.916 %
Concentration RSD	2.9 %	0.9 %	46.8 %	0.3 %	0.6 %	6.9 %	1.1 %	1.1 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.103 ppb	0.284 ppb	50.335 ppb	1,763.992 ppb	0.451 ppb	0.595 ppb	0.312 ppb	2.566 ppb	98.118 %
Concentration per Run 1	0.082 ppb	0.279 ppb	48.476 ppb	1,718.696 ppb	0.440 ppb	0.614 ppb	0.392 ppb	2.658 ppb	96.280 %
Concentration per Run 2	0.140 ppb	0.296 ppb	50.492 ppb	1,789.061 ppb	0.465 ppb	0.647 ppb	0.248 ppb	2.466 ppb	98.429 %
Concentration per Run 3	0.086 ppb	0.279 ppb	52.036 ppb	1,784.218 ppb	0.449 ppb	0.524 ppb	0.296 ppb	2.574 ppb	99.644 %
Concentration RSD	31.2 %	3.4 %	3.5 %	2.2 %	2.8 %	10.7 %	23.6 %	3.8 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.057 ppb	0.057 ppb	314.306 ppb	0.624 ppb	91.053 %	0.001 ppb	0.003 ppb	96.522 %	0.029 ppb
Concentration per Run 1	4.113 ppb	0.140 ppb	310.956 ppb	0.661 ppb	89.567 %	0.001 ppb	-0.001 ppb	92.322 %	0.028 ppb
Concentration per Run 2	3.943 ppb	0.155 ppb	316.502 ppb	0.662 ppb	90.425 %	0.000 ppb	0.007 ppb	95.417 %	0.030 ppb
Concentration per Run 3	4.114 ppb	-0.123 ppb	315.459 ppb	0.550 ppb	93.168 %	0.001 ppb	0.003 ppb	101.829 %	0.030 ppb
Concentration RSD	2.4 %	272.8 %	0.9 %	10.3 %	2.1 %	49.4 %	149.5 %	5.0 %	4.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	55.636 ppb	98.817 %	98.670 %	0.009 ppb	0.129 ppb	89.335 %
Concentration per Run 1	55.756 ppb	96.062 %	97.349 %	-0.001 ppb	0.124 ppb	90.850 %
Concentration per Run 2	55.833 ppb	98.609 %	97.808 %	0.013 ppb	0.127 ppb	88.904 %
Concentration per Run 3	55.318 ppb	101.780 %	100.854 %	0.015 ppb	0.136 ppb	88.253 %
Concentration RSD	0.5 %	2.9 %	1.9 %	92.8 %	5.0 %	1.5 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	41	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 6:02:26 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	105.022 %	98.385 %	60.606 ppb	6,980.822 ppb	5,929.178 ppb	60.530 ppb	5,898.005 ppb	5,759.965 ppb	110.990 %
Concentration per Run 1	108.110 %	91.667 %	60.323 ppb	6,612.200 ppb	6,278.063 ppb	63.758 ppb	6,136.463 ppb	6,079.333 ppb	112.436 %
Concentration per Run 2	104.742 %	100.194 %	60.712 ppb	7,261.523 ppb	5,775.124 ppb	57.745 ppb	5,840.197 ppb	5,558.453 ppb	110.057 %
Concentration per Run 3	102.214 %	103.295 %	60.781 ppb	7,068.743 ppb	5,734.348 ppb	60.089 ppb	5,717.357 ppb	5,642.109 ppb	110.476 %
Recovery Percentage 1			101.009 %	116.347 %	98.820 %	100.884 %	98.300 %	95.999 %	
Concentration RSD	2.8 %	6.1 %	0.4 %	4.8 %	5.1 %	5.0 %	3.7 %	4.9 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	55.891 ppb	55.203 ppb	56.839 ppb	5,988.466 ppb	60.190 ppb	60.260 ppb	60.340 ppb	58.841 ppb	99.613 %
Concentration per Run 1	58.621 ppb	56.907 ppb	58.113 ppb	6,261.615 ppb	62.579 ppb	62.751 ppb	62.070 ppb	58.987 ppb	96.060 %
Concentration per Run 2	55.767 ppb	54.627 ppb	55.899 ppb	5,764.011 ppb	59.098 ppb	59.197 ppb	60.257 ppb	58.935 ppb	99.536 %
Concentration per Run 3	53.286 ppb	54.075 ppb	56.506 ppb	5,939.772 ppb	58.893 ppb	58.833 ppb	58.693 ppb	58.602 ppb	103.241 %
Recovery Percentage 1	93.152 %	92.005 %	94.732 %	99.808 %	100.317 %	100.434 %	100.566 %	98.068 %	
Concentration RSD	4.8 %	2.7 %	2.0 %	4.2 %	3.4 %	3.6 %	2.8 %	0.4 %	3.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.533 ppb	60.589 ppb	56.038 ppb	58.723 ppb	96.715 %	60.327 ppb	60.341 ppb	96.305 %	61.646 ppb
Concentration per Run 1	62.432 ppb	58.200 ppb	56.296 ppb	58.619 ppb	94.257 %	61.146 ppb	60.870 ppb	94.910 %	61.534 ppb
Concentration per Run 2	58.024 ppb	62.925 ppb	56.385 ppb	59.690 ppb	97.012 %	60.036 ppb	59.713 ppb	95.646 %	61.554 ppb
Concentration per Run 3	58.144 ppb	60.642 ppb	55.434 ppb	57.860 ppb	98.877 %	59.800 ppb	60.442 ppb	98.358 %	61.849 ppb
Recovery Percentage 1	99.222 %	100.981 %	93.397 %	97.871 %		100.546 %	100.569 %		102.743 %
Concentration RSD	4.2 %	3.9 %	0.9 %	1.6 %	2.4 %	1.2 %	1.0 %	1.9 %	0.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	57.986 ppb	98.879 %	97.891 %	57.697 ppb	58.843 ppb	94.457 %
Concentration per Run 1	58.622 ppb	94.844 %	94.736 %	54.603 ppb	55.746 ppb	98.148 %
Concentration per Run 2	56.324 ppb	100.807 %	98.634 %	58.386 ppb	59.490 ppb	92.204 %
Concentration per Run 3	59.012 ppb	100.985 %	100.302 %	60.102 ppb	61.293 ppb	93.020 %
Recovery Percentage 1	96.643 %			96.162 %	98.071 %	
Concentration RSD	2.5 %	3.5 %	2.9 %	4.9 %	4.8 %	3.4 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	42	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 6:07:08 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.697 %	92.829 %	0.009 ppb	37.947 ppb	1.316 ppb	0.638 ppb	0.116 ppb	12.152 ppb	104.813 %
Concentration per Run 1	106.926 %	87.791 %	0.007 ppb	49.261 ppb	1.052 ppb	0.192 ppb	12.916 ppb	21.885 ppb	105.543 %
Concentration per Run 2	102.397 %	94.767 %	0.011 ppb	35.172 ppb	0.909 ppb	1.154 ppb	-7.778 ppb	5.720 ppb	103.881 %
Concentration per Run 3	101.766 %	95.930 %	0.010 ppb	29.409 ppb	1.989 ppb	0.569 ppb	-4.788 ppb	8.852 ppb	105.015 %
Recovery Percentage 1			1.856 %	37.947 %	1.881 %	6.385 %	0.116 %	12.152 %	
Concentration RSD	2.7 %	4.7 %	24.6 %	26.9 %	44.6 %	75.9 %	9,610.8 %	70.5 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.014 ppb	0.025 ppb	0.003 ppb	12.135 ppb	0.001 ppb	0.075 ppb	0.021 ppb	-0.317 ppb	96.940 %
Concentration per Run 1	-0.031 ppb	0.019 ppb	-0.058 ppb	14.451 ppb	0.002 ppb	0.099 ppb	0.008 ppb	-0.337 ppb	92.174 %
Concentration per Run 2	0.012 ppb	0.069 ppb	0.031 ppb	11.928 ppb	0.006 ppb	0.038 ppb	0.021 ppb	-0.268 ppb	96.497 %
Concentration per Run 3	-0.021 ppb	-0.013 ppb	0.037 ppb	10.025 ppb	-0.003 ppb	0.087 ppb	0.033 ppb	-0.345 ppb	102.150 %
Recovery Percentage 1	-0.274 %	2.481 %	0.322 %	24.270 %	0.281 %	3.730 %	2.078 %	-6.334 %	
Concentration RSD	163.8 %	165.7 %	1,655.7 %	18.3 %	330.7 %	43.5 %	58.1 %	13.5 %	5.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.177 ppb	0.285 ppb	0.023 ppb	0.637 ppb	98.073 %	0.001 ppb	0.001 ppb	97.349 %	0.018 ppb
Concentration per Run 1	0.277 ppb	0.158 ppb	0.017 ppb	0.672 ppb	95.222 %	0.001 ppb	0.001 ppb	98.138 %	0.015 ppb
Concentration per Run 2	0.293 ppb	0.451 ppb	0.015 ppb	0.630 ppb	98.945 %	0.003 ppb	0.003 ppb	95.743 %	0.008 ppb
Concentration per Run 3	-0.039 ppb	0.245 ppb	0.037 ppb	0.609 ppb	100.053 %	0.001 ppb	-0.001 ppb	98.167 %	0.032 ppb
Recovery Percentage 1	35.347 %	5.692 %	0.229 %	31.842 %		0.348 %	0.361 %		0.461 %
Concentration RSD	105.9 %	52.9 %	52.0 %	5.0 %	2.6 %	82.3 %	284.3 %	1.4 %	66.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.014 ppb	99.163 %	96.353 %	0.501 ppb	0.015 ppb	94.671 %
Concentration per Run 1	0.001 ppb	94.620 %	94.182 %	0.382 ppb	0.016 ppb	96.632 %
Concentration per Run 2	0.029 ppb	101.077 %	96.605 %	0.583 ppb	0.015 ppb	93.422 %
Concentration per Run 3	0.014 ppb	101.794 %	98.271 %	0.537 ppb	0.014 ppb	93.958 %
Recovery Percentage 1	2.872 %			50.051 %	1.484 %	
Concentration RSD	97.8 %	4.0 %	2.1 %	21.1 %	4.6 %	1.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	43	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 6:35:25 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.956 %	102.067 %	59.730 ppb	6,599.474 ppb	5,872.808 ppb	59.230 ppb	5,836.310 ppb	5,785.080 ppb	117.464 %
Concentration per Run 1	109.089 %	105.814 %	59.933 ppb	7,216.822 ppb	5,855.699 ppb	57.957 ppb	5,653.004 ppb	5,739.203 ppb	117.443 %
Concentration per Run 2	107.110 %	100.969 %	59.469 ppb	6,178.145 ppb	5,769.575 ppb	59.134 ppb	5,950.303 ppb	5,878.811 ppb	116.786 %
Concentration per Run 3	104.669 %	99.419 %	59.787 ppb	6,403.456 ppb	5,993.151 ppb	60.599 ppb	5,905.622 ppb	5,737.226 ppb	118.163 %
Recovery Percentage 1			99.549 %	109.991 %	97.880 %	98.717 %	97.272 %	96.418 %	
Concentration RSD	2.1 %	3.3 %	0.4 %	8.3 %	1.9 %	2.2 %	2.7 %	1.4 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.159 ppb	57.375 ppb	58.624 ppb	5,982.803 ppb	59.958 ppb	59.551 ppb	60.263 ppb	58.222 ppb	103.987 %
Concentration per Run 1	57.797 ppb	58.470 ppb	56.724 ppb	6,072.538 ppb	61.430 ppb	60.371 ppb	61.447 ppb	60.159 ppb	98.812 %
Concentration per Run 2	57.204 ppb	57.530 ppb	59.257 ppb	6,005.106 ppb	60.161 ppb	60.209 ppb	60.377 ppb	58.000 ppb	105.306 %
Concentration per Run 3	56.477 ppb	56.123 ppb	59.891 ppb	5,870.764 ppb	58.282 ppb	58.073 ppb	58.965 ppb	56.508 ppb	107.842 %
Recovery Percentage 1	95.265 %	95.624 %	97.706 %	99.713 %	99.929 %	99.252 %	100.438 %	97.037 %	
Concentration RSD	1.2 %	2.1 %	2.9 %	1.7 %	2.6 %	2.2 %	2.1 %	3.2 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	58.289 ppb	57.051 ppb	56.182 ppb	57.852 ppb	101.370 %	60.107 ppb	59.109 ppb	105.379 %	58.080 ppb
Concentration per Run 1	60.030 ppb	55.624 ppb	56.921 ppb	57.351 ppb	98.532 %	60.397 ppb	58.425 ppb	105.817 %	58.526 ppb
Concentration per Run 2	56.970 ppb	60.139 ppb	56.816 ppb	57.574 ppb	100.908 %	59.792 ppb	59.351 ppb	106.146 %	56.256 ppb
Concentration per Run 3	57.868 ppb	55.389 ppb	54.809 ppb	58.629 ppb	104.670 %	60.131 ppb	59.553 ppb	104.172 %	59.457 ppb
Recovery Percentage 1	97.149 %	95.084 %	93.637 %	96.420 %		100.178 %	98.516 %		96.800 %
Concentration RSD	2.7 %	4.7 %	2.1 %	1.2 %	3.1 %	0.5 %	1.0 %	1.0 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	54.858 ppb	104.648 %	105.196 %	58.623 ppb	59.287 ppb	115.327 %
Concentration per Run 1	53.036 ppb	102.389 %	104.482 %	58.745 ppb	60.952 ppb	134.305 %
Concentration per Run 2	54.797 ppb	106.586 %	106.629 %	57.920 ppb	57.035 ppb	107.808 %
Concentration per Run 3	56.740 ppb	104.969 %	104.478 %	59.205 ppb	59.873 ppb	103.869 %
Recovery Percentage 1	91.430 %			97.705 %	98.812 %	
Concentration RSD	3.4 %	2.0 %	1.2 %	1.1 %	3.4 %	14.4 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	44	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 6:40:06 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.531 %	95.349 %	0.006 ppb	11.507 ppb	0.518 ppb	0.294 ppb	-0.291 ppb	-1.623 ppb	106.960 %
Concentration per Run 1	106.488 %	93.023 %	0.008 ppb	11.683 ppb	0.811 ppb	0.018 ppb	7.417 ppb	-2.674 ppb	106.858 %
Concentration per Run 2	104.229 %	100.581 %	0.007 ppb	7.884 ppb	-0.020 ppb	0.567 ppb	-4.334 ppb	-3.999 ppb	106.772 %
Concentration per Run 3	102.875 %	92.442 %	0.004 ppb	14.953 ppb	0.764 ppb	0.296 ppb	-3.956 ppb	1.804 ppb	107.250 %
Recovery Percentage 1			1.261 %	11.507 %	0.741 %	2.937 %	-0.291 %	-1.623 %	
Concentration RSD	1.7 %	4.8 %	32.4 %	30.7 %	90.1 %	93.4 %	2,294.5 %	187.4 %	0.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.050 ppb	0.025 ppb	-0.011 ppb	7.873 ppb	0.000 ppb	0.041 ppb	0.014 ppb	-0.420 ppb	98.618 %
Concentration per Run 1	-0.064 ppb	0.063 ppb	-0.005 ppb	7.798 ppb	-0.001 ppb	0.042 ppb	0.023 ppb	-0.419 ppb	92.585 %
Concentration per Run 2	-0.043 ppb	-0.031 ppb	-0.052 ppb	8.141 ppb	0.004 ppb	0.043 ppb	0.015 ppb	-0.337 ppb	100.380 %
Concentration per Run 3	-0.043 ppb	0.043 ppb	0.025 ppb	7.679 ppb	-0.002 ppb	0.038 ppb	0.004 ppb	-0.506 ppb	102.891 %
Recovery Percentage 1	-1.001 %	2.505 %	-1.063 %	15.745 %	0.024 %	2.044 %	1.437 %	-8.409 %	
Concentration RSD	23.9 %	197.4 %	365.2 %	3.0 %	2,713.3 %	6.9 %	67.0 %	20.1 %	5.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.087 ppb	0.371 ppb	-0.001 ppb	0.695 ppb	99.485 %	0.006 ppb	-0.001 ppb	97.302 %	0.017 ppb
Concentration per Run 1	0.134 ppb	0.352 ppb	0.002 ppb	0.686 ppb	95.131 %	0.009 ppb	-0.001 ppb	94.879 %	0.012 ppb
Concentration per Run 2	0.052 ppb	0.366 ppb	-0.007 ppb	0.756 ppb	101.419 %	0.004 ppb	0.001 ppb	98.084 %	0.012 ppb
Concentration per Run 3	0.073 ppb	0.396 ppb	0.002 ppb	0.643 ppb	101.904 %	0.005 ppb	-0.001 ppb	98.944 %	0.027 ppb
Recovery Percentage 1	17.306 %	7.429 %	-0.009 %	34.739 %		1.500 %	-0.330 %		0.425 %
Concentration RSD	49.1 %	6.1 %	597.7 %	8.2 %	3.8 %	38.1 %	175.2 %	2.2 %	51.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.024 ppb	98.924 %	100.375 %	0.544 ppb	0.015 ppb	99.075 %
Concentration per Run 1	0.001 ppb	95.772 %	97.728 %	0.436 ppb	0.017 ppb	100.025 %
Concentration per Run 2	0.014 ppb	99.401 %	102.953 %	0.624 ppb	0.015 ppb	97.484 %
Concentration per Run 3	0.056 ppb	101.599 %	100.445 %	0.573 ppb	0.012 ppb	99.716 %
Recovery Percentage 1	4.709 %			54.442 %	1.454 %	
Concentration RSD	121.5 %	3.0 %	2.6 %	17.8 %	16.3 %	1.4 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	45	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-14 6020TL	Rack	2		
Analysis started at:	12/6/2023 6:49:52 PM	Vial	4		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.298 %	93.540 %	0.008 ppb	168,029.613 ppb	42,984.903 ppb	59.573 ppb	2,020.288 ppb	129,472.055 ppb	118.206 %
Concentration per Run 1	109.747 %	98.450 %	0.006 ppb	157,599.921 ppb	40,093.959 ppb	51.680 ppb	1,938.566 ppb	129,807.491 ppb	119.252 %
Concentration per Run 2	106.205 %	91.667 %	0.007 ppb	170,518.009 ppb	44,013.360 ppb	55.752 ppb	2,104.415 ppb	129,284.531 ppb	119.643 %
Concentration per Run 3	102.941 %	90.504 %	0.013 ppb	175,970.908 ppb	44,847.389 ppb	71.286 ppb	2,017.884 ppb	129,324.142 ppb	115.724 %
Concentration RSD	3.2 %	4.6 %	41.8 %	5.6 %	5.9 %	17.4 %	4.1 %	0.2 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.194 ppb	0.282 ppb	749.788 ppb	1,962.169 ppb	1.332 ppb	2.510 ppb	0.385 ppb	1.228 ppb	101.219 %
Concentration per Run 1	0.149 ppb	0.300 ppb	723.246 ppb	1,942.624 ppb	1.427 ppb	2.528 ppb	0.364 ppb	1.225 ppb	98.935 %
Concentration per Run 2	0.251 ppb	0.238 ppb	759.346 ppb	1,940.966 ppb	1.261 ppb	2.508 ppb	0.371 ppb	1.220 ppb	102.873 %
Concentration per Run 3	0.181 ppb	0.308 ppb	766.772 ppb	2,002.918 ppb	1.308 ppb	2.495 ppb	0.419 ppb	1.239 ppb	101.848 %
Concentration RSD	27.0 %	13.6 %	3.1 %	1.8 %	6.4 %	0.7 %	7.7 %	0.8 %	2.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	8.385 ppb	0.131 ppb	575.138 ppb	0.747 ppb	94.508 %	-0.001 ppb	0.010 ppb	99.781 %	0.008 ppb
Concentration per Run 1	8.370 ppb	0.087 ppb	583.009 ppb	0.795 ppb	92.662 %	-0.001 ppb	0.009 ppb	96.847 %	0.002 ppb
Concentration per Run 2	8.311 ppb	0.208 ppb	567.171 ppb	0.683 ppb	95.880 %	-0.001 ppb	0.015 ppb	98.911 %	0.008 ppb
Concentration per Run 3	8.475 ppb	0.099 ppb	575.235 ppb	0.764 ppb	94.981 %	-0.001 ppb	0.005 ppb	103.584 %	0.014 ppb
Concentration RSD	1.0 %	50.7 %	1.4 %	7.7 %	1.8 %	28.7 %	54.3 %	3.5 %	78.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	504.493 ppb	102.247 %	105.253 %	0.098 ppb	0.151 ppb	114.164 %
Concentration per Run 1	516.193 ppb	100.724 %	103.834 %	0.059 ppb	0.133 ppb	130.258 %
Concentration per Run 2	501.074 ppb	104.292 %	104.546 %	0.111 ppb	0.152 ppb	109.938 %
Concentration per Run 3	496.213 ppb	101.724 %	107.379 %	0.123 ppb	0.169 ppb	102.296 %
Concentration RSD	2.1 %	1.8 %	1.8 %	35.1 %	12.0 %	12.7 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index: 46
Analysis label: L2371128-15 6020TL
Analysis started at: 12/6/2023 6:54:31 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 5
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.565 %	87.984 %	0.021 ppb	535,151.090 ppb	30,592.729 ppb	283.439 ppb	2,367.589 ppb	97,596.143 ppb	115.026 %
Concentration per Run 1	105.671 %	86.822 %	0.022 ppb	529,848.653 ppb	30,375.863 ppb	280.360 ppb	2,402.765 ppb	98,200.980 ppb	115.975 %
Concentration per Run 2	102.913 %	91.473 %	0.023 ppb	508,873.209 ppb	29,444.121 ppb	274.056 ppb	2,262.963 ppb	94,573.974 ppb	115.588 %
Concentration per Run 3	99.111 %	85.659 %	0.018 ppb	566,731.408 ppb	31,958.203 ppb	295.902 ppb	2,437.039 ppb	100,013.475 ppb	113.516 %
Concentration RSD	3.2 %	3.5 %	11.1 %	5.5 %	4.2 %	4.0 %	3.9 %	2.8 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.536 ppb	0.553 ppb	418.328 ppb	3,347.442 ppb	0.259 ppb	0.647 ppb	0.937 ppb	1.540 ppb	96.261 %
Concentration per Run 1	0.483 ppb	0.560 ppb	418.669 ppb	3,392.322 ppb	0.256 ppb	0.708 ppb	0.959 ppb	1.595 ppb	92.694 %
Concentration per Run 2	0.511 ppb	0.541 ppb	406.924 ppb	3,216.989 ppb	0.237 ppb	0.590 ppb	0.954 ppb	1.443 ppb	98.762 %
Concentration per Run 3	0.615 ppb	0.560 ppb	429.390 ppb	3,433.015 ppb	0.286 ppb	0.643 ppb	0.900 ppb	1.581 ppb	97.329 %
Concentration RSD	13.0 %	2.0 %	2.7 %	3.4 %	9.5 %	9.2 %	3.5 %	5.5 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.341 ppb	0.513 ppb	2,456.833 ppb	0.841 ppb	87.043 %	-0.001 ppb	0.004 ppb	94.546 %	0.012 ppb
Concentration per Run 1	1.461 ppb	0.543 ppb	2,445.022 ppb	0.789 ppb	84.297 %	-0.001 ppb	0.008 ppb	91.887 %	0.012 ppb
Concentration per Run 2	1.146 ppb	0.445 ppb	2,403.041 ppb	0.758 ppb	87.238 %	0.001 ppb	0.001 ppb	93.554 %	0.005 ppb
Concentration per Run 3	1.416 ppb	0.551 ppb	2,522.435 ppb	0.976 ppb	89.595 %	-0.002 ppb	0.005 ppb	98.196 %	0.019 ppb
Concentration RSD	12.7 %	11.4 %	2.5 %	14.0 %	3.0 %	152.1 %	76.2 %	3.5 %	57.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	262.967 ppb	98.950 %	100.521 %	0.061 ppb	0.629 ppb	89.364 %
Concentration per Run 1	265.122 ppb	95.195 %	92.842 %	0.022 ppb	0.598 ppb	92.639 %
Concentration per Run 2	263.671 ppb	98.758 %	102.895 %	0.075 ppb	0.627 ppb	87.215 %
Concentration per Run 3	260.109 ppb	102.899 %	105.825 %	0.086 ppb	0.661 ppb	88.238 %
Concentration RSD	1.0 %	3.9 %	6.8 %	55.5 %	5.0 %	3.2 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	47	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-16 6020TL	Rack	2		
Analysis started at:	12/6/2023 7:01:28 PM	Vial	6		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	108.986 %	91.473 %	0.003 ppb	459,704.521 ppb	27,523.981 ppb	13.792 ppb	2,234.529 ppb	100,056.328 ppb	118.149 %
Concentration per Run 1	111.827 %	92.054 %	0.002 ppb	463,152.003 ppb	27,881.640 ppb	15.600 ppb	2,345.823 ppb	104,216.372 ppb	118.468 %
Concentration per Run 2	109.426 %	86.240 %	0.006 ppb	481,424.908 ppb	28,258.514 ppb	12.321 ppb	2,296.966 ppb	102,344.202 ppb	118.329 %
Concentration per Run 3	105.706 %	96.124 %	0.000 ppb	434,536.652 ppb	26,431.789 ppb	13.455 ppb	2,060.797 ppb	93,608.409 ppb	117.650 %
Concentration RSD	2.8 %	5.4 %	129.6 %	5.1 %	3.5 %	12.1 %	6.8 %	5.7 %	0.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.038 ppb	0.302 ppb	695.043 ppb	537.053 ppb	1.684 ppb	2.353 ppb	0.586 ppb	0.208 ppb	90.780 %
Concentration per Run 1	0.034 ppb	0.385 ppb	723.108 ppb	543.084 ppb	1.767 ppb	2.512 ppb	0.563 ppb	0.198 ppb	88.844 %
Concentration per Run 2	0.041 ppb	0.226 ppb	681.437 ppb	536.890 ppb	1.639 ppb	2.485 ppb	0.590 ppb	0.222 ppb	93.263 %
Concentration per Run 3	0.039 ppb	0.296 ppb	680.582 ppb	531.186 ppb	1.646 ppb	2.061 ppb	0.607 ppb	0.205 ppb	90.233 %
Concentration RSD	9.4 %	26.4 %	3.5 %	1.1 %	4.3 %	10.7 %	3.7 %	5.9 %	2.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.934 ppb	-0.009 ppb	3,577.474 ppb	1.721 ppb	87.588 %	0.001 ppb	0.007 ppb	94.670 %	0.063 ppb
Concentration per Run 1	2.065 ppb	-0.068 ppb	3,656.929 ppb	1.754 ppb	87.084 %	0.001 ppb	0.007 ppb	95.248 %	0.047 ppb
Concentration per Run 2	1.821 ppb	0.165 ppb	3,516.466 ppb	1.655 ppb	88.404 %	0.003 ppb	0.007 ppb	94.607 %	0.070 ppb
Concentration per Run 3	1.915 ppb	-0.125 ppb	3,559.028 ppb	1.753 ppb	87.276 %	-0.001 ppb	0.005 ppb	94.155 %	0.072 ppb
Concentration RSD	6.4 %	1,638.5 %	2.0 %	3.3 %	0.8 %	155.5 %	18.5 %	0.6 %	22.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	185.689 ppb	98.054 %	98.004 %	0.047 ppb	0.092 ppb	110.420 %
Concentration per Run 1	185.058 ppb	98.422 %	98.964 %	0.020 ppb	0.075 ppb	133.595 %
Concentration per Run 2	186.496 ppb	97.769 %	98.226 %	0.060 ppb	0.098 ppb	103.215 %
Concentration per Run 3	185.512 ppb	97.973 %	96.821 %	0.060 ppb	0.103 ppb	94.451 %
Concentration RSD	0.4 %	0.3 %	1.1 %	48.9 %	16.0 %	18.6 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	48	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-17 6020TL	Rack	2		
Analysis started at:	12/6/2023 7:06:06 PM	Vial	7		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.464 %	86.434 %	0.007 ppb	201,950.285 ppb	42,984.990 ppb	31.264 ppb	2,076.311 ppb	131,722.033 ppb	114.421 %
Concentration per Run 1	114.718 %	83.139 %	0.017 ppb	207,680.622 ppb	44,514.025 ppb	34.516 ppb	2,207.449 ppb	135,398.980 ppb	115.908 %
Concentration per Run 2	110.241 %	85.659 %	0.002 ppb	206,377.584 ppb	43,396.199 ppb	31.321 ppb	1,967.937 ppb	127,805.059 ppb	113.448 %
Concentration per Run 3	109.433 %	90.504 %	0.000 ppb	191,792.650 ppb	41,044.745 ppb	27.954 ppb	2,053.547 ppb	131,962.059 ppb	113.908 %
Concentration RSD	2.6 %	4.3 %	138.9 %	4.4 %	4.1 %	10.5 %	5.8 %	2.9 %	1.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.035 ppb	0.281 ppb	46.001 ppb	1,193.473 ppb	0.094 ppb	0.233 ppb	0.173 ppb	0.184 ppb	94.592 %
Concentration per Run 1	0.070 ppb	0.250 ppb	47.393 ppb	1,234.708 ppb	0.098 ppb	0.273 ppb	0.182 ppb	0.160 ppb	90.348 %
Concentration per Run 2	0.001 ppb	0.334 ppb	45.035 ppb	1,230.023 ppb	0.111 ppb	0.261 ppb	0.232 ppb	0.216 ppb	93.612 %
Concentration per Run 3	0.033 ppb	0.259 ppb	45.576 ppb	1,115.689 ppb	0.074 ppb	0.164 ppb	0.103 ppb	0.174 ppb	99.815 %
Concentration RSD	100.0 %	16.5 %	2.7 %	5.6 %	19.9 %	25.7 %	37.6 %	15.8 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.733 ppb	-0.004 ppb	423.540 ppb	1.852 ppb	87.781 %	-0.001 ppb	0.002 ppb	93.253 %	0.000 ppb
Concentration per Run 1	1.955 ppb	-0.007 ppb	434.804 ppb	1.884 ppb	86.986 %	0.001 ppb	0.001 ppb	92.110 %	0.003 ppb
Concentration per Run 2	1.656 ppb	0.124 ppb	416.785 ppb	1.785 ppb	86.267 %	-0.003 ppb	-0.001 ppb	90.851 %	-0.008 ppb
Concentration per Run 3	1.587 ppb	-0.130 ppb	419.033 ppb	1.888 ppb	90.090 %	-0.001 ppb	0.005 ppb	96.799 %	0.005 ppb
Concentration RSD	11.3 %	2,869.3 %	2.3 %	3.2 %	2.3 %	146.1 %	212.5 %	3.4 %	37,802.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	140.953 ppb	96.569 %	95.958 %	0.028 ppb	0.053 ppb	85.357 %
Concentration per Run 1	148.788 ppb	95.461 %	96.218 %	0.004 ppb	0.052 ppb	87.157 %
Concentration per Run 2	135.467 ppb	94.616 %	93.447 %	0.042 ppb	0.056 ppb	82.169 %
Concentration per Run 3	138.603 ppb	99.629 %	98.210 %	0.039 ppb	0.051 ppb	86.744 %
Concentration RSD	4.9 %	2.8 %	2.5 %	74.9 %	5.7 %	3.2 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	49	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	zwg1859957-2d10 6020TL	Rack	2		
Analysis started at:	12/6/2023 7:10:45 PM	Vial	11		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	114.712 %	94.703 %	5.192 ppb	1,469.147 ppb	1,166.020 ppb	218.608 ppb	1,082.683 ppb	1,232.785 ppb	113.844 %
Concentration per Run 1	117.901 %	99.419 %	5.112 ppb	1,381.570 ppb	1,153.929 ppb	221.742 ppb	1,094.393 ppb	1,215.094 ppb	115.634 %
Concentration per Run 2	115.215 %	92.248 %	5.156 ppb	1,468.625 ppb	1,146.732 ppb	217.321 ppb	1,083.549 ppb	1,181.087 ppb	114.109 %
Concentration per Run 3	111.019 %	92.442 %	5.307 ppb	1,557.245 ppb	1,197.401 ppb	216.762 ppb	1,070.106 ppb	1,302.174 ppb	111.789 %
Concentration RSD	3.0 %	4.3 %	2.0 %	6.0 %	2.4 %	1.2 %	1.1 %	5.1 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.461 ppb	19.065 ppb	52.644 ppb	123.651 ppb	53.112 ppb	51.841 ppb	26.917 ppb	53.451 ppb	92.657 %
Concentration per Run 1	48.785 ppb	19.025 ppb	51.698 ppb	126.649 ppb	54.999 ppb	54.147 ppb	27.636 ppb	55.655 ppb	86.988 %
Concentration per Run 2	47.678 ppb	19.033 ppb	53.417 ppb	123.726 ppb	54.521 ppb	52.447 ppb	27.998 ppb	54.143 ppb	88.622 %
Concentration per Run 3	45.920 ppb	19.139 ppb	52.815 ppb	120.577 ppb	49.817 ppb	48.931 ppb	25.118 ppb	50.554 ppb	102.362 %
Concentration RSD	3.0 %	0.3 %	1.7 %	2.5 %	5.4 %	5.1 %	5.8 %	4.9 %	9.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	13.276 ppb	12.397 ppb	101.035 ppb	100.856 ppb	95.105 %	5.153 ppb	5.388 ppb	96.525 %	40.089 ppb
Concentration per Run 1	14.254 ppb	13.123 ppb	105.314 ppb	103.842 ppb	93.551 %	5.319 ppb	5.509 ppb	94.433 %	41.202 ppb
Concentration per Run 2	13.669 ppb	12.743 ppb	99.783 ppb	101.268 ppb	94.022 %	5.103 ppb	5.516 ppb	93.440 %	39.975 ppb
Concentration per Run 3	11.906 ppb	11.325 ppb	98.007 ppb	97.457 ppb	97.742 %	5.037 ppb	5.139 ppb	101.702 %	39.091 ppb
Concentration RSD	9.2 %	7.6 %	3.8 %	3.2 %	2.4 %	2.9 %	4.0 %	4.7 %	2.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	191.441 ppb	97.906 %	96.812 %	12.229 ppb	53.991 ppb	94.448 %
Concentration per Run 1	197.009 ppb	95.666 %	95.967 %	11.964 ppb	52.219 ppb	96.705 %
Concentration per Run 2	187.567 ppb	97.541 %	95.098 %	12.375 ppb	54.936 ppb	92.513 %
Concentration per Run 3	189.748 ppb	100.512 %	99.370 %	12.347 ppb	54.819 ppb	94.125 %
Concentration RSD	2.6 %	2.5 %	2.3 %	1.9 %	2.8 %	2.2 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	50	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2370481-01d10 6020TL	Rack	2		
Analysis started at:	12/6/2023 7:16:40 PM	Vial	8		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	116.940 %	105.814 %	1.674 ppb	2,202.593 ppb	4,878.209 ppb	20,635.483 ppb	1,155.471 ppb	3,811.682 ppb	176.578 %
Concentration per Run 1	118.286 %	105.814 %	1.684 ppb	2,192.872 ppb	4,843.058 ppb	20,382.016 ppb	1,149.411 ppb	3,679.027 ppb	176.045 %
Concentration per Run 2	117.037 %	97.287 %	1.667 ppb	2,315.353 ppb	5,204.746 ppb	21,791.412 ppb	1,213.575 ppb	4,036.332 ppb	176.530 %
Concentration per Run 3	115.496 %	114.341 %	1.671 ppb	2,099.554 ppb	4,586.824 ppb	19,733.022 ppb	1,103.428 ppb	3,719.689 ppb	177.159 %
Concentration RSD	1.2 %	8.1 %	0.5 %	4.9 %	6.4 %	5.1 %	4.8 %	5.1 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	15.616 ppb	21.687 ppb	3,546.993 ppb	20,925.688 ppb	64.262 ppb	38.602 ppb	71.745 ppb	69.734 ppb	105.367 %
Concentration per Run 1	15.888 ppb	21.717 ppb	3,574.068 ppb	21,040.495 ppb	65.146 ppb	39.290 ppb	72.450 ppb	69.984 ppb	103.443 %
Concentration per Run 2	15.625 ppb	21.885 ppb	3,531.367 ppb	20,906.138 ppb	63.525 ppb	39.398 ppb	71.474 ppb	70.281 ppb	107.066 %
Concentration per Run 3	15.335 ppb	21.460 ppb	3,535.544 ppb	20,830.432 ppb	64.114 ppb	37.117 ppb	71.312 ppb	68.937 ppb	105.592 %
Concentration RSD	1.8 %	1.0 %	0.7 %	0.5 %	1.3 %	3.3 %	0.9 %	1.0 %	1.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	11.077 ppb	16.426 ppb	19.063 ppb	0.767 ppb	101.949 %	0.029 ppb	0.444 ppb	106.754 %	1.300 ppb
Concentration per Run 1	11.565 ppb	17.803 ppb	19.188 ppb	0.705 ppb	100.697 %	0.027 ppb	0.435 ppb	105.932 %	1.354 ppb
Concentration per Run 2	11.145 ppb	15.754 ppb	19.045 ppb	0.697 ppb	101.647 %	0.028 ppb	0.455 ppb	105.257 %	1.249 ppb
Concentration per Run 3	10.523 ppb	15.720 ppb	18.955 ppb	0.900 ppb	103.502 %	0.032 ppb	0.441 ppb	109.073 %	1.297 ppb
Concentration RSD	4.7 %	7.3 %	0.6 %	15.0 %	1.4 %	9.5 %	2.3 %	1.9 %	4.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	111.083 ppb	112.969 %	108.485 %	0.286 ppb	77.575 ppb	120.003 %
Concentration per Run 1	108.450 ppb	112.032 %	108.774 %	0.235 ppb	67.007 ppb	137.179 %
Concentration per Run 2	114.386 ppb	111.496 %	106.279 %	0.300 ppb	80.803 ppb	114.403 %
Concentration per Run 3	110.413 ppb	115.378 %	110.402 %	0.323 ppb	84.914 ppb	108.428 %
Concentration RSD	2.7 %	1.9 %	1.9 %	15.9 %	12.1 %	12.6 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	51	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-03d10 6020TL	Rack	2		
Analysis started at:	12/6/2023 7:21:19 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	109.887 %	98.902 %	0.000 ppb	11,526.163 ppb	13,122.127 ppb	4.456 ppb	1,222.354 ppb	49,651.724 ppb	117.475 %
Concentration per Run 1	112.619 %	102.326 %	0.005 ppb	11,199.153 ppb	12,687.261 ppb	4.048 ppb	1,181.024 ppb	49,479.508 ppb	118.954 %
Concentration per Run 2	109.442 %	94.574 %	0.000 ppb	11,791.633 ppb	13,485.536 ppb	4.669 ppb	1,263.569 ppb	50,417.494 ppb	118.103 %
Concentration per Run 3	107.600 %	99.806 %	-0.005 ppb	11,587.704 ppb	13,193.585 ppb	4.651 ppb	1,222.470 ppb	49,058.169 ppb	115.368 %
Concentration RSD	2.3 %	4.0 %	6,972.4 %	2.6 %	3.1 %	7.9 %	3.4 %	1.4 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.036 ppb	0.062 ppb	274.952 ppb	9,068.152 ppb	0.218 ppb	0.312 ppb	0.029 ppb	-0.096 ppb	102.447 %
Concentration per Run 1	0.065 ppb	0.058 ppb	271.246 ppb	9,013.539 ppb	0.238 ppb	0.334 ppb	0.041 ppb	-0.122 ppb	99.713 %
Concentration per Run 2	0.037 ppb	0.074 ppb	277.700 ppb	9,220.451 ppb	0.217 ppb	0.332 ppb	0.015 ppb	-0.137 ppb	102.410 %
Concentration per Run 3	0.005 ppb	0.054 ppb	275.911 ppb	8,970.468 ppb	0.200 ppb	0.271 ppb	0.031 ppb	-0.030 ppb	105.216 %
Concentration RSD	84.2 %	17.3 %	1.2 %	1.5 %	8.7 %	11.5 %	45.1 %	60.3 %	2.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.965 ppb	0.000 ppb	176.263 ppb	0.424 ppb	98.315 %	-0.001 ppb	-0.001 ppb	101.265 %	0.536 ppb
Concentration per Run 1	2.216 ppb	0.033 ppb	178.473 ppb	0.426 ppb	96.062 %	-0.001 ppb	0.001 ppb	100.585 %	0.509 ppb
Concentration per Run 2	1.944 ppb	0.090 ppb	174.138 ppb	0.367 ppb	99.120 %	-0.002 ppb	-0.001 ppb	100.783 %	0.554 ppb
Concentration per Run 3	1.734 ppb	-0.122 ppb	176.179 ppb	0.477 ppb	99.763 %	-0.001 ppb	-0.001 ppb	102.428 %	0.545 ppb
Concentration RSD	12.3 %	25,836.1 %	1.2 %	12.9 %	2.0 %	39.9 %	175.6 %	1.0 %	4.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	183.729 ppb	103.448 %	103.924 %	0.018 ppb	0.029 ppb	99.453 %
Concentration per Run 1	187.281 ppb	102.168 %	102.343 %	0.000 ppb	0.034 ppb	103.173 %
Concentration per Run 2	181.023 ppb	103.068 %	106.125 %	0.026 ppb	0.029 ppb	97.362 %
Concentration per Run 3	182.884 ppb	105.110 %	103.303 %	0.027 ppb	0.023 ppb	97.823 %
Concentration RSD	1.7 %	1.5 %	1.9 %	84.6 %	18.7 %	3.2 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	52	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-11D10 6020TL	Rack	2		
Analysis started at:	12/6/2023 7:25:58 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.072 %	91.860 %	0.004 ppb	54,700.403 ppb	11,623.228 ppb	16.406 ppb	903.611 ppb	30,827.886 ppb	113.395 %
Concentration per Run 1	110.039 %	89.922 %	0.000 ppb	53,834.356 ppb	11,324.793 ppb	15.608 ppb	921.587 ppb	30,950.013 ppb	115.164 %
Concentration per Run 2	106.813 %	96.705 %	0.001 ppb	53,832.569 ppb	11,415.948 ppb	16.261 ppb	864.007 ppb	29,731.051 ppb	114.696 %
Concentration per Run 3	101.365 %	88.953 %	0.010 ppb	56,434.283 ppb	12,128.944 ppb	17.349 ppb	925.239 ppb	31,802.594 ppb	110.327 %
Concentration RSD	4.1 %	4.6 %	162.7 %	2.7 %	3.8 %	5.4 %	3.8 %	3.4 %	2.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.013 ppb	0.036 ppb	28.569 ppb	1,820.337 ppb	0.263 ppb	0.318 ppb	0.082 ppb	-0.267 ppb	96.931 %
Concentration per Run 1	0.005 ppb	0.023 ppb	28.938 ppb	1,826.584 ppb	0.235 ppb	0.309 ppb	0.067 ppb	-0.275 ppb	96.388 %
Concentration per Run 2	-0.020 ppb	0.017 ppb	28.078 ppb	1,833.644 ppb	0.270 ppb	0.280 ppb	0.109 ppb	-0.311 ppb	97.191 %
Concentration per Run 3	0.052 ppb	0.069 ppb	28.690 ppb	1,800.783 ppb	0.286 ppb	0.365 ppb	0.070 ppb	-0.215 ppb	97.215 %
Concentration RSD	288.0 %	78.6 %	1.5 %	1.0 %	9.8 %	13.6 %	29.0 %	18.1 %	0.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	4.144 ppb	-0.012 ppb	346.649 ppb	0.408 ppb	94.934 %	-0.002 ppb	-0.001 ppb	101.946 %	0.274 ppb
Concentration per Run 1	4.399 ppb	-0.070 ppb	349.058 ppb	0.405 ppb	91.610 %	-0.003 ppb	0.001 ppb	97.087 %	0.249 ppb
Concentration per Run 2	4.021 ppb	0.086 ppb	342.632 ppb	0.396 ppb	96.406 %	-0.002 ppb	-0.001 ppb	105.520 %	0.285 ppb
Concentration per Run 3	4.011 ppb	-0.053 ppb	348.258 ppb	0.423 ppb	96.785 %	0.000 ppb	-0.001 ppb	103.232 %	0.289 ppb
Concentration RSD	5.3 %	685.9 %	1.0 %	3.3 %	3.0 %	98.6 %	190.3 %	4.3 %	7.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	265.196 ppb	101.003 %	100.353 %	0.011 ppb	0.032 ppb	92.918 %
Concentration per Run 1	276.552 ppb	95.617 %	97.339 %	0.001 ppb	0.032 ppb	92.190 %
Concentration per Run 2	251.274 ppb	103.914 %	102.566 %	0.010 ppb	0.030 ppb	93.557 %
Concentration per Run 3	267.762 ppb	103.480 %	101.154 %	0.021 ppb	0.033 ppb	93.008 %
Concentration RSD	4.8 %	4.6 %	2.7 %	89.3 %	5.4 %	0.7 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	53	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-15d10 6020TL	Rack	2		
Analysis started at:	12/6/2023 7:30:37 PM	Vial	12		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.868 %	95.284 %	0.002 ppb	55,201.508 ppb	2,831.708 ppb	27.499 ppb	264.320 ppb	10,714.436 ppb	112.398 %
Concentration per Run 1	109.611 %	84.690 %	0.011 ppb	60,073.819 ppb	3,007.430 ppb	29.408 ppb	308.583 ppb	11,436.838 ppb	111.808 %
Concentration per Run 2	106.674 %	98.450 %	0.000 ppb	53,514.883 ppb	2,753.084 ppb	27.494 ppb	242.596 ppb	10,577.095 ppb	113.590 %
Concentration per Run 3	104.320 %	102.713 %	-0.003 ppb	52,015.822 ppb	2,734.611 ppb	25.596 ppb	241.782 ppb	10,129.374 ppb	111.796 %
Concentration RSD	2.5 %	9.9 %	331.0 %	7.8 %	5.4 %	6.9 %	14.5 %	6.2 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.013 ppb	0.093 ppb	51.038 ppb	378.026 ppb	0.026 ppb	0.072 ppb	0.084 ppb	-0.343 ppb	98.205 %
Concentration per Run 1	-0.031 ppb	0.088 ppb	51.695 ppb	396.882 ppb	0.030 ppb	0.071 ppb	0.063 ppb	-0.350 ppb	93.225 %
Concentration per Run 2	0.009 ppb	0.076 ppb	50.537 ppb	365.570 ppb	0.032 ppb	0.097 ppb	0.093 ppb	-0.338 ppb	98.225 %
Concentration per Run 3	-0.016 ppb	0.115 ppb	50.881 ppb	371.627 ppb	0.016 ppb	0.050 ppb	0.097 ppb	-0.342 ppb	103.164 %
Concentration RSD	162.7 %	21.8 %	1.2 %	4.4 %	33.3 %	32.4 %	22.4 %	1.8 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.230 ppb	-0.029 ppb	245.729 ppb	0.168 ppb	95.118 %	-0.001 ppb	0.000 ppb	98.640 %	0.174 ppb
Concentration per Run 1	0.340 ppb	-0.062 ppb	253.281 ppb	0.099 ppb	90.935 %	-0.002 ppb	0.001 ppb	94.404 %	0.132 ppb
Concentration per Run 2	0.318 ppb	-0.057 ppb	244.761 ppb	0.197 ppb	96.457 %	-0.001 ppb	-0.001 ppb	96.595 %	0.203 ppb
Concentration per Run 3	0.032 ppb	0.032 ppb	239.145 ppb	0.208 ppb	97.963 %	-0.001 ppb	0.001 ppb	104.920 %	0.188 ppb
Concentration RSD	74.7 %	183.3 %	2.9 %	35.6 %	3.9 %	17.6 %	4,225.4 %	5.6 %	21.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	25.750 ppb	100.221 %	99.300 %	0.003 ppb	0.071 ppb	93.062 %
Concentration per Run 1	26.936 ppb	97.566 %	94.992 %	-0.010 ppb	0.072 ppb	93.570 %
Concentration per Run 2	25.067 ppb	102.440 %	102.519 %	0.007 ppb	0.071 ppb	92.503 %
Concentration per Run 3	25.247 ppb	100.655 %	100.389 %	0.011 ppb	0.070 ppb	93.114 %
Concentration RSD	4.0 %	2.5 %	3.9 %	439.5 %	1.8 %	0.6 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	54	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371128-16d10 6020TL	Rack	2		
Analysis started at:	12/6/2023 7:35:17 PM	Vial	13		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.273 %	99.612 %	0.000 ppb	45,703.189 ppb	2,437.097 ppb	2.067 ppb	237.674 ppb	10,963.015 ppb	109.081 %
Concentration per Run 1	108.748 %	90.891 %	-0.003 ppb	49,091.877 ppb	2,658.811 ppb	2.513 ppb	265.356 ppb	11,843.618 ppb	110.668 %
Concentration per Run 2	107.386 %	101.744 %	0.001 ppb	44,878.968 ppb	2,343.748 ppb	1.266 ppb	223.492 ppb	10,645.910 ppb	110.300 %
Concentration per Run 3	102.685 %	106.202 %	0.001 ppb	43,138.723 ppb	2,308.733 ppb	2.421 ppb	224.176 ppb	10,399.516 ppb	106.274 %
Concentration RSD	3.0 %	7.9 %	980.5 %	6.7 %	7.9 %	33.6 %	10.1 %	7.0 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.016 ppb	0.034 ppb	79.866 ppb	57.755 ppb	0.162 ppb	0.251 ppb	0.032 ppb	-0.534 ppb	99.886 %
Concentration per Run 1	-0.002 ppb	0.067 ppb	80.512 ppb	60.938 ppb	0.154 ppb	0.265 ppb	0.034 ppb	-0.493 ppb	94.649 %
Concentration per Run 2	-0.036 ppb	0.040 ppb	81.136 ppb	55.993 ppb	0.147 ppb	0.252 ppb	0.041 ppb	-0.523 ppb	98.730 %
Concentration per Run 3	-0.011 ppb	-0.005 ppb	77.951 ppb	56.334 ppb	0.186 ppb	0.235 ppb	0.019 ppb	-0.588 ppb	106.280 %
Concentration RSD	109.6 %	108.1 %	2.1 %	4.8 %	12.8 %	6.0 %	35.4 %	9.1 %	5.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.318 ppb	-0.075 ppb	350.350 ppb	0.155 ppb	94.632 %	-0.002 ppb	-0.001 ppb	99.154 %	0.113 ppb
Concentration per Run 1	0.617 ppb	-0.052 ppb	360.595 ppb	0.118 ppb	90.797 %	-0.003 ppb	-0.001 ppb	96.365 %	0.125 ppb
Concentration per Run 2	0.169 ppb	-0.054 ppb	351.091 ppb	0.169 ppb	96.161 %	-0.003 ppb	0.001 ppb	99.029 %	0.099 ppb
Concentration per Run 3	0.169 ppb	-0.118 ppb	339.364 ppb	0.177 ppb	96.939 %	-0.001 ppb	-0.001 ppb	102.069 %	0.115 ppb
Concentration RSD	81.1 %	50.9 %	3.0 %	20.5 %	3.5 %	54.4 %	179.2 %	2.9 %	11.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	18.954 ppb	97.769 %	97.610 %	0.003 ppb	0.013 ppb	91.475 %
Concentration per Run 1	19.270 ppb	92.562 %	93.991 %	-0.011 ppb	0.013 ppb	92.505 %
Concentration per Run 2	18.407 ppb	99.810 %	99.521 %	0.009 ppb	0.012 ppb	90.361 %
Concentration per Run 3	19.184 ppb	100.934 %	99.318 %	0.012 ppb	0.013 ppb	91.560 %
Concentration RSD	2.5 %	4.6 %	3.2 %	377.5 %	4.9 %	1.2 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	55	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 7:39:56 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.343 %	92.700 %	61.284 ppb	6,579.495 ppb	6,247.427 ppb	63.348 ppb	6,299.559 ppb	6,115.244 ppb	113.805 %
Concentration per Run 1	107.381 %	89.147 %	60.287 ppb	6,822.605 ppb	6,427.453 ppb	63.654 ppb	6,539.665 ppb	6,367.955 ppb	113.187 %
Concentration per Run 2	104.090 %	92.054 %	61.586 ppb	6,530.969 ppb	6,138.316 ppb	62.377 ppb	6,380.640 ppb	6,155.074 ppb	114.197 %
Concentration per Run 3	101.557 %	96.899 %	61.977 ppb	6,384.910 ppb	6,176.511 ppb	64.013 ppb	5,978.372 ppb	5,822.704 ppb	114.030 %
Recovery Percentage 1			102.139 %	109.658 %	104.124 %	105.580 %	104.993 %	101.921 %	
Concentration RSD	2.8 %	4.2 %	1.4 %	3.4 %	2.5 %	1.4 %	4.6 %	4.5 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.800 ppb	58.245 ppb	60.688 ppb	6,255.145 ppb	62.871 ppb	62.933 ppb	61.703 ppb	60.266 ppb	98.408 %
Concentration per Run 1	61.627 ppb	59.961 ppb	63.997 ppb	6,464.220 ppb	66.967 ppb	66.405 ppb	64.718 ppb	62.454 ppb	92.322 %
Concentration per Run 2	58.292 ppb	58.197 ppb	61.351 ppb	6,244.233 ppb	62.215 ppb	61.756 ppb	61.406 ppb	59.816 ppb	98.619 %
Concentration per Run 3	56.482 ppb	56.577 ppb	56.718 ppb	6,056.982 ppb	59.432 ppb	60.640 ppb	58.986 ppb	58.527 ppb	104.284 %
Recovery Percentage 1	98.000 %	97.075 %	101.147 %	104.252 %	104.786 %	104.889 %	102.838 %	100.443 %	
Concentration RSD	4.4 %	2.9 %	6.1 %	3.3 %	6.1 %	4.9 %	4.7 %	3.3 %	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	61.989 ppb	58.776 ppb	56.901 ppb	58.541 ppb	98.059 %	60.596 ppb	61.071 ppb	98.092 %	61.227 ppb
Concentration per Run 1	65.029 ppb	62.560 ppb	58.019 ppb	59.226 ppb	93.925 %	61.513 ppb	60.908 ppb	95.370 %	61.658 ppb
Concentration per Run 2	62.094 ppb	56.204 ppb	56.855 ppb	57.502 ppb	99.479 %	61.135 ppb	61.378 ppb	98.246 %	60.334 ppb
Concentration per Run 3	58.845 ppb	57.565 ppb	55.829 ppb	58.896 ppb	100.772 %	59.139 ppb	60.928 ppb	100.661 %	61.689 ppb
Recovery Percentage 1	103.315 %	97.961 %	94.835 %	97.569 %		100.993 %	101.786 %		102.045 %
Concentration RSD	5.0 %	5.7 %	1.9 %	1.6 %	3.7 %	2.1 %	0.4 %	2.7 %	1.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.297 ppb	100.842 %	100.510 %	58.406 ppb	59.606 ppb	94.671 %
Concentration per Run 1	60.068 ppb	96.979 %	96.096 %	54.713 ppb	57.340 ppb	98.134 %
Concentration per Run 2	56.465 ppb	102.712 %	101.941 %	59.142 ppb	60.326 ppb	92.899 %
Concentration per Run 3	58.356 ppb	102.836 %	103.492 %	61.363 ppb	61.152 ppb	92.978 %
Recovery Percentage 1	97.161 %			97.344 %	99.344 %	
Concentration RSD	3.1 %	3.3 %	3.9 %	5.8 %	3.4 %	3.2 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	56	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 7:44:38 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.700 %	94.057 %	0.003 ppb	33.994 ppb	0.910 ppb	0.363 ppb	2.683 ppb	-0.086 ppb	107.074 %
Concentration per Run 1	107.888 %	93.411 %	-0.001 ppb	33.824 ppb	0.796 ppb	0.927 ppb	5.590 ppb	2.886 ppb	108.914 %
Concentration per Run 2	102.970 %	92.829 %	0.006 ppb	36.754 ppb	0.949 ppb	0.227 ppb	5.604 ppb	-4.222 ppb	105.849 %
Concentration per Run 3	103.242 %	95.930 %	0.005 ppb	31.405 ppb	0.985 ppb	-0.066 ppb	-3.146 ppb	1.078 ppb	106.459 %
Recovery Percentage 1			0.651 %	33.994 %	1.300 %	3.629 %	2.683 %	-0.086 %	
Concentration RSD	2.6 %	1.8 %	123.0 %	7.9 %	11.0 %	140.6 %	188.2 %	4,307.8 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.057 ppb	0.002 ppb	0.012 ppb	8.653 ppb	0.001 ppb	0.057 ppb	0.019 ppb	-0.395 ppb	98.071 %
Concentration per Run 1	-0.056 ppb	0.013 ppb	-0.047 ppb	10.191 ppb	0.000 ppb	0.061 ppb	0.030 ppb	-0.380 ppb	94.316 %
Concentration per Run 2	-0.072 ppb	-0.011 ppb	0.061 ppb	8.633 ppb	0.000 ppb	0.061 ppb	-0.008 ppb	-0.403 ppb	94.901 %
Concentration per Run 3	-0.044 ppb	0.004 ppb	0.021 ppb	7.134 ppb	0.004 ppb	0.050 ppb	0.034 ppb	-0.403 ppb	104.996 %
Recovery Percentage 1	-1.147 %	0.155 %	1.168 %	17.305 %	0.228 %	2.870 %	1.883 %	-7.907 %	
Concentration RSD	24.5 %	783.5 %	467.3 %	17.7 %	180.9 %	11.5 %	124.1 %	3.3 %	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.136 ppb	0.408 ppb	0.010 ppb	0.669 ppb	97.324 %	0.003 ppb	0.001 ppb	99.408 %	0.066 ppb
Concentration per Run 1	0.361 ppb	0.341 ppb	0.005 ppb	0.689 ppb	95.572 %	0.004 ppb	0.001 ppb	96.760 %	0.059 ppb
Concentration per Run 2	0.139 ppb	0.380 ppb	0.012 ppb	0.716 ppb	98.711 %	0.002 ppb	0.003 ppb	100.491 %	0.059 ppb
Concentration per Run 3	-0.093 ppb	0.503 ppb	0.014 ppb	0.602 ppb	97.689 %	0.002 ppb	-0.001 ppb	100.972 %	0.079 ppb
Recovery Percentage 1	27.129 %	8.159 %	0.104 %	33.448 %		0.723 %	0.342 %		1.649 %
Concentration RSD	167.3 %	20.6 %	42.9 %	8.9 %	1.6 %	43.7 %	290.3 %	2.3 %	17.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.000 ppb	99.135 %	99.811 %	0.482 ppb	0.012 ppb	95.776 %
Concentration per Run 1	0.000 ppb	96.950 %	97.354 %	0.359 ppb	0.014 ppb	96.860 %
Concentration per Run 2	-0.014 ppb	101.073 %	99.302 %	0.566 ppb	0.013 ppb	95.140 %
Concentration per Run 3	0.014 ppb	99.382 %	102.777 %	0.521 ppb	0.010 ppb	95.329 %
Recovery Percentage 1	0.027 %			48.207 %	1.221 %	
Concentration RSD	10,366.1 %	2.1 %	2.8 %	22.5 %	16.8 %	1.0 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	57	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859636-1 6020TL	Rack	2		
Analysis started at:	12/6/2023 7:52:52 PM	Vial	14		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	111.530 %	95.284 %	-0.002 ppb	20.578 ppb	1.364 ppb	1.664 ppb	-3.479 ppb	6.717 ppb	110.819 %
Concentration per Run 1	114.366 %	93.605 %	-0.005 ppb	27.758 ppb	0.926 ppb	1.711 ppb	1.333 ppb	3.506 ppb	112.657 %
Concentration per Run 2	112.706 %	93.023 %	0.004 ppb	24.636 ppb	1.357 ppb	1.752 ppb	-10.334 ppb	10.311 ppb	110.476 %
Concentration per Run 3	107.519 %	99.225 %	-0.005 ppb	9.339 ppb	1.811 ppb	1.528 ppb	-1.437 ppb	6.333 ppb	109.323 %
Concentration RSD	3.2 %	3.6 %	328.6 %	47.9 %	32.4 %	7.2 %	175.2 %	50.9 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.057 ppb	0.033 ppb	0.007 ppb	2.364 ppb	0.002 ppb	-0.019 ppb	0.003 ppb	-0.705 ppb	97.892 %
Concentration per Run 1	-0.049 ppb	0.051 ppb	-0.009 ppb	2.973 ppb	0.003 ppb	-0.041 ppb	0.006 ppb	-0.737 ppb	96.752 %
Concentration per Run 2	-0.065 ppb	0.027 ppb	0.002 ppb	2.720 ppb	0.007 ppb	0.005 ppb	-0.002 ppb	-0.685 ppb	99.220 %
Concentration per Run 3	-0.057 ppb	0.020 ppb	0.028 ppb	1.399 ppb	-0.003 ppb	-0.021 ppb	0.006 ppb	-0.695 ppb	97.703 %
Concentration RSD	13.6 %	49.0 %	258.7 %	35.8 %	237.2 %	121.2 %	132.0 %	3.9 %	1.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.105 ppb	0.049 ppb	0.002 ppb	0.114 ppb	99.742 %	-0.001 ppb	-0.001 ppb	98.822 %	0.028 ppb
Concentration per Run 1	0.208 ppb	0.103 ppb	0.016 ppb	0.124 ppb	99.777 %	-0.002 ppb	-0.001 ppb	97.859 %	0.009 ppb
Concentration per Run 2	0.169 ppb	-0.002 ppb	-0.009 ppb	0.142 ppb	102.175 %	0.000 ppb	-0.001 ppb	101.433 %	0.041 ppb
Concentration per Run 3	-0.063 ppb	0.045 ppb	-0.002 ppb	0.076 ppb	97.272 %	0.001 ppb	-0.001 ppb	97.173 %	0.035 ppb
Concentration RSD	140.1 %	108.4 %	758.5 %	29.7 %	2.5 %	244.0 %	0.0 %	2.3 %	61.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.005 ppb	100.690 %	98.922 %	0.082 ppb	0.001 ppb	96.198 %
Concentration per Run 1	0.014 ppb	102.120 %	99.846 %	0.051 ppb	0.001 ppb	97.826 %
Concentration per Run 2	-0.014 ppb	102.353 %	100.345 %	0.096 ppb	0.001 ppb	97.521 %
Concentration per Run 3	0.015 ppb	97.597 %	96.576 %	0.099 ppb	0.000 ppb	93.249 %
Concentration RSD	333.2 %	2.7 %	2.1 %	33.2 %	81.3 %	2.7 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index: 58
Analysis label: WG1859636-2d10 6020TL
Analysis started at: 12/6/2023 7:57:31 PM
User name ALPHALAB\Metals-Instrument
Rack 2
Vial 15
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	104.834 %	96.770 %	5.237 ppb	1,125.254 ppb	1,039.172 ppb	216.118 ppb	1,028.681 ppb	1,018.313 ppb	107.680 %
Concentration per Run 1	107.555 %	92.442 %	5.311 ppb	1,226.386 ppb	1,106.543 ppb	228.727 ppb	1,068.386 ppb	1,033.141 ppb	108.261 %
Concentration per Run 2	104.932 %	98.450 %	5.142 ppb	1,100.852 ppb	1,031.303 ppb	219.791 ppb	1,067.596 ppb	1,022.184 ppb	107.610 %
Concentration per Run 3	102.015 %	99.419 %	5.258 ppb	1,048.522 ppb	979.671 ppb	199.834 ppb	950.062 ppb	999.614 ppb	107.168 %
Concentration RSD	2.6 %	3.9 %	1.7 %	8.1 %	6.1 %	6.8 %	6.6 %	1.7 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.600 ppb	18.966 ppb	49.532 ppb	103.572 ppb	51.062 ppb	50.079 ppb	26.083 ppb	49.540 ppb	98.930 %
Concentration per Run 1	51.094 ppb	20.703 ppb	50.484 ppb	106.710 ppb	54.317 ppb	53.425 ppb	28.158 ppb	51.913 ppb	92.567 %
Concentration per Run 2	46.772 ppb	18.707 ppb	50.053 ppb	106.131 ppb	51.484 ppb	49.790 ppb	25.881 ppb	49.723 ppb	99.470 %
Concentration per Run 3	44.933 ppb	17.489 ppb	48.060 ppb	97.873 ppb	47.384 ppb	47.022 ppb	24.210 ppb	46.984 ppb	104.754 %
Concentration RSD	6.6 %	8.6 %	2.6 %	4.8 %	6.8 %	6.4 %	7.6 %	5.0 %	6.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.658 ppb	12.049 ppb	94.707 ppb	98.274 ppb	96.602 %	5.174 ppb	5.305 ppb	98.168 %	39.999 ppb
Concentration per Run 1	13.913 ppb	13.614 ppb	100.512 ppb	97.741 ppb	94.668 %	5.269 ppb	5.499 ppb	94.578 %	42.082 ppb
Concentration per Run 2	12.437 ppb	11.840 ppb	96.113 ppb	98.927 ppb	97.968 %	5.158 ppb	5.325 ppb	101.520 %	38.889 ppb
Concentration per Run 3	11.623 ppb	10.693 ppb	87.497 ppb	98.155 ppb	97.171 %	5.095 ppb	5.090 ppb	98.405 %	39.026 ppb
Concentration RSD	9.2 %	12.2 %	7.0 %	0.6 %	1.8 %	1.7 %	3.9 %	3.5 %	4.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	193.585 ppb	98.921 %	97.889 %	11.745 ppb	51.883 ppb	99.341 %
Concentration per Run 1	209.726 ppb	94.465 %	94.103 %	11.224 ppb	49.812 ppb	103.908 %
Concentration per Run 2	185.214 ppb	101.574 %	101.013 %	11.839 ppb	52.689 ppb	98.891 %
Concentration per Run 3	185.814 ppb	100.725 %	98.551 %	12.171 ppb	53.147 ppb	95.226 %
Concentration RSD	7.2 %	3.9 %	3.6 %	4.1 %	3.5 %	4.4 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	59	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859636-3d10 6020TL	Rack	2		
Analysis started at:	12/6/2023 8:02:10 PM	Vial	17		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	102.955 %	91.021 %	5.190 ppb	22,147.572 ppb	1,691.772 ppb	220.455 ppb	1,561.623 ppb	4,650.550 ppb	107.102 %
Concentration per Run 1	106.328 %	87.791 %	5.066 ppb	22,717.340 ppb	1,741.974 ppb	228.038 ppb	1,558.721 ppb	4,830.851 ppb	108.620 %
Concentration per Run 2	103.145 %	89.922 %	5.257 ppb	22,259.010 ppb	1,750.803 ppb	227.123 ppb	1,598.708 ppb	4,523.646 ppb	106.829 %
Concentration per Run 3	99.392 %	95.349 %	5.246 ppb	21,466.367 ppb	1,582.539 ppb	206.203 ppb	1,527.442 ppb	4,597.153 ppb	105.858 %
Concentration RSD	3.4 %	4.3 %	2.1 %	2.9 %	5.6 %	5.6 %	2.3 %	3.4 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	49.085 ppb	22.522 ppb	51.168 ppb	122.140 ppb	51.643 ppb	51.318 ppb	26.255 ppb	51.665 ppb	97.308 %
Concentration per Run 1	50.652 ppb	22.668 ppb	51.575 ppb	122.960 ppb	52.007 ppb	51.886 ppb	25.954 ppb	52.068 ppb	98.147 %
Concentration per Run 2	48.765 ppb	22.411 ppb	50.684 ppb	119.750 ppb	50.341 ppb	50.230 ppb	25.901 ppb	51.959 ppb	100.094 %
Concentration per Run 3	47.839 ppb	22.488 ppb	51.244 ppb	123.710 ppb	52.579 ppb	51.839 ppb	26.909 ppb	50.969 ppb	93.684 %
Concentration RSD	2.9 %	0.6 %	0.9 %	1.7 %	2.3 %	1.8 %	2.2 %	1.2 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.889 ppb	12.340 ppb	113.351 ppb	100.784 ppb	96.355 %	5.090 ppb	5.274 ppb	99.735 %	42.500 ppb
Concentration per Run 1	12.727 ppb	12.516 ppb	116.018 ppb	103.255 ppb	92.389 %	5.270 ppb	5.481 ppb	94.507 %	45.150 ppb
Concentration per Run 2	12.845 ppb	11.609 ppb	113.696 ppb	98.812 ppb	98.096 %	4.940 ppb	5.168 ppb	101.531 %	41.341 ppb
Concentration per Run 3	13.095 ppb	12.895 ppb	110.340 ppb	100.285 ppb	98.581 %	5.060 ppb	5.173 ppb	103.165 %	41.009 ppb
Concentration RSD	1.5 %	5.4 %	2.5 %	2.2 %	3.6 %	3.3 %	3.4 %	4.6 %	5.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	198.656 ppb	98.418 %	97.363 %	12.279 ppb	54.365 ppb	93.602 %
Concentration per Run 1	210.211 ppb	95.061 %	93.737 %	12.145 ppb	54.061 ppb	93.091 %
Concentration per Run 2	198.117 ppb	102.662 %	99.692 %	12.243 ppb	53.987 ppb	95.583 %
Concentration per Run 3	187.639 ppb	97.531 %	98.660 %	12.448 ppb	55.048 ppb	92.131 %
Concentration RSD	5.7 %	3.9 %	3.3 %	1.3 %	1.1 %	1.9 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	60	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859636-4d10 6020TL	Rack	2		
Analysis started at:	12/6/2023 8:06:49 PM	Vial	18		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.725 %	95.478 %	5.359 ppb	21,295.102 ppb	1,649.548 ppb	220.150 ppb	1,562.967 ppb	4,611.011 ppb	105.441 %
Concentration per Run 1	103.229 %	102.326 %	5.290 ppb	20,962.176 ppb	1,587.545 ppb	211.373 ppb	1,531.934 ppb	4,690.284 ppb	106.452 %
Concentration per Run 2	100.128 %	98.643 %	5.388 ppb	20,637.331 ppb	1,583.942 ppb	216.333 ppb	1,542.603 ppb	4,494.295 ppb	105.412 %
Concentration per Run 3	98.817 %	85.465 %	5.400 ppb	22,285.800 ppb	1,777.155 ppb	232.744 ppb	1,614.364 ppb	4,648.455 ppb	104.459 %
Concentration RSD	2.2 %	9.3 %	1.1 %	4.1 %	6.7 %	5.1 %	2.9 %	2.2 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	48.859 ppb	22.353 ppb	48.686 ppb	120.838 ppb	51.345 ppb	51.302 ppb	26.064 ppb	50.835 ppb	98.609 %
Concentration per Run 1	49.683 ppb	22.413 ppb	46.409 ppb	114.468 ppb	51.570 ppb	51.136 ppb	26.492 ppb	52.292 ppb	95.101 %
Concentration per Run 2	46.669 ppb	21.666 ppb	47.746 ppb	116.812 ppb	48.594 ppb	49.374 ppb	24.503 ppb	48.415 ppb	105.401 %
Concentration per Run 3	50.225 ppb	22.980 ppb	51.902 ppb	131.234 ppb	53.873 ppb	53.395 ppb	27.198 ppb	51.798 ppb	95.324 %
Concentration RSD	3.9 %	2.9 %	5.9 %	7.5 %	5.2 %	3.9 %	5.4 %	4.2 %	6.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.808 ppb	11.779 ppb	113.905 ppb	102.811 ppb	96.483 %	5.039 ppb	5.427 ppb	98.995 %	44.202 ppb
Concentration per Run 1	13.742 ppb	12.080 ppb	117.609 ppb	102.641 ppb	94.341 %	5.002 ppb	5.686 ppb	97.732 %	44.571 ppb
Concentration per Run 2	11.860 ppb	10.775 ppb	111.341 ppb	101.465 ppb	98.216 %	5.009 ppb	5.436 ppb	101.744 %	43.154 ppb
Concentration per Run 3	12.821 ppb	12.482 ppb	112.765 ppb	104.327 ppb	96.891 %	5.107 ppb	5.161 ppb	97.509 %	44.881 ppb
Concentration RSD	7.3 %	7.6 %	2.9 %	1.4 %	2.0 %	1.2 %	4.8 %	2.4 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	202.157 ppb	98.070 %	96.179 %	12.555 ppb	54.952 ppb	93.292 %
Concentration per Run 1	206.828 ppb	96.085 %	95.137 %	12.324 ppb	54.185 ppb	95.459 %
Concentration per Run 2	197.336 ppb	98.799 %	97.895 %	12.791 ppb	56.088 ppb	90.684 %
Concentration per Run 3	202.309 ppb	99.326 %	95.504 %	12.550 ppb	54.583 ppb	93.734 %
Concentration RSD	2.3 %	1.8 %	1.6 %	1.9 %	1.8 %	2.6 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	61	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859636-5d10 6020TL	Rack	2		
Analysis started at:	12/6/2023 8:11:27 PM	Vial	19		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.100 %	92.119 %	49.340 ppb	26,194.121 ppb	5,716.209 ppb	57.154 ppb	5,444.708 ppb	8,462.865 ppb	109.428 %
Concentration per Run 1	102.932 %	85.465 %	48.867 ppb	27,851.088 ppb	5,971.776 ppb	63.779 ppb	5,857.757 ppb	9,169.125 ppb	112.260 %
Concentration per Run 2	99.882 %	96.318 %	49.120 ppb	25,238.556 ppb	5,494.356 ppb	53.064 ppb	5,093.385 ppb	7,945.431 ppb	108.191 %
Concentration per Run 3	97.485 %	94.574 %	50.033 ppb	25,492.721 ppb	5,682.494 ppb	54.618 ppb	5,382.984 ppb	8,274.039 ppb	107.833 %
Concentration RSD	2.7 %	6.3 %	1.2 %	5.5 %	4.2 %	10.1 %	7.1 %	7.5 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.739 ppb	50.531 ppb	49.989 ppb	5,108.629 ppb	51.290 ppb	50.967 ppb	50.746 ppb	50.880 ppb	96.220 %
Concentration per Run 1	50.628 ppb	52.758 ppb	50.671 ppb	5,390.147 ppb	53.940 ppb	53.252 ppb	52.881 ppb	54.734 ppb	90.925 %
Concentration per Run 2	45.238 ppb	47.693 ppb	49.744 ppb	4,940.038 ppb	48.963 ppb	48.693 ppb	48.753 ppb	48.023 ppb	100.120 %
Concentration per Run 3	47.352 ppb	51.143 ppb	49.551 ppb	4,995.702 ppb	50.966 ppb	50.957 ppb	50.605 ppb	49.885 ppb	97.616 %
Concentration RSD	5.7 %	5.1 %	1.2 %	4.8 %	4.9 %	4.5 %	4.1 %	6.8 %	4.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	49.582 ppb	47.959 ppb	65.105 ppb	51.576 ppb	95.275 %	4.120 ppb	48.843 ppb	96.443 %	52.496 ppb
Concentration per Run 1	52.975 ppb	50.653 ppb	68.192 ppb	52.781 ppb	90.810 %	4.153 ppb	49.943 ppb	95.246 %	54.037 ppb
Concentration per Run 2	48.356 ppb	47.112 ppb	62.706 ppb	50.841 ppb	95.331 %	4.079 ppb	48.857 ppb	93.754 %	51.639 ppb
Concentration per Run 3	47.415 ppb	46.113 ppb	64.416 ppb	51.106 ppb	99.683 %	4.128 ppb	47.728 ppb	100.328 %	51.811 ppb
Concentration RSD	6.0 %	5.0 %	4.3 %	2.0 %	4.7 %	0.9 %	2.3 %	3.6 %	2.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	54.264 ppb	96.980 %	97.812 %	46.428 ppb	48.467 ppb	94.024 %
Concentration per Run 1	56.154 ppb	92.048 %	94.589 %	45.664 ppb	48.084 ppb	94.329 %
Concentration per Run 2	53.841 ppb	98.218 %	99.329 %	46.443 ppb	48.978 ppb	92.117 %
Concentration per Run 3	52.797 ppb	100.672 %	99.517 %	47.177 ppb	48.340 ppb	95.626 %
Concentration RSD	3.2 %	4.6 %	2.9 %	1.6 %	0.9 %	1.9 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	62	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	WG1859636-6d5 6020TL	Rack	2		
Analysis started at:	12/6/2023 8:16:06 PM	Vial	20		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.713 %	89.922 %	0.010 ppb	41,639.212 ppb	1,284.454 ppb	12.869 ppb	1,075.431 ppb	7,463.800 ppb	105.534 %
Concentration per Run 1	102.953 %	94.380 %	0.016 ppb	41,686.981 ppb	1,295.536 ppb	13.893 ppb	1,071.277 ppb	7,590.626 ppb	107.917 %
Concentration per Run 2	99.467 %	88.953 %	0.003 ppb	40,979.238 ppb	1,236.318 ppb	12.540 ppb	1,079.522 ppb	7,366.515 ppb	105.046 %
Concentration per Run 3	96.720 %	86.434 %	0.010 ppb	42,251.417 ppb	1,321.509 ppb	12.174 ppb	1,075.495 ppb	7,434.259 ppb	103.640 %
Concentration RSD	3.1 %	4.5 %	70.5 %	1.5 %	3.4 %	7.0 %	0.4 %	1.5 %	2.1 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.061 ppb	5.696 ppb	2.182 ppb	34.684 ppb	0.023 ppb	0.454 ppb	0.168 ppb	3.333 ppb	99.619 %
Concentration per Run 1	0.037 ppb	5.756 ppb	2.339 ppb	37.473 ppb	0.026 ppb	0.441 ppb	0.163 ppb	3.600 ppb	93.982 %
Concentration per Run 2	0.067 ppb	5.713 ppb	2.109 ppb	36.138 ppb	0.021 ppb	0.435 ppb	0.175 ppb	3.366 ppb	96.834 %
Concentration per Run 3	0.080 ppb	5.620 ppb	2.098 ppb	30.440 ppb	0.022 ppb	0.486 ppb	0.166 ppb	3.033 ppb	108.041 %
Concentration RSD	36.3 %	1.2 %	6.2 %	10.8 %	11.8 %	6.2 %	3.5 %	8.6 %	7.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.085 ppb	0.457 ppb	37.691 ppb	1.107 ppb	96.274 %	0.036 ppb	0.008 ppb	98.667 %	0.805 ppb
Concentration per Run 1	0.211 ppb	0.227 ppb	39.672 ppb	0.959 ppb	93.530 %	0.021 ppb	0.013 ppb	96.332 %	0.720 ppb
Concentration per Run 2	-0.028 ppb	0.742 ppb	36.741 ppb	1.140 ppb	96.560 %	0.039 ppb	0.009 ppb	97.004 %	0.770 ppb
Concentration per Run 3	0.071 ppb	0.403 ppb	36.660 ppb	1.222 ppb	98.730 %	0.048 ppb	0.003 ppb	102.664 %	0.925 ppb
Concentration RSD	141.3 %	57.3 %	4.6 %	12.2 %	2.7 %	38.2 %	64.9 %	3.5 %	13.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	14.327 ppb	97.105 %	97.097 %	0.435 ppb	0.080 ppb	91.833 %
Concentration per Run 1	15.315 ppb	93.256 %	96.482 %	0.304 ppb	0.085 ppb	91.957 %
Concentration per Run 2	13.012 ppb	99.947 %	96.953 %	0.515 ppb	0.078 ppb	91.056 %
Concentration per Run 3	14.655 ppb	98.111 %	97.855 %	0.485 ppb	0.078 ppb	92.486 %
Concentration RSD	8.3 %	3.6 %	0.7 %	26.2 %	4.6 %	0.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	63	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-05 6020TL	Rack	2		
Analysis started at:	12/6/2023 8:20:45 PM	Vial	16		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.627 %	88.695 %	0.023 ppb	199,893.632 ppb	5,948.879 ppb	56.519 ppb	5,169.796 ppb	34,601.397 ppb	108.406 %
Concentration per Run 1	101.107 %	88.372 %	0.028 ppb	204,856.598 ppb	6,167.791 ppb	55.313 ppb	5,268.086 ppb	35,237.641 ppb	109.204 %
Concentration per Run 2	98.031 %	86.822 %	0.021 ppb	192,492.616 ppb	5,721.521 ppb	55.227 ppb	5,218.238 ppb	34,094.577 ppb	109.482 %
Concentration per Run 3	93.743 %	90.891 %	0.018 ppb	202,331.683 ppb	5,957.325 ppb	59.016 ppb	5,023.063 ppb	34,471.972 ppb	106.532 %
Concentration RSD	3.8 %	2.3 %	21.8 %	3.3 %	3.8 %	3.8 %	2.5 %	1.7 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.347 ppb	27.305 ppb	8.933 ppb	147.857 ppb	0.090 ppb	0.247 ppb	0.600 ppb	14.128 ppb	97.188 %
Concentration per Run 1	0.409 ppb	27.744 ppb	9.415 ppb	150.088 ppb	0.095 ppb	0.165 ppb	0.584 ppb	14.707 ppb	94.663 %
Concentration per Run 2	0.365 ppb	27.217 ppb	8.353 ppb	142.647 ppb	0.102 ppb	0.247 ppb	0.590 ppb	13.722 ppb	94.510 %
Concentration per Run 3	0.268 ppb	26.953 ppb	9.031 ppb	150.835 ppb	0.074 ppb	0.330 ppb	0.626 ppb	13.956 ppb	102.390 %
Concentration RSD	20.7 %	1.5 %	6.0 %	3.1 %	16.3 %	33.4 %	3.8 %	3.6 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.326 ppb	1.264 ppb	188.558 ppb	1.064 ppb	91.351 %	0.031 ppb	0.027 ppb	95.150 %	0.530 ppb
Concentration per Run 1	0.526 ppb	0.995 ppb	198.257 ppb	1.040 ppb	86.513 %	0.028 ppb	0.021 ppb	92.094 %	0.542 ppb
Concentration per Run 2	0.258 ppb	0.868 ppb	181.025 ppb	0.987 ppb	91.691 %	0.034 ppb	0.029 ppb	93.379 %	0.502 ppb
Concentration per Run 3	0.195 ppb	1.928 ppb	186.394 ppb	1.164 ppb	95.850 %	0.032 ppb	0.033 ppb	99.976 %	0.547 ppb
Concentration RSD	53.9 %	45.8 %	4.7 %	8.6 %	5.1 %	9.8 %	22.6 %	4.4 %	4.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	72.387 ppb	95.529 %	96.083 %	0.154 ppb	0.333 ppb	87.389 %
Concentration per Run 1	73.542 ppb	92.109 %	92.591 %	0.094 ppb	0.334 ppb	87.090 %
Concentration per Run 2	72.746 ppb	93.341 %	93.366 %	0.190 ppb	0.340 ppb	85.151 %
Concentration per Run 3	70.873 ppb	101.139 %	102.291 %	0.179 ppb	0.325 ppb	89.925 %
Concentration RSD	1.9 %	5.1 %	5.6 %	33.9 %	2.2 %	2.7 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	64	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-01 6020TL	Rack	2		
Analysis started at:	12/6/2023 8:25:24 PM	Vial	21		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.511 %	89.729 %	0.237 ppb	83,767.346 ppb	6,674.566 ppb	170.227 ppb	3,826.905 ppb	30,714.063 ppb	107.502 %
Concentration per Run 1	102.200 %	85.659 %	0.238 ppb	89,231.335 ppb	7,007.732 ppb	178.388 ppb	3,973.791 ppb	32,388.552 ppb	107.396 %
Concentration per Run 2	100.516 %	91.860 %	0.238 ppb	78,596.015 ppb	6,237.809 ppb	161.053 ppb	3,751.283 ppb	28,680.452 ppb	107.209 %
Concentration per Run 3	98.819 %	91.667 %	0.236 ppb	83,474.687 ppb	6,778.156 ppb	171.240 ppb	3,755.639 ppb	31,073.185 ppb	107.902 %
Concentration RSD	1.7 %	3.9 %	0.5 %	6.4 %	5.9 %	5.1 %	3.3 %	6.1 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.212 ppb	4.772 ppb	496.400 ppb	255.799 ppb	4.972 ppb	2.987 ppb	7.708 ppb	6,682.117 ppb	98.639 %
Concentration per Run 1	0.171 ppb	4.776 ppb	494.849 ppb	258.583 ppb	5.108 ppb	3.076 ppb	7.927 ppb	6,872.551 ppb	96.858 %
Concentration per Run 2	0.216 ppb	4.902 ppb	493.487 ppb	248.325 ppb	4.958 ppb	3.202 ppb	7.852 ppb	6,872.026 ppb	94.745 %
Concentration per Run 3	0.248 ppb	4.637 ppb	500.864 ppb	260.488 ppb	4.850 ppb	2.682 ppb	7.346 ppb	6,301.775 ppb	104.312 %
Concentration RSD	18.3 %	2.8 %	0.8 %	2.6 %	2.6 %	9.1 %	4.1 %	4.9 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.480 ppb	3.294 ppb	170.417 ppb	0.266 ppb	92.843 %	0.030 ppb	0.484 ppb	97.776 %	0.334 ppb
Concentration per Run 1	0.596 ppb	3.166 ppb	175.653 ppb	0.222 ppb	89.085 %	0.028 ppb	0.495 ppb	91.601 %	0.317 ppb
Concentration per Run 2	0.486 ppb	3.281 ppb	165.467 ppb	0.307 ppb	92.618 %	0.029 ppb	0.457 ppb	94.635 %	0.332 ppb
Concentration per Run 3	0.358 ppb	3.434 ppb	170.132 ppb	0.268 ppb	96.827 %	0.033 ppb	0.501 ppb	107.092 %	0.353 ppb
Concentration RSD	24.9 %	4.1 %	3.0 %	16.0 %	4.2 %	10.1 %	4.9 %	8.4 %	5.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	45.566 ppb	98.783 %	97.680 %	0.156 ppb	0.317 ppb	90.891 %
Concentration per Run 1	49.119 ppb	94.879 %	92.966 %	0.115 ppb	0.309 ppb	90.929 %
Concentration per Run 2	45.015 ppb	97.174 %	94.646 %	0.169 ppb	0.321 ppb	90.107 %
Concentration per Run 3	42.563 ppb	104.294 %	105.430 %	0.183 ppb	0.322 ppb	91.637 %
Concentration RSD	7.3 %	5.0 %	6.9 %	23.3 %	2.2 %	0.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	65	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-02 6020TL	Rack	2		
Analysis started at:	12/6/2023 8:30:03 PM	Vial	22		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.830 %	92.894 %	0.017 ppb	97,653.965 ppb	5,654.974 ppb	165.986 ppb	3,887.581 ppb	33,638.708 ppb	106.543 %
Concentration per Run 1	102.189 %	91.860 %	0.012 ppb	100,268.677 ppb	5,877.905 ppb	169.521 ppb	3,928.477 ppb	35,412.520 ppb	109.245 %
Concentration per Run 2	100.559 %	86.240 %	0.016 ppb	99,432.540 ppb	5,770.073 ppb	174.533 ppb	4,010.438 ppb	33,464.632 ppb	107.299 %
Concentration per Run 3	96.742 %	100.581 %	0.025 ppb	93,260.679 ppb	5,316.944 ppb	153.906 ppb	3,723.829 ppb	32,038.972 ppb	103.084 %
Concentration RSD	2.8 %	7.8 %	39.7 %	3.9 %	5.3 %	6.5 %	3.8 %	5.0 %	3.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.484 ppb	52.509 ppb	10.056 ppb	112.116 ppb	0.396 ppb	0.354 ppb	1.057 ppb	320.614 ppb	98.228 %
Concentration per Run 1	0.403 ppb	52.284 ppb	9.574 ppb	118.111 ppb	0.424 ppb	0.259 ppb	1.138 ppb	329.502 ppb	94.678 %
Concentration per Run 2	0.629 ppb	52.931 ppb	10.335 ppb	106.579 ppb	0.401 ppb	0.377 ppb	1.030 ppb	325.135 ppb	98.891 %
Concentration per Run 3	0.419 ppb	52.312 ppb	10.259 ppb	111.658 ppb	0.364 ppb	0.426 ppb	1.004 ppb	307.206 ppb	101.114 %
Concentration RSD	26.2 %	0.7 %	4.2 %	5.2 %	7.6 %	24.2 %	6.8 %	3.7 %	3.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.297 ppb	0.968 ppb	160.067 ppb	0.307 ppb	94.070 %	0.019 ppb	0.039 ppb	95.834 %	0.335 ppb
Concentration per Run 1	0.246 ppb	1.101 ppb	163.258 ppb	0.230 ppb	90.846 %	0.013 ppb	0.027 ppb	90.703 %	0.339 ppb
Concentration per Run 2	0.266 ppb	0.723 ppb	160.086 ppb	0.314 ppb	93.803 %	0.016 ppb	0.038 ppb	98.369 %	0.324 ppb
Concentration per Run 3	0.380 ppb	1.079 ppb	156.858 ppb	0.378 ppb	97.561 %	0.027 ppb	0.051 ppb	98.430 %	0.343 ppb
Concentration RSD	24.4 %	21.9 %	2.0 %	24.2 %	3.6 %	37.4 %	31.3 %	4.6 %	3.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	73.636 ppb	99.203 %	99.873 %	0.073 ppb	0.290 ppb	91.693 %
Concentration per Run 1	77.462 ppb	95.330 %	96.641 %	0.044 ppb	0.281 ppb	91.144 %
Concentration per Run 2	72.269 ppb	100.215 %	102.562 %	0.088 ppb	0.295 ppb	90.277 %
Concentration per Run 3	71.177 ppb	102.065 %	100.417 %	0.087 ppb	0.294 ppb	93.658 %
Concentration RSD	4.6 %	3.5 %	3.0 %	34.4 %	2.7 %	1.9 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	66	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-03 6020TL	Rack	2		
Analysis started at:	12/6/2023 8:34:42 PM	Vial	23		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.738 %	92.959 %	0.143 ppb	115,679.878 ppb	5,681.053 ppb	1,980.067 ppb	3,977.683 ppb	26,206.919 ppb	109.760 %
Concentration per Run 1	101.566 %	94.186 %	0.142 ppb	112,089.706 ppb	5,473.657 ppb	1,956.651 ppb	3,956.394 ppb	25,670.343 ppb	111.722 %
Concentration per Run 2	99.088 %	89.341 %	0.147 ppb	122,442.945 ppb	6,090.469 ppb	2,099.047 ppb	4,195.477 ppb	27,727.504 ppb	108.784 %
Concentration per Run 3	95.558 %	95.349 %	0.141 ppb	112,506.983 ppb	5,479.033 ppb	1,884.504 ppb	3,781.179 ppb	25,222.908 ppb	108.774 %
Concentration RSD	3.1 %	3.4 %	2.5 %	5.1 %	6.2 %	5.5 %	5.2 %	5.1 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	3.226 ppb	33.286 ppb	287.657 ppb	3,005.011 ppb	3.647 ppb	3.618 ppb	5.036 ppb	**4,348.272 ppb**	99.857 %
Concentration per Run 1	3.468 ppb	33.735 ppb	286.359 ppb	2,903.480 ppb	3.655 ppb	3.674 ppb	5.126 ppb	4,486.255 ppb	92.553 %
Concentration per Run 2	3.260 ppb	33.893 ppb	295.936 ppb	2,866.728 ppb	3.686 ppb	3.640 ppb	5.158 ppb	4,328.186 ppb	103.776 %
Concentration per Run 3	2.950 ppb	32.230 ppb	280.676 ppb	3,244.826 ppb	3.599 ppb	3.540 ppb	4.825 ppb	4,230.376 ppb	103.243 %
Concentration RSD	8.1 %	2.8 %	2.7 %	6.9 %	1.2 %	1.9 %	3.6 %	3.0 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.923 ppb	2.249 ppb	197.397 ppb	0.215 ppb	94.195 %	0.017 ppb	0.178 ppb	101.833 %	0.202 ppb
Concentration per Run 1	1.263 ppb	2.421 ppb	198.158 ppb	0.150 ppb	90.143 %	0.013 ppb	0.187 ppb	94.359 %	0.218 ppb
Concentration per Run 2	0.830 ppb	2.253 ppb	204.887 ppb	0.276 ppb	95.780 %	0.019 ppb	0.161 ppb	109.443 %	0.197 ppb
Concentration per Run 3	0.675 ppb	2.074 ppb	189.148 ppb	0.220 ppb	96.662 %	0.021 ppb	0.185 ppb	101.698 %	0.193 ppb
Concentration RSD	33.0 %	7.7 %	4.0 %	29.4 %	3.8 %	23.7 %	8.0 %	7.4 %	6.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	99.717 ppb	101.251 %	102.487 %	0.073 ppb	2.113 ppb	91.211 %
Concentration per Run 1	99.570 ppb	97.595 %	97.559 %	0.049 ppb	2.121 ppb	89.821 %
Concentration per Run 2	102.419 ppb	105.680 %	107.202 %	0.084 ppb	2.112 ppb	93.636 %
Concentration per Run 3	97.162 ppb	100.480 %	102.700 %	0.086 ppb	2.107 ppb	90.176 %
Concentration RSD	2.6 %	4.0 %	4.7 %	28.8 %	0.3 %	2.3 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	67	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 8:39:22 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.617 %	95.995 %	61.113 ppb	7,334.631 ppb	6,217.523 ppb	63.010 ppb	6,158.196 ppb	6,111.948 ppb	109.146 %
Concentration per Run 1	99.105 %	92.442 %	60.591 ppb	7,866.952 ppb	6,252.518 ppb	61.341 ppb	6,259.815 ppb	6,258.159 ppb	108.872 %
Concentration per Run 2	96.753 %	93.411 %	61.277 ppb	7,960.682 ppb	6,454.429 ppb	66.993 ppb	6,399.785 ppb	6,369.357 ppb	107.729 %
Concentration per Run 3	96.994 %	102.132 %	61.470 ppb	6,176.258 ppb	5,945.623 ppb	60.698 ppb	5,814.988 ppb	5,708.329 ppb	110.837 %
Recovery Percentage 1			101.854 %	122.244 %	103.625 %	105.017 %	102.637 %	101.866 %	
Concentration RSD	1.3 %	5.6 %	0.8 %	13.7 %	4.1 %	5.5 %	5.0 %	5.8 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	59.481 ppb	59.479 ppb	61.685 ppb	6,154.615 ppb	61.930 ppb	61.977 ppb	61.178 ppb	60.827 ppb	99.385 %
Concentration per Run 1	63.101 ppb	60.683 ppb	62.162 ppb	6,408.941 ppb	65.290 ppb	65.153 ppb	64.112 ppb	63.802 ppb	92.303 %
Concentration per Run 2	58.154 ppb	60.360 ppb	63.182 ppb	5,996.284 ppb	58.953 ppb	58.631 ppb	58.218 ppb	57.384 ppb	106.993 %
Concentration per Run 3	57.189 ppb	57.395 ppb	59.713 ppb	6,058.619 ppb	61.547 ppb	62.146 ppb	61.204 ppb	61.296 ppb	98.860 %
Recovery Percentage 1	99.136 %	99.132 %	102.809 %	102.577 %	103.217 %	103.295 %	101.963 %	101.379 %	
Concentration RSD	5.3 %	3.0 %	2.9 %	3.6 %	5.1 %	5.3 %	4.8 %	5.3 %	7.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	62.291 ppb	60.637 ppb	58.293 ppb	59.751 ppb	98.034 %	60.410 ppb	60.131 ppb	102.750 %	60.279 ppb
Concentration per Run 1	64.682 ppb	62.326 ppb	59.711 ppb	60.711 ppb	92.135 %	62.921 ppb	63.054 ppb	95.976 %	63.209 ppb
Concentration per Run 2	59.490 ppb	60.886 ppb	58.943 ppb	57.404 ppb	101.844 %	58.338 ppb	58.935 ppb	109.625 %	58.663 ppb
Concentration per Run 3	62.702 ppb	58.699 ppb	56.224 ppb	61.139 ppb	100.124 %	59.970 ppb	58.403 ppb	102.649 %	58.965 ppb
Recovery Percentage 1	103.819 %	101.061 %	97.154 %	99.586 %		100.683 %	100.218 %		100.465 %
Concentration RSD	4.2 %	3.0 %	3.1 %	3.4 %	5.3 %	3.8 %	4.2 %	6.6 %	4.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	56.637 ppb	100.280 %	99.511 %	57.888 ppb	58.760 ppb	96.722 %
Concentration per Run 1	56.473 ppb	94.368 %	94.717 %	57.172 ppb	58.959 ppb	95.544 %
Concentration per Run 2	57.462 ppb	104.862 %	104.228 %	56.974 ppb	59.186 ppb	97.544 %
Concentration per Run 3	55.976 ppb	101.612 %	99.589 %	59.517 ppb	58.134 ppb	97.077 %
Recovery Percentage 1	94.395 %			96.480 %	97.933 %	
Concentration RSD	1.3 %	5.4 %	4.8 %	2.4 %	0.9 %	1.1 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	68	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 8:44:04 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.959 %	93.734 %	0.008 ppb	31.158 ppb	1.199 ppb	0.404 ppb	1.622 ppb	10.494 ppb	99.106 %
Concentration per Run 1	99.818 %	86.628 %	0.007 ppb	52.870 ppb	1.593 ppb	0.536 ppb	10.302 ppb	7.481 ppb	100.541 %
Concentration per Run 2	95.891 %	99.031 %	0.009 ppb	17.305 ppb	0.423 ppb	0.250 ppb	-0.127 ppb	12.141 ppb	97.723 %
Concentration per Run 3	95.168 %	95.543 %	0.010 ppb	23.298 ppb	1.582 ppb	0.425 ppb	-5.309 ppb	11.860 ppb	99.055 %
Recovery Percentage 1			1.696 %	31.158 %	1.713 %	4.038 %	1.622 %	10.494 %	
Concentration RSD	2.6 %	6.8 %	22.2 %	61.1 %	56.0 %	35.7 %	490.2 %	24.9 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.021 ppb	0.050 ppb	0.052 ppb	8.701 ppb	0.001 ppb	0.052 ppb	0.048 ppb	-0.330 ppb	94.525 %
Concentration per Run 1	-0.029 ppb	0.089 ppb	0.049 ppb	11.527 ppb	0.002 ppb	0.080 ppb	0.061 ppb	-0.307 ppb	85.897 %
Concentration per Run 2	-0.020 ppb	0.047 ppb	0.042 ppb	6.675 ppb	-0.002 ppb	0.026 ppb	0.036 ppb	-0.315 ppb	96.660 %
Concentration per Run 3	-0.013 ppb	0.013 ppb	0.064 ppb	7.902 ppb	0.002 ppb	0.049 ppb	0.048 ppb	-0.367 ppb	101.019 %
Recovery Percentage 1	-0.414 %	4.989 %	5.181 %	17.402 %	0.202 %	2.580 %	4.813 %	-6.597 %	
Concentration RSD	37.4 %	76.3 %	21.5 %	29.0 %	238.8 %	52.2 %	26.6 %	9.8 %	8.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.132 ppb	0.358 ppb	0.001 ppb	0.645 ppb	95.806 %	0.026 ppb	0.001 ppb	94.760 %	0.098 ppb
Concentration per Run 1	0.233 ppb	0.711 ppb	0.015 ppb	0.589 ppb	90.416 %	0.014 ppb	0.003 ppb	92.165 %	0.106 ppb
Concentration per Run 2	0.117 ppb	0.211 ppb	-0.003 ppb	0.660 ppb	96.527 %	0.030 ppb	0.001 ppb	92.671 %	0.079 ppb
Concentration per Run 3	0.046 ppb	0.153 ppb	-0.008 ppb	0.684 ppb	100.476 %	0.033 ppb	-0.001 ppb	99.443 %	0.109 ppb
Recovery Percentage 1	26.406 %	7.162 %	0.011 %	32.234 %		6.414 %	0.411 %		2.451 %
Concentration RSD	71.6 %	85.7 %	1,091.7 %	7.7 %	5.3 %	40.4 %	263.5 %	4.3 %	16.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.001 ppb	94.323 %	93.626 %	0.506 ppb	0.014 ppb	90.510 %
Concentration per Run 1	-0.014 ppb	89.771 %	88.970 %	0.383 ppb	0.016 ppb	90.184 %
Concentration per Run 2	0.016 ppb	94.591 %	92.425 %	0.603 ppb	0.016 ppb	89.371 %
Concentration per Run 3	0.000 ppb	98.606 %	99.482 %	0.533 ppb	0.011 ppb	91.975 %
Recovery Percentage 1	0.136 %			50.634 %	1.420 %	
Concentration RSD	2,197.7 %	4.7 %	5.7 %	22.3 %	22.0 %	1.5 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	69	User name	ALPHALAB\Metals-Instrument	Comment	fb
Analysis label:	L2371017-11 6020TL	Rack	2		
Analysis started at:	12/6/2023 8:49:36 PM	Vial	30		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.083 %	93.152 %	0.006 ppb	27.735 ppb	1.562 ppb	1.361 ppb	3.575 ppb	4.232 ppb	106.428 %
Concentration per Run 1	105.860 %	85.853 %	0.003 ppb	36.992 ppb	3.156 ppb	1.856 ppb	9.708 ppb	13.728 ppb	107.277 %
Concentration per Run 2	102.894 %	91.473 %	0.010 ppb	32.790 ppb	0.501 ppb	1.458 ppb	-0.427 ppb	-0.834 ppb	107.164 %
Concentration per Run 3	100.495 %	102.132 %	0.005 ppb	13.423 ppb	1.029 ppb	0.769 ppb	1.446 ppb	-0.196 ppb	104.841 %
Concentration RSD	2.6 %	8.9 %	57.0 %	45.3 %	90.0 %	40.4 %	150.8 %	194.4 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.034 ppb	0.057 ppb	-0.060 ppb	3.468 ppb	-0.002 ppb	-0.034 ppb	0.011 ppb	-0.517 ppb	98.224 %
Concentration per Run 1	-0.022 ppb	0.062 ppb	-0.100 ppb	3.361 ppb	-0.004 ppb	-0.038 ppb	0.021 ppb	-0.471 ppb	90.367 %
Concentration per Run 2	-0.050 ppb	0.053 ppb	-0.063 ppb	3.693 ppb	-0.003 ppb	-0.041 ppb	-0.013 ppb	-0.525 ppb	99.874 %
Concentration per Run 3	-0.030 ppb	0.056 ppb	-0.018 ppb	3.349 ppb	0.002 ppb	-0.024 ppb	0.024 ppb	-0.554 ppb	104.431 %
Concentration RSD	41.3 %	8.0 %	68.3 %	5.6 %	180.5 %	27.4 %	189.2 %	8.1 %	7.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.051 ppb	-0.006 ppb	0.348 ppb	0.212 ppb	98.417 %	0.010 ppb	0.001 ppb	97.325 %	0.082 ppb
Concentration per Run 1	0.068 ppb	-0.054 ppb	0.354 ppb	0.118 ppb	92.382 %	0.008 ppb	0.005 ppb	89.754 %	0.059 ppb
Concentration per Run 2	0.090 ppb	0.059 ppb	0.348 ppb	0.250 ppb	100.468 %	0.008 ppb	-0.001 ppb	100.217 %	0.101 ppb
Concentration per Run 3	-0.006 ppb	-0.023 ppb	0.344 ppb	0.269 ppb	102.403 %	0.013 ppb	-0.001 ppb	102.003 %	0.086 ppb
Concentration RSD	99.6 %	1,001.7 %	1.4 %	38.6 %	5.4 %	32.8 %	439.3 %	6.8 %	26.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.500 ppb	99.246 %	97.108 %	0.138 ppb	0.003 ppb	101.475 %
Concentration per Run 1	0.693 ppb	91.744 %	86.688 %	0.078 ppb	0.003 ppb	103.559 %
Concentration per Run 2	0.385 ppb	102.509 %	101.589 %	0.172 ppb	0.003 ppb	101.342 %
Concentration per Run 3	0.421 ppb	103.486 %	103.048 %	0.164 ppb	0.002 ppb	99.523 %
Concentration RSD	33.7 %	6.6 %	9.3 %	37.7 %	29.2 %	2.0 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	70	User name	ALPHALAB\Metals-Instrument	Comment	fb
Analysis label:	L2371017-12 6020TL	Rack	2		
Analysis started at:	12/6/2023 8:54:15 PM	Vial	31		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	103.346 %	93.346 %	-0.003 ppb	30.444 ppb	4.380 ppb	1.704 ppb	-0.989 ppb	14.388 ppb	105.614 %
Concentration per Run 1	105.860 %	96.705 %	-0.002 ppb	34.102 ppb	4.023 ppb	1.440 ppb	1.192 ppb	15.346 ppb	106.867 %
Concentration per Run 2	103.646 %	87.597 %	-0.002 ppb	38.449 ppb	4.669 ppb	2.449 ppb	5.625 ppb	17.399 ppb	104.994 %
Concentration per Run 3	100.531 %	95.736 %	-0.005 ppb	18.782 ppb	4.449 ppb	1.223 ppb	-9.784 ppb	10.421 ppb	104.982 %
Concentration RSD	2.6 %	5.4 %	67.4 %	33.9 %	7.5 %	38.4 %	801.9 %	24.9 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.042 ppb	0.095 ppb	-0.062 ppb	2.387 ppb	-0.001 ppb	0.051 ppb	0.060 ppb	-0.634 ppb	97.684 %
Concentration per Run 1	-0.019 ppb	0.127 ppb	-0.035 ppb	1.972 ppb	0.001 ppb	0.064 ppb	0.059 ppb	-0.608 ppb	95.848 %
Concentration per Run 2	-0.049 ppb	0.097 ppb	-0.075 ppb	2.485 ppb	0.003 ppb	0.064 ppb	0.054 ppb	-0.621 ppb	98.468 %
Concentration per Run 3	-0.057 ppb	0.062 ppb	-0.076 ppb	2.704 ppb	-0.006 ppb	0.025 ppb	0.067 ppb	-0.673 ppb	98.735 %
Concentration RSD	48.3 %	34.5 %	37.3 %	15.7 %	689.9 %	43.7 %	11.3 %	5.4 %	1.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.078 ppb	-0.054 ppb	0.434 ppb	0.094 ppb	97.542 %	0.007 ppb	0.001 ppb	99.110 %	0.062 ppb
Concentration per Run 1	0.186 ppb	-0.073 ppb	0.441 ppb	0.064 ppb	95.780 %	0.004 ppb	0.001 ppb	98.489 %	0.046 ppb
Concentration per Run 2	-0.007 ppb	-0.067 ppb	0.433 ppb	0.070 ppb	98.526 %	0.008 ppb	-0.001 ppb	103.920 %	0.049 ppb
Concentration per Run 3	0.054 ppb	-0.022 ppb	0.426 ppb	0.147 ppb	98.319 %	0.011 ppb	0.003 ppb	94.921 %	0.089 ppb
Concentration RSD	126.8 %	51.9 %	1.7 %	49.3 %	1.6 %	46.8 %	283.4 %	4.6 %	39.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.421 ppb	98.223 %	97.818 %	0.075 ppb	0.002 ppb	95.621 %
Concentration per Run 1	0.476 ppb	95.393 %	97.826 %	0.033 ppb	0.002 ppb	94.738 %
Concentration per Run 2	0.328 ppb	100.361 %	101.053 %	0.086 ppb	0.002 ppb	96.549 %
Concentration per Run 3	0.461 ppb	98.916 %	94.575 %	0.106 ppb	0.003 ppb	95.577 %
Concentration RSD	19.4 %	2.6 %	3.3 %	50.2 %	24.4 %	0.9 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	71	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-04 6020TL	Rack	2		
Analysis started at:	12/6/2023 8:58:54 PM	Vial	24		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.411 %	95.026 %	0.025 ppb	80,458.186 ppb	10,101.123 ppb	333.157 ppb	1,728.756 ppb	39,604.539 ppb	108.462 %
Concentration per Run 1	100.894 %	101.938 %	0.026 ppb	76,870.024 ppb	9,626.094 ppb	315.858 ppb	1,774.891 ppb	39,059.608 ppb	108.847 %
Concentration per Run 2	98.427 %	91.667 %	0.023 ppb	84,485.348 ppb	10,454.765 ppb	342.729 ppb	1,777.903 ppb	40,555.752 ppb	107.704 %
Concentration per Run 3	95.912 %	91.473 %	0.027 ppb	80,019.186 ppb	10,222.511 ppb	340.884 ppb	1,633.475 ppb	39,198.258 ppb	108.835 %
Concentration RSD	2.5 %	6.3 %	7.0 %	4.8 %	4.2 %	4.5 %	4.8 %	2.1 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.234 ppb	1.612 ppb	56.418 ppb	1,183.663 ppb	0.477 ppb	0.993 ppb	2.536 ppb	47.331 ppb	99.952 %
Concentration per Run 1	1.222 ppb	1.540 ppb	55.960 ppb	1,130.914 ppb	0.437 ppb	0.948 ppb	2.383 ppb	46.046 ppb	102.727 %
Concentration per Run 2	1.171 ppb	1.640 ppb	58.056 ppb	1,210.108 ppb	0.526 ppb	0.975 ppb	2.657 ppb	48.102 ppb	100.215 %
Concentration per Run 3	1.308 ppb	1.655 ppb	55.238 ppb	1,209.966 ppb	0.468 ppb	1.056 ppb	2.567 ppb	47.846 ppb	96.915 %
Concentration RSD	5.6 %	3.9 %	2.6 %	3.9 %	9.4 %	5.7 %	5.5 %	2.4 %	2.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.298 ppb	0.459 ppb	183.614 ppb	0.186 ppb	96.378 %	0.017 ppb	0.025 ppb	99.742 %	0.157 ppb
Concentration per Run 1	0.225 ppb	0.523 ppb	187.955 ppb	0.173 ppb	95.041 %	0.012 ppb	0.029 ppb	101.666 %	0.134 ppb
Concentration per Run 2	0.398 ppb	0.466 ppb	186.874 ppb	0.243 ppb	97.582 %	0.021 ppb	0.025 ppb	100.543 %	0.171 ppb
Concentration per Run 3	0.269 ppb	0.387 ppb	176.012 ppb	0.142 ppb	96.511 %	0.016 ppb	0.021 ppb	97.016 %	0.167 ppb
Concentration RSD	30.3 %	14.9 %	3.6 %	27.8 %	1.3 %	28.0 %	14.9 %	2.4 %	12.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	16.873 ppb	100.955 %	99.771 %	0.057 ppb	1.967 ppb	97.451 %
Concentration per Run 1	16.791 ppb	101.677 %	100.135 %	0.027 ppb	1.865 ppb	101.723 %
Concentration per Run 2	17.197 ppb	99.946 %	99.939 %	0.071 ppb	1.990 ppb	97.125 %
Concentration per Run 3	16.630 ppb	101.243 %	99.241 %	0.074 ppb	2.046 ppb	93.504 %
Concentration RSD	1.7 %	0.9 %	0.5 %	46.2 %	4.7 %	4.2 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	72	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-06 6020TL	Rack	2		
Analysis started at:	12/6/2023 9:03:34 PM	Vial	25		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.481 %	93.734 %	0.016 ppb	68,497.981 ppb	14,309.264 ppb	180.696 ppb	2,331.617 ppb	40,578.625 ppb	105.577 %
Concentration per Run 1	98.548 %	92.829 %	0.009 ppb	71,387.774 ppb	14,830.872 ppb	191.288 ppb	2,399.141 ppb	42,431.068 ppb	106.946 %
Concentration per Run 2	97.036 %	90.504 %	0.024 ppb	69,356.639 ppb	14,505.339 ppb	183.128 ppb	2,393.457 ppb	40,085.603 ppb	105.383 %
Concentration per Run 3	93.858 %	97.868 %	0.014 ppb	64,749.530 ppb	13,591.582 ppb	167.673 ppb	2,202.255 ppb	39,219.204 ppb	104.404 %
Concentration RSD	2.5 %	4.0 %	49.3 %	5.0 %	4.5 %	6.6 %	4.8 %	4.1 %	1.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.570 ppb	0.410 ppb	10,899.922 ppb	287.047 ppb	2.805 ppb	3.069 ppb	1.081 ppb	3.270 ppb	102.915 %
Concentration per Run 1	0.710 ppb	0.445 ppb	10,927.958 ppb	298.723 ppb	2.915 ppb	3.119 ppb	1.104 ppb	3.375 ppb	98.947 %
Concentration per Run 2	0.511 ppb	0.385 ppb	11,080.277 ppb	276.906 ppb	2.845 ppb	3.107 ppb	1.043 ppb	3.413 ppb	103.016 %
Concentration per Run 3	0.489 ppb	0.402 ppb	10,691.532 ppb	285.512 ppb	2.657 ppb	2.980 ppb	1.098 ppb	3.021 ppb	106.782 %
Concentration RSD	21.4 %	7.5 %	1.8 %	3.8 %	4.8 %	2.5 %	3.1 %	6.6 %	3.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.241 ppb	0.283 ppb	275.885 ppb	0.050 ppb	97.320 %	0.011 ppb	0.400 ppb	102.016 %	0.057 ppb
Concentration per Run 1	0.264 ppb	0.104 ppb	285.355 ppb	0.065 ppb	94.102 %	0.004 ppb	0.428 ppb	100.781 %	0.059 ppb
Concentration per Run 2	0.327 ppb	0.348 ppb	272.019 ppb	0.051 ppb	98.237 %	0.012 ppb	0.404 ppb	102.887 %	0.058 ppb
Concentration per Run 3	0.132 ppb	0.398 ppb	270.281 ppb	0.036 ppb	99.622 %	0.017 ppb	0.369 ppb	102.382 %	0.053 ppb
Concentration RSD	41.2 %	55.5 %	3.0 %	29.1 %	3.0 %	56.2 %	7.5 %	1.1 %	6.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	42.079 ppb	104.217 %	103.383 %	0.038 ppb	0.388 ppb	94.798 %
Concentration per Run 1	43.588 ppb	100.703 %	101.381 %	0.007 ppb	0.374 ppb	96.352 %
Concentration per Run 2	41.651 ppb	104.476 %	103.836 %	0.050 ppb	0.401 ppb	92.896 %
Concentration per Run 3	40.997 ppb	107.471 %	104.931 %	0.059 ppb	0.390 ppb	95.147 %
Concentration RSD	3.2 %	3.3 %	1.8 %	71.7 %	3.6 %	1.9 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	73	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-07 6020TL	Rack	2		
Analysis started at:	12/6/2023 9:08:41 PM	Vial	26		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.647 %	99.289 %	0.010 ppb	68,609.658 ppb	2,279.553 ppb	6.742 ppb	6,632.598 ppb	14,057.024 ppb	105.295 %
Concentration per Run 1	100.920 %	87.984 %	0.010 ppb	73,797.999 ppb	2,464.373 ppb	6.821 ppb	6,995.880 ppb	14,874.384 ppb	105.610 %
Concentration per Run 2	98.493 %	104.651 %	0.011 ppb	65,499.201 ppb	2,219.526 ppb	6.922 ppb	6,467.610 ppb	13,689.097 ppb	105.648 %
Concentration per Run 3	96.529 %	105.233 %	0.010 ppb	66,531.775 ppb	2,154.760 ppb	6.482 ppb	6,434.304 ppb	13,607.590 ppb	104.629 %
Concentration RSD	2.2 %	9.9 %	8.8 %	6.6 %	7.2 %	3.4 %	4.8 %	5.0 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.044 ppb	151.664 ppb	65.534 ppb	2.494 ppb	4.351 ppb	2.453 ppb	3.340 ppb	25,174.609 ppb	102.881 %
Concentration per Run 1	0.035 ppb	161.151 ppb	69.286 ppb	1.802 ppb	4.581 ppb	2.508 ppb	3.445 ppb	25,986.453 ppb	98.907 %
Concentration per Run 2	0.045 ppb	143.100 ppb	60.791 ppb	2.368 ppb	4.184 ppb	2.441 ppb	3.334 ppb	24,934.682 ppb	105.428 %
Concentration per Run 3	0.053 ppb	150.740 ppb	66.524 ppb	3.313 ppb	4.288 ppb	2.411 ppb	3.240 ppb	24,602.692 ppb	104.307 %
Concentration RSD	19.8 %	6.0 %	6.6 %	30.6 %	4.7 %	2.0 %	3.1 %	2.9 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.044 ppb	0.801 ppb	79.773 ppb	0.083 ppb	95.916 %	0.013 ppb	0.184 ppb	101.002 %	0.082 ppb
Concentration per Run 1	0.201 ppb	0.914 ppb	81.818 ppb	0.061 ppb	92.882 %	0.018 ppb	0.195 ppb	96.085 %	0.070 ppb
Concentration per Run 2	-0.068 ppb	0.827 ppb	78.473 ppb	0.092 ppb	96.937 %	0.011 ppb	0.179 ppb	100.588 %	0.089 ppb
Concentration per Run 3	-0.002 ppb	0.662 ppb	79.026 ppb	0.096 ppb	97.929 %	0.009 ppb	0.179 ppb	106.333 %	0.087 ppb
Concentration RSD	322.3 %	16.0 %	2.2 %	22.6 %	2.8 %	37.4 %	5.1 %	5.1 %	12.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	32.732 ppb	101.586 %	101.450 %	0.070 ppb	0.301 ppb	98.176 %
Concentration per Run 1	34.842 ppb	97.854 %	99.597 %	0.055 ppb	0.291 ppb	101.282 %
Concentration per Run 2	32.326 ppb	104.123 %	102.554 %	0.075 ppb	0.302 ppb	96.479 %
Concentration per Run 3	31.030 ppb	102.781 %	102.200 %	0.081 ppb	0.309 ppb	96.766 %
Concentration RSD	5.9 %	3.2 %	1.6 %	19.8 %	2.9 %	2.7 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	74	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-08 6020TL	Rack	2		
Analysis started at:	12/6/2023 9:13:19 PM	Vial	27		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	100.366 %	100.969 %	0.014 ppb	28,984.049 ppb	4,459.085 ppb	76.814 ppb	3,718.769 ppb	27,849.190 ppb	106.584 %
Concentration per Run 1	101.859 %	100.000 %	0.010 ppb	29,424.146 ppb	4,505.468 ppb	76.527 ppb	3,678.232 ppb	28,280.594 ppb	107.146 %
Concentration per Run 2	100.752 %	102.519 %	0.012 ppb	28,400.844 ppb	4,282.739 ppb	77.666 ppb	3,765.861 ppb	27,431.409 ppb	106.482 %
Concentration per Run 3	98.486 %	100.388 %	0.020 ppb	29,127.157 ppb	4,589.047 ppb	76.250 ppb	3,712.213 ppb	27,835.568 ppb	106.125 %
Concentration RSD	1.7 %	1.3 %	38.1 %	1.8 %	3.6 %	1.0 %	1.2 %	1.5 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.661 ppb	2.911 ppb	581.810 ppb	1,122.473 ppb	0.822 ppb	3.670 ppb	13.258 ppb	507.944 ppb	96.761 %
Concentration per Run 1	0.624 ppb	2.949 ppb	578.703 ppb	1,151.463 ppb	0.841 ppb	3.601 ppb	13.646 ppb	512.066 ppb	93.022 %
Concentration per Run 2	0.794 ppb	2.932 ppb	598.426 ppb	1,134.945 ppb	0.779 ppb	3.805 ppb	13.470 ppb	519.907 ppb	95.086 %
Concentration per Run 3	0.566 ppb	2.853 ppb	568.300 ppb	1,081.012 ppb	0.847 ppb	3.603 ppb	12.657 ppb	491.858 ppb	102.176 %
Concentration RSD	17.9 %	1.8 %	2.6 %	3.3 %	4.6 %	3.2 %	4.0 %	2.8 %	5.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.616 ppb	0.292 ppb	118.337 ppb	1.294 ppb	97.052 %	0.027 ppb	0.108 ppb	99.861 %	0.968 ppb
Concentration per Run 1	0.896 ppb	0.408 ppb	120.797 ppb	1.295 ppb	92.318 %	0.026 ppb	0.121 ppb	92.396 %	1.027 ppb
Concentration per Run 2	0.465 ppb	0.344 ppb	118.550 ppb	1.342 ppb	97.791 %	0.027 ppb	0.104 ppb	100.392 %	0.940 ppb
Concentration per Run 3	0.487 ppb	0.124 ppb	115.663 ppb	1.243 ppb	101.046 %	0.027 ppb	0.099 ppb	106.795 %	0.937 ppb
Concentration RSD	39.4 %	51.0 %	2.2 %	3.8 %	4.5 %	3.7 %	10.7 %	7.2 %	5.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	19.608 ppb	100.643 %	100.158 %	0.045 ppb	9.599 ppb	93.870 %
Concentration per Run 1	22.312 ppb	94.052 %	93.792 %	0.024 ppb	9.621 ppb	93.071 %
Concentration per Run 2	18.022 ppb	103.311 %	104.410 %	0.052 ppb	9.586 ppb	93.993 %
Concentration per Run 3	18.491 ppb	104.565 %	102.274 %	0.059 ppb	9.589 ppb	94.545 %
Concentration RSD	12.0 %	5.7 %	5.6 %	41.5 %	0.2 %	0.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	75	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-09 6020TL	Rack	2		
Analysis started at:	12/6/2023 9:17:59 PM	Vial	28		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.653 %	94.121 %	0.021 ppb	88,542.575 ppb	21,546.610 ppb	368.103 ppb	3,154.169 ppb	73,133.089 ppb	104.737 %
Concentration per Run 1	96.677 %	96.705 %	0.016 ppb	83,665.846 ppb	21,088.666 ppb	355.087 ppb	3,160.116 ppb	70,861.085 ppb	106.075 %
Concentration per Run 2	94.591 %	88.566 %	0.028 ppb	93,038.856 ppb	23,321.891 ppb	382.913 ppb	3,216.777 ppb	74,891.932 ppb	104.981 %
Concentration per Run 3	92.690 %	97.093 %	0.021 ppb	88,923.024 ppb	20,229.274 ppb	366.309 ppb	3,085.614 ppb	73,646.249 ppb	103.155 %
Concentration RSD	2.1 %	5.1 %	27.8 %	5.3 %	7.4 %	3.8 %	2.1 %	2.8 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.663 ppb	1.541 ppb	7,571.424 ppb	750.318 ppb	9.894 ppb	4.678 ppb	2.445 ppb	18.939 ppb	98.411 %
Concentration per Run 1	1.566 ppb	1.526 ppb	7,285.198 ppb	730.394 ppb	9.626 ppb	4.725 ppb	2.332 ppb	18.450 ppb	97.170 %
Concentration per Run 2	1.783 ppb	1.525 ppb	7,565.926 ppb	731.596 ppb	10.022 ppb	4.516 ppb	2.512 ppb	19.293 ppb	99.615 %
Concentration per Run 3	1.639 ppb	1.574 ppb	7,863.147 ppb	788.964 ppb	10.034 ppb	4.795 ppb	2.490 ppb	19.076 ppb	98.449 %
Concentration RSD	6.6 %	1.8 %	3.8 %	4.5 %	2.3 %	3.1 %	4.0 %	2.3 %	1.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	7.817 ppb	0.660 ppb	276.794 ppb	0.100 ppb	94.980 %	0.013 ppb	0.235 ppb	98.542 %	0.121 ppb
Concentration per Run 1	8.057 ppb	0.671 ppb	275.961 ppb	0.106 ppb	91.804 %	0.007 ppb	0.209 ppb	97.153 %	0.132 ppb
Concentration per Run 2	7.533 ppb	0.203 ppb	273.941 ppb	0.100 ppb	96.023 %	0.013 ppb	0.265 ppb	100.685 %	0.124 ppb
Concentration per Run 3	7.860 ppb	1.107 ppb	280.479 ppb	0.094 ppb	97.112 %	0.018 ppb	0.231 ppb	97.788 %	0.109 ppb
Concentration RSD	3.4 %	68.5 %	1.2 %	5.8 %	3.0 %	46.0 %	12.0 %	1.9 %	9.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	217.826 ppb	101.584 %	100.174 %	0.046 ppb	1.304 ppb	94.279 %
Concentration per Run 1	212.059 ppb	98.664 %	97.919 %	0.030 ppb	1.284 ppb	94.749 %
Concentration per Run 2	216.731 ppb	103.210 %	100.885 %	0.049 ppb	1.293 ppb	93.426 %
Concentration per Run 3	224.687 ppb	102.878 %	101.719 %	0.059 ppb	1.334 ppb	94.661 %
Concentration RSD	2.9 %	2.5 %	2.0 %	32.1 %	2.0 %	0.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	76	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-10 6020TL	Rack	2		
Analysis started at:	12/6/2023 9:22:38 PM	Vial	29		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.870 %	99.742 %	0.011 ppb	70,028.098 ppb	2,350.981 ppb	7.787 ppb	6,755.189 ppb	14,298.507 ppb	101.882 %
Concentration per Run 1	98.116 %	96.705 %	0.002 ppb	70,712.206 ppb	2,383.556 ppb	8.671 ppb	6,853.373 ppb	14,319.848 ppb	101.188 %
Concentration per Run 2	97.030 %	98.256 %	0.008 ppb	71,298.969 ppb	2,334.568 ppb	7.225 ppb	6,670.890 ppb	14,308.830 ppb	102.804 %
Concentration per Run 3	95.465 %	104.264 %	0.021 ppb	68,073.120 ppb	2,334.818 ppb	7.466 ppb	6,741.304 ppb	14,266.841 ppb	101.656 %
Concentration RSD	1.4 %	4.0 %	90.5 %	2.5 %	1.2 %	10.0 %	1.4 %	0.2 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.062 ppb	155.205 ppb	70.724 ppb	5.781 ppb	4.472 ppb	2.730 ppb	4.052 ppb	26,640.388 ppb	97.937 %
Concentration per Run 1	-0.026 ppb	158.420 ppb	69.722 ppb	5.828 ppb	4.668 ppb	2.728 ppb	4.356 ppb	27,092.171 ppb	95.225 %
Concentration per Run 2	0.069 ppb	154.652 ppb	71.478 ppb	7.556 ppb	4.281 ppb	2.634 ppb	3.798 ppb	26,413.911 ppb	98.287 %
Concentration per Run 3	0.143 ppb	152.543 ppb	70.971 ppb	3.961 ppb	4.467 ppb	2.827 ppb	4.003 ppb	26,415.081 ppb	100.300 %
Concentration RSD	137.3 %	1.9 %	1.3 %	31.1 %	4.3 %	3.5 %	7.0 %	1.5 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.213 ppb	0.584 ppb	81.821 ppb	0.086 ppb	96.047 %	0.014 ppb	0.178 ppb	98.713 %	0.057 ppb
Concentration per Run 1	0.324 ppb	0.616 ppb	84.019 ppb	0.059 ppb	91.793 %	0.013 ppb	0.194 ppb	95.830 %	0.057 ppb
Concentration per Run 2	0.156 ppb	0.380 ppb	80.499 ppb	0.098 ppb	97.787 %	0.014 ppb	0.161 ppb	97.614 %	0.040 ppb
Concentration per Run 3	0.160 ppb	0.756 ppb	80.945 ppb	0.101 ppb	98.561 %	0.014 ppb	0.179 ppb	102.695 %	0.073 ppb
Concentration RSD	44.9 %	32.5 %	2.3 %	27.5 %	3.9 %	1.3 %	9.2 %	3.6 %	29.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	34.289 ppb	100.411 %	97.952 %	0.065 ppb	0.318 ppb	92.765 %
Concentration per Run 1	35.891 ppb	96.096 %	96.301 %	0.050 ppb	0.315 ppb	93.922 %
Concentration per Run 2	33.242 ppb	103.221 %	99.344 %	0.070 ppb	0.317 ppb	91.427 %
Concentration per Run 3	33.733 ppb	101.916 %	98.213 %	0.073 ppb	0.321 ppb	92.948 %
Concentration RSD	4.1 %	3.8 %	1.6 %	19.2 %	0.9 %	1.4 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	77	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-01d10 6020TL	Rack	2		
Analysis started at:	12/6/2023 9:27:17 PM	Vial	32		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	97.109 %	101.357 %	0.028 ppb	7,701.795 ppb	651.671 ppb	16.559 ppb	395.070 ppb	3,066.718 ppb	102.857 %
Concentration per Run 1	98.681 %	98.837 %	0.029 ppb	7,001.624 ppb	656.222 ppb	16.684 ppb	399.731 ppb	3,194.342 ppb	103.167 %
Concentration per Run 2	97.467 %	102.132 %	0.022 ppb	8,070.629 ppb	629.240 ppb	16.049 ppb	386.160 ppb	2,978.914 ppb	102.669 %
Concentration per Run 3	95.178 %	103.101 %	0.033 ppb	8,033.133 ppb	669.550 ppb	16.944 ppb	399.319 ppb	3,026.899 ppb	102.734 %
Concentration RSD	1.8 %	2.2 %	18.8 %	7.9 %	3.2 %	2.8 %	2.0 %	3.7 %	0.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.015 ppb	0.502 ppb	50.496 ppb	27.924 ppb	0.513 ppb	0.435 ppb	0.795 ppb	608.349 ppb	103.266 %
Concentration per Run 1	0.009 ppb	0.531 ppb	50.663 ppb	30.498 ppb	0.498 ppb	0.456 ppb	0.806 ppb	630.615 ppb	97.806 %
Concentration per Run 2	0.031 ppb	0.505 ppb	49.687 ppb	24.545 ppb	0.532 ppb	0.408 ppb	0.728 ppb	591.552 ppb	106.747 %
Concentration per Run 3	0.004 ppb	0.472 ppb	51.136 ppb	28.729 ppb	0.510 ppb	0.441 ppb	0.852 ppb	602.880 ppb	105.245 %
Concentration RSD	96.3 %	5.9 %	1.5 %	10.9 %	3.4 %	5.7 %	7.9 %	3.3 %	4.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.029 ppb	0.411 ppb	16.773 ppb	-0.011 ppb	99.317 %	0.010 ppb	0.044 ppb	100.604 %	0.023 ppb
Concentration per Run 1	0.207 ppb	0.549 ppb	17.082 ppb	-0.010 ppb	95.794 %	0.007 ppb	0.048 ppb	97.628 %	0.012 ppb
Concentration per Run 2	-0.037 ppb	0.388 ppb	16.495 ppb	-0.013 ppb	99.824 %	0.008 ppb	0.034 ppb	100.745 %	0.027 ppb
Concentration per Run 3	-0.084 ppb	0.294 ppb	16.741 ppb	-0.009 ppb	102.332 %	0.015 ppb	0.051 ppb	103.438 %	0.028 ppb
Concentration RSD	541.0 %	31.4 %	1.8 %	17.5 %	3.3 %	41.5 %	19.8 %	2.9 %	40.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	5.010 ppb	99.955 %	97.020 %	0.007 ppb	0.032 ppb	99.319 %
Concentration per Run 1	4.533 ppb	96.356 %	94.229 %	-0.005 ppb	0.028 ppb	101.327 %
Concentration per Run 2	5.668 ppb	101.178 %	97.033 %	0.011 ppb	0.034 ppb	98.418 %
Concentration per Run 3	4.829 ppb	102.330 %	99.799 %	0.016 ppb	0.035 ppb	98.213 %
Concentration RSD	11.7 %	3.2 %	2.9 %	153.9 %	11.9 %	1.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	78	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-03d10 6020TL	Rack	2		
Analysis started at:	12/6/2023 9:31:56 PM	Vial	33		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.260 %	104.587 %	0.018 ppb	11,383.099 ppb	546.674 ppb	190.774 ppb	396.473 ppb	2,542.392 ppb	101.694 %
Concentration per Run 1	97.920 %	105.233 %	0.010 ppb	11,214.798 ppb	538.783 ppb	192.249 ppb	392.142 ppb	2,522.010 ppb	103.386 %
Concentration per Run 2	95.425 %	106.395 %	0.020 ppb	11,272.635 ppb	530.802 ppb	186.626 ppb	380.194 ppb	2,464.063 ppb	102.196 %
Concentration per Run 3	92.435 %	102.132 %	0.025 ppb	11,661.865 ppb	570.435 ppb	193.446 ppb	417.083 ppb	2,641.102 ppb	99.501 %
Concentration RSD	2.9 %	2.1 %	41.3 %	2.1 %	3.8 %	1.9 %	4.7 %	3.6 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.361 ppb	3.343 ppb	29.367 ppb	283.370 ppb	0.342 ppb	0.530 ppb	0.536 ppb	403.733 ppb	101.764 %
Concentration per Run 1	0.417 ppb	3.403 ppb	28.170 ppb	289.821 ppb	0.347 ppb	0.509 ppb	0.603 ppb	409.368 ppb	99.208 %
Concentration per Run 2	0.349 ppb	3.162 ppb	29.360 ppb	285.187 ppb	0.356 ppb	0.459 ppb	0.498 ppb	401.816 ppb	102.245 %
Concentration per Run 3	0.316 ppb	3.464 ppb	30.570 ppb	275.103 ppb	0.324 ppb	0.623 ppb	0.508 ppb	400.015 ppb	103.840 %
Concentration RSD	14.3 %	4.8 %	4.1 %	2.7 %	4.8 %	15.8 %	10.8 %	1.2 %	2.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.074 ppb	0.161 ppb	18.808 ppb	0.016 ppb	100.201 %	0.009 ppb	0.021 ppb	100.463 %	0.024 ppb
Concentration per Run 1	0.127 ppb	0.363 ppb	18.857 ppb	0.039 ppb	97.637 %	0.005 ppb	0.034 ppb	94.697 %	0.031 ppb
Concentration per Run 2	0.088 ppb	0.137 ppb	18.622 ppb	0.009 ppb	101.795 %	0.008 ppb	0.014 ppb	102.142 %	0.018 ppb
Concentration per Run 3	0.008 ppb	-0.016 ppb	18.947 ppb	0.000 ppb	101.170 %	0.013 ppb	0.016 ppb	104.551 %	0.023 ppb
Concentration RSD	82.2 %	118.1 %	0.9 %	126.7 %	2.2 %	50.6 %	51.1 %	5.1 %	26.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	9.879 ppb	101.368 %	100.082 %	0.005 ppb	0.209 ppb	95.535 %
Concentration per Run 1	10.132 ppb	96.797 %	95.049 %	-0.010 ppb	0.208 ppb	95.005 %
Concentration per Run 2	9.942 ppb	102.544 %	101.988 %	0.009 ppb	0.205 ppb	97.079 %
Concentration per Run 3	9.562 ppb	104.765 %	103.209 %	0.015 ppb	0.214 ppb	94.520 %
Concentration RSD	2.9 %	4.1 %	4.4 %	280.9 %	2.3 %	1.4 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	79	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 9:36:36 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.486 %	105.426 %	61.184 ppb	6,485.452 ppb	5,830.638 ppb	57.854 ppb	5,841.033 ppb	5,758.690 ppb	109.997 %
Concentration per Run 1	97.864 %	104.457 %	61.015 ppb	6,179.209 ppb	5,922.420 ppb	61.034 ppb	5,892.675 ppb	5,604.407 ppb	111.743 %
Concentration per Run 2	95.164 %	103.295 %	60.866 ppb	7,342.855 ppb	5,883.990 ppb	58.165 ppb	5,827.346 ppb	5,629.435 ppb	108.049 %
Concentration per Run 3	93.431 %	108.527 %	61.670 ppb	5,934.293 ppb	5,685.503 ppb	54.364 ppb	5,803.077 ppb	6,042.228 ppb	110.198 %
Recovery Percentage 1			101.973 %	108.091 %	97.177 %	96.424 %	97.351 %	95.978 %	
Concentration RSD	2.3 %	2.6 %	0.7 %	11.6 %	2.2 %	5.8 %	0.8 %	4.3 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	56.490 ppb	56.395 ppb	58.328 ppb	5,920.407 ppb	59.957 ppb	58.438 ppb	59.699 ppb	58.206 ppb	104.369 %
Concentration per Run 1	56.021 ppb	57.016 ppb	59.079 ppb	5,999.080 ppb	61.406 ppb	59.936 ppb	61.597 ppb	58.695 ppb	100.579 %
Concentration per Run 2	57.326 ppb	55.990 ppb	57.912 ppb	5,902.579 ppb	60.023 ppb	57.425 ppb	58.826 ppb	58.546 ppb	104.939 %
Concentration per Run 3	56.123 ppb	56.181 ppb	57.994 ppb	5,859.563 ppb	58.443 ppb	57.953 ppb	58.674 ppb	57.376 ppb	107.590 %
Recovery Percentage 1	94.150 %	93.992 %	97.214 %	98.673 %	99.929 %	97.397 %	99.498 %	97.009 %	
Concentration RSD	1.3 %	1.0 %	1.1 %	1.2 %	2.5 %	2.3 %	2.8 %	1.2 %	3.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.366 ppb	55.871 ppb	55.489 ppb	57.389 ppb	101.124 %	59.697 ppb	60.125 ppb	102.191 %	59.378 ppb
Concentration per Run 1	60.129 ppb	56.892 ppb	56.122 ppb	57.526 ppb	98.027 %	60.756 ppb	61.180 ppb	98.289 %	60.550 ppb
Concentration per Run 2	59.810 ppb	53.671 ppb	55.143 ppb	56.174 ppb	100.230 %	58.912 ppb	58.967 ppb	102.685 %	58.756 ppb
Concentration per Run 3	58.159 ppb	57.049 ppb	55.203 ppb	58.468 ppb	105.115 %	59.422 ppb	60.229 ppb	105.597 %	58.830 ppb
Recovery Percentage 1	98.943 %	93.118 %	92.482 %	95.649 %		99.495 %	100.209 %		98.964 %
Concentration RSD	1.8 %	3.4 %	1.0 %	2.0 %	3.6 %	1.6 %	1.8 %	3.6 %	1.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	56.627 ppb	102.886 %	102.412 %	57.550 ppb	58.345 ppb	98.662 %
Concentration per Run 1	57.065 ppb	99.480 %	100.703 %	54.324 ppb	56.021 ppb	101.329 %
Concentration per Run 2	56.726 ppb	103.257 %	102.258 %	58.056 ppb	59.032 ppb	97.211 %
Concentration per Run 3	56.089 ppb	105.922 %	104.276 %	60.270 ppb	59.983 ppb	97.444 %
Recovery Percentage 1	94.378 %			95.917 %	97.242 %	
Concentration RSD	0.9 %	3.1 %	1.7 %	5.2 %	3.5 %	2.3 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	80	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 9:41:18 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.129 %	105.814 %	0.013 ppb	10.050 ppb	0.728 ppb	0.365 ppb	-1.018 ppb	2.579 ppb	100.770 %
Concentration per Run 1	97.682 %	105.233 %	0.015 ppb	12.590 ppb	0.758 ppb	0.380 ppb	-0.959 ppb	5.843 ppb	100.721 %
Concentration per Run 2	96.931 %	107.171 %	0.010 ppb	9.492 ppb	0.714 ppb	0.337 ppb	1.491 ppb	5.886 ppb	101.637 %
Concentration per Run 3	93.773 %	105.039 %	0.013 ppb	8.070 ppb	0.712 ppb	0.377 ppb	-3.585 ppb	-3.991 ppb	99.953 %
Recovery Percentage 1			2.560 %	10.050 %	1.040 %	3.649 %	-1.018 %	2.579 %	
Concentration RSD	2.2 %	1.1 %	17.2 %	23.0 %	3.6 %	6.6 %	249.4 %	220.6 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.046 ppb	-0.018 ppb	0.133 ppb	8.285 ppb	0.003 ppb	0.069 ppb	0.050 ppb	-0.047 ppb	101.132 %
Concentration per Run 1	-0.043 ppb	-0.032 ppb	0.130 ppb	6.391 ppb	0.011 ppb	0.076 ppb	0.024 ppb	-0.012 ppb	96.409 %
Concentration per Run 2	-0.037 ppb	0.000 ppb	0.134 ppb	9.540 ppb	-0.002 ppb	0.066 ppb	0.089 ppb	-0.032 ppb	100.324 %
Concentration per Run 3	-0.059 ppb	-0.024 ppb	0.136 ppb	8.925 ppb	-0.001 ppb	0.065 ppb	0.036 ppb	-0.096 ppb	106.664 %
Recovery Percentage 1	-0.927 %	-1.843 %	13.306 %	16.571 %	0.564 %	3.461 %	4.984 %	-0.931 %	
Concentration RSD	24.6 %	90.7 %	2.4 %	20.1 %	265.0 %	9.0 %	69.5 %	93.8 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.236 ppb	0.333 ppb	0.005 ppb	0.641 ppb	102.150 %	0.011 ppb	0.004 ppb	102.137 %	0.028 ppb
Concentration per Run 1	0.340 ppb	0.441 ppb	-0.003 ppb	0.576 ppb	98.820 %	0.010 ppb	0.001 ppb	98.130 %	0.022 ppb
Concentration per Run 2	0.216 ppb	0.269 ppb	0.013 ppb	0.682 ppb	103.776 %	0.012 ppb	0.008 ppb	103.527 %	0.028 ppb
Concentration per Run 3	0.151 ppb	0.289 ppb	0.005 ppb	0.665 ppb	103.854 %	0.011 ppb	0.002 ppb	104.754 %	0.032 ppb
Recovery Percentage 1	47.117 %	6.660 %	0.049 %	32.035 %		2.761 %	1.904 %		0.688 %
Concentration RSD	40.9 %	28.2 %	172.0 %	8.9 %	2.8 %	7.9 %	103.9 %	3.5 %	18.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.005 ppb	100.441 %	99.683 %	0.475 ppb	0.013 ppb	98.047 %
Concentration per Run 1	0.015 ppb	98.038 %	96.546 %	0.333 ppb	0.015 ppb	99.384 %
Concentration per Run 2	0.000 ppb	102.028 %	100.616 %	0.571 ppb	0.012 ppb	97.569 %
Concentration per Run 3	0.000 ppb	101.257 %	101.886 %	0.520 ppb	0.013 ppb	97.189 %
Recovery Percentage 1	0.914 %			47.476 %	1.333 %	
Concentration RSD	188.1 %	2.1 %	2.8 %	26.4 %	13.3 %	1.2 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	81	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1860495-1 2008TL	Rack	2		
Analysis started at:	12/6/2023 9:57:57 PM	Vial	36		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	106.213 %	99.548 %	-0.005 ppb	11.331 ppb	1.250 ppb	1.916 ppb	-5.834 ppb	6.289 ppb	106.582 %
Concentration per Run 1	109.981 %	100.775 %	-0.009 ppb	9.021 ppb	1.768 ppb	2.093 ppb	-0.127 ppb	0.555 ppb	107.295 %
Concentration per Run 2	105.036 %	98.062 %	-0.003 ppb	15.379 ppb	0.262 ppb	1.585 ppb	-9.080 ppb	5.289 ppb	105.565 %
Concentration per Run 3	103.623 %	99.806 %	-0.003 ppb	9.594 ppb	1.720 ppb	2.070 ppb	-8.296 ppb	13.022 ppb	106.886 %
Concentration RSD	3.1 %	1.4 %	69.9 %	31.0 %	68.5 %	15.0 %	85.0 %	100.1 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.033 ppb	0.016 ppb	1.087 ppb	0.214 ppb	0.002 ppb	0.006 ppb	0.078 ppb	-0.467 ppb	104.065 %
Concentration per Run 1	-0.043 ppb	-0.005 ppb	1.051 ppb	1.191 ppb	0.007 ppb	0.004 ppb	0.088 ppb	-0.467 ppb	98.967 %
Concentration per Run 2	-0.044 ppb	0.026 ppb	1.058 ppb	-0.327 ppb	-0.002 ppb	0.005 ppb	0.089 ppb	-0.464 ppb	105.209 %
Concentration per Run 3	-0.010 ppb	0.027 ppb	1.151 ppb	-0.221 ppb	0.002 ppb	0.008 ppb	0.056 ppb	-0.470 ppb	108.019 %
Concentration RSD	59.0 %	111.9 %	5.1 %	395.1 %	207.3 %	38.6 %	24.3 %	0.7 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.113 ppb	0.008 ppb	-0.003 ppb	0.021 ppb	103.505 %	0.000 ppb	-0.001 ppb	103.707 %	0.001 ppb
Concentration per Run 1	0.244 ppb	-0.009 ppb	-0.010 ppb	0.038 ppb	99.284 %	-0.001 ppb	0.001 ppb	100.458 %	0.003 ppb
Concentration per Run 2	0.082 ppb	-0.011 ppb	-0.003 ppb	0.019 ppb	106.632 %	0.001 ppb	-0.001 ppb	104.366 %	-0.006 ppb
Concentration per Run 3	0.012 ppb	0.045 ppb	0.003 ppb	0.007 ppb	104.600 %	0.000 ppb	-0.001 ppb	106.296 %	0.006 ppb
Concentration RSD	105.3 %	377.4 %	203.4 %	74.1 %	3.7 %	419.3 %	172.1 %	2.9 %	488.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.009 ppb	101.512 %	102.102 %	0.063 ppb	0.004 ppb	98.504 %
Concentration per Run 1	0.000 ppb	97.924 %	100.017 %	0.062 ppb	0.004 ppb	97.605 %
Concentration per Run 2	-0.014 ppb	103.854 %	103.372 %	0.068 ppb	0.003 ppb	97.868 %
Concentration per Run 3	-0.014 ppb	102.757 %	102.917 %	0.059 ppb	0.005 ppb	100.039 %
Concentration RSD	87.7 %	3.1 %	1.8 %	7.4 %	18.3 %	1.4 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	82	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1860495-2d10 2008TL	Rack	2		
Analysis started at:	12/6/2023 10:02:37 PM	Vial	37		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.884 %	98.579 %	5.101 ppb	1,112.513 ppb	1,032.340 ppb	208.883 ppb	1,080.134 ppb	1,078.017 ppb	102.859 %
Concentration per Run 1	100.648 %	94.767 %	5.043 ppb	1,168.287 ppb	1,066.417 ppb	209.677 ppb	1,130.408 ppb	1,113.936 ppb	102.593 %
Concentration per Run 2	99.284 %	99.031 %	5.138 ppb	1,095.180 ppb	1,021.205 ppb	208.339 ppb	1,077.641 ppb	1,165.517 ppb	102.530 %
Concentration per Run 3	96.722 %	101.938 %	5.124 ppb	1,074.072 ppb	1,009.400 ppb	208.632 ppb	1,032.354 ppb	954.598 ppb	103.453 %
Concentration RSD	2.0 %	3.7 %	1.0 %	4.4 %	2.9 %	0.3 %	4.5 %	10.2 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	47.194 ppb	19.346 ppb	49.957 ppb	105.811 ppb	51.190 ppb	50.994 ppb	25.534 ppb	49.762 ppb	102.269 %
Concentration per Run 1	49.505 ppb	19.493 ppb	48.742 ppb	111.598 ppb	52.954 ppb	52.647 ppb	25.900 ppb	50.566 ppb	97.332 %
Concentration per Run 2	46.304 ppb	19.316 ppb	50.411 ppb	102.135 ppb	50.577 ppb	50.739 ppb	26.280 ppb	49.668 ppb	102.306 %
Concentration per Run 3	45.774 ppb	19.230 ppb	50.718 ppb	103.701 ppb	50.039 ppb	49.595 ppb	24.423 ppb	49.051 ppb	107.168 %
Concentration RSD	4.3 %	0.7 %	2.1 %	4.8 %	3.0 %	3.0 %	3.8 %	1.5 %	4.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.202 ppb	11.906 ppb	92.618 ppb	96.451 ppb	102.315 %	5.046 ppb	5.208 ppb	102.726 %	35.657 ppb
Concentration per Run 1	12.866 ppb	12.382 ppb	95.285 ppb	96.480 ppb	98.477 %	5.221 ppb	5.508 ppb	97.854 %	36.401 ppb
Concentration per Run 2	11.963 ppb	11.787 ppb	91.606 ppb	97.570 ppb	103.179 %	5.005 ppb	5.127 ppb	102.997 %	34.929 ppb
Concentration per Run 3	11.778 ppb	11.549 ppb	90.964 ppb	95.301 ppb	105.290 %	4.913 ppb	4.990 ppb	107.327 %	35.641 ppb
Concentration RSD	4.8 %	3.6 %	2.5 %	1.2 %	3.4 %	3.1 %	5.2 %	4.6 %	2.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	187.107 ppb	100.677 %	98.948 %	11.549 ppb	51.082 ppb	101.818 %
Concentration per Run 1	191.063 ppb	95.123 %	95.951 %	11.320 ppb	50.191 ppb	103.397 %
Concentration per Run 2	186.536 ppb	103.013 %	99.894 %	11.416 ppb	50.693 ppb	101.070 %
Concentration per Run 3	183.721 ppb	103.896 %	100.998 %	11.911 ppb	52.363 ppb	100.987 %
Concentration RSD	2.0 %	4.8 %	2.7 %	2.7 %	2.2 %	1.3 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	83	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1860495-3d10 2008TL	Rack	2		
Analysis started at:	12/6/2023 10:07:17 PM	Vial	39		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	98.593 %	102.972 %	5.169 ppb	1,191.854 ppb	1,050.603 ppb	237.069 ppb	1,187.415 ppb	1,469.136 ppb	104.045 %
Concentration per Run 1	100.617 %	90.116 %	5.161 ppb	1,320.945 ppb	1,163.715 ppb	263.120 ppb	1,289.469 ppb	1,621.303 ppb	104.954 %
Concentration per Run 2	98.343 %	109.109 %	5.110 ppb	1,109.832 ppb	996.420 ppb	222.101 ppb	1,074.502 ppb	1,405.380 ppb	104.665 %
Concentration per Run 3	96.819 %	109.690 %	5.237 ppb	1,144.786 ppb	991.674 ppb	225.985 ppb	1,198.272 ppb	1,380.724 ppb	102.517 %
Concentration RSD	1.9 %	10.8 %	1.2 %	9.5 %	9.3 %	9.6 %	9.1 %	9.0 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	46.307 ppb	19.271 ppb	50.803 ppb	151.638 ppb	50.823 ppb	49.848 ppb	26.885 ppb	55.589 ppb	102.291 %
Concentration per Run 1	52.108 ppb	21.671 ppb	55.132 ppb	154.638 ppb	55.649 ppb	54.225 ppb	28.693 ppb	60.521 ppb	92.650 %
Concentration per Run 2	42.236 ppb	17.417 ppb	46.361 ppb	145.387 ppb	47.741 ppb	46.741 ppb	25.248 ppb	52.065 ppb	107.987 %
Concentration per Run 3	44.577 ppb	18.726 ppb	50.915 ppb	154.889 ppb	49.078 ppb	48.578 ppb	26.715 ppb	54.181 ppb	106.237 %
Concentration RSD	11.1 %	11.3 %	8.6 %	3.6 %	8.3 %	7.8 %	6.4 %	7.9 %	8.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	12.082 ppb	10.831 ppb	94.787 ppb	97.449 ppb	100.685 %	5.073 ppb	5.190 ppb	102.475 %	39.597 ppb
Concentration per Run 1	13.159 ppb	11.402 ppb	100.871 ppb	99.471 ppb	95.473 %	5.415 ppb	5.416 ppb	97.228 %	41.212 ppb
Concentration per Run 2	11.079 ppb	10.433 ppb	91.105 ppb	94.565 ppb	101.933 %	4.920 ppb	5.128 ppb	103.519 %	37.628 ppb
Concentration per Run 3	12.009 ppb	10.659 ppb	92.386 ppb	98.310 ppb	104.647 %	4.884 ppb	5.026 ppb	106.677 %	39.951 ppb
Concentration RSD	8.6 %	4.7 %	5.6 %	2.6 %	4.7 %	5.9 %	3.9 %	4.7 %	4.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	188.858 ppb	101.329 %	100.874 %	12.136 ppb	54.655 ppb	97.276 %
Concentration per Run 1	198.190 ppb	96.683 %	96.701 %	11.997 ppb	54.459 ppb	97.567 %
Concentration per Run 2	179.994 ppb	105.109 %	102.156 %	12.262 ppb	55.217 ppb	95.727 %
Concentration per Run 3	188.391 ppb	102.195 %	103.764 %	12.148 ppb	54.288 ppb	98.533 %
Concentration RSD	4.8 %	4.2 %	3.7 %	1.1 %	0.9 %	1.5 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	84	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	wg1860495-4 2008TL	Rack	2		
Analysis started at:	12/6/2023 10:11:57 PM	Vial	40		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.690 %	102.067 %	0.022 ppb	1,012.688 ppb	348.616 ppb	296.942 ppb	1,270.769 ppb	4,619.207 ppb	101.280 %
Concentration per Run 1	99.636 %	98.450 %	0.026 ppb	1,060.271 ppb	363.837 ppb	295.276 ppb	1,318.570 ppb	4,801.786 ppb	101.140 %
Concentration per Run 2	95.139 %	107.171 %	0.024 ppb	966.214 ppb	334.374 ppb	290.294 ppb	1,185.299 ppb	4,370.126 ppb	99.796 %
Concentration per Run 3	95.295 %	100.581 %	0.014 ppb	1,011.580 ppb	347.637 ppb	305.255 ppb	1,308.438 ppb	4,685.708 ppb	102.904 %
Concentration RSD	2.6 %	4.5 %	30.2 %	4.6 %	4.2 %	2.6 %	5.8 %	4.8 %	1.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.156 ppb	1.339 ppb	13.650 ppb	456.570 ppb	0.207 ppb	0.827 ppb	7.170 ppb	56.247 ppb	106.144 %
Concentration per Run 1	1.254 ppb	1.364 ppb	11.883 ppb	457.275 ppb	0.203 ppb	0.822 ppb	7.181 ppb	56.771 ppb	103.339 %
Concentration per Run 2	1.235 ppb	1.278 ppb	12.975 ppb	432.462 ppb	0.197 ppb	0.873 ppb	7.022 ppb	56.470 ppb	106.146 %
Concentration per Run 3	0.978 ppb	1.374 ppb	16.092 ppb	479.974 ppb	0.220 ppb	0.786 ppb	7.306 ppb	55.499 ppb	108.947 %
Concentration RSD	13.3 %	4.0 %	16.0 %	5.2 %	5.7 %	5.3 %	2.0 %	1.2 %	2.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.438 ppb	0.244 ppb	14.321 ppb	1.786 ppb	103.593 %	0.047 ppb	0.058 ppb	104.571 %	2.746 ppb
Concentration per Run 1	0.521 ppb	0.414 ppb	14.460 ppb	1.744 ppb	101.060 %	0.044 ppb	0.061 ppb	101.192 %	2.779 ppb
Concentration per Run 2	0.431 ppb	0.251 ppb	14.233 ppb	1.825 ppb	105.082 %	0.046 ppb	0.061 ppb	104.835 %	2.782 ppb
Concentration per Run 3	0.360 ppb	0.066 ppb	14.271 ppb	1.788 ppb	104.637 %	0.049 ppb	0.053 ppb	107.687 %	2.677 ppb
Concentration RSD	18.5 %	71.4 %	0.9 %	2.3 %	2.1 %	5.4 %	8.6 %	3.1 %	2.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	11.772 ppb	103.682 %	103.303 %	0.047 ppb	12.387 ppb	97.547 %
Concentration per Run 1	12.397 ppb	99.888 %	100.487 %	0.034 ppb	12.346 ppb	97.422 %
Concentration per Run 2	11.171 ppb	103.818 %	104.063 %	0.052 ppb	12.312 ppb	96.552 %
Concentration per Run 3	11.748 ppb	107.341 %	105.360 %	0.054 ppb	12.504 ppb	98.667 %
Concentration RSD	5.2 %	3.6 %	2.4 %	23.4 %	0.8 %	1.1 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	85	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371141-01 2008TL	Rack	2		
Analysis started at:	12/6/2023 10:16:37 PM	Vial	38		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.388 %	99.548 %	0.014 ppb	1,065.740 ppb	367.386 ppb	295.644 ppb	1,321.654 ppb	4,730.743 ppb	107.027 %
Concentration per Run 1	104.286 %	97.093 %	0.012 ppb	1,070.884 ppb	379.804 ppb	287.936 ppb	1,364.313 ppb	4,768.220 ppb	108.197 %
Concentration per Run 2	100.883 %	97.674 %	0.010 ppb	1,085.993 ppb	356.585 ppb	303.669 ppb	1,331.553 ppb	4,762.678 ppb	106.155 %
Concentration per Run 3	98.996 %	103.876 %	0.021 ppb	1,040.344 ppb	365.769 ppb	295.326 ppb	1,269.097 ppb	4,661.331 ppb	106.729 %
Concentration RSD	2.6 %	3.8 %	42.2 %	2.2 %	3.2 %	2.7 %	3.7 %	1.3 %	1.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.159 ppb	1.563 ppb	13.477 ppb	478.287 ppb	0.233 ppb	0.885 ppb	7.440 ppb	57.544 ppb	106.852 %
Concentration per Run 1	1.087 ppb	1.774 ppb	13.327 ppb	476.946 ppb	0.226 ppb	0.962 ppb	7.532 ppb	57.071 ppb	105.267 %
Concentration per Run 2	1.269 ppb	1.527 ppb	13.962 ppb	499.967 ppb	0.237 ppb	0.848 ppb	7.400 ppb	58.376 ppb	106.141 %
Concentration per Run 3	1.122 ppb	1.389 ppb	13.143 ppb	457.948 ppb	0.235 ppb	0.845 ppb	7.386 ppb	57.186 ppb	109.150 %
Concentration RSD	8.3 %	12.5 %	3.2 %	4.4 %	2.5 %	7.6 %	1.1 %	1.3 %	1.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.526 ppb	0.088 ppb	14.701 ppb	0.736 ppb	103.854 %	0.039 ppb	0.083 ppb	104.847 %	1.345 ppb
Concentration per Run 1	0.612 ppb	0.042 ppb	14.596 ppb	0.673 ppb	101.047 %	0.047 ppb	0.070 ppb	100.027 %	1.359 ppb
Concentration per Run 2	0.512 ppb	0.093 ppb	14.848 ppb	0.770 ppb	103.634 %	0.036 ppb	0.084 ppb	105.242 %	1.315 ppb
Concentration per Run 3	0.454 ppb	0.128 ppb	14.659 ppb	0.766 ppb	106.882 %	0.035 ppb	0.094 ppb	109.272 %	1.362 ppb
Concentration RSD	15.1 %	49.4 %	0.9 %	7.4 %	2.8 %	16.7 %	14.6 %	4.4 %	2.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	12.117 ppb	103.997 %	101.730 %	0.020 ppb	12.146 ppb	101.069 %
Concentration per Run 1	12.705 ppb	101.246 %	99.192 %	0.002 ppb	11.868 ppb	101.379 %
Concentration per Run 2	11.961 ppb	104.340 %	100.539 %	0.034 ppb	12.232 ppb	101.458 %
Concentration per Run 3	11.687 ppb	106.406 %	105.460 %	0.025 ppb	12.338 ppb	100.369 %
Concentration RSD	4.3 %	2.5 %	3.2 %	81.2 %	2.0 %	0.6 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	86	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-07d50 6020TL	Rack	2		
Analysis started at:	12/6/2023 10:21:16 PM	Vial	34		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.883 %	101.421 %	-0.002 ppb	1,204.838 ppb	51.198 ppb	1.286 ppb	132.553 ppb	289.544 ppb	101.314 %
Concentration per Run 1	98.644 %	97.481 %	0.002 ppb	1,267.308 ppb	57.716 ppb	1.345 ppb	141.567 ppb	289.997 ppb	102.164 %
Concentration per Run 2	96.890 %	102.713 %	-0.006 ppb	1,163.953 ppb	49.082 ppb	1.163 ppb	127.384 ppb	299.952 ppb	101.456 %
Concentration per Run 3	95.117 %	104.070 %	-0.001 ppb	1,183.254 ppb	46.796 ppb	1.351 ppb	128.709 ppb	278.684 ppb	100.323 %
Concentration RSD	1.8 %	3.4 %	279.6 %	4.6 %	11.2 %	8.3 %	5.9 %	3.7 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.015 ppb	3.102 ppb	1.501 ppb	1.443 ppb	0.082 ppb	0.292 ppb	0.089 ppb	459.620 ppb	105.323 %
Concentration per Run 1	-0.028 ppb	3.112 ppb	1.270 ppb	1.542 ppb	0.094 ppb	0.356 ppb	0.118 ppb	492.694 ppb	98.959 %
Concentration per Run 2	0.002 ppb	3.083 ppb	1.684 ppb	1.221 ppb	0.063 ppb	0.253 ppb	0.051 ppb	438.132 ppb	109.653 %
Concentration per Run 3	-0.018 ppb	3.112 ppb	1.549 ppb	1.564 ppb	0.089 ppb	0.267 ppb	0.099 ppb	448.035 ppb	107.357 %
Concentration RSD	103.6 %	0.6 %	14.1 %	13.3 %	19.9 %	19.1 %	38.5 %	6.3 %	5.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.090 ppb	-0.005 ppb	1.541 ppb	0.175 ppb	102.610 %	0.001 ppb	0.003 ppb	103.302 %	0.459 ppb
Concentration per Run 1	0.331 ppb	0.005 ppb	1.597 ppb	0.176 ppb	97.588 %	0.001 ppb	0.003 ppb	98.763 %	0.432 ppb
Concentration per Run 2	-0.045 ppb	0.043 ppb	1.525 ppb	0.162 ppb	104.623 %	0.001 ppb	0.004 ppb	104.812 %	0.494 ppb
Concentration per Run 3	-0.015 ppb	-0.064 ppb	1.501 ppb	0.187 ppb	105.620 %	0.001 ppb	0.002 ppb	106.332 %	0.451 ppb
Concentration RSD	232.1 %	1,022.4 %	3.3 %	7.2 %	4.3 %	45.3 %	33.1 %	3.9 %	6.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.715 ppb	102.104 %	99.620 %	0.007 ppb	0.016 ppb	100.215 %
Concentration per Run 1	0.706 ppb	99.075 %	96.182 %	-0.007 ppb	0.016 ppb	102.275 %
Concentration per Run 2	0.743 ppb	101.574 %	100.509 %	0.013 ppb	0.016 ppb	99.076 %
Concentration per Run 3	0.697 ppb	105.665 %	102.171 %	0.013 ppb	0.017 ppb	99.293 %
Concentration RSD	3.4 %	3.3 %	3.1 %	177.9 %	3.4 %	1.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	87	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371017-10d50 6020TL	Rack	2		
Analysis started at:	12/6/2023 10:25:56 PM	Vial	35		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.033 %	100.452 %	-0.001 ppb	1,245.967 ppb	48.335 ppb	1.279 ppb	126.111 ppb	289.818 ppb	100.374 %
Concentration per Run 1	97.243 %	105.620 %	0.007 ppb	1,190.834 ppb	50.923 ppb	1.444 ppb	132.067 ppb	278.137 ppb	101.528 %
Concentration per Run 2	97.545 %	101.163 %	-0.001 ppb	1,221.519 ppb	44.820 ppb	0.743 ppb	120.540 ppb	276.022 ppb	101.347 %
Concentration per Run 3	93.311 %	94.574 %	-0.008 ppb	1,325.548 ppb	49.263 ppb	1.650 ppb	125.727 ppb	315.295 ppb	98.248 %
Concentration RSD	2.5 %	5.5 %	1,102.4 %	5.7 %	6.5 %	37.2 %	4.6 %	7.6 %	1.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.001 ppb	3.296 ppb	1.581 ppb	0.899 ppb	0.086 ppb	0.306 ppb	0.089 ppb	480.124 ppb	102.562 %
Concentration per Run 1	0.021 ppb	3.207 ppb	1.546 ppb	1.318 ppb	0.086 ppb	0.360 ppb	0.099 ppb	479.572 ppb	98.609 %
Concentration per Run 2	-0.023 ppb	3.396 ppb	1.514 ppb	0.466 ppb	0.094 ppb	0.320 ppb	0.056 ppb	475.917 ppb	103.023 %
Concentration per Run 3	-0.001 ppb	3.287 ppb	1.682 ppb	0.913 ppb	0.079 ppb	0.238 ppb	0.113 ppb	484.882 ppb	106.055 %
Concentration RSD	2,778.0 %	2.9 %	5.7 %	47.4 %	8.6 %	20.3 %	33.1 %	0.9 %	3.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.093 ppb	-0.050 ppb	1.607 ppb	0.131 ppb	101.687 %	0.001 ppb	0.001 ppb	102.078 %	0.284 ppb
Concentration per Run 1	0.035 ppb	-0.064 ppb	1.616 ppb	0.082 ppb	100.144 %	0.002 ppb	-0.001 ppb	98.947 %	0.302 ppb
Concentration per Run 2	0.192 ppb	-0.069 ppb	1.616 ppb	0.139 ppb	102.185 %	0.002 ppb	-0.001 ppb	99.953 %	0.283 ppb
Concentration per Run 3	0.052 ppb	-0.017 ppb	1.589 ppb	0.172 ppb	102.731 %	0.000 ppb	0.004 ppb	107.334 %	0.266 ppb
Concentration RSD	92.9 %	56.6 %	1.0 %	34.6 %	1.3 %	125.6 %	591.3 %	4.5 %	6.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.666 ppb	100.939 %	99.475 %	0.001 ppb	0.010 ppb	98.013 %
Concentration per Run 1	0.622 ppb	98.678 %	95.854 %	-0.013 ppb	0.009 ppb	101.661 %
Concentration per Run 2	0.832 ppb	101.387 %	100.054 %	0.007 ppb	0.012 ppb	96.118 %
Concentration per Run 3	0.544 ppb	102.751 %	102.517 %	0.008 ppb	0.010 ppb	96.261 %
Concentration RSD	22.4 %	2.1 %	3.4 %	1,952.3 %	18.9 %	3.2 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	88	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371141-02 2008TL	Rack	2		
Analysis started at:	12/6/2023 10:30:36 PM	Vial	41		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	101.659 %	99.612 %	0.070 ppb	49,953.476 ppb	6,446.245 ppb	1,156.059 ppb	21,699.300 ppb	84,517.727 ppb	111.446 %
Concentration per Run 1	103.427 %	98.256 %	0.061 ppb	50,306.693 ppb	6,436.209 ppb	1,142.985 ppb	21,318.018 ppb	84,624.633 ppb	113.558 %
Concentration per Run 2	102.271 %	97.868 %	0.077 ppb	49,893.239 ppb	6,511.310 ppb	1,175.848 ppb	22,089.819 ppb	84,638.818 ppb	109.899 %
Concentration per Run 3	99.279 %	102.713 %	0.071 ppb	49,660.496 ppb	6,391.216 ppb	1,149.345 ppb	21,690.063 ppb	84,289.731 ppb	110.880 %
Concentration RSD	2.1 %	2.7 %	11.4 %	0.7 %	0.9 %	1.5 %	1.8 %	0.2 %	1.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	4.468 ppb	8.777 ppb	299.162 ppb	5,110.286 ppb	3.772 ppb	19.338 ppb	55.976 ppb	311.914 ppb	107.046 %
Concentration per Run 1	4.461 ppb	8.455 ppb	290.241 ppb	4,936.205 ppb	3.755 ppb	19.101 ppb	55.372 ppb	309.025 ppb	106.755 %
Concentration per Run 2	4.479 ppb	8.886 ppb	304.816 ppb	5,097.315 ppb	3.779 ppb	18.605 ppb	56.305 ppb	314.381 ppb	106.837 %
Concentration per Run 3	4.464 ppb	8.989 ppb	302.430 ppb	5,297.338 ppb	3.782 ppb	20.308 ppb	56.252 ppb	312.337 ppb	107.545 %
Concentration RSD	0.2 %	3.2 %	2.6 %	3.5 %	0.4 %	4.5 %	0.9 %	0.9 %	0.4 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.750 ppb	0.960 ppb	215.310 ppb	3.806 ppb	100.639 %	0.289 ppb	0.842 ppb	105.914 %	2.803 ppb
Concentration per Run 1	3.973 ppb	1.065 ppb	215.455 ppb	4.023 ppb	96.642 %	0.293 ppb	0.838 ppb	104.731 %	2.647 ppb
Concentration per Run 2	3.531 ppb	0.764 ppb	214.242 ppb	3.495 ppb	103.482 %	0.286 ppb	0.866 ppb	102.086 %	3.029 ppb
Concentration per Run 3	3.744 ppb	1.050 ppb	216.234 ppb	3.902 ppb	101.792 %	0.286 ppb	0.822 ppb	110.925 %	2.733 ppb
Concentration RSD	5.9 %	17.7 %	0.5 %	7.3 %	3.5 %	1.3 %	2.7 %	4.3 %	7.1 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	78.923 ppb	106.560 %	105.886 %	0.023 ppb	68.485 ppb	101.058 %
Concentration per Run 1	78.663 ppb	103.615 %	101.232 %	0.010 ppb	67.699 ppb	100.951 %
Concentration per Run 2	81.189 ppb	109.593 %	108.952 %	0.030 ppb	67.743 ppb	102.728 %
Concentration per Run 3	76.917 ppb	106.472 %	107.475 %	0.029 ppb	70.014 ppb	99.494 %
Concentration RSD	2.7 %	2.8 %	3.9 %	50.0 %	1.9 %	1.6 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	89	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371141-03 2008TL	Rack	2		
Analysis started at:	12/6/2023 10:35:16 PM	Vial	42		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	99.969 %	103.553 %	0.027 ppb	31,007.365 ppb	2,480.631 ppb	510.089 ppb	8,570.508 ppb	33,663.248 ppb	110.076 %
Concentration per Run 1	102.230 %	100.969 %	0.022 ppb	31,496.318 ppb	2,515.334 ppb	523.679 ppb	8,891.355 ppb	34,415.739 ppb	111.724 %
Concentration per Run 2	99.988 %	108.915 %	0.015 ppb	30,009.311 ppb	2,401.646 ppb	490.297 ppb	8,122.325 ppb	32,323.016 ppb	110.772 %
Concentration per Run 3	97.690 %	100.775 %	0.044 ppb	31,516.465 ppb	2,524.914 ppb	516.290 ppb	8,697.843 ppb	34,250.988 ppb	107.732 %
Concentration RSD	2.3 %	4.5 %	56.5 %	2.8 %	2.8 %	3.4 %	4.7 %	3.5 %	1.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.842 ppb	2.368 ppb	51.139 ppb	1,076.916 ppb	0.867 ppb	5.016 ppb	23.710 ppb	122.496 ppb	106.592 %
Concentration per Run 1	1.787 ppb	2.409 ppb	51.407 ppb	1,114.038 ppb	0.836 ppb	5.262 ppb	24.952 ppb	126.684 ppb	100.625 %
Concentration per Run 2	1.771 ppb	2.100 ppb	50.965 ppb	1,065.732 ppb	0.854 ppb	4.929 ppb	22.764 ppb	120.856 ppb	108.026 %
Concentration per Run 3	1.966 ppb	2.595 ppb	51.044 ppb	1,050.977 ppb	0.913 ppb	4.856 ppb	23.414 ppb	119.947 ppb	111.125 %
Concentration RSD	5.9 %	10.6 %	0.5 %	3.1 %	4.6 %	4.3 %	4.7 %	3.0 %	5.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.290 ppb	0.361 ppb	95.804 ppb	3.081 ppb	103.524 %	0.088 ppb	0.225 ppb	106.201 %	1.497 ppb
Concentration per Run 1	1.490 ppb	0.430 ppb	97.983 ppb	3.161 ppb	100.266 %	0.091 ppb	0.252 ppb	101.701 %	1.565 ppb
Concentration per Run 2	1.230 ppb	0.278 ppb	95.263 ppb	3.035 ppb	104.120 %	0.092 ppb	0.225 ppb	107.048 %	1.499 ppb
Concentration per Run 3	1.149 ppb	0.374 ppb	94.167 ppb	3.046 ppb	106.185 %	0.080 ppb	0.198 ppb	109.853 %	1.427 ppb
Concentration RSD	13.8 %	21.3 %	2.1 %	2.3 %	2.9 %	7.5 %	12.0 %	3.9 %	4.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	45.645 ppb	105.879 %	104.067 %	0.015 ppb	24.785 ppb	101.884 %
Concentration per Run 1	45.835 ppb	101.120 %	102.343 %	-0.002 ppb	24.451 ppb	102.661 %
Concentration per Run 2	43.981 ppb	108.448 %	103.386 %	0.022 ppb	24.592 ppb	102.550 %
Concentration per Run 3	47.119 ppb	108.068 %	106.472 %	0.025 ppb	25.312 ppb	100.440 %
Concentration RSD	3.5 %	3.9 %	2.1 %	96.5 %	1.9 %	1.2 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	90	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371304-01 2008TL	Rack	2		
Analysis started at:	12/6/2023 10:39:56 PM	Vial	43		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.551 %	100.646 %	0.011 ppb	63,769.396 ppb	4,879.041 ppb	85.633 ppb	1,700.792 ppb	28,106.700 ppb	109.242 %
Concentration per Run 1	95.000 %	98.062 %	0.014 ppb	66,977.157 ppb	4,955.590 ppb	91.976 ppb	1,730.964 ppb	29,041.783 ppb	107.943 %
Concentration per Run 2	95.207 %	99.806 %	0.008 ppb	62,451.091 ppb	4,911.635 ppb	81.452 ppb	1,664.766 ppb	27,596.409 ppb	108.605 %
Concentration per Run 3	93.447 %	104.070 %	0.011 ppb	61,879.939 ppb	4,769.898 ppb	83.469 ppb	1,706.648 ppb	27,681.907 ppb	111.178 %
Concentration RSD	1.0 %	3.1 %	29.4 %	4.4 %	2.0 %	6.5 %	2.0 %	2.9 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.325 ppb	0.318 ppb	1,054.525 ppb	10,431.122 ppb	0.672 ppb	1.512 ppb	2.384 ppb	28.596 ppb	107.610 %
Concentration per Run 1	0.302 ppb	0.380 ppb	1,068.883 ppb	10,762.986 ppb	0.647 ppb	1.575 ppb	2.542 ppb	30.288 ppb	99.868 %
Concentration per Run 2	0.426 ppb	0.260 ppb	1,035.529 ppb	10,128.672 ppb	0.674 ppb	1.513 ppb	2.315 ppb	28.476 ppb	110.339 %
Concentration per Run 3	0.246 ppb	0.314 ppb	1,059.162 ppb	10,401.706 ppb	0.697 ppb	1.447 ppb	2.294 ppb	27.022 ppb	112.622 %
Concentration RSD	28.3 %	18.9 %	1.6 %	3.1 %	3.7 %	4.2 %	5.8 %	5.7 %	6.3 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	6.104 ppb	0.046 ppb	185.216 ppb	0.336 ppb	102.269 %	0.010 ppb	0.040 ppb	104.527 %	0.189 ppb
Concentration per Run 1	6.594 ppb	-0.009 ppb	190.253 ppb	0.315 ppb	99.640 %	0.012 ppb	0.039 ppb	98.636 %	0.212 ppb
Concentration per Run 2	6.061 ppb	0.080 ppb	181.672 ppb	0.365 ppb	102.880 %	0.010 ppb	0.048 ppb	106.793 %	0.197 ppb
Concentration per Run 3	5.658 ppb	0.068 ppb	183.724 ppb	0.329 ppb	104.287 %	0.007 ppb	0.034 ppb	108.153 %	0.159 ppb
Concentration RSD	7.7 %	105.1 %	2.4 %	7.6 %	2.3 %	25.2 %	17.2 %	4.9 %	14.4 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	23.469 ppb	106.632 %	106.170 %	0.004 ppb	0.823 ppb	101.194 %
Concentration per Run 1	24.203 ppb	101.969 %	102.754 %	-0.007 ppb	0.840 ppb	101.991 %
Concentration per Run 2	21.981 ppb	108.357 %	108.045 %	0.009 ppb	0.823 ppb	99.319 %
Concentration per Run 3	24.223 ppb	109.569 %	107.710 %	0.010 ppb	0.806 ppb	102.274 %
Concentration RSD	5.5 %	3.8 %	2.8 %	249.1 %	2.0 %	1.6 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index: 91
Analysis label: CCV
Analysis started at: 12/6/2023 10:44:35 PM
User name ALPHALAB\Metals-Instrument
Rack 0
Vial 9
Comment <Comment>

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.108 %	104.393 %	61.737 ppb	6,313.147 ppb	5,989.079 ppb	59.947 ppb	6,181.445 ppb	5,948.497 ppb	110.948 %
Concentration per Run 1	97.951 %	95.543 %	61.250 ppb	6,813.847 ppb	6,545.060 ppb	66.339 ppb	6,762.954 ppb	6,407.928 ppb	111.989 %
Concentration per Run 2	94.853 %	113.954 %	61.522 ppb	5,794.184 ppb	5,506.792 ppb	54.082 ppb	5,610.376 ppb	5,517.878 ppb	110.237 %
Concentration per Run 3	92.520 %	103.682 %	62.440 ppb	6,331.412 ppb	5,915.384 ppb	59.418 ppb	6,171.004 ppb	5,919.687 ppb	110.617 %
Recovery Percentage 1			102.895 %	105.219 %	99.818 %	99.911 %	103.024 %	99.142 %	
Concentration RSD	2.9 %	8.8 %	1.0 %	8.1 %	8.7 %	10.3 %	9.3 %	7.5 %	0.8 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	56.465 ppb	57.134 ppb	60.263 ppb	6,103.473 ppb	61.369 ppb	60.230 ppb	60.978 ppb	59.975 ppb	107.184 %
Concentration per Run 1	60.205 ppb	60.825 ppb	62.997 ppb	6,419.135 ppb	64.871 ppb	63.609 ppb	63.855 ppb	63.835 ppb	100.174 %
Concentration per Run 2	52.834 ppb	54.402 ppb	57.853 ppb	5,891.173 ppb	58.535 ppb	58.412 ppb	59.934 ppb	57.701 ppb	109.368 %
Concentration per Run 3	56.354 ppb	56.174 ppb	59.939 ppb	6,000.111 ppb	60.700 ppb	58.669 ppb	59.146 ppb	58.388 ppb	112.011 %
Recovery Percentage 1	94.108 %	95.223 %	100.439 %	101.725 %	102.281 %	100.383 %	101.631 %	99.958 %	
Concentration RSD	6.5 %	5.8 %	4.3 %	4.6 %	5.2 %	4.9 %	4.1 %	5.6 %	5.8 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.766 ppb	56.305 ppb	55.726 ppb	58.196 ppb	104.353 %	60.440 ppb	60.162 ppb	104.913 %	60.990 ppb
Concentration per Run 1	65.331 ppb	57.248 ppb	58.531 ppb	58.325 ppb	99.571 %	61.545 ppb	60.825 ppb	104.897 %	61.395 ppb
Concentration per Run 2	58.818 ppb	56.569 ppb	54.524 ppb	58.569 ppb	105.584 %	59.849 ppb	59.637 ppb	105.233 %	60.757 ppb
Concentration per Run 3	58.149 ppb	55.097 ppb	54.123 ppb	57.695 ppb	107.904 %	59.926 ppb	60.023 ppb	104.608 %	60.820 ppb
Recovery Percentage 1	101.276 %	93.841 %	92.877 %	96.993 %		100.734 %	100.270 %		101.651 %
Concentration RSD	6.5 %	2.0 %	4.4 %	0.8 %	4.1 %	1.6 %	1.0 %	0.3 %	0.6 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	56.481 ppb	105.317 %	104.963 %	57.835 ppb	58.759 ppb	101.652 %
Concentration per Run 1	56.337 ppb	99.935 %	97.860 %	55.747 ppb	57.599 ppb	105.136 %
Concentration per Run 2	57.020 ppb	107.146 %	106.734 %	57.783 ppb	58.731 ppb	99.943 %
Concentration per Run 3	56.085 ppb	108.869 %	110.295 %	59.975 ppb	59.948 ppb	99.878 %
Recovery Percentage 1	94.135 %			96.392 %	97.932 %	
Concentration RSD	0.9 %	4.5 %	6.1 %	3.7 %	2.0 %	3.0 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	92	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 10:49:18 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.185 %	105.426 %	0.007 ppb	8.532 ppb	0.673 ppb	0.497 ppb	-1.633 ppb	-4.900 ppb	102.817 %
Concentration per Run 1	97.788 %	105.426 %	0.009 ppb	14.682 ppb	0.736 ppb	0.895 ppb	0.890 ppb	-6.644 ppb	103.237 %
Concentration per Run 2	96.412 %	107.558 %	0.008 ppb	4.013 ppb	0.555 ppb	0.305 ppb	-4.745 ppb	-0.960 ppb	102.195 %
Concentration per Run 3	94.356 %	103.295 %	0.003 ppb	6.902 ppb	0.726 ppb	0.291 ppb	-1.042 ppb	-7.095 ppb	103.020 %
Recovery Percentage 1			1.301 %	8.532 %	0.961 %	4.970 %	-1.633 %	-4.900 %	
Concentration RSD	1.8 %	2.0 %	42.1 %	64.7 %	15.1 %	69.3 %	175.4 %	69.8 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.059 ppb	0.026 ppb	0.042 ppb	9.036 ppb	0.002 ppb	0.044 ppb	0.025 ppb	-0.149 ppb	104.910 %
Concentration per Run 1	-0.051 ppb	0.004 ppb	0.072 ppb	11.001 ppb	0.005 ppb	0.052 ppb	0.029 ppb	-0.121 ppb	100.344 %
Concentration per Run 2	-0.073 ppb	0.022 ppb	0.004 ppb	8.470 ppb	0.005 ppb	0.018 ppb	0.036 ppb	-0.153 ppb	105.885 %
Concentration per Run 3	-0.052 ppb	0.052 ppb	0.050 ppb	7.638 ppb	-0.005 ppb	0.064 ppb	0.009 ppb	-0.171 ppb	108.502 %
Recovery Percentage 1	-1.174 %	2.591 %	4.206 %	18.073 %	0.308 %	2.222 %	2.474 %	-2.973 %	
Concentration RSD	20.8 %	93.7 %	83.4 %	19.4 %	370.2 %	53.5 %	58.1 %	17.0 %	4.0 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.026 ppb	0.314 ppb	0.003 ppb	0.662 ppb	104.948 %	0.008 ppb	0.002 ppb	104.881 %	0.079 ppb
Concentration per Run 1	0.194 ppb	0.199 ppb	0.009 ppb	0.559 ppb	100.104 %	0.008 ppb	0.005 ppb	100.160 %	0.082 ppb
Concentration per Run 2	-0.024 ppb	0.357 ppb	-0.001 ppb	0.703 ppb	107.403 %	0.009 ppb	0.001 ppb	104.595 %	0.073 ppb
Concentration per Run 3	-0.093 ppb	0.386 ppb	0.000 ppb	0.723 ppb	107.337 %	0.006 ppb	0.000 ppb	109.889 %	0.081 ppb
Recovery Percentage 1	5.145 %	6.285 %	0.026 %	33.080 %		1.943 %	0.945 %		1.966 %
Concentration RSD	581.6 %	32.0 %	225.0 %	13.6 %	4.0 %	18.7 %	125.2 %	4.6 %	6.0 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.004 ppb	104.523 %	100.460 %	0.478 ppb	0.016 ppb	98.678 %
Concentration per Run 1	0.014 ppb	99.809 %	93.320 %	0.368 ppb	0.019 ppb	97.861 %
Concentration per Run 2	-0.001 ppb	105.542 %	104.005 %	0.551 ppb	0.015 ppb	98.666 %
Concentration per Run 3	-0.001 ppb	108.219 %	104.054 %	0.516 ppb	0.014 ppb	99.506 %
Recovery Percentage 1	0.809 %			47.836 %	1.602 %	
Concentration RSD	212.5 %	4.1 %	6.2 %	20.3 %	18.7 %	0.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	93	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371304-02 2008TL	Rack	2		
Analysis started at:	12/6/2023 10:54:01 PM	Vial	44		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.584 %	100.323 %	0.016 ppb	61,272.759 ppb	4,898.712 ppb	18.492 ppb	2,487.787 ppb	34,038.502 ppb	107.189 %
Concentration per Run 1	97.185 %	94.186 %	0.014 ppb	63,441.503 ppb	5,141.534 ppb	22.881 ppb	2,591.661 ppb	34,378.578 ppb	108.983 %
Concentration per Run 2	94.349 %	102.519 %	0.014 ppb	60,666.333 ppb	4,747.842 ppb	17.043 ppb	2,430.258 ppb	34,278.009 ppb	106.985 %
Concentration per Run 3	92.218 %	104.264 %	0.020 ppb	59,710.440 ppb	4,806.760 ppb	15.551 ppb	2,441.441 ppb	33,458.918 ppb	105.600 %
Concentration RSD	2.6 %	5.4 %	20.9 %	3.2 %	4.3 %	20.9 %	3.6 %	1.5 %	1.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.133 ppb	0.207 ppb	812.451 ppb	3,743.864 ppb	0.236 ppb	0.451 ppb	0.793 ppb	8.362 ppb	106.260 %
Concentration per Run 1	0.154 ppb	0.233 ppb	836.787 ppb	3,906.071 ppb	0.230 ppb	0.526 ppb	0.844 ppb	8.371 ppb	102.620 %
Concentration per Run 2	0.111 ppb	0.193 ppb	790.312 ppb	3,680.030 ppb	0.217 ppb	0.394 ppb	0.755 ppb	8.435 ppb	109.192 %
Concentration per Run 3	0.133 ppb	0.196 ppb	810.253 ppb	3,645.491 ppb	0.262 ppb	0.433 ppb	0.781 ppb	8.281 ppb	106.969 %
Concentration RSD	16.2 %	10.8 %	2.9 %	3.8 %	9.8 %	15.0 %	5.7 %	0.9 %	3.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.525 ppb	0.105 ppb	201.275 ppb	0.251 ppb	102.450 %	0.004 ppb	0.006 ppb	106.944 %	0.134 ppb
Concentration per Run 1	1.548 ppb	0.039 ppb	204.637 ppb	0.161 ppb	99.790 %	0.003 ppb	0.006 ppb	102.972 %	0.111 ppb
Concentration per Run 2	1.523 ppb	0.034 ppb	194.896 ppb	0.255 ppb	104.853 %	0.005 ppb	0.002 ppb	105.096 %	0.146 ppb
Concentration per Run 3	1.504 ppb	0.243 ppb	204.293 ppb	0.339 ppb	102.707 %	0.004 ppb	0.008 ppb	112.764 %	0.144 ppb
Concentration RSD	1.5 %	113.3 %	2.7 %	35.4 %	2.5 %	21.0 %	49.7 %	4.8 %	14.9 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	24.701 ppb	106.835 %	106.265 %	0.147 ppb	0.373 ppb	96.344 %
Concentration per Run 1	25.235 ppb	101.927 %	102.642 %	0.092 ppb	0.373 ppb	96.220 %
Concentration per Run 2	24.328 ppb	109.847 %	107.069 %	0.173 ppb	0.375 ppb	96.322 %
Concentration per Run 3	24.541 ppb	108.730 %	109.084 %	0.177 ppb	0.371 ppb	96.489 %
Concentration RSD	1.9 %	4.0 %	3.1 %	32.5 %	0.5 %	0.1 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	94	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371304-03 2008TL	Rack	2		
Analysis started at:	12/6/2023 10:58:41 PM	Vial	45		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.485 %	102.649 %	0.079 ppb	60,452.363 ppb	4,771.683 ppb	465.125 ppb	2,444.367 ppb	33,657.787 ppb	112.027 %
Concentration per Run 1	96.088 %	101.163 %	0.075 ppb	61,681.728 ppb	4,768.554 ppb	472.054 ppb	2,505.460 ppb	34,872.226 ppb	111.744 %
Concentration per Run 2	94.997 %	107.558 %	0.076 ppb	57,837.396 ppb	4,591.913 ppb	433.865 ppb	2,331.920 ppb	32,029.360 ppb	113.195 %
Concentration per Run 3	92.370 %	99.225 %	0.087 ppb	61,837.965 ppb	4,954.582 ppb	489.457 ppb	2,495.722 ppb	34,071.775 ppb	111.143 %
Concentration RSD	2.0 %	4.2 %	8.7 %	3.7 %	3.8 %	6.1 %	4.0 %	4.4 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	1.587 ppb	1.873 ppb	831.085 ppb	9,180.154 ppb	0.577 ppb	1.323 ppb	6.003 ppb	36.288 ppb	104.323 %
Concentration per Run 1	1.668 ppb	1.867 ppb	844.279 ppb	9,494.958 ppb	0.628 ppb	1.375 ppb	6.156 ppb	37.773 ppb	98.914 %
Concentration per Run 2	1.528 ppb	1.817 ppb	806.762 ppb	8,979.133 ppb	0.524 ppb	1.263 ppb	6.085 ppb	35.312 ppb	106.758 %
Concentration per Run 3	1.566 ppb	1.935 ppb	842.213 ppb	9,066.370 ppb	0.580 ppb	1.332 ppb	5.767 ppb	35.778 ppb	107.298 %
Concentration RSD	4.6 %	3.2 %	2.5 %	3.0 %	9.1 %	4.3 %	3.4 %	3.6 %	4.5 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	3.880 ppb	0.866 ppb	202.983 ppb	0.273 ppb	102.577 %	0.015 ppb	0.040 ppb	105.965 %	0.395 ppb
Concentration per Run 1	4.166 ppb	1.081 ppb	208.301 ppb	0.253 ppb	99.608 %	0.018 ppb	0.045 ppb	104.602 %	0.359 ppb
Concentration per Run 2	3.817 ppb	0.569 ppb	201.396 ppb	0.259 ppb	101.821 %	0.015 ppb	0.025 ppb	107.415 %	0.403 ppb
Concentration per Run 3	3.658 ppb	0.949 ppb	199.253 ppb	0.308 ppb	106.303 %	0.011 ppb	0.051 ppb	105.878 %	0.422 ppb
Concentration RSD	6.7 %	30.7 %	2.3 %	11.0 %	3.3 %	25.0 %	33.8 %	1.3 %	8.2 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	29.747 ppb	106.869 %	108.236 %	0.071 ppb	6.131 ppb	102.654 %
Concentration per Run 1	30.178 ppb	104.769 %	104.532 %	0.031 ppb	5.960 ppb	104.676 %
Concentration per Run 2	29.023 ppb	106.819 %	109.428 %	0.084 ppb	6.104 ppb	102.734 %
Concentration per Run 3	30.039 ppb	109.020 %	110.749 %	0.098 ppb	6.329 ppb	100.554 %
Concentration RSD	2.1 %	2.0 %	3.0 %	50.0 %	3.0 %	2.0 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	95	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371308-01 2008TL	Rack	2		
Analysis started at:	12/6/2023 11:03:21 PM	Vial	46		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	95.030 %	99.548 %	0.005 ppb	53,246.537 ppb	4,273.351 ppb	3.729 ppb	3,510.505 ppb	33,663.804 ppb	106.609 %
Concentration per Run 1	96.340 %	100.388 %	0.008 ppb	52,422.587 ppb	4,252.158 ppb	3.539 ppb	3,554.385 ppb	33,706.265 ppb	107.252 %
Concentration per Run 2	95.437 %	102.907 %	0.001 ppb	52,671.290 ppb	4,188.867 ppb	2.842 ppb	3,363.674 ppb	33,535.899 ppb	106.686 %
Concentration per Run 3	93.312 %	95.349 %	0.005 ppb	54,645.734 ppb	4,379.029 ppb	4.806 ppb	3,613.455 ppb	33,749.247 ppb	105.890 %
Concentration RSD	1.6 %	3.9 %	67.7 %	2.3 %	2.3 %	26.7 %	3.7 %	0.3 %	0.6 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.012 ppb	0.103 ppb	216.862 ppb	401.792 ppb	0.272 ppb	0.430 ppb	0.636 ppb	5.513 ppb	104.570 %
Concentration per Run 1	-0.007 ppb	0.111 ppb	214.747 ppb	401.020 ppb	0.306 ppb	0.450 ppb	0.715 ppb	5.606 ppb	101.311 %
Concentration per Run 2	0.034 ppb	0.104 ppb	218.958 ppb	409.007 ppb	0.257 ppb	0.461 ppb	0.648 ppb	5.366 ppb	102.771 %
Concentration per Run 3	0.011 ppb	0.093 ppb	216.880 ppb	395.350 ppb	0.252 ppb	0.380 ppb	0.544 ppb	5.567 ppb	109.627 %
Concentration RSD	166.9 %	8.6 %	1.0 %	1.7 %	11.0 %	10.2 %	13.6 %	2.3 %	4.2 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.518 ppb	0.099 ppb	190.739 ppb	0.202 ppb	100.958 %	0.001 ppb	-0.001 ppb	106.282 %	0.093 ppb
Concentration per Run 1	0.586 ppb	-0.068 ppb	191.580 ppb	0.172 ppb	98.868 %	0.000 ppb	-0.001 ppb	102.411 %	0.085 ppb
Concentration per Run 2	0.639 ppb	-0.022 ppb	193.931 ppb	0.172 ppb	100.838 %	0.000 ppb	0.001 ppb	106.154 %	0.099 ppb
Concentration per Run 3	0.330 ppb	0.387 ppb	186.707 ppb	0.262 ppb	103.167 %	0.005 ppb	-0.001 ppb	110.283 %	0.094 ppb
Concentration RSD	31.8 %	252.5 %	1.9 %	25.8 %	2.1 %	219.5 %	158.5 %	3.7 %	7.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	28.152 ppb	104.335 %	103.239 %	0.042 ppb	0.119 ppb	98.172 %
Concentration per Run 1	27.836 ppb	100.703 %	101.999 %	0.015 ppb	0.119 ppb	98.694 %
Concentration per Run 2	27.886 ppb	106.100 %	103.448 %	0.057 ppb	0.119 ppb	97.431 %
Concentration per Run 3	28.734 ppb	106.201 %	104.272 %	0.055 ppb	0.119 ppb	98.392 %
Concentration RSD	1.8 %	3.0 %	1.1 %	55.5 %	0.1 %	0.7 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	96	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371312-04 2008TL	Rack	2		
Analysis started at:	12/6/2023 11:08:01 PM	Vial	47		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	94.299 %	102.778 %	0.013 ppb	58,498.409 ppb	4,562.726 ppb	28.672 ppb	2,283.386 ppb	33,200.185 ppb	108.932 %
Concentration per Run 1	95.299 %	99.806 %	0.014 ppb	60,398.390 ppb	4,778.837 ppb	27.480 ppb	2,357.261 ppb	33,875.562 ppb	108.372 %
Concentration per Run 2	94.232 %	103.876 %	0.014 ppb	58,057.425 ppb	4,397.936 ppb	29.861 ppb	2,245.493 ppb	32,951.103 ppb	109.097 %
Concentration per Run 3	93.367 %	104.651 %	0.010 ppb	57,039.412 ppb	4,511.406 ppb	28.674 ppb	2,247.406 ppb	32,773.890 ppb	109.325 %
Concentration RSD	1.0 %	2.5 %	19.4 %	2.9 %	4.3 %	4.2 %	2.8 %	1.8 %	0.5 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.185 ppb	0.114 ppb	775.455 ppb	3,281.044 ppb	0.246 ppb	0.282 ppb	0.555 ppb	4.592 ppb	106.097 %
Concentration per Run 1	0.242 ppb	0.131 ppb	800.409 ppb	3,360.455 ppb	0.262 ppb	0.250 ppb	0.550 ppb	4.913 ppb	99.888 %
Concentration per Run 2	0.141 ppb	0.110 ppb	776.415 ppb	3,283.358 ppb	0.237 ppb	0.293 ppb	0.548 ppb	4.430 ppb	106.655 %
Concentration per Run 3	0.174 ppb	0.101 ppb	749.541 ppb	3,199.320 ppb	0.238 ppb	0.302 ppb	0.566 ppb	4.434 ppb	111.746 %
Concentration RSD	27.7 %	13.7 %	3.3 %	2.5 %	5.8 %	9.8 %	1.8 %	6.0 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.451 ppb	0.088 ppb	195.387 ppb	0.099 ppb	101.821 %	-0.001 ppb	0.013 ppb	105.546 %	0.077 ppb
Concentration per Run 1	1.634 ppb	0.149 ppb	197.898 ppb	0.073 ppb	99.972 %	0.000 ppb	0.014 ppb	103.342 %	0.061 ppb
Concentration per Run 2	1.340 ppb	0.144 ppb	195.007 ppb	0.077 ppb	102.343 %	-0.001 ppb	0.012 ppb	105.369 %	0.077 ppb
Concentration per Run 3	1.381 ppb	-0.030 ppb	193.255 ppb	0.146 ppb	103.148 %	-0.002 ppb	0.014 ppb	107.926 %	0.093 ppb
Concentration RSD	11.0 %	116.5 %	1.2 %	41.9 %	1.6 %	105.0 %	8.7 %	2.2 %	20.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	22.656 ppb	105.681 %	104.191 %	0.024 ppb	0.241 ppb	100.016 %
Concentration per Run 1	22.320 ppb	103.417 %	104.217 %	-0.001 ppb	0.234 ppb	101.059 %
Concentration per Run 2	23.481 ppb	105.676 %	103.090 %	0.034 ppb	0.242 ppb	99.592 %
Concentration per Run 3	22.166 ppb	107.951 %	105.266 %	0.040 ppb	0.245 ppb	99.398 %
Concentration RSD	3.2 %	2.1 %	1.0 %	91.1 %	2.4 %	0.9 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	97	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	L2371312-05 2008TL	Rack	2		
Analysis started at:	12/6/2023 11:12:41 PM	Vial	48		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	96.054 %	103.424 %	0.024 ppb	50,143.193 ppb	3,912.850 ppb	8.589 ppb	3,250.929 ppb	30,649.388 ppb	107.403 %
Concentration per Run 1	97.632 %	101.550 %	0.024 ppb	50,453.351 ppb	3,995.498 ppb	8.613 ppb	3,231.573 ppb	30,457.542 ppb	107.435 %
Concentration per Run 2	96.199 %	110.659 %	0.030 ppb	47,794.348 ppb	3,705.604 ppb	7.851 ppb	3,130.819 ppb	29,952.888 ppb	106.620 %
Concentration per Run 3	94.332 %	98.062 %	0.019 ppb	52,181.882 ppb	4,037.448 ppb	9.302 ppb	3,390.394 ppb	31,537.734 ppb	108.154 %
Concentration RSD	1.7 %	6.3 %	22.5 %	4.4 %	4.6 %	8.4 %	4.0 %	2.6 %	0.7 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	0.108 ppb	0.097 ppb	354.067 ppb	2,324.011 ppb	0.343 ppb	0.430 ppb	0.677 ppb	12.813 ppb	108.106 %
Concentration per Run 1	0.121 ppb	0.120 ppb	355.940 ppb	2,324.757 ppb	0.302 ppb	0.406 ppb	0.650 ppb	12.417 ppb	107.531 %
Concentration per Run 2	0.075 ppb	0.080 ppb	351.751 ppb	2,261.777 ppb	0.366 ppb	0.490 ppb	0.718 ppb	13.006 ppb	107.621 %
Concentration per Run 3	0.128 ppb	0.090 ppb	354.509 ppb	2,385.499 ppb	0.360 ppb	0.394 ppb	0.664 ppb	13.017 ppb	109.166 %
Concentration RSD	26.8 %	21.6 %	0.6 %	2.7 %	10.3 %	12.2 %	5.3 %	2.7 %	0.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	1.117 ppb	0.369 ppb	176.653 ppb	0.077 ppb	101.854 %	0.001 ppb	0.007 ppb	107.903 %	0.089 ppb
Concentration per Run 1	1.015 ppb	0.224 ppb	174.229 ppb	0.062 ppb	99.365 %	0.002 ppb	0.004 ppb	106.198 %	0.084 ppb
Concentration per Run 2	1.287 ppb	0.447 ppb	176.941 ppb	0.085 ppb	102.764 %	0.001 ppb	0.008 ppb	105.177 %	0.109 ppb
Concentration per Run 3	1.050 ppb	0.437 ppb	178.788 ppb	0.084 ppb	103.433 %	0.000 ppb	0.008 ppb	112.335 %	0.075 ppb
Concentration RSD	13.2 %	34.0 %	1.3 %	16.8 %	2.1 %	93.1 %	30.5 %	3.6 %	19.5 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	25.635 ppb	105.931 %	104.728 %	0.020 ppb	0.280 ppb	98.339 %
Concentration per Run 1	25.751 ppb	104.573 %	101.942 %	0.000 ppb	0.278 ppb	98.890 %
Concentration per Run 2	25.567 ppb	105.583 %	106.018 %	0.028 ppb	0.283 ppb	98.082 %
Concentration per Run 3	25.587 ppb	107.639 %	106.225 %	0.031 ppb	0.278 ppb	98.043 %
Concentration RSD	0.4 %	1.5 %	2.3 %	86.8 %	1.0 %	0.5 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	98	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 11:17:21 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.995 %	97.933 %	61.629 ppb	7,283.173 ppb	6,227.576 ppb	62.717 ppb	6,165.418 ppb	6,153.935 ppb	108.520 %
Concentration per Run 1	95.082 %	100.581 %	60.888 ppb	7,502.715 ppb	6,179.532 ppb	64.958 ppb	6,402.828 ppb	6,430.432 ppb	109.797 %
Concentration per Run 2	93.216 %	100.969 %	61.753 ppb	7,571.695 ppb	6,144.621 ppb	62.098 ppb	5,907.091 ppb	5,848.812 ppb	109.789 %
Concentration per Run 3	90.688 %	92.248 %	62.245 ppb	6,775.109 ppb	6,358.576 ppb	61.095 ppb	6,186.336 ppb	6,182.562 ppb	105.974 %
Recovery Percentage 1			102.715 %	121.386 %	103.793 %	104.528 %	102.757 %	102.566 %	
Concentration RSD	2.4 %	5.0 %	1.1 %	6.1 %	1.8 %	3.2 %	4.0 %	4.7 %	2.0 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	58.569 ppb	58.968 ppb	61.142 ppb	6,126.345 ppb	61.687 ppb	60.866 ppb	60.942 ppb	59.182 ppb	106.208 %
Concentration per Run 1	58.430 ppb	59.039 ppb	61.369 ppb	6,336.073 ppb	63.939 ppb	62.668 ppb	63.175 ppb	60.867 ppb	99.888 %
Concentration per Run 2	56.386 ppb	58.629 ppb	60.564 ppb	6,080.546 ppb	61.310 ppb	59.937 ppb	59.761 ppb	58.283 ppb	106.932 %
Concentration per Run 3	60.891 ppb	59.237 ppb	61.492 ppb	5,962.415 ppb	59.812 ppb	59.992 ppb	59.889 ppb	58.397 ppb	111.802 %
Recovery Percentage 1	97.615 %	98.280 %	101.903 %	102.106 %	102.812 %	101.443 %	101.570 %	98.637 %	
Concentration RSD	3.9 %	0.5 %	0.8 %	3.1 %	3.4 %	2.6 %	3.2 %	2.5 %	5.6 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	59.269 ppb	57.359 ppb	55.382 ppb	57.692 ppb	102.732 %	59.756 ppb	60.338 ppb	104.395 %	59.540 ppb
Concentration per Run 1	62.167 ppb	62.468 ppb	57.287 ppb	58.170 ppb	98.117 %	60.497 ppb	60.947 ppb	102.246 %	60.621 ppb
Concentration per Run 2	58.785 ppb	54.437 ppb	54.256 ppb	58.048 ppb	104.186 %	59.353 ppb	60.638 ppb	103.569 %	60.400 ppb
Concentration per Run 3	56.857 ppb	55.173 ppb	54.602 ppb	56.859 ppb	105.895 %	59.419 ppb	59.429 ppb	107.371 %	57.599 ppb
Recovery Percentage 1	98.782 %	95.599 %	92.303 %	96.154 %		99.594 %	100.563 %		99.234 %
Concentration RSD	4.5 %	7.7 %	3.0 %	1.3 %	4.0 %	1.1 %	1.3 %	2.5 %	2.8 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	55.056 ppb	103.863 %	100.900 %	60.044 ppb	57.390 ppb	101.929 %
Concentration per Run 1	58.051 ppb	100.056 %	96.936 %	53.845 ppb	55.553 ppb	104.664 %
Concentration per Run 2	53.928 ppb	103.732 %	101.408 %	56.912 ppb	57.813 ppb	101.338 %
Concentration per Run 3	53.189 ppb	107.800 %	104.357 %	69.373 ppb	58.804 ppb	99.786 %
Recovery Percentage 1	91.760 %			100.073 %	95.650 %	
Concentration RSD	4.8 %	3.7 %	3.7 %	13.7 %	2.9 %	2.4 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	99	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 11:22:04 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.975 %	101.486 %	0.009 ppb	20.030 ppb	0.888 ppb	0.275 ppb	-0.807 ppb	-2.476 ppb	100.288 %
Concentration per Run 1	95.159 %	91.667 %	0.001 ppb	35.647 ppb	1.538 ppb	0.440 ppb	14.624 ppb	6.837 ppb	101.932 %
Concentration per Run 2	94.214 %	110.465 %	0.013 ppb	7.953 ppb	0.530 ppb	0.095 ppb	-8.696 ppb	-6.104 ppb	101.128 %
Concentration per Run 3	89.551 %	102.326 %	0.012 ppb	16.491 ppb	0.596 ppb	0.290 ppb	-8.349 ppb	-8.160 ppb	97.804 %
Recovery Percentage 1			1.744 %	20.030 %	1.268 %	2.749 %	-0.807 %	-2.476 %	
Concentration RSD	3.2 %	9.3 %	78.1 %	70.8 %	63.6 %	63.0 %	1,656.3 %	328.4 %	2.2 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.044 ppb	0.028 ppb	0.038 ppb	9.328 ppb	0.002 ppb	0.055 ppb	0.029 ppb	-0.274 ppb	104.404 %
Concentration per Run 1	-0.034 ppb	0.063 ppb	-0.022 ppb	10.207 ppb	0.006 ppb	0.047 ppb	0.032 ppb	-0.267 ppb	98.174 %
Concentration per Run 2	-0.038 ppb	0.013 ppb	0.137 ppb	8.229 ppb	0.002 ppb	0.052 ppb	0.023 ppb	-0.290 ppb	104.124 %
Concentration per Run 3	-0.059 ppb	0.008 ppb	0.001 ppb	9.548 ppb	-0.001 ppb	0.066 ppb	0.031 ppb	-0.264 ppb	110.913 %
Recovery Percentage 1	-0.879 %	2.811 %	3.839 %	18.656 %	0.436 %	2.756 %	2.861 %	-5.474 %	
Concentration RSD	30.8 %	108.1 %	223.8 %	10.8 %	157.4 %	17.8 %	15.7 %	5.3 %	6.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.087 ppb	0.285 ppb	0.006 ppb	0.645 ppb	103.752 %	0.007 ppb	0.001 ppb	104.493 %	0.041 ppb
Concentration per Run 1	0.138 ppb	0.174 ppb	0.027 ppb	0.508 ppb	98.089 %	0.006 ppb	-0.001 ppb	97.764 %	0.042 ppb
Concentration per Run 2	-0.019 ppb	0.516 ppb	-0.002 ppb	0.702 ppb	105.827 %	0.008 ppb	0.002 ppb	106.692 %	0.046 ppb
Concentration per Run 3	0.142 ppb	0.166 ppb	-0.007 ppb	0.727 ppb	107.339 %	0.007 ppb	0.001 ppb	109.022 %	0.037 ppb
Recovery Percentage 1	17.358 %	5.707 %	0.059 %	32.274 %		1.759 %	0.264 %		1.035 %
Concentration RSD	105.4 %	70.2 %	306.8 %	18.6 %	4.8 %	18.3 %	353.9 %	5.7 %	10.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.004 ppb	102.013 %	99.379 %	0.505 ppb	0.016 ppb	96.616 %
Concentration per Run 1	0.000 ppb	97.889 %	94.668 %	0.384 ppb	0.019 ppb	96.402 %
Concentration per Run 2	-0.001 ppb	102.338 %	101.240 %	0.616 ppb	0.017 ppb	95.770 %
Concentration per Run 3	0.012 ppb	105.814 %	102.231 %	0.513 ppb	0.012 ppb	97.677 %
Recovery Percentage 1	0.782 %			50.451 %	1.589 %	
Concentration RSD	180.1 %	3.9 %	4.1 %	23.1 %	23.4 %	1.0 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	100	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCV	Rack	0		
Analysis started at:	12/6/2023 11:26:47 PM	Vial	9		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.364 %	101.486 %	62.074 ppb	6,982.488 ppb	6,034.925 ppb	58.923 ppb	6,271.624 ppb	6,117.616 ppb	106.678 %
Concentration per Run 1	95.987 %	94.767 %	61.802 ppb	7,533.082 ppb	6,196.623 ppb	63.644 ppb	6,440.203 ppb	6,404.861 ppb	107.900 %
Concentration per Run 2	93.901 %	102.907 %	62.083 ppb	7,252.361 ppb	5,885.485 ppb	55.572 ppb	6,175.921 ppb	5,727.638 ppb	107.063 %
Concentration per Run 3	90.205 %	106.783 %	62.336 ppb	6,162.019 ppb	6,022.669 ppb	57.552 ppb	6,198.747 ppb	6,220.347 ppb	105.070 %
Recovery Percentage 1			103.456 %	116.375 %	100.582 %	98.205 %	104.527 %	101.960 %	
Concentration RSD	3.1 %	6.0 %	0.4 %	10.4 %	2.6 %	7.1 %	2.3 %	5.7 %	1.4 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	57.962 ppb	59.252 ppb	61.389 ppb	6,112.512 ppb	61.604 ppb	61.350 ppb	60.170 ppb	60.287 ppb	105.765 %
Concentration per Run 1	60.515 ppb	60.533 ppb	60.938 ppb	6,148.943 ppb	63.808 ppb	62.644 ppb	61.876 ppb	62.258 ppb	101.525 %
Concentration per Run 2	54.490 ppb	57.855 ppb	60.275 ppb	6,066.858 ppb	59.763 ppb	60.466 ppb	58.029 ppb	58.185 ppb	109.849 %
Concentration per Run 3	58.881 ppb	59.366 ppb	62.955 ppb	6,121.735 ppb	61.241 ppb	60.940 ppb	60.605 ppb	60.417 ppb	105.921 %
Recovery Percentage 1	96.603 %	98.753 %	102.316 %	101.875 %	102.673 %	102.250 %	100.284 %	100.478 %	
Concentration RSD	5.4 %	2.3 %	2.3 %	0.7 %	3.3 %	1.9 %	3.3 %	3.4 %	3.9 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	60.961 ppb	60.425 ppb	56.150 ppb	59.052 ppb	103.702 %	61.451 ppb	61.268 ppb	103.085 %	61.792 ppb
Concentration per Run 1	63.033 ppb	62.079 ppb	57.409 ppb	60.344 ppb	100.016 %	64.117 ppb	63.289 ppb	97.736 %	63.922 ppb
Concentration per Run 2	58.248 ppb	57.374 ppb	54.723 ppb	58.085 ppb	103.358 %	59.917 ppb	59.669 ppb	104.924 %	59.800 ppb
Concentration per Run 3	61.602 ppb	61.821 ppb	56.318 ppb	58.726 ppb	107.732 %	60.319 ppb	60.846 ppb	106.595 %	61.655 ppb
Recovery Percentage 1	101.601 %	100.708 %	93.583 %	98.419 %		102.418 %	102.113 %		102.987 %
Concentration RSD	4.0 %	4.4 %	2.4 %	2.0 %	3.7 %	3.8 %	3.0 %	4.6 %	3.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	58.540 ppb	103.407 %	101.961 %	59.429 ppb	60.529 ppb	98.498 %
Concentration per Run 1	61.381 ppb	97.826 %	97.727 %	57.309 ppb	58.460 ppb	100.827 %
Concentration per Run 2	56.995 ppb	104.656 %	102.826 %	59.091 ppb	60.336 ppb	97.306 %
Concentration per Run 3	57.243 ppb	107.739 %	105.330 %	61.886 ppb	62.791 ppb	97.361 %
Recovery Percentage 1	97.566 %			99.048 %	100.882 %	
Concentration RSD	4.2 %	4.9 %	3.8 %	3.9 %	3.6 %	2.0 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	101	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	CCB	Rack	0		
Analysis started at:	12/6/2023 11:31:30 PM	Vial	10		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	93.929 %	109.690 %	0.011 ppb	6.014 ppb	0.433 ppb	0.378 ppb	-5.043 ppb	0.333 ppb	103.204 %
Concentration per Run 1	94.577 %	103.101 %	0.012 ppb	13.416 ppb	1.305 ppb	0.782 ppb	4.197 ppb	-0.070 ppb	102.441 %
Concentration per Run 2	94.269 %	109.496 %	0.014 ppb	5.106 ppb	-0.108 ppb	0.084 ppb	-13.547 ppb	0.573 ppb	102.907 %
Concentration per Run 3	92.940 %	116.473 %	0.007 ppb	-0.479 ppb	0.103 ppb	0.269 ppb	-5.780 ppb	0.496 ppb	104.263 %
Recovery Percentage 1			2.227 %	6.014 %	0.619 %	3.782 %	-5.043 %	0.333 %	
Concentration RSD	0.9 %	6.1 %	34.4 %	116.3 %	176.0 %	95.6 %	176.4 %	105.4 %	0.9 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	-0.052 ppb	-0.010 ppb	0.096 ppb	8.336 ppb	0.001 ppb	0.037 ppb	0.039 ppb	-0.249 ppb	104.145 %
Concentration per Run 1	-0.044 ppb	-0.037 ppb	0.061 ppb	7.760 ppb	0.001 ppb	0.028 ppb	0.069 ppb	-0.258 ppb	100.391 %
Concentration per Run 2	-0.060 ppb	-0.007 ppb	0.106 ppb	8.501 ppb	0.004 ppb	0.048 ppb	0.021 ppb	-0.243 ppb	108.819 %
Concentration per Run 3	-0.053 ppb	0.013 ppb	0.122 ppb	8.746 ppb	-0.001 ppb	0.037 ppb	0.027 ppb	-0.247 ppb	103.226 %
Recovery Percentage 1	-1.039 %	-1.016 %	9.622 %	16.671 %	0.280 %	1.874 %	3.891 %	-4.986 %	
Concentration RSD	15.4 %	248.7 %	33.0 %	6.2 %	186.6 %	27.2 %	66.3 %	3.2 %	4.1 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.001 ppb	0.333 ppb	0.007 ppb	0.628 ppb	105.286 %	0.007 ppb	0.000 ppb	105.666 %	0.050 ppb
Concentration per Run 1	0.135 ppb	0.375 ppb	0.009 ppb	0.627 ppb	102.475 %	0.007 ppb	0.001 ppb	101.591 %	0.048 ppb
Concentration per Run 2	-0.130 ppb	0.317 ppb	0.000 ppb	0.533 ppb	106.013 %	0.008 ppb	-0.001 ppb	106.300 %	0.049 ppb
Concentration per Run 3	-0.002 ppb	0.308 ppb	0.010 ppb	0.725 ppb	107.371 %	0.007 ppb	0.001 ppb	109.106 %	0.054 ppb
Recovery Percentage 1	0.267 %	6.666 %	0.067 %	31.421 %		1.851 %	-0.034 %		1.260 %
Concentration RSD	9,931.5 %	11.0 %	81.6 %	15.3 %	2.4 %	10.6 %	1,617.2 %	3.6 %	6.7 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	-0.005 ppb	103.202 %	101.712 %	0.556 ppb	0.015 ppb	100.619 %
Concentration per Run 1	0.000 ppb	101.255 %	96.724 %	0.398 ppb	0.019 ppb	101.590 %
Concentration per Run 2	-0.001 ppb	103.755 %	104.403 %	0.639 ppb	0.013 ppb	100.186 %
Concentration per Run 3	-0.014 ppb	104.597 %	104.009 %	0.631 ppb	0.012 ppb	100.082 %
Recovery Percentage 1	-0.988 %			55.606 %	1.477 %	
Concentration RSD	158.1 %	1.7 %	4.3 %	24.6 %	28.1 %	0.8 %

Alpha ICPMSQ Data

12/7/2023 4:45:35 AM

Analysis index:	102	User name	ALPHALAB\Metals-Instrument	Comment	<Comment>
Analysis label:	LLCCV	Rack	4		
Analysis started at:	12/6/2023 11:36:13 PM	Vial	51		

Category	6Li (STD AGD)	6Li (KED AGD)	9Be (STD AGD)	23Na (KED AGD)	24Mg (KED AGD)	27Al (KED AGD)	39K (KED AGD)	44Ca (KED AGD)	45Sc (STD AGD)
Concentration average	92.397 %	97.287 %	0.311 ppb	125.599 ppb	76.213 ppb	11.841 ppb	106.491 ppb	193.548 ppb	100.583 %
Concentration per Run 1	93.740 %	88.566 %	0.294 ppb	148.214 ppb	83.694 ppb	12.800 ppb	112.857 ppb	217.848 ppb	101.327 %
Concentration per Run 2	92.289 %	105.426 %	0.334 ppb	109.194 ppb	67.222 ppb	11.876 ppb	110.774 ppb	167.240 ppb	99.066 %
Concentration per Run 3	91.161 %	97.868 %	0.307 ppb	119.388 ppb	77.724 ppb	10.848 ppb	95.842 ppb	195.556 ppb	101.357 %
Recovery Percentage 1			62.276 %	125.599 %	108.876 %	118.414 %	106.491 %	193.548 %	
Concentration RSD	1.4 %	8.7 %	6.5 %	16.1 %	10.9 %	8.2 %	8.7 %	13.1 %	1.3 %

Category	51V (KED AGD)	52Cr (KED AGD)	55Mn (KED AGD)	57Fe (KED AGD)	59Co (KED AGD)	60Ni (KED AGD)	65Cu (KED AGD)	66Zn (KED AGD)	74Ge (KED AGD)
Concentration average	5.196 ppb	0.515 ppb	3.217 ppb	539.949 ppb	0.523 ppb	2.130 ppb	1.624 ppb	11.309 ppb	103.693 %
Concentration per Run 1	5.647 ppb	0.582 ppb	3.613 ppb	576.804 ppb	0.611 ppb	2.301 ppb	1.899 ppb	12.322 ppb	95.772 %
Concentration per Run 2	4.777 ppb	0.442 ppb	2.985 ppb	513.300 ppb	0.461 ppb	2.064 ppb	1.535 ppb	10.887 ppb	106.948 %
Concentration per Run 3	5.166 ppb	0.521 ppb	3.054 ppb	529.743 ppb	0.497 ppb	2.025 ppb	1.438 ppb	10.718 ppb	108.359 %
Recovery Percentage 1	103.929 %	51.475 %	321.743 %	1,079.898 %	104.591 %	106.509 %	162.389 %	113.089 %	
Concentration RSD	8.4 %	13.7 %	10.7 %	6.1 %	15.0 %	7.0 %	15.0 %	7.8 %	6.7 %

Category	75As (KED AGD)	78Se (KED AGD)	88Sr (KED AGD)	95Mo (KED AGD)	103Rh (KED AGD)	107Ag (KED AGD)	111Cd (KED AGD)	115In (KED AGD)	121Sb (KED AGD)
Concentration average	0.523 ppb	4.811 ppb	0.477 ppb	2.206 ppb	103.825 %	0.204 ppb	0.200 ppb	104.614 %	2.134 ppb
Concentration per Run 1	0.766 ppb	5.746 ppb	0.500 ppb	2.228 ppb	100.941 %	0.217 ppb	0.208 ppb	100.411 %	2.165 ppb
Concentration per Run 2	0.281 ppb	4.120 ppb	0.490 ppb	2.100 ppb	104.557 %	0.206 ppb	0.207 ppb	106.325 %	2.077 ppb
Concentration per Run 3	0.522 ppb	4.567 ppb	0.441 ppb	2.289 ppb	105.979 %	0.189 ppb	0.185 ppb	107.107 %	2.158 ppb
Recovery Percentage 1	104.602 %	96.222 %	95.440 %	110.282 %		51.063 %	99.970 %		53.340 %
Concentration RSD	46.4 %	17.5 %	6.7 %	4.4 %	2.5 %	6.8 %	6.6 %	3.5 %	2.3 %

Category	137Ba (KED AGD)	159Tb (KED AGD)	175Lu (KED AGD)	205Tl (KED AGD)	208Pb (KED AGD)	209Bi (KED AGD)
Concentration average	0.419 ppb	103.792 %	101.952 %	0.614 ppb	0.493 ppb	102.124 %
Concentration per Run 1	0.409 ppb	97.619 %	97.165 %	0.511 ppb	0.482 ppb	104.254 %
Concentration per Run 2	0.410 ppb	104.598 %	103.367 %	0.666 ppb	0.511 ppb	98.982 %
Concentration per Run 3	0.438 ppb	109.160 %	105.324 %	0.666 ppb	0.485 ppb	103.137 %
Recovery Percentage 1	83.747 %			122.857 %	98.599 %	
Concentration RSD	3.9 %	5.6 %	4.2 %	14.6 %	3.2 %	2.7 %

Interference Check Solutions
(ICP-MS)

Solution Component	Solution A Concentration (ug/L)	Solution AB Concentration (ug/L)
Al	20,000	20,000
Ca	60,000	60,000
Fe	50,000	50,000
Mg	20,000	20,000
Na	50,000	50,000
K	20,000	20,000
Mo	400	400
As	0.0	20
Cd	0.0	20
Cr	0.0	40
Co	0.0	40
Cu	0.0	40
Mn	0.0	40
Ni	0.0	40
Se	0.0	20
Ag	0.0	10
V	0.0	40
Zn	0.0	20

LCS & MS Concentrations
(ICP-MS)

Element	Liquid Concentration (mg/L)
Aluminum	2.00
Antimony	0.5
Arsenic	0.12
Barium	2.00
Beryllium	0.05
Cadmium	0.051
Calcium	10.0
Chromium	0.20
Cobalt	0.50
Copper	0.25
Iron	1.00
Lead	0.51
Magnesium	10.0
Manganese	0.50
Molybdenum	1.00
Nickel	0.50
Potassium	10.0
Selenium	0.12
Silver	0.05
Sodium	10.0
Thallium	0.12
Vanadium	0.50
Zinc	0.50

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

ERA
A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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ERA
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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

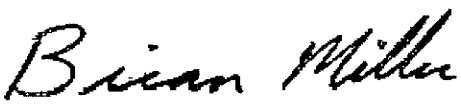
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

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Calculation of Method 6020 Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Alpha ICPMSQ Seq

12/6/2023 5:21:03 AM

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	12/5/2023 5:28:39 AM
2	CAL LOT #M22-1040	0	1	3	1	12/5/2023 5:33:16 AM
3	Blank NTB ICPMSQ	4	49	3	1	12/5/2023 5:37:53 AM
4	0.2/20 Cal	0	2	3	1	12/5/2023 5:42:35 AM
5	1/100 Cal	0	3	3	1	12/5/2023 5:47:12 AM
6	10/1000 Cal	0	4	3	1	12/5/2023 5:51:50 AM
7	60/6000 Cal	0	5	3	1	12/5/2023 5:56:29 AM
8	120/12000 Cal	0	6	3	1	12/5/2023 6:01:08 AM
9	Sr 200ppb	4	55	3	1	12/5/2023 6:09:36 AM
10	ICV	0	7	3	1	12/5/2023 6:14:18 AM
11	ICB	0	10	3	1	12/5/2023 6:18:59 AM
12	LLCCV	4	51	3	1	12/5/2023 6:37:18 AM
13	ICSA	4	53	3	1	12/5/2023 6:42:00 AM
14	Rinse	0	1	3	1	12/5/2023 6:46:42 AM
15	CCV	0	9	3	1	12/5/2023 6:51:18 AM
16	CCB	0	10	3	1	12/5/2023 6:56:00 AM
17	WG1858114-1 2008SL	1	1	3	1	12/5/2023 7:41:41 AM
18	WG1834947-1 A2-6020T	1	27	3	1	12/5/2023 7:46:18 AM
19	WG1858114-2d5 2008SL	1	2	3	1	12/5/2023 7:54:39 AM
20	WG1858114-3d10 2008SL	1	4	3	1	12/5/2023 7:59:16 AM
21	WG1858114-4d10 2008SL	1	5	3	1	12/5/2023 8:03:54 AM
22	WG1858114-5d10 2008SL	1	7	3	1	12/5/2023 8:08:33 AM
23	WG1858114-6 2008SL	1	8	3	1	12/5/2023 8:13:12 AM
24	L2370175-05 2008SL	1	3	3	1	12/5/2023 8:17:51 AM
25	L2370175-06 2008SL	1	6	3	1	12/5/2023 8:22:29 AM
26	L2370007-03d5 6020TL	1	28	3	1	12/5/2023 8:27:52 AM
27	CCV	0	9	3	1	12/5/2023 8:32:29 AM
28	CCB	0	10	3	1	12/5/2023 8:37:11 AM
29	L2370021-01 2008SL	1	9	3	1	12/5/2023 8:43:21 AM
30	L2370027-01 2008SL	1	10	3	1	12/5/2023 8:48:01 AM
31	L2370027-02 2008SL	1	11	3	1	12/5/2023 8:52:41 AM
32	L2370027-03 2008SL	1	12	3	1	12/5/2023 8:57:21 AM
33	L2370027-04 2008SL	1	13	3	1	12/5/2023 9:02:02 AM
34	L2370027-05 2008SL	1	14	3	1	12/5/2023 9:06:38 AM
35	L2370027-06 2008SL	1	15	3	1	12/5/2023 9:11:15 AM
36	L2370027-07 2008SL	1	16	3	1	12/5/2023 9:15:53 AM
37	L2370027-08 2008SL	1	17	3	1	12/5/2023 9:20:30 AM
38	L2370027-09 2008SL	1	18	3	1	12/5/2023 9:25:08 AM
39	CCV	0	9	3	1	12/5/2023 9:29:46 AM
40	CCB	0	10	3	1	12/5/2023 9:34:28 AM
41	L2370027-10 2008SL	1	19	3	1	12/5/2023 9:39:18 AM
42	L2370027-11 2008SL	1	20	3	1	12/5/2023 9:43:56 AM
43	L2370027-12 2008SL	1	21	3	1	12/5/2023 9:48:34 AM
44	L2370175-01 2008SL	1	22	3	1	12/5/2023 9:53:13 AM
45	L2370175-02 2008SL	1	23	3	1	12/5/2023 9:57:52 AM
46	L2370175-03 2008SL	1	24	3	1	12/5/2023 10:02:32 AM
47	L2370175-04 2008SL	1	25	3	1	12/5/2023 10:07:12 AM
48	L2370175-07 2008SL	1	26	3	1	12/5/2023 10:11:49 AM
49	CCV	0	9	3	1	12/5/2023 10:16:26 AM
50	CCB	0	10	3	1	12/5/2023 10:21:08 AM
51	WG1856782-1 MCP-6020SL-10	1	29	3	1	12/5/2023 10:27:28 AM

Alpha ICPMSQ Seq

12/6/2023 5:21:03 AM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	WG1856782-2d10 MCP-6020SL-10	1	30	3	1	12/5/2023 10:32:06 AM
53	WG1856782-3d10 MCP-6020SL-10	1	31	3	1	12/5/2023 10:36:44 AM
54	I2369317-31 MCP-6020SL-10	1	32	3	1	12/5/2023 10:41:23 AM
55	I2369317-32 MCP-6020SL-10	1	33	3	1	12/5/2023 10:46:01 AM
56	I2369317-33 MCP-6020SL-10	1	34	3	1	12/5/2023 10:50:40 AM
57	I2369317-34 MCP-6020SL-10	1	35	3	1	12/5/2023 10:55:20 AM
58	I2369317-35 MCP-6020SL-10	1	36	3	1	12/5/2023 10:59:59 AM
59	CCV	0	9	3	1	12/5/2023 11:04:39 AM
60	CCB	0	10	3	1	12/5/2023 11:09:21 AM
61	line blew out	1	37	3	1	12/5/2023 11:21:30 AM
62	xWG1859770-1 6020TL	1	37	3	1	12/5/2023 11:32:23 AM
63	WG1859770-1 6020TL	1	37	3	1	12/5/2023 11:37:47 AM
64	WG1859770-2d5 6020TL	1	38	3	1	12/5/2023 11:49:07 AM
65	WG1859770-3d10 6020TL	1	40	3	1	12/5/2023 11:53:44 AM
66	WG1859770-4d10 6020TL	1	41	3	1	12/5/2023 11:58:21 AM
67	WG1859770-5d10 6020TL	1	42	3	1	12/5/2023 12:03:00 PM
68	WG1859770-6d5 6020TL	1	43	3	1	12/5/2023 12:07:38 PM
69	I2370783-04 6020TL	1	39	3	1	12/5/2023 12:12:17 PM
70	I2371255-01 6020TL	2	3	3	1	12/5/2023 12:16:55 PM
71	I2371255-02 6020TL	2	4	3	1	12/5/2023 12:21:33 PM
72	CCV	0	9	3	1	12/5/2023 12:26:12 PM
73	CCB	0	10	3	1	12/5/2023 12:30:54 PM
74	I2370783-11 6020TL	1	57	3	1	12/5/2023 12:37:50 PM
75	WG1859770-7d10 6020TL	1	45	3	1	12/5/2023 12:42:31 PM
76	WG1859770-8d10 6020TL	1	46	3	1	12/5/2023 12:47:10 PM
77	xWG1859770-9d10 6020TL	1	47	3	1	12/5/2023 12:51:49 PM
78	WG1859770-10d5 6020TL	1	48	3	1	12/5/2023 12:56:29 PM
79	I2371040-03 6020TL	1	44	3	1	12/5/2023 1:01:09 PM
80	I2370783-01 6020TL	1	49	3	1	12/5/2023 1:05:48 PM
81	I2370783-02 6020TL	1	50	3	1	12/5/2023 1:10:26 PM
82	I2370783-03 6020TL	1	51	3	1	12/5/2023 1:15:05 PM
83	I2370783-05 6020TL	1	52	3	1	12/5/2023 1:19:43 PM
84	CCV	0	9	3	1	12/5/2023 1:24:21 PM
85	CCB	0	10	3	1	12/5/2023 1:29:04 PM
86	I2370783-06 6020TL	1	53	3	1	12/5/2023 1:34:04 PM
87	I2370783-07 6020TL	1	54	3	1	12/5/2023 1:38:43 PM
88	I2370783-08 6020TL	1	55	3	1	12/5/2023 1:43:21 PM
89	I2370783-09 6020TL	1	56	3	1	12/5/2023 1:48:00 PM
90	I2371040-01 6020TL	1	58	3	1	12/5/2023 1:52:39 PM
91	I2371040-02 6020TL	1	59	3	1	12/5/2023 1:57:18 PM
92	I2371040-04 6020TL	1	60	3	1	12/5/2023 2:01:58 PM
93	I2371040-05 6020TL	2	1	3	1	12/5/2023 2:06:39 PM
94	I2371040-06 6020TL	2	2	3	1	12/5/2023 2:11:18 PM
95	CCV	0	9	3	1	12/5/2023 2:15:57 PM
96	CCB	0	10	3	1	12/5/2023 2:20:40 PM
97	WG1858756-1 2008SL	2	5	3	1	12/5/2023 2:34:15 PM
98	WG1858756-2d5 2008SL	2	6	3	1	12/5/2023 2:42:27 PM
99	WG1859770-9d10 6020TL	1	47	3	1	12/5/2023 2:47:04 PM
100	WG1858756-3d10 2008SL	2	8	3	1	12/5/2023 2:51:44 PM
101	WG1858756-4d10 2008SL	2	9	3	1	12/5/2023 2:56:24 PM
102	L2370494-03 2008SL	2	7	3	1	12/5/2023 3:01:03 PM
103	L2370494-01 2008SL	2	10	3	1	12/5/2023 3:05:43 PM
104	L2370494-02 2008SL	2	11	3	1	12/5/2023 3:10:22 PM
105	L2370494-05 2008SL	2	12	3	1	12/5/2023 3:15:03 PM
106	CCV	0	9	3	1	12/5/2023 3:19:43 PM
107	CCB	0	10	3	1	12/5/2023 3:24:26 PM

Alpha ICPMSQ Seq

12/6/2023 5:21:03 AM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
108	WG1859459-1 6020TL	2	13	3	1	12/5/2023 3:56:50 PM
109	WG1858756-2d10 2008SL	2	35	3	1	12/5/2023 4:07:44 PM
110	WG1859459-2d10 6020TL	2	14	3	1	12/5/2023 4:12:22 PM
111	WG1859459-3d10 6020TL	2	16	3	1	12/5/2023 4:17:02 PM
112	WG1859459-4d10 6020TL	2	17	3	1	12/5/2023 4:21:41 PM
113	WG1859459-5d10 6020TL	2	18	3	1	12/5/2023 4:26:20 PM
114	WG1859459-6d5 6020TL	2	19	3	1	12/5/2023 4:31:00 PM
115	I2370599-05 6020TL	2	15	3	1	12/5/2023 4:35:39 PM
116	I2370562-01 6020TL	2	20	3	1	12/5/2023 4:40:19 PM
117	I2370562-02 6020TL	2	21	3	1	12/5/2023 4:44:58 PM
118	CCV	0	9	3	1	12/5/2023 4:49:38 PM
119	CCB	0	10	3	1	12/5/2023 4:54:21 PM
120	I2370562-03 6020TL	2	22	3	1	12/5/2023 5:10:29 PM
121	I2370580-01 6020TL	2	23	3	1	12/5/2023 5:15:10 PM
122	I2370580-02 6020TL	2	24	3	1	12/5/2023 5:19:50 PM
123	I2370592-01 6020TL	2	25	3	1	12/5/2023 5:24:31 PM
124	I2370592-02 6020TL	2	26	3	1	12/5/2023 5:29:11 PM
125	I2370592-03 6020TL	2	27	3	1	12/5/2023 5:33:50 PM
126	I2370592-04 6020TL	2	28	3	1	12/5/2023 5:38:30 PM
127	I2370592-05 6020TL	2	29	3	1	12/5/2023 5:43:09 PM
128	I2370592-06 6020TL	2	30	3	1	12/5/2023 5:47:49 PM
129	I2370592-07 6020TL	2	31	3	1	12/5/2023 5:52:29 PM
130	CCV	0	9	3	1	12/5/2023 5:57:09 PM
131	CCB	0	10	3	1	12/5/2023 6:01:53 PM
132	CCV	0	9	3	1	12/5/2023 6:10:47 PM
133	CCB	0	10	3	1	12/5/2023 6:15:30 PM
134	WG1859476-1 6020SL	2	36	3	1	12/5/2023 6:22:32 PM
135	WG1859476-2d10 6020SL	2	37	3	1	12/5/2023 6:27:12 PM
136	WG1859476-3d10 6020SL	2	39	3	1	12/5/2023 6:31:53 PM
137	WG1859476-5d10 6020SL	2	41	3	1	12/5/2023 6:36:33 PM
138	WG1859476-4 6020SL	2	40	3	1	12/5/2023 6:41:13 PM
139	L2370760-01 6020SL	2	38	3	1	12/5/2023 6:45:54 PM
140	I2370599-04 6020TL	2	33	3	1	12/5/2023 6:50:34 PM
141	I2370592-08 6020TL	2	32	3	1	12/5/2023 6:55:14 PM
142	I2370599-07 6020TL	2	34	3	1	12/5/2023 6:59:54 PM
143	WG1859476-6d5 6020SL	2	42	3	1	12/5/2023 7:04:35 PM
144	CCV	0	9	3	1	12/5/2023 7:09:15 PM
145	CCB	0	10	3	1	12/5/2023 7:13:59 PM
146	L2371038-05 6020SL	2	50	3	1	12/5/2023 7:43:59 PM
147	L2370760-02 6020SL	2	43	3	1	12/5/2023 7:48:40 PM
148	L2370760-03 6020SL	2	44	3	1	12/5/2023 7:53:20 PM
149	L2370760-04 6020SL	2	45	3	1	12/5/2023 7:58:00 PM
150	L2371038-01 6020SL	2	46	3	1	12/5/2023 8:02:40 PM
151	L2371038-02 6020SL	2	47	3	1	12/5/2023 8:07:21 PM
152	L2371038-03 6020SL	2	48	3	1	12/5/2023 8:12:01 PM
153	L2371038-04 6020SL	2	49	3	1	12/5/2023 8:16:42 PM
154	L2371131-02 6020SL	2	51	3	1	12/5/2023 8:21:23 PM
155	xl2370562-03d10 6020TL	2	55	3	1	12/5/2023 8:26:04 PM
156	CCV	0	9	3	1	12/5/2023 8:30:45 PM
157	CCB	0	10	3	1	12/5/2023 8:35:28 PM
158	CCV	0	9	3	1	12/5/2023 8:54:26 PM
159	CCB	0	10	3	1	12/5/2023 8:59:09 PM
160	L2371131-04 6020SL	2	52	3	1	12/5/2023 9:08:44 PM
161	L2371131-06 6020SL	2	53	3	1	12/5/2023 9:13:24 PM
162	L2371131-13 6020SL	2	54	3	1	12/5/2023 9:18:05 PM
163	I2370562-03d10 6020TL	2	55	3	1	12/5/2023 9:22:46 PM

Alpha ICPMSQ Seq

12/6/2023 5:21:03 AM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
164	WG1859932-2d10 SPLP-6020T	2	57	3	1	12/5/2023 9:27:27 PM
165	WG1859932-3d10 SPLP-6020T	2	59	3	1	12/5/2023 9:32:07 PM
166	WG1859932-5d10 SPLP-6020T	3	1	3	1	12/5/2023 9:36:48 PM
167	WG1859932-4d10 SPLP-6020T	2	60	3	1	12/5/2023 9:41:29 PM
168	I2367708-05d10 SPLP-6020T	2	58	3	1	12/5/2023 9:46:11 PM
169	WG1859932-6d50 SPLP-6020T	3	2	3	1	12/5/2023 9:50:52 PM
170	CCV	0	9	3	1	12/5/2023 9:55:33 PM
171	CCB	0	10	3	1	12/5/2023 10:00:17 PM
172	WG1859932-1d10 SPLP-6020T	2	56	3	1	12/5/2023 10:05:01 PM
173	CCV	0	9	3	1	12/5/2023 10:09:42 PM
174	CCB	0	10	3	1	12/5/2023 10:14:26 PM
175	CCV	0	9	3	1	12/5/2023 10:19:10 PM
176	CCB	0	10	3	1	12/5/2023 10:23:54 PM
177	LLCCV	4	51	3	1	12/5/2023 10:28:38 PM
178	CCB	0	10	3	1	

Alpha ICPMSQ Seq

12/6/2023 1:28:20 PM

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	12/6/2023 5:08:54 AM
2	CAL LOT #M22-1040	0	1	3	1	12/6/2023 5:13:31 AM
3	Blank NTB ICPMSQ	4	49	3	1	12/6/2023 5:18:08 AM
4	0.2/20 Cal	0	2	3	1	12/6/2023 5:22:50 AM
5	1/100 Cal	0	3	3	1	12/6/2023 5:27:27 AM
6	10/1000 Cal	0	4	3	1	12/6/2023 5:32:05 AM
7	60/6000 Cal	0	5	3	1	12/6/2023 5:36:44 AM
8	120/12000 Cal	0	6	3	1	12/6/2023 5:41:23 AM
9	Sr 200ppb	4	55	3	1	12/6/2023 5:46:56 AM
10	ICV	0	7	3	1	12/6/2023 5:51:38 AM
11	ICB	0	10	3	1	12/6/2023 5:56:18 AM
12	LLCCV	4	51	3	1	12/6/2023 6:02:18 AM
13	ICSA	4	53	3	1	12/6/2023 6:07:00 AM
14	Rinse	0	1	3	1	12/6/2023 6:11:42 AM
15	CCV	0	9	3	1	12/6/2023 6:16:19 AM
16	CCB	0	10	3	1	12/6/2023 6:21:00 AM
17	L2369194-01 A2-6020T	1	1	3	1	12/6/2023 6:48:19 AM
18	L2369194-02 A2-6020T	1	2	3	1	12/6/2023 6:52:57 AM
19	L2369198-01 A2-6020T	1	3	3	1	12/6/2023 6:57:34 AM
20	L2369198-02 A2-6020T	1	4	3	1	12/6/2023 7:02:12 AM
21	L2369198-03 A2-6020T	1	5	3	1	12/6/2023 7:06:50 AM
22	L2369198-04 A2-6020T	1	6	3	1	12/6/2023 7:11:29 AM
23	L2369200-01 A2-6020T	1	7	3	1	12/6/2023 7:16:08 AM
24	L2369200-02 A2-6020T	1	8	3	1	12/6/2023 7:20:47 AM
25	L2369204-01 A2-6020T	1	9	3	1	12/6/2023 7:25:26 AM
26	L2369204-02 A2-6020T	1	10	3	1	12/6/2023 7:30:06 AM
27	CCV	0	9	3	1	12/6/2023 7:34:46 AM
28	CCB	0	10	3	1	12/6/2023 7:39:28 AM
29	L2369465-01 A2-6020T	1	11	3	1	12/6/2023 7:45:29 AM
30	L2369465-02 A2-6020T	1	12	3	1	12/6/2023 7:50:10 AM
31	L2369465-03 A2-6020T	1	13	3	1	12/6/2023 7:54:50 AM
32	L2369466-01 A2-6020T	1	14	3	1	12/6/2023 7:59:27 AM
33	CCV	0	9	3	1	12/6/2023 8:04:03 AM
34	CCB	0	10	3	1	12/6/2023 8:08:45 AM
35	CCV	0	9	3	1	12/6/2023 9:05:05 AM
36	CCB	0	10	3	1	12/6/2023 9:10:31 AM
37	WG1859880-1 6020SL	1	15	3	1	12/6/2023 9:15:31 AM
38	zWG1859880-2d10 6020SL	1	16	3	1	12/6/2023 9:20:08 AM
39	WG1859880-3d10 6020SL	1	18	3	1	12/6/2023 9:24:45 AM
40	WG1859880-4d10 6020SL	1	19	3	1	12/6/2023 9:29:23 AM
41	WG1859880-5d10 6020SL	1	20	3	1	12/6/2023 9:34:02 AM
42	WG1859880-6d5 6020SL	1	21	3	1	12/6/2023 9:38:40 AM
43	I2370783-04 6020SL	1	17	3	1	12/6/2023 9:45:15 AM
44	I2370783-01 6020SL	1	27	3	1	12/6/2023 9:49:53 AM
45	I2370783-02 6020SL	1	28	3	1	12/6/2023 9:54:30 AM
46	I2370783-03 6020SL	1	29	3	1	12/6/2023 9:59:07 AM
47	CCV	0	9	3	1	12/6/2023 10:03:45 AM
48	CCB	0	10	3	1	12/6/2023 10:08:27 AM
49	zWG1859880-2d10 6020SL	1	16	3	1	12/6/2023 10:21:53 AM
50	WG1859880-7d10 6020SL	1	23	3	1	12/6/2023 10:26:30 AM
51	WG1859880-2d5 6020SL	1	41	3	1	12/6/2023 10:34:39 AM

Alpha ICPMSQ Seq

12/6/2023 1:28:20 PM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	WG1859880-8d10 6020SL	1	24	3	1	12/6/2023 10:39:16 AM
53	WG1859880-9d10 6020SL	1	25	3	1	12/6/2023 10:43:55 AM
54	WG1859880-10d5 6020SL	1	26	3	1	12/6/2023 10:48:33 AM
55	I2371040-03 6020SL	1	22	3	1	12/6/2023 10:53:10 AM
56	I2370783-05 6020SL	1	30	3	1	12/6/2023 10:57:49 AM
57	I2370783-06 6020SL	1	31	3	1	12/6/2023 11:02:27 AM
58	I2370783-07 6020SL	1	32	3	1	12/6/2023 11:07:06 AM
59	CCV	0	9	3	1	12/6/2023 11:11:44 AM
60	CCB	0	10	3	1	12/6/2023 11:17:05 AM
61	I2370783-08 6020SL	1	33	3	1	12/6/2023 11:24:52 AM
62	I2370783-09 6020SL	1	34	3	1	12/6/2023 11:29:31 AM
63	I2370783-11 6020SL	1	35	3	1	12/6/2023 11:34:10 AM
64	I2371040-01 6020SL	1	36	3	1	12/6/2023 11:38:50 AM
65	I2371040-02 6020SL	1	37	3	1	12/6/2023 11:44:12 AM
66	I2371040-04 6020SL	1	38	3	1	12/6/2023 11:48:50 AM
67	I2371040-05 6020SL	1	39	3	1	12/6/2023 11:53:28 AM
68	I2371040-06 6020SL	1	40	3	1	12/6/2023 11:58:05 AM
69	CCV	0	9	3	1	12/6/2023 12:02:43 PM
70	CCB	0	10	3	1	12/6/2023 12:07:26 PM
71	CCV	0	9	3	1	12/6/2023 1:08:24 PM
72	CCB	0	10	3	1	12/6/2023 1:13:07 PM

Alpha ICPMSQ Seq

12/6/2023 7:50:38 PM

Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
1	Rinse	0	1	3	1	12/6/2023 1:30:36 PM
2	CAL LOT #M22-1040	0	1	3	1	12/6/2023 1:35:12 PM
3	Blank NTB ICPMSQ	4	49	3	1	12/6/2023 1:39:48 PM
4	0.2/20 Cal	0	2	3	1	12/6/2023 1:44:31 PM
5	1/100 Cal	0	3	3	1	12/6/2023 1:49:08 PM
6	10/1000 Cal	0	4	3	1	12/6/2023 1:53:46 PM
7	60/6000 Cal	0	5	3	1	12/6/2023 1:58:25 PM
8	120/12000 Cal	0	6	3	1	12/6/2023 2:03:04 PM
9	Sr 200ppb	4	55	3	1	12/6/2023 2:07:44 PM
10	ICV	0	7	3	1	12/6/2023 2:12:26 PM
11	ICB	0	10	3	1	12/6/2023 2:17:07 PM
12	wg1859957-1 6020TL	1	42	3	1	12/6/2023 2:26:17 PM
13	wg1859957-2d5 6020TL	1	43	3	1	12/6/2023 2:35:13 PM
14	wg1859957-3d10 6020TL	1	45	3	1	12/6/2023 2:39:50 PM
15	wg1859957-4d10 6020TL	1	46	3	1	12/6/2023 2:44:28 PM
16	wg1859957-5d10 6020TL	1	47	3	1	12/6/2023 2:49:07 PM
17	wg1859957-6d5 6020TL	1	48	3	1	12/6/2023 2:53:46 PM
18	L2371128-08 6020TL	1	44	3	1	12/6/2023 2:58:25 PM
19	L2370481-01 6020TL	1	49	3	1	12/6/2023 3:03:04 PM
20	L2370800-01 6020TL	1	50	3	1	12/6/2023 3:07:41 PM
21	L2370831-01 6020TL	1	51	3	1	12/6/2023 3:12:19 PM
22	CCV	0	9	3	1	12/6/2023 3:16:56 PM
23	CCB	0	10	3	1	12/6/2023 3:21:38 PM
24	L2371128-01 6020TL	1	52	3	1	12/6/2023 3:45:02 PM
25	L2371128-02 6020TL	1	53	3	1	12/6/2023 3:49:40 PM
26	plasma went out	1	54	3	1	12/6/2023 3:54:18 PM
27	CCV	0	9	3	1	12/6/2023 4:18:45 PM
28	CCB	0	10	3	1	12/6/2023 4:23:26 PM
29	CCV	0	9	3	1	12/6/2023 4:56:54 PM
30	CCB	0	10	3	1	12/6/2023 5:01:35 PM
31	L2371128-03 6020TL	1	54	3	1	12/6/2023 5:16:00 PM
32	L2371128-04 6020TL	1	55	3	1	12/6/2023 5:20:38 PM
33	L2371128-05 6020TL	1	56	3	1	12/6/2023 5:25:16 PM
34	L2371128-06 6020TL	1	57	3	1	12/6/2023 5:29:55 PM
35	L2371128-07 6020TL	1	58	3	1	12/6/2023 5:34:33 PM
36	L2371128-09 6020TL	1	59	3	1	12/6/2023 5:39:12 PM
37	L2371128-10 6020TL	1	60	3	1	12/6/2023 5:43:52 PM
38	L2371128-11 6020TL	2	1	3	1	12/6/2023 5:48:31 PM
39	L2371128-12 6020TL	2	2	3	1	12/6/2023 5:53:09 PM
40	L2371128-13 6020TL	2	3	3	1	12/6/2023 5:57:48 PM
41	CCV	0	9	3	1	12/6/2023 6:02:26 PM
42	CCB	0	10	3	1	12/6/2023 6:07:08 PM
43	CCV	0	9	3	1	12/6/2023 6:35:25 PM
44	CCB	0	10	3	1	12/6/2023 6:40:06 PM
45	L2371128-14 6020TL	2	4	3	1	12/6/2023 6:49:52 PM
46	L2371128-15 6020TL	2	5	3	1	12/6/2023 6:54:31 PM
47	L2371128-16 6020TL	2	6	3	1	12/6/2023 7:01:28 PM
48	L2371128-17 6020TL	2	7	3	1	12/6/2023 7:06:06 PM
49	zwg1859957-2d10 6020TL	2	11	3	1	12/6/2023 7:10:45 PM
50	L2370481-01d10 6020TL	2	8	3	1	12/6/2023 7:16:40 PM
51	L2371128-03d10 6020TL	2	9	3	1	12/6/2023 7:21:19 PM

Alpha ICPMSQ Seq

12/6/2023 7:50:38 PM

Index:	Label:	Rack	Vial	Main Runs:	Survey Runs:	Start Time:
52	L2371128-11D10 6020TL	2	10	3	1	12/6/2023 7:25:58 PM
53	L2371128-15d10 6020TL	2	12	3	1	12/6/2023 7:30:37 PM
54	L2371128-16d10 6020TL	2	13	3	1	12/6/2023 7:35:17 PM
55	CCV	0	9	3	1	12/6/2023 7:39:56 PM
56	CCB	0	10	3	1	12/6/2023 7:44:38 PM
57	Unknown	2	14	3	1	
58	Unknown	2	15	3	1	
59	Unknown	2	16	3	1	
60	Unknown	2	17	3	1	
61	Unknown	2	18	3	1	
62	Unknown	2	19	3	1	
63	Unknown	2	20	3	1	
64	Unknown	2	21	3	1	
65	Unknown	1	41	3	1	
66	Unknown	1	42	3	1	
67	Unknown	1	43	3	1	
68	Unknown	1	44	3	1	
69	Unknown	1	45	3	1	
70	Unknown	1	46	3	1	
71	Unknown	1	47	3	1	
72	Unknown	1	48	3	1	
73	Unknown	1	49	3	1	
74	Unknown	1	50	3	1	
75	CCV	0	9	3	1	
76	CCB	0	10	3	1	
77	Unknown	1	51	3	1	
78	Unknown	1	52	3	1	
79	Unknown	1	53	3	1	
80	Unknown	1	54	3	1	
81	Unknown	1	55	3	1	
82	Unknown	1	56	3	1	
83	Unknown	1	57	3	1	
84	Unknown	1	58	3	1	
85	Unknown	1	59	3	1	
86	Unknown	1	60	3	1	
87	CCV	0	9	3	1	
88	CCB	0	10	3	1	
89	CCV	0	9	3	1	
90	CCB	0	10	3	1	
91	LLCCV	4	51	3	1	
92	CCB	0	10	3	1	

METALS ELN REPORT

Workgroup: WG1859770

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO233450 91738HCR	1:1 HCl	tHCL234328 0911HCR	METALS	METSPIKE2	IPS, FPS, MIX	METPSMS	IPS, FPS, MIX	326, 140

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2370783-01 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2370783-02 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2370783-03 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2370783-04 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2370783-05 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2370783-06 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2370783-07 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2370783-08 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2370783-09 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2370783-11 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2371040-01 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2371040-02 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2371040-03 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2371040-04 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	

Reported: 07-DEC-23 02:53 PM

METALS ELN REPORT

Workgroup: WG1859770

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2371040-05 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2371040-06 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2371255-01 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
L2371255-02 WATER	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
WG1859770-1 BLANK	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	FM2348281146 AJT
WG1859770-2 LCS	12/05/23 07:40	Michelle Mattson	50	<2	0.5	12/05/23 07:40	10	94.0	12/05/23 10:40	50	ELN: JDH
WG1859770-3 MS	12/05/23 07:40	Michelle Mattson	50	<2	0.5	12/05/23 07:40	10	94.0	12/05/23 10:40	50	
WG1859770-4 MSD	12/05/23 07:40	Michelle Mattson	50	<2	0.5	12/05/23 07:40	10	94.0	12/05/23 10:40	50	
WG1859770-5 PS	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
WG1859770-6 SERDIL	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
WG1859770-7 MS	12/05/23 07:40	Michelle Mattson	50	<2	0.5	12/05/23 07:40	10	94.0	12/05/23 10:40	50	
WG1859770-8 MSD	12/05/23 07:40	Michelle Mattson	50	<2	0.5	12/05/23 07:40	10	94.0	12/05/23 10:40	50	
WG1859770-9 PS	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	
WG1859770-10 SERDIL	12/05/23 07:40	Michelle Mattson	50	<2		12/05/23 07:40	10	94.0	12/05/23 10:40	50	IPS2348280120CLH

Reported: 07-DEC-23 02:53 PM

METALS ELN REPORT

Workgroup: WG1859770

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

METALS ELN REPORT

Workgroup: WG1859880

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO233500 51015MMM	1:1 HCl	tHCL234328 0911HCR	METALS	METSPIKE2	IPS, FPS, MIX	METPSMS	IPS, FPS, MIX	140,326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2370783-01 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER H
L2370783-02 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER H
L2370783-03 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER H
L2370783-04 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER H
L2370783-05 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER H
L2370783-06 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER H
L2370783-07 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER H
L2370783-08 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER H
L2370783-09 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER D
L2370783-11 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER D
L2371040-01 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER H
L2371040-02 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER H
L2371040-03 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER H
L2371040-04 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER H

Reported: 07-DEC-23 02:53 PM

METALS ELN REPORT

Workgroup: WG1859880

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol ml	Comments
L2371040-05 WATER	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER H
L2371040-06 WATER	12/06/23 02:00	Brandon Siah	12-02-23 08:21	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	CONTAINER X
WG1859880-1 BLANK	12/06/23 02:00	Brandon Siah	12/02/23 08:21	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	FM2349300612 MMM
WG1859880-2 LCS	12/06/23 02:00	Brandon Siah	NA	50	<2	.5	12/06/23 02:00	10	95	12/06/23 05:00	50	
WG1859880-3 MS	12/06/23 02:00	Brandon Siah	NA	50	<2	.5	12/06/23 02:00	10	95	12/06/23 05:00	50	ELN check: CLH
WG1859880-4 MSD	12/06/23 02:00	Brandon Siah	NA	50	<2	.5	12/06/23 02:00	10	95	12/06/23 05:00	50	
WG1859880-5 PS	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	
WG1859880-6 SERDIL	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	
WG1859880-7 MS	12/06/23 02:00	Brandon Siah	NA	50	<2	.5	12/06/23 02:00	10	95	12/06/23 05:00	50	
WG1859880-8 MSD	12/06/23 02:00	Brandon Siah	NA	50	<2	.5	12/06/23 02:00	10	95	12/06/23 05:00	50	
WG1859880-9 PS	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	
WG1859880-10 SERDIL	12/06/23 02:00	Brandon Siah	NA	50	<2		12/06/23 02:00	10	95	12/06/23 05:00	50	IPS2348280120CLH

Reported: 07-DEC-23 02:53 PM

METALS ELN REPORT

Workgroup: WG1859880

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Reported: 07-DEC-23 02:53 PM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 00:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/06/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 00:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/06/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 00:16
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/06/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 23:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/06/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 00:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/06/23

			mg/l			
CAS NO.	**Parameter**		**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved		ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 00:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/06/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 00:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/06/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 00:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/06/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-09	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 00:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/06/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-11	**Date Collected**	: 11/29/23 08:45
Client ID	: EB	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 00:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/06/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859882-1	**Date Collected**	: NA
Client ID	: WG1859882-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/06/23 23:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/06/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 12:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 12:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 12:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 12:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 12:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:08
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-09	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-11	**Date Collected**	: 11/29/23 08:45
Client ID	: EB	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1
METALS

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859771-1	**Date Collected**	: NA
Client ID	: WG1859771-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/06/23 12:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 1,7470A	**Analyst**	: GMG
Lab File ID	: WG1860302.pdf	**Instrument ID**	: NIC1
Sample Amount	: 25ml	**%Solids**	: N/A
Digestion Method	: EPA 7470A	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1771626-1			R1771626-3			R1771626-5		R1771626-7	
Date Analyzed :	12/06/23 07:17			12/06/23 09:37			12/06/23 10:29		12/06/23 11:09	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0030	99	0.0050	0.00480	97	0.00480	97	0.00480	97

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1771626-9			R1771626-11		R1771626-13	
Date Analyzed :				12/06/23 12:35			12/06/23 13:14		12/06/23 13:55	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00490	97	0.00490	97	0.00480	96

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1771626-15			R1771626-17		R1771626-19	
Date Analyzed :				12/06/23 14:32			12/06/23 15:16		12/06/23 15:33	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00480	96	0.00480	96	0.00480	96

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1771626-21			R1771626-23		R1771626-25	
Date Analyzed :				12/06/23 16:56			12/06/23 17:41		12/06/23 18:38	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00470	95	0.00470	94	0.00470	95

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1771626-27			R1771626-29		R1771626-31	
Date Analyzed :				12/06/23 23:30			12/07/23 00:10		12/07/23 00:49	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00470	95	0.00480	97	0.00470	95

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1771626-1			R1771626-3			R1771626-5		R1771626-7	
Date Analyzed :	12/06/23 07:17			12/06/23 09:37			12/06/23 10:29		12/06/23 11:09	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.00300	0.0030	99	0.0050	0.00480	97	0.00480	97	0.00480	97

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1771626-9			R1771626-11		R1771626-13	
Date Analyzed :				12/06/23 12:35			12/06/23 13:14		12/06/23 13:55	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0050	0.00490	97	0.00490	97	0.00480	96

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1771626-2		R1771626-4		R1771626-6		R1771626-8		WG1859882-1	
Date Analyzed :	12/06/23 07:22		12/06/23 09:46		12/06/23 10:32		12/06/23 11:12		12/06/23 23:37	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000915	U	0.0000915	U	0.0000915	U	0.0000915	U	0.00009	U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1771626-10		R1771626-12		R1771626-14			
Date Analyzed :			12/06/23 12:38		12/06/23 13:18		12/06/23 13:58			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1771626-16		R1771626-18		R1771626-20			
Date Analyzed :			12/06/23 14:35		12/06/23 15:19		12/06/23 15:54			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1771626-22		R1771626-24		R1771626-26			
Date Analyzed :			12/06/23 17:05		12/06/23 18:02		12/06/23 18:51			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1771626-28		R1771626-30		R1771626-32			
Date Analyzed :			12/06/23 23:33		12/07/23 00:13		12/07/23 00:53			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1771626-2		R1771626-4		R1771626-6		R1771626-8		WG1859771-1	
Date Analyzed :	12/06/23 07:22		12/06/23 09:46		12/06/23 10:32		12/06/23 11:12		12/06/23 12:15	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000915	U	0.0000915	U	0.0000915	U	0.0000915	U	0.00009	U

Form 3
Blanks

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1771626-10		R1771626-12		R1771626-14			
Date Analyzed :			12/06/23 12:38		12/06/23 13:18		12/06/23 13:58			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.0000915	U	0.0000915	U	0.0000915	U		

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2370783-04		
Matrix Spike	: WG1859882-3	**MS Analysis Date**	: 12/06/23 23:47
Matrix Spike Dup	: WG1859882-4	**MSD Analysis Date**	: 12/06/23 23:50

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Dissolved	ND	0.005	0.00432	86	0.005	0.00429	86	1	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2371040-03		
Matrix Spike	: WG1859882-5	**MS Analysis Date**	: 12/06/23 23:57
Matrix Spike Dup	: WG1859882-6	**MSD Analysis Date**	: 12/07/23 00:00

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Dissolved	ND	0.005	0.00447	89	0.005	0.00443	89	1	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-4D	**Matrix**	: WATER
Lab Sample ID	: L2370783-04		
Matrix Spike	: WG1859771-3	**MS Analysis Date**	: 12/06/23 12:25
Matrix Spike Dup	: WG1859771-4	**MSD Analysis Date**	: 12/06/23 12:28

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	ND	0.005	0.00486	97	0.005	0.00476	95	2	75-125	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2371040-03		
Matrix Spike	: WG1859771-5	**MS Analysis Date**	: 12/06/23 12:41
Matrix Spike Dup	: WG1859771-6	**MSD Analysis Date**	: 12/06/23 12:45

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Mercury, Total	ND	0.005	0.00466	93	0.005	0.00505	101	8	75-125	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1859882-2	**LCS Analysis Date**	: 12/06/23 23:40
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Mercury, Dissolved	0.00100	0.000880	88.					80-120	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1859771-2	**LCS Analysis Date**	: 12/06/23 12:18
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Mercury, Total	0.00100	0.000940	94.					80-120	20

Form 12
Preparation Log

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix	: WATER	**Prep Method**	: EPA 7470A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2370783-01	12/06/23 03:00	-	25
L2370783-02	12/06/23 03:00	-	25
L2370783-03	12/06/23 03:00	-	25
L2370783-04	12/06/23 03:00	-	25
L2370783-05	12/06/23 03:00	-	25
L2370783-06	12/06/23 03:00	-	25
L2370783-07	12/06/23 03:00	-	25
L2370783-08	12/06/23 03:00	-	25
L2370783-09	12/06/23 03:00	-	25
L2370783-11	12/06/23 03:00	-	25
WG1859882-1	12/06/23 03:00	-	25
WG1859882-2	12/06/23 03:00	-	25
WG1859882-3	12/06/23 03:00	-	25
WG1859882-4	12/06/23 03:00	-	25
WG1859882-5	12/06/23 03:00	-	25
WG1859882-6	12/06/23 03:00	-	25

Form 12
Preparation Log

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Matrix	: WATER	**Prep Method**	: EPA 7470A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2370783-01	12/05/23 08:42	-	25
L2370783-02	12/05/23 08:42	-	25
L2370783-03	12/05/23 08:42	-	25
L2370783-04	12/05/23 08:42	-	25
L2370783-05	12/05/23 08:42	-	25
L2370783-06	12/05/23 08:42	-	25
L2370783-07	12/05/23 08:42	-	25
L2370783-08	12/05/23 08:42	-	25
L2370783-09	12/05/23 08:42	-	25
L2370783-11	12/05/23 08:42	-	25
WG1859771-1	12/05/23 08:42	-	25
WG1859771-2	12/05/23 08:42	-	25
WG1859771-3	12/05/23 08:42	-	25
WG1859771-4	12/05/23 08:42	-	25
WG1859771-5	12/05/23 08:42	-	25
WG1859771-6	12/05/23 08:42	-	25

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Analysis Method**	: 1,7470A
Start Date	: 12/06/23 07:17	**End Date**	: 12/07/23 00:53

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1771626-1 ICV	1	07:17:26	X
R1771626-2 ICB	1	07:22:57	X
R1771626-3 CCV	1	09:37:58	X
R1771626-4 CCB	1	09:46:08	X
R1771626-5 CCV	1	10:29:24	X
R1771626-6 CCB	1	10:32:43	X
R1771626-7 CCV	1	11:09:01	X
R1771626-8 CCB	1	11:12:38	X
R1771626-9 CCV	1	12:35:14	X
R1771626-10 CCB	1	12:38:32	X
R1771626-11 CCV	1	13:14:46	X
R1771626-12 CCB	1	13:18:52	X
R1771626-13 CCV	1	13:55:07	X
R1771626-14 CCB	1	13:58:52	X
R1771626-15 CCV	1	14:32:07	X
R1771626-16 CCB	1	14:35:26	X
R1771626-17 CCV	1	15:16:32	X
R1771626-18 CCB	1	15:19:51	X
R1771626-19 CCV	1	15:33:08	X
R1771626-20 CCB	1	15:54:34	X
R1771626-21 CCV	1	16:56:59	X
R1771626-22 CCB	1	17:05:29	X
R1771626-23 CCV	1	17:41:50	X
R1771626-24 CCB	1	18:02:25	X
R1771626-25 CCV	1	18:38:42	X
R1771626-26 CCB	1	18:51:36	X
R1771626-27 CCV	1	23:30:26	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Analysis Method**	: 1,7470A
Start Date	: 12/06/23 07:17	**End Date**	: 12/07/23 00:53

Sample Number	Dilution Factor	Analysis Time	Mercury, Dissolved
R1771626-28 CCB	1	23:33:46	X
WG1859882-1 BLANK	1	23:37:05	X
WG1859882-2 LCS	1	23:40:25	X
L2370783-04	1	23:43:45	X
WG1859882-3 MS	1	23:47:03	X
WG1859882-4 MSD	1	23:50:23	X
WG1859882-5 MS	1	23:57:01	X
WG1859882-6 MSD	1	00:00:21	X
L2370783-01	1	00:03:41	X
L2370783-02	1	00:06:59	X
R1771626-29 CCV	1	00:10:17	X
R1771626-30 CCB	1	00:13:35	X
L2370783-03	1	00:16:54	X
L2370783-05	1	00:20:12	X
L2370783-06	1	00:23:30	X
L2370783-07	1	00:26:49	X
L2370783-08	1	00:30:07	X
L2370783-09	1	00:33:23	X
L2370783-11	1	00:36:42	X
R1771626-31 CCV	1	00:49:54	X
R1771626-32 CCB	1	00:53:10	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Analysis Method**	: 1,7470A
Start Date	: 12/06/23 07:17	**End Date**	: 12/06/23 13:58

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1771626-1 ICV	1	07:17:26	X
R1771626-2 ICB	1	07:22:57	X
R1771626-3 CCV	1	09:37:58	X
R1771626-4 CCB	1	09:46:08	X
R1771626-5 CCV	1	10:29:24	X
R1771626-6 CCB	1	10:32:43	X
R1771626-7 CCV	1	11:09:01	X
R1771626-8 CCB	1	11:12:38	X
WG1859771-1 BLANK	1	12:15:28	X
WG1859771-2 LCS	1	12:18:46	X
L2370783-04	1	12:22:04	X
WG1859771-3 MS	1	12:25:22	X
WG1859771-4 MSD	1	12:28:40	X
R1771626-9 CCV	1	12:35:14	X
R1771626-10 CCB	1	12:38:32	X
WG1859771-5 MS	1	12:41:50	X
WG1859771-6 MSD	1	12:45:08	X
L2370783-01	1	12:48:26	X
L2370783-02	1	12:51:44	X
L2370783-03	1	12:55:01	X
L2370783-05	1	12:58:19	X
L2370783-06	1	13:01:37	X
L2370783-07	1	13:04:54	X
L2370783-08	1	13:08:12	X
L2370783-09	1	13:11:30	X
R1771626-11 CCV	1	13:14:46	X
R1771626-12 CCB	1	13:18:52	X

Form 13
Analysis Run Log

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Instrument ID	: NIC1	**Analysis Method**	: 1,7470A
Start Date	: 12/06/23 07:17	**End Date**	: 12/06/23 13:58

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
L2370783-11	1	13:22:10	X
R1771626-13 CCV	1	13:55:07	X
R1771626-14 CCB	1	13:58:52	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9836-1
Page: 1

METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserv

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

Title :
Date : 12/6/2023
Name :

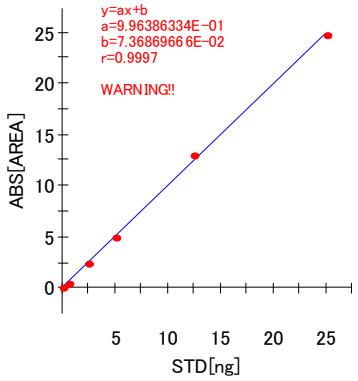
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0638	-0.0099	-	12/06/2023 06:36	GMG,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.5315	0.4595	8.1	12/06/2023 06:39	GMG,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.4960	2.4311	2.8	12/06/2023 06:42	GMG,NIC1
4	2.000	2.500	2.500	2.500	5.000	4.9220	4.8659	2.7	12/06/2023 06:46	GMG,NIC1
5	5.000	2.500	2.500	2.500	12.500	12.9648	12.9379	3.5	12/06/2023 06:49	GMG,NIC1
6	10.000	2.500	2.500	2.500	25.000	24.7996	24.8156	0.7	12/06/2023 06:52	GMG,NIC1

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	XICV	2.500	2.500	2.500	7.1271	7.0790	2.832	-	12/06/2023 07:11	GMG,NIC1
2	ICV	2.500	2.500	2.500	7.4766	7.4298	2.972	-	12/06/2023 07:17	GMG,NIC1
3	ICB	2.500	2.500	2.500	0.0587	-0.0150	-0.006	-	12/06/2023 07:22	GMG,NIC1
4	L2200086-37 WG1860159	2.500	2.500	2.500	0.5396	0.4676	0.187	-	12/06/2023 07:26	GMG,NIC1
5	WG1860159-1 WG1860159	2.500	2.500	2.500	0.0748	0.0011	0.000	-	12/06/2023 09:08	GMG,NIC1
6	WG1860159-2 WG1860159	2.500	2.500	2.500	2.2614	2.1956	0.878	-	12/06/2023 09:11	GMG,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	L2371604-01 WG1860159	2.500	2.500	2.500	0.5071	0.4350	0.174	-	12/06/2023 09:14	GMG,NIC1
8	WG1860159-3 WG1860159	2.500	2.500	2.500	11.9533	11.9227	4.769	-	12/06/2023 09:18	GMG,NIC1
9	WG1860159-4 WG1860159	2.500	2.500	2.500	0.5511	0.4791	0.192	-	12/06/2023 09:21	GMG,NIC1
10	WG1859933-1 WG1859933	2.500	2.500	2.500	0.0845	0.0109	0.004	-	12/06/2023 09:24	GMG,NIC1
11	WG1859933-2 WG1859933	2.500	2.500	2.500	2.5676	2.5030	1.001	-	12/06/2023 09:27	GMG,NIC1
12	I2367708-05 WG1859933	2.500	2.500	2.500	13.3119	13.2862	5.314	-	12/06/2023 09:31	GMG,NIC1
13	XWG1859933-3 WG1859933	2.500	2.500	2.500	25.8962	25.9162	10.366	-	12/06/2023 09:34	GMG,NIC1
14	Check STD(5ug/L)	2.500	2.500	2.500	12.1312	12.1012	4.840	96.8	12/06/2023 09:37	GMG,NIC1
15	Check Blank	2.500	2.500	2.500	0.0768	0.0031	0.001	-	12/06/2023 09:46	GMG,NIC1
16	WG1859933-4 WG1859933	2.500	2.500	2.500	13.6521	13.6277	5.451	-	12/06/2023 09:49	GMG,NIC1
17	WG1859933-3D2 WG1859933	2.500	2.500	2.500	12.8312	12.8038	5.122	-	12/06/2023 09:52	GMG,NIC1
18	WG1858271-1 WG1858271	2.500	2.500	2.500	0.3192	0.2464	0.099	-	12/06/2023 10:03	GMG,NIC1
19	WG1858271-2 WG1858271	2.500	2.500	2.500	2.5975	2.5330	1.013	-	12/06/2023 10:06	GMG,NIC1
20	L2370027-03 WG1858271	2.500	2.500	2.500	0.2598	0.1868	0.075	-	12/06/2023 10:09	GMG,NIC1
21	WG1858271-3 WG1858271	2.500	2.500	2.500	11.5858	11.5539	4.622	-	12/06/2023 10:12	GMG,NIC1
22	WG1858271-4 WG1858271	2.500	2.500	2.500	0.6809	0.6094	0.244	-	12/06/2023 10:16	GMG,NIC1
23	L2370345-01 WG1858271	2.500	2.500	2.500	0.6030	0.5312	0.212	-	12/06/2023 10:19	GMG,NIC1
24	L2370027-04 WG1858271	2.500	2.500	2.500	0.5126	0.4405	0.176	-	12/06/2023 10:22	GMG,NIC1
25	WG1858271-5 WG1858271	2.500	2.500	2.500	11.4901	11.4578	4.583	-	12/06/2023 10:26	GMG,NIC1
26	Check STD(5ug/L)	2.500	2.500	2.500	12.1078	12.0778	4.831	96.6	12/06/2023 10:29	GMG,NIC1
27	Check Blank	2.500	2.500	2.500	0.0551	-0.0187	-0.007	-	12/06/2023 10:32	GMG,NIC1
28	WG1858271-6 WG1858271	2.500	2.500	2.500	0.3860	0.3134	0.125	-	12/06/2023 10:36	GMG,NIC1
29	XL2370027-03 WG1858271	2.500	2.500	2.500	0.2751	0.2021	0.081	-	12/06/2023 10:39	GMG,NIC1
30	XWG1858271-4 WG1858271	2.500	2.500	2.500	0.7396	0.6683	0.267	-	12/06/2023 10:42	GMG,NIC1
31	L2370027-01 WG1858271	2.500	2.500	2.500	0.3942	0.3217	0.129	-	12/06/2023 10:45	GMG,NIC1
32	L2370027-02 WG1858271	2.500	2.500	2.500	0.3450	0.2723	0.109	-	12/06/2023 10:49	GMG,NIC1
33	L2370027-05 WG1858271	2.500	2.500	2.500	0.3190	0.2462	0.098	-	12/06/2023 10:52	GMG,NIC1
34	L2370027-06 WG1858271	2.500	2.500	2.500	0.2649	0.1919	0.077	-	12/06/2023 10:55	GMG,NIC1
35	L2370027-08 WG1858271	2.500	2.500	2.500	0.2426	0.1695	0.068	-	12/06/2023 10:59	GMG,NIC1
36	L2370027-09 WG1858271	2.500	2.500	2.500	0.2910	0.2181	0.087	-	12/06/2023 11:02	GMG,NIC1
37	L2370027-10 WG1858271	2.500	2.500	2.500	0.3420	0.2693	0.108	-	12/06/2023 11:05	GMG,NIC1
38	Check STD(5ug/L)	2.500	2.500	2.500	12.1213	12.0913	4.837	96.7	12/06/2023 11:09	GMG,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	Check Blank	2.500	2.500	2.500	0.0578	-0.0159	-0.006	-	12/06/2023 11:12	GMG,NIC1
40	L2370027-11 WG1858271	2.500	2.500	2.500	0.3094	0.2366	0.095	-	12/06/2023 11:15	GMG,NIC1
41	L2370027-12 WG1858271	2.500	2.500	2.500	0.2902	0.2173	0.087	-	12/06/2023 11:19	GMG,NIC1
42	L2369989-01 WG1858271	2.500	2.500	2.500	0.3799	0.3073	0.123	-	12/06/2023 11:22	GMG,NIC1
43	L2369992-01 WG1858271	2.500	2.500	2.500	0.4167	0.3443	0.138	-	12/06/2023 11:25	GMG,NIC1
44	WG1859771-1 WG1859771	2.500	2.500	2.500	0.0894	0.0158	0.006	-	12/06/2023 12:15	GMG,NIC1
45	WG1859771-2 WG1859771	2.500	2.500	2.500	2.4220	2.3568	0.943	-	12/06/2023 12:18	GMG,NIC1
46	L2370783-04 WG1859771	2.500	2.500	2.500	0.0975	0.0239	0.010	-	12/06/2023 12:22	GMG,NIC1
47	WG1859771-3 WG1859771	2.500	2.500	2.500	12.1916	12.1619	4.865	-	12/06/2023 12:25	GMG,NIC1
48	WG1859771-4 WG1859771	2.500	2.500	2.500	11.9324	11.9017	4.761	-	12/06/2023 12:28	GMG,NIC1
49	L2371040-03 WG1859771	2.500	2.500	2.500	0.1013	0.0277	0.011	-	12/06/2023 12:31	GMG,NIC1
50	Check STD(5ug/L)	2.500	2.500	2.500	12.1556	12.1257	4.850	97.0	12/06/2023 12:35	GMG,NIC1
51	Check Blank	2.500	2.500	2.500	0.0515	-0.0223	-0.009	-	12/06/2023 12:38	GMG,NIC1
52	WG1859771-5 WG1859771	2.500	2.500	2.500	11.6941	11.6626	4.665	-	12/06/2023 12:41	GMG,NIC1
53	WG1859771-6 WG1859771	2.500	2.500	2.500	12.6539	12.6258	5.050	-	12/06/2023 12:45	GMG,NIC1
54	L2370783-01 WG1859771	2.500	2.500	2.500	0.0601	-0.0136	-0.005	-	12/06/2023 12:48	GMG,NIC1
55	L2370783-02 WG1859771	2.500	2.500	2.500	0.0514	-0.0224	-0.009	-	12/06/2023 12:51	GMG,NIC1
56	L2370783-03 WG1859771	2.500	2.500	2.500	0.0589	-0.0148	-0.006	-	12/06/2023 12:55	GMG,NIC1
57	L2370783-05 WG1859771	2.500	2.500	2.500	0.0004	-0.0736	-0.029	-	12/06/2023 12:58	GMG,NIC1
58	L2370783-06 WG1859771	2.500	2.500	2.500	0.0908	0.0172	0.007	-	12/06/2023 13:01	GMG,NIC1
59	L2370783-07 WG1859771	2.500	2.500	2.500	0.1166	0.0431	0.017	-	12/06/2023 13:04	GMG,NIC1
60	L2370783-08 WG1859771	2.500	2.500	2.500	0.1134	0.0399	0.016	-	12/06/2023 13:08	GMG,NIC1
61	L2370783-09 WG1859771	2.500	2.500	2.500	0.0976	0.0240	0.010	-	12/06/2023 13:11	GMG,NIC1
62	Check STD(5ug/L)	2.500	2.500	2.500	12.1664	12.1366	4.855	97.1	12/06/2023 13:14	GMG,NIC1
63	Check Blank	2.500	2.500	2.500	0.0531	-0.0207	-0.008	-	12/06/2023 13:18	GMG,NIC1
64	L2370783-11 WG1859771	2.500	2.500	2.500	0.0686	-0.0051	-0.002	-	12/06/2023 13:22	GMG,NIC1
65	L2371040-01 WG1859771	2.500	2.500	2.500	0.0921	0.0185	0.007	-	12/06/2023 13:25	GMG,NIC1
66	L2371040-02 WG1859771	2.500	2.500	2.500	0.1731	0.0998	0.040	-	12/06/2023 13:28	GMG,NIC1
67	L2371040-04 WG1859771	2.500	2.500	2.500	0.1940	0.1207	0.048	-	12/06/2023 13:32	GMG,NIC1
68	L2371040-05 WG1859771	2.500	2.500	2.500	0.1691	0.0958	0.038	-	12/06/2023 13:35	GMG,NIC1
69	L2371040-06 WG1859771	2.500	2.500	2.500	0.1292	0.0557	0.022	-	12/06/2023 13:38	GMG,NIC1
70	WG1860352-1 WG1860352	2.500	2.500	2.500	0.0555	-0.0183	-0.007	-	12/06/2023 13:41	GMG,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	WG1860352-2 WG1860352	2.500	2.500	2.500	2.4352	2.3701	0.948	-	12/06/2023 13:45	GMG,NIC1
72	L2369078-01 WG1860352	2.500	2.500	2.500	3.6406	3.5798	1.432	-	12/06/2023 13:48	GMG,NIC1
73	WG1860352-3 WG1860352	2.500	2.500	2.500	15.5241	15.5064	6.203	-	12/06/2023 13:51	GMG,NIC1
74	Check STD(5ug/L)	2.500	2.500	2.500	12.0743	12.0441	4.818	96.4	12/06/2023 13:55	GMG,NIC1
75	Check Blank	2.500	2.500	2.500	0.0483	-0.0255	-0.010	-	12/06/2023 13:58	GMG,NIC1
76	WG1860352-4 WG1860352	2.500	2.500	2.500	3.6426	3.5819	1.433	-	12/06/2023 14:02	GMG,NIC1
77	WG1858758-1 WG1858758	2.500	2.500	2.500	0.0364	-0.0374	-0.015	-	12/06/2023 14:05	GMG,NIC1
78	WG1858758-2 WG1858758	2.500	2.500	2.500	2.5889	2.5243	1.010	-	12/06/2023 14:08	GMG,NIC1
79	L2370494-03 WG1858758	2.500	2.500	2.500	0.4573	0.3850	0.154	-	12/06/2023 14:12	GMG,NIC1
80	WG1858758-3 WG1858758	2.500	2.500	2.500	12.5956	12.5673	5.027	-	12/06/2023 14:15	GMG,NIC1
81	WG1858758-4 WG1858758	2.500	2.500	2.500	12.9290	12.9019	5.161	-	12/06/2023 14:18	GMG,NIC1
82	L2370494-01 WG1858758	2.500	2.500	2.500	0.2722	0.1992	0.080	-	12/06/2023 14:22	GMG,NIC1
83	L2370494-02 WG1858758	2.500	2.500	2.500	0.2351	0.1620	0.065	-	12/06/2023 14:25	GMG,NIC1
84	L2370494-05 WG1858758	2.500	2.500	2.500	0.1957	0.1225	0.049	-	12/06/2023 14:28	GMG,NIC1
85	Check STD(5ug/L)	2.500	2.500	2.500	12.0556	12.0254	4.810	96.2	12/06/2023 14:32	GMG,NIC1
86	Check Blank	2.500	2.500	2.500	0.0490	-0.0248	-0.010	-	12/06/2023 14:35	GMG,NIC1
87	WG1860309-1 WG1860309	2.500	2.500	2.500	0.0406	-0.0332	-0.013	-	12/06/2023 14:59	GMG,NIC1
88	WG1860309-2 WG1860309	2.500	2.500	2.500	2.3437	2.2782	0.911	-	12/06/2023 15:03	GMG,NIC1
89	L2371107-02 WG1860309	2.500	2.500	2.500	0.0465	-0.0273	-0.011	-	12/06/2023 15:06	GMG,NIC1
90	WG1860309-3 WG1860309	2.500	2.500	2.500	11.8911	11.8603	4.744	-	12/06/2023 15:09	GMG,NIC1
91	WG1860309-4 WG1860309	2.500	2.500	2.500	0.0446	-0.0292	-0.012	-	12/06/2023 15:13	GMG,NIC1
92	Check STD(5ug/L)	2.500	2.500	2.500	12.0674	12.0372	4.815	96.3	12/06/2023 15:16	GMG,NIC1
93	Check Blank	2.500	2.500	2.500	0.0492	-0.0246	-0.010	-	12/06/2023 15:19	GMG,NIC1
94	WG1858663-1 WG1858663	2.500	2.500	2.500	0.8919	0.8212	0.328	-	12/06/2023 15:23	GMG,NIC1
95	WG1858663-2 WG1858663	2.500	2.500	2.500	2.8171	2.7534	1.101	-	12/06/2023 15:26	GMG,NIC1
96	I2370780-07 WG1858663	2.500	2.500	2.500	0.5269	0.4549	0.182	-	12/06/2023 15:29	GMG,NIC1
97	Check STD(5ug/L)	2.500	2.500	2.500	12.0842	12.0541	4.822	96.4	12/06/2023 15:33	GMG,NIC1
98	Check Blank	2.500	2.500	2.500	0.0471	-0.0267	-0.011	-	12/06/2023 15:54	GMG,NIC1
99	WG1858663-3 WG1858663	2.500	2.500	2.500	13.2398	13.2139	5.286	-	12/06/2023 15:57	GMG,NIC1
100	WG1858663-4 WG1858663	2.500	2.500	2.500	11.6590	11.6273	4.651	-	12/06/2023 16:01	GMG,NIC1
101	I2370774-03 WG1858663	2.500	2.500	2.500	0.4759	0.4037	0.161	-	12/06/2023 16:04	GMG,NIC1
102	I2370780-01 WG1858663	2.500	2.500	2.500	0.2070	0.1338	0.054	-	12/06/2023 16:07	GMG,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	I2370780-02 WG1858663	2.500	2.500	2.500	0.2376	0.1645	0.066	-	12/06/2023 16:11	GMG,NIC1
104	I2370780-03 WG1858663	2.500	2.500	2.500	0.2830	0.2101	0.084	-	12/06/2023 16:14	GMG,NIC1
105	I2370780-04 WG1858663	2.500	2.500	2.500	0.2854	0.2125	0.085	-	12/06/2023 16:17	GMG,NIC1
106	I2370780-05 WG1858663	2.500	2.500	2.500	0.3094	0.2366	0.095	-	12/06/2023 16:21	GMG,NIC1
107	I2370780-06 WG1858663	2.500	2.500	2.500	0.3538	0.2811	0.112	-	12/06/2023 16:24	GMG,NIC1
108	WG1858671-1 WG1858671	2.500	2.500	2.500	0.0866	0.0130	0.005	-	12/06/2023 16:53	DJR,NIC1
109	Check STD(5ug/L)	2.500	2.500	2.500	11.8464	11.8154	4.726	94.5	12/06/2023 16:56	DJR,NIC1
110	Check Blank	2.500	2.500	2.500	0.0481	-0.0257	-0.010	-	12/06/2023 17:05	DJR,NIC1
111	WG1858671-2 WG1858671	2.500	2.500	2.500	2.2683	2.2026	0.881	-	12/06/2023 17:08	DJR,NIC1
112	L2370781-14 WG1858671	2.500	2.500	2.500	0.0876	0.0140	0.006	-	12/06/2023 17:12	DJR,NIC1
113	WG1858671-3 WG1858671	2.500	2.500	2.500	11.0750	11.0412	4.416	-	12/06/2023 17:15	DJR,NIC1
114	WG1858671-4 WG1858671	2.500	2.500	2.500	11.2891	11.2561	4.502	-	12/06/2023 17:18	DJR,NIC1
115	L2370781-01 WG1858671	2.500	2.500	2.500	0.1045	0.0309	0.012	-	12/06/2023 17:22	DJR,NIC1
116	L2370781-02 WG1858671	2.500	2.500	2.500	0.0914	0.0178	0.007	-	12/06/2023 17:25	DJR,NIC1
117	L2370781-03 WG1858671	2.500	2.500	2.500	0.0868	0.0132	0.005	-	12/06/2023 17:28	DJR,NIC1
118	L2370781-04 WG1858671	2.500	2.500	2.500	0.0869	0.0133	0.005	-	12/06/2023 17:31	DJR,NIC1
119	L2370781-05 WG1858671	2.500	2.500	2.500	0.0757	0.0020	0.001	-	12/06/2023 17:35	DJR,NIC1
120	L2370781-06 WG1858671	2.500	2.500	2.500	0.0809	0.0072	0.003	-	12/06/2023 17:38	DJR,NIC1
121	Check STD(5ug/L)	2.500	2.500	2.500	11.7885	11.7573	4.703	94.1	12/06/2023 17:41	DJR,NIC1
122	Check Blank	2.500	2.500	2.500	0.0538	-0.0200	-0.008	-	12/06/2023 18:02	DJR,NIC1
123	L2370781-07 WG1858671	2.500	2.500	2.500	0.0822	0.0085	0.003	-	12/06/2023 18:05	DJR,NIC1
124	L2370781-08 WG1858671	2.500	2.500	2.500	0.0728	-0.0009	-0.000	-	12/06/2023 18:09	DJR,NIC1
125	L2370781-09 WG1858671	2.500	2.500	2.500	0.0795	0.0058	0.002	-	12/06/2023 18:12	DJR,NIC1
126	L2370781-10 WG1858671	2.500	2.500	2.500	0.0710	-0.0027	-0.001	-	12/06/2023 18:15	DJR,NIC1
127	L2370781-11 WG1858671	2.500	2.500	2.500	0.0709	-0.0028	-0.001	-	12/06/2023 18:18	DJR,NIC1
128	L2370781-12 WG1858671	2.500	2.500	2.500	0.0599	-0.0138	-0.006	-	12/06/2023 18:22	DJR,NIC1
129	L2370781-13 WG1858671	2.500	2.500	2.500	0.0555	-0.0183	-0.007	-	12/06/2023 18:25	DJR,NIC1
130	L2370781-15 WG1858671	2.500	2.500	2.500	0.0580	-0.0157	-0.006	-	12/06/2023 18:28	DJR,NIC1
131	L2370781-16 WG1858671	2.500	2.500	2.500	0.0816	0.0079	0.003	-	12/06/2023 18:32	DJR,NIC1
132	L2370781-17 WG1858671	2.500	2.500	2.500	0.0640	-0.0097	-0.004	-	12/06/2023 18:35	DJR,NIC1
133	Check STD(5ug/L)	2.500	2.500	2.500	11.8597	11.8288	4.732	94.6	12/06/2023 18:38	DJR,NIC1
134	Check Blank	2.500	2.500	2.500	0.0457	-0.0281	-0.011	-	12/06/2023 18:51	DJR,NIC1

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
135	xWG1858663-1 WG1858663	2.500	2.500	2.500	0.9619	0.8914	0.357	-	12/06/2023 18:54	DJR,NIC1

Title :
Date : 12/6/2023
Name :

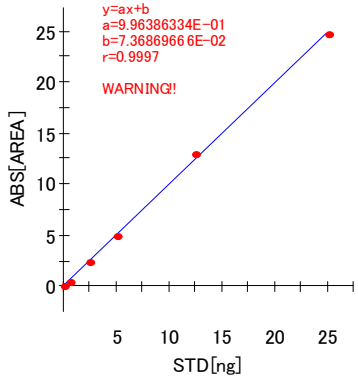
Method

STD
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3Cl : 0.0mL
(1+1)H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec

Calib



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0638	-0.0099	-	12/06/2023 06:36	GMG,NIC1
2	0.200	2.500	2.500	2.500	0.500	0.5315	0.4595	8.1	12/06/2023 06:39	GMG,NIC1
3	1.000	2.500	2.500	2.500	2.500	2.4960	2.4311	2.8	12/06/2023 06:42	GMG,NIC1
4	2.000	2.500	2.500	2.500	5.000	4.9220	4.8659	2.7	12/06/2023 06:46	GMG,NIC1
5	5.000	2.500	2.500	2.500	12.500	12.9648	12.9379	3.5	12/06/2023 06:49	GMG,NIC1
6	10.000	2.500	2.500	2.500	25.000	24.7996	24.8156	0.7	12/06/2023 06:52	GMG,NIC1

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	Check STD(5ug/L)	2.500	2.500	2.500	11.8987	11.8679	4.747	94.9	12/06/2023 23:30	DJR,NIC1
2	Check Blank	2.500	2.500	2.500	0.0445	-0.0293	-0.012	-	12/06/2023 23:33	DJR,NIC1
3	WG1859882-1 WG1859882	2.500	2.500	2.500	0.0710	-0.0027	-0.001	-	12/06/2023 23:37	DJR,NIC1
4	WG1859882-2 WG1859882	2.500	2.500	2.500	2.2686	2.2029	0.881	-	12/06/2023 23:40	DJR,NIC1
5	I2370783-04 WG1859882	2.500	2.500	2.500	0.1301	0.0566	0.023	-	12/06/2023 23:43	DJR,NIC1
6	WG1859882-3 WG1859882	2.500	2.500	2.500	10.8417	10.8071	4.323	-	12/06/2023 23:47	DJR,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG1859882-4 WG1859882	2.500	2.500	2.500	10.7714	10.7365	4.295	-	12/06/2023 23:50	DJR,NIC1
8	I2371040-03 WG1859882	2.500	2.500	2.500	0.2174	0.1442	0.058	-	12/06/2023 23:53	DJR,NIC1
9	WG1859882-5 WG1859882	2.500	2.500	2.500	11.2088	11.1755	4.470	-	12/06/2023 23:57	DJR,NIC1
10	WG1859882-6 WG1859882	2.500	2.500	2.500	11.1082	11.0745	4.430	-	12/07/2023 00:00	DJR,NIC1
11	I2370783-01 WG1859882	2.500	2.500	2.500	0.1095	0.0359	0.014	-	12/07/2023 00:03	DJR,NIC1
12	I2370783-02 WG1859882	2.500	2.500	2.500	0.0881	0.0145	0.006	-	12/07/2023 00:06	DJR,NIC1
13	Check STD(5ug/L)	2.500	2.500	2.500	12.1393	12.1094	4.844	96.9	12/07/2023 00:10	DJR,NIC1
14	Check Blank	2.500	2.500	2.500	0.0636	-0.0101	-0.004	-	12/07/2023 00:13	DJR,NIC1
15	I2370783-03 WG1859882	2.500	2.500	2.500	0.1129	0.0394	0.016	-	12/07/2023 00:16	DJR,NIC1
16	I2370783-05 WG1859882	2.500	2.500	2.500	0.1102	0.0366	0.015	-	12/07/2023 00:20	DJR,NIC1
17	I2370783-06 WG1859882	2.500	2.500	2.500	0.1275	0.0540	0.022	-	12/07/2023 00:23	DJR,NIC1
18	I2370783-07 WG1859882	2.500	2.500	2.500	0.1299	0.0564	0.023	-	12/07/2023 00:26	DJR,NIC1
19	I2370783-08 WG1859882	2.500	2.500	2.500	0.1167	0.0432	0.017	-	12/07/2023 00:30	DJR,NIC1
20	I2370783-09 WG1859882	2.500	2.500	2.500	0.1272	0.0537	0.021	-	12/07/2023 00:33	DJR,NIC1
21	I2370783-11 WG1859882	2.500	2.500	2.500	0.1114	0.0378	0.015	-	12/07/2023 00:36	DJR,NIC1
22	I2371040-01 WG1859882	2.500	2.500	2.500	0.1006	0.0270	0.011	-	12/07/2023 00:40	DJR,NIC1
23	I2371040-02 WG1859882	2.500	2.500	2.500	0.1060	0.0324	0.013	-	12/07/2023 00:43	DJR,NIC1
24	I2371040-04 WG1859882	2.500	2.500	2.500	0.1006	0.0270	0.011	-	12/07/2023 00:46	DJR,NIC1
25	Check STD(5ug/L)	2.500	2.500	2.500	11.9060	11.8752	4.750	95.0	12/07/2023 00:49	DJR,NIC1
26	Check Blank	2.500	2.500	2.500	0.0676	-0.0061	-0.002	-	12/07/2023 00:53	DJR,NIC1
27	I2371040-05 WG1859882	2.500	2.500	2.500	0.1041	0.0305	0.012	-	12/07/2023 00:56	DJR,NIC1
28	I2371040-06 WG1859882	2.500	2.500	2.500	0.1038	0.0302	0.012	-	12/07/2023 00:59	DJR,NIC1
29	Check STD(5ug/L)	2.500	2.500	2.500	12.0871	12.0570	4.823	96.5	12/07/2023 01:03	DJR,NIC1
30	Check Blank	2.500	2.500	2.500	0.0652	-0.0085	-0.003	-	12/07/2023 01:06	DJR,NIC1

NIC NIPPON INSTRUMENTS CORPORATION

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Matthew Seebeck

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Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[7]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

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ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number[6]	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor (k=2). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:
$U_{expanded} = k * SQRT((U_{char}^2) + (U_{homogen}^2) + (U_{LTS}^2) + (U_{STS}^2) + (U_{RSS}^2))$

Where:

$U_{expanded}$ = Expanded uncertainty.
k = Coverage factor.
U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.
$U_{homogen}$ = Standard uncertainty of the homogeneity assessment.
U_{LTS} = Standard uncertainty associated with long-term stability.
U_{STS} = Standard uncertainty associated with short-term (transport) stability.
U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

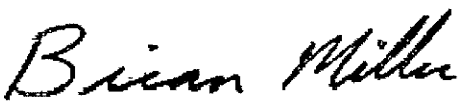
8. **Metrological Traceability**. This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller



Quality Officer

Matthew Seebeck

ERA
A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

16341 Table Mountain Pkwy ▪ Golden, CO 80403 ▪ T: 800.372.0122 ▪ 303.431.8454 ▪ www.eraqc.com

Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

No.	Sample No.	NAME
1	1	STD
2	2	STD
3	3	STD
4	4	STD
5	5	STD
6	6	STD
1	7	XICV
2	7	ICV
3	8	ICB
4	9	L2200086-37 WG1860159
5	10	WG1860159-1 WG1860159
6	11	WG1860159-2 WG1860159
7	12	L2371604-01 WG1860159
8	13	WG1860159-3 WG1860159
9	14	WG1860159-4 WG1860159
10	15	WG1859933-1 WG1859933
11	16	WG1859933-2 WG1859933
12	17	l2367708-05 WG1859933
13	18	XWG1859933-3 WG1859933
14	19	Check STD(5ug/L)
15	20	Check Blank
16	21	WG1859933-4 WG1859933
17	22	WG1859933-3D2 WG1859933
18	23	WG1858271-1 WG1858271
19	24	WG1858271-2 WG1858271
20	25	L2370027-03 WG1858271
21	26	WG1858271-3 WG1858271
22	27	WG1858271-4 WG1858271
23	28	L2370345-01 WG1858271
24	29	L2370027-04 WG1858271
25	30	WG1858271-5 WG1858271
26	31	Check STD(5ug/L)
27	32	Check Blank
28	33	WG1858271-6 WG1858271
29	34	XL2370027-03 WG1858271
30	35	XWG1858271-4 WG1858271
31	36	L2370027-01 WG1858271
32	37	L2370027-02 WG1858271
33	38	L2370027-05 WG1858271
34	39	L2370027-06 WG1858271
35	40	L2370027-08 WG1858271
36	41	L2370027-09 WG1858271
37	42	L2370027-10 WG1858271
38	43	Check STD(5ug/L)
39	44	Check Blank
40	45	L2370027-11 WG1858271

41	46	L2370027-12 WG1858271
42	47	L2369989-01 WG1858271
43	48	L2369992-01 WG1858271
44	49	WG1859771-1 WG1859771
45	50	WG1859771-2 WG1859771
46	51	L2370783-04 WG1859771
47	52	WG1859771-3 WG1859771
48	53	WG1859771-4 WG1859771
49	54	L2371040-03 WG1859771
50	55	Check STD(5ug/L)
51	56	Check Blank
52	57	WG1859771-5 WG1859771
53	58	WG1859771-6 WG1859771
54	59	L2370783-01 WG1859771
55	60	L2370783-02 WG1859771
56	61	L2370783-03 WG1859771
57	62	L2370783-05 WG1859771
58	63	L2370783-06 WG1859771
59	64	L2370783-07 WG1859771
60	65	L2370783-08 WG1859771
61	66	L2370783-09 WG1859771
62	67	Check STD(5ug/L)
63	68	Check Blank
64	69	L2370783-11 WG1859771
65	70	L2371040-01 WG1859771
66	71	L2371040-02 WG1859771
67	72	L2371040-04 WG1859771
68	73	L2371040-05 WG1859771
69	74	L2371040-06 WG1859771
70	75	WG1860352-1 WG1860352
71	76	WG1860352-2 WG1860352
72	77	L2369078-01 WG1860352
73	78	WG1860352-3 WG1860352
74	79	Check STD(5ug/L)
75	80	Check Blank
76	1	WG1860352-4 WG1860352
77	2	WG1858758-1 WG1858758
78	3	WG1858758-2 WG1858758
79	4	L2370494-03 WG1858758
80	5	WG1858758-3 WG1858758
81	6	WG1858758-4 WG1858758
82	7	L2370494-01 WG1858758
83	8	L2370494-02 WG1858758
84	9	L2370494-05 WG1858758
85	11	Check STD(5ug/L)
86	12	Check Blank
87	13	WG1860309-1 WG1860309

88	14	WG1860309-2 WG1860309
89	15	L2371107-02 WG1860309
90	16	WG1860309-3 WG1860309
91	17	WG1860309-4 WG1860309
92	18	Check STD(5ug/L)
93	19	Check Blank
94	20	WG1858663-1 WG1858663
95	21	WG1858663-2 WG1858663
96	22	l2370780-07 WG1858663
97	23	Check STD(5ug/L)
98	24	Check Blank
99	25	WG1858663-3 WG1858663
100	26	WG1858663-4 WG1858663
101	27	l2370774-03 WG1858663
102	28	l2370780-01 WG1858663
103	29	l2370780-02 WG1858663
104	30	l2370780-03 WG1858663
105	31	l2370780-04 WG1858663
106	32	l2370780-05 WG1858663
107	33	l2370780-06 WG1858663
108	34	WG1858671-1 WG1858671
109	35	Check STD(5ug/L)
110	36	Check Blank
111	37	WG1858671-2 WG1858671
112	38	L2370781-14 WG1858671
113	39	WG1858671-3 WG1858671
114	40	WG1858671-4 WG1858671
115	41	L2370781-01 WG1858671
116	42	L2370781-02 WG1858671
117	43	L2370781-03 WG1858671
118	44	L2370781-04 WG1858671
119	45	L2370781-05 WG1858671
120	46	L2370781-06 WG1858671
121	47	Check STD(5ug/L)
122	48	Check Blank
123	49	L2370781-07 WG1858671
124	50	L2370781-08 WG1858671
125	51	L2370781-09 WG1858671
126	52	L2370781-10 WG1858671
127	53	L2370781-11 WG1858671
128	54	L2370781-12 WG1858671
129	55	L2370781-13 WG1858671
130	56	L2370781-15 WG1858671
131	57	L2370781-16 WG1858671
132	58	L2370781-17 WG1858671
133	59	Check STD(5ug/L)
134	60	Check Blank

135	61	xWG1858663-1 WG1858663
1	11	Check STD(5ug/L)
2	12	Check Blank
3	13	WG1859882-1 WG1859882
4	14	WG1859882-2 WG1859882
5	15	l2370783-04 WG1859882
6	16	WG1859882-3 WG1859882
7	17	WG1859882-4 WG1859882
8	18	l2371040-03 WG1859882
9	19	WG1859882-5 WG1859882
10	20	WG1859882-6 WG1859882
11	21	l2370783-01 WG1859882
12	22	l2370783-02 WG1859882
13	23	Check STD(5ug/L)
14	24	Check Blank
15	25	l2370783-03 WG1859882
16	26	l2370783-05 WG1859882
17	27	l2370783-06 WG1859882
18	28	l2370783-07 WG1859882
19	29	l2370783-08 WG1859882
20	30	l2370783-09 WG1859882
21	31	l2370783-11 WG1859882
22	32	l2371040-01 WG1859882
23	33	l2371040-02 WG1859882
24	34	l2371040-04 WG1859882
25	35	Check STD(5ug/L)
26	36	Check Blank
27	37	l2371040-05 WG1859882
28	38	l2371040-06 WG1859882
29	47	Check STD(5ug/L)
30	48	Check Blank

METALS ELN REPORT

Workgroup: WG1859771

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 7470A	HNO3	24006499	H2SO4	22380152	METALS	METSPIKE	HG23482910 57AJTV1	METSPIKE	HG23482910320, 344 57AJTV1	

Additional Reagent/Std	K2O8S2	PS2349051337JDH
	KMnO4	PP2349041050AJT
	NaCl-NH2OH.HCl	HH2349281610MJR
		ICV2348280614MMM

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2370783-01 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2370783-02 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2370783-03 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2370783-04 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2370783-05 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2370783-06 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2370783-07 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2370783-08 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2370783-09 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2370783-11 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2371040-01 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2371040-02 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	

Reported: 07-DEC-23 09:39 AM

METALS ELN REPORT

Workgroup: WG1859771

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2371040-03 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2371040-04 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2371040-05 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
L2371040-06 WATER	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	
WG1859771-1 BLANK	12/05/23 08:42	Michelle Mattson	25		12/05/23 08:42	5	95.1	12/05/23 10:42	25	ELN: REB
WG1859771-2 LCS	12/05/23 08:42	Michelle Mattson	25	0.25	12/05/23 08:42	5	95.1	12/05/23 10:42	25	
WG1859771-3 MS	12/05/23 08:42	Michelle Mattson	25	1.25	12/05/23 08:42	5	95.1	12/05/23 10:42	25	
WG1859771-4 MSD	12/05/23 08:42	Michelle Mattson	25	1.25	12/05/23 08:42	5	95.1	12/05/23 10:42	25	
WG1859771-5 MS	12/05/23 08:42	Michelle Mattson	25	1.25	12/05/23 08:42	5	95.1	12/05/23 10:42	25	
WG1859771-6 MSD	12/05/23 08:42	Michelle Mattson	25	1.25	12/05/23 08:42	5	95.1	12/05/23 10:42	25	

Reported: 07-DEC-23 09:39 AM

METALS ELN REPORT

Workgroup: WG1859771

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 07-DEC-23 09:39 AM

METALS ELN REPORT

Workgroup: WG1859882

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 7470A	HNO3	24006499	H2SO4	22380152	METALS	METSPIKE	HG23482910 57AJTV1	METSPIKE	ICV2348280 614MMM	320, 344

Additional Reagent/Std	K2O8S2	PS2349051337JDH
	KMnO4	PP2349050330BJS
	NaCl-NH2OH.HCl	HH2348012149MAM

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2370783-01 WATER	12/06/23 03:00	Brandon Siah	NA	25	12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H
L2370783-02 WATER	12/06/23 03:00	Brandon Siah	NA	25	12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H
L2370783-03 WATER	12/06/23 03:00	Brandon Siah	NA	25	12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H
L2370783-04 WATER	12/06/23 03:00	Brandon Siah	NA	25	12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H
L2370783-05 WATER	12/06/23 03:00	Brandon Siah	NA	25	12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H
L2370783-06 WATER	12/06/23 03:00	Brandon Siah	NA	25	12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H
L2370783-07 WATER	12/06/23 03:00	Brandon Siah	NA	25	12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H
L2370783-08 WATER	12/06/23 03:00	Brandon Siah	NA	25	12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H
L2370783-09 WATER	12/06/23 03:00	Brandon Siah	NA	25	12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER D
L2370783-11 WATER	12/06/23 03:00	Brandon Siah	NA	25	12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER D
L2371040-01 WATER	12/06/23 03:00	Brandon Siah	NA	25	12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H
L2371040-02 WATER	12/06/23 03:00	Brandon Siah	NA	25	12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H

METALS ELN REPORT

Workgroup: WG1859882

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2371040-03 WATER	12/06/23 03:00	Brandon Siah	NA	25		12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H
L2371040-04 WATER	12/06/23 03:00	Brandon Siah	NA	25		12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H
L2371040-05 WATER	12/06/23 03:00	Brandon Siah	NA	25		12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H
L2371040-06 WATER	12/06/23 03:00	Brandon Siah	12-02-23 08:21	25		12/06/23 03:00	2082	95	12/06/23 05:00	25	CONTAINER H
WG1859882-1 BLANK	12/06/23 03:00	Brandon Siah	12/02/23 08:21	25		12/06/23 03:00	2082	95	12/06/23 05:00	25	ELN check: CLH
WG1859882-2 LCS	12/06/23 03:00	Brandon Siah	NA	25	.250	12/06/23 03:00	2082	95	12/06/23 05:00	25	
WG1859882-3 MS	12/06/23 03:00	Brandon Siah	NA	25	1.250	12/06/23 03:00	2082	95	12/06/23 05:00	25	
WG1859882-4 MSD	12/06/23 03:00	Brandon Siah	NA	25	1.250	12/06/23 03:00	2082	95	12/06/23 05:00	25	
WG1859882-5 MS	12/06/23 03:00	Brandon Siah	NA	25	1.250	12/06/23 03:00	2082	95	12/06/23 05:00	25	
WG1859882-6 MSD	12/06/23 03:00	Brandon Siah	NA	25	1.250	12/06/23 03:00	2082	95	12/06/23 05:00	25	

Reported: 07-DEC-23 09:39 AM

METALS ELN REPORT

Workgroup: WG1859882

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganat	3.75	ml
Potassium Persulfate (K	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Reported: 07-DEC-23 09:39 AM

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 12:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1861045.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	2.8	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 12:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1861045.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.4	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 12:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1861045.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	5.2	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 12:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1861045.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	0.46	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 12:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1861045.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	1.5	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 12:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1861045.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	3.6	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 12:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1861045.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	7.2	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 12:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1861045.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	3.7	0.30	0.30	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-10	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP2	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 12:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 107,-	**Analyst**	: MRM
Lab File ID	: WG1861045.csv	**Instrument ID**	:
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Total Nitrogen	7.4	0.30	0.30	

Sample Raw Data

ALPHA ANALYTICAL LABS

WET CHEMISTRY DEPARTMENT

TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: Total Nitrogen

Method: *Calculation from TKN & NO3/NO2*

Product: TNITROGEN
Analyte: Total Nitrogen,
Analysis Date: 12/7/2023 12:20
Technician: MRM
Work group: WG1861045
RL: 0.3 mg/L

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2370448-01	14.8	0.048	1.0	14.8
SAMP	L2370448-02	21.3	0.19	1.0	21.49
SAMP	L2370448-03	4.63	0.096	1.0	4.63
SAMP	L2370466-01	10.2	33.24	1.0	43.44
SAMP	L2370474-01	3.05	0.214	1.0	3.264
	L2370783-01	2.55	0.21	1.0	2.76
	L2370783-02	0.54	0.88	1.0	1.42
	L2370783-03	0.139	5.2	1.0	5.2
	L2370783-04	0.184	0.46	1.0	0.46
	L2370783-05	0.248	1.5	1.0	1.5
	L2370783-06	3.09	0.5	1.0	3.59
	L2370783-07	0.3	6.9	1.0	7.2
	L2370783-08	0.762	2.9	1.0	3.662
	L2370783-10	0.31	7.1	1.0	7.41

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and N03/NO2-N.

Aqueous samples:

mgTN-N/L = TKN-N(mg/l) + NO3/NO2-N (mg/l)

Soil samples:

mgTN-N/Kg = TKN-N(mg/Kg) + NO3/NO2-N(mg/Kg)

Total Kjeldahl Nitrogen Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 18:55
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320231205-H	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	2.55	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 19:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320231205-H	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.540	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 19:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320231205-H	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.139	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 19:03
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320231205-H	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.184	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 19:04
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320231205-H	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.248	0.300	0.066	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 19:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320231205-H	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	3.09	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 19:06
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320231205-H	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.300	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 19:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320231205-H	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.762	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-10	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP2	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 19:07
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320231205-H	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.310	0.300	0.066	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859720-1	**Date Collected**	: NA
Client ID	: WG1859720-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/05/23 18:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320231205-H	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	0.118	0.300	0.022	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859720-3	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1SDUP	**Date Received**	: 11/30/23
Sample Location	:	**Date Analyzed**	: 12/05/23 18:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NH3-H	**Analyst**	: AT
Lab File ID	: NH320231205-H	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Total Kjeldahl	2.81	0.300	0.066	

Sample Raw Data

Original Run Filename: OM_12-5-2023_08-38-45AM.OMN Created: 12/5/2023 8:38:45 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_08-38-45AM.OMN Last Modified: 12/5/2023 9:11:22 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY A

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
STD 1	1	S1	10.00000				
STD 2	1	S2	8.00000				
STD 3	1	S3	4.00000				
STD 4	1	S4	2.00000				
STD 5	1	S5	1.00000				
STD 6	1	S6	0.40000				
STD 7	1	S7	0.20000				
STD 8	1	S8	0.10000				
STD 9	1	S9	0.05000				
STD 10	1	S10	0.00000				
CCV 0.4000	1	S6	0.38670				
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCV 4.0000	1	S3	3.86641				
	Known Conc:		100.00000				
CCB	1	S10	0.02284				
	Known Conc:		100.00000				
HI ICV 8.0	1	1	8.06112				101%
LO ICV 1.0	1	2	1.03465				103%
ICB	1	3	0.01731				
WG1858991-1 T	1	4	0.05703			1.00000 g	
WG1858991-2 T	1	5	13653.90527		750.00	0.14290 g	98%
LCS LO T	1	6	1455.05481		150.00	0.13610 g	
L2369985-01 T	1	7	11813.90234		150.00	0.11910 g	
L2370506-01 T	1	8	1234.65100		150.00	0.13650 g	
WG1858991-4 T	1	9	4675.73242		150.00	0.11290 g	
WG1858991-3 T	1	10	1113.10059		150.00	0.13910 g	
CCV 0.4000	1	S6	0.42201				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.95099				
	Known Conc:		100.00000				
CCB	1	S10	0.02561				
	Known Conc:		100.00000				
L2370544-01 T	1	11	14006.46289		150.00	0.10630 g	
CCV 0.4000	1	S6	0.42388				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.93408				
	Known Conc:		100.00000				
CCB	1	S10	0.02518				
	Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Channel 2 (Ammonia High) - Current View

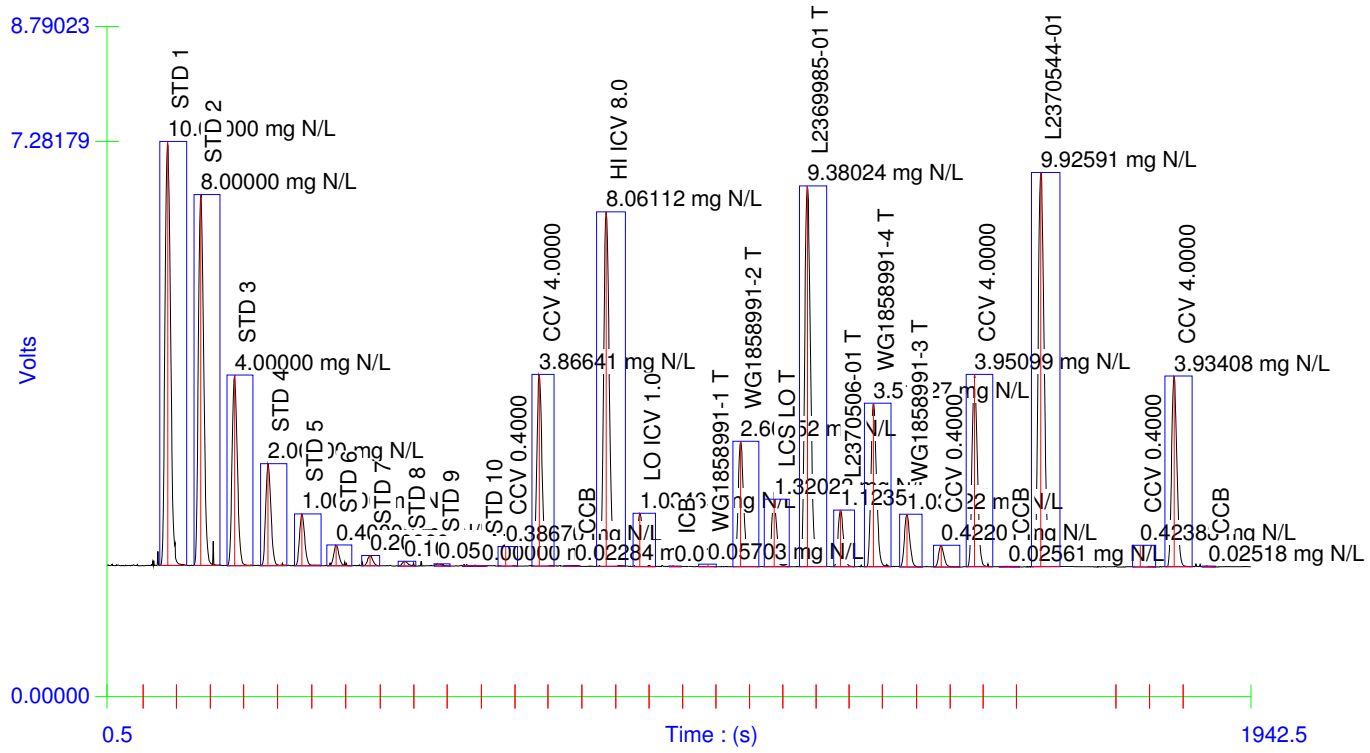
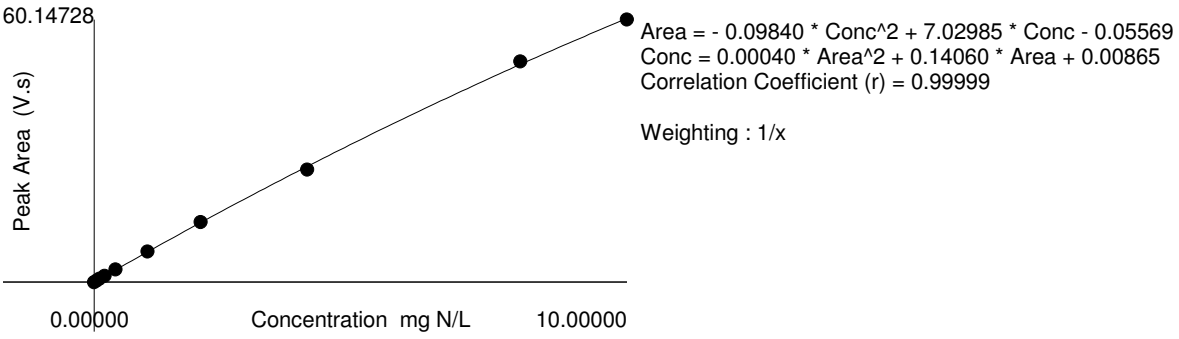


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Original Run Filename: OM_12-5-2023_09-13-55AM.OMN Created: 12/5/2023 9:13:55 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_09-13-55AM.OMN Last Modified: 12/5/2023 9:31:07 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY B

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40206			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.87812			
	Known Conc:		100.00000			
CCB	1	S10	0.02477			
	Known Conc:		100.00000			
WG1859068-1	1	1	0.02136		1.50	
WG1859068-2	1	2	18.39786		7.50	
LCS LO	1	3	1.86083		1.50	
L2370311-02	1	4	0.42923		1.50	
WG1859068-4	1	5	4.09302		1.50	
WG1859068-3	1	6	0.50438		1.50	
L2370311-04	1	7	0.75873		1.50	
L2370311-06	1	8	1.74106		1.50	
CCV 0.4000	1	S6	0.40785			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.89067			
	Known Conc:		100.00000			
CCB	1	S10	0.03097			
	Known Conc:		100.00000			

92%

Channel 2 (Ammonia High) - Current View

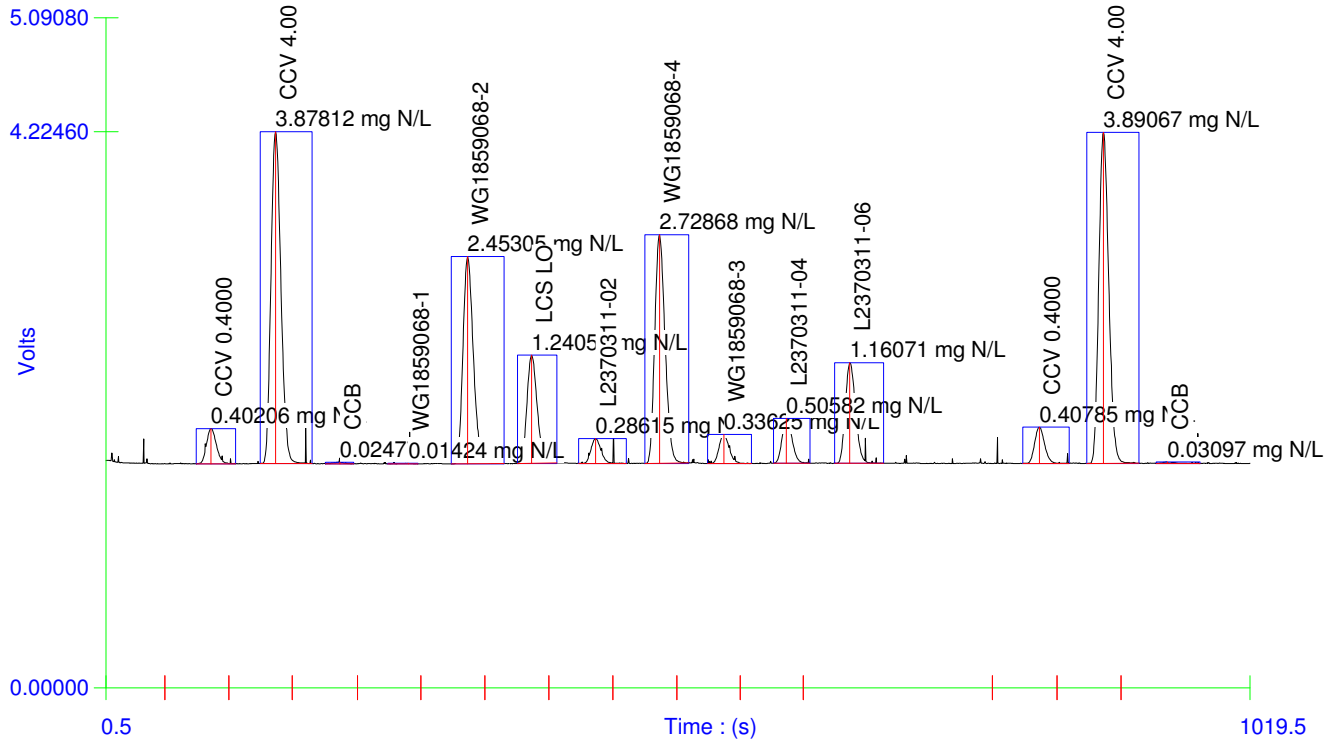
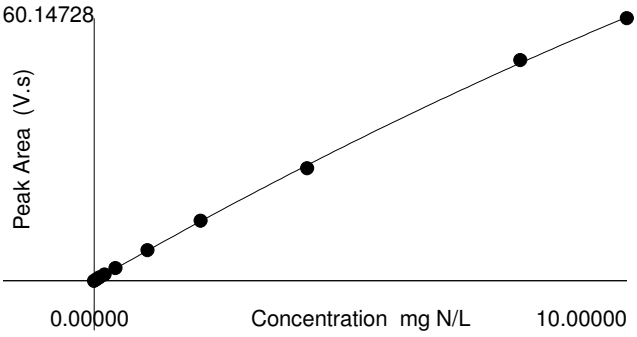


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Area = - 0.09840 * Conc^2 + 7.02985 * Conc - 0.05569
Conc = 0.00040 * Area^2 + 0.14060 * Area + 0.00865
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Original Run Filename: OM_12-5-2023_09-34-33AM.OMN Created: 12/5/2023 9:34:33 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_09-34-33AM.OMN Last Modified: 12/5/2023 10:01:08 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY C

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40222			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.85483			
	Known Conc:		100.00000			
CCB	1	S10	0.01928			
	Known Conc:		100.00000			
WG1859067-1	1	1	0.02659		1.50	
WG1859067-2	1	2	18.62846		7.50	
LCS LO	1	3	1.70452		1.50	
L2370323-06	1	4	0.04123		1.50	
L2370323-07	1	5	0.03582		1.50	
L2370323-08	1	6	8.63197		1.50	
L2370323-09	1	7	0.08829		1.50	
L2370323-10	1	8	0.07097		1.50	
WG1859067-4	1	9	3.61094		1.50	
WG1859067-3	1	10	0.08814		1.50	
CCV 0.4000	1	S6	0.41303			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.89954			
	Known Conc:		100.00000			
CCB	1	S10	0.02922			
	Known Conc:		100.00000			
L2370323-11	1	11	0.02784		1.50	
L2370323-12	1	12	0.18038		1.50	
L2370376-01	1	13	5.90693		7.50	
L2370376-02	1	14	0.04808		1.50	
L2370585-01	1	15	1.32267		1.50	
CCV 0.4000	1	S6	0.40850			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.86172			
	Known Conc:		100.00000			
CCB	1	S10	0.03172			
	Known Conc:		100.00000			

93%

Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Channel 2 (Ammonia High) - Current View

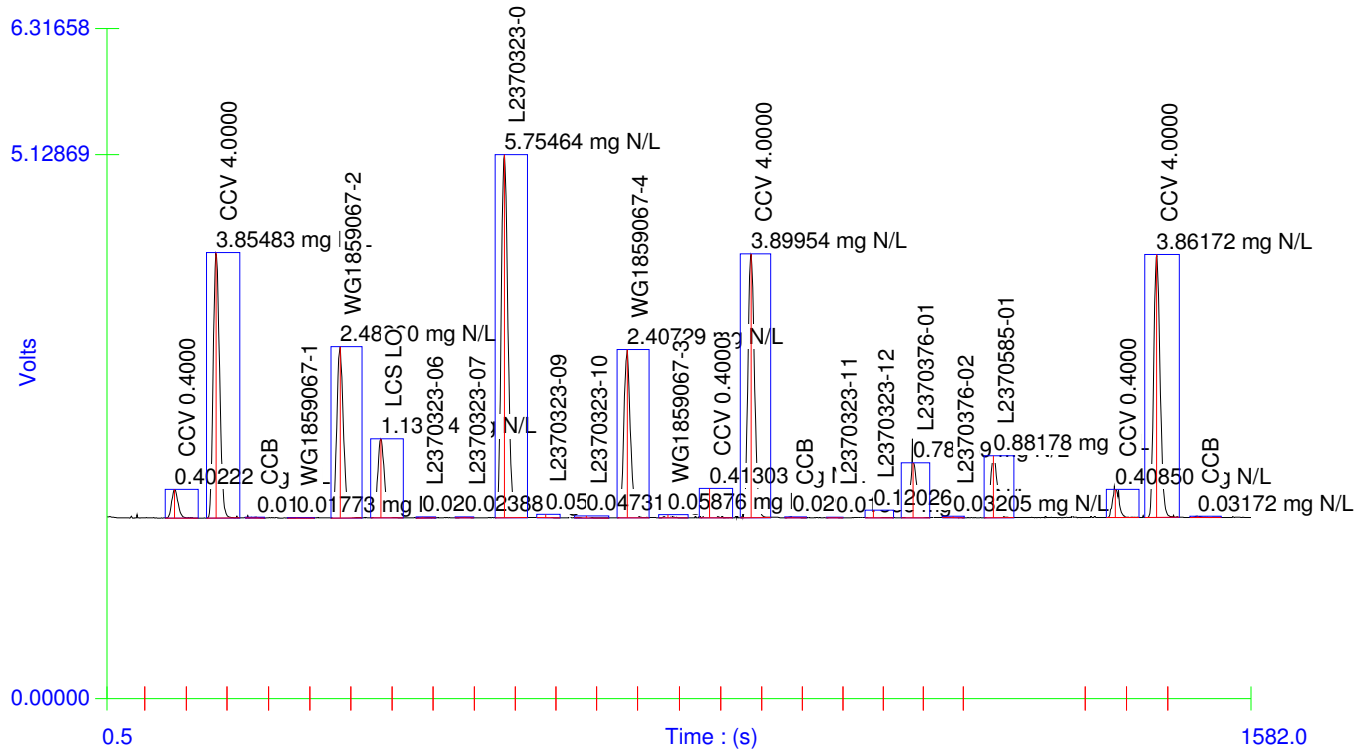
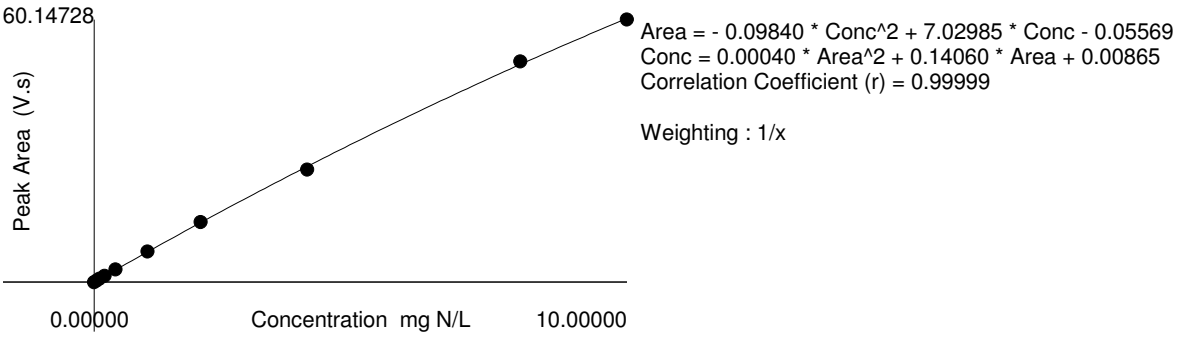


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Original Run Filename: OM_12-5-2023_10-02-42AM.OMN Created: 12/5/2023 10:02:42 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_10-02-42AM.OMN Last Modified: 12/5/2023 10:20:49 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY D

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39517			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.86277			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02635			
	Known Conc:		100.00000			
WG1859069-1	1	1	0.01187		1.50	
WG1859069-2	1	2	19.11189		7.50	
LCS LO	1	3	1.88690		1.50	
L2370342-04	1	4	0.11066		1.50	
L2370348-04	1	5	0.04731		1.50	
L2370348-08	1	6	0.08534		1.50	
L2370348-12	1	7	0.02435		1.50	
WG1859069-4	1	8	3.58217		1.50	
WG1859069-3	1	9	0.06063		1.50	
CCV 0.4000	1	S6	0.41044			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.84586			
	Known Conc:		100.00000			
CCB	1	S10	0.02342			
	Known Conc:		100.00000			

96%

Channel 2 (Ammonia High) - Current View

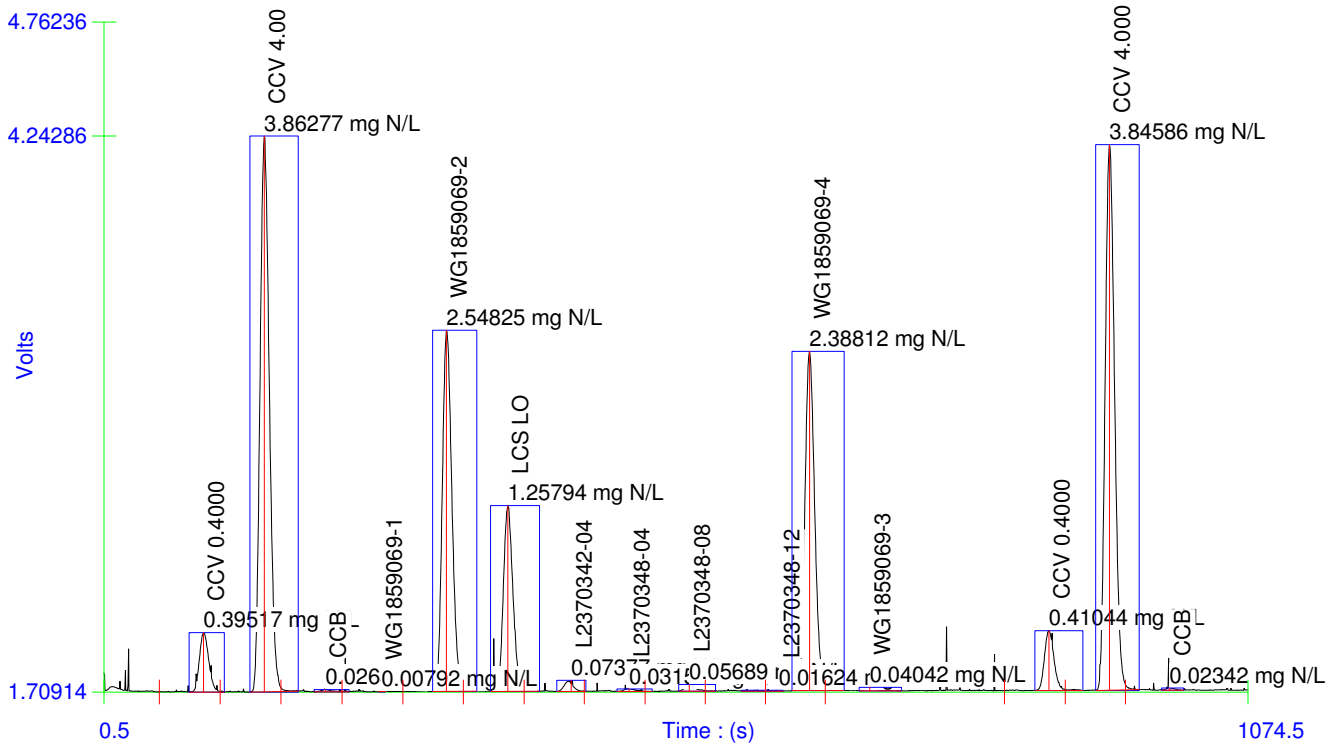
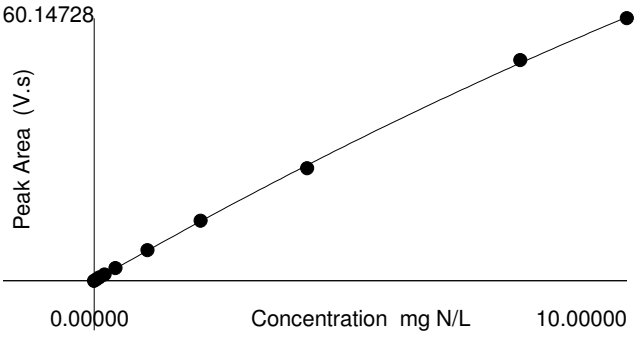


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Area = - 0.09840 * Conc^2 + 7.02985 * Conc - 0.05569
Conc = 0.00040 * Area^2 + 0.14060 * Area + 0.00865
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Original Run Filename: OM_12-5-2023_10-27-17AM.OMN Created: 12/5/2023 10:27:17 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_10-27-17AM.OMN Last Modified: 12/5/2023 10:42:51 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
	CCV 0.4000	1	S6	0.39328				TRAY E
			Known Conc:	100.00000				
			Calibration:	Table/Fig. : 1				
	CCV 4.0000	1	S3	3.87962				
			Known Conc:	100.00000				
	CCB	1	S10	0.02759				
			Known Conc:	100.00000				
	WG1858839-1 T	1	1	0.06891				
	WG1858839-2 T	1	2	40.03909		15.00		100%
	LCS LO T	1	3	4.33121		3.00		
	L2370229-01 T	1	4	11.86272		15.00		
	L2370229-02 T	1	5	0.45798		3.00		
X	L2370247-03 T	1	6	41.52755		3.00		
X	L2370247-04 T	1	7	37.12693		3.00		
X	L2370247-05 T	1	8	22.24977		3.00		
	L2370247-06 T	1	9	15.02120		3.00		
	L2370247-07 T	1	10	8.13218		3.00		
X	CCV 0.4000	1	S6	0.48907				RERUN OK
			Known Conc:	100.00000				

Channel 2 (Ammonia High) - Current View

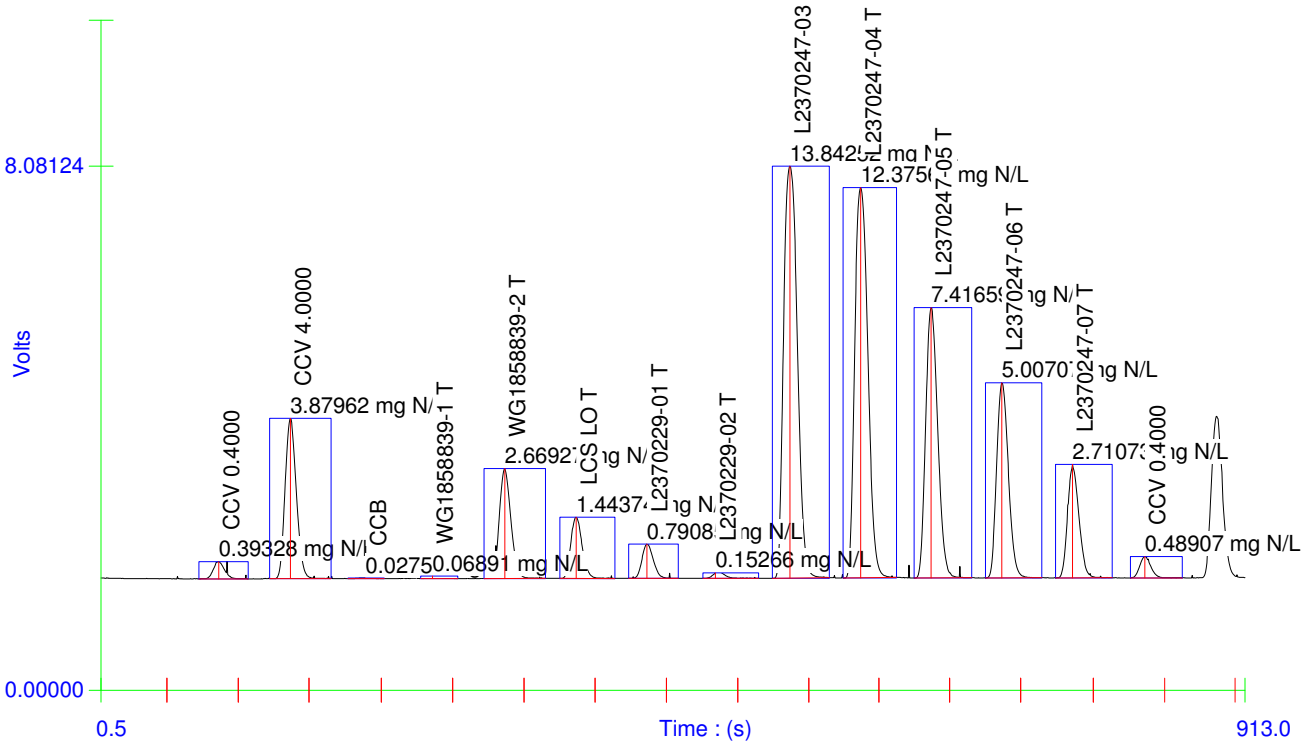
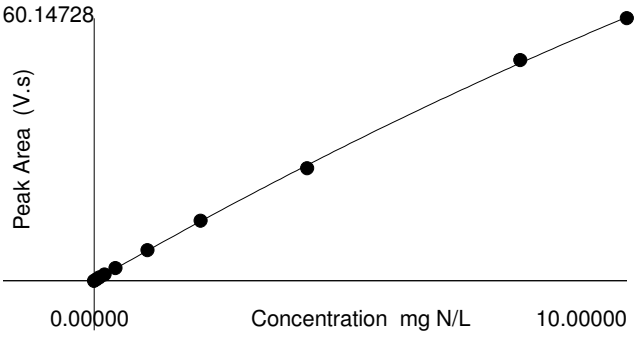


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Area = - 0.09840 * Conc^2 + 7.02985 * Conc - 0.05569
Conc = 0.00040 * Area^2 + 0.14060 * Area + 0.00865
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Original Run Filename: OM_12-5-2023_10-45-15AM.OMN Created: 12/5/2023 10:45:15 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_10-45-15AM.OMN Last Modified: 12/5/2023 11:03:01 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY E

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
	CCV 0.4000	1	S6	0.41076				
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.93207				
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCB	1	S10	0.02785				
		Known Conc:		100.00000				
X	L2370410-01 T	1	11	38.25156		3.00		
X	L2370410-02 T	1	12	4.64853		3.00		
X	L2370437-01 T	1	13	56.69775		3.00		
X	L2370437-02 T	1	14	17.84625		3.00		
	L2370448-01 T	1	15	14.76649		3.00		
	L2370448-02 T	1	16	21.27230		3.00		
	L2370448-03 T	1	17	4.62851		3.00		
	L2370466-01 T	1	18	10.20391		3.00		
	WG1858839-4 T	1	19	15.43637		3.00		
	WG1858839-3 T	1	20	9.75214		3.00		
X	CCV 0.4000	1	S6	0.49679				RERUN OK
		Known Conc:		100.00000				
X	CCV 4.0000	1	S3	3.89567				
		Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

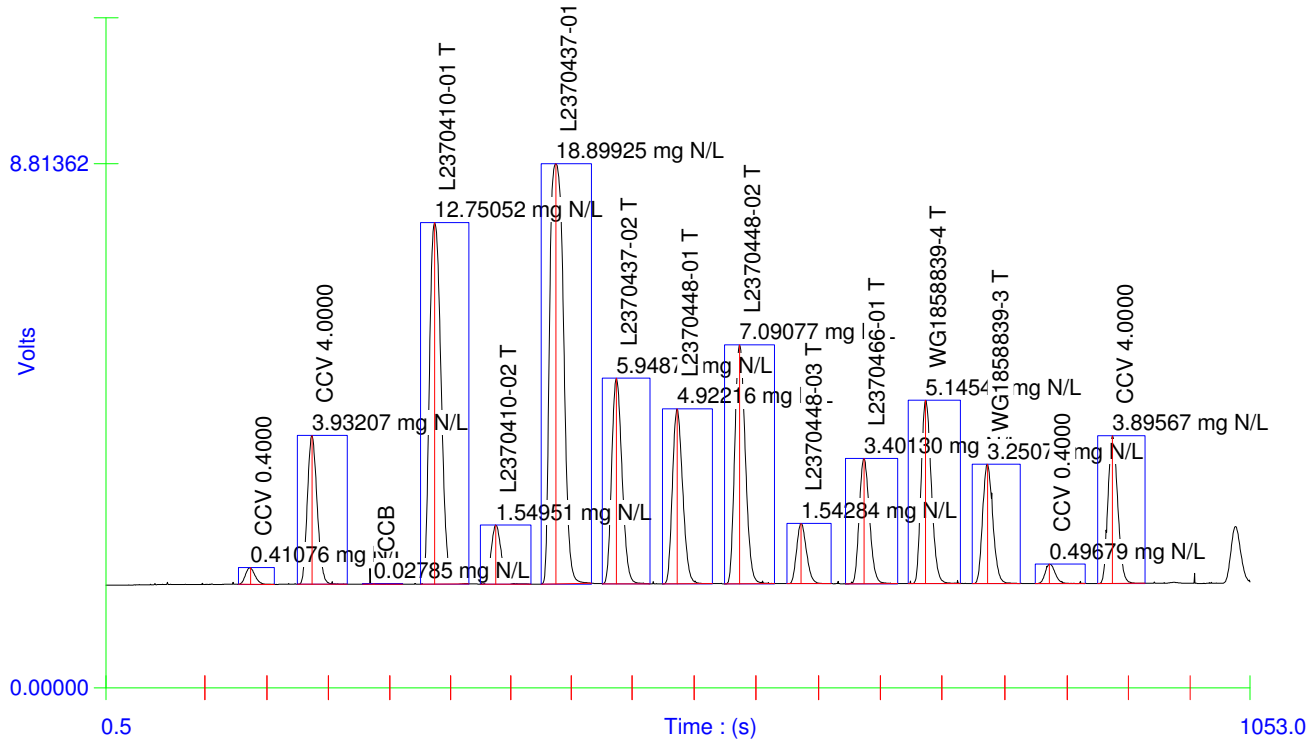
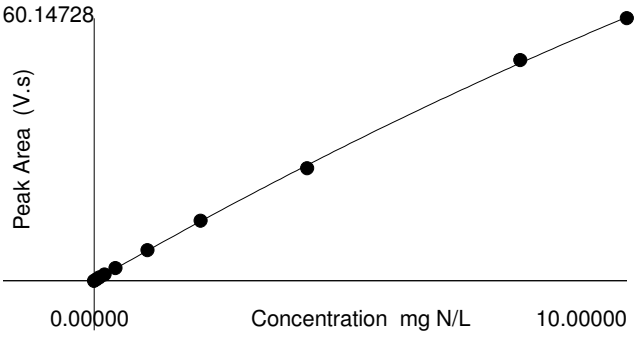


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Area = - 0.09840 * Conc^2 + 7.02985 * Conc - 0.05569
Conc = 0.00040 * Area^2 + 0.14060 * Area + 0.00865
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Original Run Filename: OM_12-5-2023_11-05-15AM.OMN Created: 12/5/2023 11:05:15 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_11-05-15AM.OMN Last Modified: 12/5/2023 11:21:25 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY E

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.42389			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.05074			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02687			
	Known Conc:		100.00000			
L2370247-03 T; 10X	1	6	43.33660		30.00	
L2370247-04 T; 10X	1	7	38.34036		30.00	
L2370247-05 T	1	8	21.50766		3.00	
L2370437-01 T; 20X	1	13	82.44704		60.00	
L2370437-02 T	1	14	16.87163		3.00	
L2370410-01 T; 10X	1	11	43.52186		30.00	
L2370410-02 T	1	12	3.97091		3.00	
CCV 0.4000	1	S6	0.42121			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.01565			
	Known Conc:		100.00000			
CCB	1	S10	0.02719			
	Known Conc:		100.00000			

Channel 2 (Ammonia High) - Current View

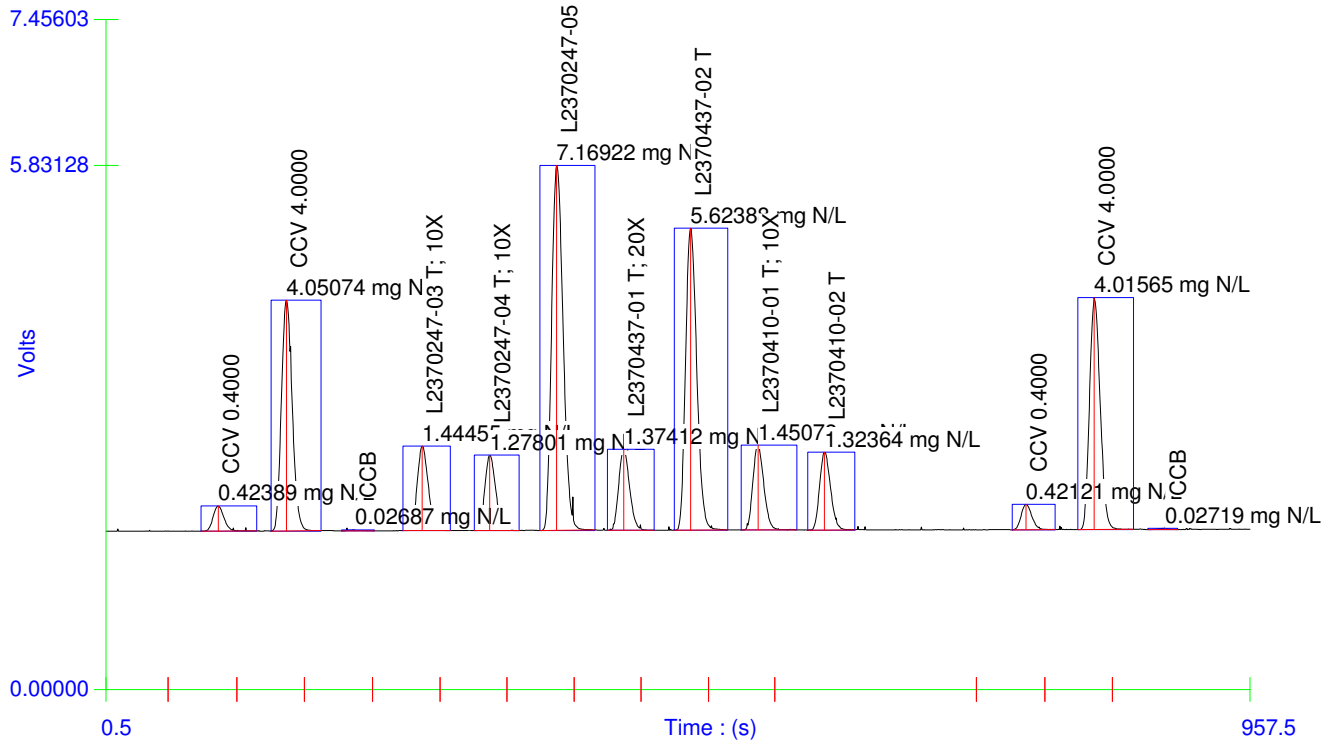
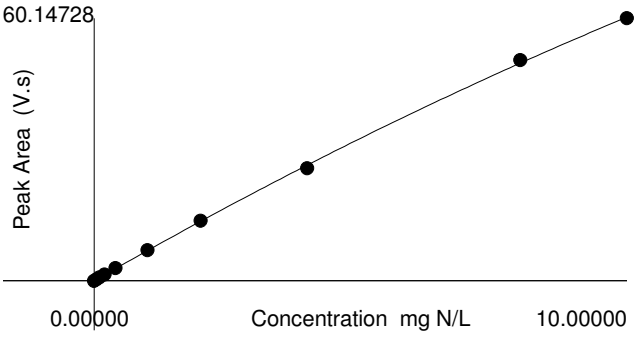


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Area = - 0.09840 * Conc^2 + 7.02985 * Conc - 0.05569
Conc = 0.00040 * Area^2 + 0.14060 * Area + 0.00865
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Original Run Filename: OM_12-5-2023_05-03-24PM.OMN Created: 12/5/2023 5:03:24 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_05-03-24PM.OMN Last Modified: 12/5/2023 5:34:43 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY F

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.37323			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.08978			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.01382			
	Known Conc:		100.00000			
WG1859177-1 T; BLK 12/3	1	1	0.02038			
WG1859177-2 T; HI LCS; 5X	1	2	38.22512		15.00	
LO LCS T	1	3	3.66820		3.00	
L2370660-12 T	1	4	0.47118		3.00	
L2370660-13 T	1	5	0.50800		3.00	
L2370660-14 T	1	6	2.75799		6.00	
L2370660-15 T	1	7	0.58144		3.00	
L2370660-16 T	1	8	109.50554		15.00	
L2370689-03 T	1	9	0.96893		3.00	
L2370689-04 T	1	10	3.00857		3.00	
CCV 0.4000	1	S6	0.42853			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.09991			
	Known Conc:		100.00000			
CCB	1	S10	0.02059			
	Known Conc:		100.00000			
L2370689-05 T	1	11	0.49389		3.00	
L2370780-01 T	1	12	0.11858		3.00	
L2370780-02 T	1	13	0.10947		3.00	
L2370780-03 T	1	14	0.15889		3.00	
L2370780-04 T	1	15	3.87598		3.00	
L2370780-05 T	1	16	0.52376		3.00	
L2370780-06 T	1	17	2.38819		3.00	
L2370780-07 T	1	18	1.75250		3.00	
WG1859177-4 T; 70780.7 MS	1	19	9.50822		3.00	
WG1859177-3 T; 70780.7 DUP	1	20	1.98129		3.00	
CCV 0.4000	1	S6	0.38595			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.06868			
	Known Conc:		100.00000			
CCB	1	S10	0.02101			
	Known Conc:		100.00000			

96%

Author: A1WETCHEMINSTRUMENT Date : 12/6/2023

Channel 2 (Ammonia High) - Current View

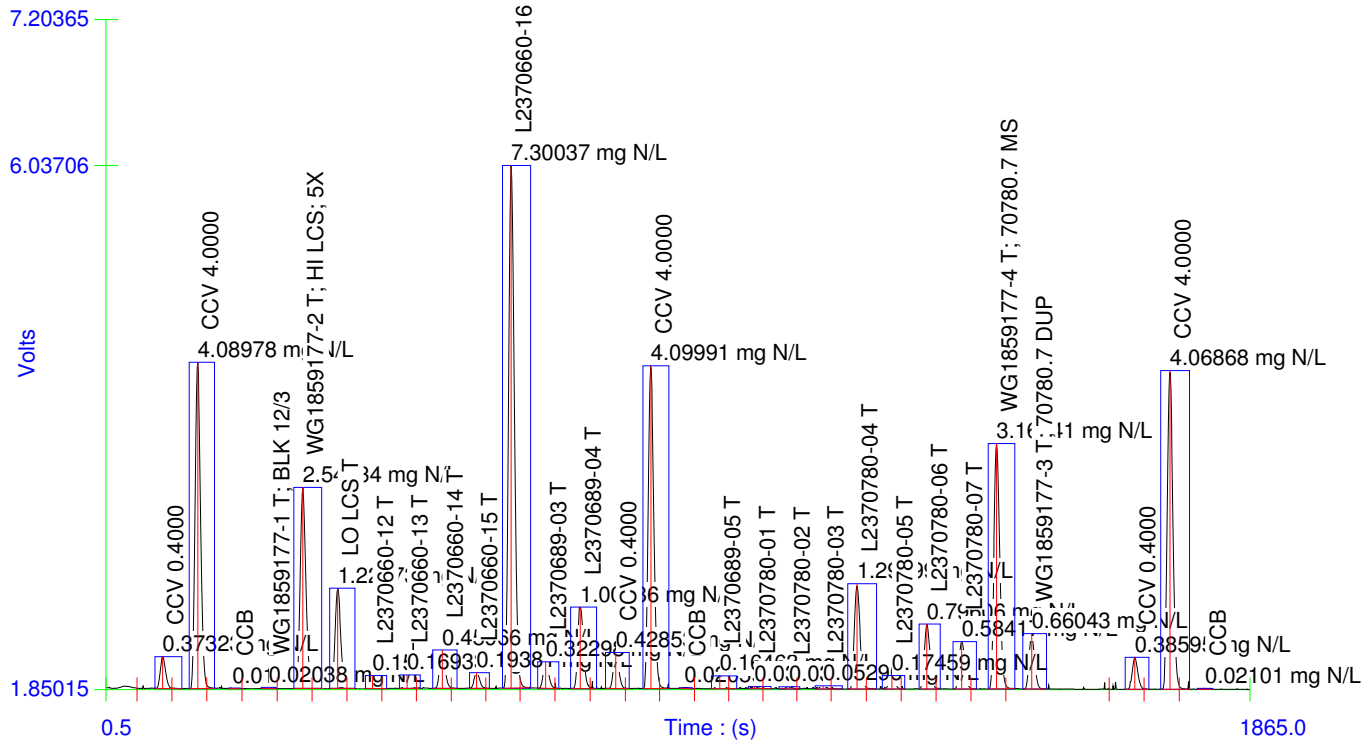
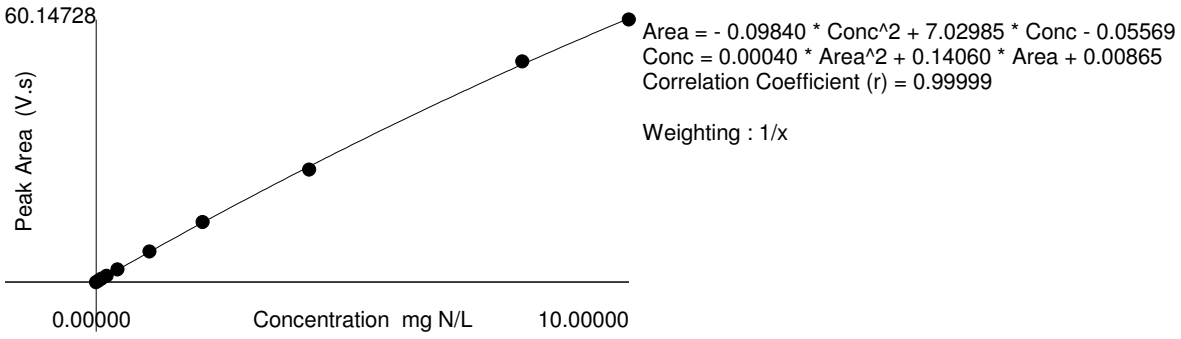


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_12-5-2023_06-11-45PM.OMN Created: 12/5/2023 6:11:45 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_06-11-45PM.OMN Last Modified: 12/5/2023 6:43:05 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY G

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.41492			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.98857			
	Known Conc:		100.00000			
CCB	1	S10	0.04293			
	Known Conc:		100.00000			
WG1859180-1 T; BLK 12/3	1	1	0.03961			
WG1859180-2 T; HI LCS; 5X	1	2	36.93711		15.00	
LO LCS T	1	3	3.97479		3.00	
L2370474-01 T	1	4	3.04906		3.00	
L2370555-01 T	1	5	5.08403		3.00	
L2370601-01 T	1	6	0.27290		3.00	
L2370601-02 T	1	7	0.15524		3.00	
L2370607-01 T; 10X	1	8	36.26059		30.00	
L2370609-01 T; 10X	1	9	107.55118		30.00	
L2370496-01 T	1	10	0.72287		3.00	
CCV 0.4000	1	S6	0.41862			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.93483			
	Known Conc:		100.00000			
CCB	1	S10	0.03532			
	Known Conc:		100.00000			
L2370695-01 T; 10X	1	11	100.24931		30.00	
L2370611-01 T; 10X	1	12	147.30585		30.00	
L2370614-01 T	1	13	2.37905		3.00	
L2370713-01 T	1	14	2.00410		3.00	
L2370756-01 T	1	15	1.28291		3.00	
L2370775-01 T	1	16	1.38224		3.00	
WG1859180-4 T; 70775.1 MS	1	17	8.30448		3.00	
WG1859180-3 T; 70775.1 DUP	1	18	1.45954		3.00	
L2370686-01 T; 10X	1	19	231.34433		60.00	
L2370692-01 T; 10X	1	20	330.49106		150.00	
CCV 0.4000	1	S6	0.41655			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.96736			
	Known Conc:		100.00000			
CCB	1	S10	0.02865			
	Known Conc:		100.00000			

92%

Channel 2 (Ammonia High) - Current View

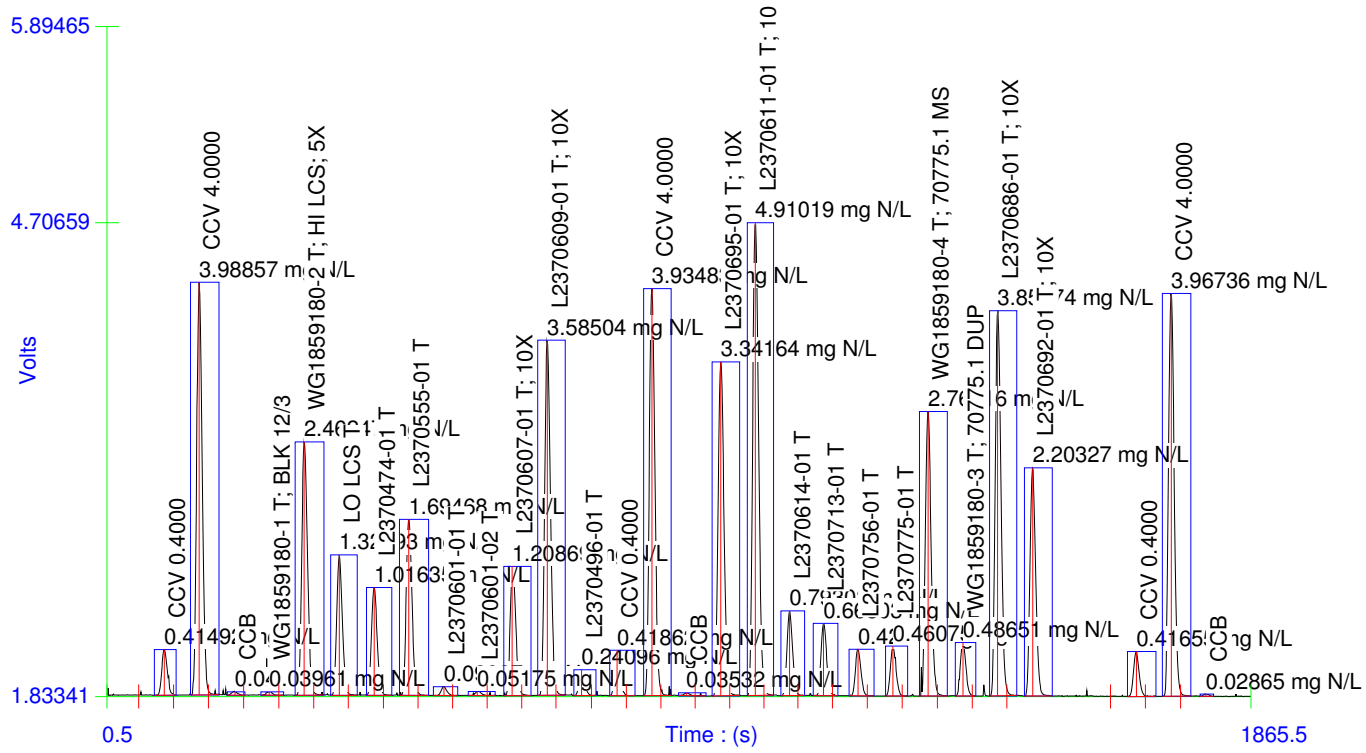
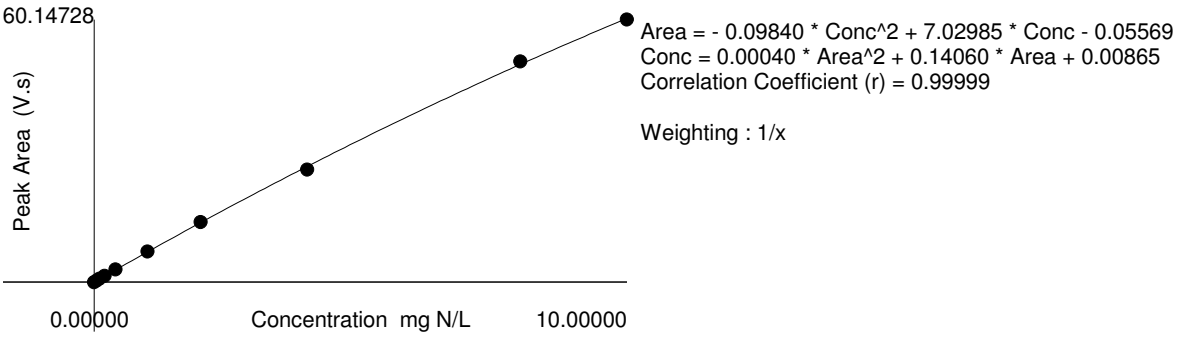


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



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Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_06-43-17PM.OMN Last Modified: 12/5/2023 7:14:36 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY H

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39910			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.89812			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03044			
	Known Conc:		100.00000			
WG1859720-1 T; BLK 12/5	1	1	0.03934			
WG1859720-2 T; HI LCS; 5X	1	2	32.52227		15.00	
LO LCS T	1	3	3.76257		3.00	
L2371125-01 T	1	4	1.31833		3.00	
L2370981-01 T	1	5	1.28138		3.00	
L2370981-02 T	1	6	1.24981		3.00	
L2370981-03 T	1	7	1.31102		3.00	
L2370981-04 T	1	8	0.59329		3.00	
L2370981-05 T	1	9	0.40729		3.00	
L2370783-01 T	1	10	2.54935		3.00	
CCV 0.4000	1	S6	0.42231			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.89313			
	Known Conc:		100.00000			
CCB	1	S10	0.03673			
	Known Conc:		100.00000			
WG1859720-3 T; 70783.1 DUP	1	11	2.81021		3.00	
WG1859720-4 T; 70783.1 MS	1	12	8.86067		3.00	
L2370783-02 T	1	13	0.53996		3.00	
L2370783-03 T	1	14	0.13868		3.00	
L2370783-04 T	1	15	0.18358		3.00	
L2370783-05 T	1	16	0.24807		3.00	
L2370783-06 T	1	17	3.08762		3.00	
L2370783-07 T	1	18	0.30015		3.00	
L2370783-08 T	1	19	0.76186		3.00	
L2370783-10 T	1	20	0.30997		3.00	
CCV 0.4000	1	S6	0.40276			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.87056			
	Known Conc:		100.00000			
CCB	1	S10	0.02708			
	Known Conc:		100.00000			

81%

Channel 2 (Ammonia High) - Current View

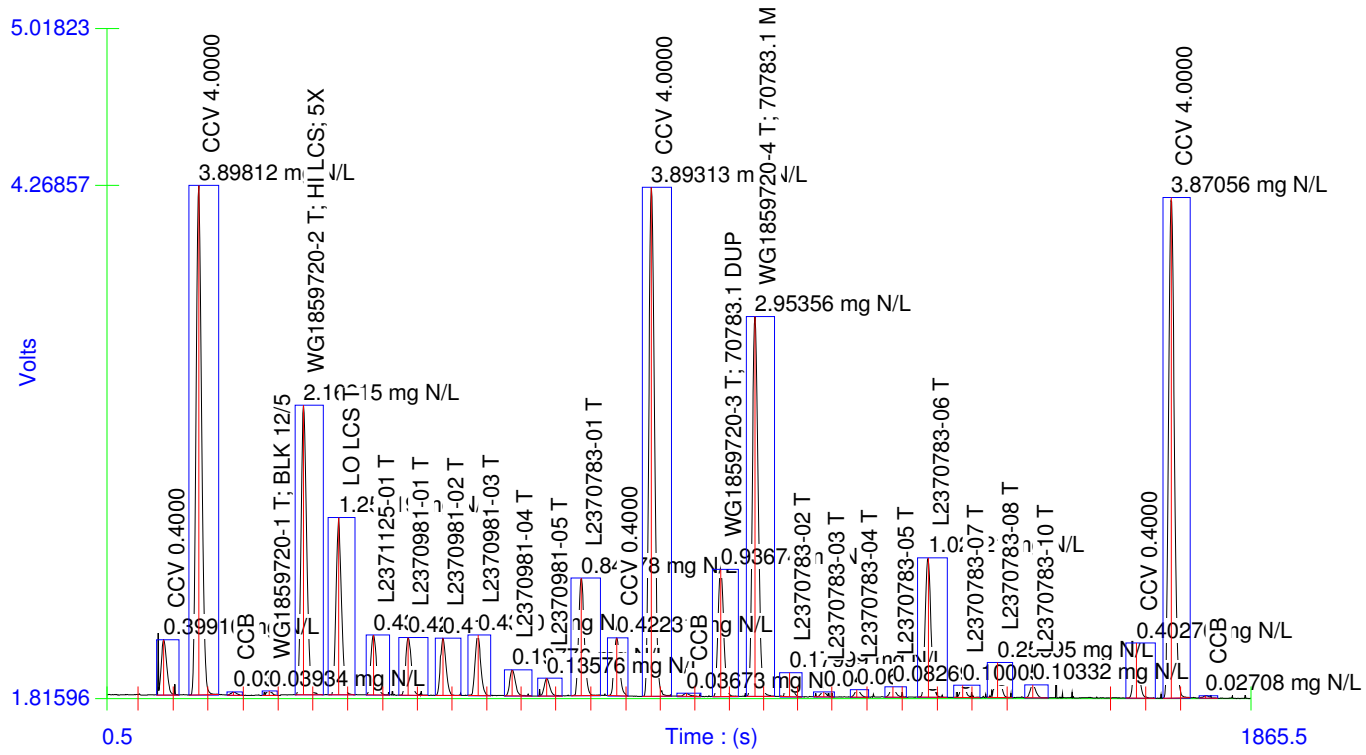
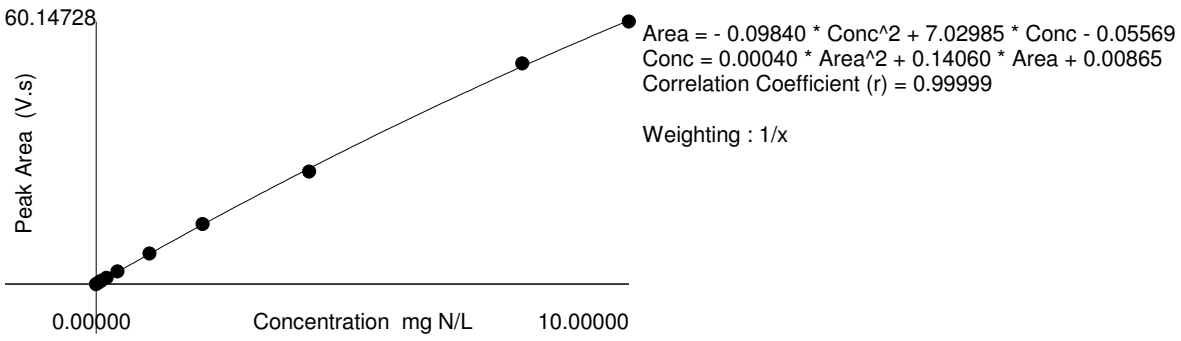


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_12-5-2023_07-31-25PM.OMN Created: 12/5/2023 7:31:25 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_07-31-25PM.OMN Last Modified: 12/5/2023 7:59:15 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
	CCV 0.4000	1	S6	0.38385				TRAY I
			Known Conc:	100.00000				
			Calibration:	Table/Fig. : 1				
	CCV 4.0000	1	S3	3.85232				
			Known Conc:	100.00000				
	CCB	1	S10	0.02863				
			Known Conc:	100.00000				
	WG1859275-1 T; BLK 12/4	1	1	0.02667				
	WG1859275-2 T; HI LCS; 5X	1	2	39.34760		15.00		98%
	LO LCS T	1	3	3.66799		3.00		
	L2370634-04 T	1	4	26.72749		6.00		
	L2370634-05 T	1	5	4.65852		3.00		
	L2370585-01 T	1	6	1.77606		3.00		
	L2370660-01 T	1	7	0.58407		3.00		
	L2370660-02 T	1	8	3.58560		3.00		
	L2370660-03 T	1	9	0.78056		3.00		
	L2370660-04 T	1	10	1.16278		3.00		
	CCV 0.4000	1	S6	0.40732				
			Known Conc:	100.00000				
	CCV 4.0000	1	S3	3.86867				
			Known Conc:	100.00000				
	CCB	1	S10	0.02899				
			Known Conc:	100.00000				
	L2370660-05 T	1	11	23.86121		3.00		
	L2370660-06 T	1	12	1.03162		3.00		
	WG1859275-4 T; 70660.6 MS	1	13	7.62587		3.00		
	WG1859275-3 T; 70660.6 DUP	1	14	0.80688		3.00		
X	L2370660-07 T	1	15	86.50538		6.00		
X	L2370660-08 T	1	16	59.20663		3.00		
X	L2370660-09 T	1	17	1.76654		3.00		
	L2370660-10 T	1	18	0.68684		3.00		
	L2370660-11 T	1	19	0.84504		3.00		
	L2370660-07 T; 10X	1	20	111.32317		60.00		
X	CCV 0.4000	1	S6	0.44172				RERUN OK
			Known Conc:	100.00000				

Channel 2 (Ammonia High) - Current View

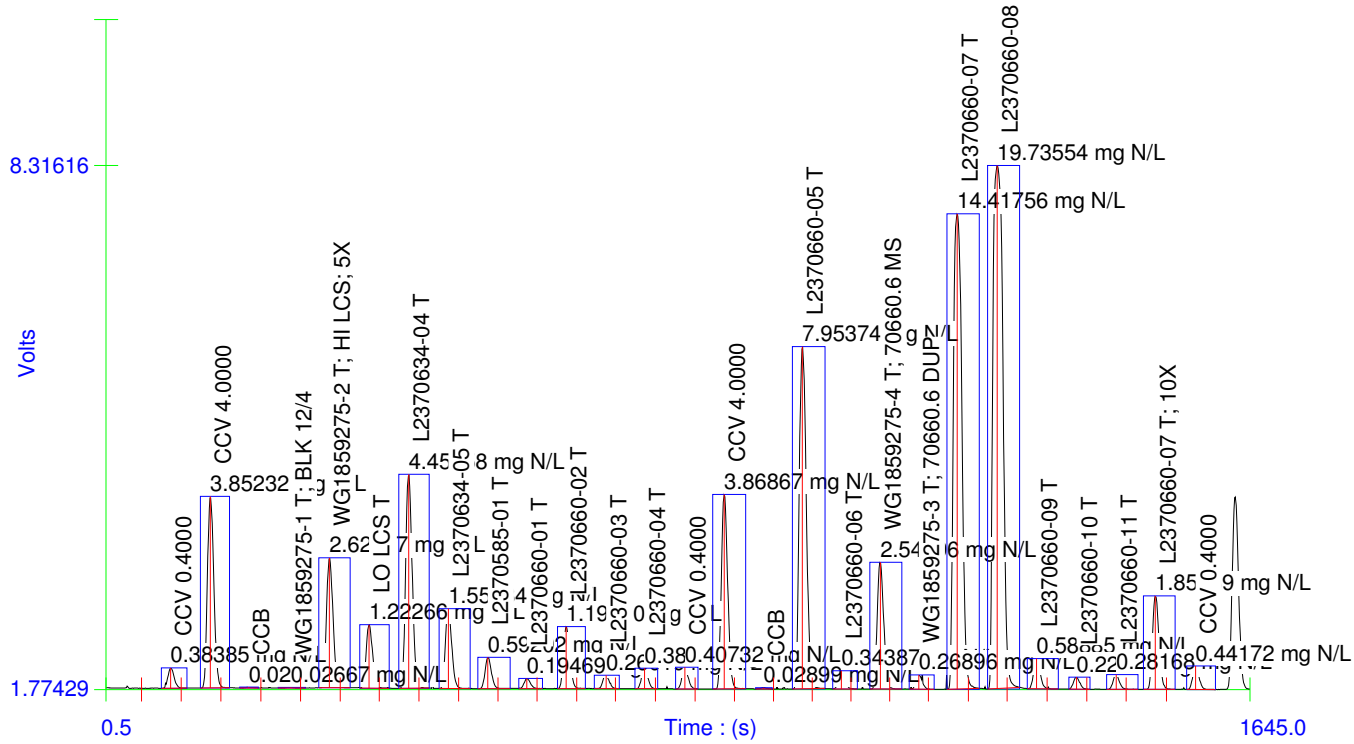
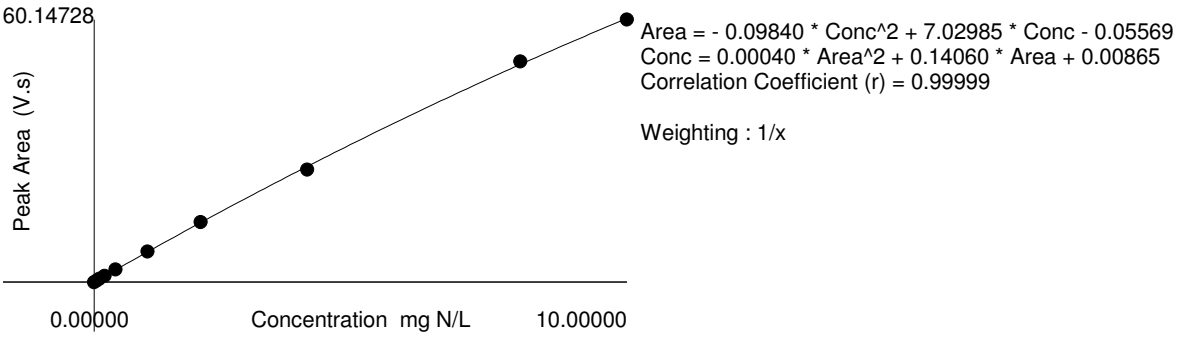


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 12/6/2023

Original Run Filename: OM_12-5-2023_07-59-51PM.OMN Created: 12/5/2023 7:59:51 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_07-59-51PM.OMN Last Modified: 12/5/2023 8:11:57 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY I

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40691			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.88341			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03632			
	Known Conc:		100.00000			
L2370660-08 T; 10X	1	21	105.47603		30.00	
L2370660-09 T	1	22	0.61512		3.00	
CCV 0.4000	1	S6	0.40850			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.89588			
	Known Conc:		100.00000			
CCB	1	S10	0.03548			
	Known Conc:		100.00000			

Channel 2 (Ammonia High) - Current View

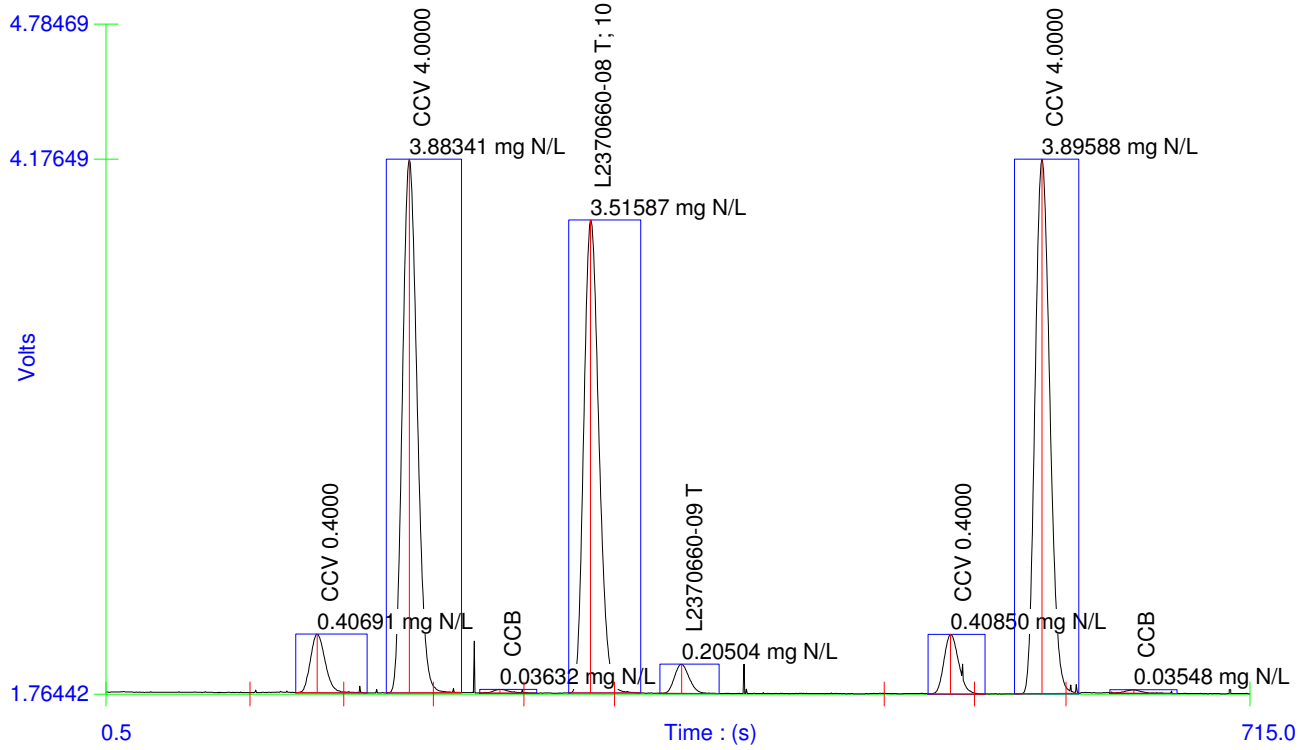
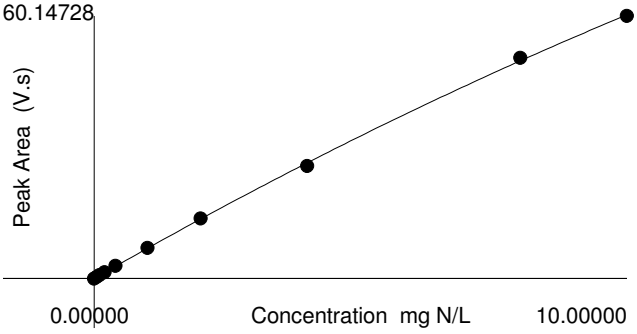


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Area = - 0.09840 * Conc^2 + 7.02985 * Conc - 0.05569
Conc = 0.00040 * Area^2 + 0.14060 * Area + 0.00865
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Original Run Filename: OM_12-5-2023_08-13-22PM.OMN Created: 12/5/2023 8:13:22 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_08-13-22PM.OMN Last Modified: 12/5/2023 8:39:55 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY J

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39728			
		Known Conc:	100.00000			
		Calibration:	Table/Fig. : 1			
CCV 4.0000	1	S3	3.85908			
		Known Conc:	100.00000			
CCB	1	S10	0.03989			
		Known Conc:	100.00000			
WGF1859335-1; BLK 12/4	1	1	0.03731		1.50	
WG1859335-2; HI LCS; 5X	1	2	19.19256		7.50	
LO LCS	1	3	1.84635		1.50	
L2370759-01	1	4	0.38442		1.50	
L2370759-02	1	5	0.35492		1.50	
L2370763-01	1	6	0.32811		1.50	
L2370764-01	1	7	0.37053		1.50	
L2370766-01	1	8	0.25563		1.50	
L2370767-01	1	9	0.08622		1.50	
L2370768-01	1	10	0.45360		1.50	
CCV 0.4000	1	S6	0.39715			
		Known Conc:	100.00000			
CCV 4.0000	1	S3	3.87619			
		Known Conc:	100.00000			
CCB	1	S10	0.03325			
		Known Conc:	100.00000			
L2370768-02	1	11	0.30015		1.50	
L2370769-01	1	12	0.28436		1.50	
L2370770-01	1	13	0.33040		1.50	
WG1859335-4; 70770.1 MS	1	14	7.97483		3.00	
WG1859335-3; 70770.1 DUP	1	15	0.52519		3.00	
CCV 0.4000	1	S6	0.40041			
		Known Conc:	100.00000			
CCV 4.0000	1	S3	3.83290			
		Known Conc:	100.00000			
CCB	1	S10	0.03557			
		Known Conc:	100.00000			

96%

Author: A1WETCHEMINSTRUMENT Date : 12/6/2023

Channel 2 (Ammonia High) - Current View

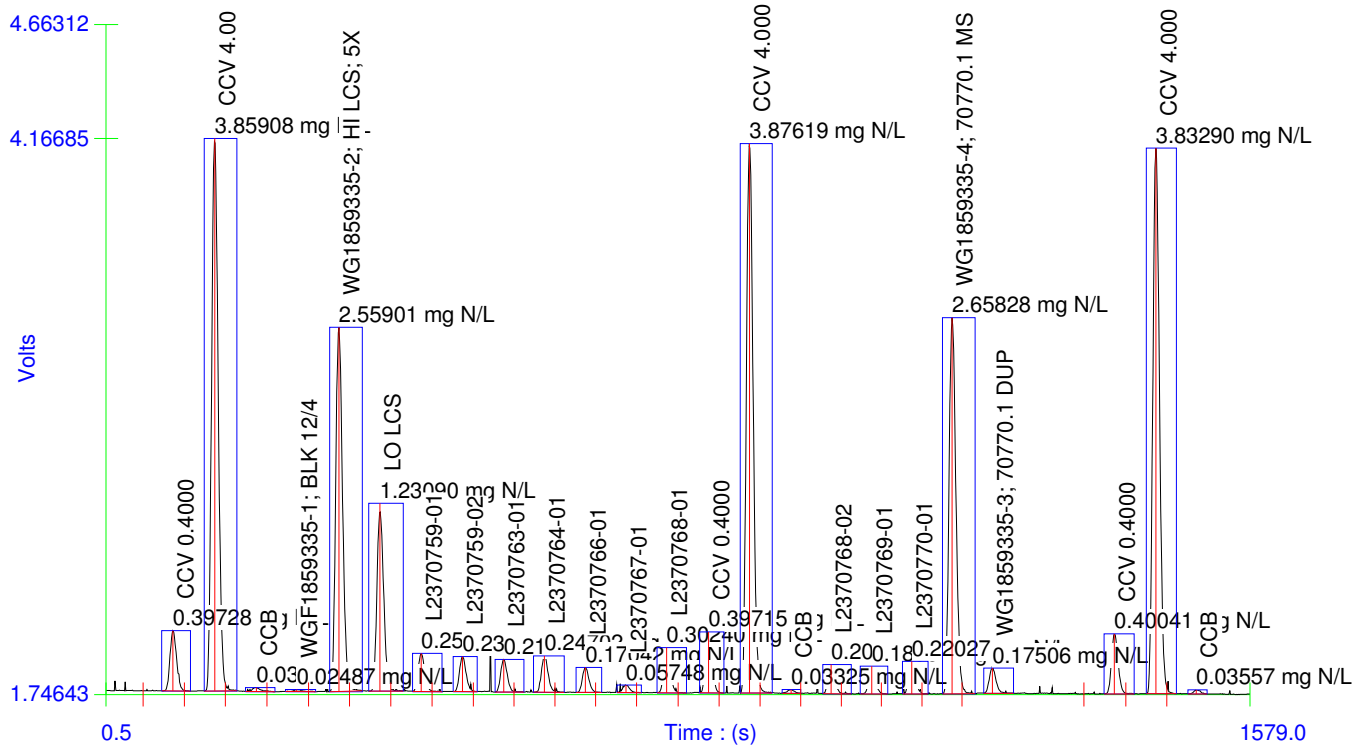
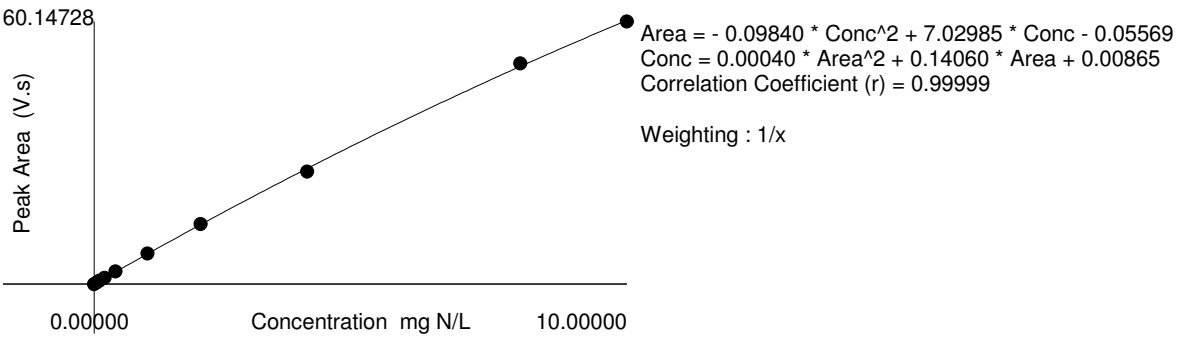


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



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Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_09-11-03PM.OMN Last Modified: 12/5/2023 9:38:18 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	TRAY K
CCV 0.4000	1	S6	0.40005				
		Known Conc:	100.00000				
		Calibration:	Table/Fig. : 1				
CCV 4.0000	1	S3	3.89109				
		Known Conc:	100.00000				
CCB	1	S10	0.02199				
		Known Conc:	100.00000				
WG1859718-1; BLK 12/5	1	1	0.05066		1.50		
WG1859718-2; HI LCS; 5X	1	2	18.78065		7.50		94%
LO LCS	1	3	1.72214		1.50		
L2371097-06	1	4	0.06896		1.50		
L2370783-01	1	5	2.31274		1.50		
WG1859718-4; 70783.1 MS	1	6	7.05478		1.50		
WG1859718-3; 70783.1 DUP	1	7	2.50249		1.50		
L2370783-02	1	8	0.08389		1.50		
L2370783-03	1	9	0.04809		1.50		
L2370783-04	1	10	0.07330		1.50		
CCV 0.4000	1	S6	0.39924				
		Known Conc:	100.00000				
CCV 4.0000	1	S3	3.88810				
		Known Conc:	100.00000				
CCB	1	S10	0.02568				
		Known Conc:	100.00000				
L2370783-05	1	11	0.03902		1.50		
L2370783-06	1	12	2.68097		1.50		
L2370783-07	1	13	0.07039		1.50		
L2370783-08	1	14	0.03833		1.50		
L2370783-10	1	15	0.06274		1.50		
CCV 0.4000	1	S6	0.39711				
		Known Conc:	100.00000				
CCV 4.0000	1	S3	3.87683				
		Known Conc:	100.00000				
CCB	1	S10	0.02873				
		Known Conc:	100.00000				

Channel 2 (Ammonia High) - Current View

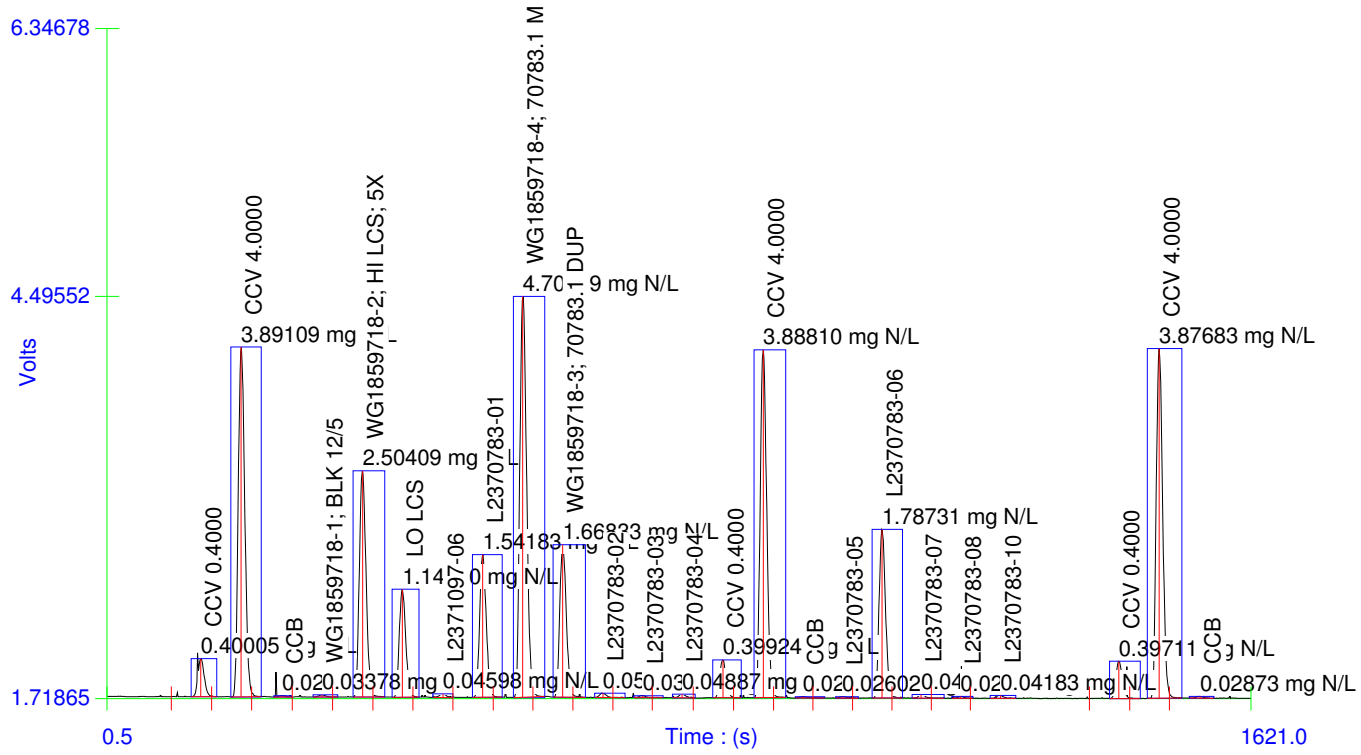
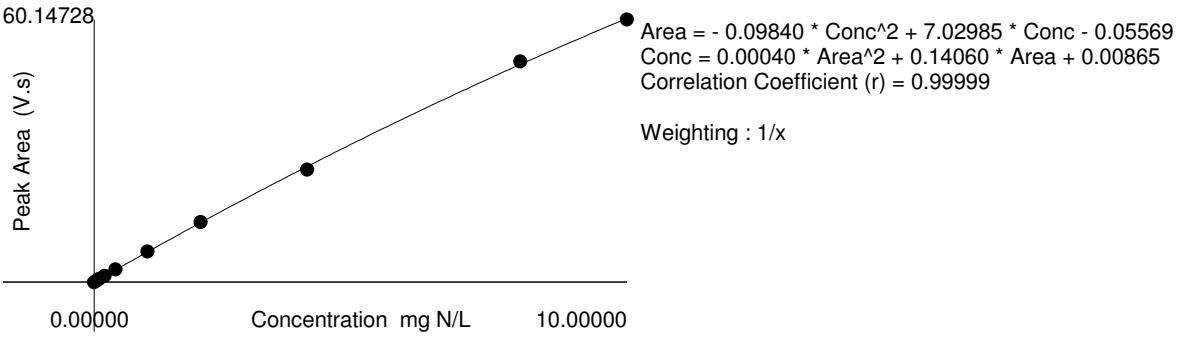


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



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Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_09-38-53PM.OMN Last Modified: 12/5/2023 10:21:31 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
	CCV 0.4000	1	S6	0.39380				TRAY L
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCV 4.0000	1	S3	3.84815				
		Known Conc:		100.00000				
	CCB	1	S10	0.03201				
		Known Conc:		100.00000				
	WG1859181-1; BLK 12/3	1	1	0.05782		1.50		
	WG1859181-2; HI LCS; 5X	1	2	18.33216		7.50		92%
	LO LCS	1	3	1.63847		1.50		
	L2370660-11	1	4	0.06184		1.50		
	L2370660-12	1	5	0.05693		1.50		
	L2370660-13	1	6	0.27259		1.50		
	L2370660-14	1	7	0.05461		3.00		
	L2370660-15	1	8	0.05277		1.50		
X	L2370660-16	1	9	100.68634		7.50		
X	L2370484-01	1	10	0.45078		1.50		
	CCV 0.4000	1	S6	0.42308				
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.84301				
		Known Conc:		100.00000				
	CCB	1	S10	0.03151				
		Known Conc:		100.00000				
	L2370484-02	1	11	0.07067		1.50		
	L2370689-01	1	12	0.03721		1.50		
	L2370689-02	1	13	0.04762		1.50		
	L2370689-03	1	14	0.27954		1.50		
	L2370689-04	1	15	1.38870		1.50		
	L2370689-05	1	16	0.06149		1.50		
	L2370780-01	1	17	0.04784		1.50		
	L2370780-02	1	18	0.03476		1.50		
	L2370780-03	1	19	0.03742		1.50		
	L2370780-04	1	20	3.71203		1.50		
	CCV 0.4000	1	S6	0.42168				
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.78062				
		Known Conc:		100.00000				
	CCB	1	S10	0.02789				
		Known Conc:		100.00000				
	L2370780-05	1	21	0.24468		1.50		
	L2370780-06	1	22	1.88046		1.50		
	WG1859181-4; 70780.6 MS	1	23	5.69966		1.50		
	WG1859181-3; 70780.6 DUP	1	24	2.21670		1.50		
	L2370780-07	1	25	1.28212		1.50		
	WG1859181-8; 70780.7 MS	1	26	5.01661		1.50		
	WG1859181-7; 70780.7 DUP	1	27	1.51426		1.50		
	L2370660-16; 10X	1	28	134.14034		75.00		
	L2370484-01	1	29	0.11217		1.50		
	CCV 0.4000	1	S6	0.39822				
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.80780				
		Known Conc:		100.00000				
	CCB	1	S10	0.02913				
		Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

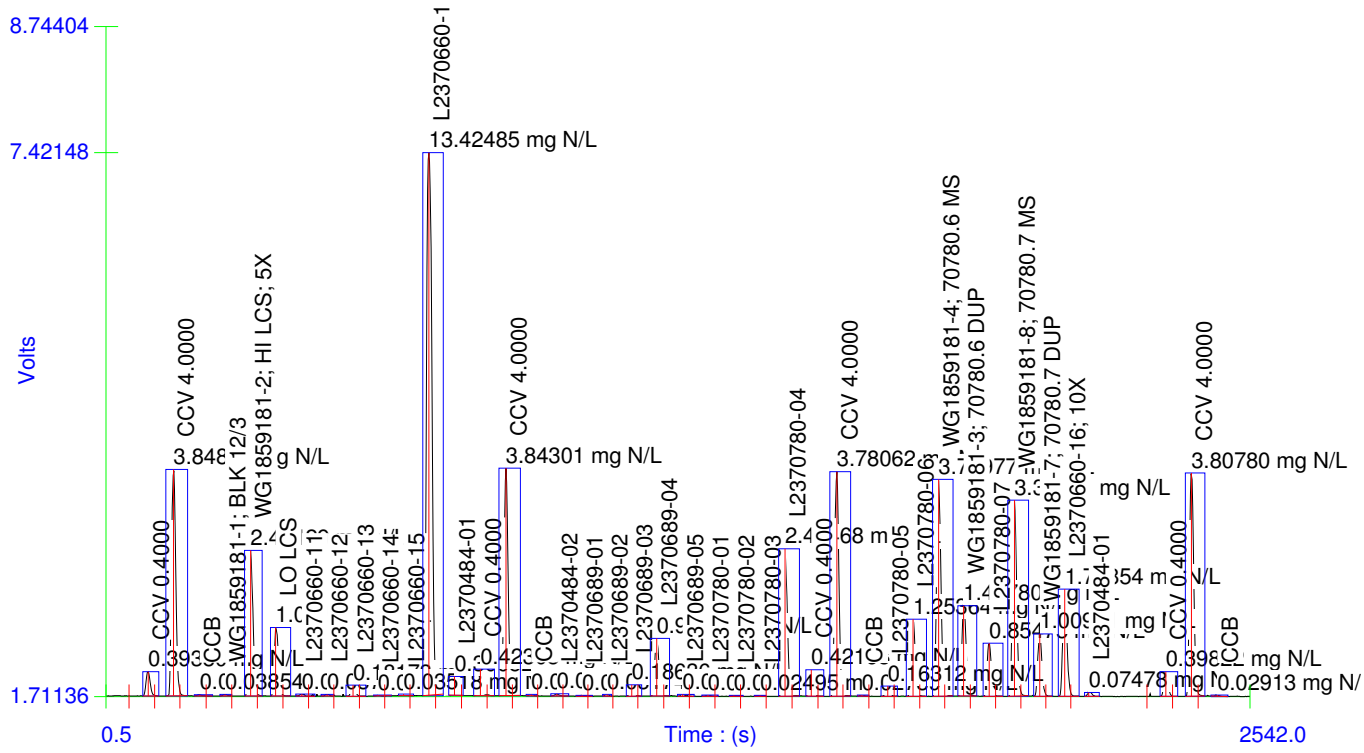
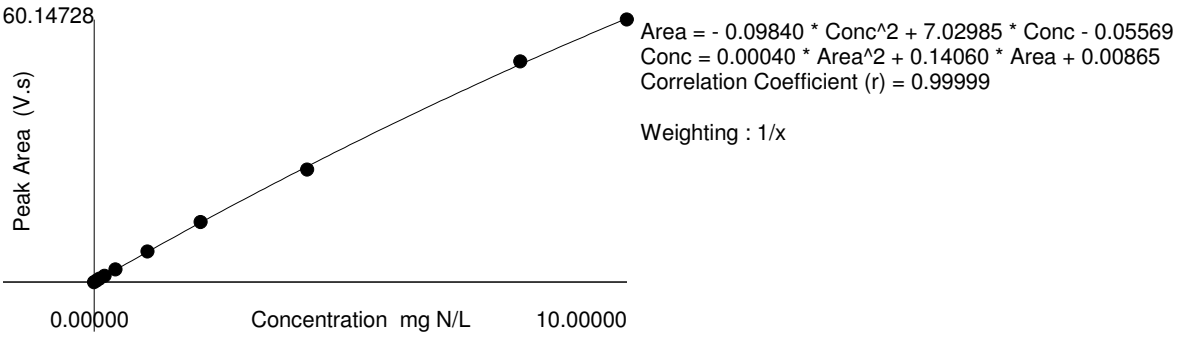


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2370783-01		
Matrix Spike	: WG1859720-4	**MS Analysis Date**	: 12/05/23 19:00
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Nitrogen, Total Kjeldahl	2.55	8	8.86	79					77-111	24

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2370783-01	**Analysis Date**	: 12/05/23 18:55
Dup Sample ID	: WG1859720-3	**DUP Analysis Date**	: 12/05/23 18:59

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	2.55	2.81	10	24

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1859720-2	**LCS Analysis Date**	: 12/05/23 18:48
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Total Kjeldahl	**40.0**	**32.5**	**81.**					**78-122**	**24**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	4500NH3-H	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Total Kjeldahl	NONE	0.3	0.066	mg/l	78-122		77-111	24	24	351.1	28 days	1 - Plastic 500ml H2SO4 preserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Total Kjeldahl	NONE	150	31.5	mg/kg	81-115	26	43-160	26	26	4500NH3-H	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

TKN-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

TITLE NH3 12/5/23 KEP

Project No. _____

Book No. _____ Co

From Page No.

Tray A (08-38-45 AM)
prep 12/2/23 @ 20:42

1	Hi FCV 8.0	
2	Lo FCV 1.0	
3	FCB	
4	WG1858991-1T Blk soil	(0.1225)
5	-2T; LCS Hi, 5x	(0.1429)
6	LCS Lo T	(0.1361)
7	69985-01T	(0.1191)
8	70506-01T	(0.1365)
9	-01T MS	(0.1129)
10	-01T Dup	(0.1391)
11	70544-01T	(0.1063)

KEP

Tray B (09-13-55AM)
prep 12/3/23 @ 8:01

1	WG1859068-1 Blk
2	-2; LCS Hi, 5x
3	LCS Lo
4	70311-02
5	-02 MS
6	-02 Dup
7	-04
8	-06

Tray C (09-34-33AM)
prep 12/3/23 @ 7:55

1	WG1859067-1 Blk
2	-2; LCS Hi,
3	LCS Lo
4	70323-06
5	-07
6	-08
7	-09
8	-10
9	-10 MS
10	-10 Dup
11	-11
12	-12
13	70316-01 (5x)
14	-02
15	70585-01

KEP

Tray D (10-02-42AM)
prep 12/3/23 @ 8:11

1	WG1859069-1 Blk
2	-2, LCS Hi,
3	LCS Lo
4	70342-04
5	70348-04
6	70348-08
7	-12
8	-12 MS
9	-12 Dup

Date: 12/5/23
Sodium Phenolate: 12/1/23 R-3947
Sodium Hypochlorate: 12/1/23 stop+shop
Sodium Nitropruisside: 12/1/23 R-3619
Borric Acid Soln.: 12/1/23 R-4019
ICV 1.0:
ICV 8.0: 11/27/23 WC-3368
Cal. Std: 11/28/23 WC-3294
See Front Page for Instructions:

To Page

Witnessed & Understood by me,	Date	Invented by:	D
		Recorded by:	

Project No. _____

ential Book No. _____ TITLE NM3 12/5/23 VOP cont.

age No. ____

by E (10-27-17AM, 10-45-15AM, 11-05-15AM) fig: F (05-03-24Pm)
VOP 12/12/23 @ 8:36 #1 flap 12/3/23 @ 1833

WG185889-1T Blk
-2T, LCS Hi, 5x
LCS Lo T
70229-01T(5x)
-02T
70247-03T ; 10x
-04T ; 10x
-05T
-06T
-07T
70410-01T ; 10x
-02T
70437-01T ; 20x
-02T
70448-01T
-02T
-03T
70466-01T
-01T MS
-01T Dup

1 WG-859177-1 T Blk 12/3
2 WG-859177-2 T; His 1-5x
3 6 wks T
4 70660.12 T
5 .13 T
6 .14 T (2T)
7 .15 T
8 .16 T (5T)
9 70687.3 T
10 .4 T
11 .5 T
12 70780.1 T
13 .2 T
14 .3 T
15 .4 T
16 .5 T
17 .6 T
18 .7 T
19 WG-859177-4 T; 70780.7 MS
20 WG-859177-3 T; 70780.7 Dup

To Page No. ____

ed & Understood by me, | Date | Invented by: | Date

Recorded by:

From Page No. 06-11-45PM

tg-G (0557.5PM)
#1 Pup 12/3/23 @1846

1 wv-185980-1T; Blue 12/3
2 wv-185980-2T; Hi vg-T+
3 6 vg T
4 70474.1 T
5 70555.1 T
6 70601.1 T
7 .2 T
8 70607.1T -10+
9 70609.1 T -10+
10 70496.1 T
11 70695.1 T -10+
12 70611.1 T -10+
13 70614.1 T
14 70713.1 T
15 70756.1 T
16 70775.1 T
17 wv-185980-4T; 70775.1 mc)
18 wv-185980-3T; 70775.1 Hp
19 70686.1 T(2T) -10+
20 70692.1T (5T) -10+

05:54:55PM

tg-H (0643-7PM
Pup 12/5/23 @0137

1 wv-185972-1T- Blue 12/5
2 wv-185972-2T; Hi vg T+
3 6 vg T
4 71125.1T
5 70981.1T
6 .2T
7 .3T
8 .4T
9 .5T
10 70783.1T
11 wv-185972-3T; 70783.1Hp
12 wv-185972-4T; 70783.1 mc)
13 70783.2T
14 .3T
15 .4T
16 .5T
17 .6T
18 .7T
19 .8T
20 10T
~~.10T~~

To Page

Witnessed & Understood by me,
Date
Invented by:
Recorded by:

fg. I (07-31-23 PM)
Bkg 12/4/23 @0826

1 wh 185927-1 T. Blk 12/4
2 wh 185927-2 T; Hi wg-5 x
3 6 wg T
4 70634.4 T (2 x)
5 .5 T
6 70585.1 T
7 70660.1 T
8 .2 T
9 .3 T
10 .4 T
11 .5 T
12 .6 T
13 wh 185927-4 T; 70660.6 ms
14 wh 185927-3 T; 70660.6 bg
15 70660.7 T (20) -10 x
16 .8 T -10 x
17 .9 T
18 .10 T
19 .11 T
20

→ 07-59-51 PM

fg. J (08-13-22 PM)
Bkg 12/4/23 @ 1320

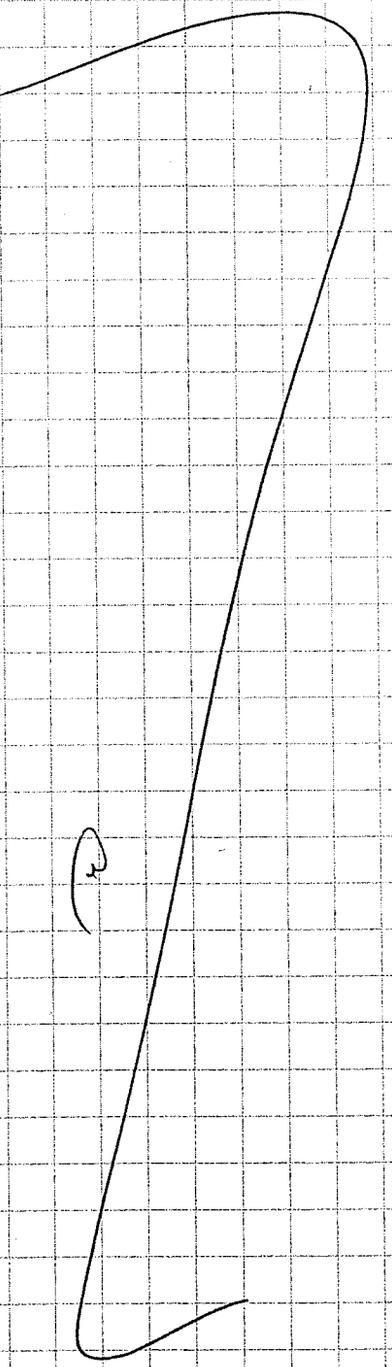
1 wh 185935-1; Blk 12/4
2 wh 185935-2; Hi wg-5 x
3 6 wg
4 70759.1
5 .2
6 70763.1
7 70764.1
8 70766.1
9 70767.1
10 70768.1
11 .2
12 70769.1
13 70770.1
14 wh 185935-4; 70770.1 ms (2 x)
15 wh 185935-3; 70770.1 bg (2 x)

fg. K (09-11-63 PM)
Bkg 12/5/23 @0147
1 wh 185978-1; Blk 12/5
2 wh 185978-2; Hi wg-7 x
3 6 wg
4 70097.6
5 70783.1
6 wh 185978-4; 70783.1 ms
7 wh 185978-3; 70783.1 bg
8 70785.2
9 .3
10 .4
11 .5
12 .6
13 .7
14 .8
15 .10

To Page No. ____

#1 tfy-L (09-8-53pm)
pmp 12/3/23 @2210

1 wv-185181-1-thru 12/3
2 wv-185181-2; A-05-5 t
3 6 wg
4 70660.11
5 .12
6 .13
7 .14(2t)
8 .15
9 .16(5t) -18 t
10 70684.1
11 .2
12 70687.1
13 .2
14 .3
15 .4
16 .5
17 70780.1
18 .2
19 .3
20 .4
21 .5
22 .6
23 wv-185181-4; 70780.6 ms
24 wv-185181-3; 70780.6 Dg
25 70780.7
26 wv-185181-8; 70780.7 ms
27 wv-185181-7; 70780.7 Dg



Witnessed & Understood by me,	Date	Invented by:	Da
		Recorded by:	

Sample Preparation

From Page No. ____

WG1859720

Sample	Vol.	Dil.	Final vol.
	50mL	1X	150mL
Blank			
Low			
High			
L2370783-01 PA			
-01 Dup			
-01 MS			
-02			
-03			
-04			
-05			
-06			
-07			
-08			
-10			
0981-01			
-02			
-03			
-04			
-05			
1125-01			

TKN PREP:

TKN-120423 -200PPM LCS
TKN-111223 -200PPM MS

TKN-120123 - A -ALKALI
TKN-112123 - B -DIGESTION

TKN-102223 -H2SO4 6N
TKN-112923 -HgSO4

12/05/23 @ 01:37 ERB

To Page No. ____

Witnessed & Understood by me, | Date | Invented by: | Date | Recorded by:

Ammonia Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 21:19
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320231205-K	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	2.31	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 21:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320231205-K	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.083	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 21:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320231205-K	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.048	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 21:24
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320231205-K	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.073	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 21:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320231205-K	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.039	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 21:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320231205-K	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	2.68	0.075	0.024	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 21:29
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320231205-K	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.070	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 21:30
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320231205-K	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.038	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-10	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP2	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 21:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320231205-K	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.062	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859718-1	**Date Collected**	: NA
Client ID	: WG1859718-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/05/23 21:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320231205-K	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	0.050	0.075	0.024	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859718-3	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1SDUP	**Date Received**	: 11/30/23
Sample Location	:	**Date Analyzed**	: 12/05/23 21:21
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,350.1	**Analyst**	: AT
Lab File ID	: NH320231205-K	**Instrument ID**	: LATCHAT5
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7664-41-7	Nitrogen, Ammonia	2.50	0.075	0.024	

Sample Raw Data

Original Run Filename: OM_12-5-2023_08-38-45AM.OMN Created: 12/5/2023 8:38:45 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_08-38-45AM.OMN Last Modified: 12/5/2023 9:11:22 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY A

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
STD 1	1	S1	10.00000				
STD 2	1	S2	8.00000				
STD 3	1	S3	4.00000				
STD 4	1	S4	2.00000				
STD 5	1	S5	1.00000				
STD 6	1	S6	0.40000				
STD 7	1	S7	0.20000				
STD 8	1	S8	0.10000				
STD 9	1	S9	0.05000				
STD 10	1	S10	0.00000				
CCV 0.4000	1	S6	0.38670				
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCV 4.0000	1	S3	3.86641				
	Known Conc:		100.00000				
CCB	1	S10	0.02284				
	Known Conc:		100.00000				
HI ICV 8.0	1	1	8.06112				101%
LO ICV 1.0	1	2	1.03465				103%
ICB	1	3	0.01731				
WG1858991-1 T	1	4	0.05703			1.00000 g	
WG1858991-2 T	1	5	13653.90527		750.00	0.14290 g	98%
LCS LO T	1	6	1455.05481		150.00	0.13610 g	
L2369985-01 T	1	7	11813.90234		150.00	0.11910 g	
L2370506-01 T	1	8	1234.65100		150.00	0.13650 g	
WG1858991-4 T	1	9	4675.73242		150.00	0.11290 g	
WG1858991-3 T	1	10	1113.10059		150.00	0.13910 g	
CCV 0.4000	1	S6	0.42201				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.95099				
	Known Conc:		100.00000				
CCB	1	S10	0.02561				
	Known Conc:		100.00000				
L2370544-01 T	1	11	14006.46289		150.00	0.10630 g	
CCV 0.4000	1	S6	0.42388				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.93408				
	Known Conc:		100.00000				
CCB	1	S10	0.02518				
	Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Channel 2 (Ammonia High) - Current View

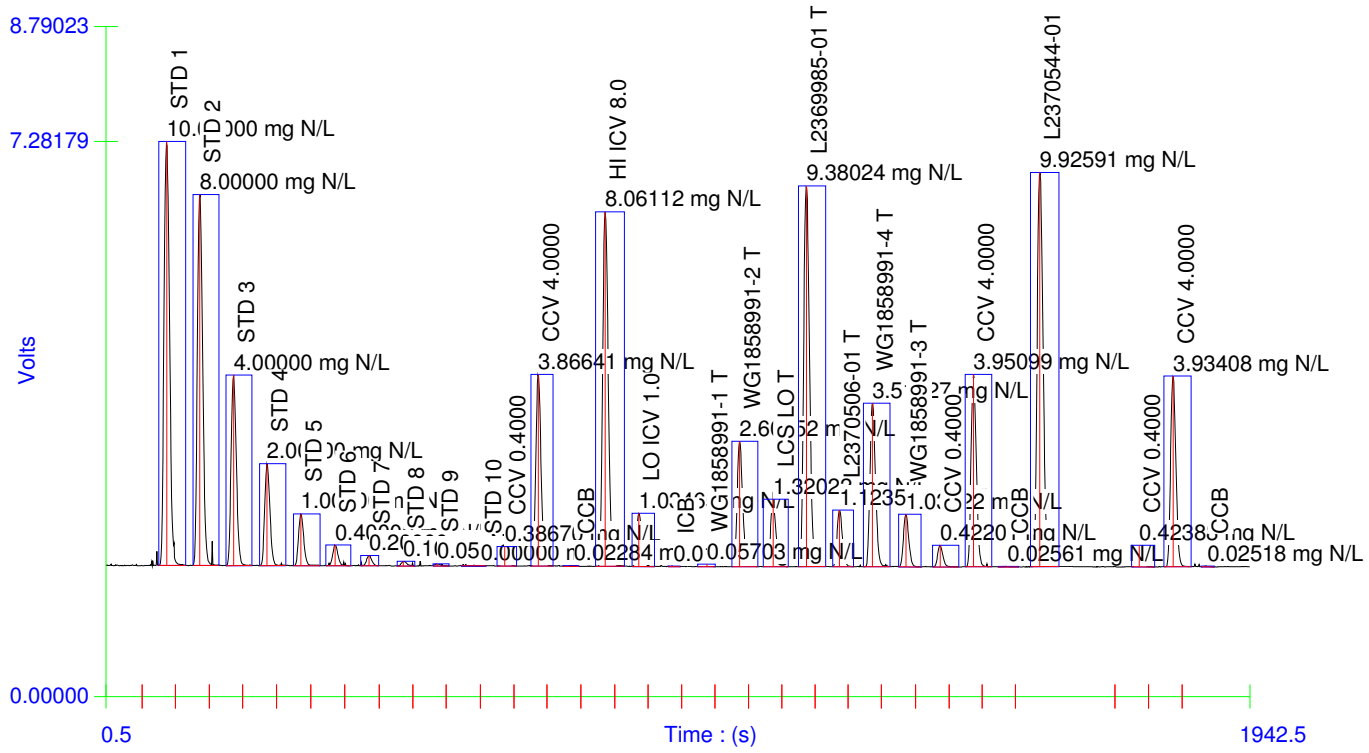
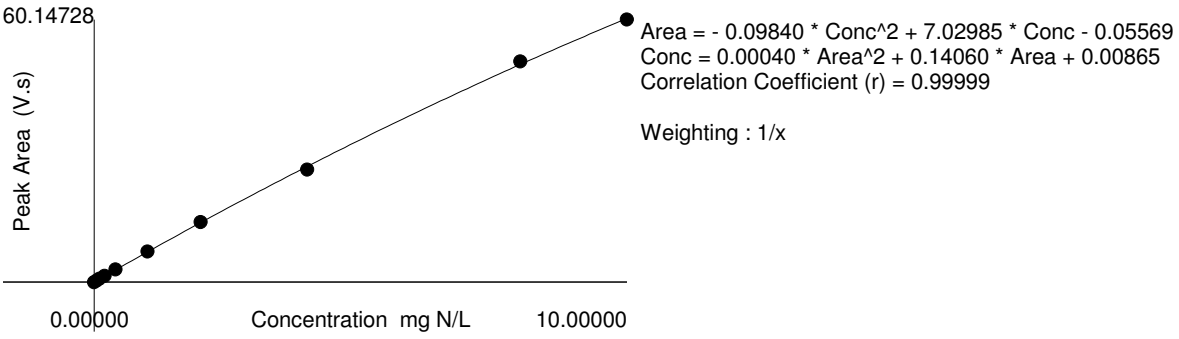


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Original Run Filename: OM_12-5-2023_09-13-55AM.OMN Created: 12/5/2023 9:13:55 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_09-13-55AM.OMN Last Modified: 12/5/2023 9:31:07 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY B

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40206			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.87812			
	Known Conc:		100.00000			
CCB	1	S10	0.02477			
	Known Conc:		100.00000			
WG1859068-1	1	1	0.02136		1.50	
WG1859068-2	1	2	18.39786		7.50	
LCS LO	1	3	1.86083		1.50	
L2370311-02	1	4	0.42923		1.50	
WG1859068-4	1	5	4.09302		1.50	
WG1859068-3	1	6	0.50438		1.50	
L2370311-04	1	7	0.75873		1.50	
L2370311-06	1	8	1.74106		1.50	
CCV 0.4000	1	S6	0.40785			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.89067			
	Known Conc:		100.00000			
CCB	1	S10	0.03097			
	Known Conc:		100.00000			

92%

Channel 2 (Ammonia High) - Current View

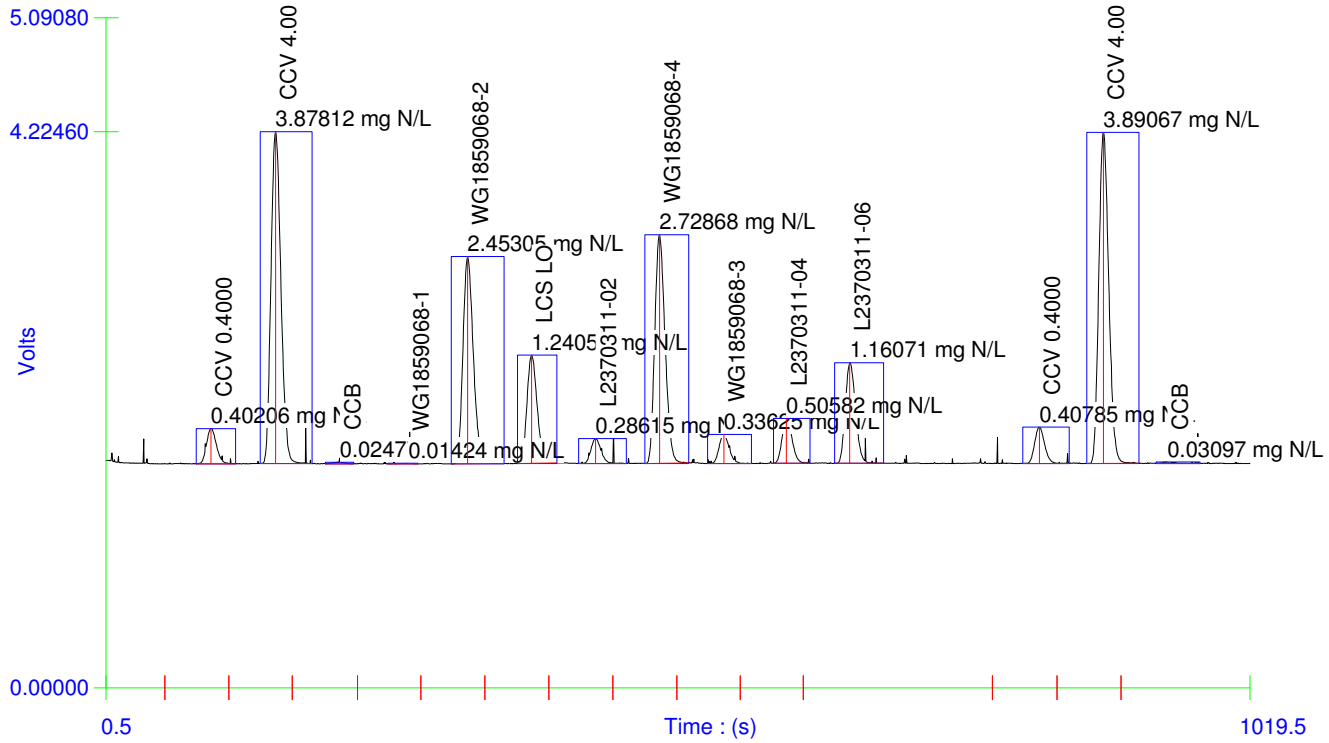
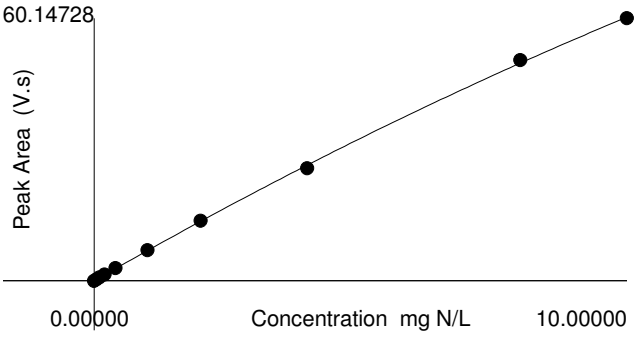


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Area = - 0.09840 * Conc^2 + 7.02985 * Conc - 0.05569
Conc = 0.00040 * Area^2 + 0.14060 * Area + 0.00865
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Original Run Filename: OM_12-5-2023_09-34-33AM.OMN Created: 12/5/2023 9:34:33 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_09-34-33AM.OMN Last Modified: 12/5/2023 10:01:08 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY C

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40222			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.85483			
	Known Conc:		100.00000			
CCB	1	S10	0.01928			
	Known Conc:		100.00000			
WG1859067-1	1	1	0.02659		1.50	
WG1859067-2	1	2	18.62846		7.50	
LCS LO	1	3	1.70452		1.50	
L2370323-06	1	4	0.04123		1.50	
L2370323-07	1	5	0.03582		1.50	
L2370323-08	1	6	8.63197		1.50	
L2370323-09	1	7	0.08829		1.50	
L2370323-10	1	8	0.07097		1.50	
WG1859067-4	1	9	3.61094		1.50	
WG1859067-3	1	10	0.08814		1.50	
CCV 0.4000	1	S6	0.41303			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.89954			
	Known Conc:		100.00000			
CCB	1	S10	0.02922			
	Known Conc:		100.00000			
L2370323-11	1	11	0.02784		1.50	
L2370323-12	1	12	0.18038		1.50	
L2370376-01	1	13	5.90693		7.50	
L2370376-02	1	14	0.04808		1.50	
L2370585-01	1	15	1.32267		1.50	
CCV 0.4000	1	S6	0.40850			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.86172			
	Known Conc:		100.00000			
CCB	1	S10	0.03172			
	Known Conc:		100.00000			

93%

Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Channel 2 (Ammonia High) - Current View

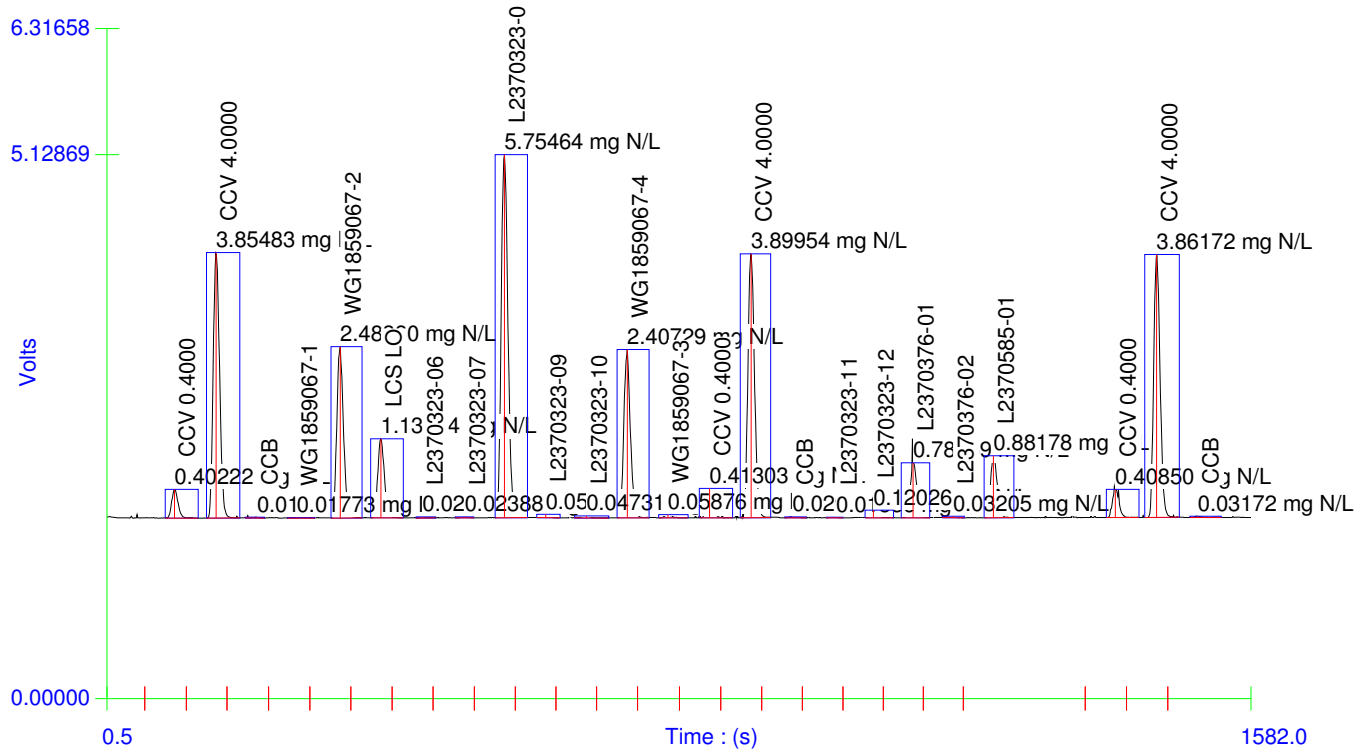
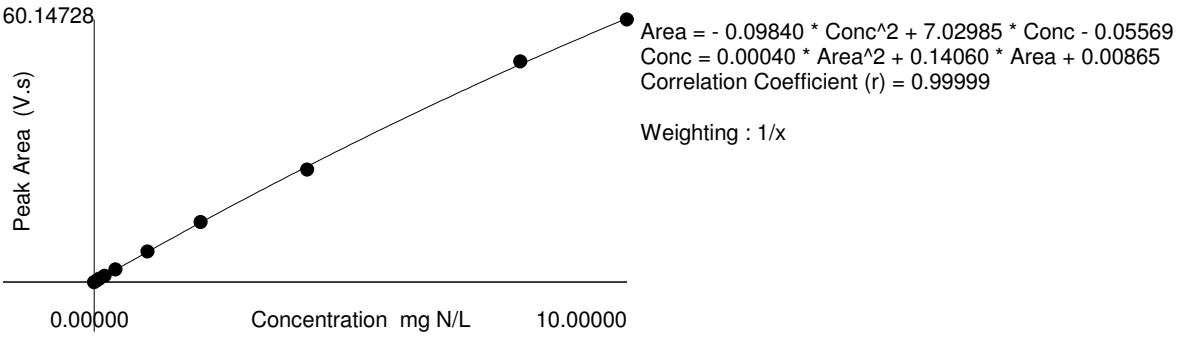


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Original Run Filename: OM_12-5-2023_10-02-42AM.OMN Created: 12/5/2023 10:02:42 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_10-02-42AM.OMN Last Modified: 12/5/2023 10:20:49 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY D

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39517			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.86277			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02635			
	Known Conc:		100.00000			
WG1859069-1	1	1	0.01187		1.50	
WG1859069-2	1	2	19.11189		7.50	
LCS LO	1	3	1.88690		1.50	
L2370342-04	1	4	0.11066		1.50	
L2370348-04	1	5	0.04731		1.50	
L2370348-08	1	6	0.08534		1.50	
L2370348-12	1	7	0.02435		1.50	
WG1859069-4	1	8	3.58217		1.50	
WG1859069-3	1	9	0.06063		1.50	
CCV 0.4000	1	S6	0.41044			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.84586			
	Known Conc:		100.00000			
CCB	1	S10	0.02342			
	Known Conc:		100.00000			

96%

Channel 2 (Ammonia High) - Current View

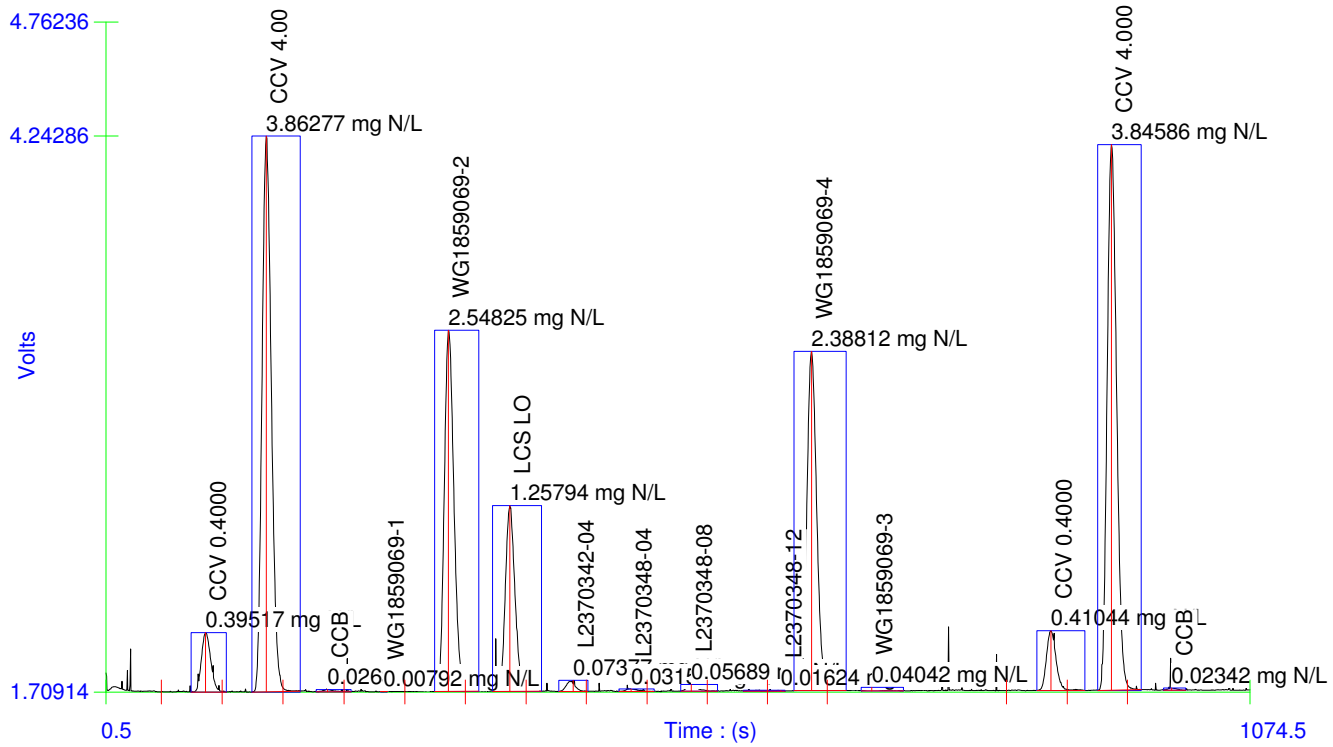
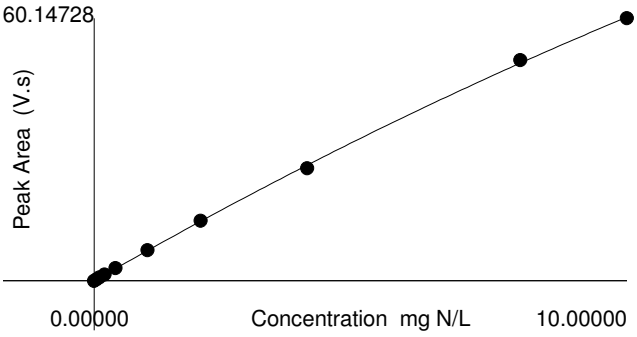


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Area = - 0.09840 * Conc^2 + 7.02985 * Conc - 0.05569
Conc = 0.00040 * Area^2 + 0.14060 * Area + 0.00865
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Original Run Filename: OM_12-5-2023_10-27-17AM.OMN Created: 12/5/2023 10:27:17 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_10-27-17AM.OMN Last Modified: 12/5/2023 10:42:51 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
	CCV 0.4000	1	S6	0.39328				TRAY E
	Known Conc:			100.00000				
	Calibration:			Table/Fig. : 1				
	CCV 4.0000	1	S3	3.87962				
	Known Conc:			100.00000				
	CCB	1	S10	0.02759				
	Known Conc:			100.00000				
	WG1858839-1 T	1	1	0.06891				
	WG1858839-2 T	1	2	40.03909		15.00		100%
	LCS LO T	1	3	4.33121		3.00		
	L2370229-01 T	1	4	11.86272		15.00		
	L2370229-02 T	1	5	0.45798		3.00		
X	L2370247-03 T	1	6	41.52755		3.00		
X	L2370247-04 T	1	7	37.12693		3.00		
X	L2370247-05 T	1	8	22.24977		3.00		
	L2370247-06 T	1	9	15.02120		3.00		
	L2370247-07 T	1	10	8.13218		3.00		
X	CCV 0.4000	1	S6	0.48907				RERUN OK
	Known Conc:			100.00000				

Channel 2 (Ammonia High) - Current View

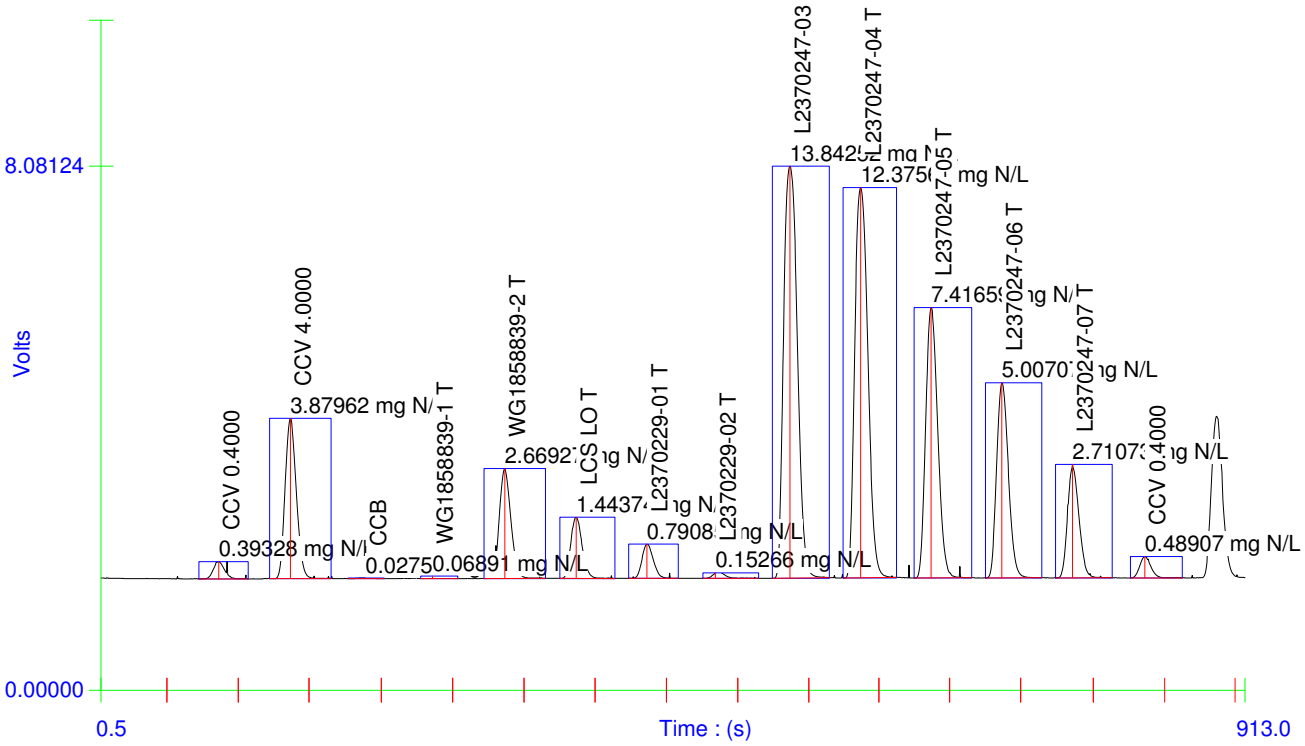
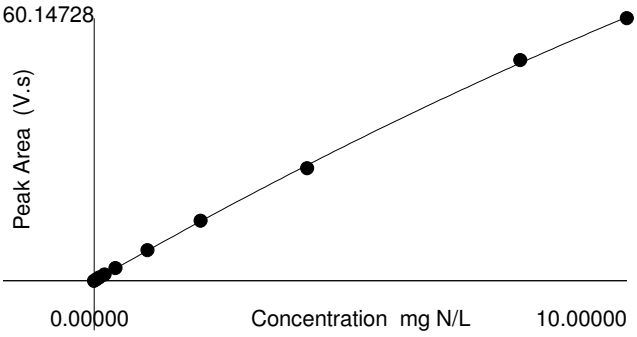


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Area = - 0.09840 * Conc^2 + 7.02985 * Conc - 0.05569
Conc = 0.00040 * Area^2 + 0.14060 * Area + 0.00865
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Original Run Filename: OM_12-5-2023_10-45-15AM.OMN Created: 12/5/2023 10:45:15 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_10-45-15AM.OMN Last Modified: 12/5/2023 11:03:01 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY E

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
	CCV 0.4000	1	S6	0.41076				
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.93207				
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCB	1	S10	0.02785				
		Known Conc:		100.00000				
X	L2370410-01 T	1	11	38.25156		3.00		
X	L2370410-02 T	1	12	4.64853		3.00		
X	L2370437-01 T	1	13	56.69775		3.00		
X	L2370437-02 T	1	14	17.84625		3.00		
	L2370448-01 T	1	15	14.76649		3.00		
	L2370448-02 T	1	16	21.27230		3.00		
	L2370448-03 T	1	17	4.62851		3.00		
	L2370466-01 T	1	18	10.20391		3.00		
	WG1858839-4 T	1	19	15.43637		3.00		
	WG1858839-3 T	1	20	9.75214		3.00		
X	CCV 0.4000	1	S6	0.49679				RERUN OK
		Known Conc:		100.00000				
X	CCV 4.0000	1	S3	3.89567				
		Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

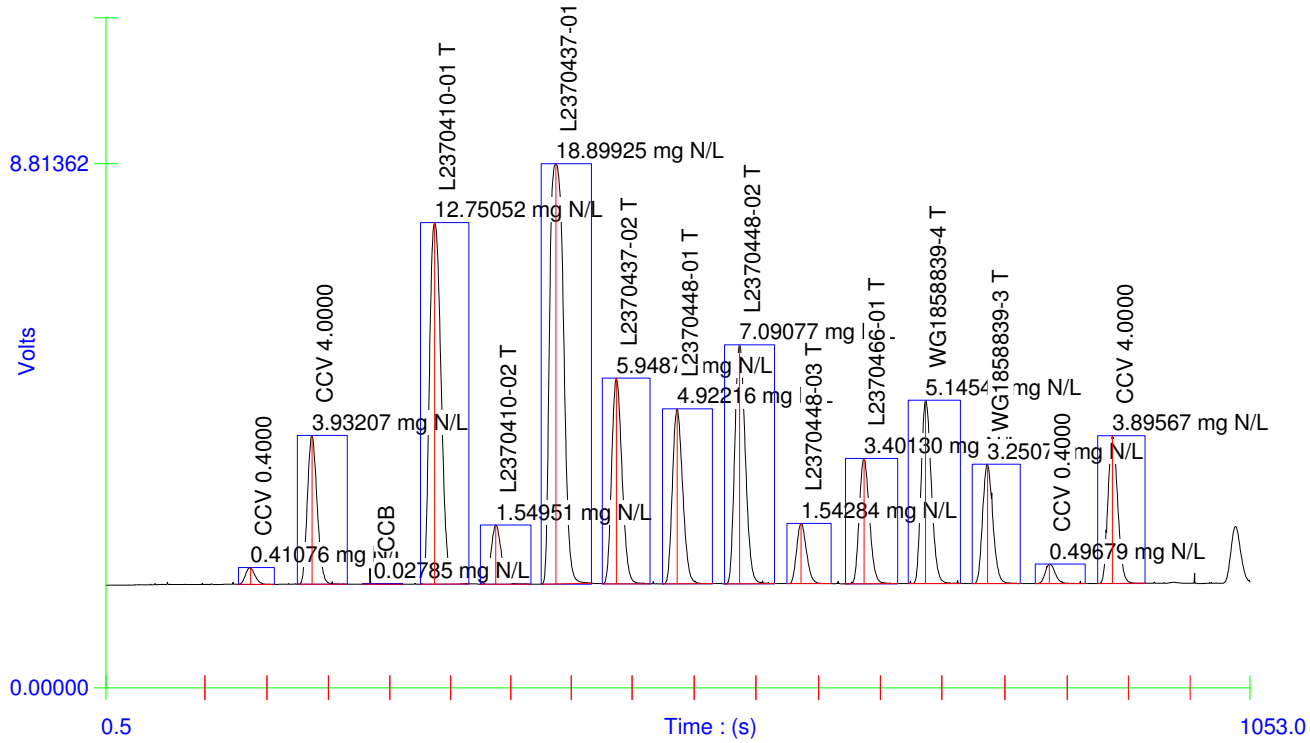
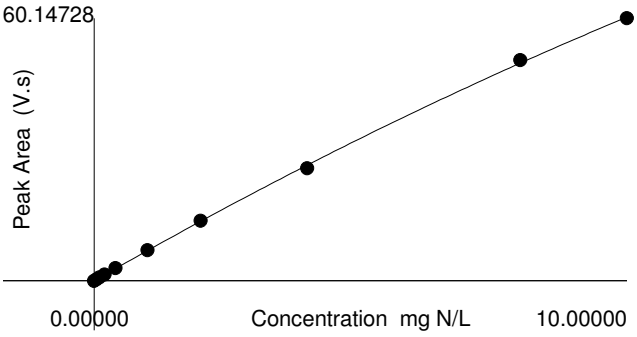


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Area = - 0.09840 * Conc^2 + 7.02985 * Conc - 0.05569
Conc = 0.00040 * Area^2 + 0.14060 * Area + 0.00865
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Author: A1WETCHEMINSTRUMENT Date : 12/5/2023

Original Run Filename: OM_12-5-2023_11-05-15AM.OMN Created: 12/5/2023 11:05:15 AM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_11-05-15AM.OMN Last Modified: 12/5/2023 11:21:25 AM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY E

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.42389			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.05074			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.02687			
	Known Conc:		100.00000			
L2370247-03 T; 10X	1	6	43.33660		30.00	
L2370247-04 T; 10X	1	7	38.34036		30.00	
L2370247-05 T	1	8	21.50766		3.00	
L2370437-01 T; 20X	1	13	82.44704		60.00	
L2370437-02 T	1	14	16.87163		3.00	
L2370410-01 T; 10X	1	11	43.52186		30.00	
L2370410-02 T	1	12	3.97091		3.00	
CCV 0.4000	1	S6	0.42121			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.01565			
	Known Conc:		100.00000			
CCB	1	S10	0.02719			
	Known Conc:		100.00000			

Channel 2 (Ammonia High) - Current View

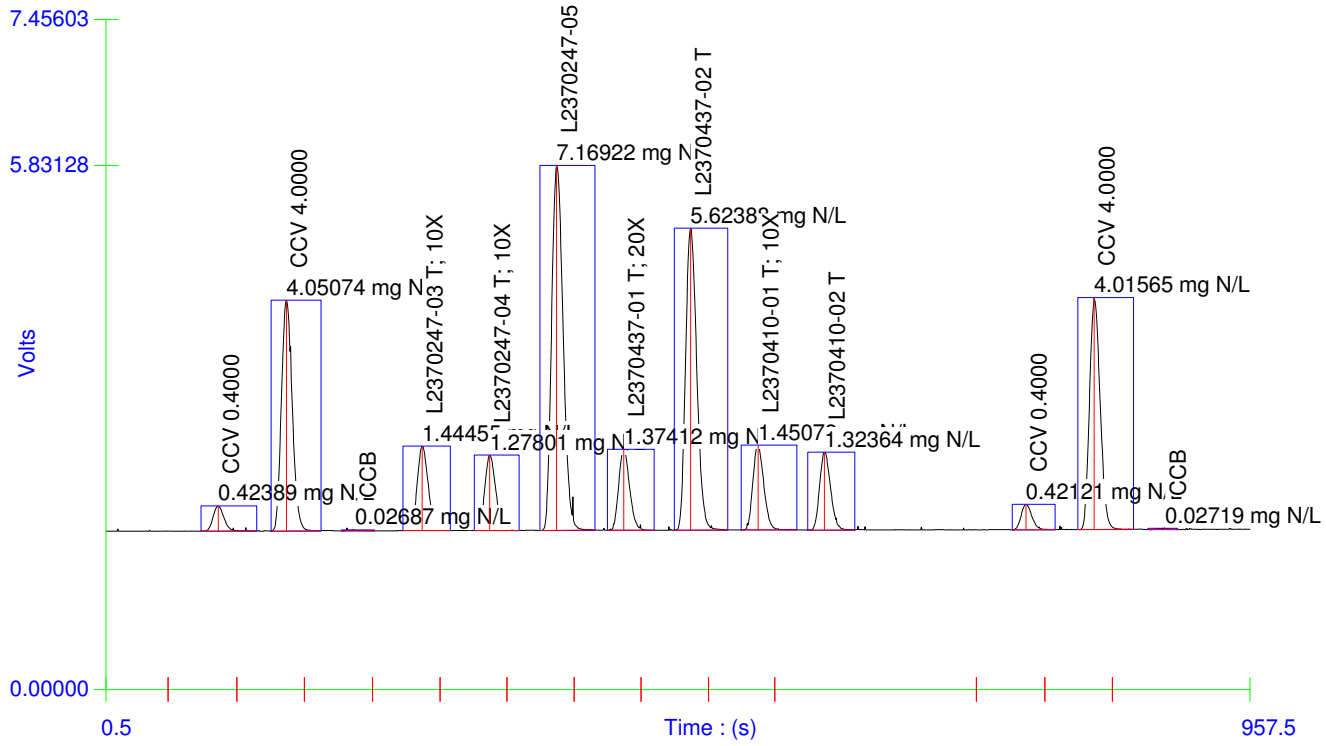
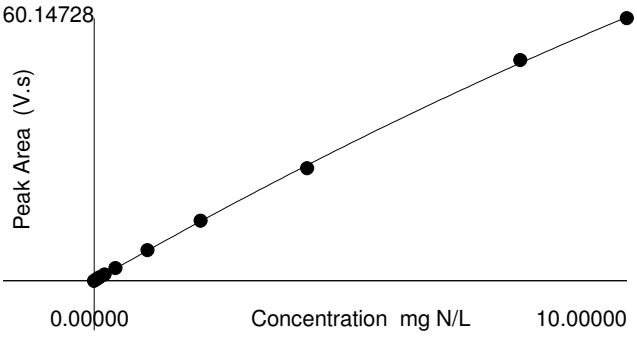


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Area = - 0.09840 * Conc^2 + 7.02985 * Conc - 0.05569
Conc = 0.00040 * Area^2 + 0.14060 * Area + 0.00865
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Original Run Filename: OM_12-5-2023_05-03-24PM.OMN Created: 12/5/2023 5:03:24 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_05-03-24PM.OMN Last Modified: 12/5/2023 5:34:43 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY F

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.37323			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.08978			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.01382			
	Known Conc:		100.00000			
WG1859177-1 T; BLK 12/3	1	1	0.02038			
WG1859177-2 T; HI LCS; 5X	1	2	38.22512		15.00	
LO LCS T	1	3	3.66820		3.00	
L2370660-12 T	1	4	0.47118		3.00	
L2370660-13 T	1	5	0.50800		3.00	
L2370660-14 T	1	6	2.75799		6.00	
L2370660-15 T	1	7	0.58144		3.00	
L2370660-16 T	1	8	109.50554		15.00	
L2370689-03 T	1	9	0.96893		3.00	
L2370689-04 T	1	10	3.00857		3.00	
CCV 0.4000	1	S6	0.42853			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.09991			
	Known Conc:		100.00000			
CCB	1	S10	0.02059			
	Known Conc:		100.00000			
L2370689-05 T	1	11	0.49389		3.00	
L2370780-01 T	1	12	0.11858		3.00	
L2370780-02 T	1	13	0.10947		3.00	
L2370780-03 T	1	14	0.15889		3.00	
L2370780-04 T	1	15	3.87598		3.00	
L2370780-05 T	1	16	0.52376		3.00	
L2370780-06 T	1	17	2.38819		3.00	
L2370780-07 T	1	18	1.75250		3.00	
WG1859177-4 T; 70780.7 MS	1	19	9.50822		3.00	
WG1859177-3 T; 70780.7 DUP	1	20	1.98129		3.00	
CCV 0.4000	1	S6	0.38595			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	4.06868			
	Known Conc:		100.00000			
CCB	1	S10	0.02101			
	Known Conc:		100.00000			

96%

Author: A1WETCHEMINSTRUMENT Date : 12/6/2023

Channel 2 (Ammonia High) - Current View

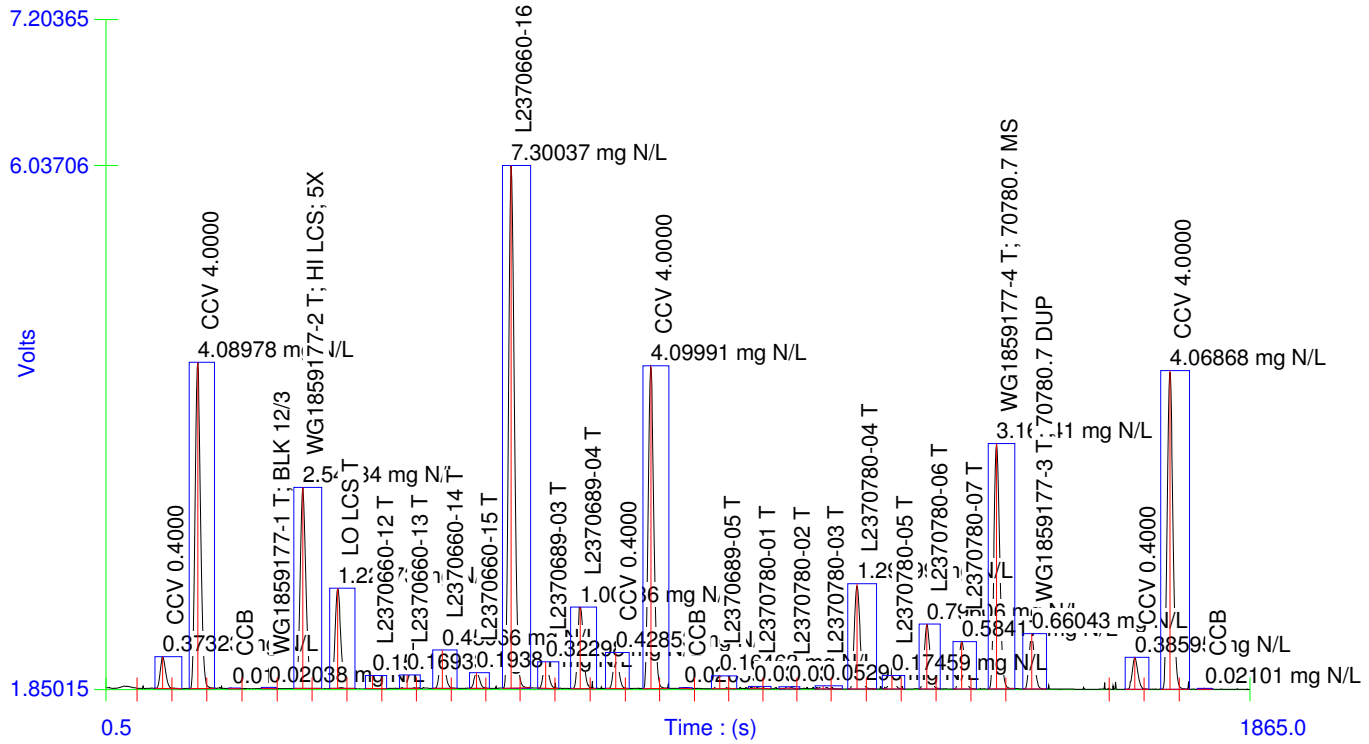
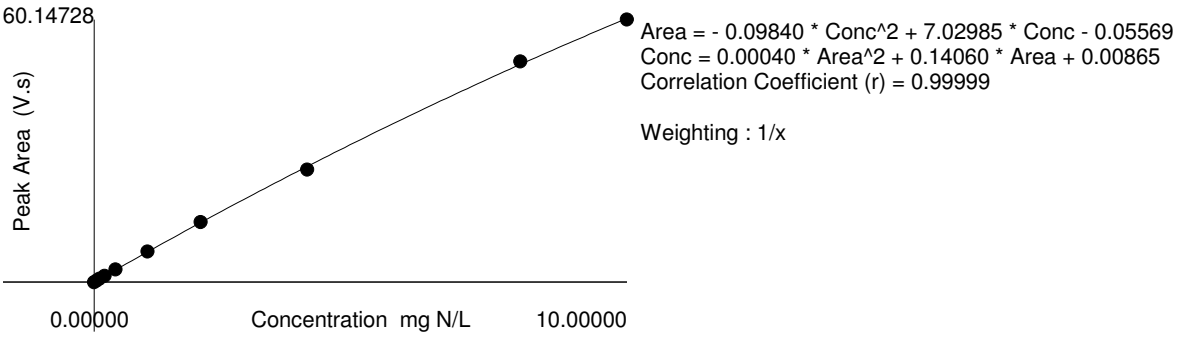


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_12-5-2023_06-11-45PM.OMN Created: 12/5/2023 6:11:45 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_06-11-45PM.OMN Last Modified: 12/5/2023 6:43:05 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY G

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.41492			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.98857			
	Known Conc:		100.00000			
CCB	1	S10	0.04293			
	Known Conc:		100.00000			
WG1859180-1 T; BLK 12/3	1	1	0.03961			
WG1859180-2 T; HI LCS; 5X	1	2	36.93711		15.00	
LO LCS T	1	3	3.97479		3.00	
L2370474-01 T	1	4	3.04906		3.00	
L2370555-01 T	1	5	5.08403		3.00	
L2370601-01 T	1	6	0.27290		3.00	
L2370601-02 T	1	7	0.15524		3.00	
L2370607-01 T; 10X	1	8	36.26059		30.00	
L2370609-01 T; 10X	1	9	107.55118		30.00	
L2370496-01 T	1	10	0.72287		3.00	
CCV 0.4000	1	S6	0.41862			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.93483			
	Known Conc:		100.00000			
CCB	1	S10	0.03532			
	Known Conc:		100.00000			
L2370695-01 T; 10X	1	11	100.24931		30.00	
L2370611-01 T; 10X	1	12	147.30585		30.00	
L2370614-01 T	1	13	2.37905		3.00	
L2370713-01 T	1	14	2.00410		3.00	
L2370756-01 T	1	15	1.28291		3.00	
L2370775-01 T	1	16	1.38224		3.00	
WG1859180-4 T; 70775.1 MS	1	17	8.30448		3.00	
WG1859180-3 T; 70775.1 DUP	1	18	1.45954		3.00	
L2370686-01 T; 10X	1	19	231.34433		60.00	
L2370692-01 T; 10X	1	20	330.49106		150.00	
CCV 0.4000	1	S6	0.41655			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.96736			
	Known Conc:		100.00000			
CCB	1	S10	0.02865			
	Known Conc:		100.00000			

92%

Channel 2 (Ammonia High) - Current View

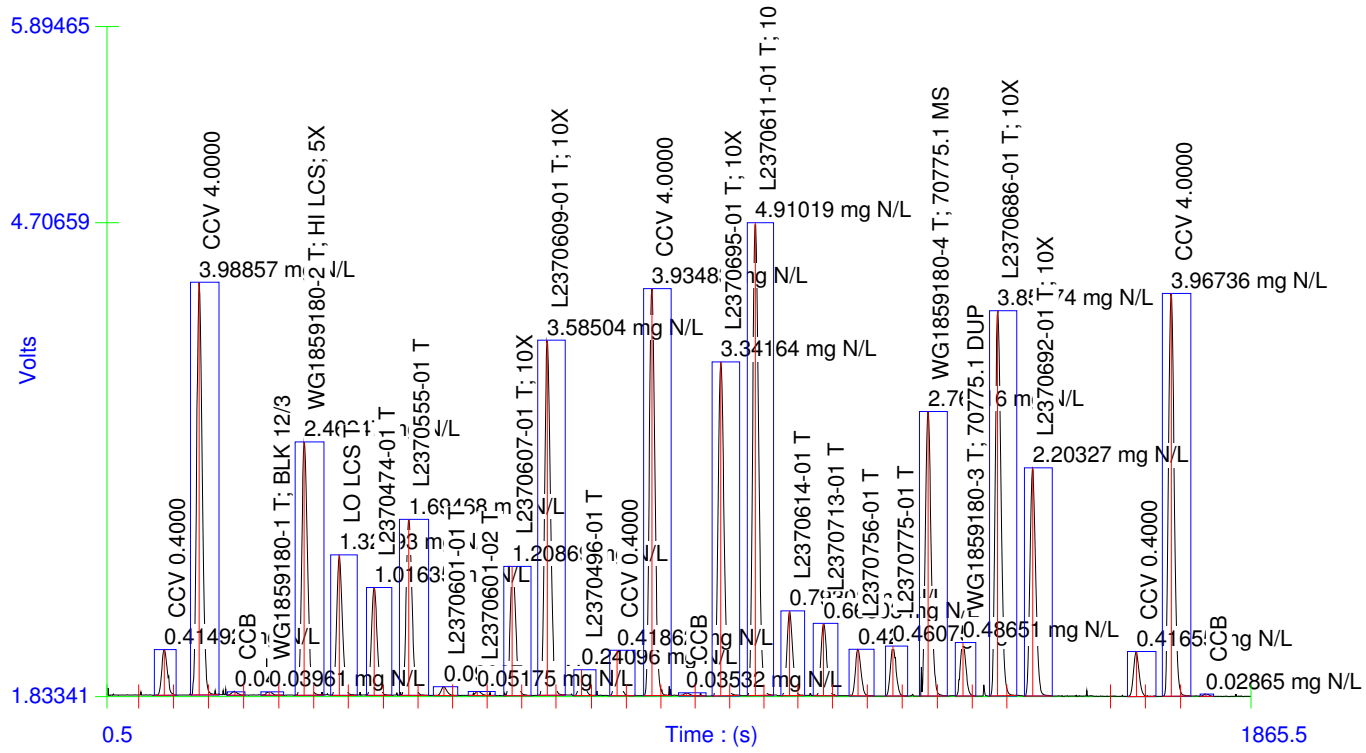
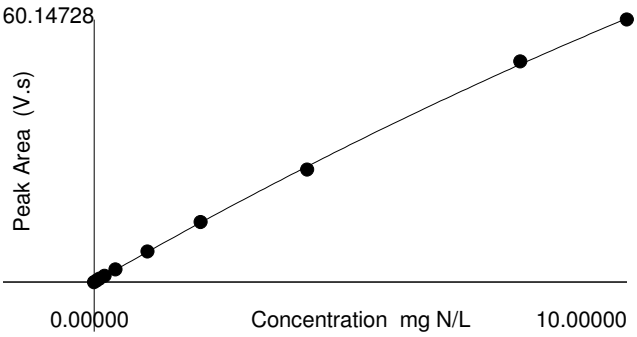


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Area = - 0.09840 * Conc^2 + 7.02985 * Conc - 0.05569
Conc = 0.00040 * Area^2 + 0.14060 * Area + 0.00865
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Original Run Filename: OM_12-5-2023_06-43-17PM.OMN Created: 12/5/2023 6:43:17 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_06-43-17PM.OMN Last Modified: 12/5/2023 7:14:36 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY H

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
CCV 0.4000	1	S6	0.39910				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.89812				
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCB	1	S10	0.03044				
	Known Conc:		100.00000				
WG1859720-1 T; BLK 12/5	1	1	0.03934				
WG1859720-2 T; HI LCS; 5X	1	2	32.52227		15.00		81%
LO LCS T	1	3	3.76257		3.00		
L2371125-01 T	1	4	1.31833		3.00		
L2370981-01 T	1	5	1.28138		3.00		
L2370981-02 T	1	6	1.24981		3.00		
L2370981-03 T	1	7	1.31102		3.00		
L2370981-04 T	1	8	0.59329		3.00		
L2370981-05 T	1	9	0.40729		3.00		
L2370783-01 T	1	10	2.54935		3.00		
CCV 0.4000	1	S6	0.42231				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.89313				
	Known Conc:		100.00000				
CCB	1	S10	0.03673				
	Known Conc:		100.00000				
WG1859720-3 T; 70783.1 DUP	1	11	2.81021		3.00		
WG1859720-4 T; 70783.1 MS	1	12	8.86067		3.00		
L2370783-02 T	1	13	0.53996		3.00		
L2370783-03 T	1	14	0.13868		3.00		
L2370783-04 T	1	15	0.18358		3.00		
L2370783-05 T	1	16	0.24807		3.00		
L2370783-06 T	1	17	3.08762		3.00		
L2370783-07 T	1	18	0.30015		3.00		
L2370783-08 T	1	19	0.76186		3.00		
L2370783-10 T	1	20	0.30997		3.00		
CCV 0.4000	1	S6	0.40276				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.87056				
	Known Conc:		100.00000				
CCB	1	S10	0.02708				
	Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

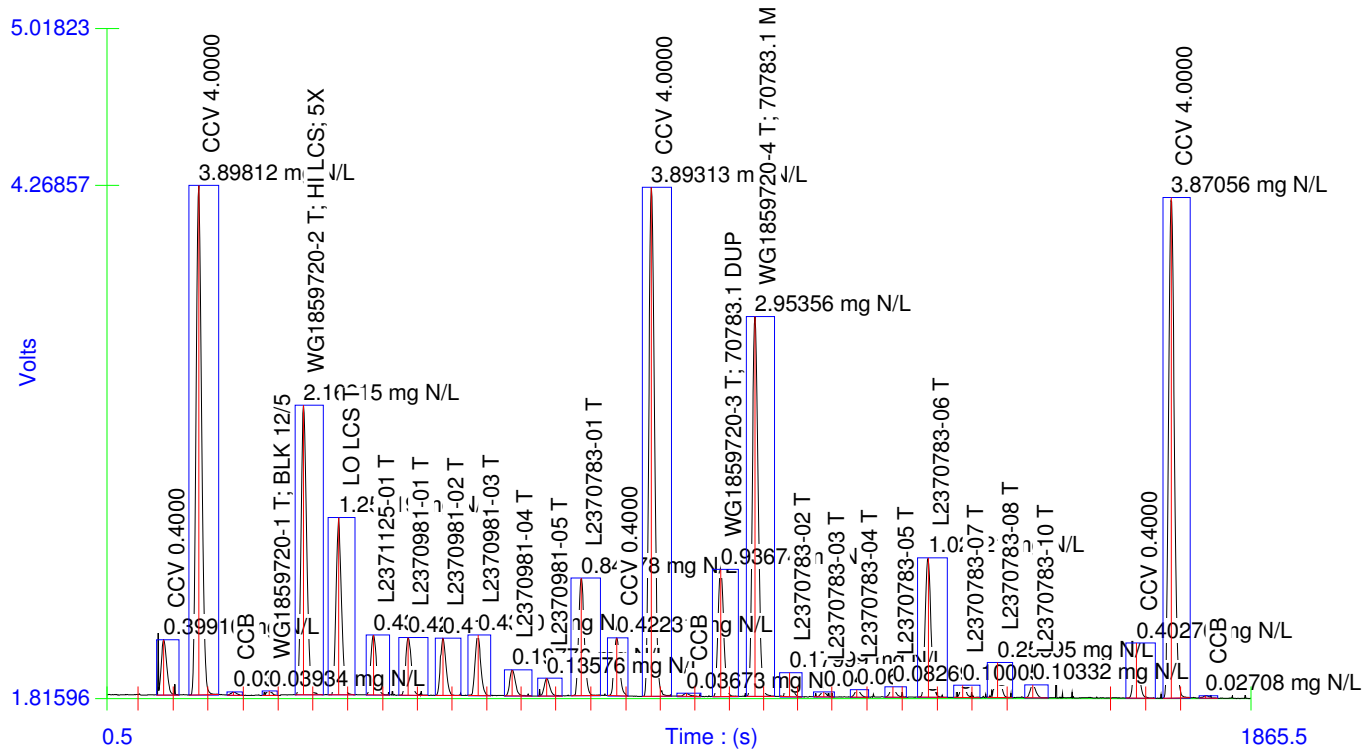
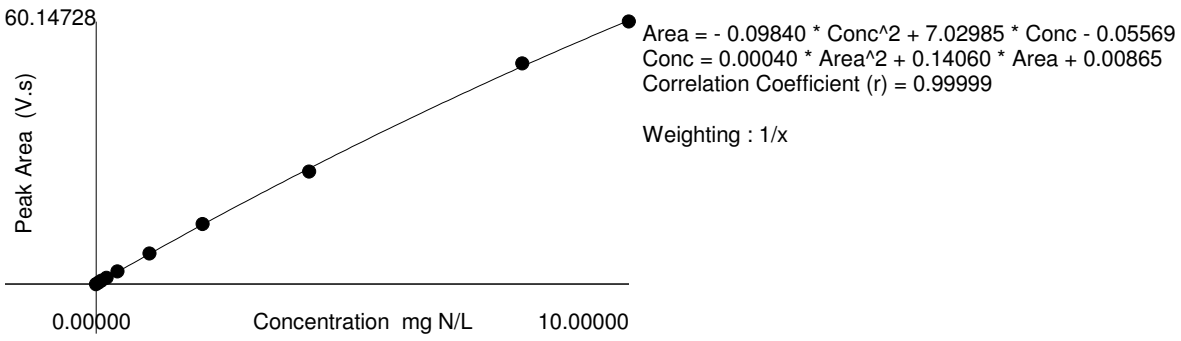


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_12-5-2023_07-31-25PM.OMN Created: 12/5/2023 7:31:25 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_07-31-25PM.OMN Last Modified: 12/5/2023 7:59:15 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
	CCV 0.4000	1	S6	0.38385				TRAY I
			Known Conc:	100.00000				
			Calibration:	Table/Fig. : 1				
	CCV 4.0000	1	S3	3.85232				
			Known Conc:	100.00000				
	CCB	1	S10	0.02863				
			Known Conc:	100.00000				
	WG1859275-1 T; BLK 12/4	1	1	0.02667				
	WG1859275-2 T; HI LCS; 5X	1	2	39.34760		15.00		98%
	LO LCS T	1	3	3.66799		3.00		
	L2370634-04 T	1	4	26.72749		6.00		
	L2370634-05 T	1	5	4.65852		3.00		
	L2370585-01 T	1	6	1.77606		3.00		
	L2370660-01 T	1	7	0.58407		3.00		
	L2370660-02 T	1	8	3.58560		3.00		
	L2370660-03 T	1	9	0.78056		3.00		
	L2370660-04 T	1	10	1.16278		3.00		
	CCV 0.4000	1	S6	0.40732				
			Known Conc:	100.00000				
	CCV 4.0000	1	S3	3.86867				
			Known Conc:	100.00000				
	CCB	1	S10	0.02899				
			Known Conc:	100.00000				
	L2370660-05 T	1	11	23.86121		3.00		
	L2370660-06 T	1	12	1.03162		3.00		
	WG1859275-4 T; 70660.6 MS	1	13	7.62587		3.00		
	WG1859275-3 T; 70660.6 DUP	1	14	0.80688		3.00		
X	L2370660-07 T	1	15	86.50538		6.00		
X	L2370660-08 T	1	16	59.20663		3.00		
X	L2370660-09 T	1	17	1.76654		3.00		
	L2370660-10 T	1	18	0.68684		3.00		
	L2370660-11 T	1	19	0.84504		3.00		
	L2370660-07 T; 10X	1	20	111.32317		60.00		
X	CCV 0.4000	1	S6	0.44172				RERUN OK
			Known Conc:	100.00000				

Channel 2 (Ammonia High) - Current View

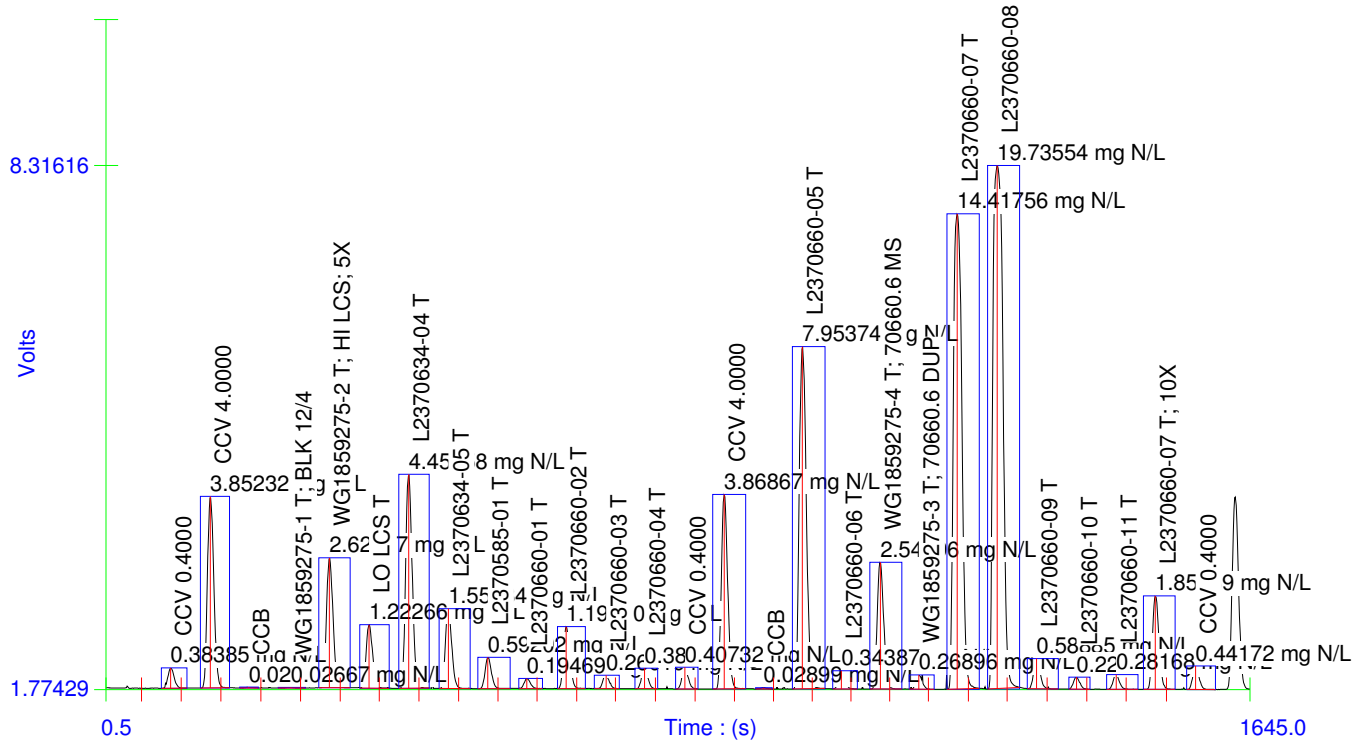
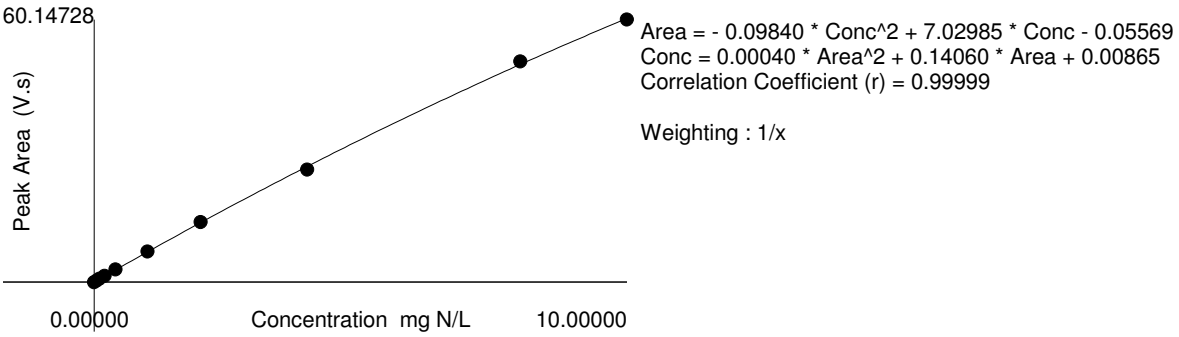


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



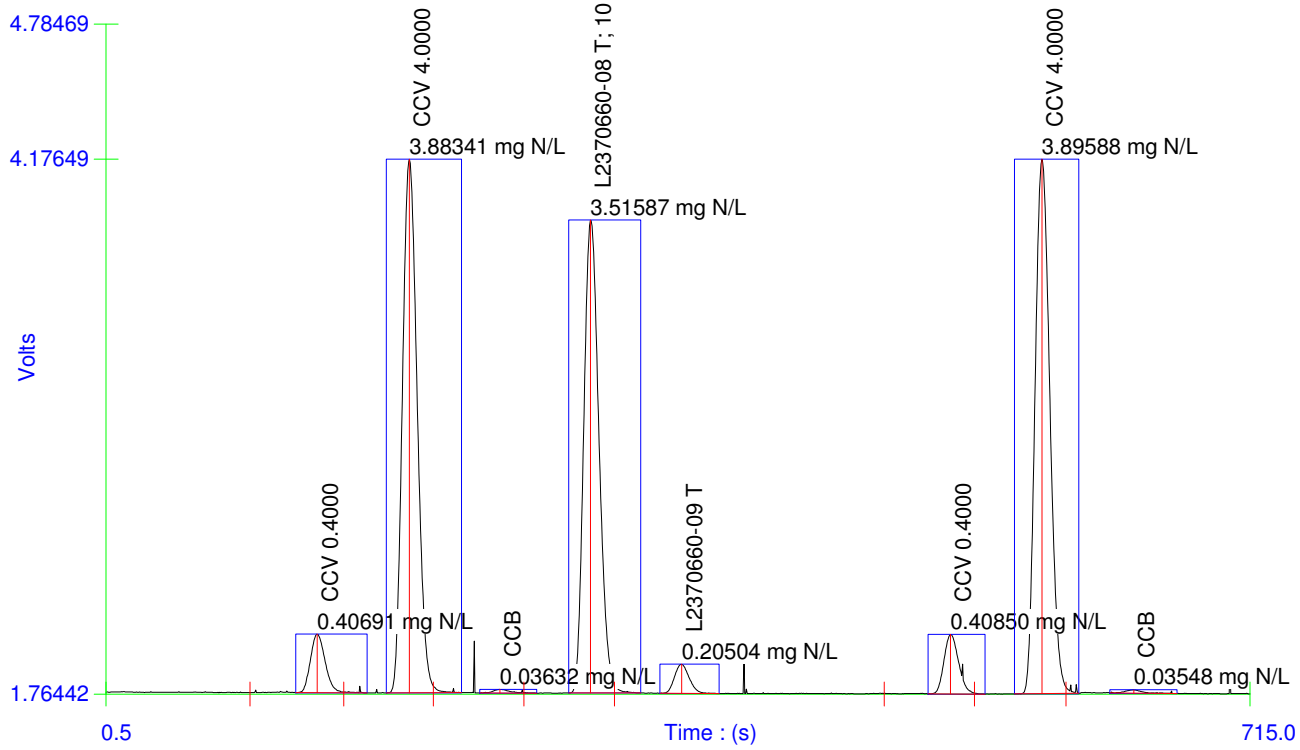
Author: A1WETCHEMINSTRUMENT Date : 12/6/2023

Original Run Filename: OM_12-5-2023_07-59-51PM.OMN Created: 12/5/2023 7:59:51 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_07-59-51PM.OMN Last Modified: 12/5/2023 8:11:57 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY I

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.40691			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.88341			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCB	1	S10	0.03632			
	Known Conc:		100.00000			
L2370660-08 T; 10X	1	21	105.47603		30.00	
L2370660-09 T	1	22	0.61512		3.00	
CCV 0.4000	1	S6	0.40850			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.89588			
	Known Conc:		100.00000			
CCB	1	S10	0.03548			
	Known Conc:		100.00000			

Channel 2 (Ammonia High) - Current View

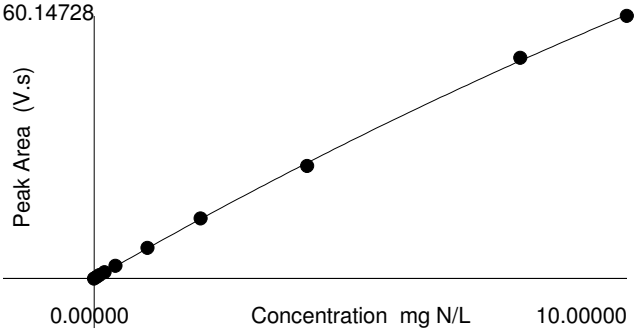


Author: A1WETCHEMINSTRUMENT Date : 12/6/2023

Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Area = - 0.09840 * Conc^2 + 7.02985 * Conc - 0.05569
Conc = 0.00040 * Area^2 + 0.14060 * Area + 0.00865
Correlation Coefficient (r) = 0.99999

Weighting : 1/x

Original Run Filename: OM_12-5-2023_08-13-22PM.OMN Created: 12/5/2023 8:13:22 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_08-13-22PM.OMN Last Modified: 12/5/2023 8:39:55 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

TRAY J

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39728			
	Known Conc:		100.00000			
	Calibration:		Table/Fig. : 1			
CCV 4.0000	1	S3	3.85908			
	Known Conc:		100.00000			
CCB	1	S10	0.03989			
	Known Conc:		100.00000			
WGF1859335-1; BLK 12/4	1	1	0.03731		1.50	
WG1859335-2; HI LCS; 5X	1	2	19.19256		7.50	
LO LCS	1	3	1.84635		1.50	
L2370759-01	1	4	0.38442		1.50	
L2370759-02	1	5	0.35492		1.50	
L2370763-01	1	6	0.32811		1.50	
L2370764-01	1	7	0.37053		1.50	
L2370766-01	1	8	0.25563		1.50	
L2370767-01	1	9	0.08622		1.50	
L2370768-01	1	10	0.45360		1.50	
CCV 0.4000	1	S6	0.39715			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.87619			
	Known Conc:		100.00000			
CCB	1	S10	0.03325			
	Known Conc:		100.00000			
L2370768-02	1	11	0.30015		1.50	
L2370769-01	1	12	0.28436		1.50	
L2370770-01	1	13	0.33040		1.50	
WG1859335-4; 70770.1 MS	1	14	7.97483		3.00	
WG1859335-3; 70770.1 DUP	1	15	0.52519		3.00	
CCV 0.4000	1	S6	0.40041			
	Known Conc:		100.00000			
CCV 4.0000	1	S3	3.83290			
	Known Conc:		100.00000			
CCB	1	S10	0.03557			
	Known Conc:		100.00000			

96%

Author: A1WETCHEMINSTRUMENT Date : 12/6/2023

Channel 2 (Ammonia High) - Current View

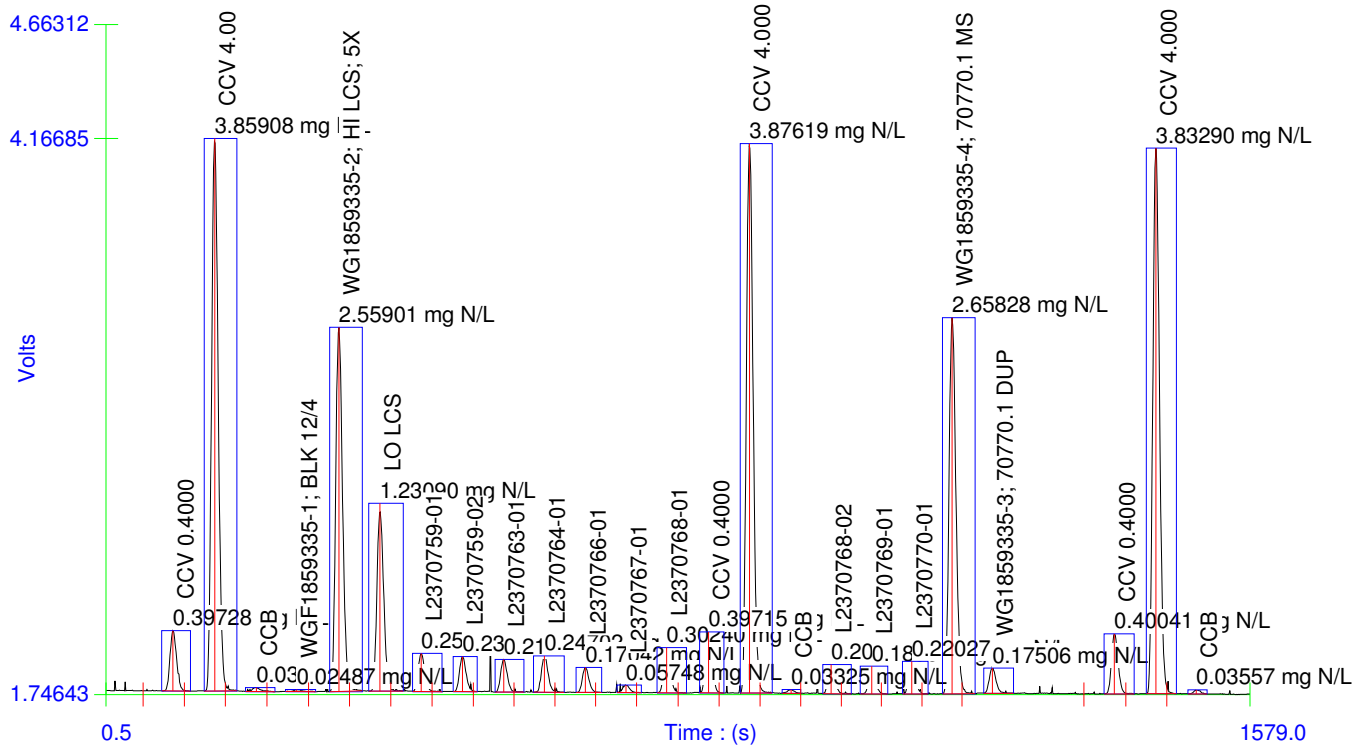
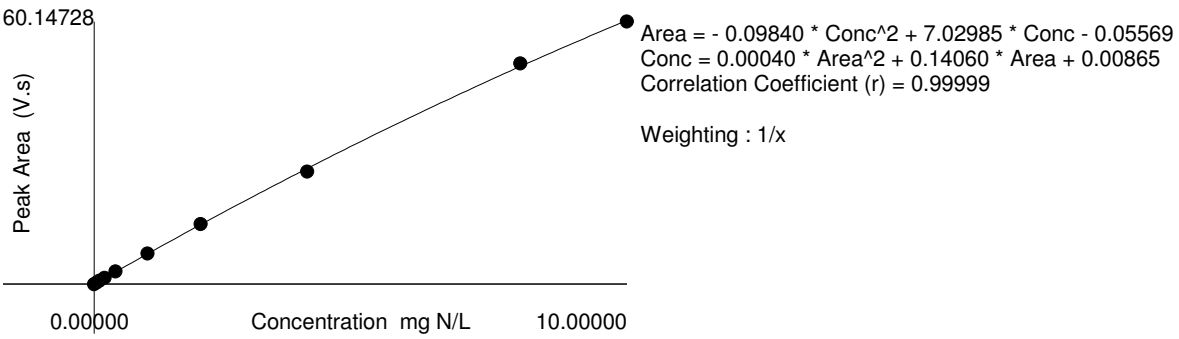


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_12-5-2023_09-11-03PM.OMN Created: 12/5/2023 9:11:03 PM
Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_09-11-03PM.OMN Last Modified: 12/5/2023 9:38:18 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
CCV 0.4000	1	S6	0.40005				TRAY K
	Known Conc:		100.00000				
	Calibration:		Table/Fig. : 1				
CCV 4.0000	1	S3	3.89109				
	Known Conc:		100.00000				
CCB	1	S10	0.02199				
	Known Conc:		100.00000				
WG1859718-1; BLK 12/5	1	1	0.05066		1.50		
WG1859718-2; HI LCS; 5X	1	2	18.78065		7.50		94%
LO LCS	1	3	1.72214		1.50		
L2371097-06	1	4	0.06896		1.50		
L2370783-01	1	5	2.31274		1.50		
WG1859718-4; 70783.1 MS	1	6	7.05478		1.50		
WG1859718-3; 70783.1 DUP	1	7	2.50249		1.50		
L2370783-02	1	8	0.08389		1.50		
L2370783-03	1	9	0.04809		1.50		
L2370783-04	1	10	0.07330		1.50		
CCV 0.4000	1	S6	0.39924				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.88810				
	Known Conc:		100.00000				
CCB	1	S10	0.02568				
	Known Conc:		100.00000				
L2370783-05	1	11	0.03902		1.50		
L2370783-06	1	12	2.68097		1.50		
L2370783-07	1	13	0.07039		1.50		
L2370783-08	1	14	0.03833		1.50		
L2370783-10	1	15	0.06274		1.50		
CCV 0.4000	1	S6	0.39711				
	Known Conc:		100.00000				
CCV 4.0000	1	S3	3.87683				
	Known Conc:		100.00000				
CCB	1	S10	0.02873				
	Known Conc:		100.00000				

Channel 2 (Ammonia High) - Current View

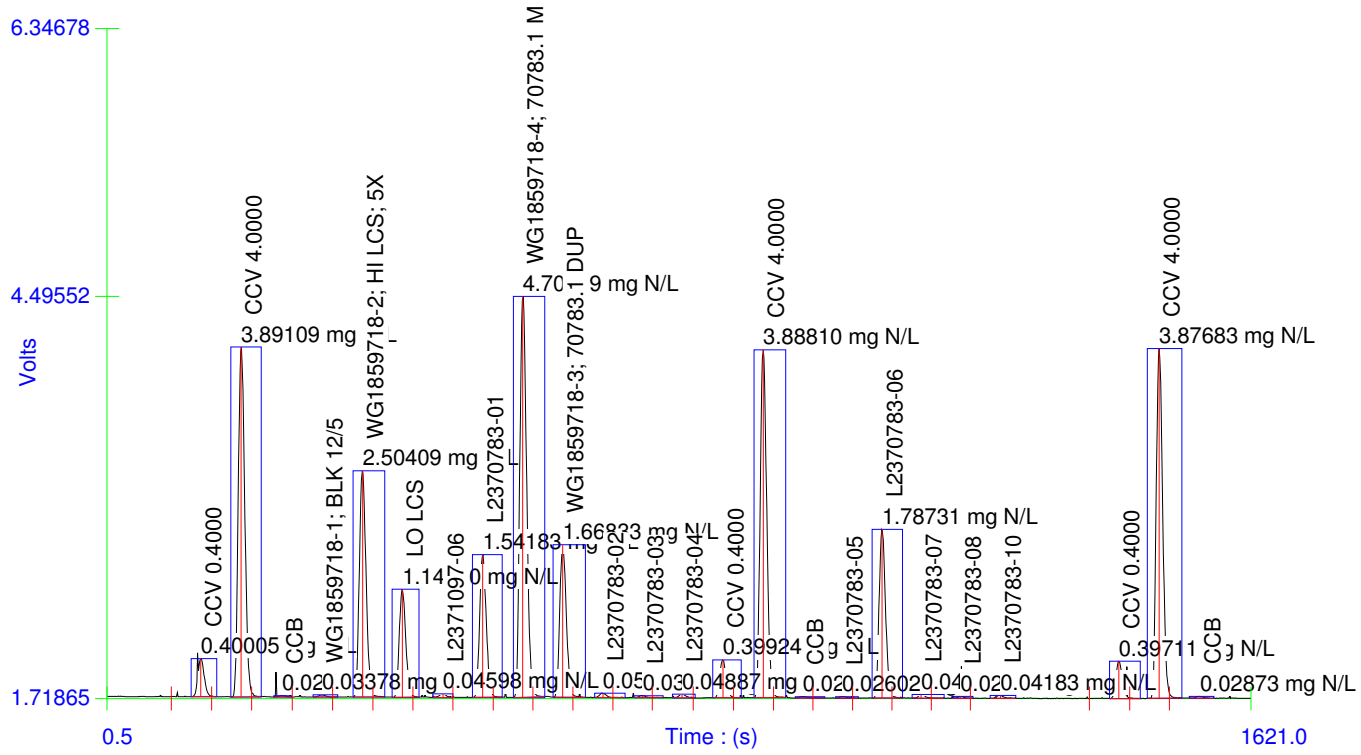
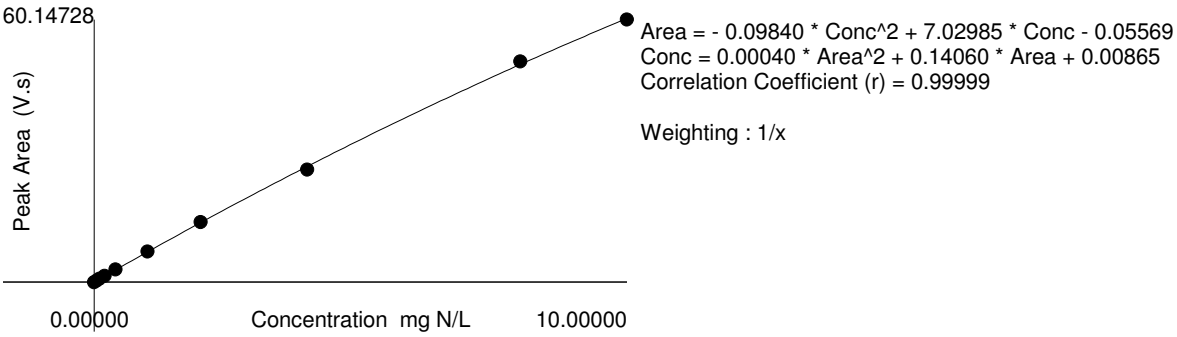


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



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Original Run Author's Signature: [A1WETCHEMINSTRUMENT]
Current Run Filename: OM_12-5-2023_09-38-53PM.OMN Last Modified: 12/5/2023 10:21:31 PM
Current Run Author's Signature: [A1WETCHEMINSTRUMENT]
Description: Default New Run

	Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	ADF	MDF	Weight	
	CCV 0.4000	1	S6	0.39380				TRAY L
		Known Conc:		100.00000				
		Calibration:		Table/Fig. : 1				
	CCV 4.0000	1	S3	3.84815				
		Known Conc:		100.00000				
	CCB	1	S10	0.03201				
		Known Conc:		100.00000				
	WG1859181-1; BLK 12/3	1	1	0.05782		1.50		
	WG1859181-2; HI LCS; 5X	1	2	18.33216		7.50		92%
	LO LCS	1	3	1.63847		1.50		
	L2370660-11	1	4	0.06184		1.50		
	L2370660-12	1	5	0.05693		1.50		
	L2370660-13	1	6	0.27259		1.50		
	L2370660-14	1	7	0.05461		3.00		
	L2370660-15	1	8	0.05277		1.50		
X	L2370660-16	1	9	100.68634		7.50		
X	L2370484-01	1	10	0.45078		1.50		
	CCV 0.4000	1	S6	0.42308				
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.84301				
		Known Conc:		100.00000				
	CCB	1	S10	0.03151				
		Known Conc:		100.00000				
	L2370484-02	1	11	0.07067		1.50		
	L2370689-01	1	12	0.03721		1.50		
	L2370689-02	1	13	0.04762		1.50		
	L2370689-03	1	14	0.27954		1.50		
	L2370689-04	1	15	1.38870		1.50		
	L2370689-05	1	16	0.06149		1.50		
	L2370780-01	1	17	0.04784		1.50		
	L2370780-02	1	18	0.03476		1.50		
	L2370780-03	1	19	0.03742		1.50		
	L2370780-04	1	20	3.71203		1.50		
	CCV 0.4000	1	S6	0.42168				
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.78062				
		Known Conc:		100.00000				
	CCB	1	S10	0.02789				
		Known Conc:		100.00000				
	L2370780-05	1	21	0.24468		1.50		
	L2370780-06	1	22	1.88046		1.50		
	WG1859181-4; 70780.6 MS	1	23	5.69966		1.50		
	WG1859181-3; 70780.6 DUP	1	24	2.21670		1.50		
	L2370780-07	1	25	1.28212		1.50		
	WG1859181-8; 70780.7 MS	1	26	5.01661		1.50		
	WG1859181-7; 70780.7 DUP	1	27	1.51426		1.50		
	L2370660-16; 10X	1	28	134.14034		75.00		
	L2370484-01	1	29	0.11217		1.50		
	CCV 0.4000	1	S6	0.39822				
		Known Conc:		100.00000				
	CCV 4.0000	1	S3	3.80780				
		Known Conc:		100.00000				
	CCB	1	S10	0.02913				
		Known Conc:		100.00000				

Author: A1WETCHEMINSTRUMENT Date : 12/6/2023

Channel 2 (Ammonia High) - Current View

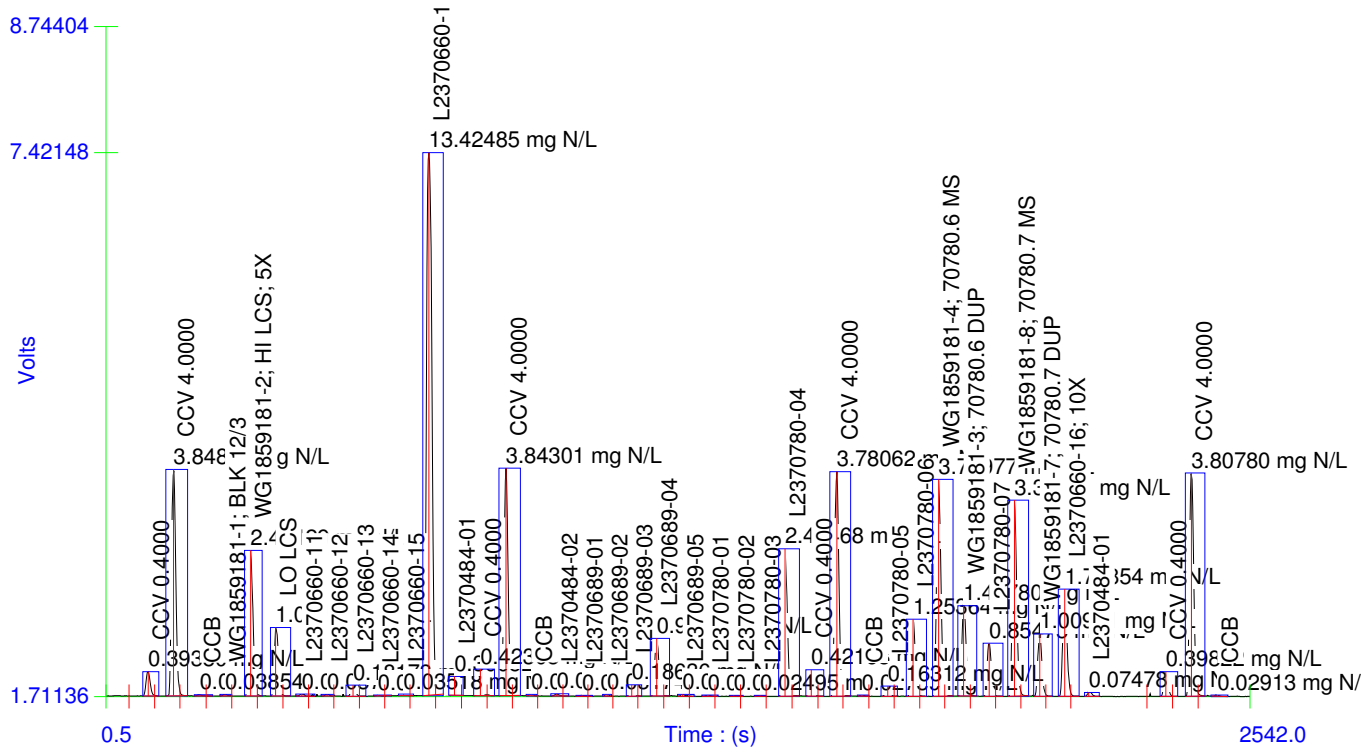
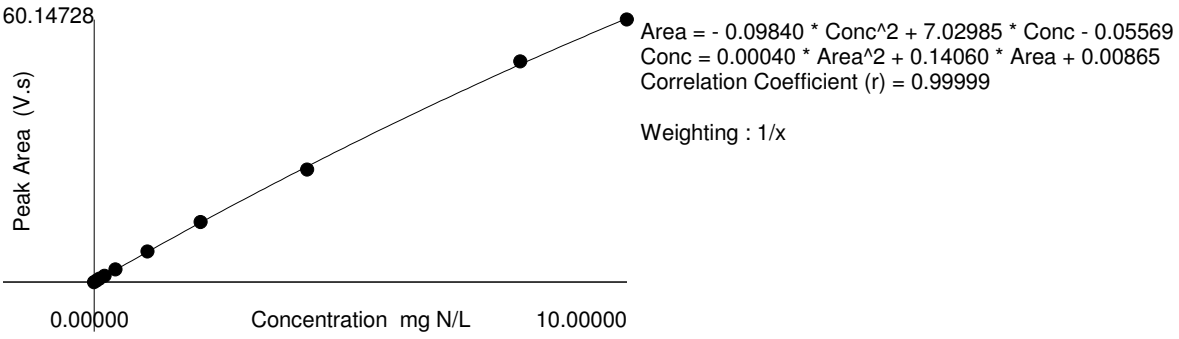


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	60.14728	5.56066	0.0	0.4	9.91946	12/5/2023	8:39:58 AM
2	8.00000	1	50.54735	4.86432	0.0	-1.3	8.14255	12/5/2023	8:40:54 AM
3	4.00000	1	25.72725	2.50106	0.0	2.9	3.89188	12/5/2023	8:41:51 AM
4	2.00000	1	13.69419	1.33824	0.0	-0.6	2.00939	12/5/2023	8:42:48 AM
5	1.00000	1	6.95293	0.68106	0.0	-1.1	1.00564	12/5/2023	8:43:46 AM
6	0.40000	1	2.86574	0.27482	0.0	-4.6	0.41486	12/5/2023	8:44:44 AM
7	0.20000	1	1.36140	0.13481	0.0	-1.1	0.20080	12/5/2023	8:45:42 AM
8	0.10000	1	0.69691	0.06153	0.0	-7.8	0.10683	12/5/2023	8:46:41 AM
9	0.05000	1	0.29876	0.02915	0.0	-1.1	0.05069	12/5/2023	8:47:38 AM
10	0.00000	1	-0.10291	-0.00474			-0.00582	12/5/2023	8:48:35 AM

Figure : 1 (Ammonia)



Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2370783-01		
Matrix Spike	: WG1859718-4	**MS Analysis Date**	: 12/05/23 21:20
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**		**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Ammonia	**2.31**	**4**	**7.05**	**118**	**Q**					**90-110**	**20**

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2370783-01	**Analysis Date**	: 12/05/23 21:19
Dup Sample ID	: WG1859718-3	**DUP Analysis Date**	: 12/05/23 21:21

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Ammonia	2.31	2.50	8	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1859718-2	**LCS Analysis Date**	: 12/05/23 21:16
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/l)	(mg/l)		(mg/l)	(mg/l)			Limits	Limit
Nitrogen, Ammonia	20.0	18.8	94.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Ammonia	7664-41-7	0.075	0.024	mg/l	80-120	20	80-120	20	20	4500NH3-BH	28 days	1 - Plastic 500ml H2SO4 preserved
Nitrogen, Ammonia	7664-41-7	0.075	0.024	mg/l	90-110	20	90-110	20	20	350.1	28 days	1 - Plastic 500ml H2SO4 preserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Ammonia	7664-41-7	7.5	2.79	mg/kg	83-115	20	55-144	20	20	4500NH3-BH	28 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Nitrogen in Ammonia

Aqueous samples:

Compute sample NH_3 –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

NH_3-N mg/L = mg/L direct reading x dilution factor

Sequence Logs

From Page No. ___

Tray A (08-38-45 AM)
prep 12/2/23 @ 20:42

1	Hi ICV 8.0	
2	Lo ICV 1.0	
3	ICB	
4	WG1858991-1T. Blk soil	(0.1225)
5	-2T; LCS Hi; 5x	(0.1429)
6	LCS Lo T	(0.1361)
7	69985-01T	(0.1191)
8	70506-01T	(0.1365)
9	-01T MS	(0.1129)
10	-01T Dup	(0.1391)
11	70544-01T	(0.1063)

KEP

Tray B (09-13-55AM)
prep 12/3/23 @ 8:01

1	WG1859068-1. Blk
2	-2; LCS Hi; 5x
3	LCS Lo
4	70311-02
5	-02 MS
6	-02 Dup
7	-04
8	-06

Date: 12/5/23
Sodium Phenolate: 12/1/23 R-3947
Sodium Hypochlorate: 12/1/23 stop+shop
Sodium Nitropruisside: 12/1/23 R-3619
Borric Acid Soln.: 12/1/23 R-4019
ICV 1.0: 11/27/23 WC-3368
ICV 8.0:
Cal. Std: 11/28/23 WC-3294
See Front Page for Instructions:

Tray C (09-34-33AM)
prep 12/3/23 @ 7:55

1	WG1859067-1. Blk
2	-2; LCS Hi; 5x
3	LCS Lo
4	70323-06
5	-07
6	-08
7	-09
8	-10
9	-10 MS
10	-10 Dup
11	-11
12	-12
13	70316-01 (5x)
14	-02
15	70585-01

KEP

Tray D (10-02-42AM)
prep 12/3/23 @ 8:11

1	WG1859069-1. Blk
2	-2; LCS Hi; 5x
3	LCS Lo
4	70342-04
5	70348-04
6	70348-08
7	-12
8	-12 MS
9	-12 Dup

To Page No. ___

Witnessed & Understood by me, | Date | Invented by: | Date
Recorded by:

From Page No. ____

Tray E (10-27-17AM, 10-45-15AM, 11-05-15AM) tg: F (05-03-24PM)
prep 12/12/23 @ 8:36 #1 prep 12/3/23 @ 1833

1	WG1858839-1T Blk	1	WG1859177-1 T Blk 12/3
2	-2T, LCS Hi; 5x	2	WG1859177-2 T; Hi LCS -T x
3	LCS Lo T	3	6 LCS T
4	70229-01T(5x)	4	70660.12 T
5	02T	5	.13 T
6	70247-03T ; 10x	6	.14 T (2T)
7	-04T ; 10x	7	.15 T
8	-05T	8	.16 T (5T)
9	-06T	9	70685.3 T
10	-07T	10	.4 T
11	70410-01T ; 10x	11	.5 T
12	02T	12	70780.1 T
13	70437-01T ; 20x	13	.2 T
14	02T	14	.3 T
15	70448-01T	15	.4 T
16	02T	16	.5 T
17	03T	17	.6 T
18	70466-01T	18	.7 T
19	01T MS	19	WG1859177-4 T; 70780.7 MS
20	01T Dup	20	WG1859177-3 T; 70780.7 Dup

To Page No. ____

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

From Page No. 06-11-45PM

tfg-G (05-57-54PM)
#1 Pmp 12/3/23 @1846

1	Wtr 859180-1T; Blu 12/3
2	Wtr 859180-2T; Hi Lvl Tx
3	6 Lvls T
4	70474.1 T
5	70555.1 T
6	70601.1 T
7	.2 T
8	70607.1 T -10+
9	70609.1 T -10+
10	70496.1 T
11	70695.1 T -10+
12	70611.1 T -10+
13	70614.1 T
14	70713.1 T
15	70756.1 T
16	70775.1 T
17	Wtr 859180-4T; 70775.1 Mid
18	Wtr 859180-3T; 70775.1 Top
19	70686.1 T (2T) -10+
20	70692.1 T (5T) -10+

05-57-55PM

tfg-H (06-43-17PM
Pmp 12/5/23 @0137

1	Wtr 859720-1T; Blu 12/5
2	Wtr 859720-2T; Hi Lvl Tx
3	6 Lvls T
4	71125.1 T
5	70981.1 T
6	.2 T
7	.3 T
8	.4 T
9	.5 T
10	70783.1 T
11	Wtr 859720-3T; 70783.1 Top
12	Wtr 859720-4T; 70783.1 Mid
13	70783.2 T
14	.3 T
15	.4 T
16	.5 T
17	.6 T
18	.7 T
19	.8 T
20	.10 T @

To Page No.

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

From Page No. ____

fig. I (07-31-23 pm)
Pkg 12/4/23 @ 0826

1 wk 185927-1 T. Blk 12/4
2 wk 185927-2 T; Hi wg -T x
3 lo wg T
4 70634.4 T (2 x)
5 .5 T
6 70585.1 T
7 70660.1 J
8 .2 I
9 .3 I
10 .4 I
11 .5 I
12 .6 T
13 wk 185927-4 T; 70660.6 ms
14 wk 185927-3 T; 70660.6 bp
15 70660.7 T (20) -10 +
16 .8 J -10 +
17 .9 J
18 .10 J
19 .11 T
20

07-59-51 pm

fig. J (08-13-22 pm)
Pkg 12/4/23 @ 1320

1 wk 185935-1 Blk 12/4
2 wk 185935-2; Hi wg -5 x
3 lo wg
4 70759.1
5 .2
6 70763.1
7 70764.1
8 70786.1
9 70787.1
10 70788.1
11 .2
12 70789.1
13 70770.1
14 wk 185935-4; 70770.1 ms (2 x)
15 wk 185935-3; 70770.1 bp (2 x)

fig. K (09-11-63 pm)
Pkg 12/5/23 @ 0147

1 wk 185978-1; Blk 12/5
2 wk 185978-2; Hi wg -T x
3 lo wg
4 71097.6
5 70783.1
6 wk 185978-4; 70783.1 ms
7 wk 185978-3; 70783.1 bp
8 70783.2
9 .3
10 .4
11 .5
12 .6
13 .7
14 .8
15 .10

To Page No. ____

Witnessed & Understood by me,	Date	Invented by:	Date
		Recorded by:	

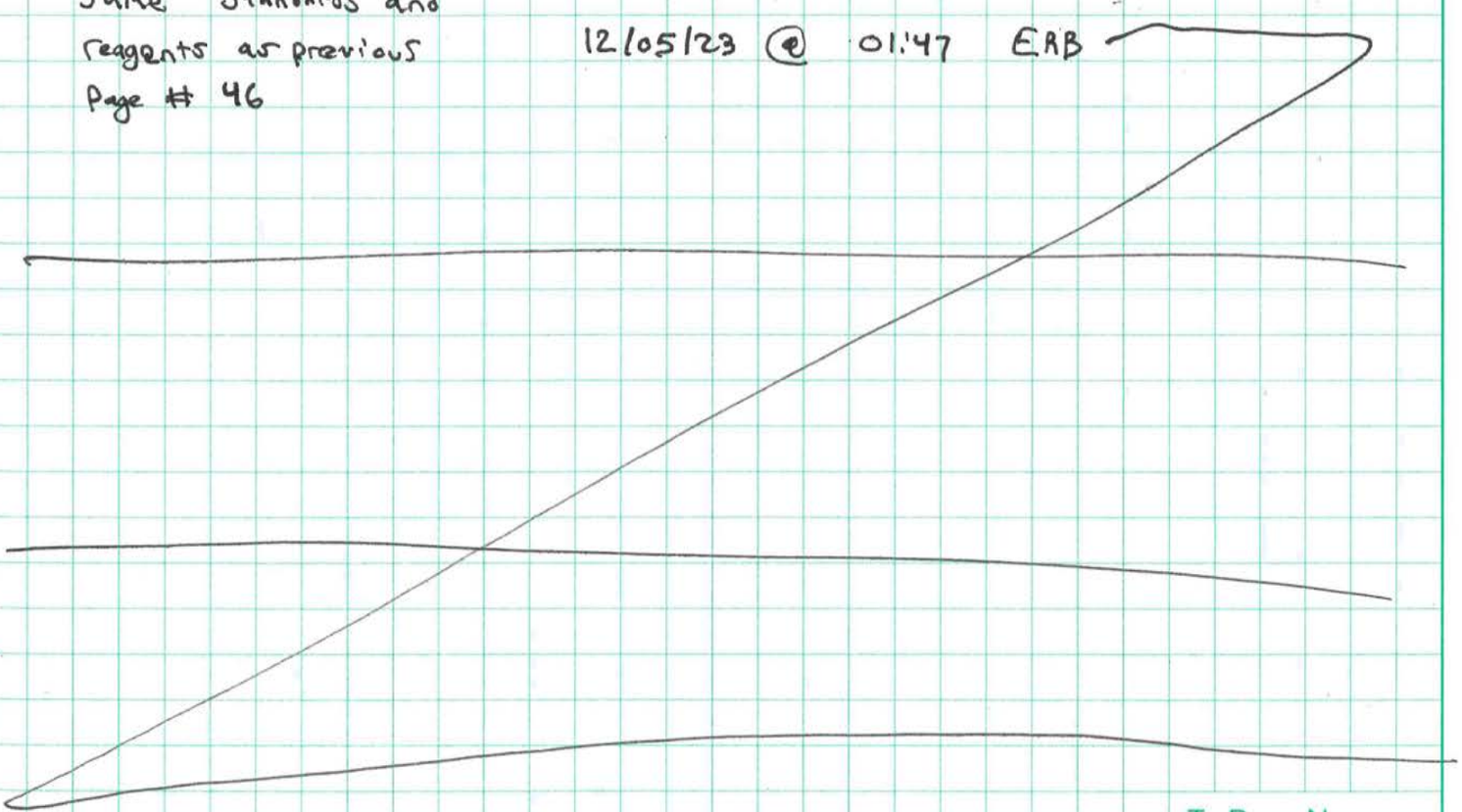
Sample Preparation

WG1859718

Sample	Vol. 100mL	Dil. 1X	Int pH <2	Adj pH ~9.5	Final vol. 150 mL
Blank	↓	↓	↓	↓	↓
Low					
High					
L2370783-01 PA					
-01 Dup					
-01 MS					
-02					
-03					
-04					
-05					
-06					
-07					
-08					
-10					
1097-06					

Same Standards and reagents as previous Page # 46

12/05/23 @ 01:47 ERB



Witnessed & Understood by me, | Date | Invented by: | Date | Recorded by:

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/01/23 09:20
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3231201-A2	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.21	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/01/23 09:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3231201-A2	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.88	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/01/23 08:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3231201-A6	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	5.2	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/01/23 09:32
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3231201-A2	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.46	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/01/23 09:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3231201-A2	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	1.5	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/01/23 08:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3231201-A6	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Nitrogen, Nitrate/Nitrite**	**0.50**	**0.10**	**0.046**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/01/23 09:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3231201-A2	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	6.9	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/01/23 09:36
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3231201-A2	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	2.9	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-10	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP2	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/01/23 09:37
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3231201-A2	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	7.1	0.10	0.046	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1858859-1	**Date Collected**	: NA
Client ID	: WG1858859-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/01/23 09:18
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3231201-A2	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1858859-3	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1SDUP	**Date Received**	: 11/30/23
Sample Location	:	**Date Analyzed**	: 12/01/23 09:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500NO3-F	**Analyst**	: KAF
Lab File ID	: NO3231201-A2	**Instrument ID**	: LACHAT
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Nitrogen, Nitrate/Nitrite	0.19	0.10	0.05	

Sample Raw Data

Author: KAF Date : 12/1/2023

Original Run Filename: OM_12-1-2023_05-22-51AM.OMN Created: 12/1/2023 5:22:51 AM
Original Run Author's Signature: [A1wetcheminstrument]
Current Run Filename: OM_12-1-2023_05-22-51AM.OMN Last Modified: 12/1/2023 9:59:41 AM
Current Run Author's Signature: [A1wetcheminstrument]
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 NO3+NO2 (mg/L)	Channel 2 Nitrite (mg N/L)	ADF	MDF	Weight
NOx 8.0ppm	1	S3	8.00000	100.00000			
NOx 4.0ppm	1	S4	4.00000	100.00000			
NOx 1.0ppm	1	S2	1.00000	100.00000			
NOx 0.4ppm	1	S5	0.40000	100.00000			
NOx 0.2ppm	1	S6	0.20000	100.00000			
NOx 0.1ppm	1	S7	0.10000	100.00000			
NOx 0.0ppm	1	S1	0.00000	100.00000			
Nitrite 8.0ppm	1	S10	100.00000	8.00000			
Nitrite 4.0ppm	1	S11	100.00000	4.00000			
Nitrite 1.0ppm	1	S9	100.00000	1.00000			
Nitrite 0.4ppm	1	S12	100.00000	0.40000			
Nitrite 0.1ppm	1	S13	100.00000	0.10000			
Nitrite 0.05ppm	1	S14	100.00000	0.05000			
Nitrite 0.0ppm	1	S1	100.00000	0.00000			
CCV NO3	1	S2	1.00958	-0.00575			
	Known Conc:		1.00000	0.00000			
	Calibration:		Table/Fig. : 1	Table/Fig. : 2			
CCV NO2	1	S9	0.99632	1.00575			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00919	-0.01121			
	Known Conc:		0.00000	0.00000			
ICV NO3 5.0	1	1	4.99689	-0.00293			
ICV NO2 5.0	1	2	4.64437	4.75203			
ICV NO3 0.5	1	3	0.50967	-0.00262			
ICV NO2 0.5	1	4	0.48580	0.50445			
ICB	1	5	-0.00272	-0.00541			
DILUTER CHK 8PPM	1	6	8.35372	-0.00609	5.00		
BLK NO3	1	7	-0.00262	-0.00310			
LCS NO3	1	8	4.94453	-0.00546			
BLK NO2	1	9	-0.00234	0.00014			
LCS NO2	1	10	4.59323	4.75165			
CCV NO3	1	S2	0.99412	-0.00891			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	0.98452	1.01722			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01075	-0.00609			
	Known Conc:		0.00000	0.00000			
WG1858416/417-1; NO2	1	11	0.00460	-0.00308			
WG1858416/417-2; NO2	1	12	4.59862	4.75646			
WG1858418-1; NO2	1	13	0.00935	-0.00230			
WG1858418-2; NO2	1	14	4.88016	4.99760			
WG1858419/420-1; NO3	1	15	-0.01049	-0.00718			
WG1858419/420-2; NO3	1	16	5.01958	-0.00100			
WG1858421/422-1; NO3	1	17	-0.01140	0.00034			
WG1858421/422-2; NO3	1	18	4.97127	-0.00399			
L2370546-01G	1	95	1.93566	-0.00492			
WG1858423-1; NO3	1	19	0.00565	-0.00146			
CCV NO3	1	S2	1.02047	0.00115			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.00648	1.01933			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00053	-0.00211			
	Known Conc:		0.00000	0.00000			
WG1858423-2; NO3	1	20	5.04223	-0.01130			
WG1858424-1; NO3	1	21	-0.00905	-0.00880			
WG1858424-2; NO3	1	22	5.01775	-0.00534			
L2370169-01A	1	23	0.02570	0.00899			
L2370169-02A	1	24	0.25165	0.04485			
L2370169-02A	1	24	0.29818	0.03992	5.00		

L2370170-01A	1	25	0.02039	0.01330			
L2370170-02A	1	26	15.18900	0.07414			
L2370170-02A	1	26	18.40773	0.07411	5.00		
L2370279-15J	1	27	0.02135	0.00964			
CCV NO3	1	S2	1.01518	-0.00037			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.00634	1.01906			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00404	-0.00989			
	Known Conc:		0.00000	0.00000			
L2370279-16J	1	28	0.01963	0.01122			
L2370279-17J	1	29	0.02420	0.01188			
L2370279-18J	1	30	0.02403	0.01159			
L2370279-19J	1	31	0.24974	0.02511			
L2370410-01B	1	32	0.01527	0.01284			
WG1858421/422-3; NO3 410-01	1	33	0.01417	0.01238			
WG1858421/422-4; NO3 410-01	1	34	4.10687	0.01595			
WG1858418-3; NO2 410-01	1	35	0.02212	0.01365			
WG1858418-4; NO2 410-01	1	36	4.19272	4.26318			
L2370410-02B	1	37	1.94739	0.09222			
CCV NO3	1	S2	1.02658	-0.00026			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.00952	1.02674			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00832	0.00165			
	Known Conc:		0.00000	0.00000			
L2370456-01G	1	38	0.96153	0.01059			
L2370456-02G	1	39	0.97567	0.01205			
L2370456-03G	1	40	0.28087	0.01352			
L2370456-04G	1	41	0.01981	0.01025			
L2370466-01A	1	42	21.24521	0.24059			
WG1858419-3; NO3 466-01	1	43	21.16295	0.24022			
WG1858419-4; NO3 466-01	1	44	36.73296	0.24712	10.00		
WG1858416-3; NO2 466-01	1	45	21.16775	0.23057			
WG1858416-4; NO2 466-01	1	46	21.99365	4.42567			
L2370466-01A	1	42	32.99899	0.25307	10.00		
CCV NO3	1	S2	1.01561	-0.00069			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.00781	1.02864			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01389	-0.00849			
	Known Conc:		0.00000	0.00000			
WG1858419-3; NO3 466-01	1	43	33.08595	0.23897	10.00		
L2369676-01A	1	66	9.63582	0.59586			
L2369676-01A	1	66	10.51091	0.58123	10.00		
L2370468-01A	1	47	14.51693	0.08603			
L2370469-01A	1	48	0.61202	0.13687			
L2370471-01A	1	49	22.96304	0.07446			
L2370472-01A	1	50	9.30945	0.00861			
L2370468-01A	1	47	17.53106	0.08213	5.00		
L2370469-01A	1	48	0.60332	0.13682			
L2370471-01A	1	49	39.59870	0.08330	10.00		
CCV NO3	1	S2	1.02155	-0.00611			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.00897	1.02606			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00644	0.00016			
	Known Conc:		0.00000	0.00000			
L2370472-01A	1	50	10.12208	0.00951	5.00		
L2370473-01A	1	51	12.43347	0.01293			
L2370474-01A	1	52	0.19235	0.02356			
L2370601-01A	1	53	28.57170	0.01526			
L2370601-02A	1	54	28.38675	0.02686			
L2370607-01B	1	55	0.67317	0.07969			
L2370507-01D	1	56	0.46433	0.01385			
WG1858424-3; NO3 507-01	1	57	0.56648	0.01086			
WG1858424-4; NO3 507-01	1	58	4.65758	0.00713			
L2370507-02D	1	59	0.03943	0.02154			

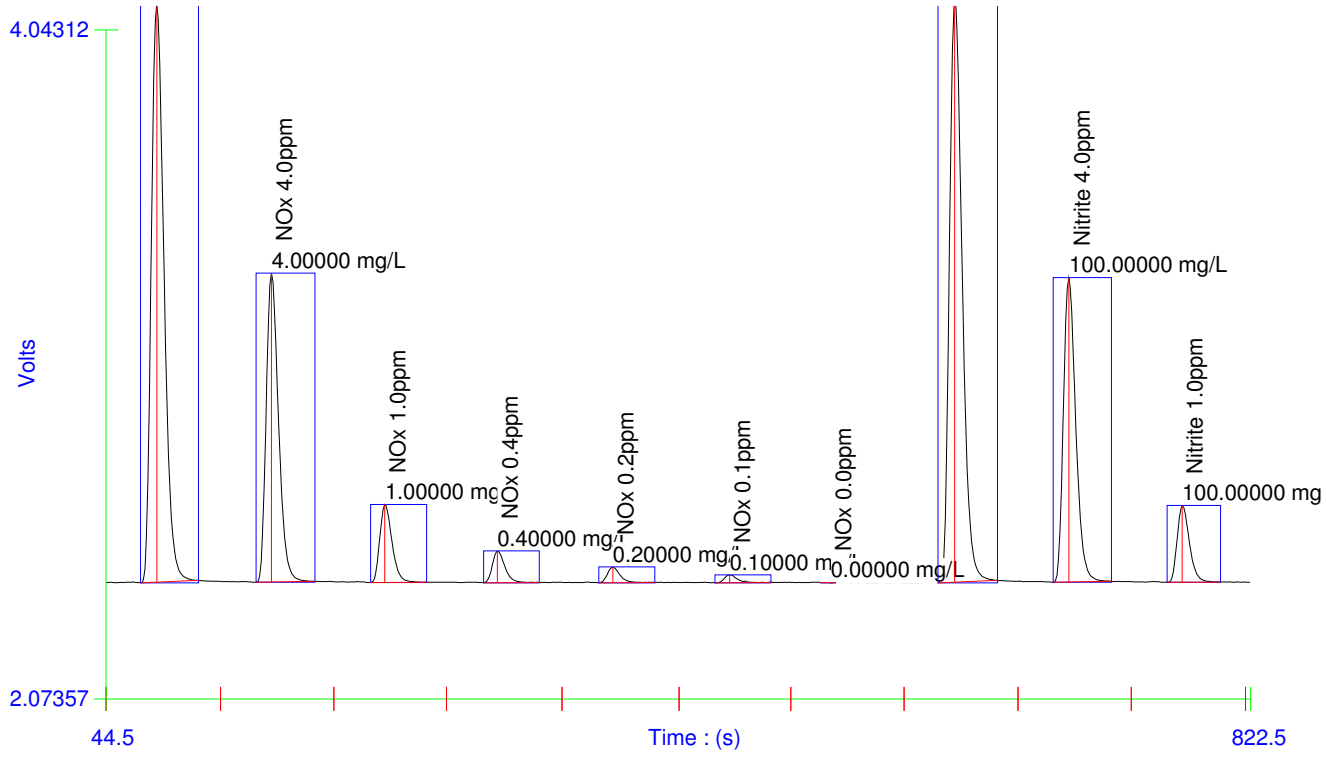
CCV NO3	1	S2	1.01699	0.00031			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.01517	1.02384			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00656	-0.00113			
	Known Conc:		0.00000	0.00000			
L2370473-01A	1	51	14.26763	-0.01372	5.00		
L2370474-01A	1	52	0.18668	0.02314			
L2370601-01A	1	53	77.07077	0.00216	10.00		
L2370601-02A	1	54	76.27218	0.00485	10.00		
L2370607-01B	1	55	0.62739	0.07911			
L2370507-03D	1	60	0.38672	0.00959			
L2370507-04D	1	61	0.05778	0.02101			
L2370507-05D	1	62	0.02996	0.00893			
L2370507-06D	1	63	0.04880	0.00949			
L2370507-07D	1	64	0.52151	0.01232			
CCV NO3	1	S2	1.02495	-0.00126			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.02061	1.03273			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00888	-3.84538e-6			
	Known Conc:		0.00000	0.00000			
L2370508-01L	1	65	0.54734	0.02622			
L2370307-01E	1	67	1.63696	0.00567			
L2370609-01C	1	68	20.25718	0.20574			
WG1858420-3; DUP NO3 609-01	1	69	20.28641	0.20857			
WG1858420-4; MS NO3 609-01	1	70	34.08284	0.18372	10.00		
WG1858417-3; DUP NO2 609-01	1	71	20.33187	0.20964			
WG1858417-4; MS NO2 609-01	1	72	21.39891	4.37520			
L2370609-01C	1	68	30.83900	0.22374	10.00		
WG1858420-3; DUP NO3 609-01	1	69	30.78698	0.20291	10.00		
L2370611-01B	1	73	0.02371	0.02027			
CCV NO3	1	S2	1.03083	0.00041			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.02309	1.03728			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00774	-0.00308			
	Known Conc:		0.00000	0.00000			
L2370614-01A	1	74	0.20223	0.04377			
L2370686-01M	1	75	0.37143	0.06034			
L2370692-01L	1	76	0.46725	0.14548			
L2370695-01M	1	77	0.45116	0.14341			
L2370395-10J	1	78	0.04552	0.02507			
WG1858423-3; NO3 395-10	1	79	0.04157	0.01909			
WG1858423-4; NO3 395-10	1	80	4.32229	0.03902			
L2370395-11J	1	81	0.02458	0.00889			
L2370395-12J	1	82	0.04750	0.02204			
L2370395-13J	1	83	0.05148	0.00776			
CCV NO3	1	S2	1.03576	-0.00706			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.02378	1.03216			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01442	-0.00023			
	Known Conc:		0.00000	0.00000			
L2370395-14J	1	84	0.06552	0.00986			
L2370395-15J	1	85	0.04028	0.02185			
L2370783-03P	1	106	5.17555	0.00523			
L2370783-06P	1	109	0.49717	0.00696			
L2370395-16J	1	86	0.02296	0.00550			
L2370395-17J	1	87	0.03366	0.00994			
L2370440-01J	1	88	0.47165	0.00428			
L2370440-02J	1	89	1.60172	0.01399			
L2370440-03J	1	90	0.04621	0.03074			
L2370440-04J	1	91	1.49428	0.05707			
CCV NO3	1	S2	1.02827	-0.00084			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.02170	1.03235			
	Known Conc:		0.00000	1.00000			

CCB	1	S1	-0.00891	-0.00079			
	Known Conc:		0.00000	0.00000			
L2370440-05J	1	92	0.04928	0.03263			
L2370440-06J	1	93	0.04386	0.03193			
L2370440-07J	1	94	0.04303	0.03163			
WG1858490/491-1; BLANK NO2	1	96	-0.00564	-0.00231			
WG1848490/491-2; LCS NO2	1	97	4.90770	4.98448			
WG1858493/494-1; BLANK NO3	1	98	-0.01473	-0.01068			
WG1858493/494-2; LCS NO3	1	99	5.02297	-0.00152			
L2370783-01P	1	100	0.20630	0.15956			
WG1858493-3; NO3 783-01	1	101	0.18987	0.15235			
WG1858493-4; NO3 783-01	1	102	4.28708	0.14770			
CCV NO3	1	S2	1.02771	-0.00021			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.02668	1.04161			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	0.00778	0.00015			
	Known Conc:		0.00000	0.00000			
WG1858490-3; NO2 783-01	1	103	0.19040	0.15242			
WG1858490-4; NO2 783-01	1	104	4.35918	4.40585			
L2370783-02P	1	105	0.87506	0.01007			
L2370783-04P	1	107	0.45524	0.00685			
L2370783-05P	1	108	1.53037	0.00560			
L2370783-07P	1	110	6.89985	0.00951			
L2370783-08P	1	111	2.86862	0.00346			
L2370783-10E	1	112	7.08134	0.01117			
L2370751-02N	1	113	-0.01042	-0.00051			
L2370751-04L	1	114	1.42750	0.00657			
CCV NO3	1	S2	1.02240	-0.00278			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.02496	1.03355			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.00962	0.00038			
	Known Conc:		0.00000	0.00000			
WG1858494-3; DUP NO3 751-04	1	115	1.43289	-0.00646			
WG1858494-4; MS NO3 751-04	1	116	5.27713	0.01524			
WG1858491-3; DUP NO2 751-04	1	117	1.43944	-0.00402			
WG1858491-4; MS NO2 751-04	1	118	5.38411	4.11674			
L2370751-07L	1	119	2.26426	0.02663			
L2370537-01A	1	120	0.12305	0.00543			
L2370620-06A	1	121	0.01215	0.00592			
CCV NO3	1	S2	1.02085	-0.00056			
	Known Conc:		1.00000	0.00000			
CCV NO2	1	S9	1.01516	1.03417			
	Known Conc:		0.00000	1.00000			
CCB	1	S1	-0.01105	-0.00109			
	Known Conc:		0.00000	0.00000			

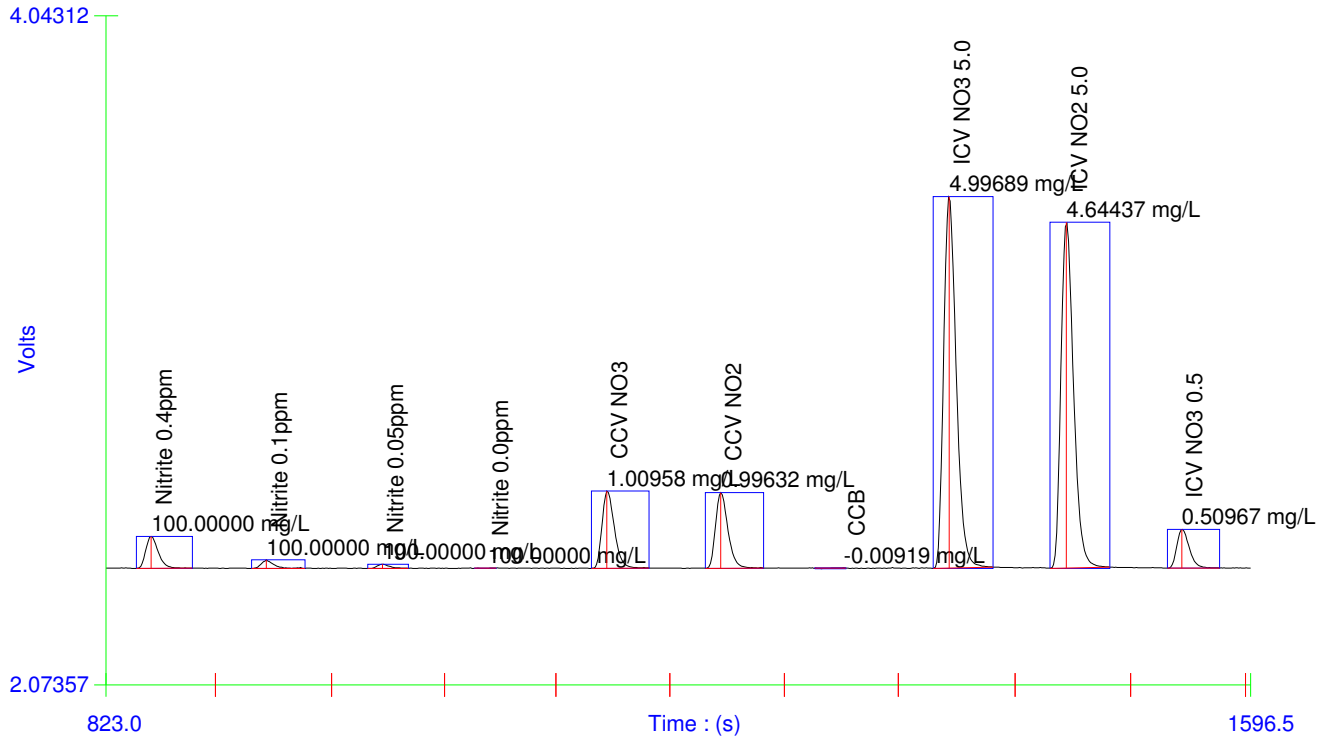
Author: KAF

Date : 12/1/2023

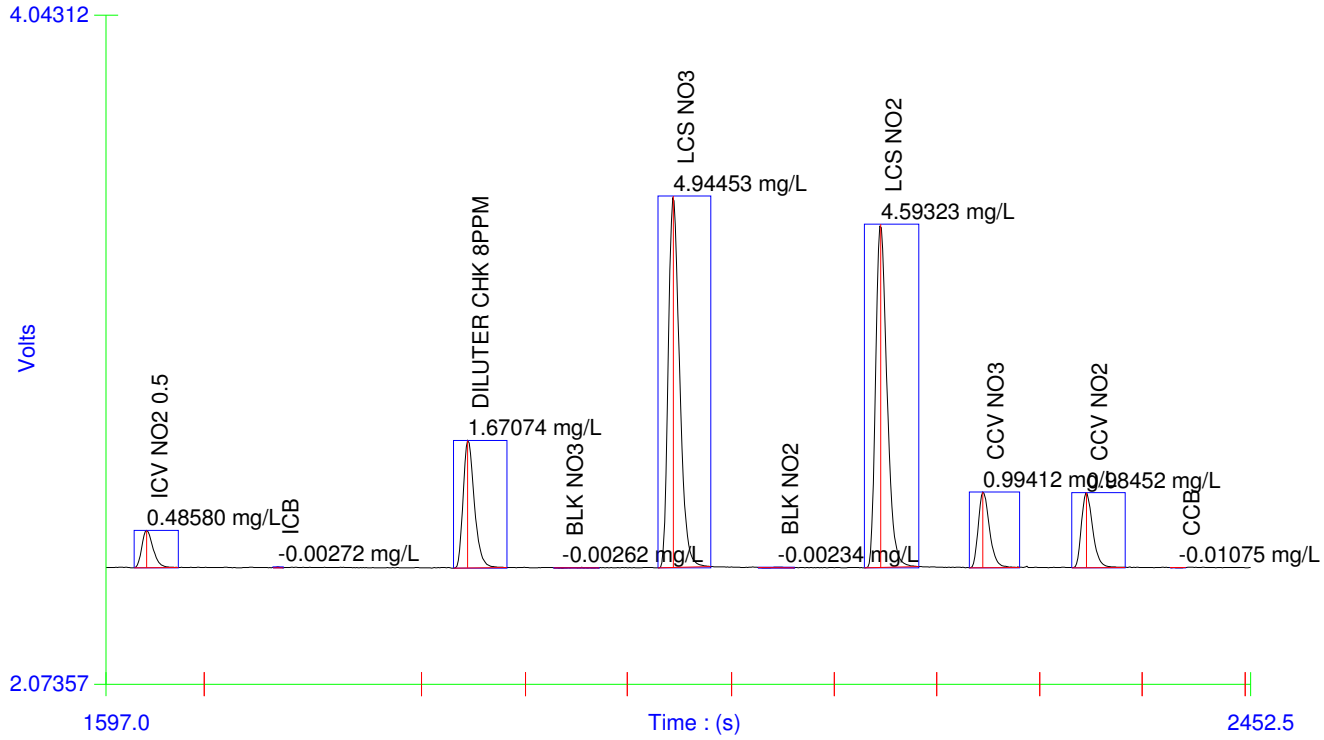
Channel 1 (NO3+NO2) - Set: 1 / 20



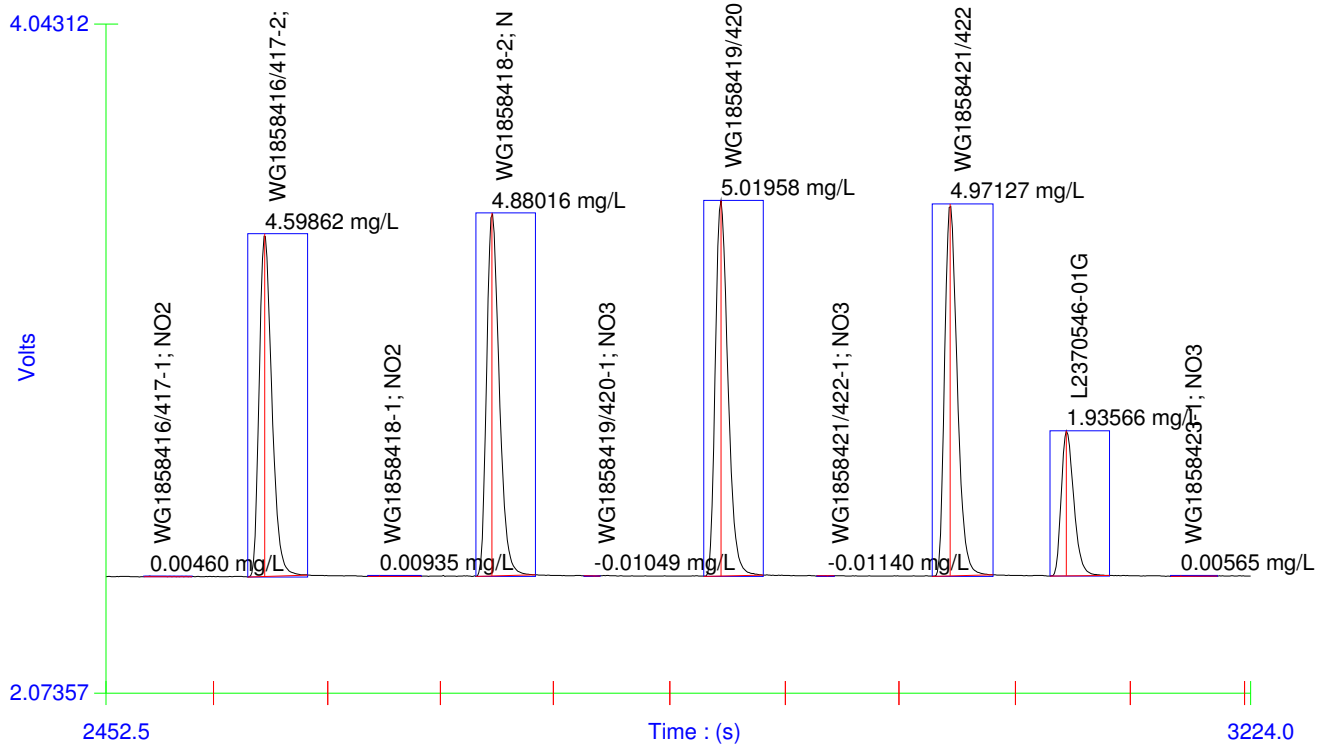
Channel 1 (NO3+NO2) - Set: 2 / 20



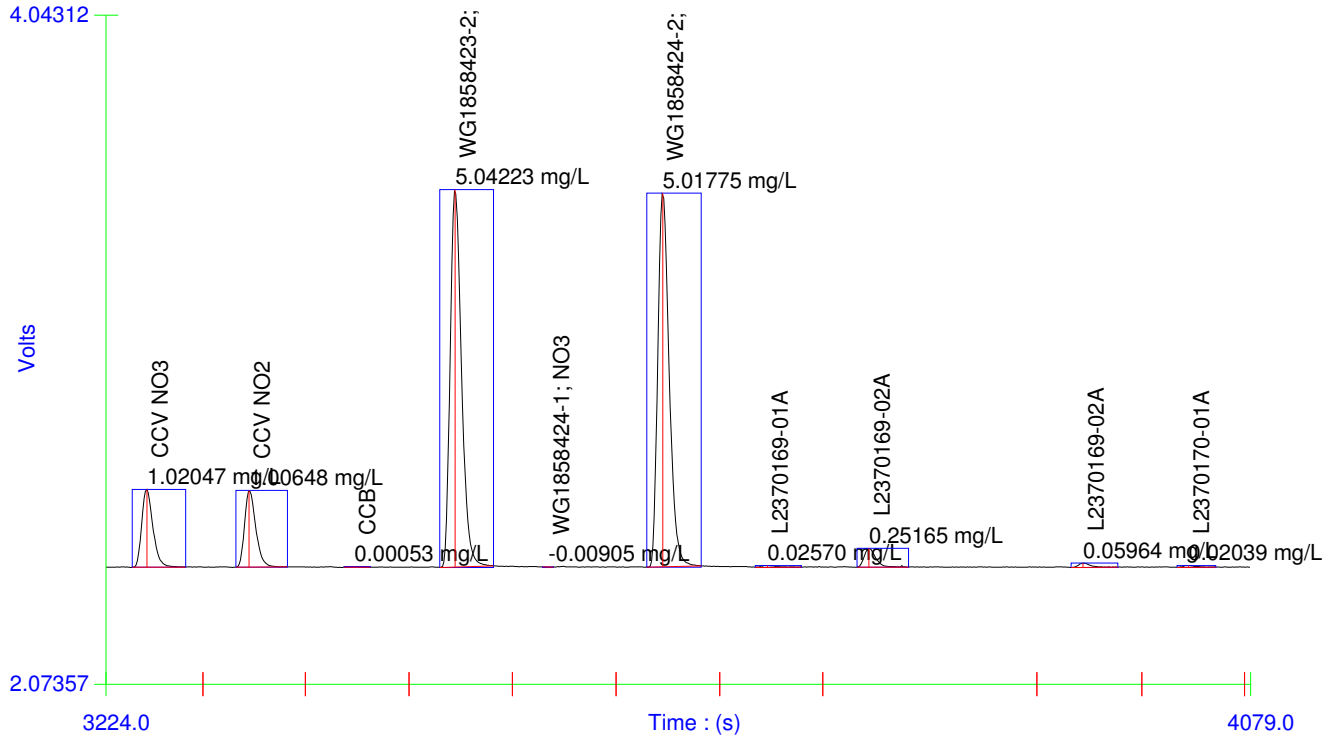
Channel 1 (NO3+NO2) - Set: 3 / 20



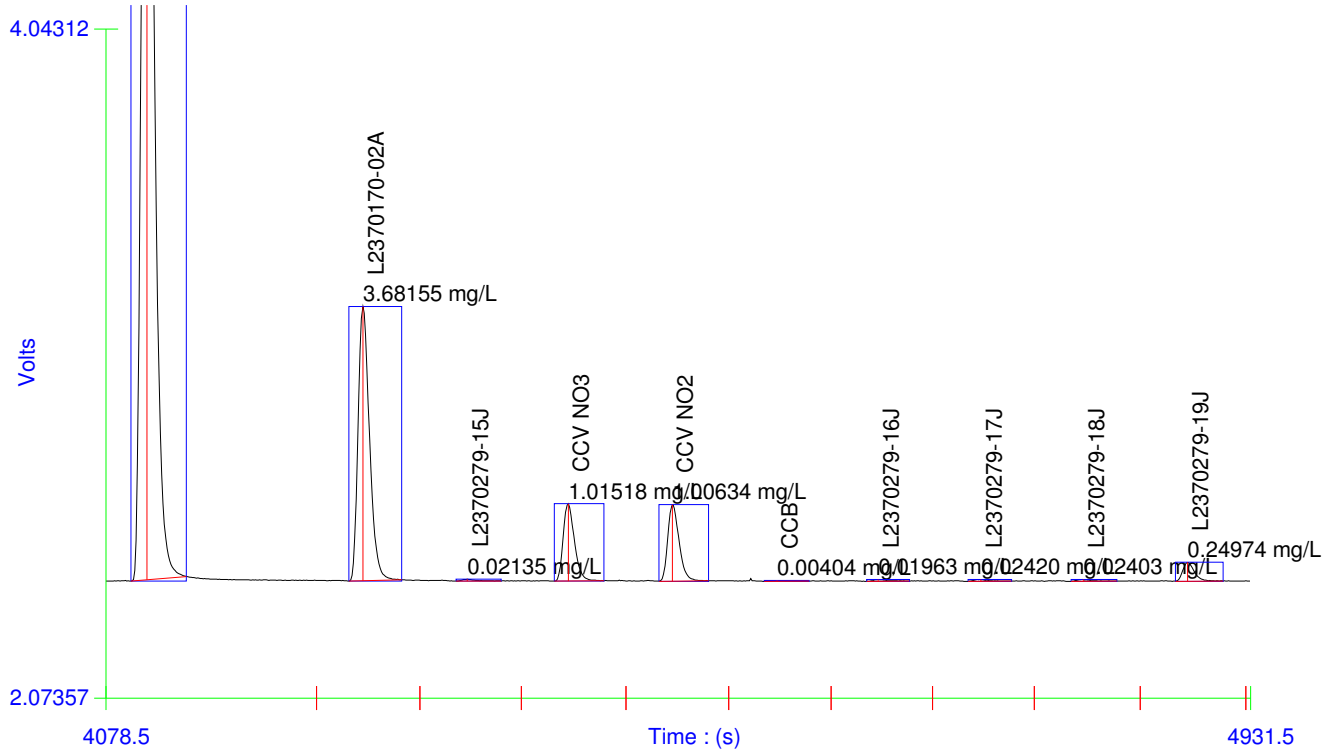
Channel 1 (NO3+NO2) - Set: 4 / 20



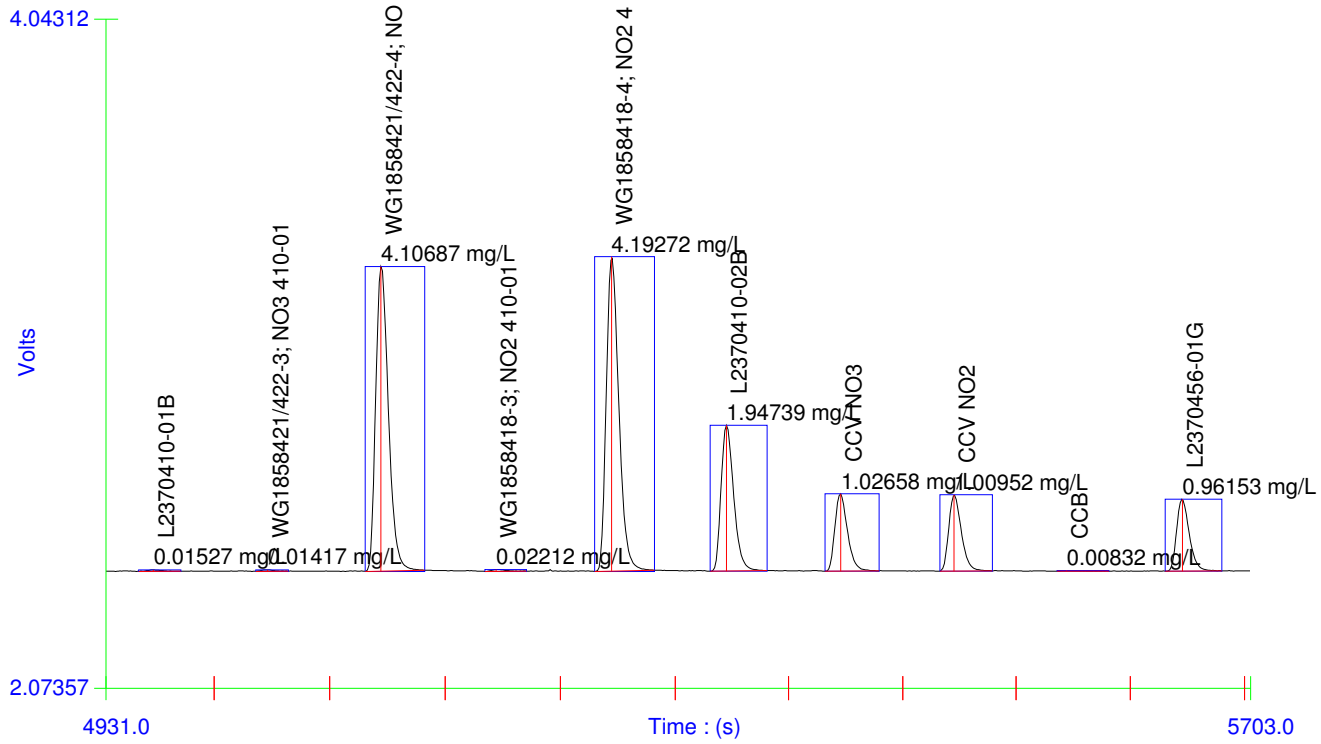
Channel 1 (NO3+NO2) - Set: 5 / 20



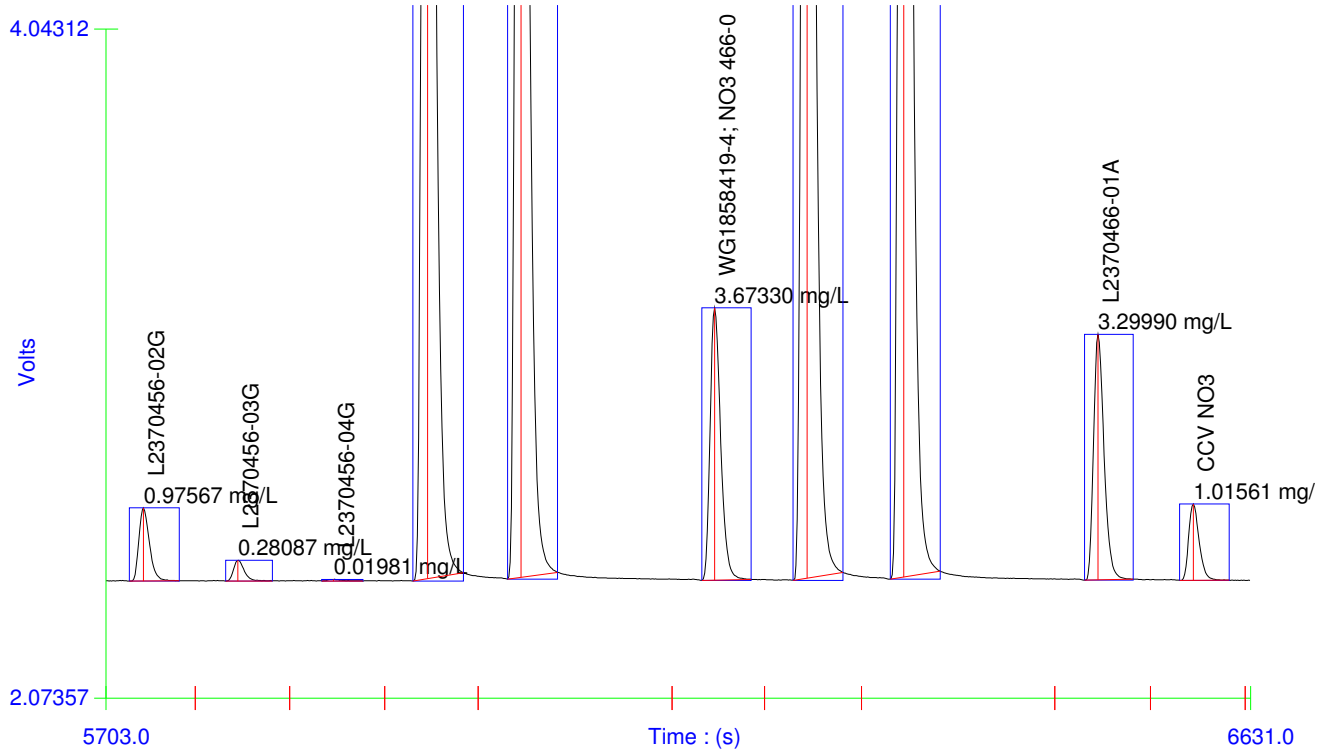
Channel 1 (NO3+NO2) - Set: 6 / 20



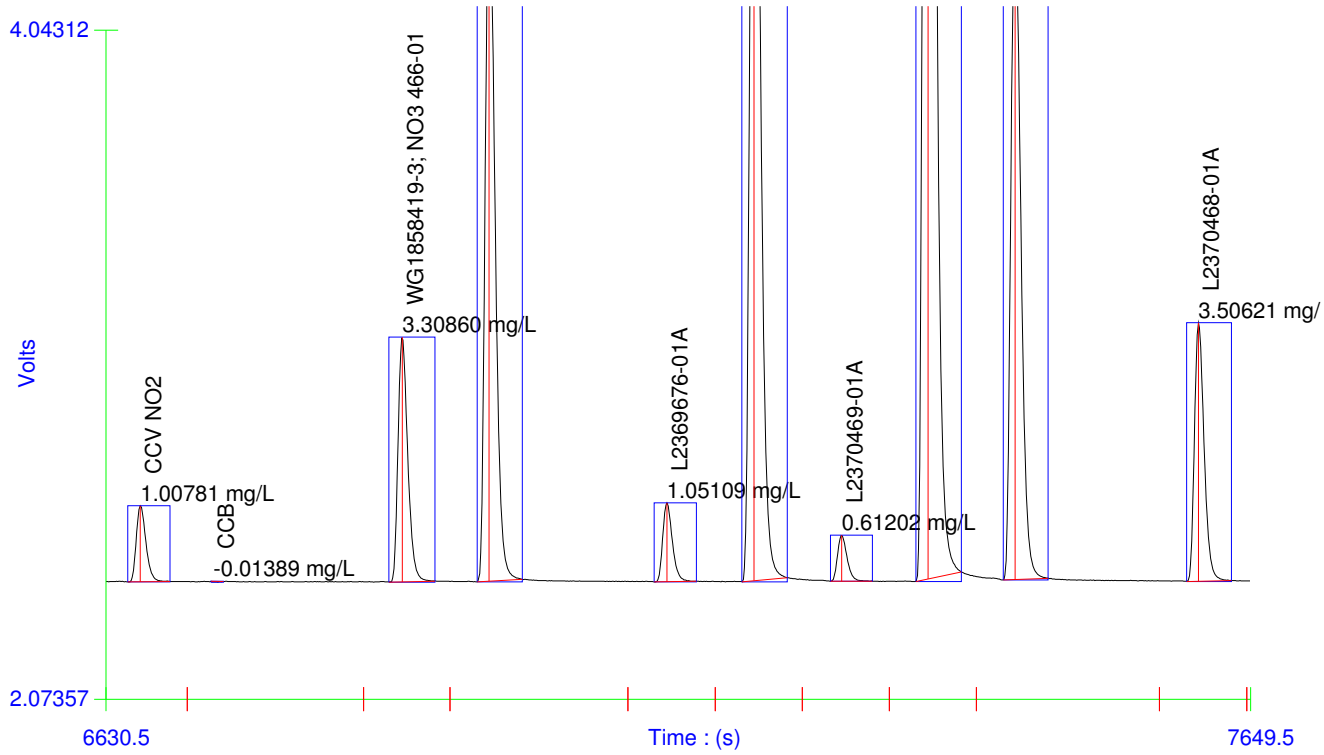
Channel 1 (NO3+NO2) - Set: 7 / 20



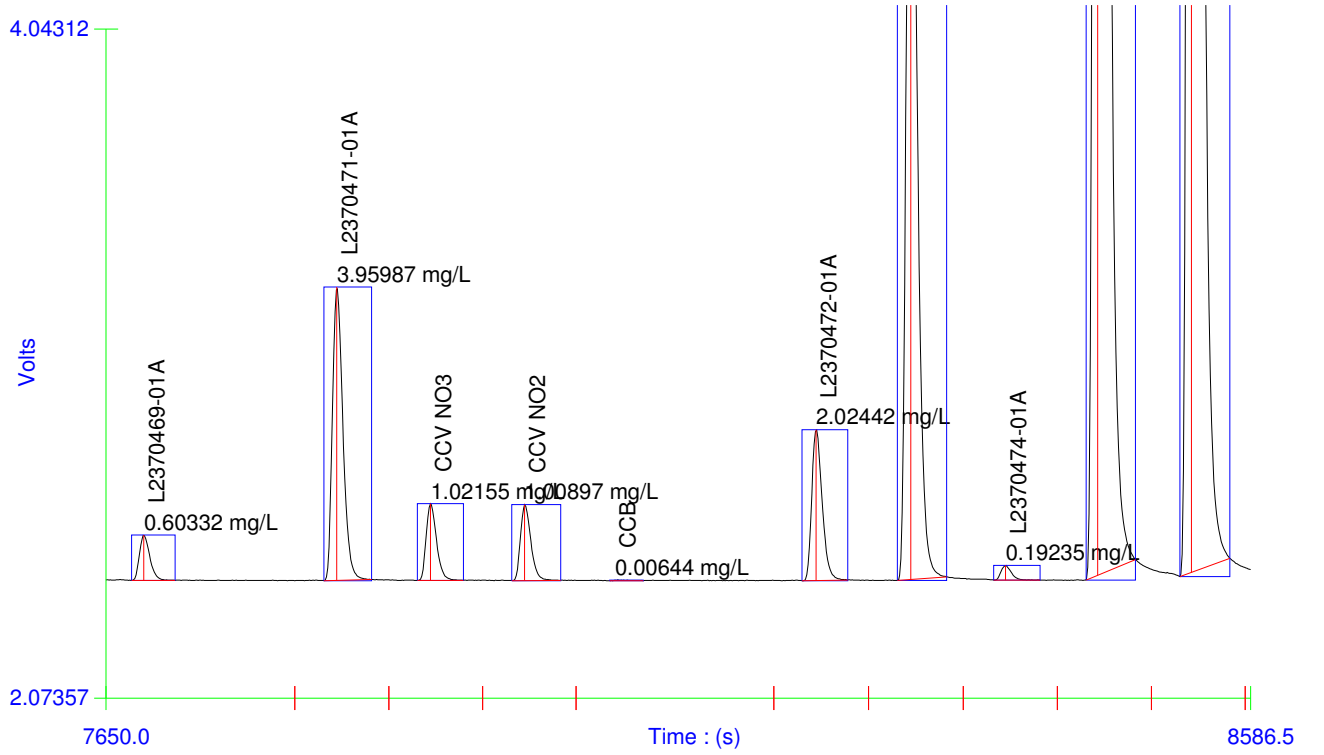
Channel 1 (NO3+NO2) - Set: 8 / 20



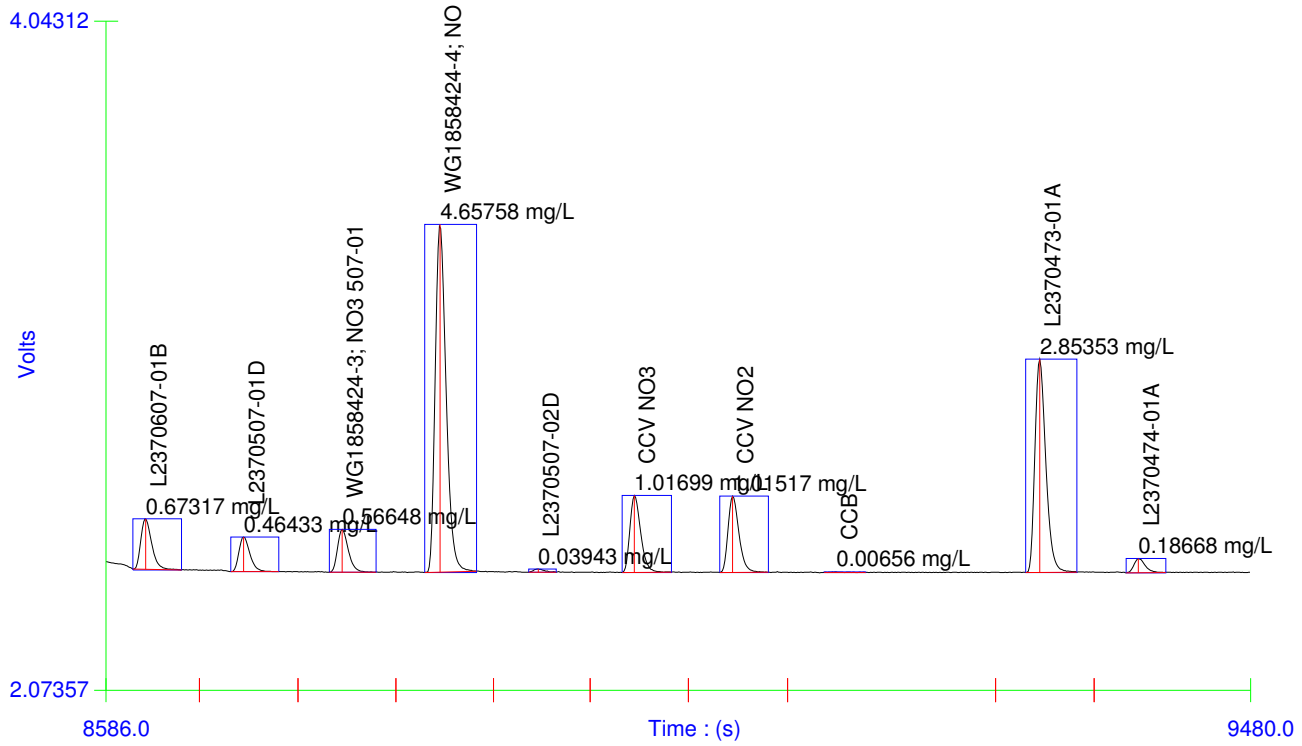
Channel 1 (NO3+NO2) - Set: 9 / 20



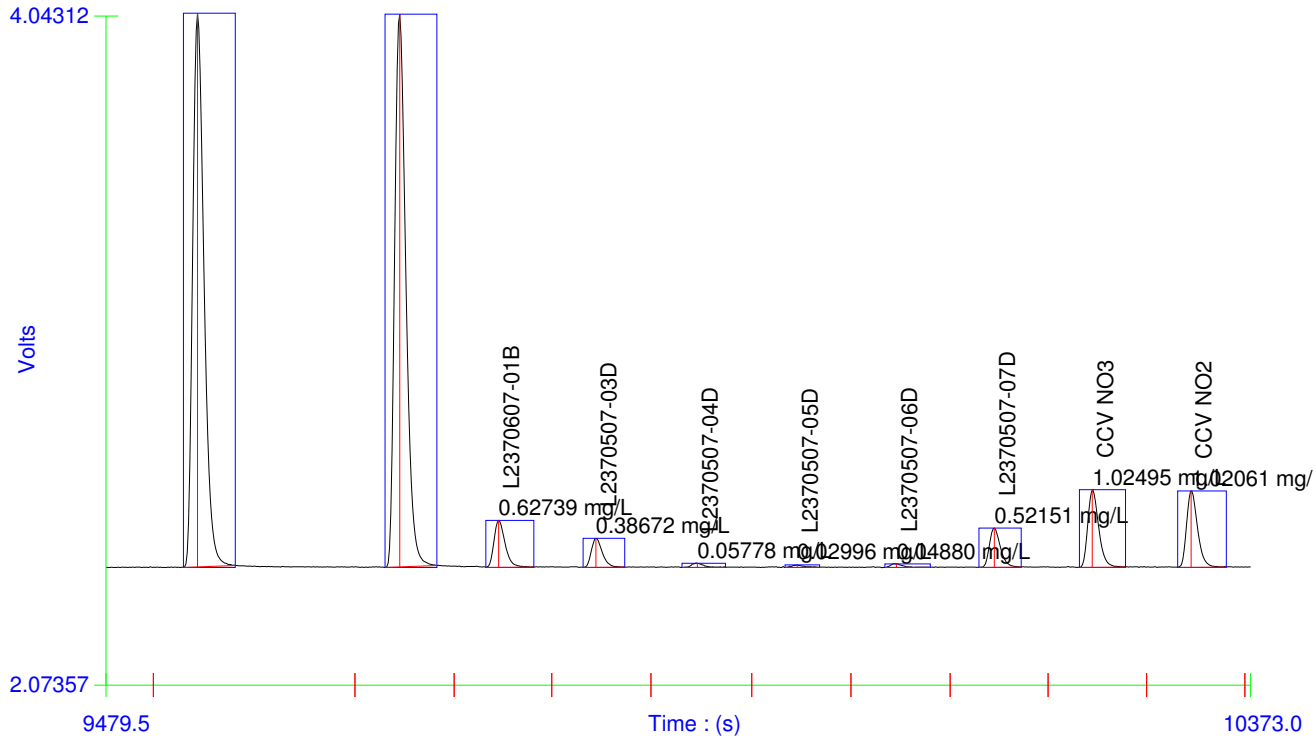
Channel 1 (NO3+NO2) - Set: 10 / 20



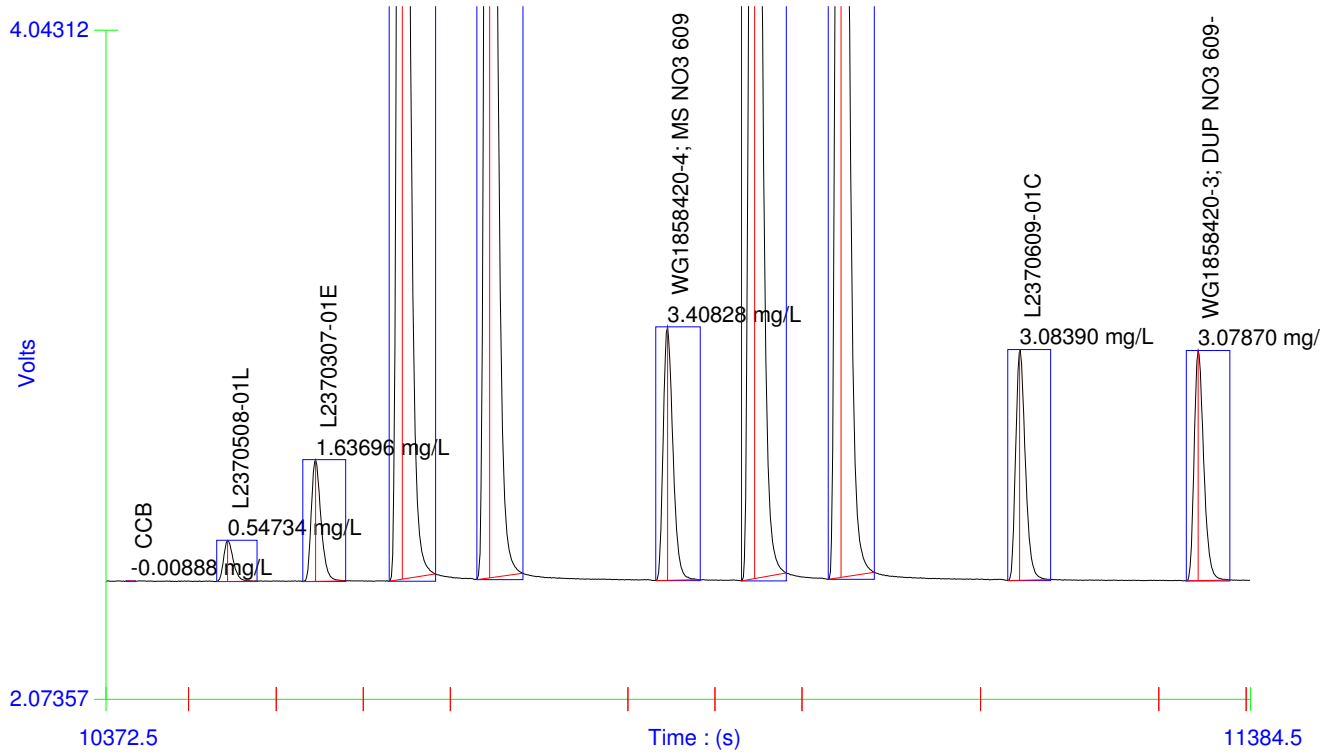
Channel 1 (NO3+NO2) - Set: 11 / 20



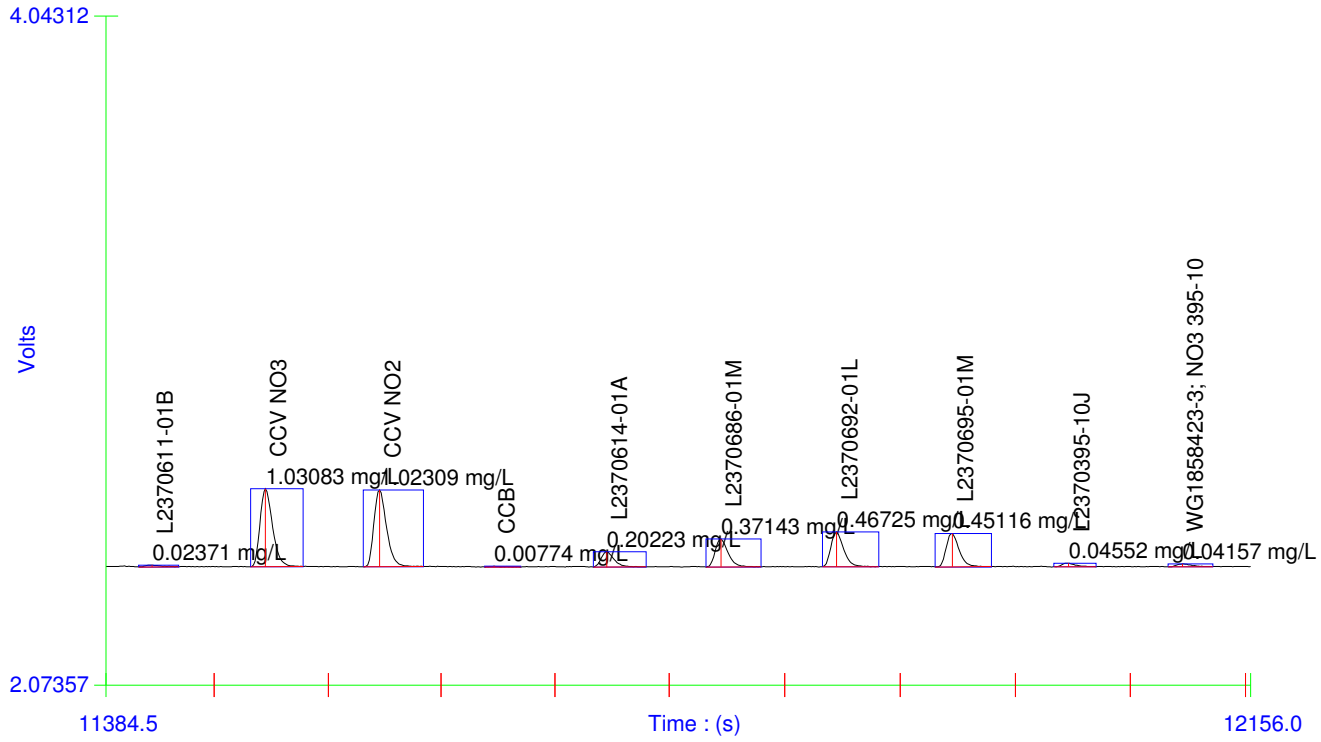
Channel 1 (NO3+NO2) - Set: 12 / 20



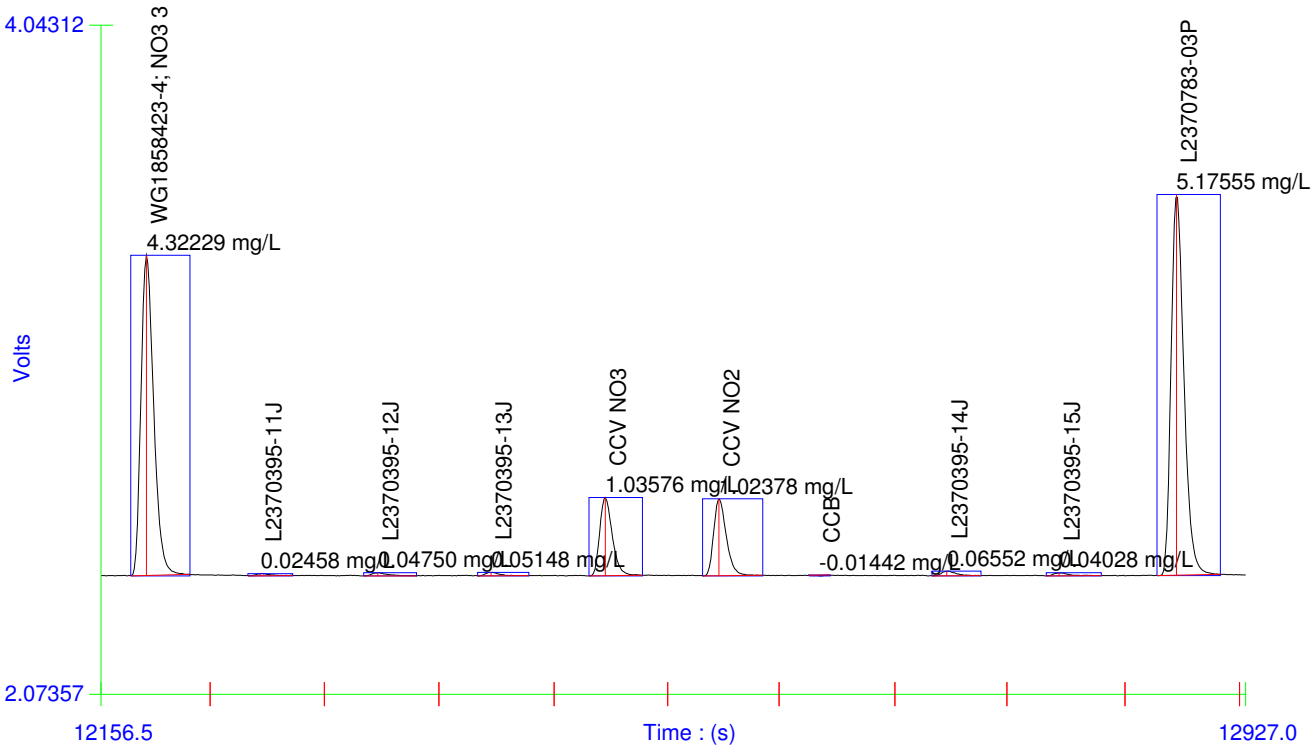
Channel 1 (NO3+NO2) - Set: 13 / 20



Channel 1 (NO3+NO2) - Set: 14 / 20



Channel 1 (NO3+NO2) - Set: 15 / 20



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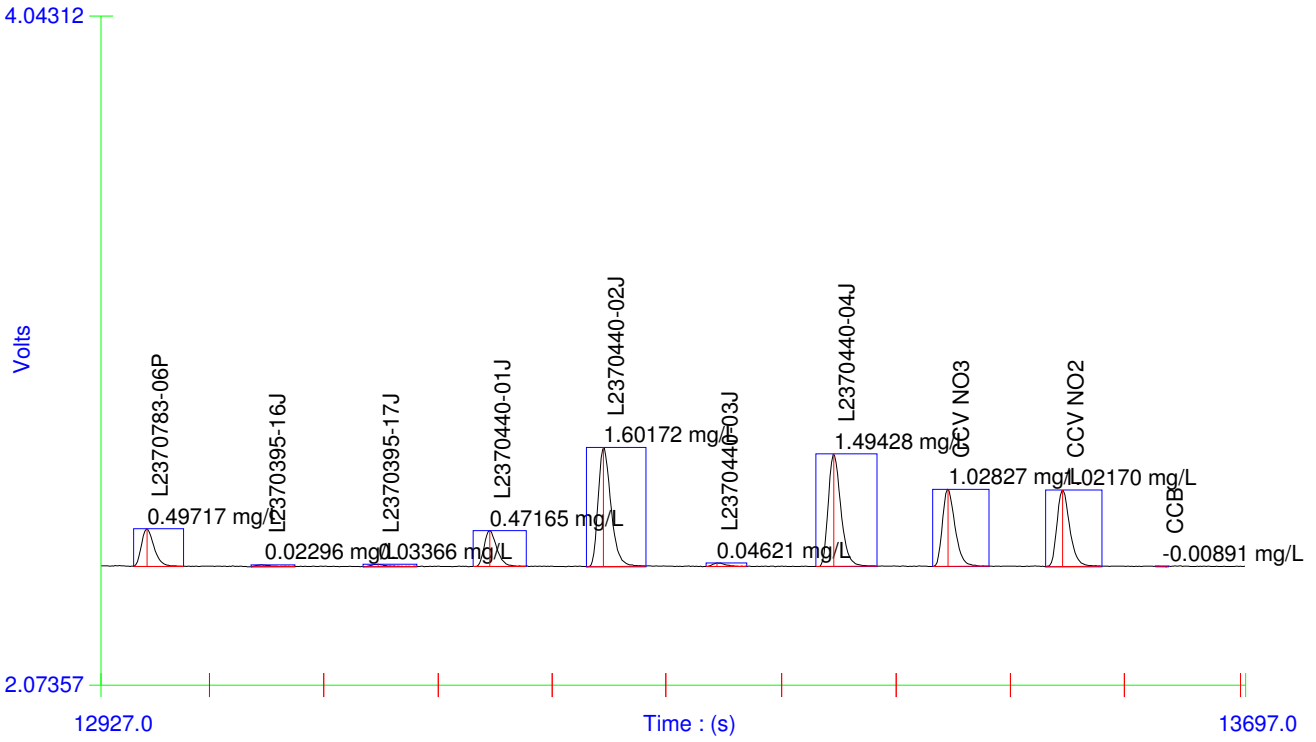
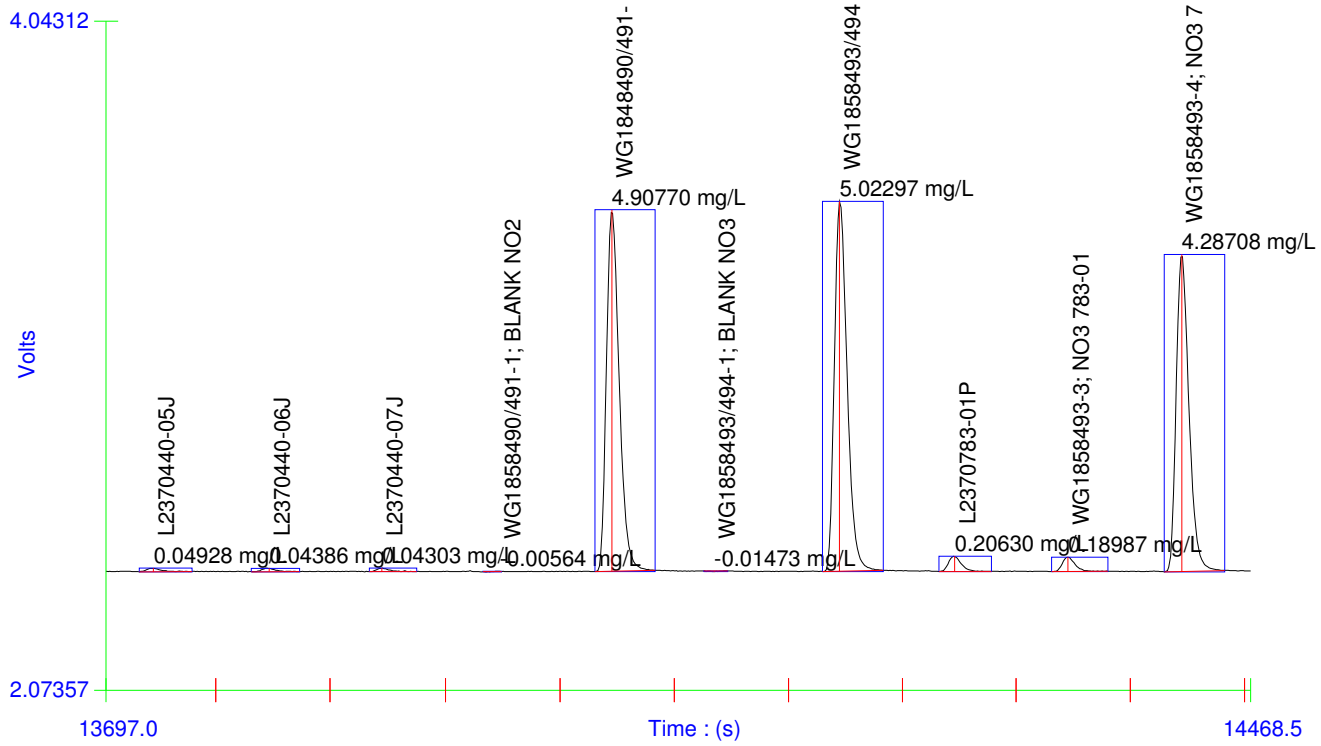
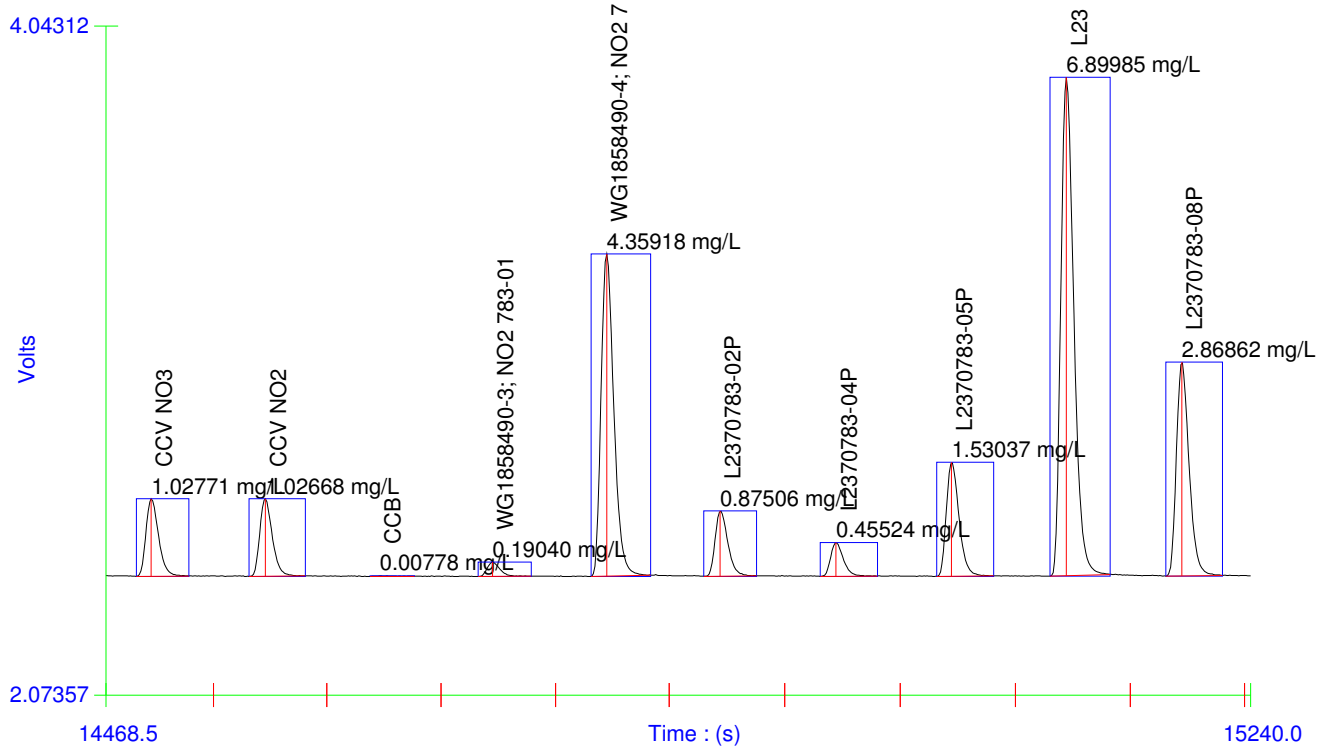


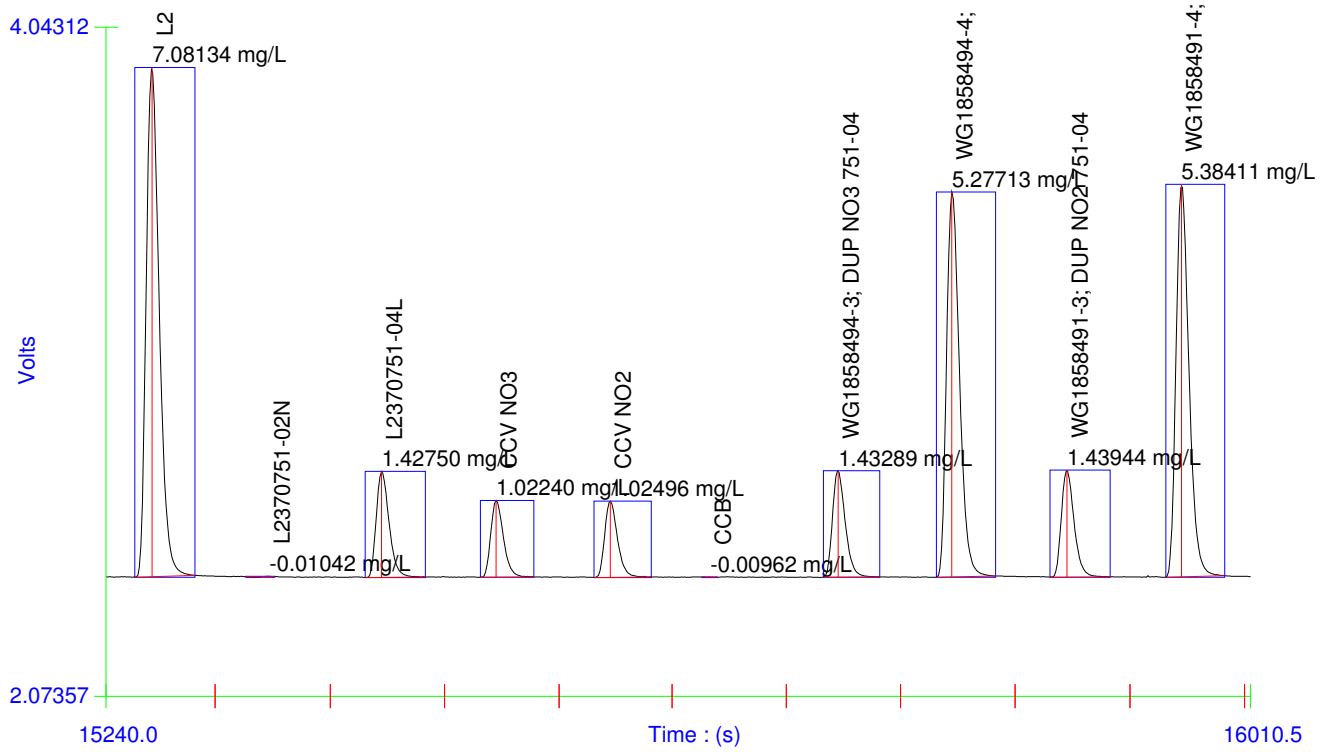
Channel 1 (NO3+NO2) - Set: 17 / 20



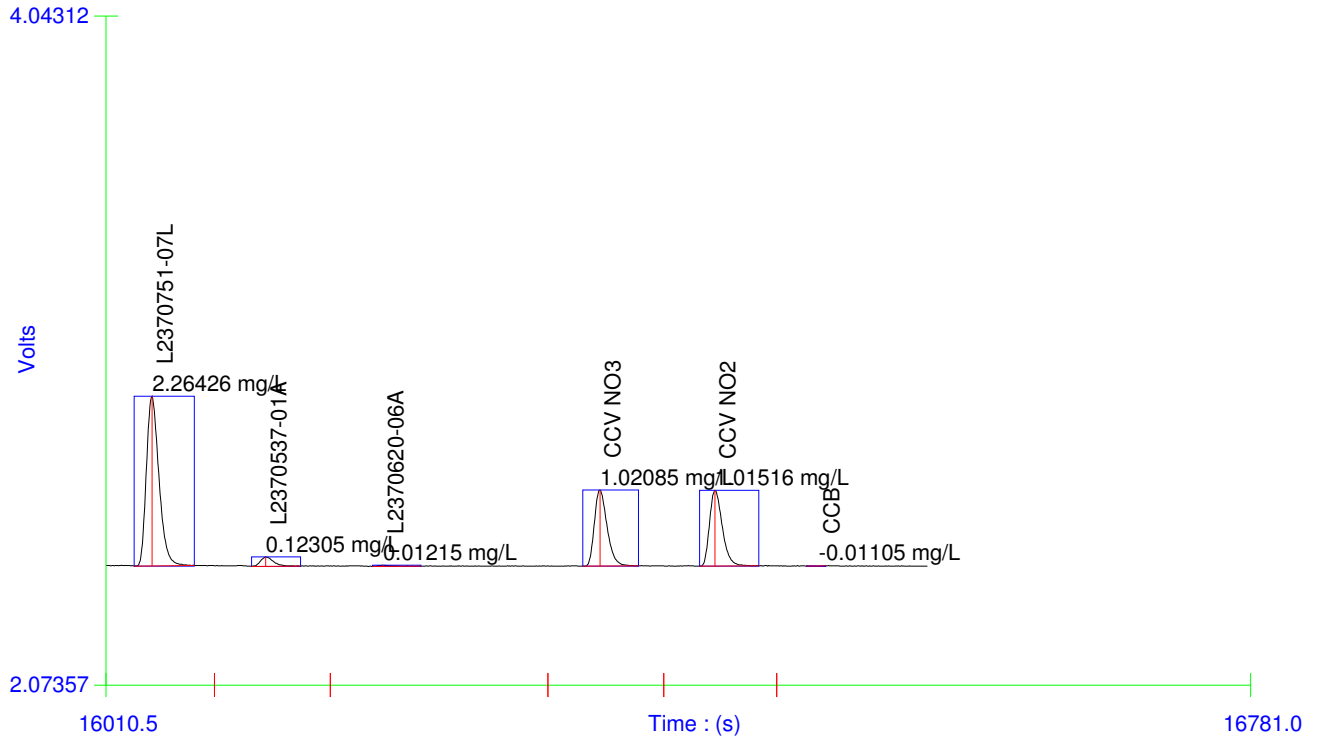
Channel 1 (NO3+NO2) - Set: 18 / 20



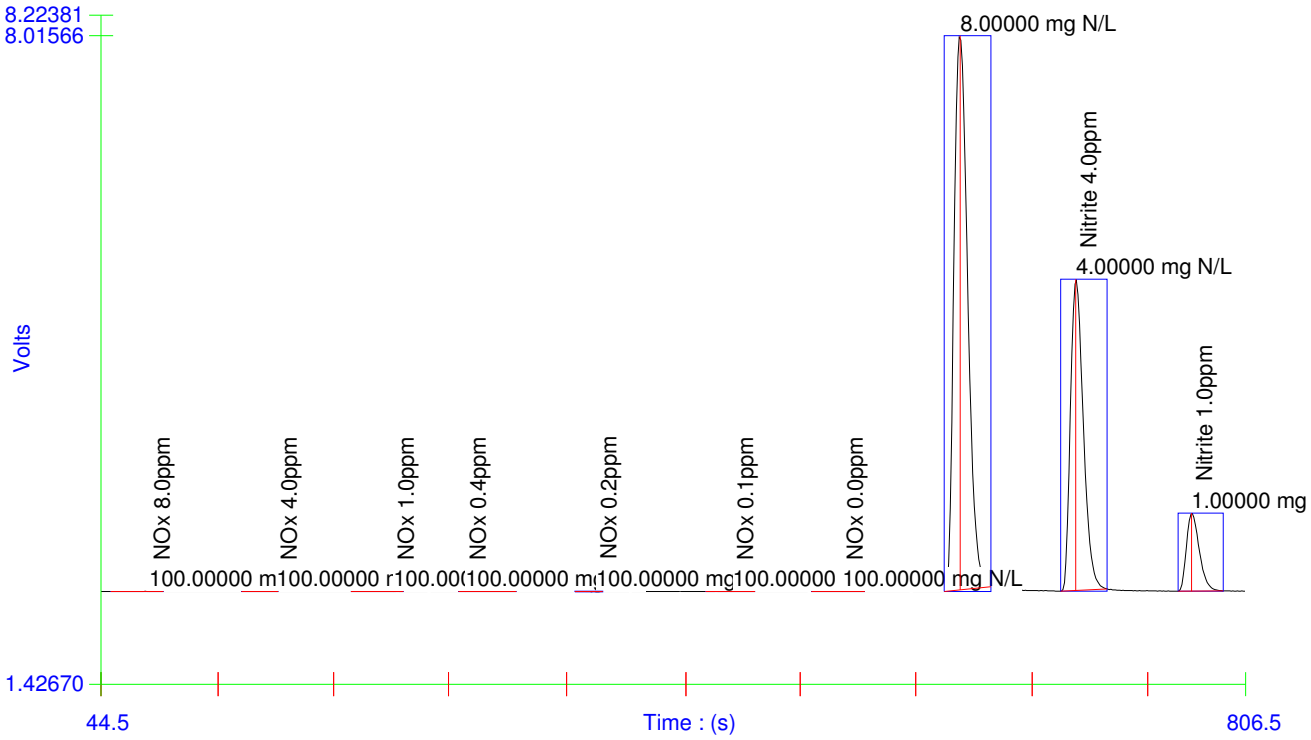
Channel 1 (NO3+NO2) - Set: 19 / 20



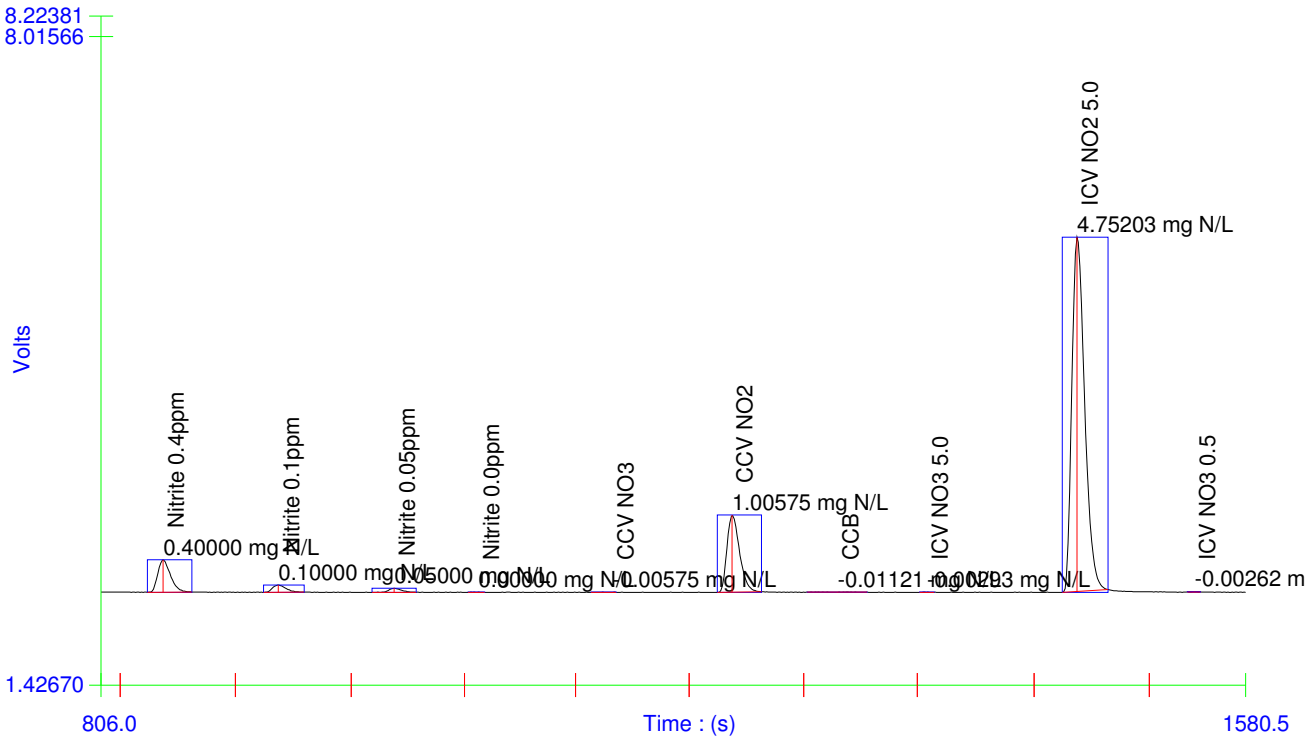
Channel 1 (NO3+NO2) - Set: 20 / 20



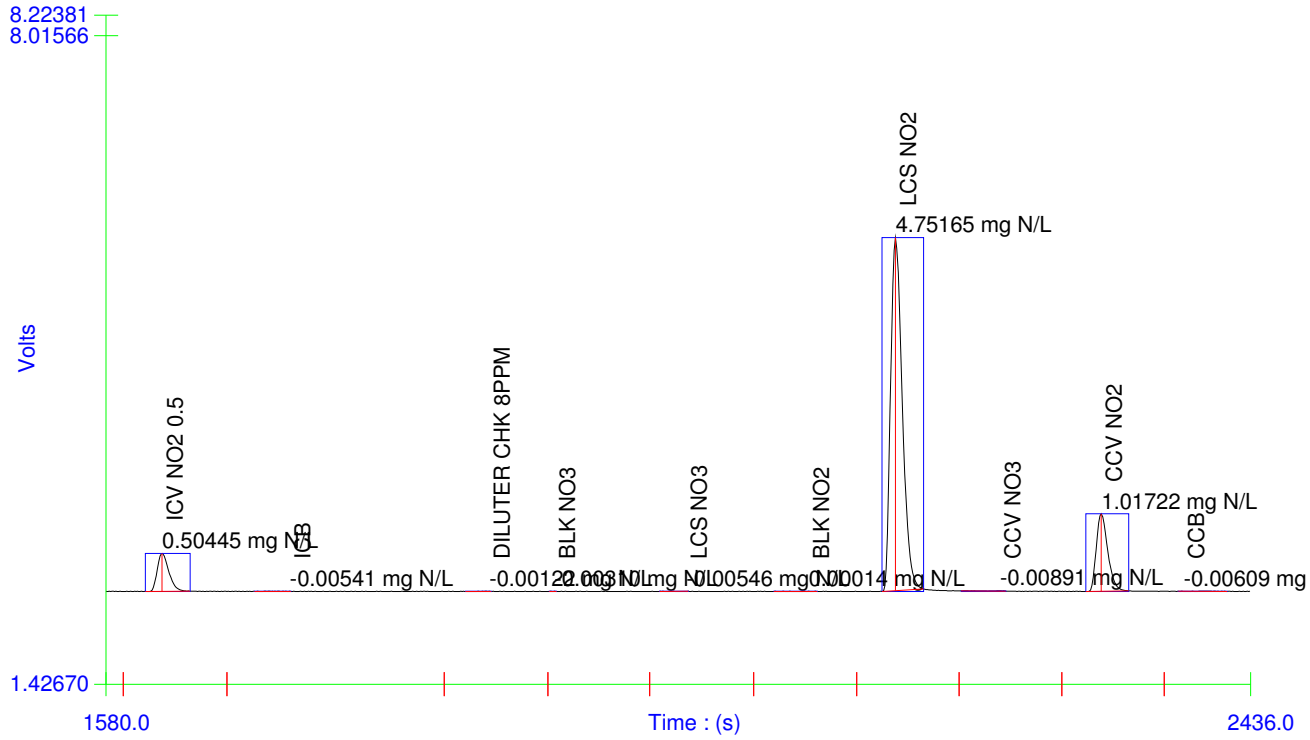
Channel 2 (NO2) - Set: 1 / 20



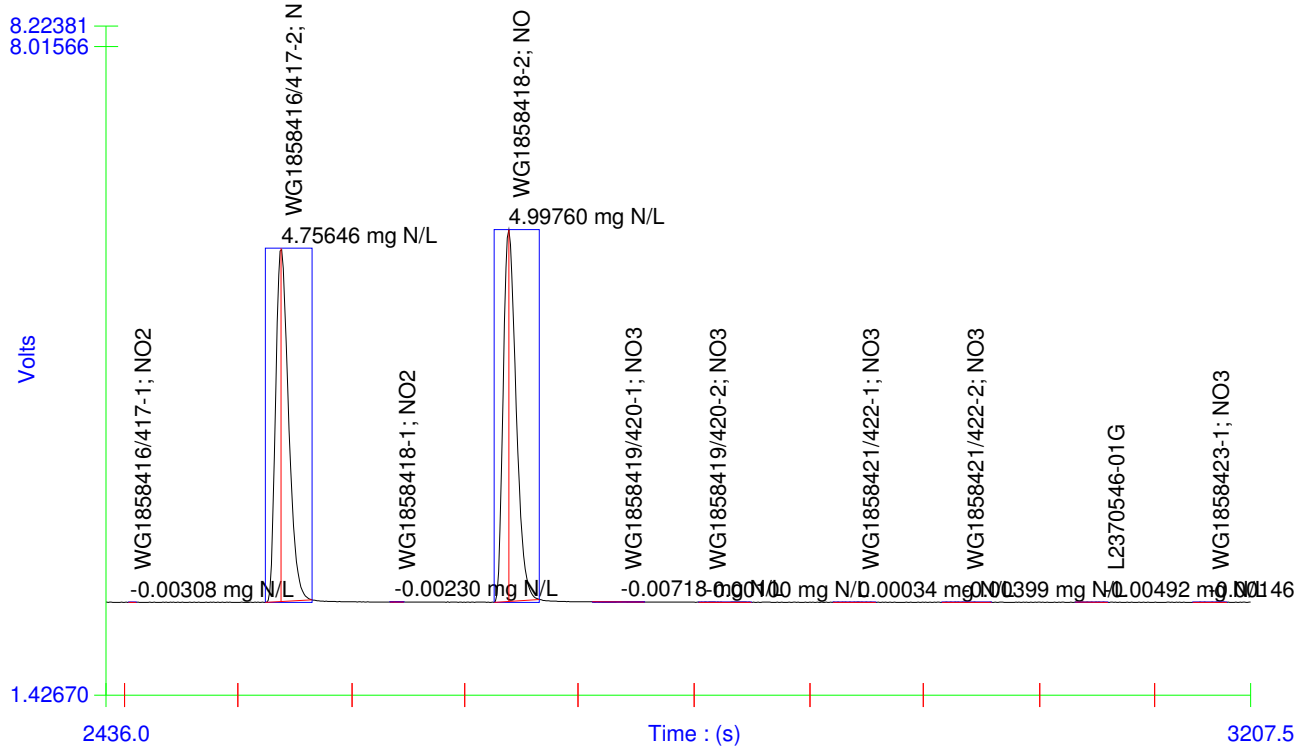
Channel 2 (NO2) - Set: 2 / 20



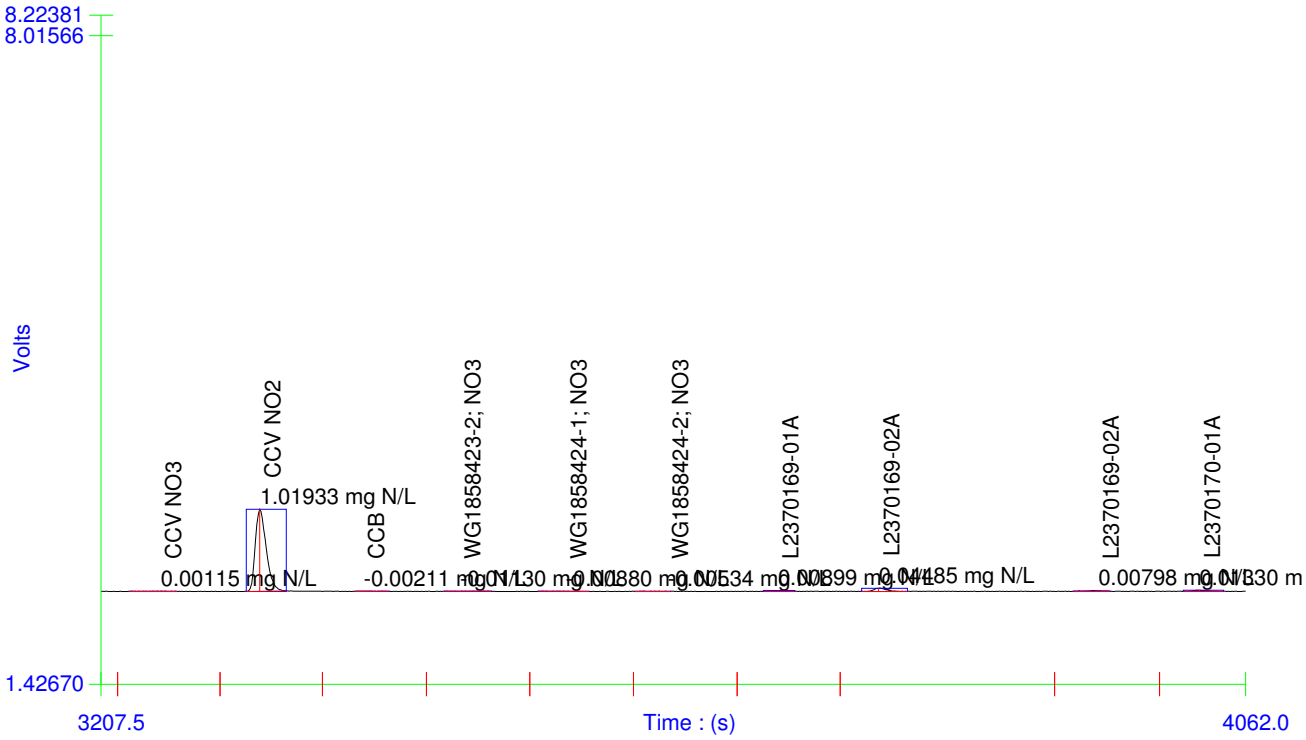
Channel 2 (NO2) - Set: 3 / 20



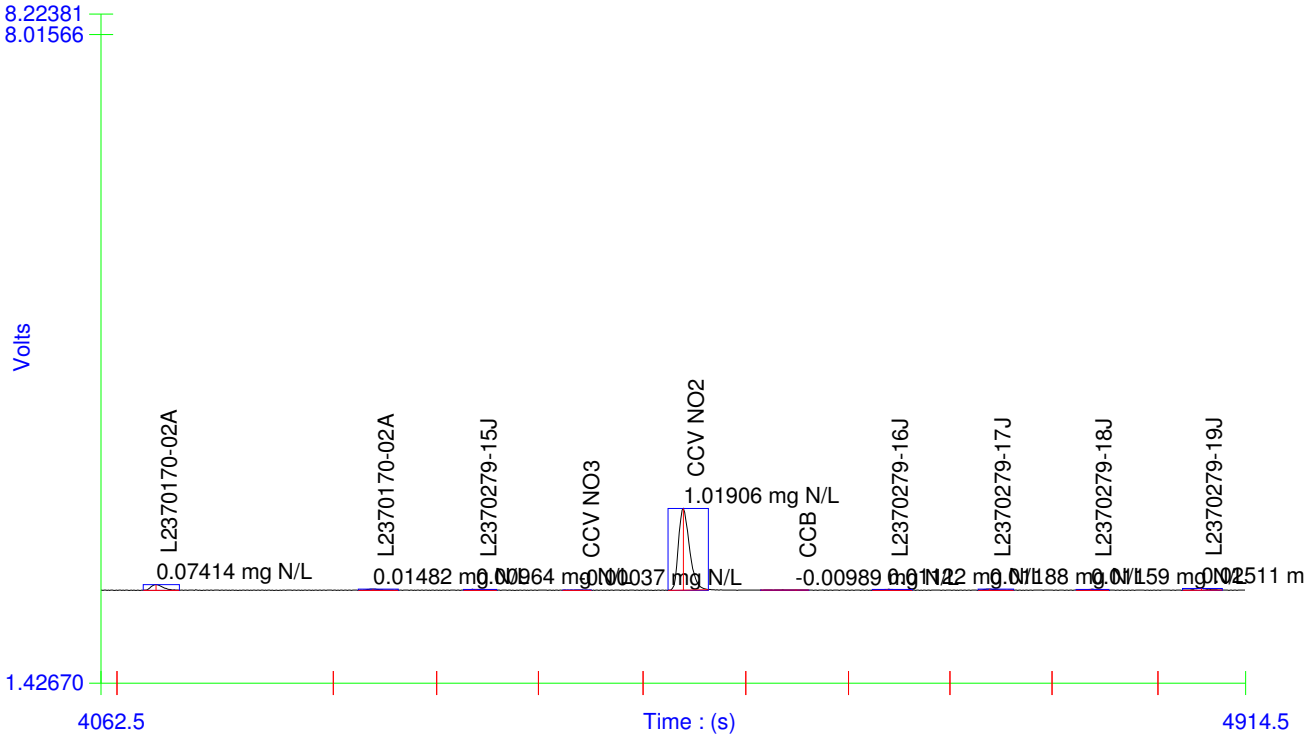
Channel 2 (NO2) - Set: 4 / 20



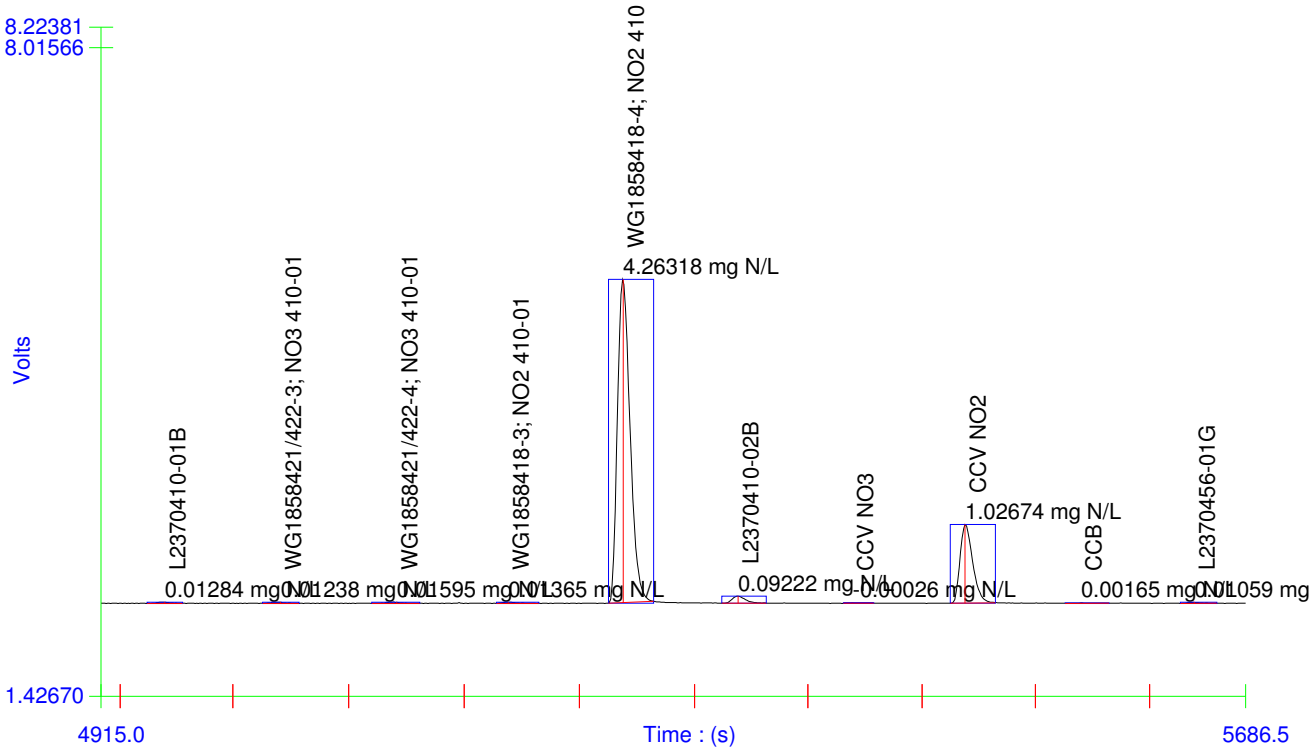
Channel 2 (NO2) - Set: 5 / 20



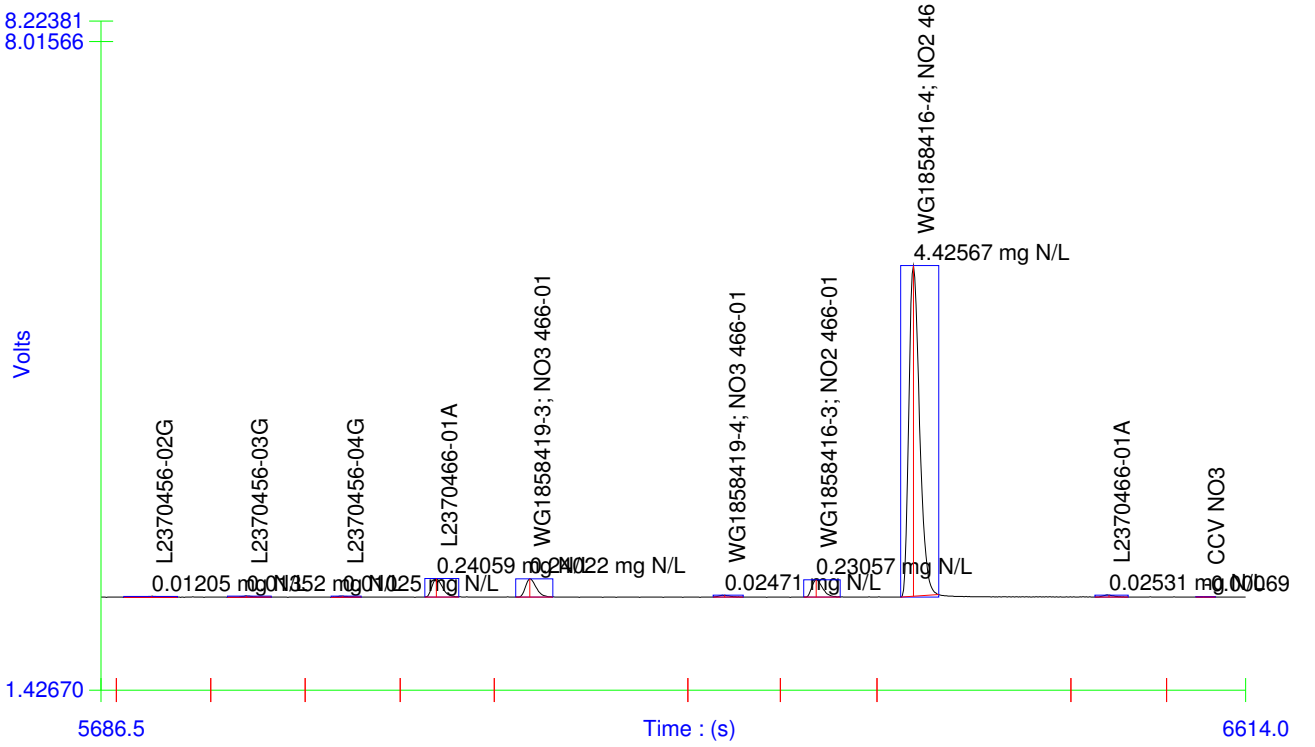
Channel 2 (NO2) - Set: 6 / 20



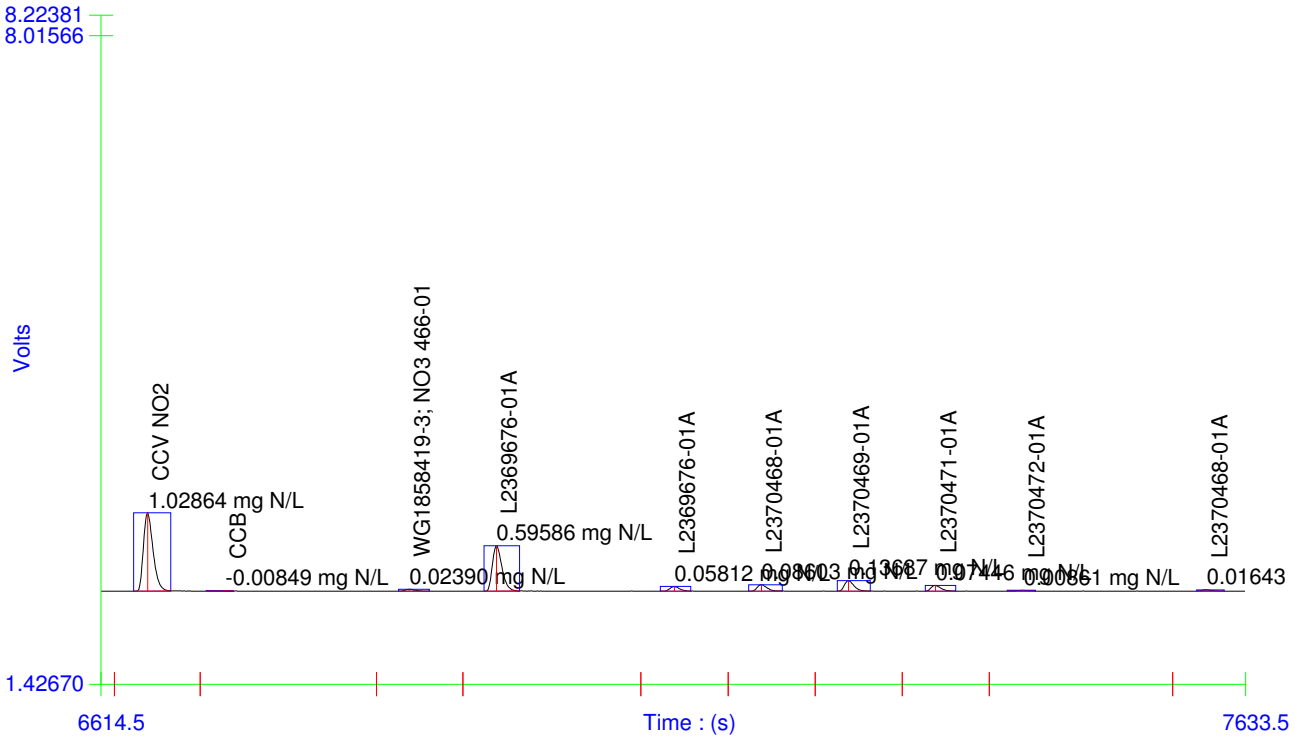
Channel 2 (NO2) - Set: 7 / 20



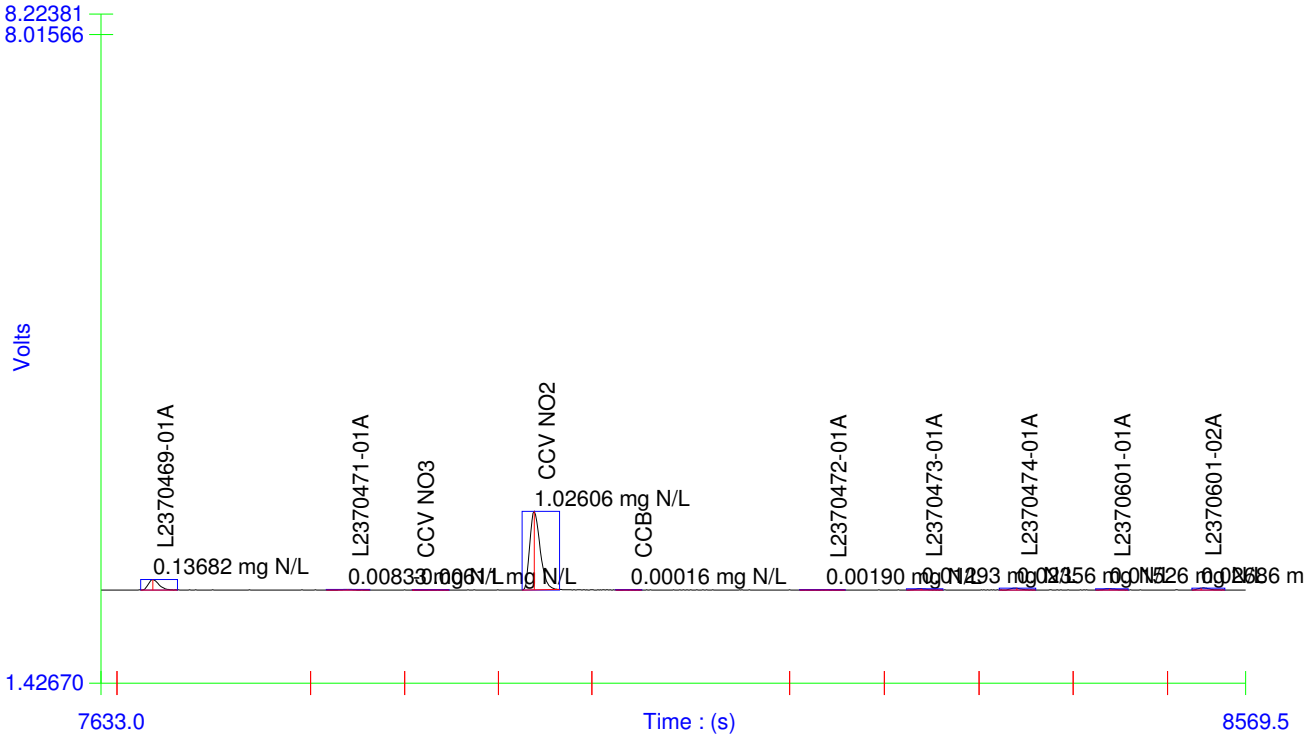
Channel 2 (NO2) - Set: 8 / 20



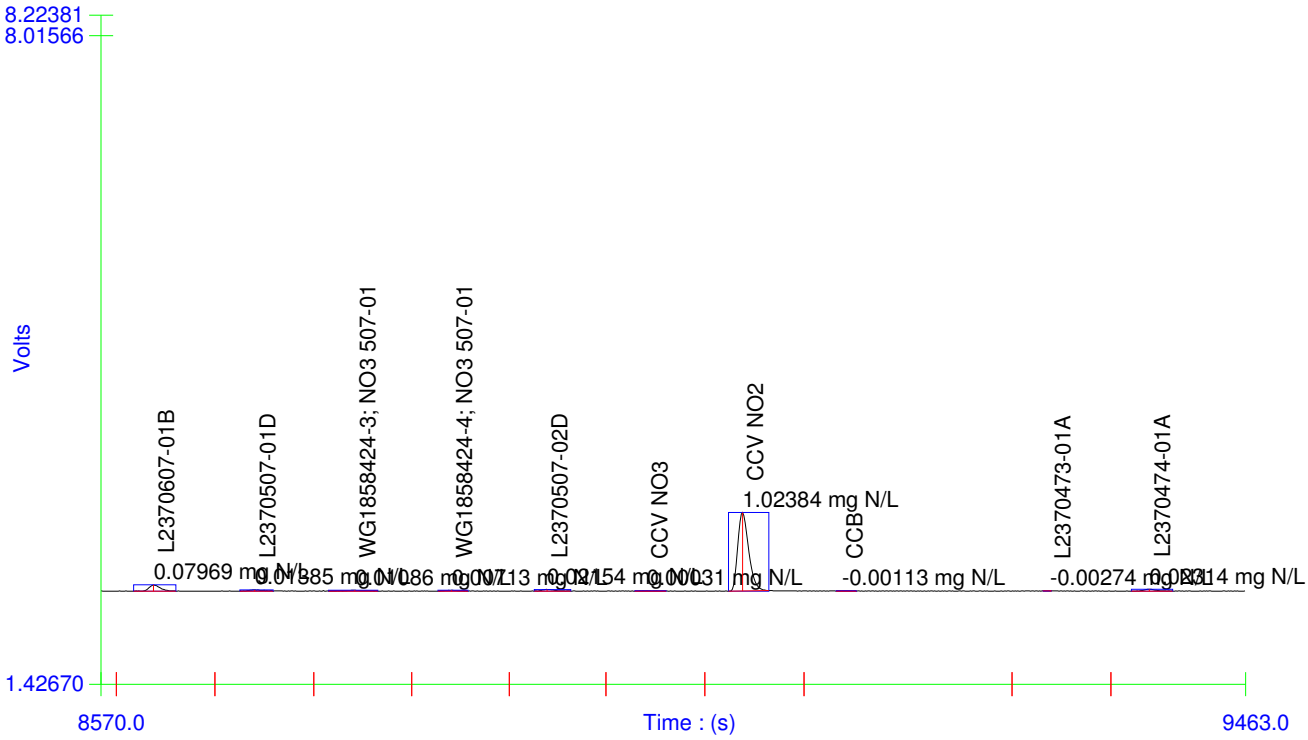
Channel 2 (NO2) - Set: 9 / 20



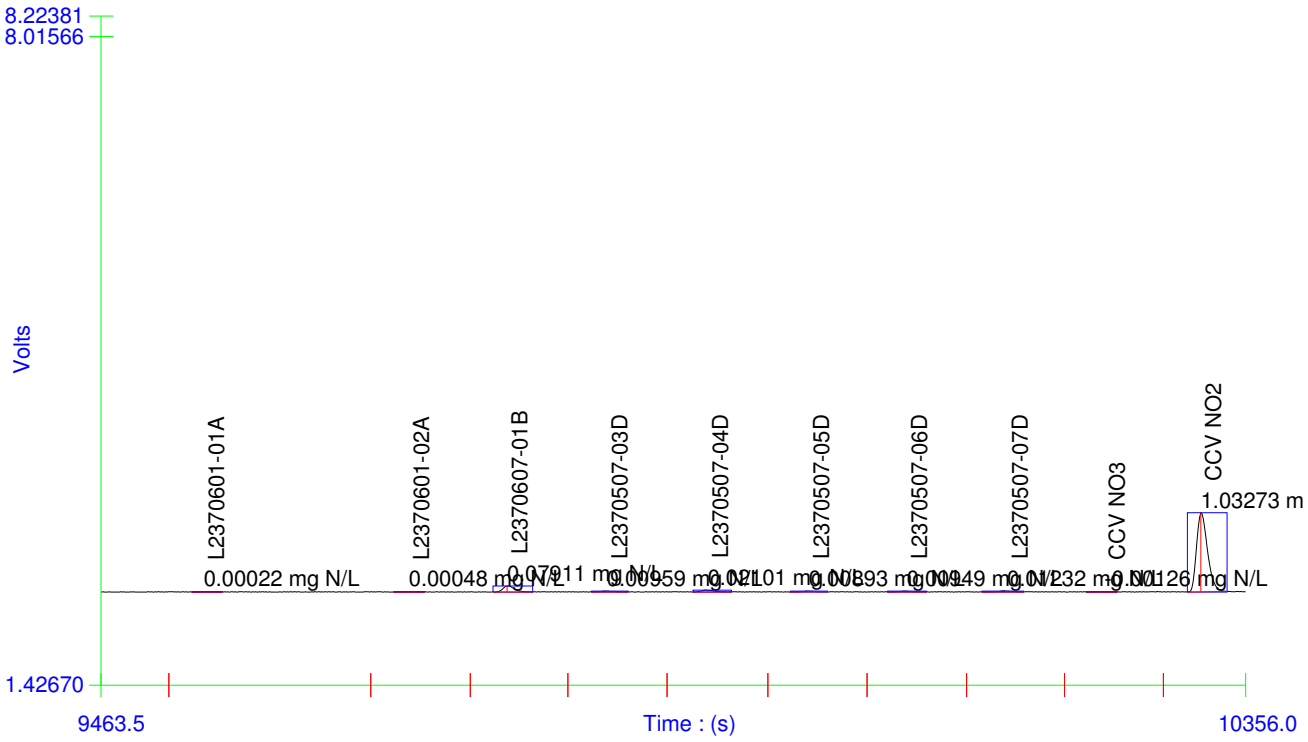
Channel 2 (NO2) - Set: 10 / 20



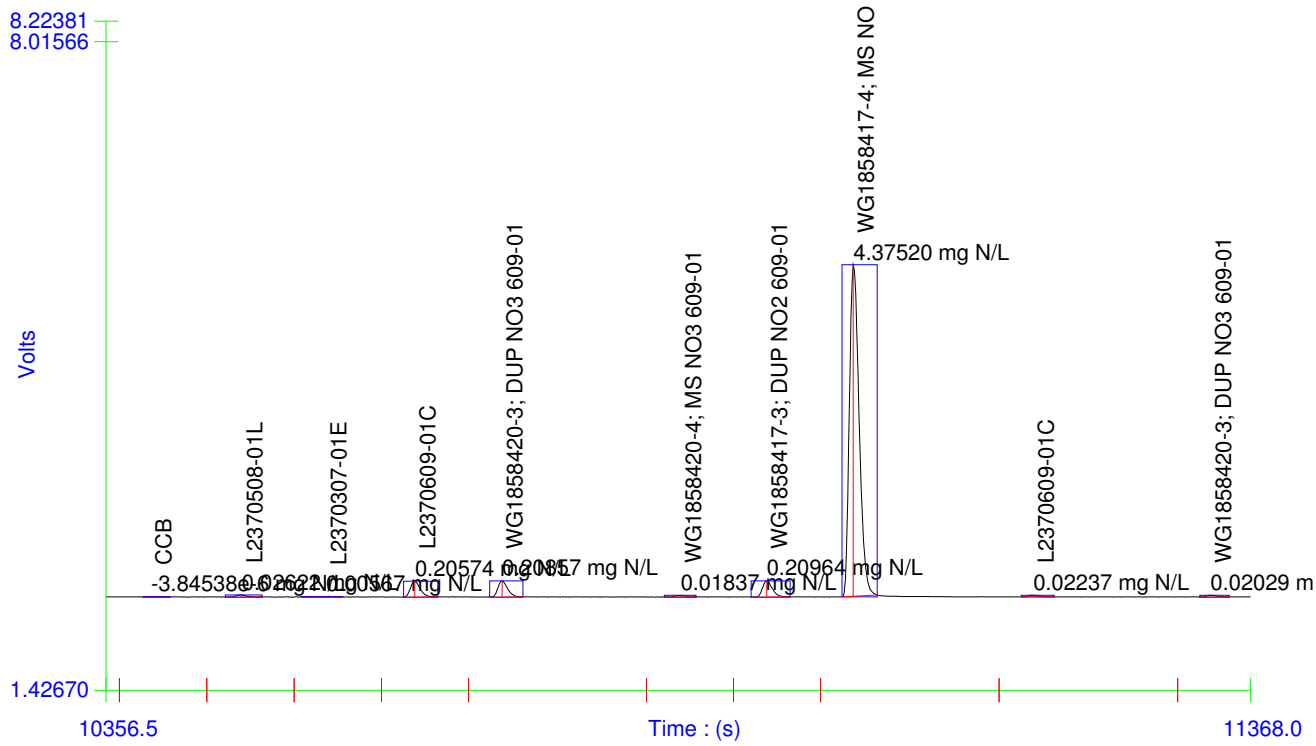
Channel 2 (NO2) - Set: 11 / 20



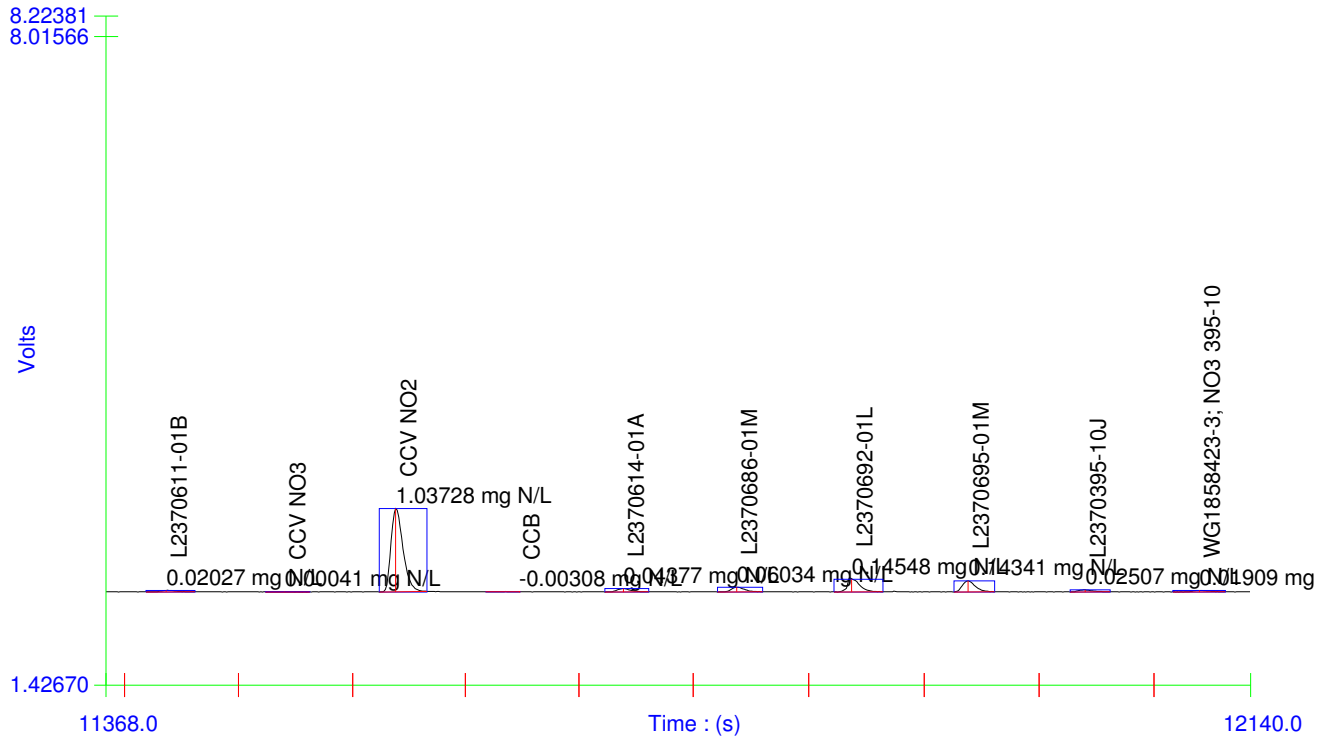
Channel 2 (NO2) - Set: 12 / 20



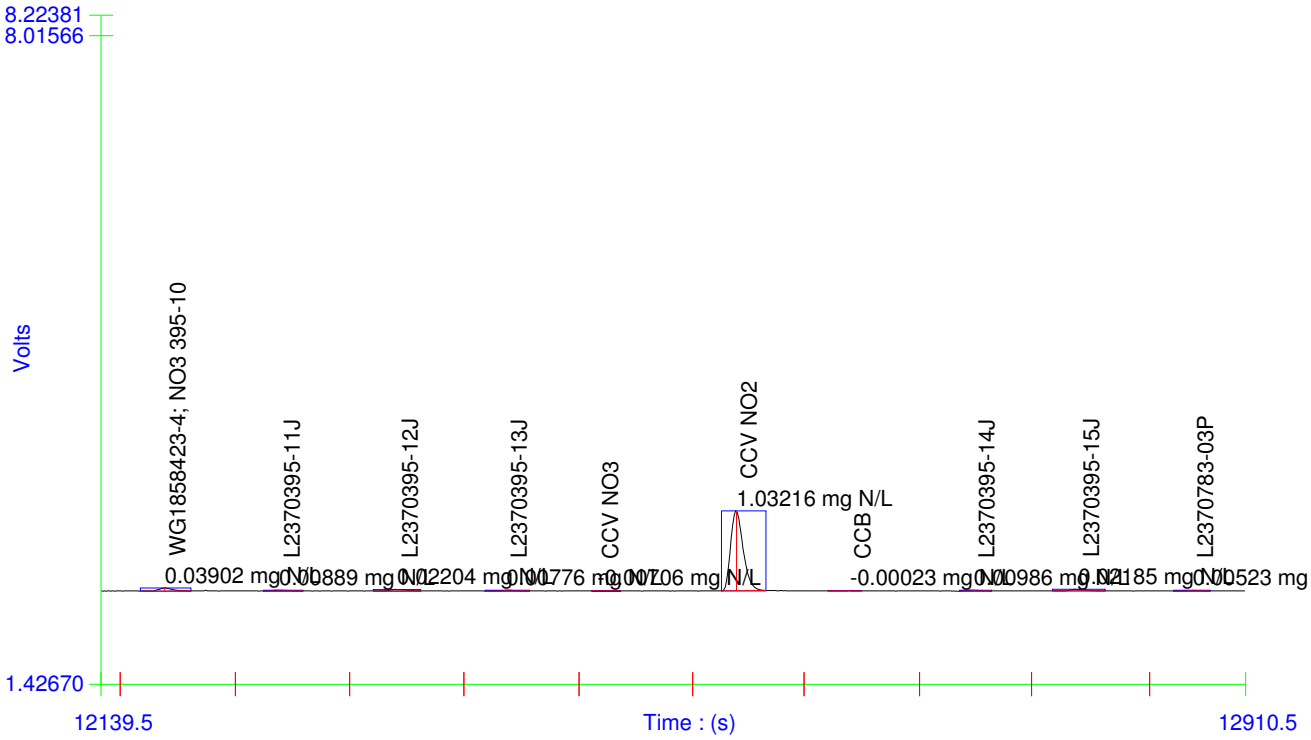
Channel 2 (NO2) - Set: 13 / 20



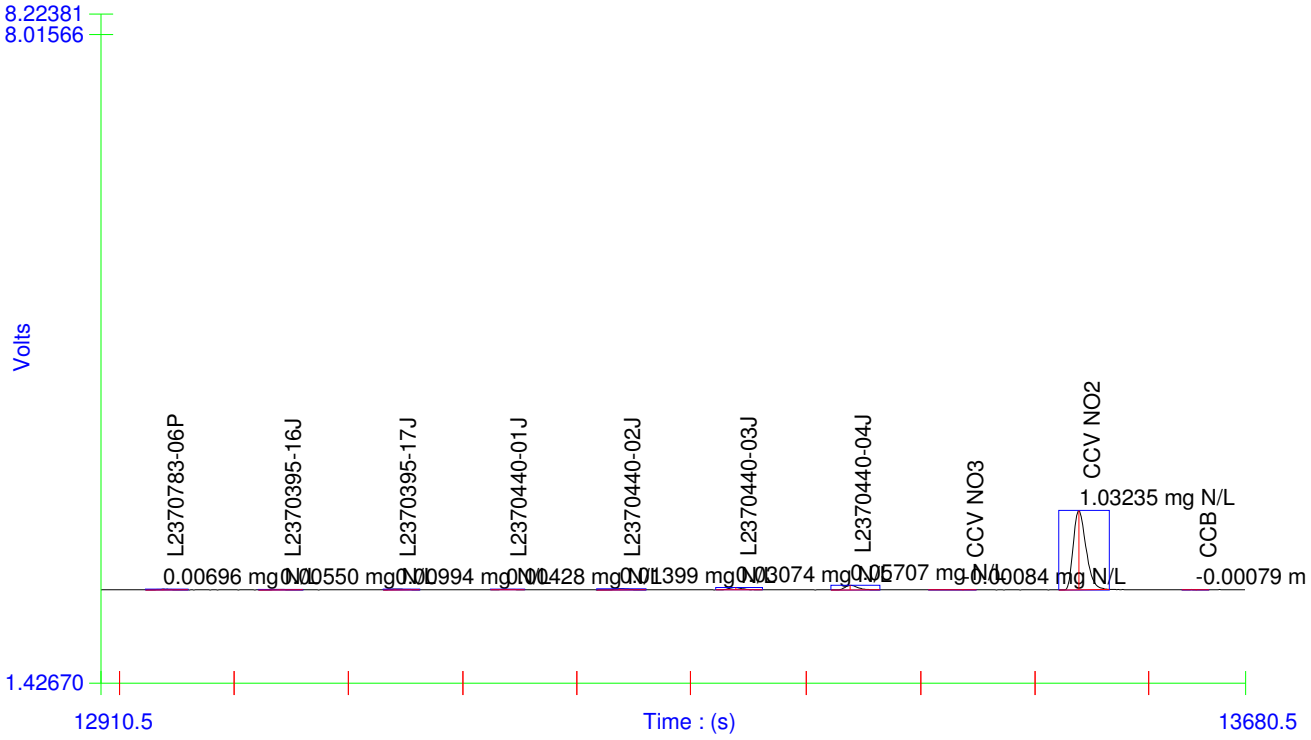
Channel 2 (NO2) - Set: 14 / 20



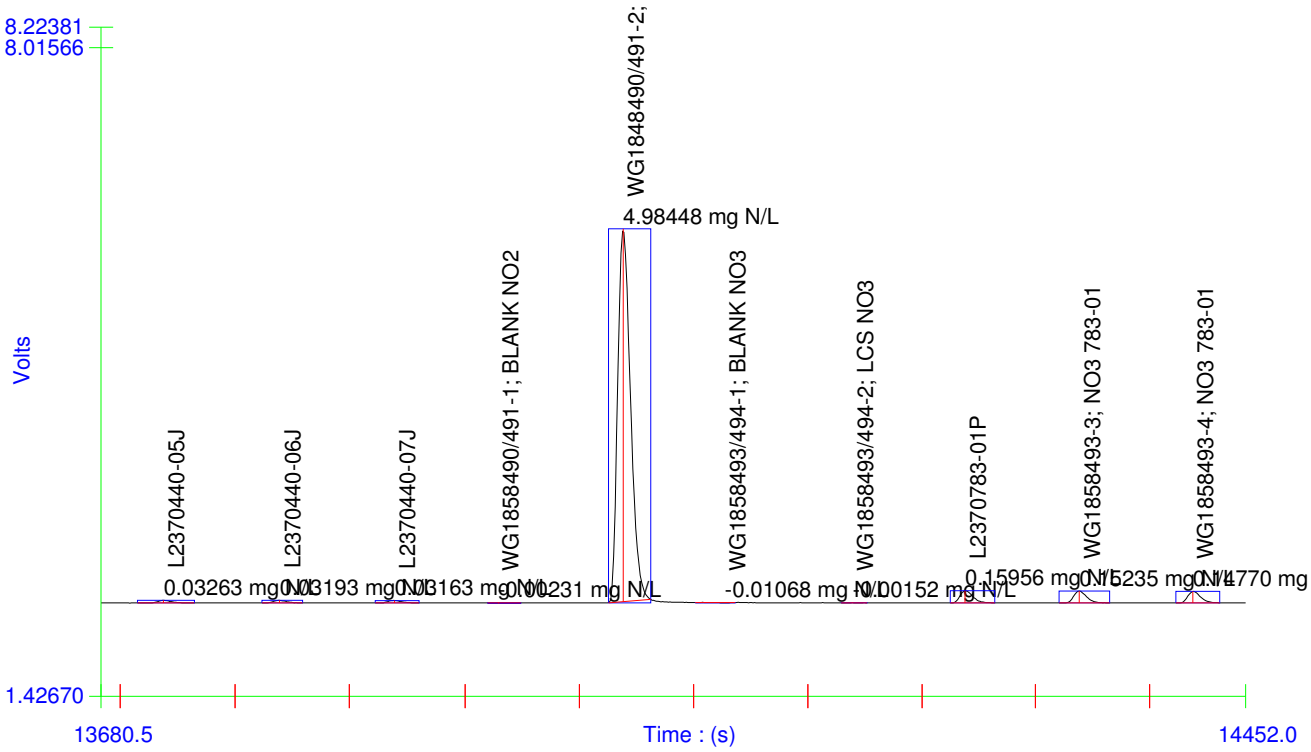
Channel 2 (NO2) - Set: 15 / 20



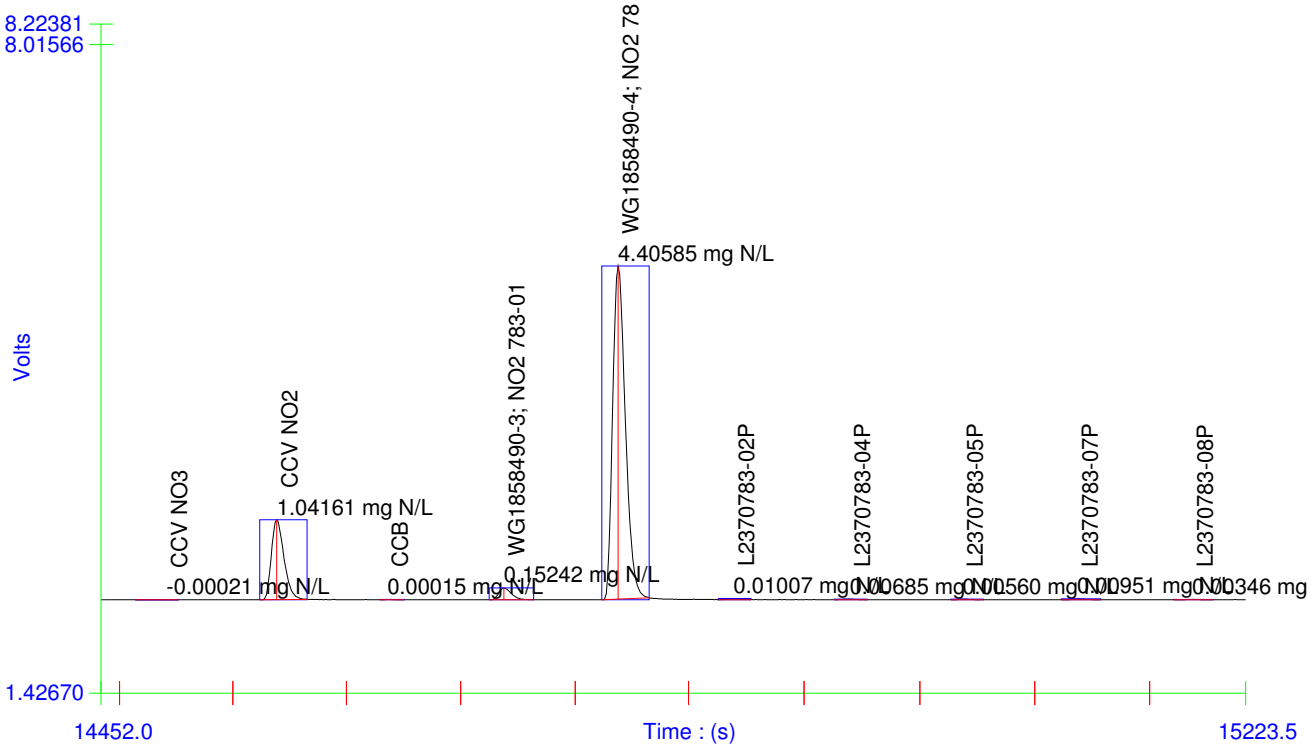
Channel 2 (NO2) - Set: 16 / 20



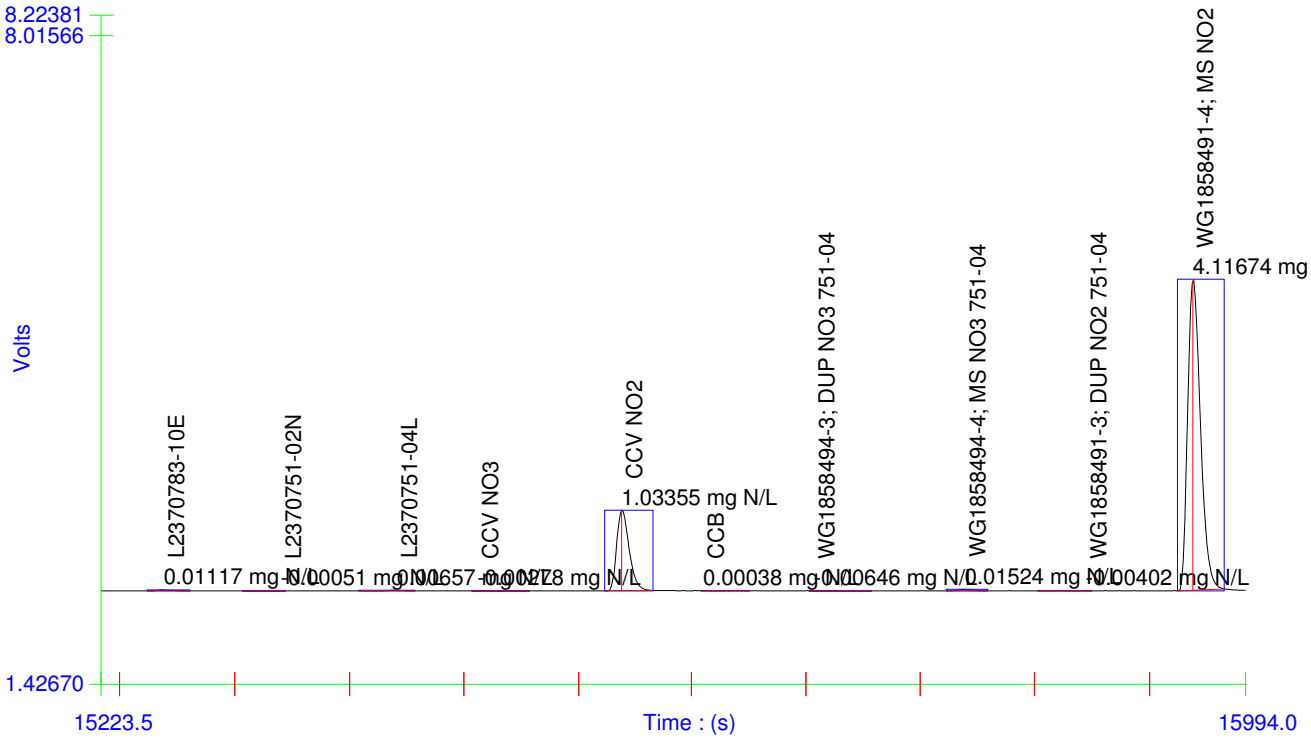
Channel 2 (NO2) - Set: 17 / 20



Channel 2 (NO2) - Set: 18 / 20



Channel 2 (NO2) - Set: 19 / 20



Channel 2 (NO2) - Set: 20 / 20

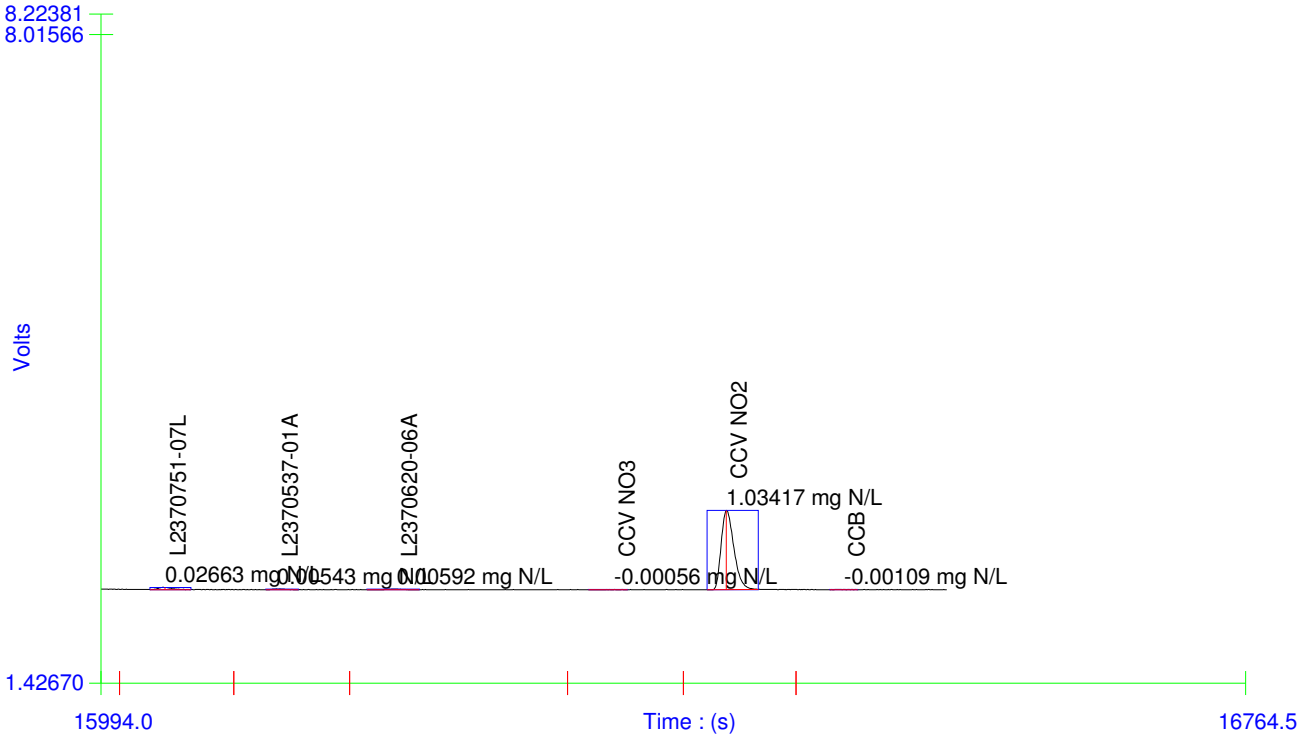
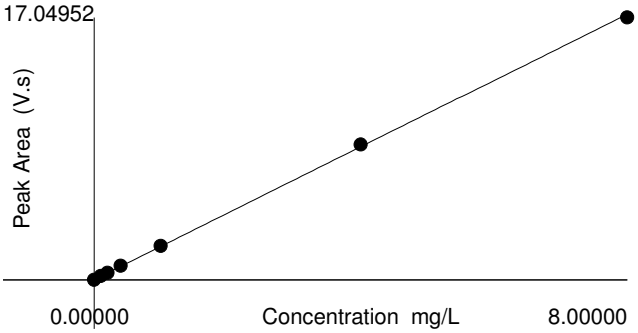


Table : 1 (NO3+NO2)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	8.00000	1	17.04952	1.70365	0.0	1.2	7.89956	12/1/2023	5:23:49 AM
2	4.00000	1	8.78082	0.90913	0.0	-1.7	4.06541	12/1/2023	5:25:07 AM
3	1.00000	1	2.19904	0.22935	0.0	-1.4	1.01349	12/1/2023	5:26:24 AM
4	0.40000	1	0.90184	0.09308	0.0	-3.0	0.41198	12/1/2023	5:27:41 AM
5	0.20000	1	0.45181	0.04652	0.0	-1.6	0.20331	12/1/2023	5:28:59 AM
6	0.10000	1	0.23436	0.02302	0.0	-2.3	0.10248	12/1/2023	5:30:19 AM
7	0.00000	1	-0.00574	-0.00096			-0.00886	12/1/2023	5:31:36 AM

Figure : 1 (NO3+NO2)



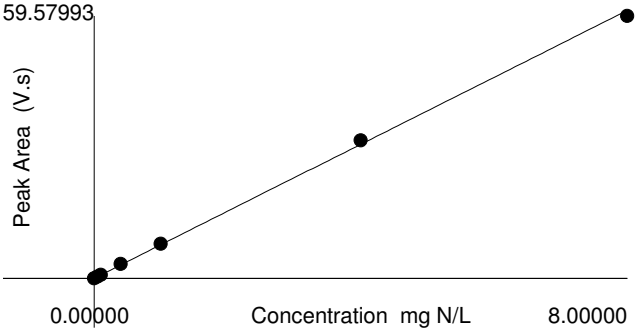
Area = 2.15594 * Conc + 0.01350
Conc = 0.46369 * Area - 0.00620
Correlation Coefficient (r) = 0.99998

Weighting : 1/x

Table : 2 (Nitrite)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	8.00000	1	59.57993	5.62782	0.0	2.1	7.82660	12/1/2023	5:32:53 AM
2	4.00000	1	31.37035	3.16084	0.0	-3.0	4.11909	12/1/2023	5:34:10 AM
3	1.00000	1	7.83369	0.79237	0.0	-2.6	1.02573	12/1/2023	5:35:27 AM
4	0.40000	1	3.24034	0.32899	0.0	-5.5	0.42204	12/1/2023	5:36:45 AM
5	0.10000	1	0.77211	0.07378	0.0	2.3	0.09765	12/1/2023	5:38:03 AM
6	0.05000	1	0.40570	0.04075	0.0	1.0	0.04949	12/1/2023	5:39:22 AM
7	0.00000	1	0.00808	0.00225			-0.00276	12/1/2023	5:40:38 AM

Figure : 2 (Nitrite)



Area = 7.60323 * Conc + 0.02973
Conc = 0.13143 * Area - 0.00383
Correlation Coefficient (r) = 0.99998

Weighting : 1/x

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2370783-01		
Matrix Spike	: WG1858859-4	**MS Analysis Date**	: 12/01/23 09:23
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrate/Nitrite	**0.21**	**4**	**4.3**	**102**					**80-120**	**20**

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2370783-01	**Analysis Date**	: 12/01/23 09:20
Dup Sample ID	: WG1858859-3	**DUP Analysis Date**	: 12/01/23 09:22

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	0.21	0.19	10	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1858859-2	**LCS Analysis Date**	: 12/01/23 09:19
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Nitrogen, Nitrate/Nitrite	**5.00**	**5.00**	**100.**					**90-110**	**20**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	6	6	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.1	0.0228	mg/l	90-110		83-113	17	17	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	353.2	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrite	NONE	0.05	0.0143	mg/l	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Plastic 250ml unpreserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Nitrogen, Nitrate	14797-55-8	1	0.261	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved
Nitrogen, Nitrite	NONE	1	0.282	mg/kg	90-110	20	80-120	20	20	4500NO3-F	48 hours	1 - Glass 250ml/8oz unpreserved

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

Calculations of Nitrogen, Nitrate

Aqueous Samples:
Compute sample N in NO3 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO3+NO2) and Channel 2 (NO2)

$$NO3\ mg/I = (NO3+NO2)\ mg/L - (NO2)\ mg/L$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO3)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:
Compute sample N in NO2 concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO2)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(NO2)\text{-}N\ mg/L = mg/L\ direct\ reading \times dilution\ factor$$

Sequence Logs

Date: 120123

Initals: KAF/OCF

Syringe Lot: 20230410

Filter Lot: 15904235A

Cup #:	Sample ID:
1	**ICV NO3 5**
2	**ICV NO2 5**
3	**ICV NO3 0.5**
4	**ICV NO2 0.5**
5	**ICB**
6	**5X DILUTER CHECK**
7	**BLANK NO3**
8	**LCS NO3**
9	**BLANK NO2**
10	**LCS NO2**
11	**WG1858416/417-1; NO2**
12	**WG1858416/417-2; NO2**
13	**WG1858418-1; NO2**
14	**WG1858418-2; NO2**
15	**WG1858419/420-1; NO3**
16	**WG1858419/420-2; NO3**
17	**WG1858421/422-1; NO3**
18	**WG1858421/422-2; NO3**
19	**WG1858423-1; NO3**
20	**WG1858423-2; NO3**
21	**WG1858424-1; NO3**
22	**WG1858424-2; NO3**
23	**L2370169-01**
24	**L2370169-02**
25	**L2370170-01**
26	**L2370170-02**
27	**L2370279-15**
28	**L2370279-16**
29	**L2370279-17**
30	**L2370279-18**
31	**L2370279-19**
32	**L2370410-01**
33	**WG1858421/422-3; NO3 410-01**
34	**WG1858421/422-4; NO3 410-01**
35	**WG1858418-3; NO2 410-01**
36	**WG1858418-4; NO2 410-01**
37	**L2370410-02**
38	**L2370456-01**
39	**L2370456-02**
40	**L2370456-03**
41	**L2370456-04**
42	**L2370466-01**
43	**WG1858419-3; NO3 466-01**

Comments:

Buffer: NO3NO2_112323_BUFFER

Color: NO3NO2_111623_COLOR

NO3 MS: NO3_111823_200PPM_CAL

NO2 MS: NO2_102623_200PPM_CAL

ICV NO3 5: NO3_120123_5PPM_ICV

ICV NO2 5: NO2_120123_5PPM_ICV

ICV NO3 0.5: NO3_120123_0.5PPM_ICV

ICV NO2 0.5: NO2_120123_0.5PPM_ICV

OOH

DW

GOING OOH

FIELD BLANK

Cup #:	Sample ID:	Comments:
44	**WG1858419-4; NO3 466-01**	
45	**WG1858416-3; NO2 466-01**	
46	**WG1858416-4; NO2 466-01**	
47	**L2370468-01**	
48	**L2370469-01**	
49	**L2370471-01**	
50	**L2370472-01**	
51	**L2370473-01**	
52	**L2370474-01**	
53	**L2370601-01**	
54	**L2370601-02**	
55	**L2370607-01**	
56	**L2370507-01**	
57	**WG1858424-3; NO3 507-01**	
58	**WG1858424-4; NO3 507-01**	
59	**L2370507-02**	
60	**L2370507-03**	
61	**L2370507-04**	
62	**L2370507-05**	
63	**L2370507-06**	
64	**L2370507-07**	
65	**L2370508-01**	
66	**L2369676-01**	CONFIRM
67	**L2370307-01**	
68	**L2370609-01**	
69	**WG1858420-3; NO3 609-01**	
70	**WG1858420-4; NO3 609-01**	
71	**WG1858417-3; NO2 609-01**	
72	**WG1858417-4; NO2 609-01**	
73	**L2370611-01**	
74	**L2370614-01**	
75	**L2370686-01**	
76	**L2370692-01**	
77	**L2370695-01**	
78	**L2370395-10**	
79	**WG1858423-3; NO3 395-10**	
80	**WG1858423-4; NO3 395-10**	
81	**L2370395-11**	
82	**L2370395-12**	
83	**L2370395-13**	
84	**L2370395-14**	
85	**L2370395-15**	
86	**L2370395-16**	
87	**L2370395-17**	
88	**L2370440-01**	
89	**L2370440-02**	

Cup #:	Sample ID:	Comments:
90	**L2370440-03**	
91	**L2370440-04**	
92	**L2370440-05**	
93	**L2370440-06**	
94	**L2370440-07**	
95	**l2370546-01g**	
96	**WG1858490/491-1; NO2**	
97	**WG1858490/491-2; NO2**	
98	**WG1858493/494-1; NO3**	
99	**WG1858493/494-2; NO3**	
100	**L2370783-01**	
101	**WG1858493-3; NO3 783-01**	
102	**WG1858493-4; NO3 783-01**	
103	**WG1858490-3; NO2 783-01**	
104	**WG1858490-4; NO2 783-01**	
105	**L2370783-02**	
106	**L2370783-03**	
107	**L2370783-04**	
108	**L2370783-05**	
109	**L2370783-06**	
110	**L2370783-07**	
111	**L2370783-08**	
112	**L2370783-10**	
113	**L2370751-02**	
114	**L2370751-04**	
115	**WG1858494-3; NO3**	
116	**WG1858494-4; NO3**	
117	**WG1858491-3; NO2**	
118	**WG1858491-4; NO2**	
119	**L2370751-07**	
120	**l2370537-01a**	
121	**l2370620-06a**	
122		
123		
124		
125		
126		
127		
128		
129		
130		
131		
132		
133		
134		
135		

Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1859293.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	400	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1859293.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total Dissolved**	**210**	**13**	**4.0**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1859293.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	180	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1859293.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	170	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1859293.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	110	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1859293.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	480	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1859293.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	430	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1859293.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total Dissolved**	**120**	**13**	**4.0**	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-10	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP2	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1859293.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	470	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859293-1	**Date Collected**	: NA
Client ID	: WG1859293-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/04/23 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1859293.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	ND	10	3.1	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859293-3	**Date Collected**	: 11/29/23 14:00
Client ID	: WG1859293-3 DUP	**Date Received**	: 11/29/23
Sample Location	:	**Date Analyzed**	: 12/04/23 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1859293.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	190	13	4.0	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859293-4	**Date Collected**	: 11/29/23 14:00
Client ID	: WG1859293-4 DUP	**Date Received**	: 11/29/23
Sample Location	:	**Date Analyzed**	: 12/04/23 05:26
Sample Matrix	: WATER	**Dilution Factor**	: 1.3
Analytical Method	: 121,2540C	**Analyst**	: DEW
Lab File ID	: WG1859293.pdf	**Instrument ID**	: BALANCE#22
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	Solids, Total Dissolved	250	13	4.0	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: DEC-06-23 11:29:38

WorkGroup	WG1859293	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**					
Method	SM2540C	**Time In**	05-DEC-23 01:50	**Time In**	05-DEC-23 05:26	**Time In**	05-DEC-23 08:36	**Time In**	05-DEC-23 09:54	**Time In**					
Instrument	BALANCE#22	**Time Out**	05-DEC-23 04:16	**Time Out**	05-DEC-23 08:16	**Time Out**	05-DEC-23 09:52	**Time Out**	06-DEC-23 04:41	**Time Out**					

Evaporation	**Temp In (C)**	**Time In**	**LCS Lot #**	**TrueValue**	**Units**
	90	04-DEC-23 10:58	110723D	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID	Filter Lot	Tare Weight (gm)	Sample Volume (ml)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Net Weight (5) (gm)	Result mg/L	Dil	Comment
L2370351-01	04-DEC-23 05:26	DEB WHELAN	BE	71156397	66.6752	80	66.6896	66.6899				180.00	1.3	
L2370351-02	04-DEC-23 05:26	DEB WHELAN	CH	71156397	67.203	80	67.2257	67.2256				282.50	1.3	
L2370351-03	04-DEC-23 05:26	DEB WHELAN	MC	71156397	63.7842	80	63.8378	63.8381				670.00	1.3	
L2370351-04	04-DEC-23 05:26	DEB WHELAN	CK	71156397	53.658	80	53.69	53.6896				395.00	1.3	
L2370351-05	04-DEC-23 05:26	DEB WHELAN	RQ	71156397	65.3622	80	65.365	65.3646				30.00	1.3	
L2370351-06	04-DEC-23 05:26	DEB WHELAN	CO	71156397	59.4115	80	59.416	59.4163				56.25	1.3	
L2370351-07	04-DEC-23 05:26	DEB WHELAN	EY	71156397	65.0388	80	65.0434	65.0435				57.50	1.3	
L2370351-08	04-DEC-23 05:26	DEB WHELAN	X	71156397	65.4789	80	65.498	65.4984				238.75	1.3	
L2370351-09	04-DEC-23 05:26	DEB WHELAN	A14	71156397	75.1638	80	75.1944	75.1946				382.50	1.3	T4
L2370351-10	04-DEC-23 05:26	DEB WHELAN	AB	71156397	79.6429	80	79.6583	79.6579				187.50	1.3	
L2370351-11	04-DEC-23 05:26	DEB WHELAN	PK	71156397	84.0564	80	84.0669	84.0673				131.25	1.3	
L2370783-01	04-DEC-23 05:26	DEB WHELAN	AR	71156397	80.5785	80	80.6108	80.6108				403.75	1.3	
L2370783-02	04-DEC-23 05:26	DEB WHELAN	MQ	71156397	89.4477	80	89.4646	89.4642				206.25	1.3	
L2370783-03	04-DEC-23 05:26	DEB WHELAN	RG	71156397	137.1656	80	137.1804	137.1822	137.1836	137.1828		185.00	1.3	
L2370783-04	04-DEC-23 05:26	DEB WHELAN	BG4	71156397	147.3749	80	147.3884	147.39	147.3918	147.3898		168.75	1.3	
L2370783-05	04-DEC-23 05:26	DEB WHELAN	DR	71156397	139.5369	80	139.5459	139.5457				110.00	1.3	
L2370783-06	04-DEC-23 05:26	DEB WHELAN	RB	71156397	137.8608	80	137.8988	137.9001	137.9002			475.00	1.3	
L2370783-07	04-DEC-23 05:26	DEB WHELAN	BH	71156397	132.6223	80	132.6571	132.659	132.6599	132.6566		428.75	1.3	
L2370783-08	04-DEC-23 05:26	DEB WHELAN	OQ	71156397	138.4779	80	138.4893	138.4919	138.493	138.4878		123.75	1.3	
L2370783-10	04-DEC-23 05:26	DEB WHELAN	MB	71156397	142.4169	80	142.4547	142.4551				472.50	1.3	
WG1859293-1	04-DEC-23 05:26	DEB WHELAN	CG	71156397	66.7489	100	66.7489	66.7492				0.00	1	T3
WG1859293-2	04-DEC-23 05:26	DEB WHELAN	EI	71156397	59.5212	50	59.5445	59.5442				460.00	2	
WG1859293-3	04-DEC-23 05:26	DEB WHELAN	F4	71156397	66.2965	80	66.312	66.3122				193.75	1.3	

Alpha Analytical

Wet Chemistry Gravimetric ELN

Printed: DEC-06-23 11:29:38

WorkGroup	WG1859293	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**	180	**Temp In (C)**					
Title	Solids, Total Dissolved	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**	180	**Temp Out (C)**					
Method	SM2540C	**Time In**	05-DEC-23 01:50	**Time In**	05-DEC-23 05:26	**Time In**	05-DEC-23 08:36	**Time In**	05-DEC-23 09:54	**Time In**					
Instrument	BALANCE#22	**Time Out**	05-DEC-23 04:16	**Time Out**	05-DEC-23 08:16	**Time Out**	05-DEC-23 09:52	**Time Out**	06-DEC-23 04:41	**Time Out**					

Temp In (C)	**Time In**	**LCS Lot #**	**TrueValue**	**Units**
90	04-DEC-23 10:58	110723D	500	mg/l

Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)					Result mg/L	Dil	Comment
WG1859293-4	04-DEC-23 05:26	DEB WHELAN	Q	71156397	61.3042	80	61.324	61.3244			247.50	1.3	

Quality Control

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/04/23 05:26
Dup Sample ID	: WG1859293-3	**DUP Analysis Date**	: 12/04/23 05:26

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	180	190	5	10

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/04/23 05:26
Dup Sample ID	: WG1859293-4	**DUP Analysis Date**	: 12/04/23 05:26

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	280	250	11 Q	10

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1859293-2	**LCS Analysis Date**	: 12/04/23 05:26
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Solids, Total Dissolved	**500.**	**460.**	**92.**					**80-120**	**10**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Solids, Total Dissolved	NONE	10	3.07	mg/l	80-120			10	10	2540C	7 days	1 - Plastic 500ml unpreserved

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

Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)
B = Initial weight (weight of clean dish, g)

Sulfide Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 06:33
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1859294.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/04/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 08:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1859294.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/04/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 08:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1859294.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/04/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 08:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1859294.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/04/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 08:23
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1859294.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/04/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 08:26
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1859294.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/04/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 08:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1859294.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/04/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 08:27
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1859294.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/04/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-10	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP2	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/04/23 08:28
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1859294.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/04/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859294-1	**Date Collected**	: NA
Client ID	: WG1859294-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/04/23 06:31
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1859294.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/04/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859294-3	**Date Collected**	: 11/30/23 12:49
Client ID	: WG1859294-3 DUP	**Date Received**	: 11/30/23
Sample Location	:	**Date Analyzed**	: 12/04/23 06:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500S2-D	**Analyst**	: DBN
Lab File ID	: WG1859294.csv	**Instrument ID**	: GENSYS10VI
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/04/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
18496-25-8	Sulfide	ND	0.10	0.10	U

Sample Raw Data

ALPHA ANALYTICAL

WET CHEMISTRY DEPARTMENT

Sulfide, Total

Last Change3/5/13
File Sulfide-Total-L.xlt

SOP No.: 07-30

Product: SULFIDE-4500
Curve Calibration Date : 5/22/2023
Curve Identifier: 052223
Analysis: Sulfide, Total
Analyte: Sulfide,
Method: SM 4500S2-AD
Prep Date/Time: 12/4/23 5:00
Instrument: GENSYS10vis
Technician: DBN
Wavelength: 664 nm
Work group: WG1859294
LCS Volume(ml): 1.0
RDL: 0.1 mg/L
LCS Concentration (mg/l): 65.820
Cell: 1 cm

Standard ID ug/100ml	Peak Area abs	Dilution
0	0.000	1.0
5.485	0.043	1.0
10.97	0.075	1.0
21.94	0.146	1.0
43.88	0.285	1.0
87.76	0.542	1.0
131.64	0.828	1.0
175.52	1.044	1.0

Calibration Curve
Volume: 50ml

Slope	y-intercept
0.006008	0.01198643

Correlation Coefficient: 0.999356

ICV/LCS Concentration (mg/l): 0.26

Reagents/Media Information

Material	Lot No.
ICV/LCS:	12/4/2023
CCV:	12/4/2023
MS:	12/4/2023
2N HCl:	2023081772
1N NaOH:	110923
Sulfide 1 Reagent:	R-4046
Sulfide 2 Reagent:	R-4047
0.2N NaOH:	110923

Get Samples
CHOOSE M
SM4500
SM4500 (PPB)

Time	Date	Sample number	Sample Volume (ml)		Absorbance	Conc. (ug S/100ml)	Coloring Dilution Factor		RDL Multiplier	FINAL RESULT (mg/l)	Recovery
6:30	12/4/2023	ICV	250		0.48	77.898	1		1.0	0.31	119%
6:31	12/4/2023	ICB	250		0	0.000	1		1.0	0.00	
6:31	12/4/2023	BLANK	250		0.007	0.000	1		1.0	0.00	Recovery
6:29	12/4/2023	LCS	250		0.391	63.085	1		1.0	0.25	96%
6:32	12/4/2023	L2370634-04	290		0.006	0.000	1		1.0	0.00	
6:33	12/4/2023	L2370634-05	290		0	0.000	1		1.0	0.00	
6:33	12/4/2023	L2370783-01	275		0	0.000	1		1.0	0.00	
8:22	12/4/2023	L2370783-02	270		0.008	0.000	1		1.0	0.00	
6:34	12/4/2023	CCV	250		0.39	62.918	1		1.0	0.25	96%
6:35	12/4/2023	CCB	250		0	0.000	1		1.0	0.00	
8:23	12/4/2023	L2370783-03	270		0.002	0.000	1		1.0	0.00	
8:23	12/4/2023	L2370783-04	270		0.004	0.000	1		1.0	0.00	
8:23	12/4/2023	L2370783-05	270		0.004	0.000	1		1.0	0.00	
8:26	12/4/2023	L2370783-06	270		0.001	0.000	1		1.0	0.00	
8:27	12/4/2023	L2370783-07	280		0.004	0.000	1		1.0	0.00	
8:27	12/4/2023	L2370783-08	275		0.004	0.000	1		1.0	0.00	
8:28	12/4/2023	L2370783-10	275		0.001	0.000	1		1.0	0.00	
8:28	12/4/2023	CCV	250		0.387	62.419	1		1.0	0.25	96%
8:20	12/4/2023	CCB	250		0	0.000	1		1.0	0.00	
6:31	12/4/2023	WG1859294-1	250		0.007	0.000	1		1.0	0.00	
6:34	12/4/2023	WG1859294-3	290		0	0.000	1		1.0	0.00	DUP

		Sample number	Sample volume		Absorbance	Sample Result mg/l	Dilution Factor	Spike conc. mg/l	RDL Multiplier	Spike Result mg/l	Recovery %
6:36	12/4/2023	WG1859294-4	290		0.407	0.00	1	0.45	1.0	0.23	51
							1	0.00			
6:31	12/4/2023	WG1859294-2	250		0.391		1	0.26	1.0	0.25	96%

COMMENTS & OBSERVATIONS	SAMPLE RESULT
	ICV
	ICB
	L2370634-04
	L2370634-05
	L2370783-01
	L2370783-02
	CCV
	CCB
	L2370783-07
	L2370783-08
	L2370783-10
	CCV
	CCB
	WG1859294-1
L2370634-04	WG1859294-3

L2370634-05	WG1859294-4
	0
LCS	WG1859294-2

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2370634-05		
Matrix Spike	: WG1859294-4	**MS Analysis Date**	: 12/04/23 06:36
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Sulfide	ND	0.45	0.23	51	Q					70-130	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/04/23 06:32
Dup Sample ID	: WG1859294-3	**DUP Analysis Date**	: 12/04/23 06:34

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfide	ND	ND	NC	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1859294-2	**LCS Analysis Date**	: 12/04/23 06:31
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Sulfide	0.260	0.250	96.					75-125	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfide	18496-25-8	0.1	0.1	mg/l	75-125		70-130	20	20	4500S2-D	7 days	2 - Plastic 250ml Zn Acetate/NaOH preserved
Sulfide	18496-25-8	0.1	0.1	mg/l	75-125		70-130	20	20	9030B	7 days	2 - Plastic 250ml Zn Acetate/NaOH preserved

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

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Sulfide	18496-25-8	0.5	0.156	mg/kg	75-125	25	70-130	25	25	9030B	7 days	1 - Glass 250ml/8oz unpreserved

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

Calculations of Total Sulfide

Aqueous samples:

Calculate the concentration value of the sample (in mgS/100ml) directly from the standard curve.

$$\text{mgS/100ml} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Calculate the final concentration value of Sulfide in the sample:

$$\text{mgS/L} = \frac{\text{mgS/100ml}}{\text{Sample volume (ml)}}$$

Alkalinity Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 13:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 231206_CSV.csv	**Instrument ID**	: METTLER
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	96.8	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 231206_CSV.csv	**Instrument ID**	: METTLER
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	130.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 231206_CSV.csv	**Instrument ID**	: METTLER
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	66.0	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:12
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 231206_CSV.csv	**Instrument ID**	: METTLER
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	42.0	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:15
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 231206_CSV.csv	**Instrument ID**	: METTLER
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	31.7	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:49
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 231206_CSV.csv	**Instrument ID**	: METTLER
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	258.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:56
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 231206_CSV.csv	**Instrument ID**	: METTLER
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	204.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 15:02
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 231206_CSV.csv	**Instrument ID**	: METTLER
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	65.5	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-10	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP2	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 15:05
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 231206_CSV.csv	**Instrument ID**	: METTLER
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	203.	2.00	NA	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1860484-1	**Date Collected**	: NA
Client ID	: WG1860484-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/06/23 13:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 231206_CSV.csv	**Instrument ID**	: METTLER
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1860484-2	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1SDUP	**Date Received**	: 11/30/23
Sample Location	:	**Date Analyzed**	: 12/06/23 14:01
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,2320B	**Analyst**	: MRW
Lab File ID	: 231206_CSV.csv	**Instrument ID**	: METTLER
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg CaCO3/L			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
71-52-3	Alkalinity, Bicarbonate	96.3	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U

Sample Raw Data

Results Editor

Results

Sample ID 1	otential (R	onsumption 8.3 (R	onsumption 4.5 (R	onsumption 4.2 (R	Content (R5	LK LOW (R(	Creation time	Comment	cyc	amp	lume [r	ensity [g/m	rrection fac	eratu	ple	ple	ple	ple	ple
Rinse,MRW	8.37 pH	NaN mL	4.041 mL	4.044 mL	80.820 m	80.760 mg	12/6/2023 8:44:2		S1	1	50 mL	1.0 g/mL	1.0	25.0					
Rinse,MRW	7.08 pH	NaN mL	0.412 mL	0.422 mL	8.240 mg/	8.040 mg/	12/6/2023 8:47:1		S1	2	50 mL	1.0 g/mL	1.0	25.0					
Rinse,MRW	5.55 pH	NaN mL	0.211 mL	0.230 mL	4.220 mg/	3.840 mg/	12/6/2023 8:48:4		S1	3	50 mL	1.0 g/mL	1.0	25.0					
WG1860374-1	5.58 pH	NaN mL	0.181 mL	0.209 mL	3.620 mg/	3.060 mg/	12/6/2023 8:50:1	WG18603	S1	4	50 mL	1.0 g/mL	1.0	25.0					
WG1860374-2	11.30 pH	8.895 mL	9.305 mL	9.309 mL	186.100	186.020 m	12/6/2023 8:51:4	WG18603	S1	5	50 mL	1.0 g/mL	1.0	25.0					
WG1860374-1	5.14 pH	NaN mL	0.241 mL	0.255 mL	4.820 mg/	4.540 mg/	12/6/2023 9:18:4	WG18603	S1	6	50 mL	1.0 g/mL	1.0	25.0					
WG1860374-2	11.30 pH	4.953 mL	5.343 mL	5.348 mL	106.860	106.760 m	12/6/2023 9:20:0	WG18503	S1	7	50 mL	1.0 g/mL	1.0	25.0					
--	6.00 pH	NaN mL	0.176 mL	0.228 mL	3.520 mg/	2.480 mg/	12/6/2023 9:26:0		S1	8	50 mL	1.0 g/mL	1.0	25.0					

Results Editor

LabX

Results

Sample ID 1	Potential (R4	onsumption 8.3 (R	onsumption 4.5 (R	onsumption 4.2 (R	Content (R5	LK LOW (R6	Creation time	Comment	cyc	amp	lume [r	ensity [g/m	rrection fac	eratu	ple	ple	ple	ple	ple
Rinse,MRW	7.82 pH	NaN mL	0.412 mL	0.412 mL	8.240 mg/	8.240 mg/	12/6/2023 9:31:4		S1	1	50 mL	1.0 g/mL	1.0	25.0					
Rinse,MRW	6.79 pH	NaN mL	0.239 mL	0.246 mL	4.780 mg/	4.640 mg/	12/6/2023 9:33:0		S1	2	50 mL	1.0 g/mL	1.0	25.0					
Rinse,MRW	5.61 pH	NaN mL	0.130 mL	0.180 mL	2.600 mg/	1.600 mg/	12/6/2023 9:34:2		S1	3	50 mL	1.0 g/mL	1.0	25.0					
WG1860374-1	5.58 pH	NaN mL	0.110 mL	0.175 mL	2.200 mg/	0.900 mg/	12/6/2023 9:36:1	WG18603	S1	4	50 mL	1.0 g/mL	1.0	25.0					
WG1860374-2	11.30 pH	4.947 mL	5.349 mL	5.353 mL	106.980	106.900 m	12/6/2023 9:37:5	WG18603	S1	5	50 mL	1.0 g/mL	1.0	25.0					
L2371377-01	2.61 pH	NaN mL	NaN mL	NaN mL	NaN mg/	NaN mg/L	12/6/2023 9:51:3		S1	6	50 mL	1.0 g/mL	1.0	25.0					
WG1860374-3	4.68 pH	NaN mL	2.028 mL	3.234 mL	40.560 m	16.440 mg	12/6/2023 9:52:4	WG18603	S1	7	50 mL	1.0 g/mL	1.0	25.0					
WG1860374-4	8.98 pH	3.060 mL	8.963 mL	9.062 mL	179.260	177.280 m	12/6/2023 9:58:1	WG18603	S1	8	50 mL	1.0 g/mL	1.0	25.0					
L2371377-01	5.83 pH	NaN mL	3.448 mL	3.562 mL	68.960 m	66.680 mg	12/6/2023 10:03:	WG18603	S1	9	50 mL	1.0 g/mL	1.0	25.0					
L2370027-01	6.39 pH	NaN mL	4.276 mL	4.324 mL	85.520 m	84.560 mg	12/6/2023 10:59:	WG18603	S1	10	50 mL	1.0 g/mL	1.0	25.0					
L2370027-02	5.72 pH	NaN mL	5.002 mL	5.113 mL	100.040	97.820 mg	12/6/2023 11:02:	WG18603	S1	11	50 mL	1.0 g/mL	1.0	25.0					
L2370027-03	5.54 pH	NaN mL	3.152 mL	3.284 mL	63.040 m	60.400 mg	12/6/2023 11:05:	WG18603	S1	12	50 mL	1.0 g/mL	1.0	25.0					
L2370027-04	5.70 pH	NaN mL	5.149 mL	5.278 mL	102.980	100.400 m	12/6/2023 11:08:	WG18603	S1	13	50 mL	1.0 g/mL	1.0	25.0					
l2370027-05	5.55 pH	NaN mL	1.334 mL	1.375 mL	26.680 m	25.860 mg	12/6/2023 11:12:	WG18603	S1	14	50 mL	1.0 g/mL	1.0	25.0					
l2370027-06	5.99 pH	NaN mL	5.188 mL	5.262 mL	103.760	102.280 m	12/6/2023 11:14:	WG18603	S1	15	50 mL	1.0 g/mL	1.0	25.0					
l2370027-08	5.79 pH	NaN mL	2.931 mL	2.988 mL	58.620 m	57.480 mg	12/6/2023 11:17:	WG18603	S1	16	50 mL	1.0 g/mL	1.0	25.0					
l2371712-03	6.28 pH	NaN mL	29.021 mL	29.474 mL	580.420	571.360 m	12/6/2023 11:23:		S1	17	50 mL	1.0 g/mL	1.0	25.0					
l2371712-04	6.24 pH	NaN mL	27.542 mL	27.920 mL	550.840	543.280 m	12/6/2023 11:43:		S1	18	50 mL	1.0 g/mL	1.0	25.0					
l2371712-05	6.43 pH	NaN mL	NaN mL	NaN mL	NaN mg/	NaN mg/L	12/6/2023 12:00:		S1	19	50 mL	1.0 g/mL	1.0	25.0					
l2371712-05	6.50 pH (1	NaN mL (12)	NaN mL (12)				12/6/2023 12:17:		S1	20	50 mL	1.0 g/mL	1.0	25.0					

Results Editor

LabX

Results

Sample ID 1	otential (R	onsumption 8.3 (R	onsumption 4.5 (R	onsumption 4.2 (R	Content (R5	LK LOW (R(	Creation time	Comment	cyc	amp	lume [r	ensity [g/m	rrection fac	eratu	nple	nple	nple	nple	nple
Rinse,MRW	8.12 pH	NaN mL	0.426 mL	0.430 mL	8.520 mg/	8.440 mg/	12/6/2023 12:45:		S1	1	50 mL	1.0 g/mL	1.0	25.0					
L2371712-04	6.30 pH	NaN mL	27.912 mL	28.330 mL	558.240	549.880 m	12/6/2023 12:47:		S1	2	50 mL	1.0 g/mL	1.0	25.0					
L2371712-05 2.5x	6.49 pH	NaN mL	15.093 mL	15.344 mL	301.860	296.840 m	12/6/2023 1:07:1		S1	3	50 mL	1.0 g/mL	1.0	25.0					
CCV	11.25 pH	4.650 mL	5.293 mL	5.297 mL	105.860	105.780 m	12/6/2023 1:18:5		S1	4	50 mL	1.0 g/mL	1.0	25.0					
WG1860484-1	5.92 pH	NaN mL	0.146 mL	0.185 mL	2.920 mg/	2.140 mg/	12/6/2023 1:22:2	WG18604	S1	5	50 mL	1.0 g/mL	1.0	25.0					
WG1860484-1	5.86 pH	NaN mL	0.197 mL	0.255 mL	3.940 mg/	2.780 mg/	12/6/2023 1:26:1	WG18604	S1	6	50 mL	1.0 g/mL	1.0	25.0					

Results Editor

LabX

Results

Sample ID 1	Potential (R	onsumption 8.3 (R	onsumption 4.5 (R	onsumption 4.2 (R	Content (R5	LK LOW (R(	Creation time	Comment	cyc	amp	lume [r	ensity [g/m	rrection fac	eratu	nple	nple	nple	nple	nple
Rinse,MRW	7.96 pH	NaN mL	0.495 mL	0.495 mL	9.900 mg/	9.900 mg/	12/6/2023 1:48:3		S1	1	50 mL	1.0 g/mL	1.0	25.0					
Rinse,MRW	6.37 pH	NaN mL	0.213 mL	0.222 mL	4.260 mg/	4.080 mg/	12/6/2023 1:49:5		S1	2	50 mL	1.0 g/mL	1.0	25.0					
Rinse,MRW	5.82 pH	NaN mL	0.170 mL	0.187 mL	3.400 mg/	3.060 mg/	12/6/2023 1:51:1		S1	3	50 mL	1.0 g/mL	1.0	25.0					
WG1860484-1	5.71 pH	NaN mL	0.139 mL	0.192 mL	2.780 mg/	1.720 mg/	12/6/2023 1:52:3	WG18604	S1	4	50 mL	1.0 g/mL	1.0	25.0					
LCS	11.31 pH	4.967 mL	5.344 mL	5.348 mL	106.880	106.800 m	12/6/2023 1:54:0		S1	5	50 mL	1.0 g/mL	1.0	25.0					
I2370783-01	6.53 pH	NaN mL	4.839 mL	4.916 mL	96.780 m	95.240 mg	12/6/2023 1:58:0	WG18604	S1	6	50 mL	1.0 g/mL	1.0	25.0					
WG1860484-2	6.61 pH	NaN mL	4.814 mL	4.894 mL	96.280 m	94.680 mg	12/6/2023 2:01:5	WG18604	S1	7	50 mL	1.0 g/mL	1.0	25.0					
I2370783-02	6.00 pH	NaN mL	6.501 mL	6.580 mL	130.020	128.440 m	12/6/2023 2:05:5	WG18604	S1	8	50 mL	1.0 g/mL	1.0	25.0					
I2370783-03	5.74 pH	NaN mL	3.299 mL	3.351 mL	65.980 m	64.940 mg	12/6/2023 2:10:0	WG18604	S1	9	50 mL	1.0 g/mL	1.0	25.0					
I2370783-04	5.72 pH	NaN mL	2.098 mL	2.136 mL	41.960 m	41.200 mg	12/6/2023 2:12:5	WG18604	S1	10	50 mL	1.0 g/mL	1.0	25.0					
I2370783-05	5.54 pH	NaN mL	1.584 mL	1.616 mL	31.680 m	31.040 mg	12/6/2023 2:15:0	WG18604	S1	11	50 mL	1.0 g/mL	1.0	25.0					
I2370783-06	6.10 pH	NaN mL	12.452 mL	12.648 mL	249.040	245.120 m	12/6/2023 2:17:0	WG18604	S1	12	50 mL	1.0 g/mL	1.0	25.0					

[Read-Only] - Results Editor

LabX

Results

Sample ID 1	Potential (R4	onsumption 8.3 (R	onsumption 4.5 (R	onsumption 4.2 (R	Content (R5	LK LOW (R6	Creation time	Comment	cyc	amp	lume [r	ensity [g/m	rrection fac	eratu	nple	nple	nple	nple	nple
Rinse,MRW	8.10 pH	NaN mL	0.469 mL	0.476 mL	9.380 mg/	9.240 mg/	12/6/2023 2:36:0		S1	1	50 mL	1.0 g/mL	1.0	25.0					
BLANK	6.30 pH	NaN mL	0.212 mL	0.221 mL	4.240 mg/	4.060 mg/	12/6/2023 2:37:3		S1	2	50 mL	1.0 g/mL	1.0	25.0					
L2370783-06	6.01 pH	NaN mL	12.928 mL	13.051 mL	258.560	256.100 m	12/6/2023 2:49:1	WG18604	S1	3	50 mL	1.0 g/mL	1.0	25.0					
L2370783-07	6.17 pH	NaN mL	10.188 mL	10.318 mL	203.760	201.160 m	12/6/2023 2:56:2	WG18604	S1	4	50 mL	1.0 g/mL	1.0	25.0					
L2370783-08	5.91 pH	NaN mL	3.275 mL	3.291 mL	65.500 m	65.180 mg	12/6/2023 3:02:1	WG18604	S1	5	50 mL	1.0 g/mL	1.0	25.0					
L2370783-10	6.29 pH	NaN mL	10.168 mL	10.304 mL	203.360	200.640 m	12/6/2023 3:05:0	WG18604	S1	6	50 mL	1.0 g/mL	1.0	25.0					
CCV	11.46 pH	5.034 mL	5.375 mL	5.375 mL	107.500	107.500 m	12/6/2023 3:42:5		S1	7	50 mL	1.0 g/mL	1.0	25.0					
CCB	5.86 pH	NaN mL	0.104 mL	0.187 mL	2.080 mg/	0.420 mg/	12/6/2023 3:46:2		S1	8	50 mL	1.0 g/mL	1.0	25.0					

Results Editor

Results

Sample ID 1	Sample ID 2	Sample ID 3	Sample ID 4	Sample ID 5	Sample ID 6	Creation tim	mple cycle na	Sample	Sensor type	st of standar	Standard	Comment	mperature [	point 1 (Cal	lope 1 (Cal1.S1
						12/6/2023								6.841 pH	-58.33 mV/p

Results Editor

Results

Sample ID 1	Sample ID 2	Sample ID 3	Sample ID 4	Sample ID 5	Sample ID 6	Creation time	mple cycle na	Sample	Volume [mL]	Density [g/mL	orrection fact	mperature [°	Comment	Potential (R1)
--						12/6/2023 8	S1	1	0 mL	1.0 g/mL	1.0	25.0 °C		7.02 pH

Quality Control

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-1S	**Matrix**	: WATER
Lab Sample ID	: L2370783-01	**Analysis Date**	: 12/06/23 13:58
Dup Sample ID	: WG1860484-2	**DUP Analysis Date**	: 12/06/23 14:01

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	96.8	96.3	1	9

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Alkalinity, Total	471-34-1	2		mg CaCO3/L	90-110	10	86-116	10	10	2320B	14 days	1 - Plastic 250ml unpreserved/No Headspace

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

Calculations of Alkalinity

$$\text{Alkalinity, mg } CaCO_3/L = \frac{A \times N \times 50{,}000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	231206	LCS 7.02	7.02	INT:	MRW
pH 4	3296	Titrant:	3372		
pH 7	3149	LCS:	3257		
pH 10	3299	MS:	3255		
LCS	3382				

1	RINSE	6	BLANK
2	RINSE		
3	RINSE	1	RINSE
4	BLANK	2	RINSE
5	LCS	3	RINSE
6	BLANK	4	BLANK
7	LCS	5	LCS
		6	l2370783-01
1	RINSE	7	DUP
2	RINSE	8	l2370783-02
3	RINSE	9	l2370783-03
4	BLANK	10	l2370783-04
5	LCS	11	l2370783-05
6	L2371377-01	12	l2370783-06
7	DUP		
8	MS	1	RINSE
9	L2371377-01	2	BLANK
10	L2370027-01	3	L2370783-06
11	L2370027-02	4	L2370783-07
12	L2370027-03	5	L2370783-08
13	L2370027-04	6	L2370783-10
14	l2370027-05	7	CCV
15	l2370027-06	8	CCB
16	l2370027-08		
17	l2371712-03		
18	l2371712-04		
19	l2371712-05		
20	l2371712-05		

1	RINSE	
2	L2371712-04	
3	L2371712-05	2.5x
4	CCV	
5	BLANK	

Phosphates Analysis

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 14:42
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS120523-WG1859849.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.083	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 14:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS120523-WG1859849.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 14:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS120523-WG1859849.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 14:50
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS120523-WG1859849.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.046	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 14:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS120523-WG1859849.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 14:51
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS120523-WG1859849.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.089	0.031	0.012	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 14:52
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS120523-WG1859849.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 14:53
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS120523-WG1859849.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-10	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP2	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/05/23 14:54
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS120523-WG1859849.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859849-1	**Date Collected**	: NA
Client ID	: WG1859849-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/05/23 14:40
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS120523-WG1859849.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1859849-3	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2SDUP	**Date Received**	: 11/30/23
Sample Location	:	**Date Analyzed**	: 12/05/23 14:44
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 121,4500P-E(M)	**Analyst**	: EYA
Lab File ID	: PHOS120523-WG1859849.csv	**Instrument ID**	: SEAL
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	: 12/05/23

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7723-14-0	Phosphate, Total	ND	0.031	0.012	U

Sample Raw Data

Logo

AQ-2 Tray Report

Serial Number:	090856
Report Requested By:	EASAMOAH
Date & Time:	05-Dec-2023 15:00:27
Tray Number:	1
Tray Name:	WG1859849

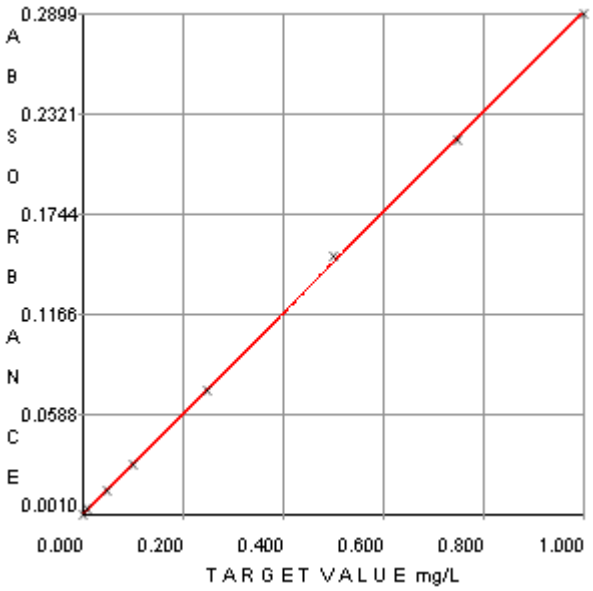
T-Phos 1

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0010	0.001	0.000	
S90	0.0036	0.010	0.010	-4.38
S91	0.0146	0.047	0.050	-5.11
S92	0.0291	0.098	0.100	-2.20
S93	0.0727	0.248	0.250	-0.79
S94	0.1497	0.514	0.500	2.85
S95	0.2163	0.744	0.750	-0.80
S96	0.2899	0.998	1.000	-0.18
S0	0.0014	0.002	0.000	

Polynomial Order:	1
Correlation Coefficient:	0.9999
Carryover(%):	0.1
Calibration Equation:	y = bx + a
y =:	Concentration mg/L
x =:	Measured Absorbance
a =:	-2.856152E-003
b =:	3.453254E+000
Date & Time:	05-Dec-2023 14:36:52

Calibration Graph



Reagents

Name	Batch	Prepared By	Expiry Date
TP color	120323-tp color	Maeve Flaherty	24-Dec-2023 21:00:00
TP ascorbic	1201233-aa	Maeve Flaherty	08-Dec-2023 21:00:00

curve/spike: WC3263 111023 LCS: WC3262 110123
11N H2SO4: tp-101923-11h2so4 Persulfate: R-4059

Test Results

Cup	Type	ID	Result	Units	Raw Data	Test Dil.	Cup Dil.	User	Time/Date
	S1	STANDARD 1	0.001		0.001031			EYA	05-Dec-2023 14:27:50
	S90	STANDARD 90	0.004		0.003596			EYA	05-Dec-2023 14:28:57
	S91	STANDARD 91	0.015		0.014566			EYA	05-Dec-2023 14:30:04
	S92	STANDARD 92	0.029		0.029149			EYA	05-Dec-2023 14:31:11
	S93	STANDARD 93	0.073		0.072652			EYA	05-Dec-2023 14:32:18
	S94	STANDARD 94	0.150		0.149739			EYA	05-Dec-2023 14:33:25
	S95	STANDARD 95	0.216		0.216276			EYA	05-Dec-2023 14:34:33
	S96	STANDARD 96	0.290		0.289896			EYA	05-Dec-2023 14:35:42
	S0	STANDARD 0	0.001		0.001413			EYA	05-Dec-2023 14:36:52
2	ICV	ICV	0.508	mg/L	0.147885			EYA	05-Dec-2023 14:37:59
3	ICB	ICB	-0.001	mg/L	0.000508			EYA	05-Dec-2023 14:39:07
4	U1	WG1859849-1O	-0.001ELL	mg/L	0.000550			EYA	05-Dec-2023 14:40:15
5	U2	WG1859849-2O	0.523	mg/L	0.152275			EYA	05-Dec-2023 14:41:23

6	U3	L2370783-01O	0.027	mg/L	0.008514		EYA	05-Dec-2023 14:42:31
7	U4	L2370783-02O	0.000ELL	mg/L	0.000903		EYA	05-Dec-2023 14:43:38
8	U5	WG1859849-3O	-0.001ELL	mg/L	0.000593		EYA	05-Dec-2023 14:44:46
9	U6	WG1859849-4O	0.536	mg/L	0.155943		EYA	05-Dec-2023 14:45:54
10	U7	L2370783-03O	0.002	mg/L	0.001354		EYA	05-Dec-2023 14:47:03
	CCV	C C V	0.520	mg/L	0.151376		EYA	05-Dec-2023 14:48:12
	CCB	C C B	-0.001	mg/L	0.000494		EYA	05-Dec-2023 14:49:07
11	U8	L2370783-04O	0.015	mg/L	0.005141		EYA	05-Dec-2023 14:50:10
12	U9	L2370783-05O	-0.000ELL	mg/L	0.000803		EYA	05-Dec-2023 14:51:04
13	U10	L2370783-06O	0.029	mg/L	0.009201		EYA	05-Dec-2023 14:51:57
14	U11	L2370783-07O	0.002	mg/L	0.001311		EYA	05-Dec-2023 14:52:51
15	U12	L2370783-08O	0.005	mg/L	0.002215		EYA	05-Dec-2023 14:53:44
16	U13	L2370783-10O	0.001	mg/L	0.001240		EYA	05-Dec-2023 14:54:38
17	U14	L2371165-01O	0.160	mg/L	0.047104		EYA	05-Dec-2023 14:55:31
18	U15	L2371165-02O	0.071	mg/L	0.021418		EYA	05-Dec-2023 14:56:25
	CCV	C C V	0.522	mg/L	0.151883		EYA	05-Dec-2023 14:57:18
	CCB	C C B	0.001	mg/L	0.001043		EYA	05-Dec-2023 14:58:13

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-2S	**Matrix**	: WATER
Lab Sample ID	: L2370783-02		
Matrix Spike	: WG1859849-4	**MS Analysis Date**	: 12/05/23 14:45
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	**Sample Conc. (mg/l)**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**Spike Added (mg/l)**	**Spike Conc. (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**ND**	**1.53**	**1.64**	**107**					**80-120**	**15**

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-2S	**Matrix**	: WATER
Lab Sample ID	: L2370783-02	**Analysis Date**	: 12/05/23 14:43
Dup Sample ID	: WG1859849-3	**DUP Analysis Date**	: 12/05/23 14:44

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	ND	ND	NC	15

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1859849-2	**LCS Analysis Date**	: 12/05/23 14:41
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Phosphate, Total	**1.53**	**1.60**	**104.**					**84-118**	**15**

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	0.01	0.004	mg/l	80-120		75-125	20	20	4500P-E	28 days	1 - Plastic 500ml H2SO4 preserved

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

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Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Total	7723-14-0	5	1.67	mg/kg	52-148	20	75-125	20	20	4500P-E	28 days	1 - Glass 250ml/8oz unpreserved

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

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File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.005	0.001	mg/l	90-110		80-120	20	20	4500P-E	48 hours	1 - Plastic 500ml unpreserved

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

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Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Phosphorus, Orthophosphate	7723-14-0	0.05	0.05	mg/kg						4500P-E	48 hours	1 - Glass 250ml/8oz unpreserved

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

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Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segmant flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 03:57
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	42.3	0.500	0.083	
16984-48-8	Fluoride	0.132	0.050	0.037	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-01	**Date Collected**	: 11/29/23 12:40
Client ID	: MW-1S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 09:48
Sample Matrix	: WATER	**Dilution Factor**	: 250
Analytical Method	: 44,300.0	**Analyst**	: CVN
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	250.	250	114.	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 04:46
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	6.17	0.500	0.083	
16984-48-8	Fluoride	0.103	0.050	0.037	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-02	**Date Collected**	: 11/29/23 11:10
Client ID	: MW-2S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:38
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860402-536	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	195.	10.0	4.54	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 04:58
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.064	0.050	0.013	
16887-00-6	Chloride	22.4	0.500	0.083	
16984-48-8	Fluoride	0.094	0.050	0.037	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-03	**Date Collected**	: 11/29/23 09:30
Client ID	: MW-3S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 14:49
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860402-536	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	102.	10.0	4.54	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 15:00
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860402-536	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	117.	5.00	0.839	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-04	**Date Collected**	: 11/29/23 14:00
Client ID	: MW-4D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 05:10
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.061	0.050	0.013	
16984-48-8	Fluoride	0.062	0.050	0.037	
14808-79-8	Sulfate	6.40	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/06/23 15:10
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860402-536	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	75.7	10.0	4.54	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-05	**Date Collected**	: 11/29/23 15:30
Client ID	: MW-5S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 05:22
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.066	0.050	0.013	
16887-00-6	Chloride	17.0	0.500	0.083	
16984-48-8	Fluoride	0.053	0.050	0.037	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 05:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.070	0.050	0.013	
16984-48-8	Fluoride	0.062	0.050	0.037	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-06	**Date Collected**	: 11/29/23 10:08
Client ID	: MW-6D	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 05:46
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	52.3	5.00	0.839	
14808-79-8	Sulfate	102.	10.0	4.54	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 11:12
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	140.	10.0	4.54	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-07	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 06:47
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	24.7	0.500	0.083	
16984-48-8	Fluoride	0.058	0.050	0.037	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-08	**Date Collected**	: 11/29/23 16:40
Client ID	: MW-8S	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 06:59
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.059	0.050	0.013	
16887-00-6	Chloride	10.9	0.500	0.083	
16984-48-8	Fluoride	0.061	0.050	0.037	
14808-79-8	Sulfate	40.1	1.00	0.454	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-10	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP2	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 07:23
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	130.	10.0	4.54	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: L2370783-10	**Date Collected**	: 11/29/23 00:00
Client ID	: DUP2	**Date Received**	: 11/30/23
Sample Location	: SOUTHAMTON, NY	**Date Analyzed**	: 12/07/23 07:11
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	24.1	0.500	0.083	
16984-48-8	Fluoride	0.058	0.050	0.037	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1860536-1	**Date Collected**	: NA
Client ID	: WG1860536-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/06/23 09:43
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860536	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	0.026	0.050	0.013	J
16887-00-6	Chloride	0.196	0.500	0.083	J
16984-48-8	Fluoride	ND	0.050	0.037	U
14808-79-8	Sulfate	ND	1.00	0.454	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1860536-4	**Date Collected**	: 12/02/23 11:00
Client ID	: WG1860536-4 DUP	**Date Received**	: 12/05/23
Sample Location	:	**Date Analyzed**	: 12/06/23 10:48
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860402-536	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	ND	1.00	0.454	U
16887-00-6	Chloride	0.364	0.500	0.084	J
24959-67-9	Bromide	ND	0.050	0.013	U
16984-48-8	Fluoride	ND	0.050	0.037	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1860728-1	**Date Collected**	: NA
Client ID	: WG1860728-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/06/23 17:17
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
24959-67-9	Bromide	ND	0.050	0.013	U
16887-00-6	Chloride	0.190	0.500	0.083	J
16984-48-8	Fluoride	0.048	0.050	0.037	J
14808-79-8	Sulfate	ND	1.00	0.454	U

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1860728-4	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7SDUP	**Date Received**	: 11/30/23
Sample Location	:	**Date Analyzed**	: 12/07/23 11:00
Sample Matrix	: WATER	**Dilution Factor**	: 10
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
14808-79-8	Sulfate	138.	10.0	4.54	

Form 1
WETCHEM

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Lab ID	: WG1860728-4	**Date Collected**	: 11/29/23 11:38
Client ID	: MW-7SDUP	**Date Received**	: 11/30/23
Sample Location	:	**Date Analyzed**	: 12/07/23 06:34
Sample Matrix	: WATER	**Dilution Factor**	: 1
Analytical Method	: 44,300.0	**Analyst**	: CVN,
Lab File ID	: WG1860728	**Instrument ID**	: IC3
Sample Amount	:	**%Solids**	: N/A
Digestion Method	:	**Date Digested**	:

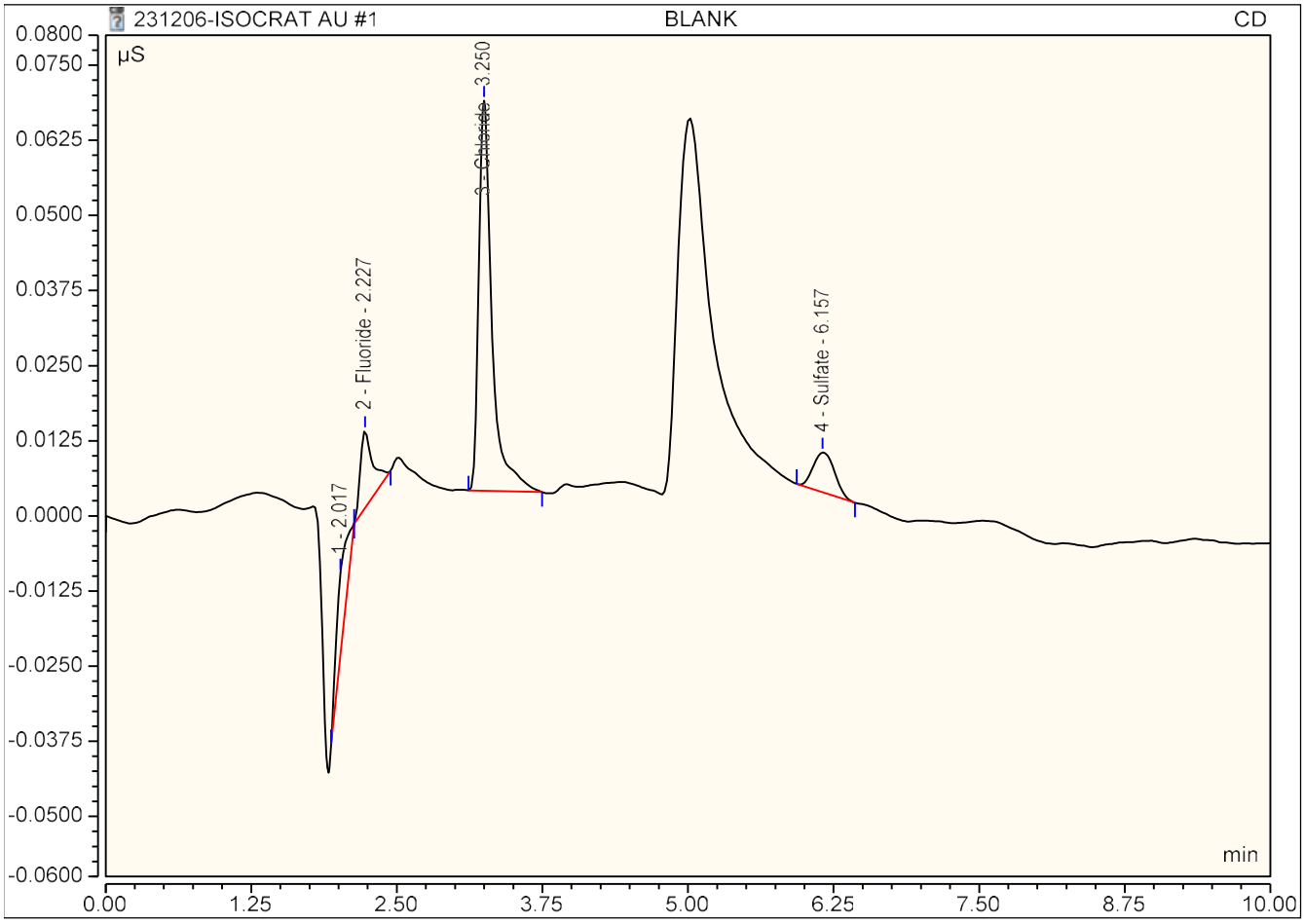
		mg/l			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
16887-00-6	Chloride	24.6	0.500	0.084	
24959-67-9	Bromide	0.057	0.050	0.013	
16984-48-8	Fluoride	0.058	0.050	0.037	

Sample Raw Data

Peak Integration Report

Sample Name:	**BLANK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**28-Nov-2023 / 17:33**	*Run Time:*	**10.00**

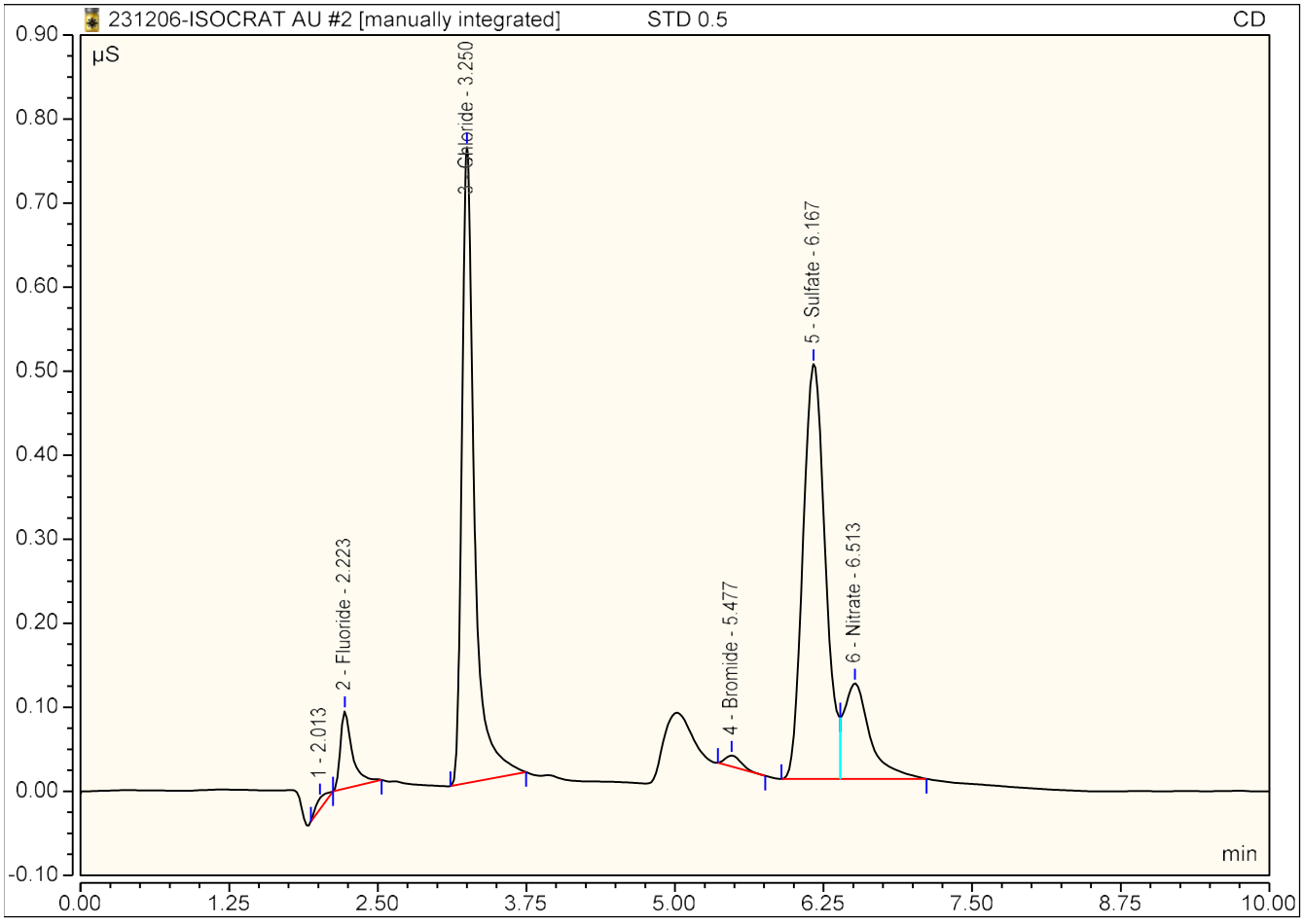
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.002	0.013	0.0499
3	3.25	**Chloride**	BMB	0.008	0.065	0.1978
4	6.16	**Sulfate**	BMB	0.001	0.007	0.2930
TOTAL:				0.01	0.08	0.54



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**28-Nov-2023 / 17:45**	*Run Time:*	**10.00**

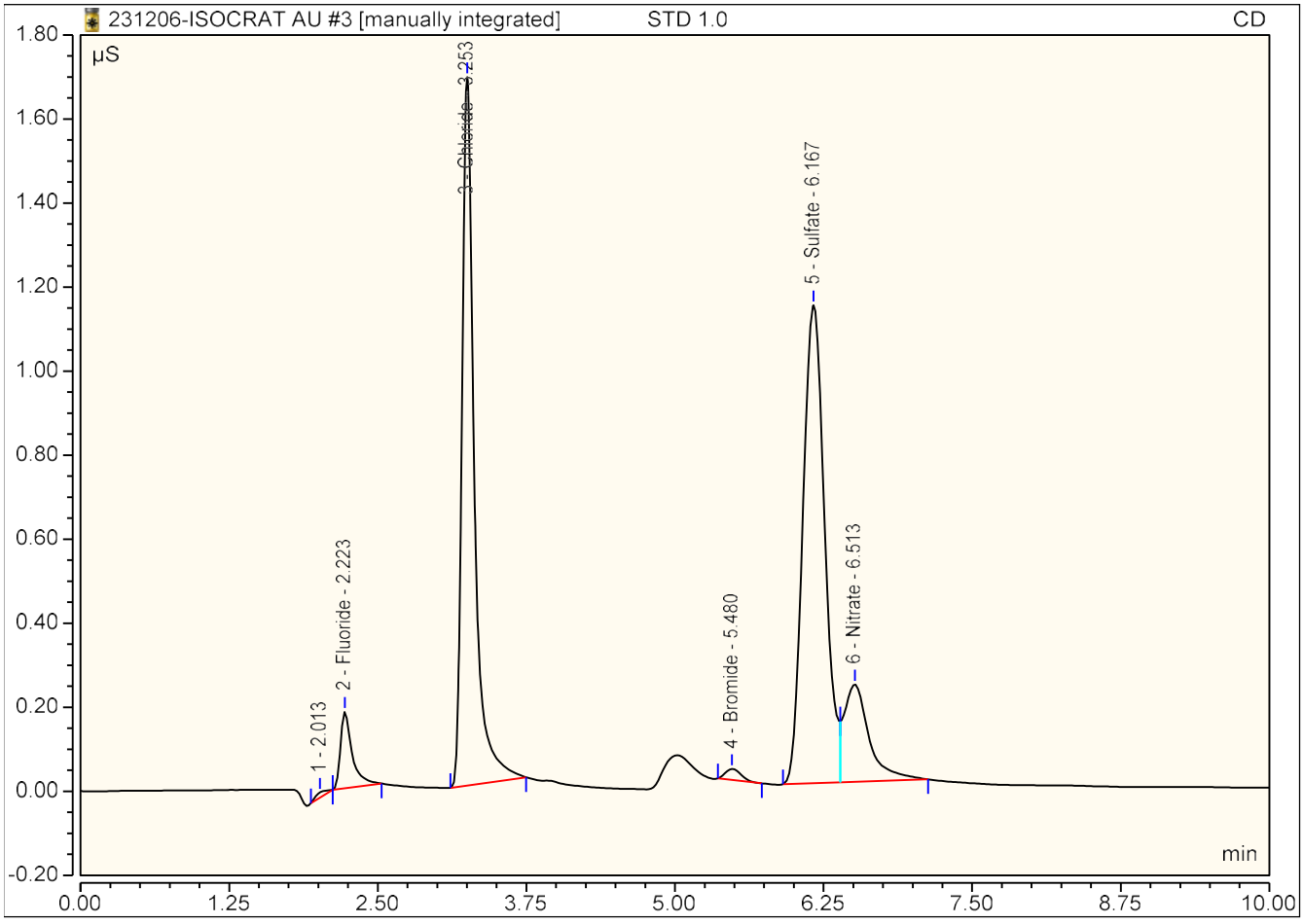
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.011	0.092	0.0646
3	3.25	**Chloride**	BMB	0.094	0.757	0.3853
4	5.48	**Bromide**	BMB	0.002	0.013	0.0697
5	6.17	**Sulfate**	BM *	0.107	0.494	0.6290
6	6.51	**Nitrate**	MB*	0.029	0.114	0.1062
TOTAL:				0.24	1.47	1.25



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**28-Nov-2023 / 17:57**	*Run Time:*	**10.00**

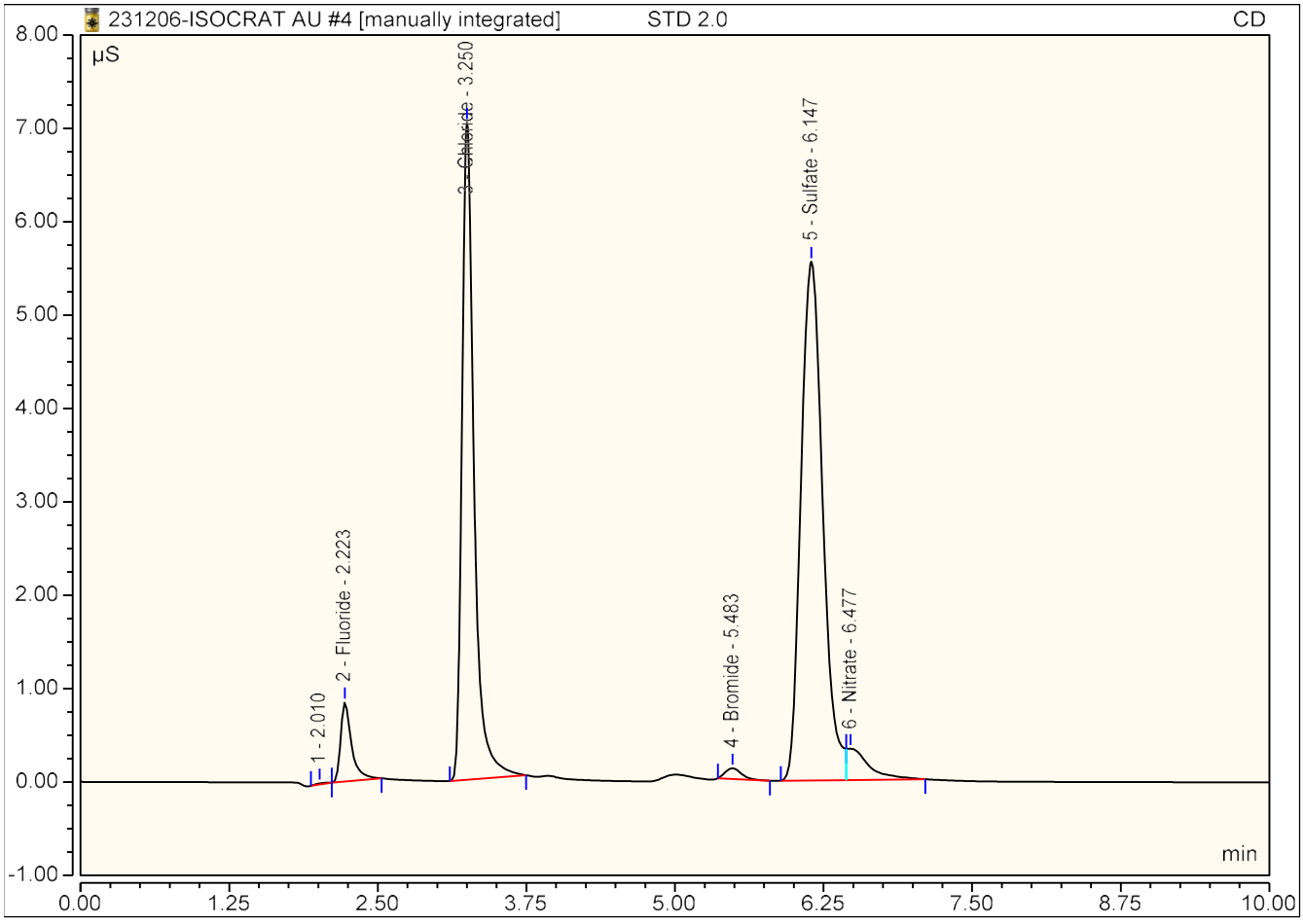
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.021	0.183	0.0808
3	3.25	**Chloride**	BMB	0.203	1.686	0.6248
4	5.48	**Bromide**	BMB	0.004	0.027	0.0849
5	6.17	**Sulfate**	BM *	0.240	1.137	1.0529
6	6.51	**Nitrate**	MB*	0.057	0.232	0.1253
TOTAL:				0.53	3.26	1.97



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**28-Nov-2023 / 18:09**	*Run Time:*	**10.00**

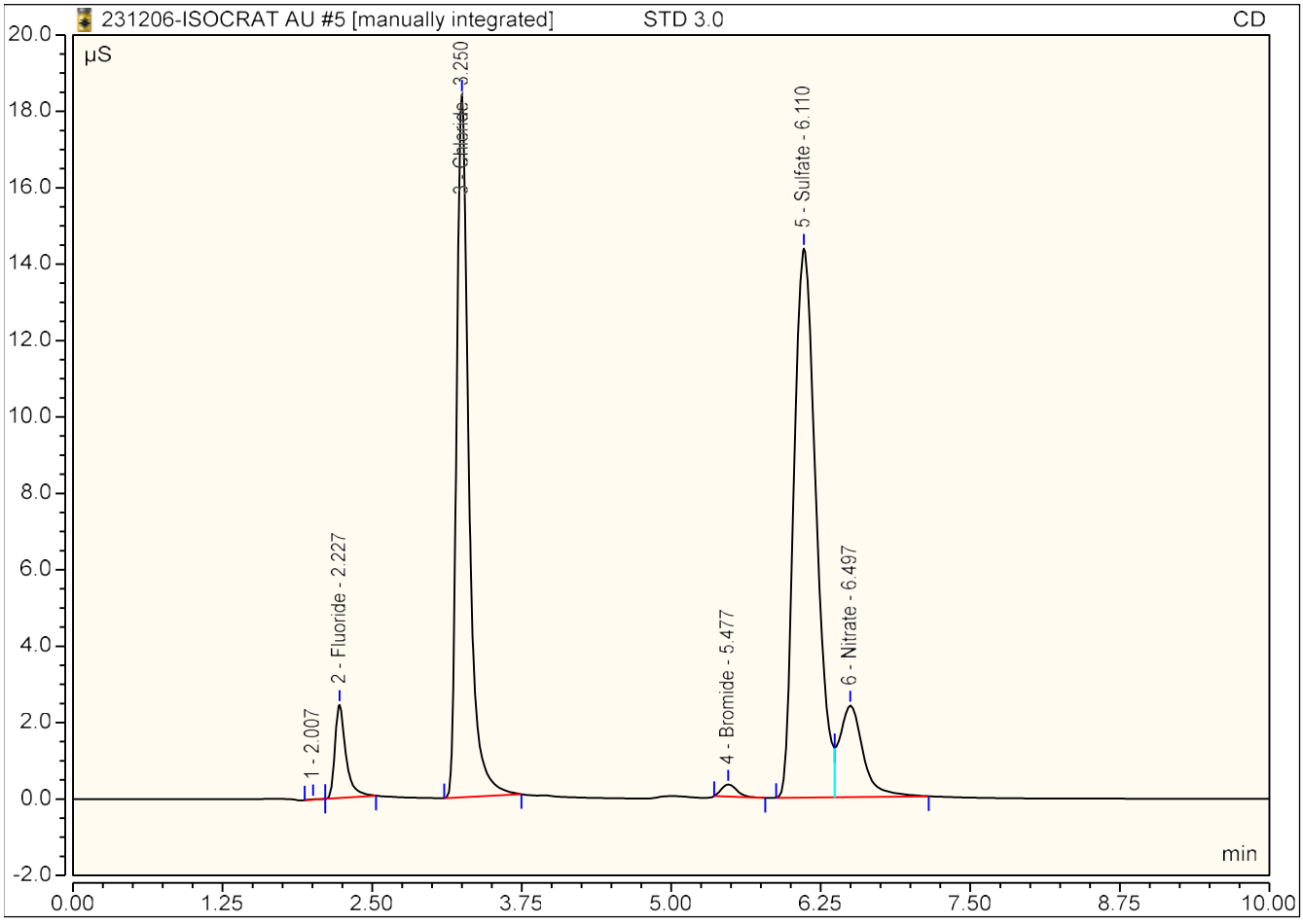
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.091	0.848	0.1920
3	3.25	**Chloride**	BMB	0.832	7.038	2.0081
4	5.48	**Bromide**	BMB	0.018	0.115	0.1886
5	6.15	**Sulfate**	BM *	1.180	5.554	4.0400
6	6.48	**Nitrate**	MB*	0.073	0.334	0.1368
TOTAL:				2.19	13.89	6.57



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**28-Nov-2023 / 18:21**	*Run Time:*	**10.00**

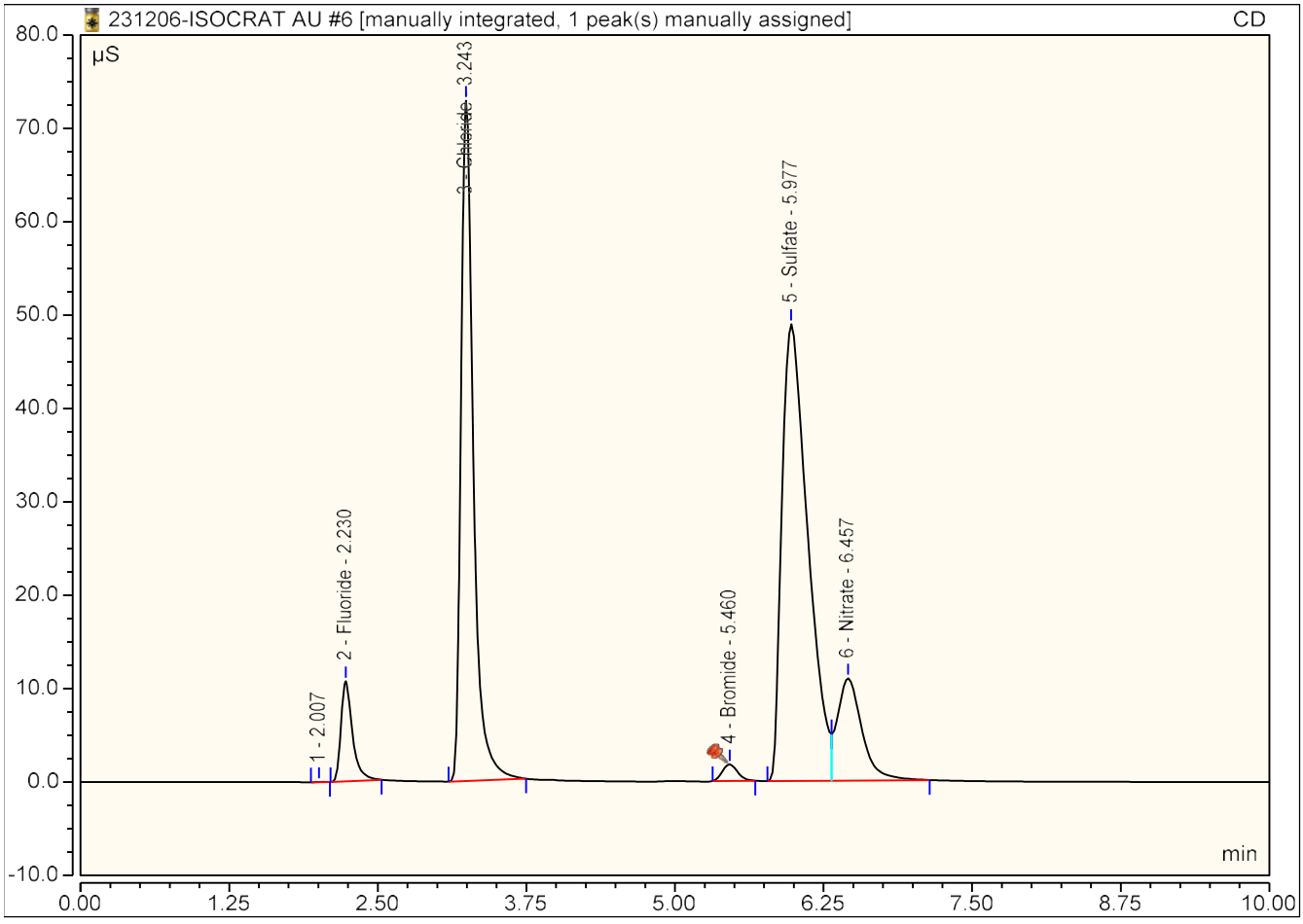
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.260	2.441	0.4601
3	3.25	**Chloride**	BMB	2.189	18.392	4.9912
4	5.48	**Bromide**	BMB	0.047	0.318	0.4094
5	6.11	**Sulfate**	BM *	3.071	14.370	10.0526
6	6.50	**Nitrate**	MB*	0.549	2.395	0.4633
TOTAL:				6.12	37.92	16.38



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**28-Nov-2023 / 18:33**	*Run Time:*	**10.00**

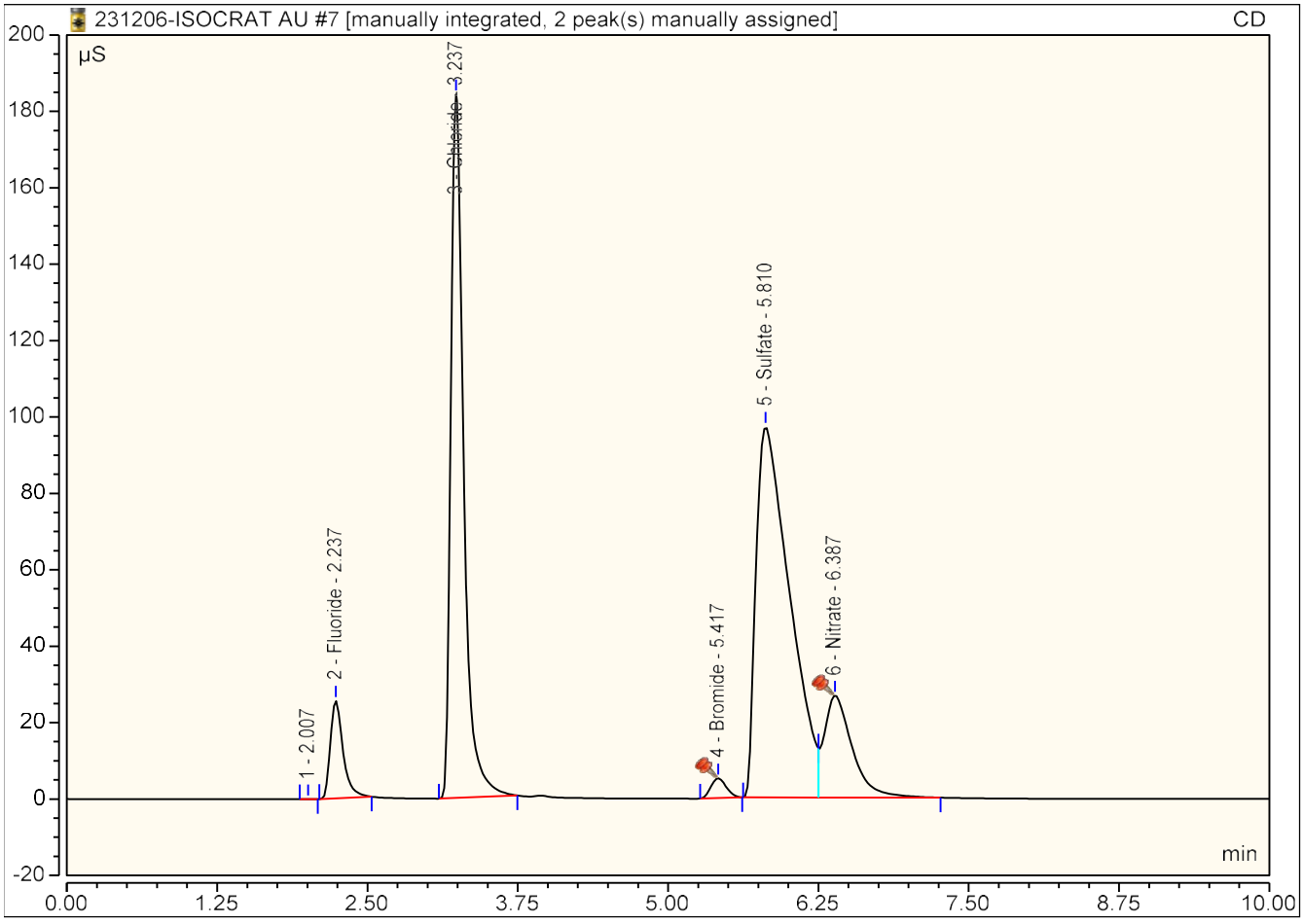
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	1.204	10.710	1.9562
3	3.24	**Chloride**	BMB	8.822	72.839	19.5699
4	5.46	**Bromide**	BMB*^	0.260	1.768	2.0224
5	5.98	**Sulfate**	BM *	12.350	48.930	39.5560
6	6.46	**Nitrate**	MB*	2.635	10.945	1.8972
TOTAL:				25.27	145.19	65.00



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**25.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**28-Nov-2023 / 18:45**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.24	**Fluoride**	BMB	3.137	25.571	5.0213
3	3.24	**Chloride**	BMB	22.744	184.215	50.1707
4	5.42	**Bromide**	BMB*^	0.764	5.189	5.8291
5	5.81	**Sulfate**	BM *	31.413	97.052	100.1696
6	6.39	**Nitrate**	MB*^	7.218	26.701	5.0462
TOTAL:				65.28	338.73	166.24



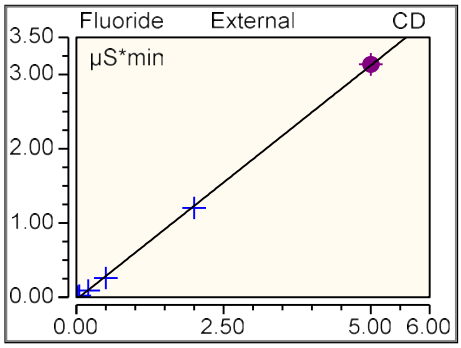
Calibration Batch Report

Sequence:	**231206-ISOCRAT AU**	*Injection Volume:*	**25.00**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**28-Nov-2023 / 18:45**	*Run Time:*	**10**

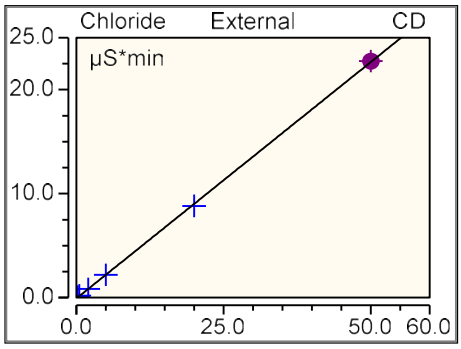
Calibration Summary

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffse	6.000	-0.030	0.631	0.000	99.9659
Chloride	Area	in, WithOffse	6.000	-0.081	0.455	0.000	99.9871
Bromide	Area	in, WithOffse	5.000	-0.007	0.132	0.000	99.5638
Sulfate	Area	in, WithOffse	6.000	-0.091	0.315	0.000	99.9968
Nitrate	Area	in, WithOffse	6.000	-0.126	1.455	0.000	99.8425
		AVERAGE:		-0.0670	0.5975	0.0000	99.8712

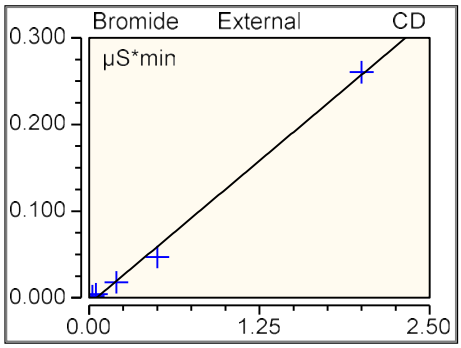
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Fluoride	Fluoride	Fluoride	Fluoride
STD 0.5	2.223	0.0108	0.092	0.065
STD 1.0	2.223	0.0210	0.183	0.081
STD 2.0	2.223	0.0911	0.848	0.192
STD 3.0	2.227	0.2602	2.441	0.460
STD 4.0	2.230	1.2037	10.710	1.956
STD 5.0	2.237	3.1366	25.571	5.021
Average	2.227			
Rel. Std. Dev.	0.240 %			



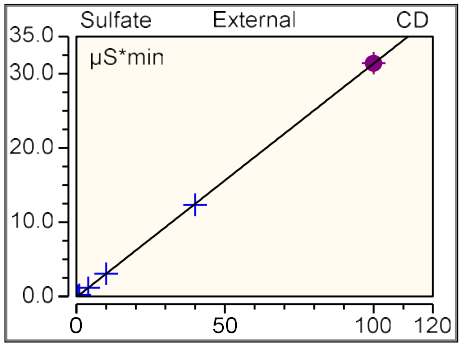
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.250	0.0938	0.757	0.385
STD 1.0	3.253	0.2028	1.686	0.625
STD 2.0	3.250	0.8321	7.038	2.008
STD 3.0	3.250	2.1893	18.392	4.991
STD 4.0	3.243	8.8219	72.839	19.570
STD 5.0	3.237	22.7438	184.215	50.171
Average	3.247			
Rel. Std. Dev.	0.188 %			



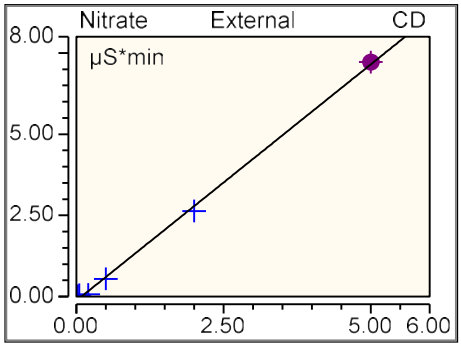
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	5.477	0.0021	0.013	0.070
STD 1.0	5.480	0.0041	0.027	0.085
STD 2.0	5.483	0.0178	0.115	0.189
STD 3.0	5.477	0.0470	0.318	0.409
STD 4.0	5.460	0.2603	1.768	2.022
STD 5.0	5.417	0.7638	5.189	5.829
Average	5.466			
Rel. Std. Dev.	0.462 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	6.167	0.1071	0.494	0.629
STD 1.0	6.167	0.2404	1.137	1.053
STD 2.0	6.147	1.1799	5.554	4.040
STD 3.0	6.110	3.0709	14.370	10.053
STD 4.0	5.977	12.3499	48.930	39.556
STD 5.0	5.810	31.4132	97.052	100.170
Average	6.063			
Rel. Std. Dev.	2.358 %			



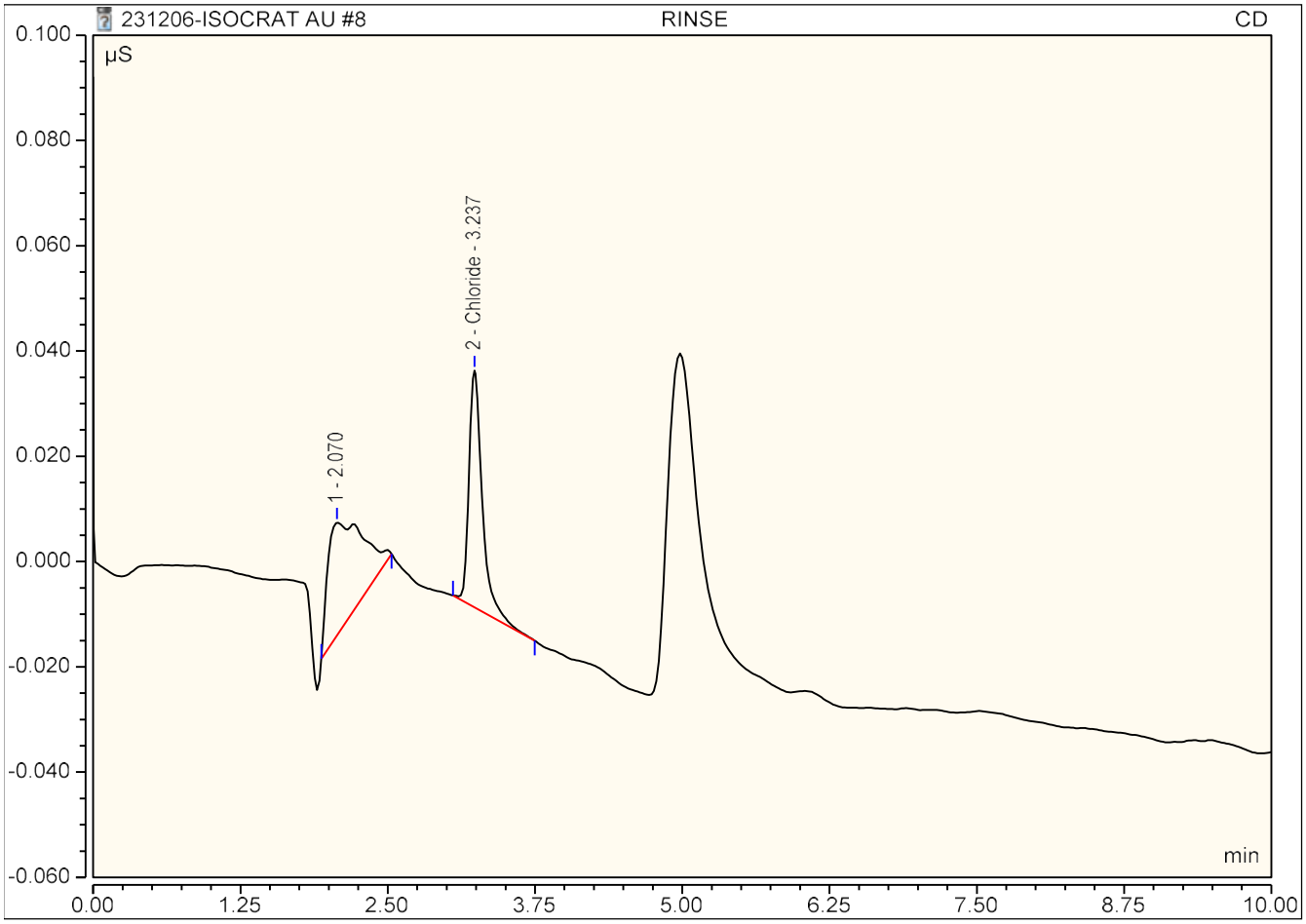
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	6.513	0.0290	0.114	0.106
STD 1.0	6.513	0.0568	0.232	0.125
STD 2.0	6.477	0.0735	0.334	0.137
STD 3.0	6.497	0.5487	2.395	0.463
STD 4.0	6.457	2.6354	10.945	1.897
STD 5.0	6.387	7.2183	26.701	5.046
Average	6.474			
Rel. Std. Dev.	0.742 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 16:16**	*Run Time:*	**10.00**

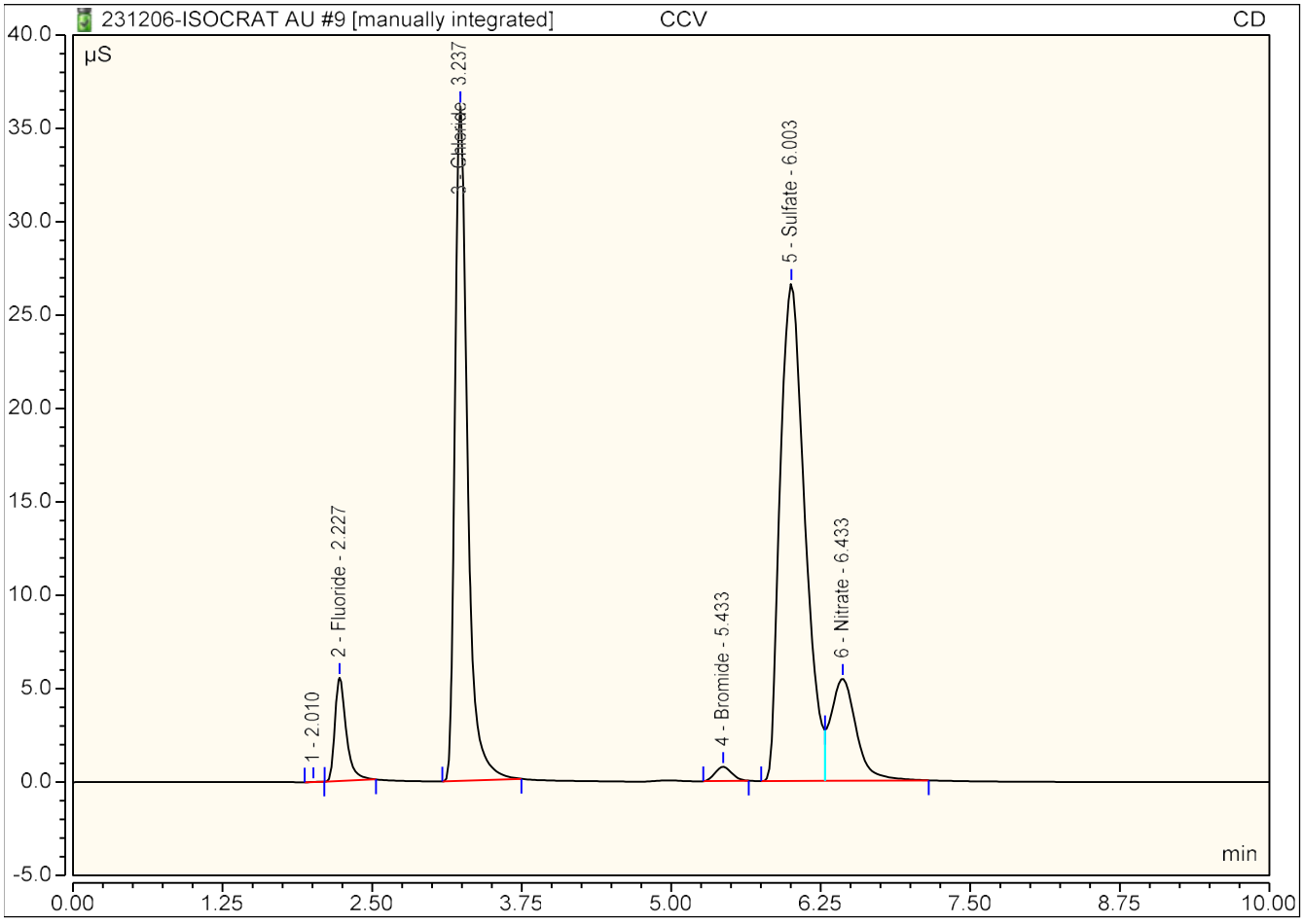
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.24	**Chloride**	BMB	0.006	0.045	0.1920
		TOTAL:		0.01	0.04	0.19



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 16:28**	*Run Time:*	**10.00**

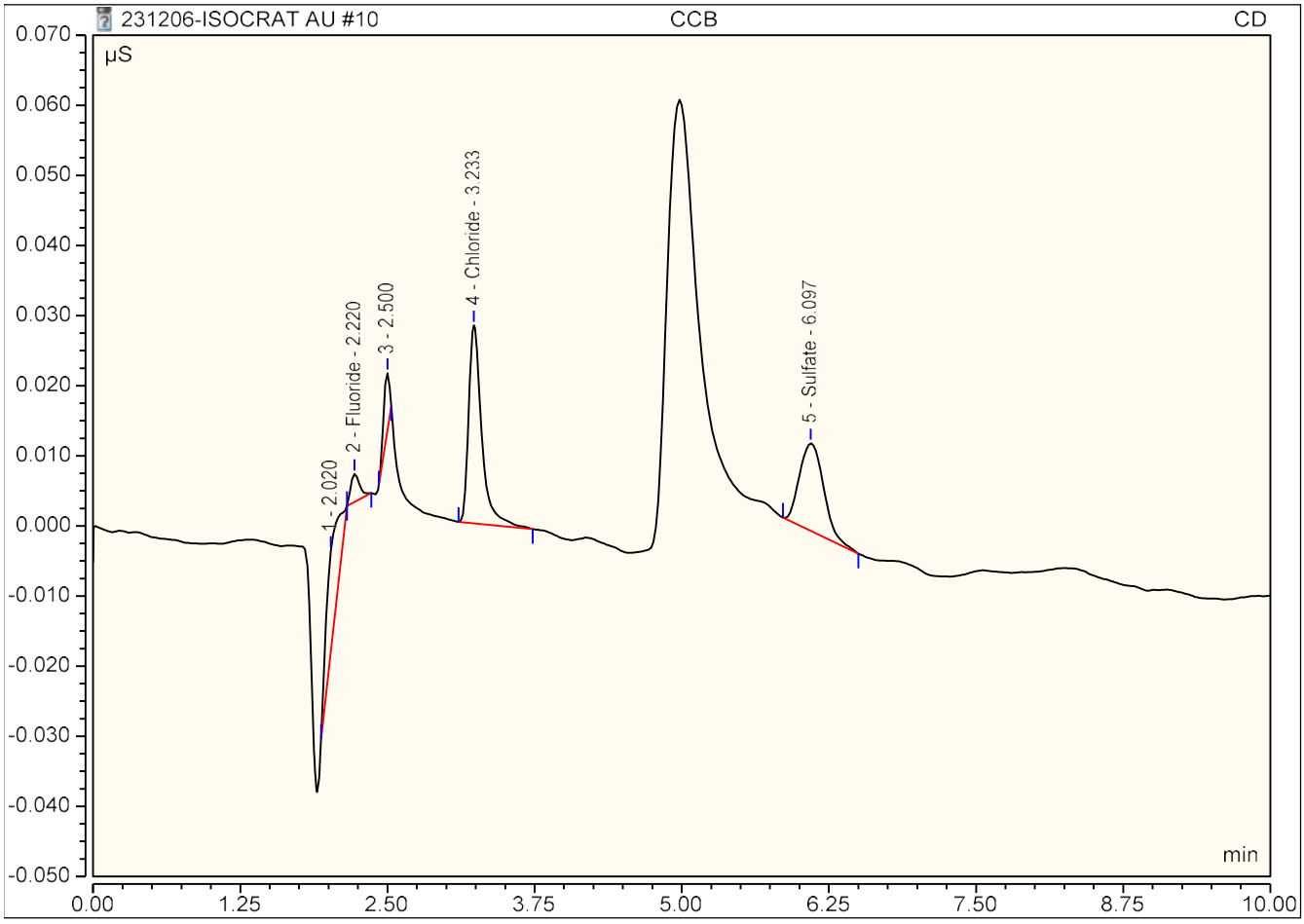
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.608	5.529	1.0114
3	3.24	**Chloride**	BMB	4.444	36.125	9.9473
4	5.43	**Bromide**	BMB*	0.122	0.758	0.9803
5	6.00	**Sulfate**	BM *	6.357	26.627	20.4998
6	6.43	**Nitrate**	MB*	1.352	5.469	1.0151
TOTAL:				12.88	74.51	33.45



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 16:41**	*Run Time:*	**10.00**

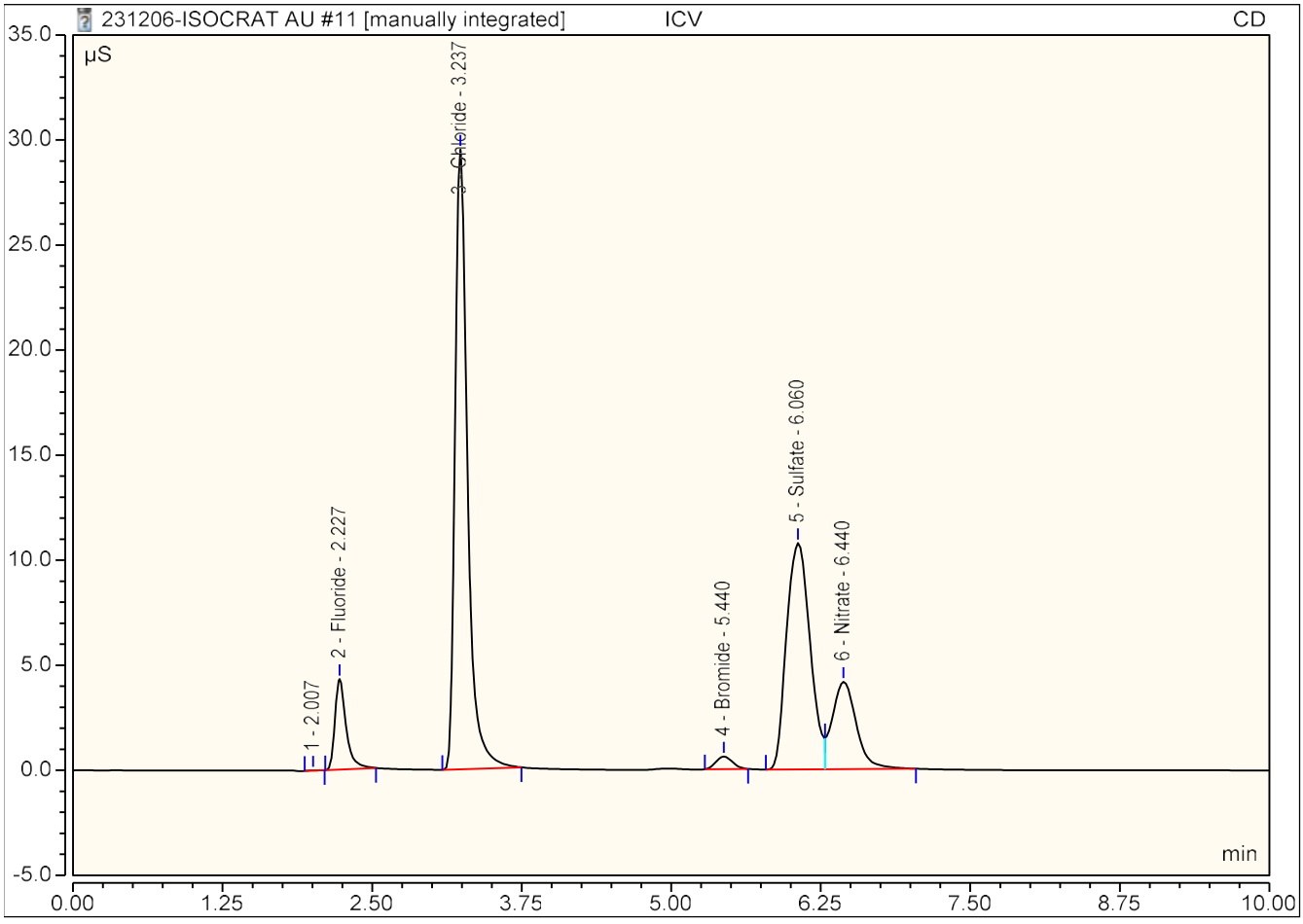
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.000	0.004	0.0480
4	3.23	**Chloride**	BMB	0.004	0.028	0.1871
5	6.10	**Sulfate**	BMB	0.003	0.012	0.2980
TOTAL:				0.01	0.04	0.53



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 16:53**	*Run Time:*	**10.00**

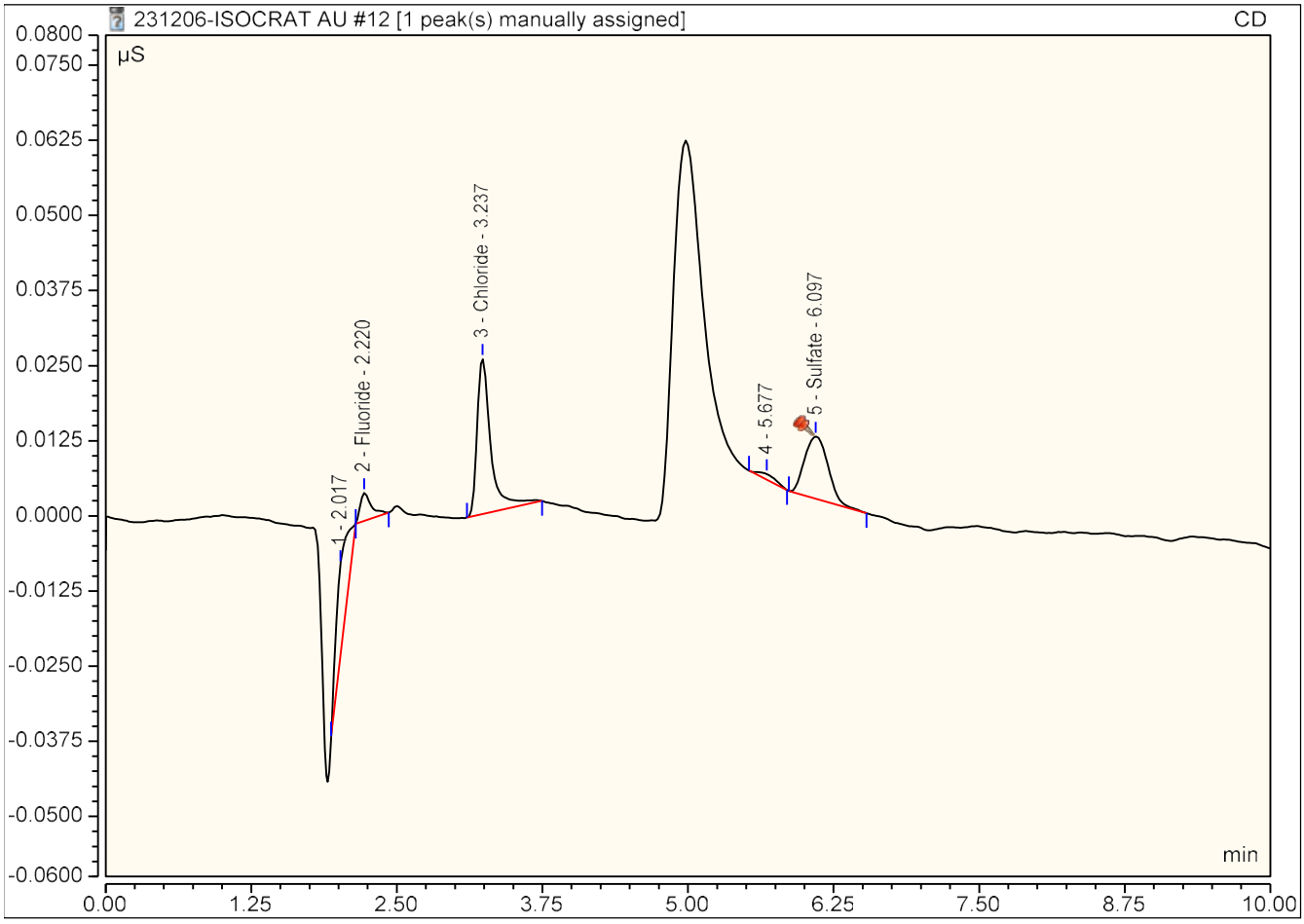
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.466	4.305	0.7857
3	3.24	**Chloride**	BMB	3.601	29.487	8.0943
4	5.44	**Bromide**	BMB*	0.097	0.601	0.7852
5	6.06	**Sulfate**	BM *	2.463	10.768	8.1188
6	6.44	**Nitrate**	MB*	0.968	4.159	0.7513
TOTAL:				7.59	49.32	18.54



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 17:05**	*Run Time:*	**10.00**

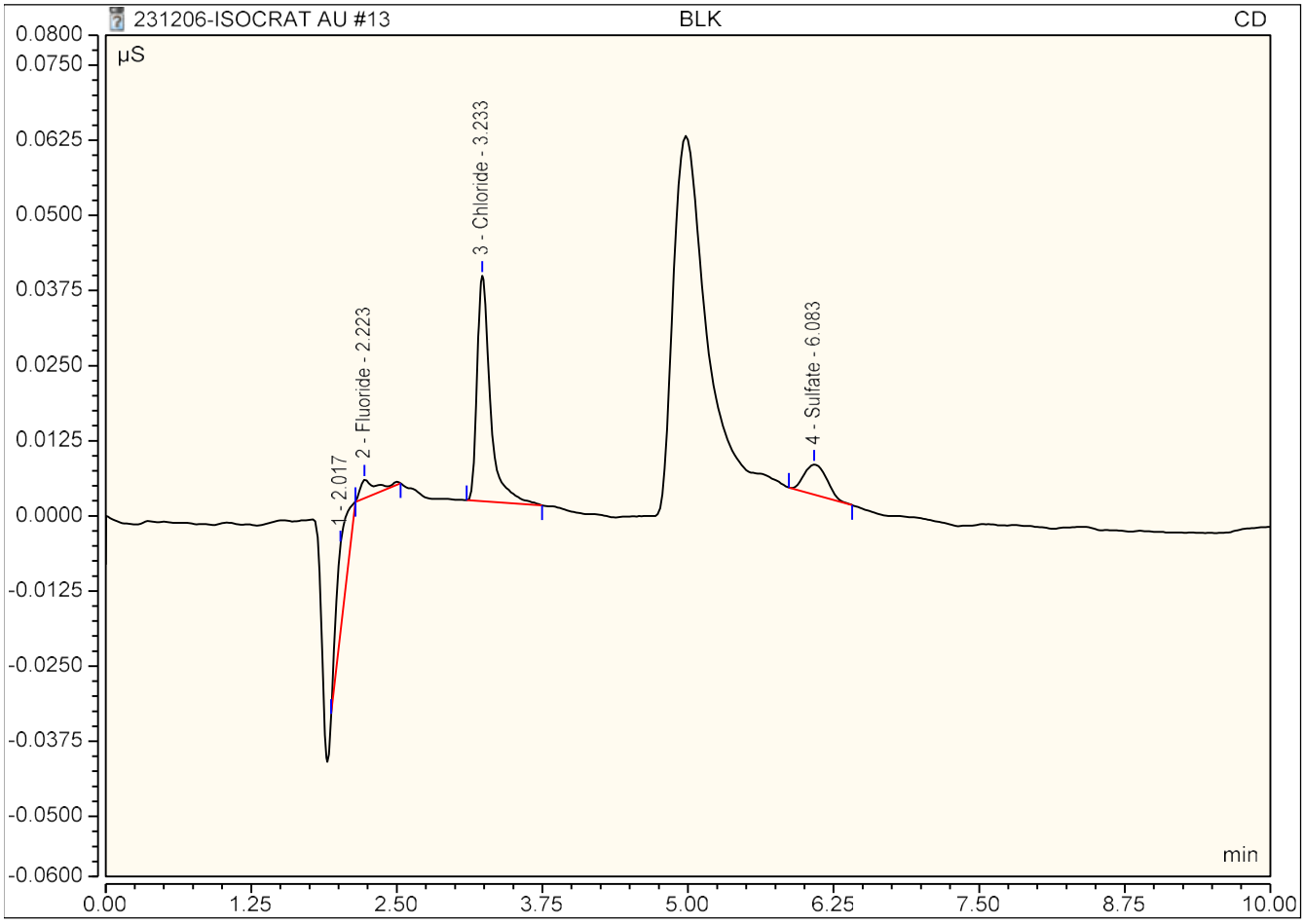
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.001	0.005	0.0483
3	3.24	**Chloride**	BMB	0.004	0.026	0.1868
5	6.10	**Sulfate**	BMB^	0.002	0.010	0.2962
TOTAL:				0.01	0.04	0.53



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 17:17**	*Run Time:*	**10.00**

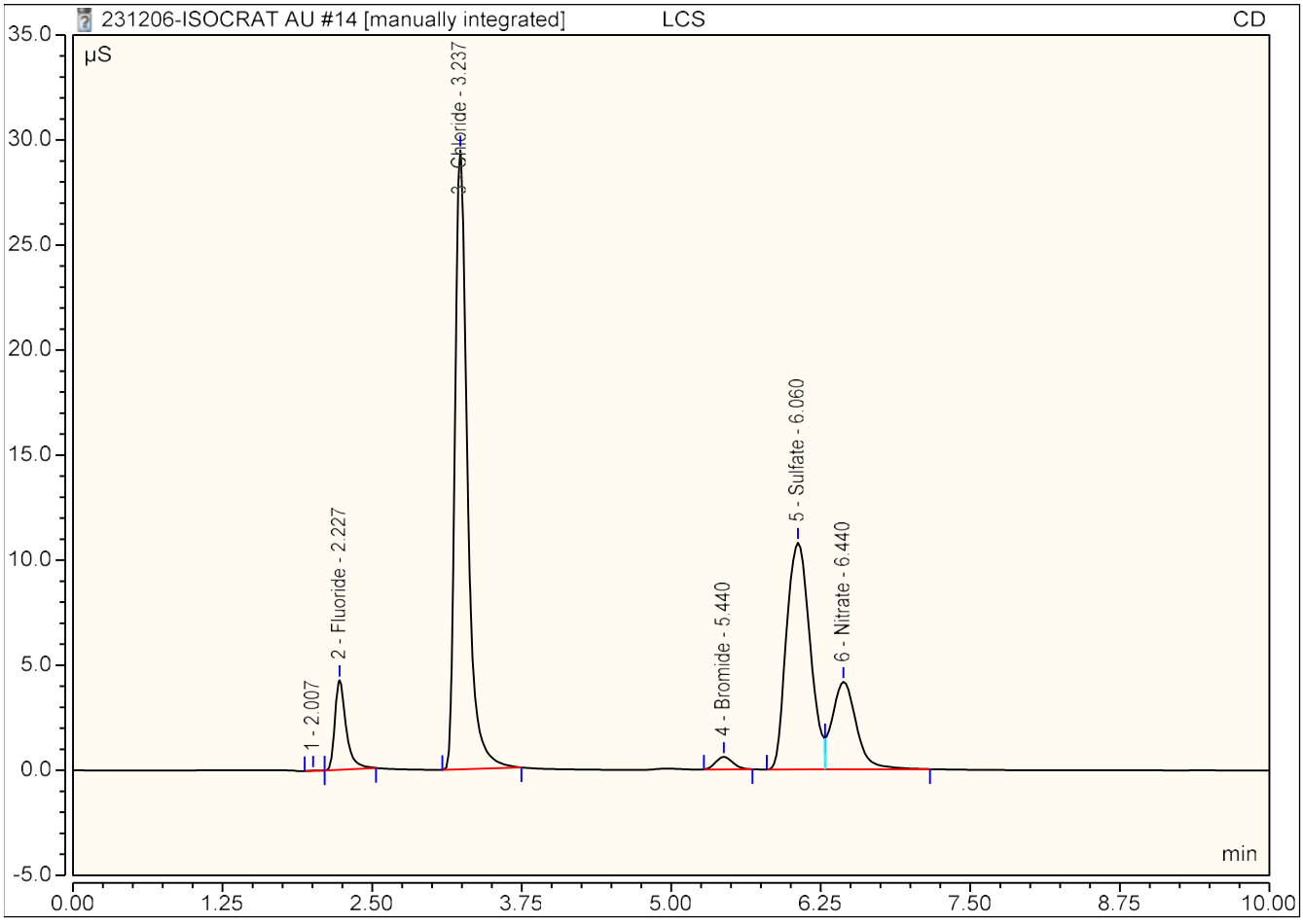
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.000	0.003	0.0482
3	3.23	**Chloride**	BMB	0.005	0.038	0.1900
4	6.08	**Sulfate**	BMB	0.001	0.005	0.2922
TOTAL:				0.01	0.05	0.53



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 17:29**	*Run Time:*	**10.00**

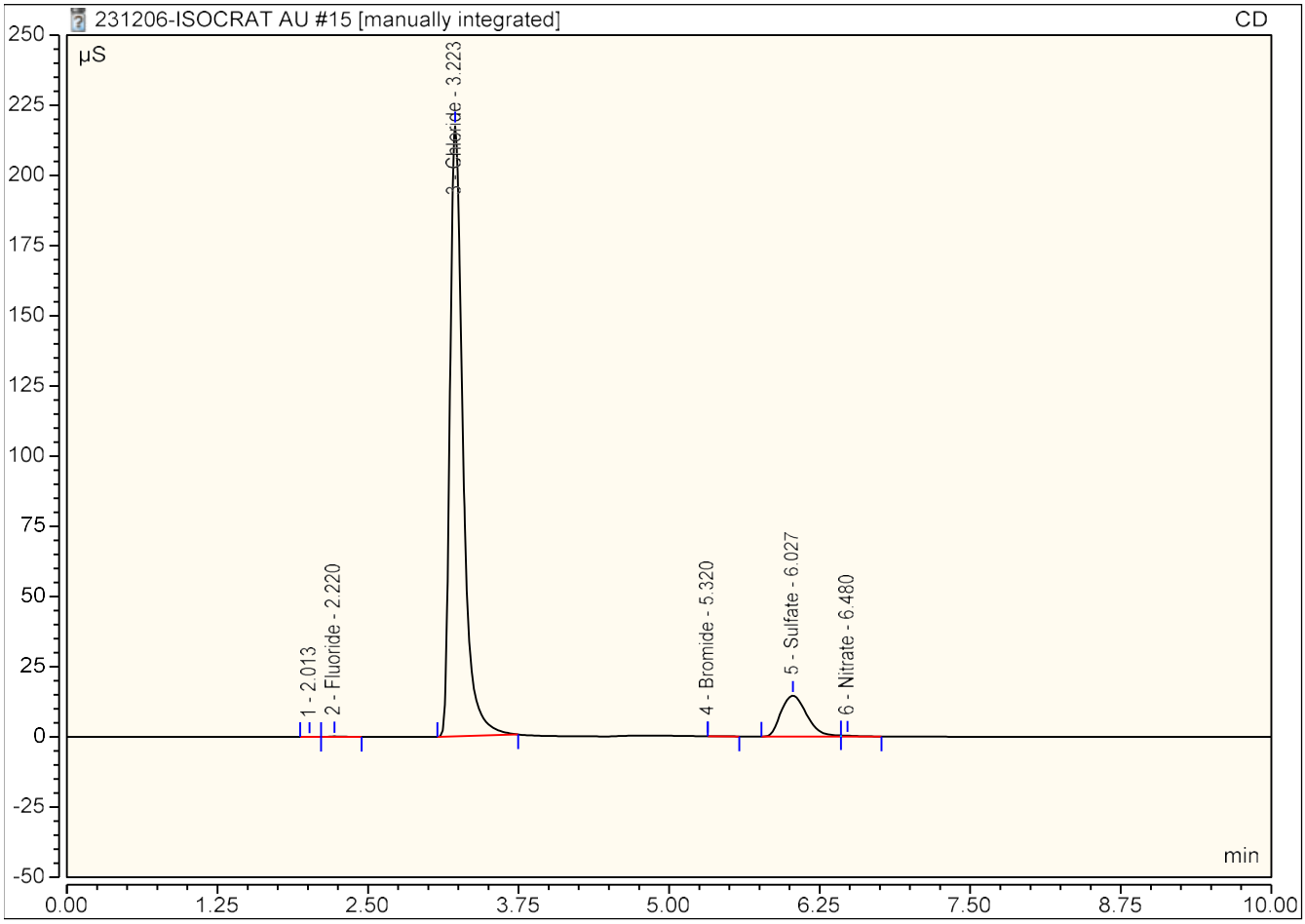
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.462	4.264	0.7805
3	3.24	**Chloride**	BMB	3.599	29.469	8.0890
4	5.44	**Bromide**	BMB*	0.099	0.599	0.8037
5	6.06	**Sulfate**	BM *	2.471	10.792	8.1461
6	6.44	**Nitrate**	MB*	0.976	4.165	0.7568
TOTAL:				7.61	49.29	18.58



Peak Integration Report

Sample Name:	**L2371097-01 CL SO4 BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 17:41**	*Run Time:*	**10.00**

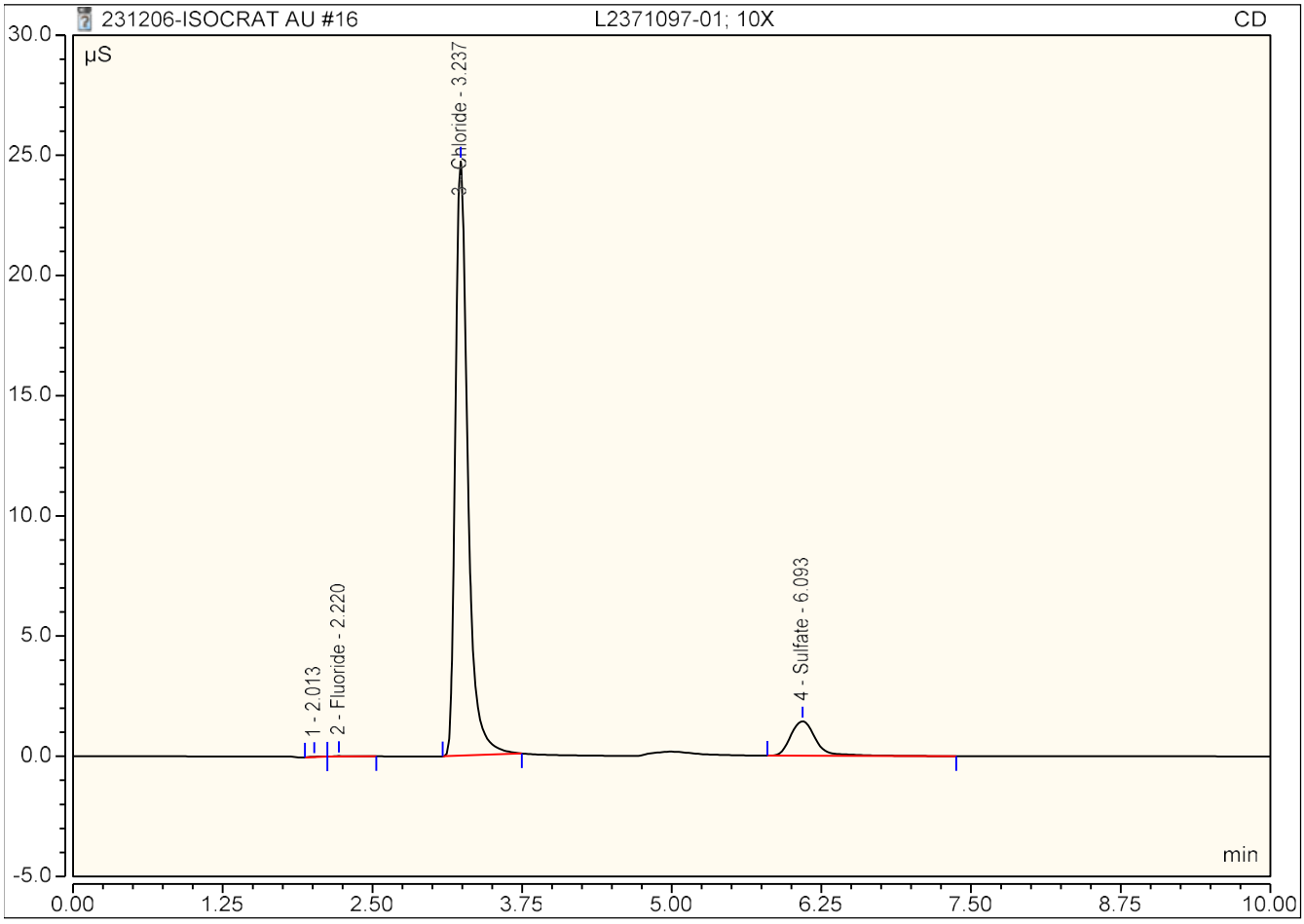
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.018	0.157	0.0764
3	3.22	**Chloride**	BMB	27.257	217.311	60.0915
4	5.32	**Bromide**	BMB*	0.004	0.000	0.0813
5	6.03	**Sulfate**	BM *	3.603	14.576	11.7459
6	6.48	**Nitrate**	MB*	0.048	0.300	0.1195
TOTAL:				30.93	232.34	72.11



Peak Integration Report

Sample Name:	**L2371097-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 17:53**	*Run Time:*	**10.00**

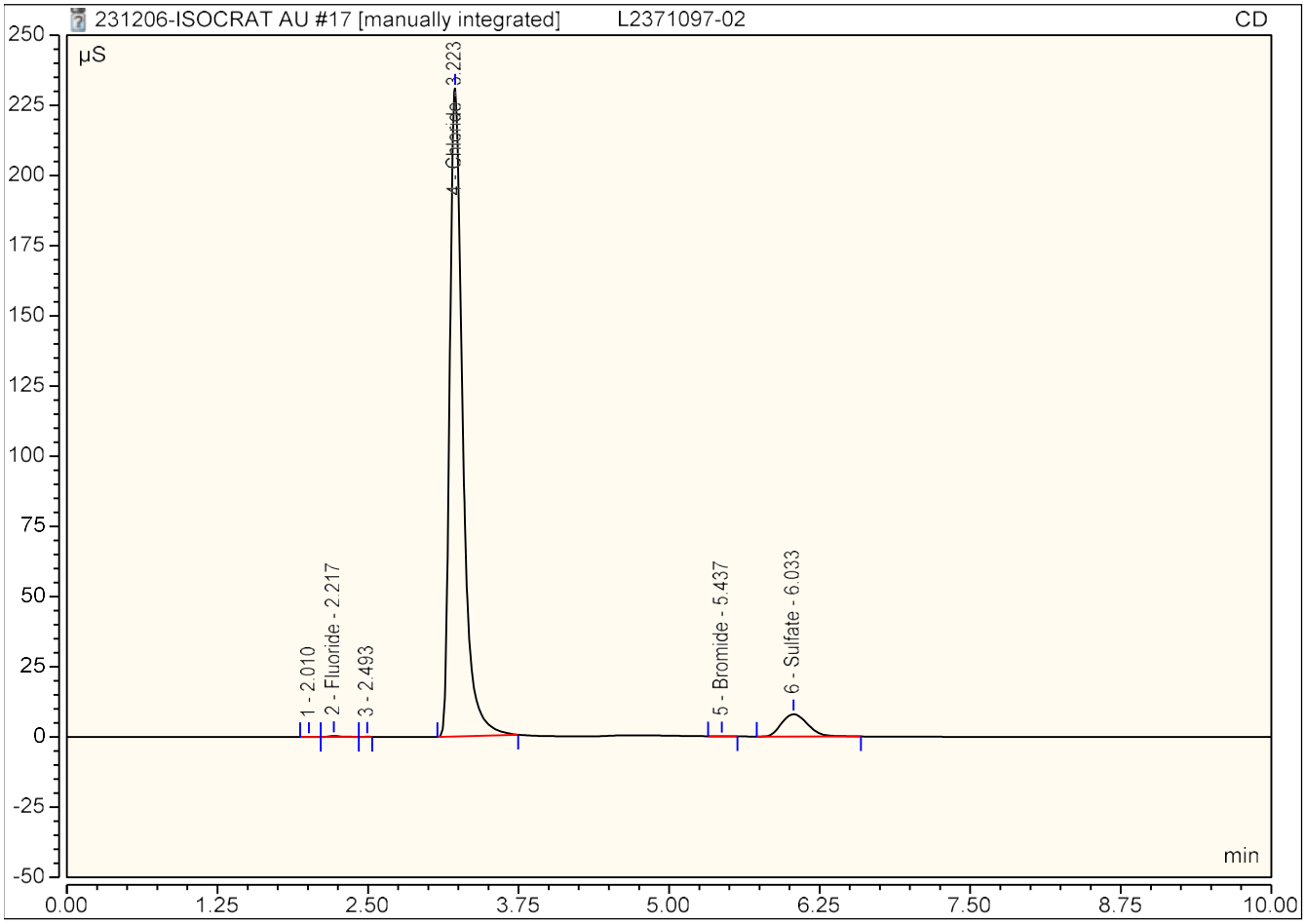
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.002	0.018	0.5134
3	3.24	**Chloride**	BMB	3.015	24.725	68.0652
4	6.09	**Sulfate**	BMB	0.352	1.435	14.0771
TOTAL:				3.37	26.18	82.66



Peak Integration Report

Sample Name:	**L2371097-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 18:05**	*Run Time:*	**10.00**

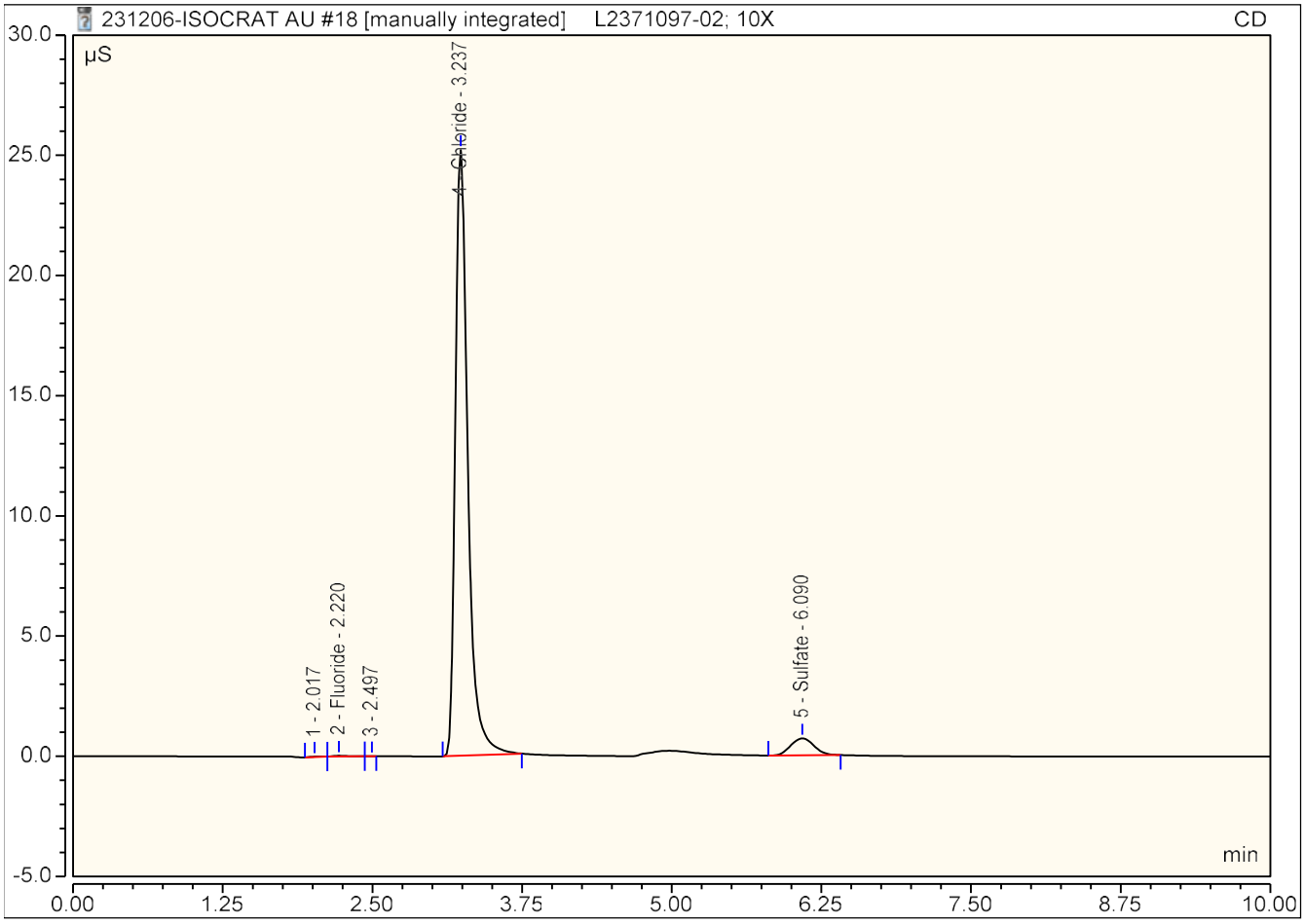
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.034	0.308	0.1014
4	3.22	**Chloride**	BMB	28.903	230.787	63.7089
5	5.44	**Bromide**	BMB*	0.002	0.012	0.0662
6	6.03	**Sulfate**	BMB*	2.007	7.939	6.6695
TOTAL:				30.95	239.05	70.55



Peak Integration Report

Sample Name:	**L2371097-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 18:17**	*Run Time:*	**10.00**

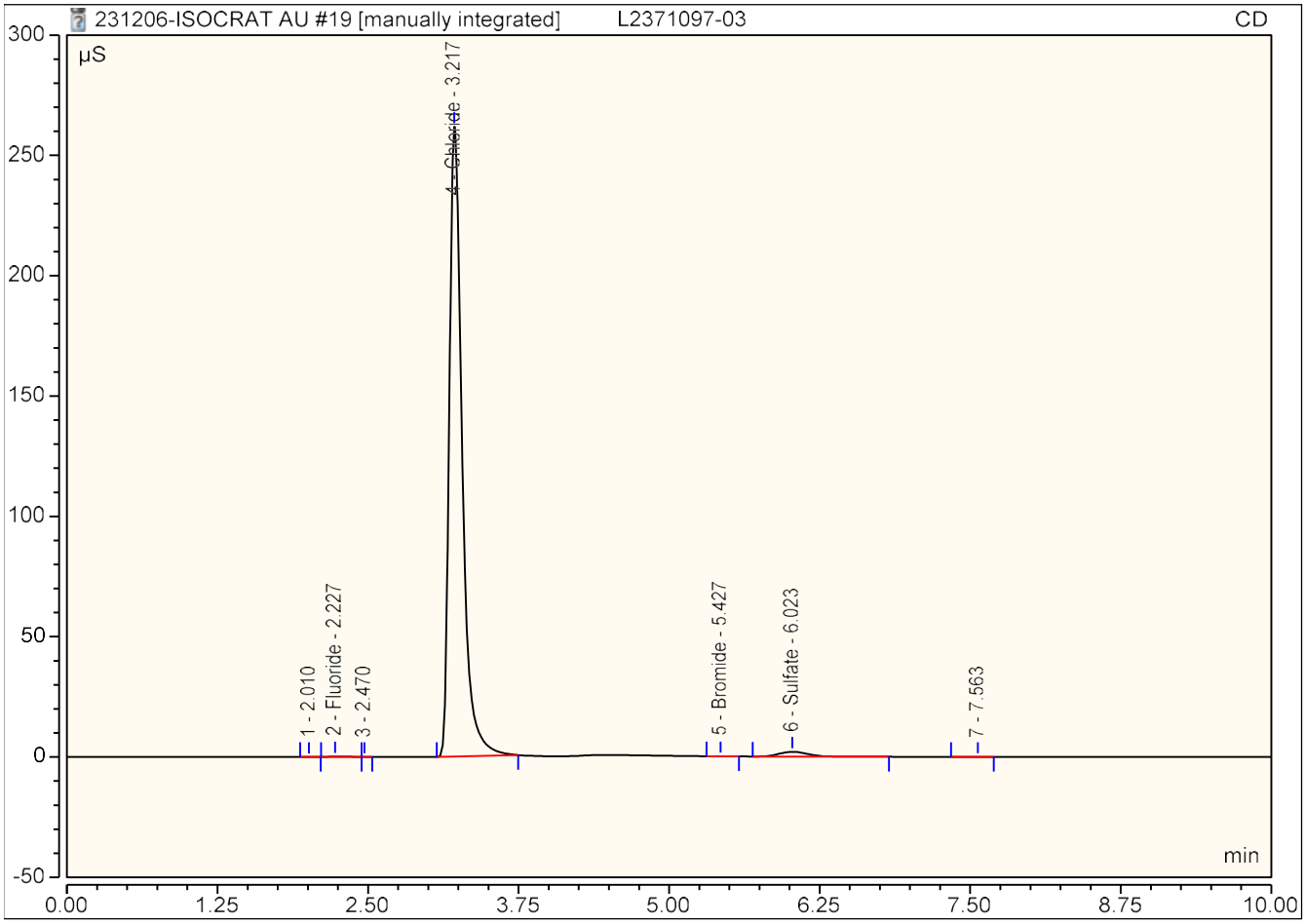
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.004	0.031	0.5312
4	3.24	**Chloride**	BMB	3.082	25.206	69.5314
5	6.09	**Sulfate**	BMB*	0.159	0.701	7.9485
TOTAL:				3.24	25.94	78.01



Peak Integration Report

Sample Name:	**L2371097-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 18:29**	*Run Time:*	**10.00**

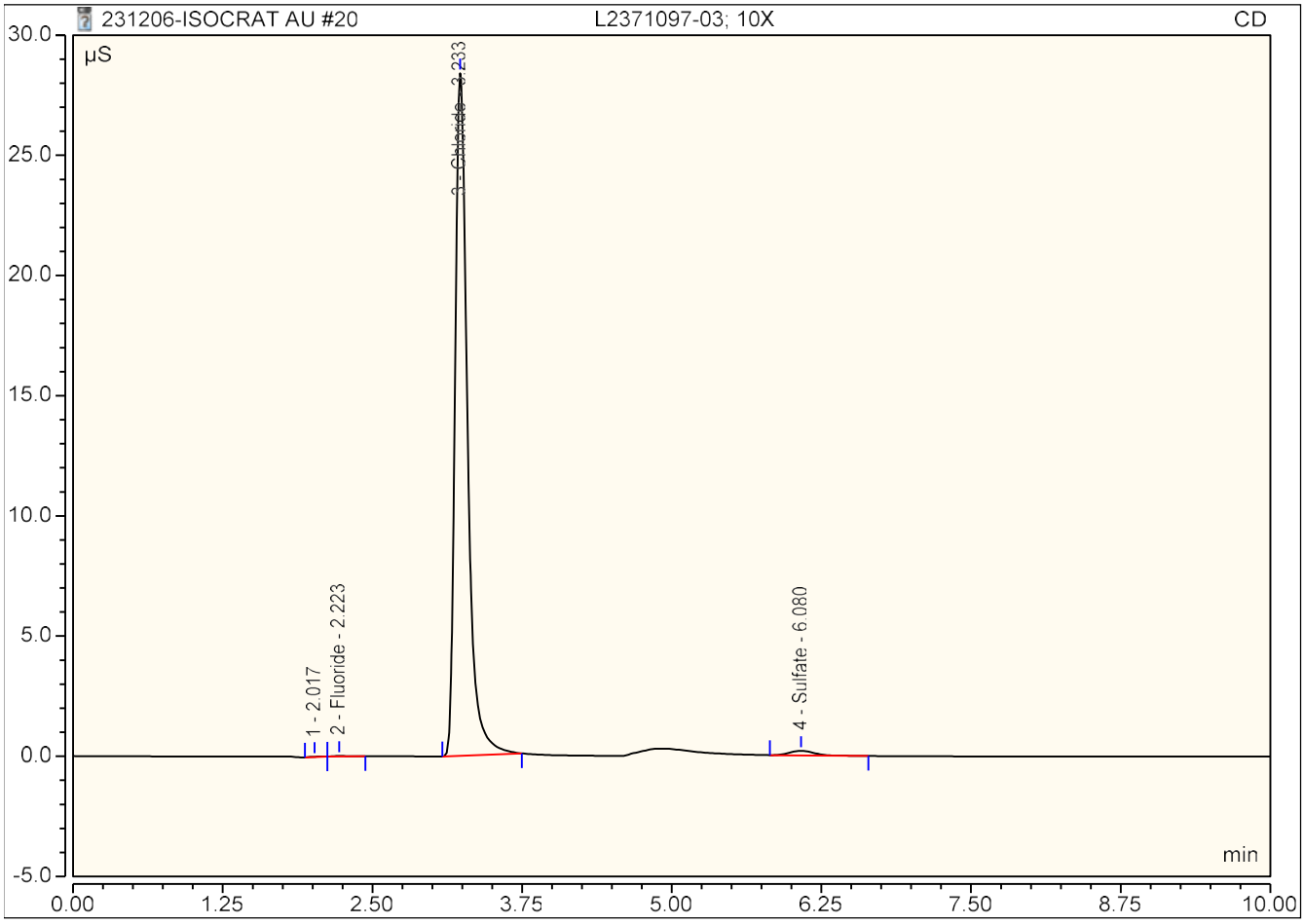
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.028	0.198	0.0918
4	3.22	**Chloride**	BMB	32.332	261.682	71.2460
5	5.43	**Bromide**	BMB*	0.002	0.015	0.0712
6	6.02	**Sulfate**	BMB	0.546	1.985	2.0233
TOTAL:				32.91	263.88	73.43



Peak Integration Report

Sample Name:	**L2371097-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 18:42**	*Run Time:*	**10.00**

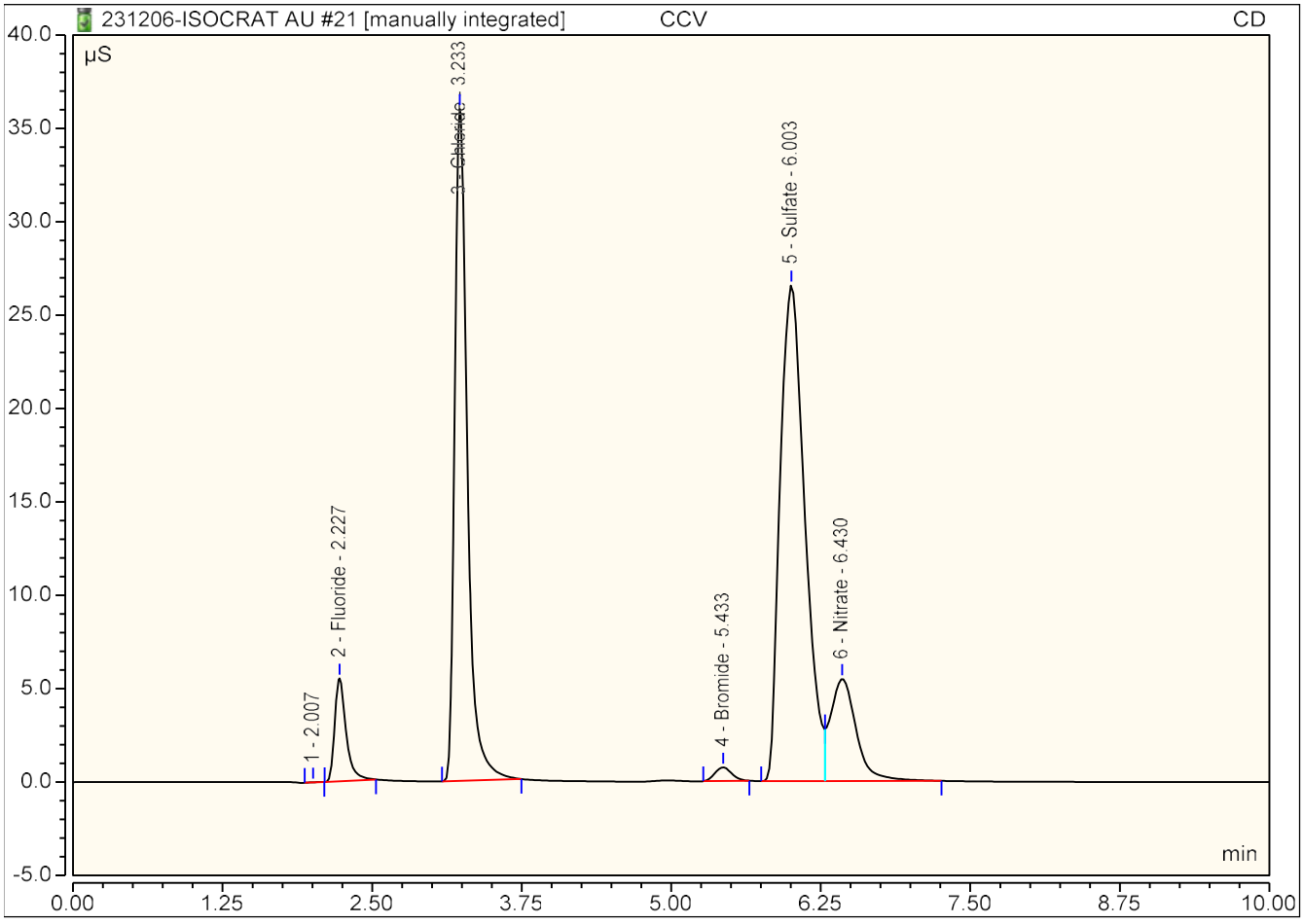
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.003	0.021	0.5187
3	3.23	**Chloride**	BMB	3.441	28.391	77.4211
4	6.08	**Sulfate**	BMB	0.046	0.192	4.3555
TOTAL:				3.49	28.60	82.30



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 18:54**	*Run Time:*	**10.00**

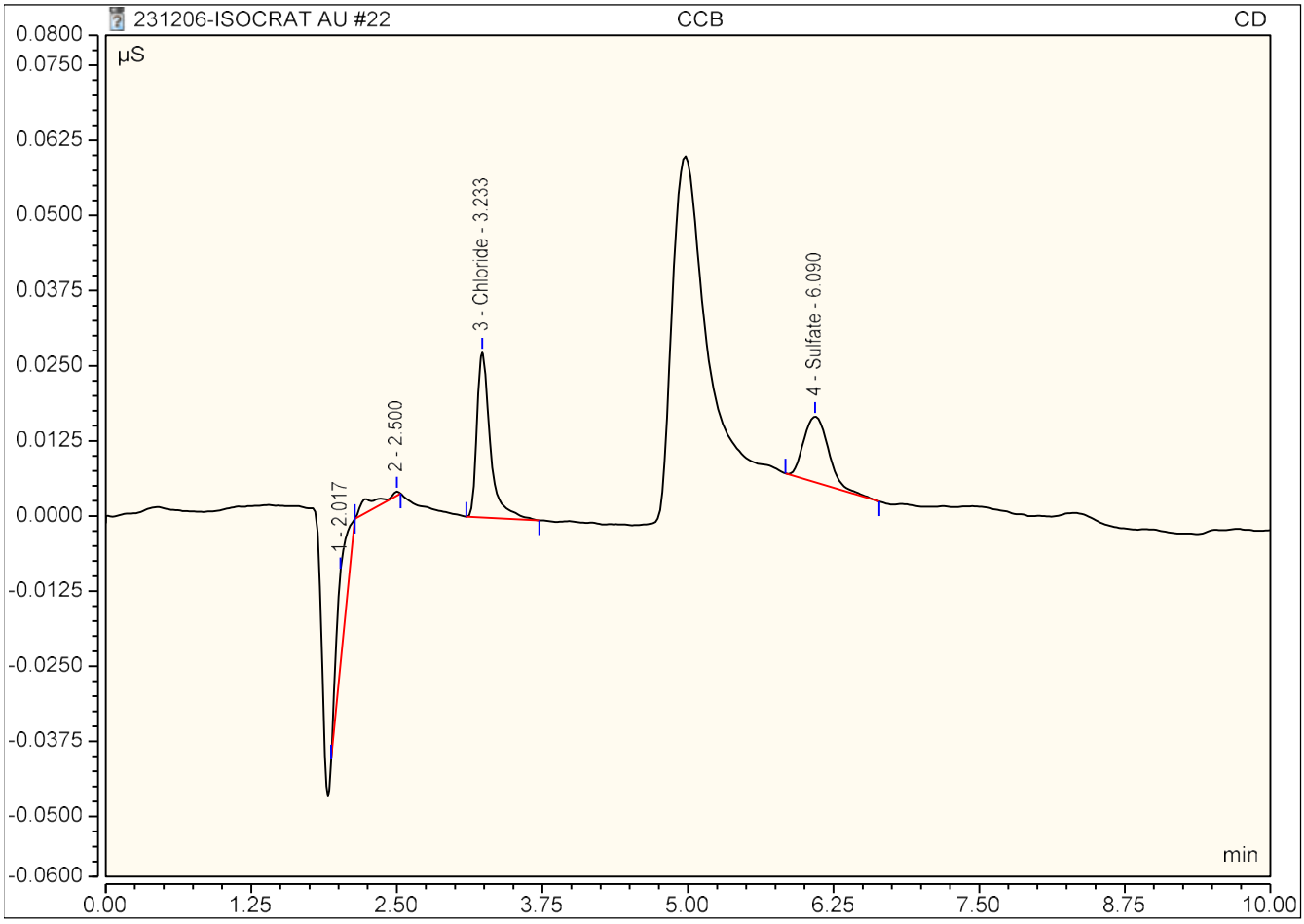
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.608	5.515	1.0116
3	3.23	**Chloride**	BMB	4.447	35.992	9.9539
4	5.43	**Bromide**	BMB*	0.119	0.732	0.9524
5	6.00	**Sulfate**	BM *	6.369	26.554	20.5390
6	6.43	**Nitrate**	MB*	1.360	5.471	1.0209
TOTAL:				12.90	74.26	33.48



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 19:06**	*Run Time:*	**10.00**

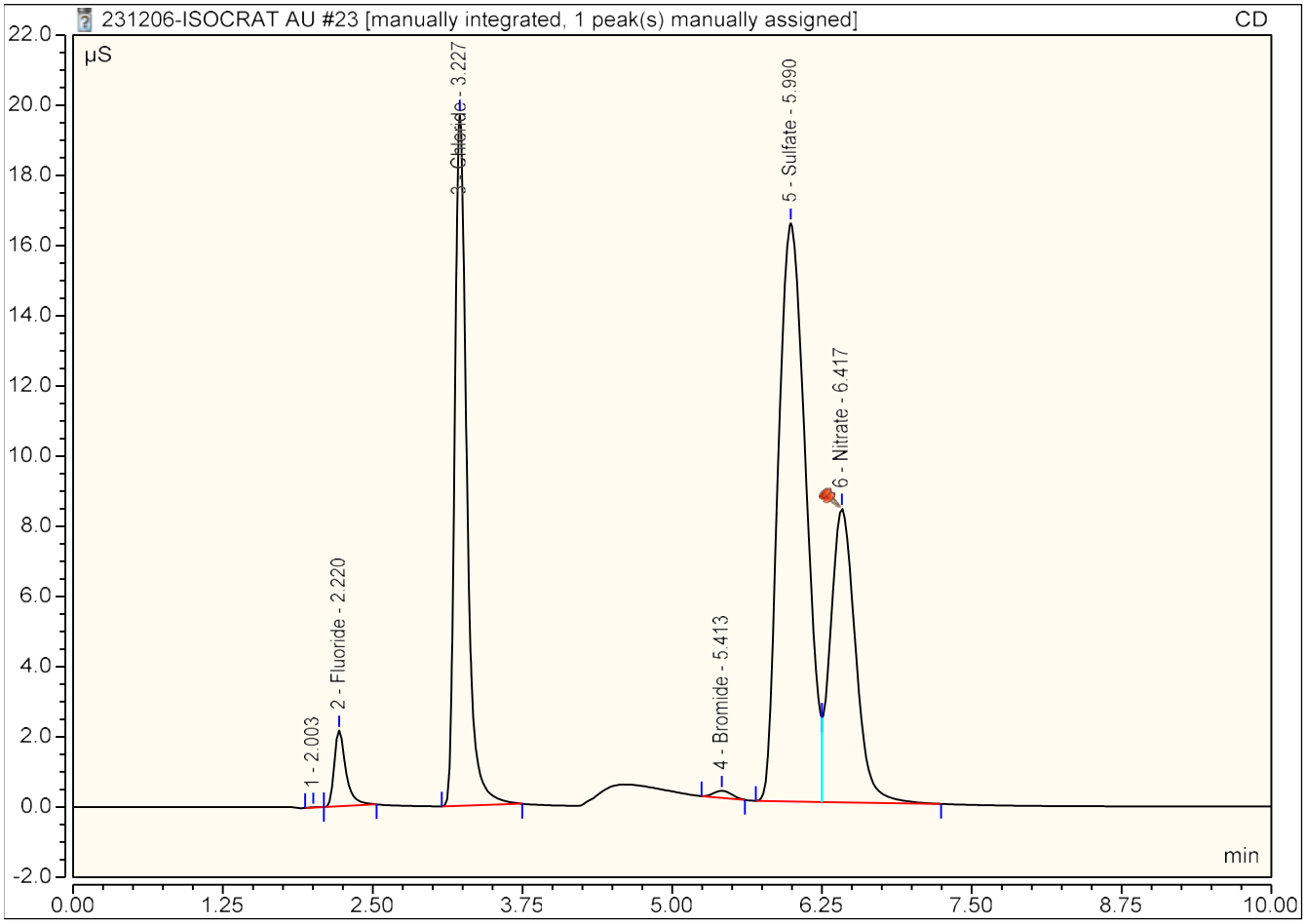
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.23	**Chloride**	BMB	0.004	0.027	0.1872
4	6.09	**Sulfate**	BMB	0.003	0.011	0.2971
TOTAL:				0.01	0.04	0.48



Peak Integration Report

Sample Name:	**L2371097-05 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 19:18**	*Run Time:*	**10.00**

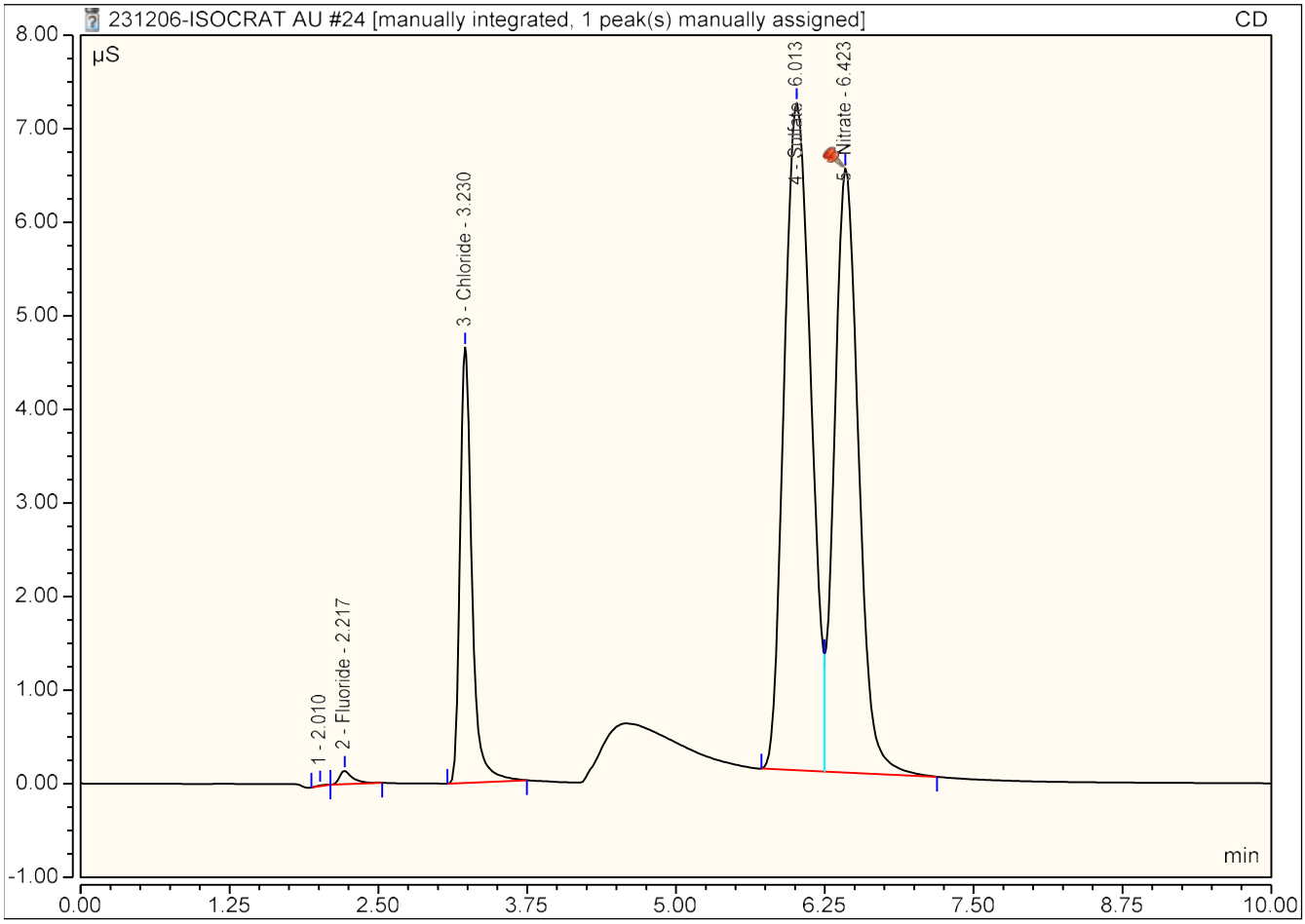
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.244	2.159	0.4340
3	3.23	**Chloride**	BMB	2.303	19.703	5.2410
4	5.41	**Bromide**	BMB*	0.036	0.206	0.3245
5	5.99	**Sulfate**	BM *	4.345	16.474	14.1031
6	6.42	**Nitrate**	MB*^	2.032	8.373	1.4827
TOTAL:				8.96	46.92	21.59



Peak Integration Report

Sample Name:	**L2371097-05 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 19:30**	*Run Time:*	**10.00**

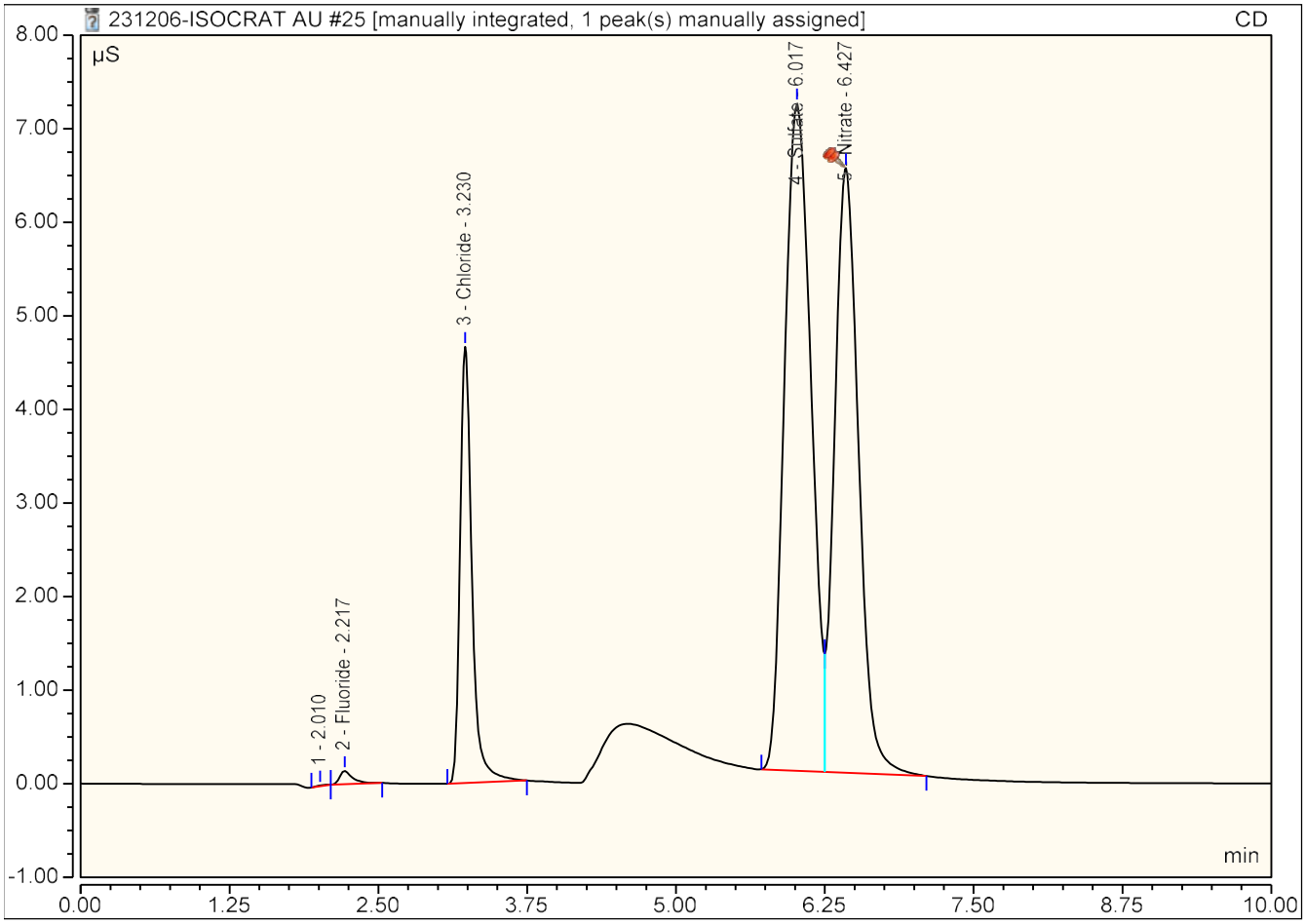
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.018	0.141	0.0759
3	3.23	**Chloride**	BMB	0.538	4.652	1.3622
4	6.01	**Sulfate**	BM *	1.840	7.130	6.1400
5	6.42	**Nitrate**	MB*^	1.518	6.455	1.1296
TOTAL:				3.91	18.38	8.71



Peak Integration Report

Sample Name:	**L2371097-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 19:42**	*Run Time:*	**10.00**

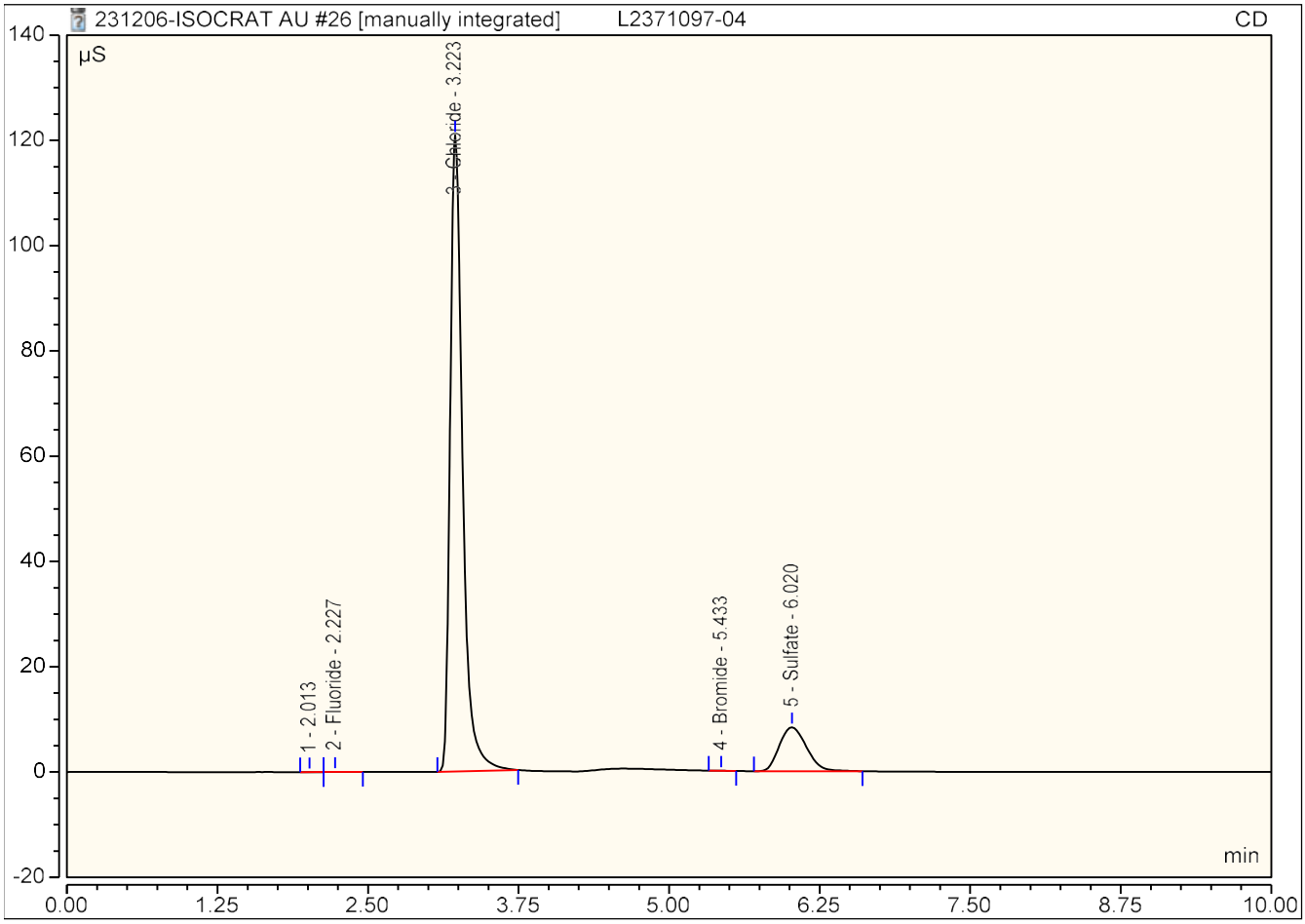
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.018	0.141	0.0757
3	3.23	**Chloride**	BMB	0.538	4.662	1.3617
4	6.02	**Sulfate**	BM *	1.839	7.134	6.1372
5	6.43	**Nitrate**	MB*^	1.512	6.460	1.1252
TOTAL:				3.91	18.40	8.70



Peak Integration Report

Sample Name:	**L2371097-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 19:54**	*Run Time:*	**10.00**

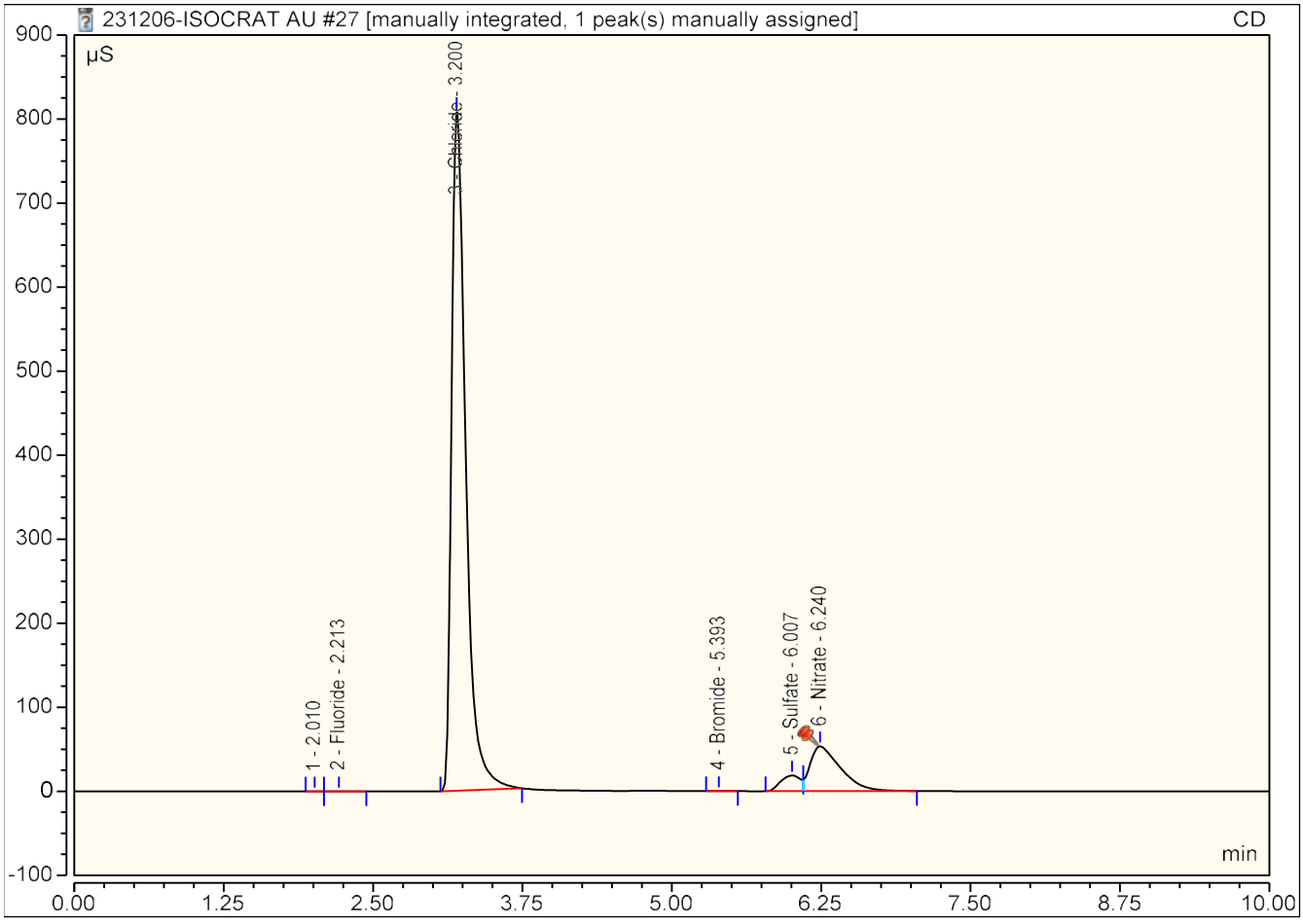
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.007	0.039	0.0581
3	3.22	**Chloride**	BMB	14.455	120.842	31.9515
4	5.43	**Bromide**	BMB*	0.001	0.007	0.0611
5	6.02	**Sulfate**	BMB*	2.181	8.345	7.2232
TOTAL:				16.64	129.23	39.29



Peak Integration Report

Sample Name:	**L2371097-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 20:06**	*Run Time:*	**10.00**

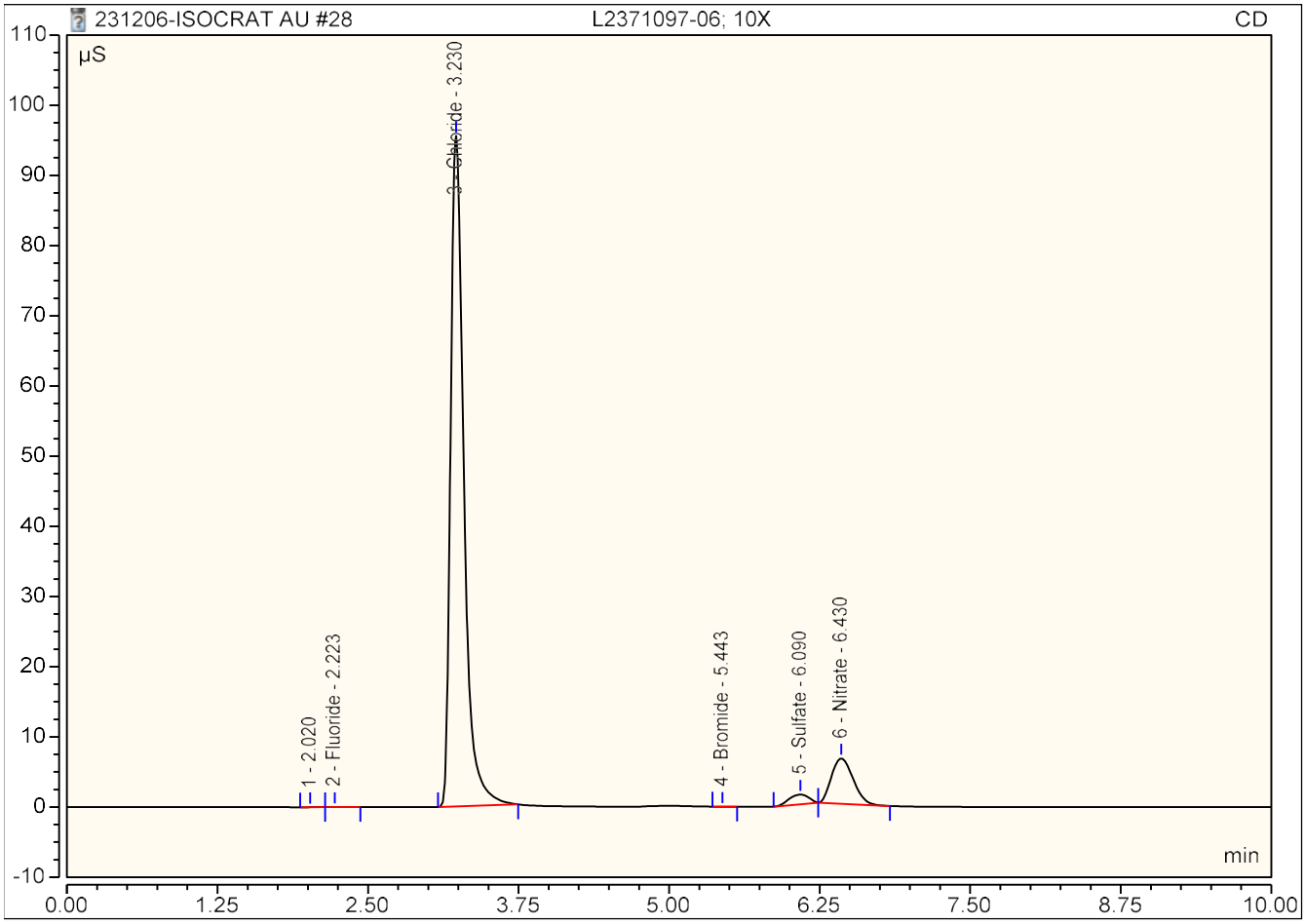
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.21	**Fluoride**	BMB	0.012	0.094	0.0667
3	3.20	**Chloride**	BMB	110.988	807.438	244.1344
4	5.39	**Bromide**	BMB*	0.011	0.077	0.1403
5	6.01	**Sulfate**	BM *	3.540	18.646	11.5430
6	6.24	**Nitrate**	MB*^	15.636	53.440	10.8302
TOTAL:				130.19	879.69	266.71



Peak Integration Report

Sample Name:	**L2371097-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 20:18**	*Run Time:*	**10.00**

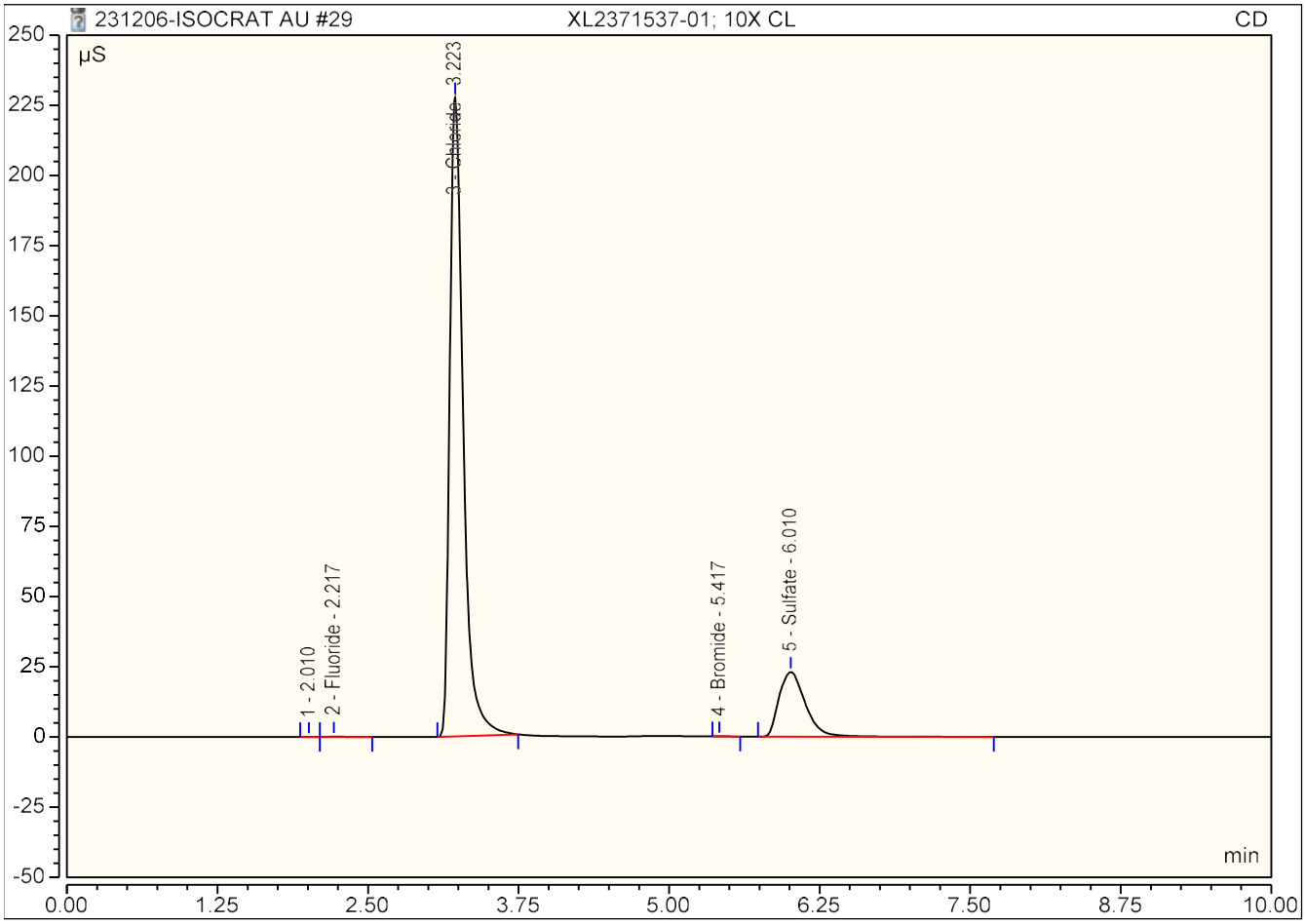
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.001	0.010	0.4980
3	3.23	**Chloride**	BMB	12.205	95.539	270.0517
4	5.44	**Bromide**	BMB	0.000	0.003	0.5698
5	6.09	**Sulfate**	BMB	0.259	1.361	11.1095
6	6.43	**Nitrate**	BMB	1.347	6.461	10.1203
TOTAL:				13.81	103.37	292.35



Peak Integration Report

Sample Name:	**XL2371537-01; 10X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 20:30**	*Run Time:*	**10.00**

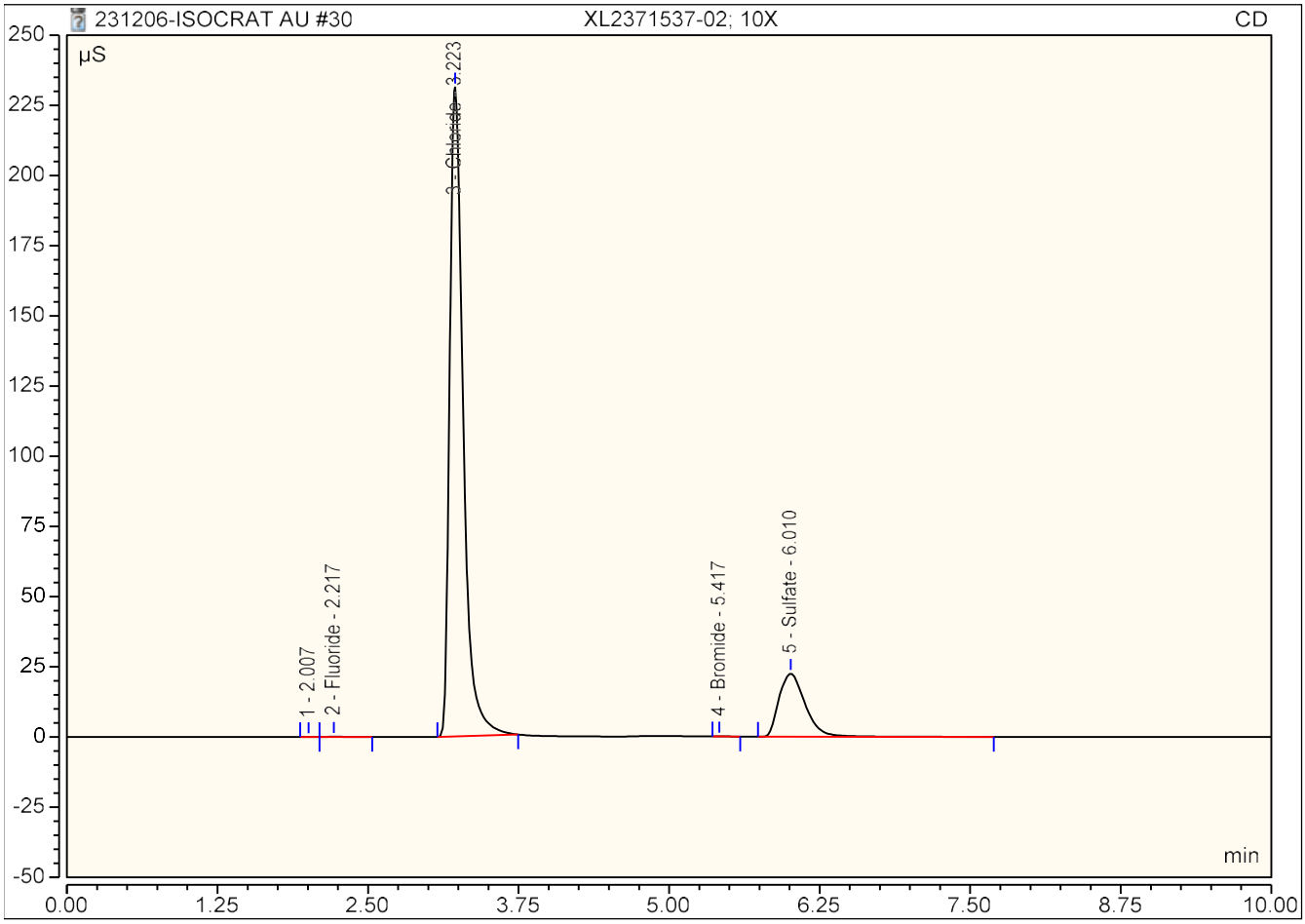
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.019	0.154	0.7828
3	3.22	**Chloride**	BMB	29.458	227.684	649.2959
4	5.42	**Bromide**	BMB	0.006	0.043	0.9757
5	6.01	**Sulfate**	BMB	5.849	23.093	188.8516
TOTAL:				35.33	250.97	839.91



Peak Integration Report

Sample Name:	**XL2371537-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 20:42**	*Run Time:*	**10.00**

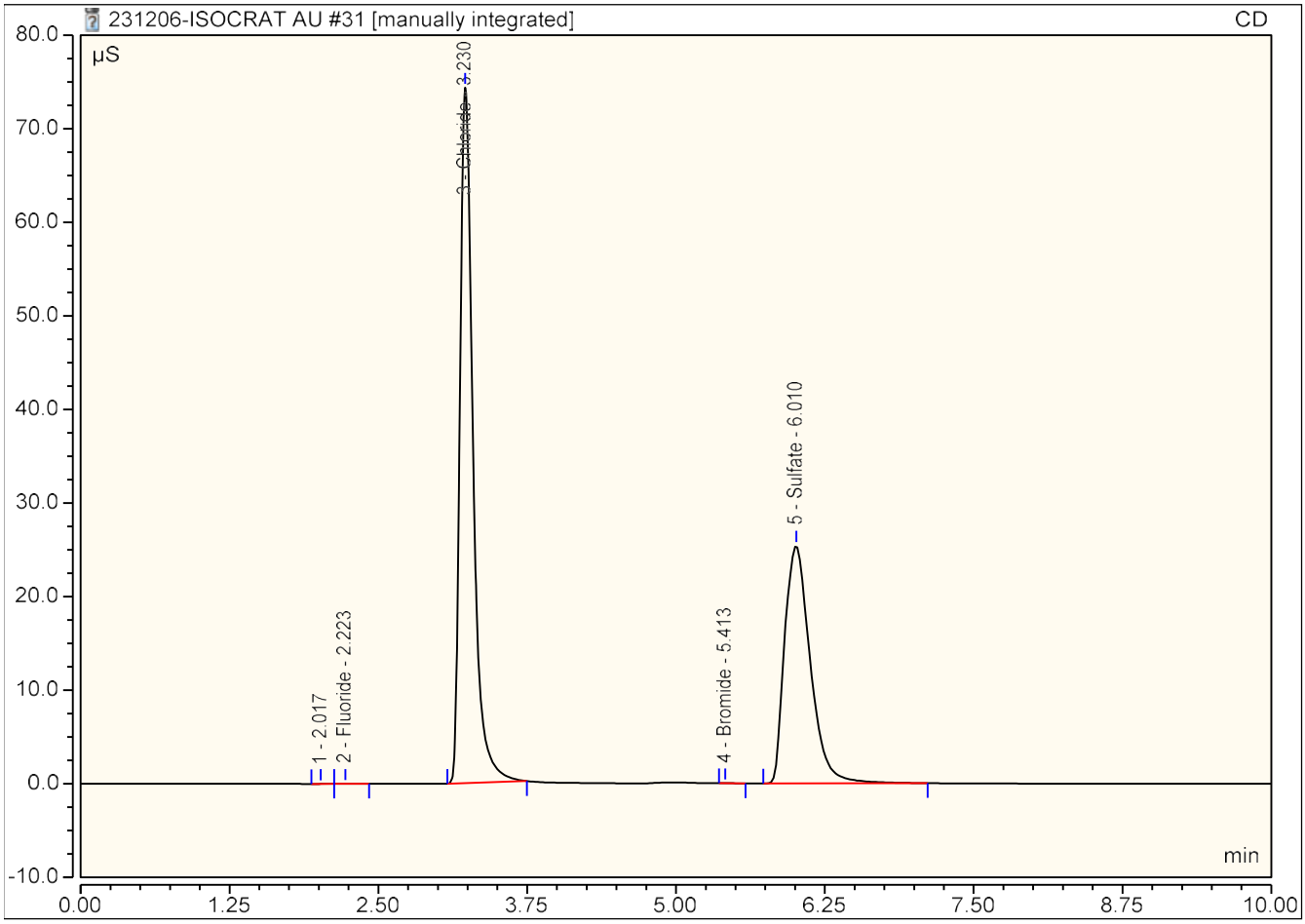
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.019	0.156	0.7685
3	3.22	**Chloride**	BMB	30.019	231.232	661.6213
4	5.42	**Bromide**	BMB	0.006	0.045	0.9903
5	6.01	**Sulfate**	BMB	5.683	22.476	183.5655
TOTAL:				35.73	253.91	846.95



Peak Integration Report

Sample Name:	**L2371679-01; 25X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 20:54**	*Run Time:*	**10.00**

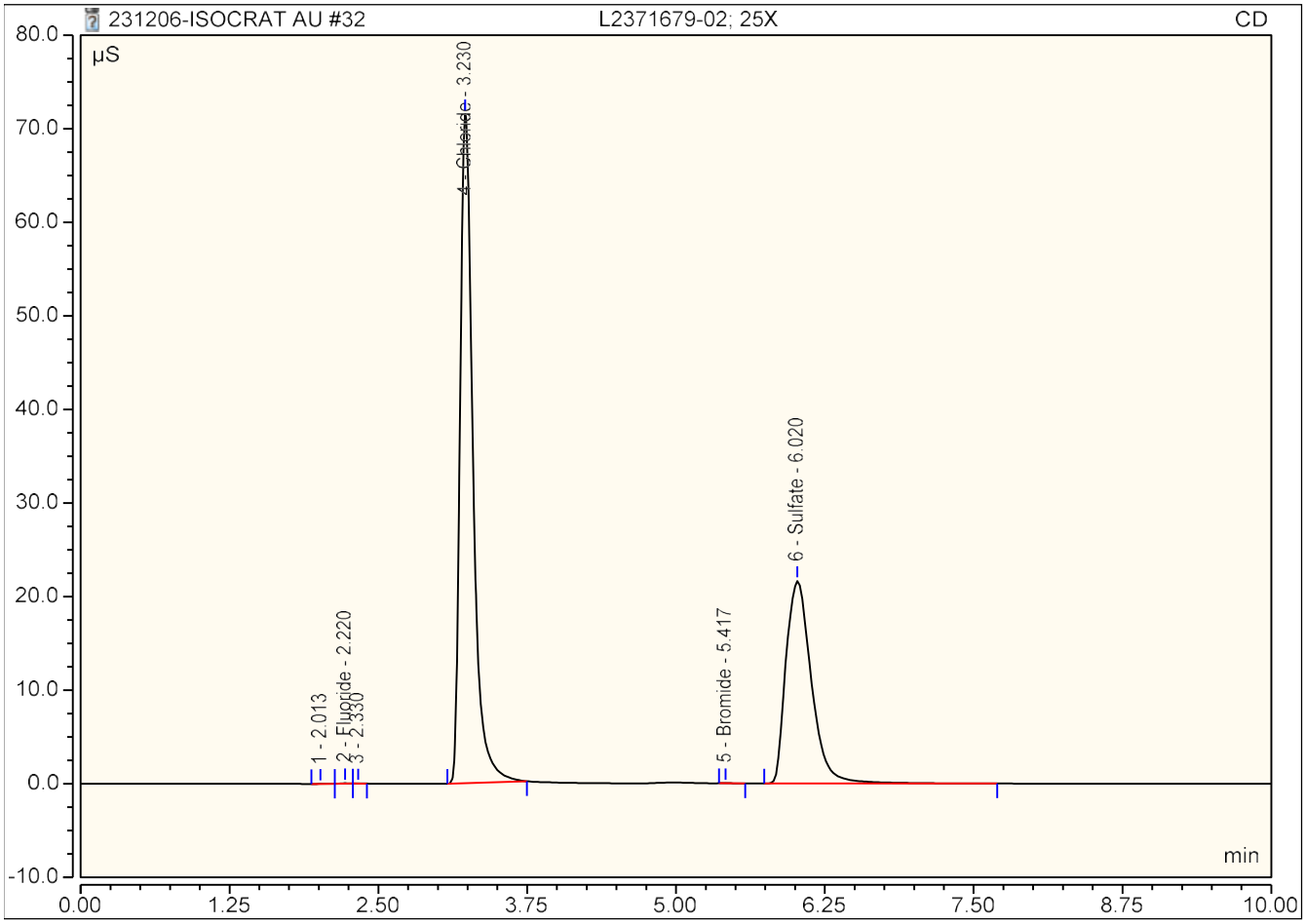
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.002	0.012	1.2475
3	3.23	**Chloride**	BMB	9.457	74.321	524.1456
4	5.41	**Bromide**	BMB	0.001	0.011	1.6338
5	6.01	**Sulfate**	BMB*	6.352	25.418	512.1566
TOTAL:				15.81	99.76	1039.18



Peak Integration Report

Sample Name:	**L2371679-02; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 21:07**	*Run Time:*	**10.00**

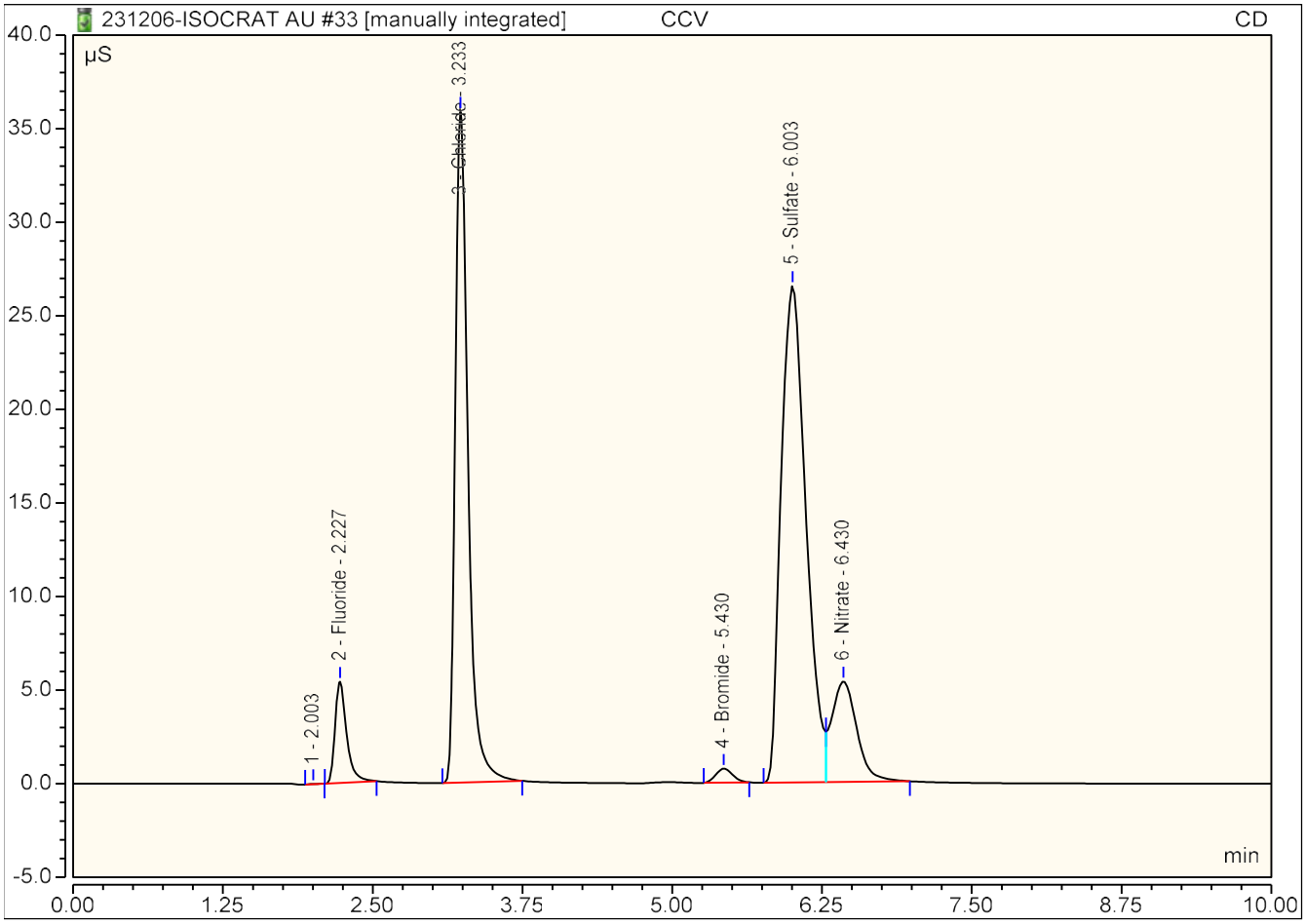
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.002	0.029	1.2784
4	3.23	**Chloride**	BMB	9.012	71.491	499.6993
5	5.42	**Bromide**	BMB	0.001	0.009	1.5814
6	6.02	**Sulfate**	BMB	5.376	21.636	434.5168
TOTAL:				14.39	93.16	937.08



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 21:19**	*Run Time:*	**10.00**

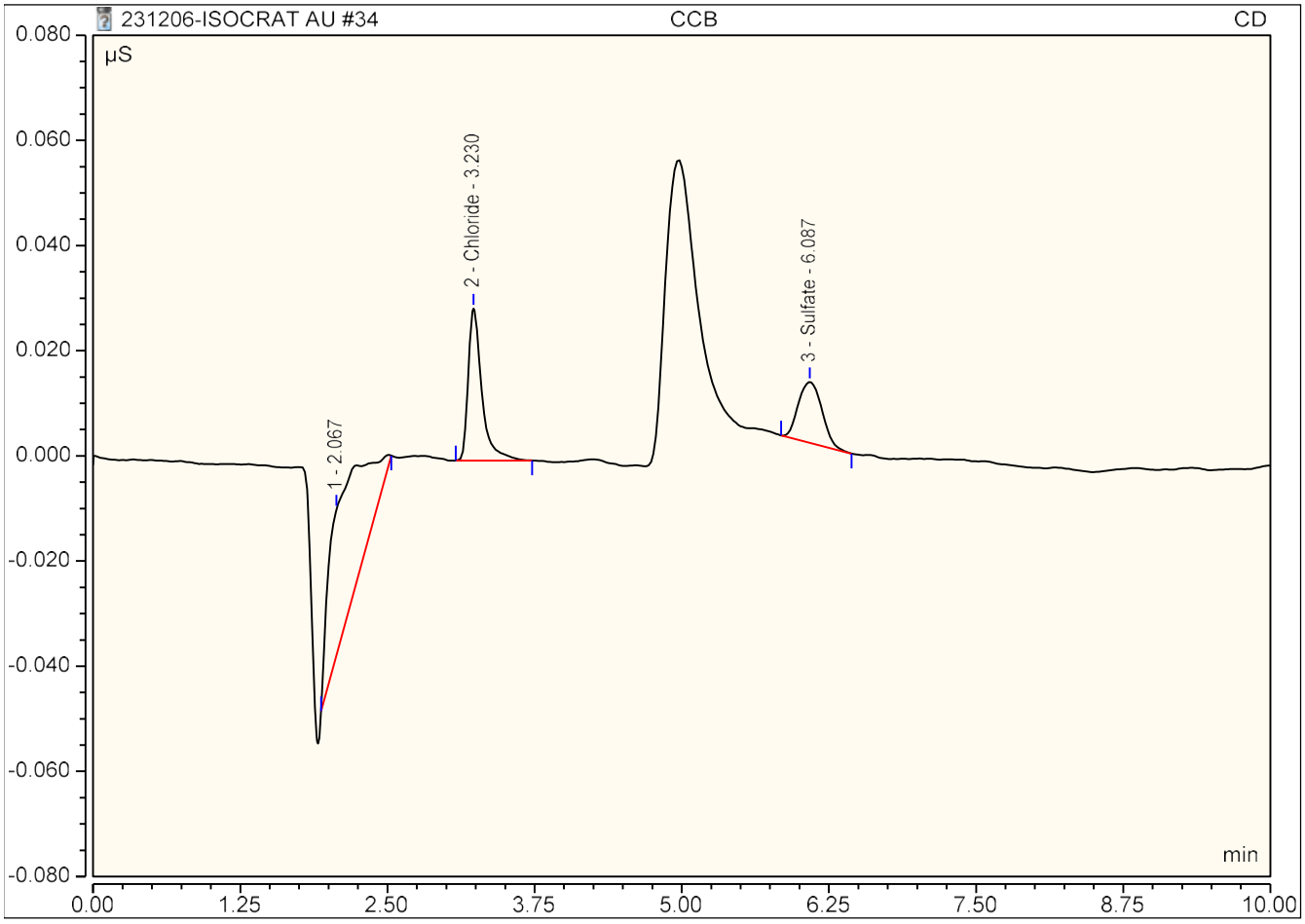
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.606	5.412	1.0087
3	3.23	**Chloride**	BMB	4.464	35.851	9.9922
4	5.43	**Bromide**	BMB*	0.121	0.747	0.9727
5	6.00	**Sulfate**	BM *	6.377	26.533	20.5643
6	6.43	**Nitrate**	MB*	1.305	5.376	0.9830
TOTAL:				12.87	73.92	33.52



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 21:31**	*Run Time:*	**10.00**

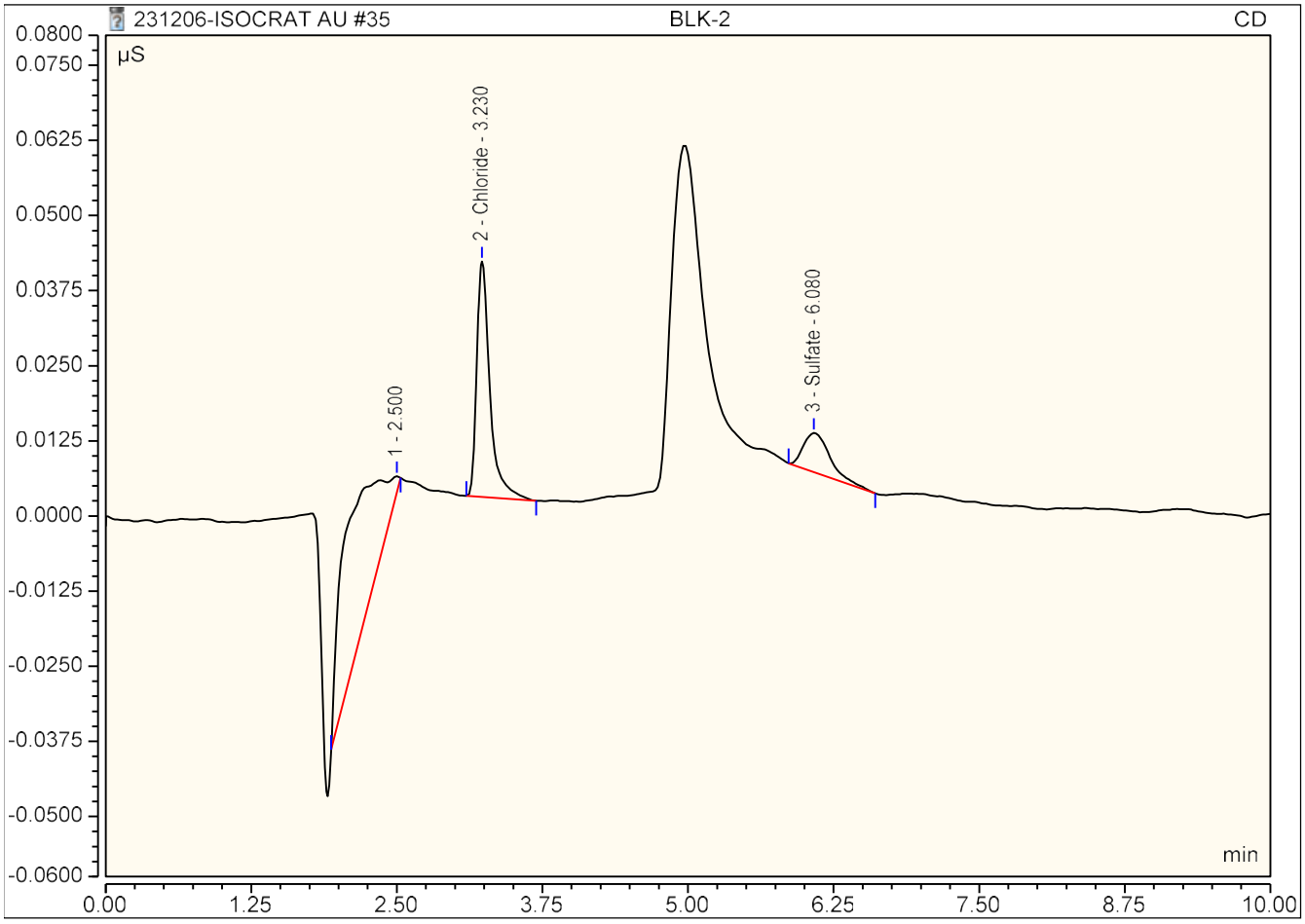
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.23	**Chloride**	BMB	0.004	0.029	0.1877
3	6.09	**Sulfate**	BMB	0.003	0.012	0.2971
TOTAL:				0.01	0.04	0.48



Peak Integration Report

Sample Name:	**BLK-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 21:43**	*Run Time:*	**10.00**

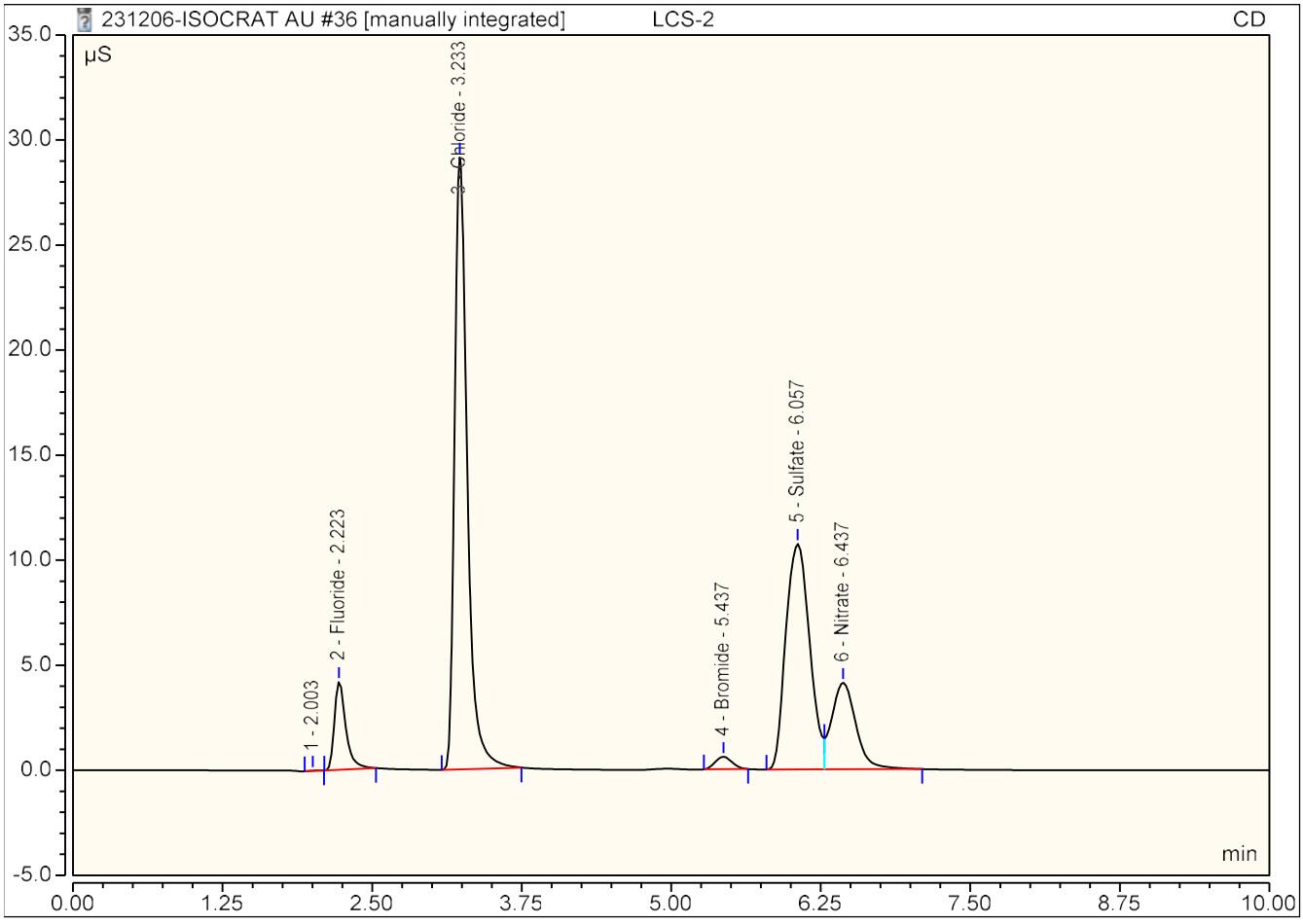
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.23	**Chloride**	BMB	0.005	0.039	0.1904
3	6.08	**Sulfate**	BMB	0.002	0.006	0.2941
TOTAL:				0.01	0.05	0.48



Peak Integration Report

Sample Name:	**LCS-2**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 21:55**	*Run Time:*	**10.00**

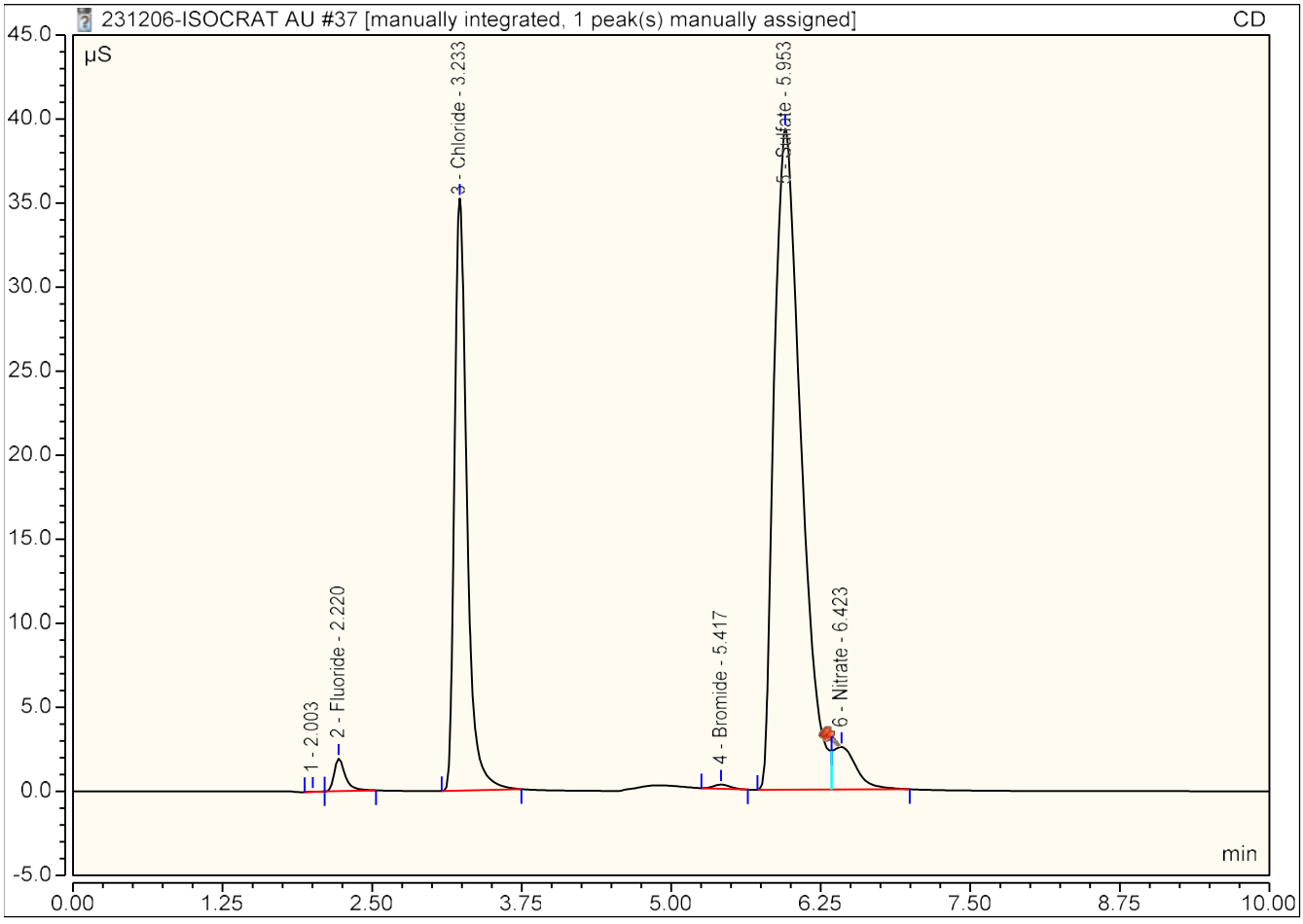
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.464	4.188	0.7836
3	3.23	**Chloride**	BMB	3.614	29.130	8.1236
4	5.44	**Bromide**	BMB*	0.097	0.594	0.7888
5	6.06	**Sulfate**	BM *	2.479	10.740	8.1699
6	6.44	**Nitrate**	MB*	0.969	4.123	0.7525
TOTAL:				7.62	48.78	18.62



Peak Integration Report

Sample Name:	**L2371776-01 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 22:07**	*Run Time:*	**10.00**

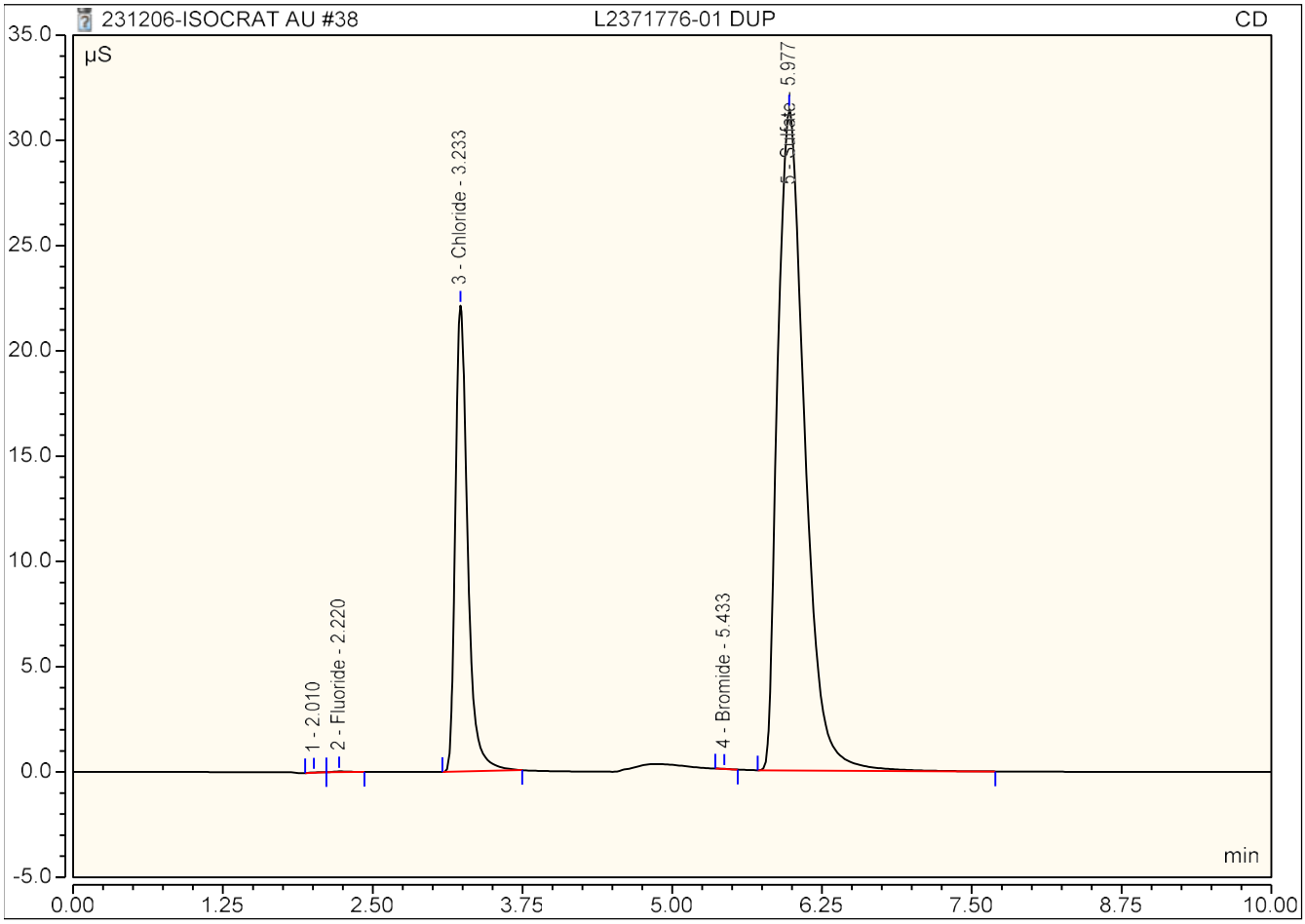
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.211	1.934	0.3816
3	3.23	**Chloride**	BMB	4.298	35.227	9.6267
4	5.42	**Bromide**	BMB*	0.040	0.243	0.3585
5	5.95	**Sulfate**	BM *	10.232	39.325	32.8222
6	6.42	**Nitrate**	MB*^	0.578	2.529	0.4835
TOTAL:				15.36	79.26	43.67



Peak Integration Report

Sample Name:	**L2371776-01 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 22:19**	*Run Time:*	**10.00**

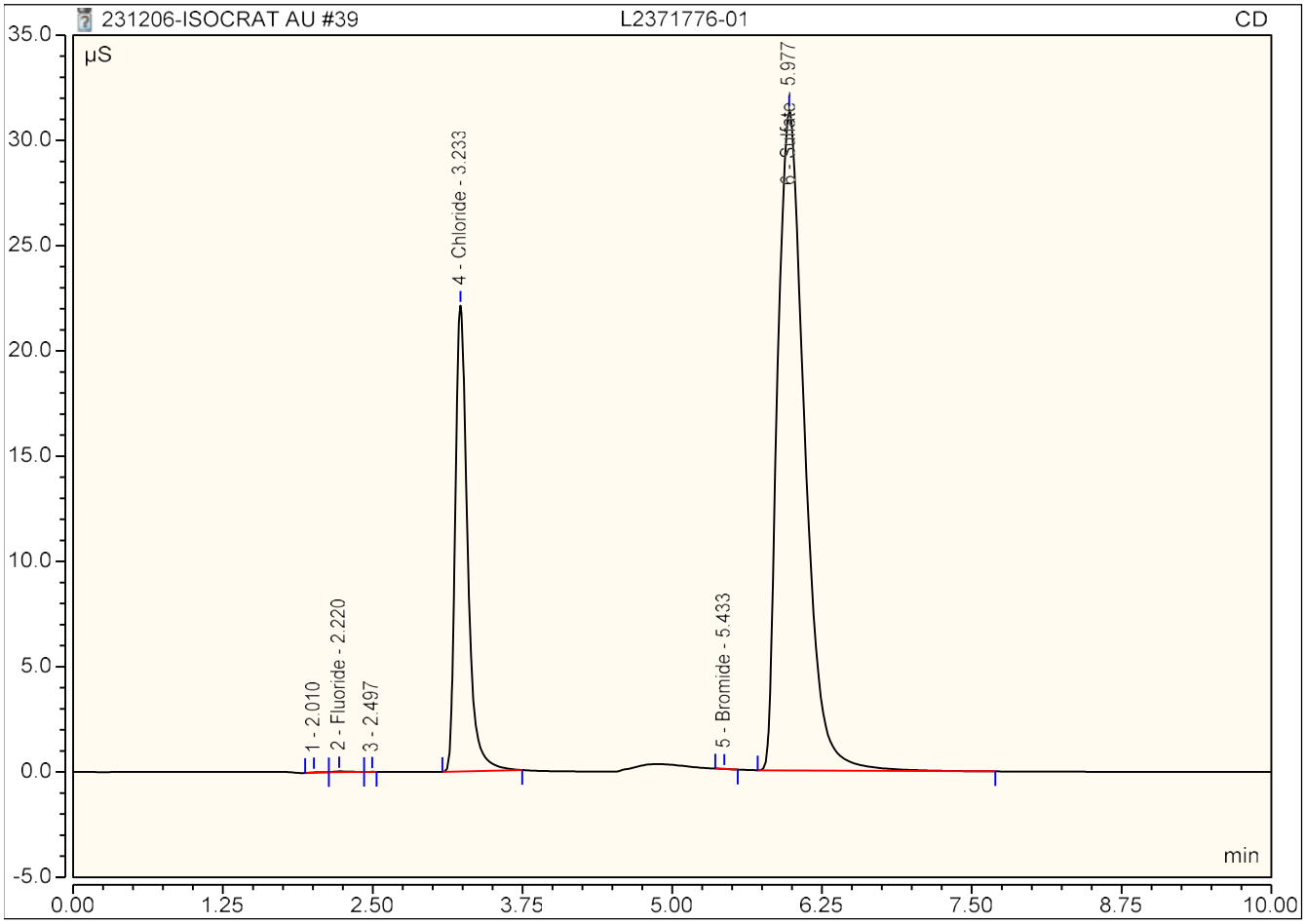
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.005	0.034	0.0549
3	3.23	**Chloride**	BMB	2.664	22.136	6.0345
4	5.43	**Bromide**	BMB	0.001	0.005	0.0582
5	5.98	**Sulfate**	BMB	8.183	31.394	26.3056
TOTAL:				10.85	53.57	32.45



Peak Integration Report

Sample Name:	**L2371776-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 22:31**	*Run Time:*	**10.00**

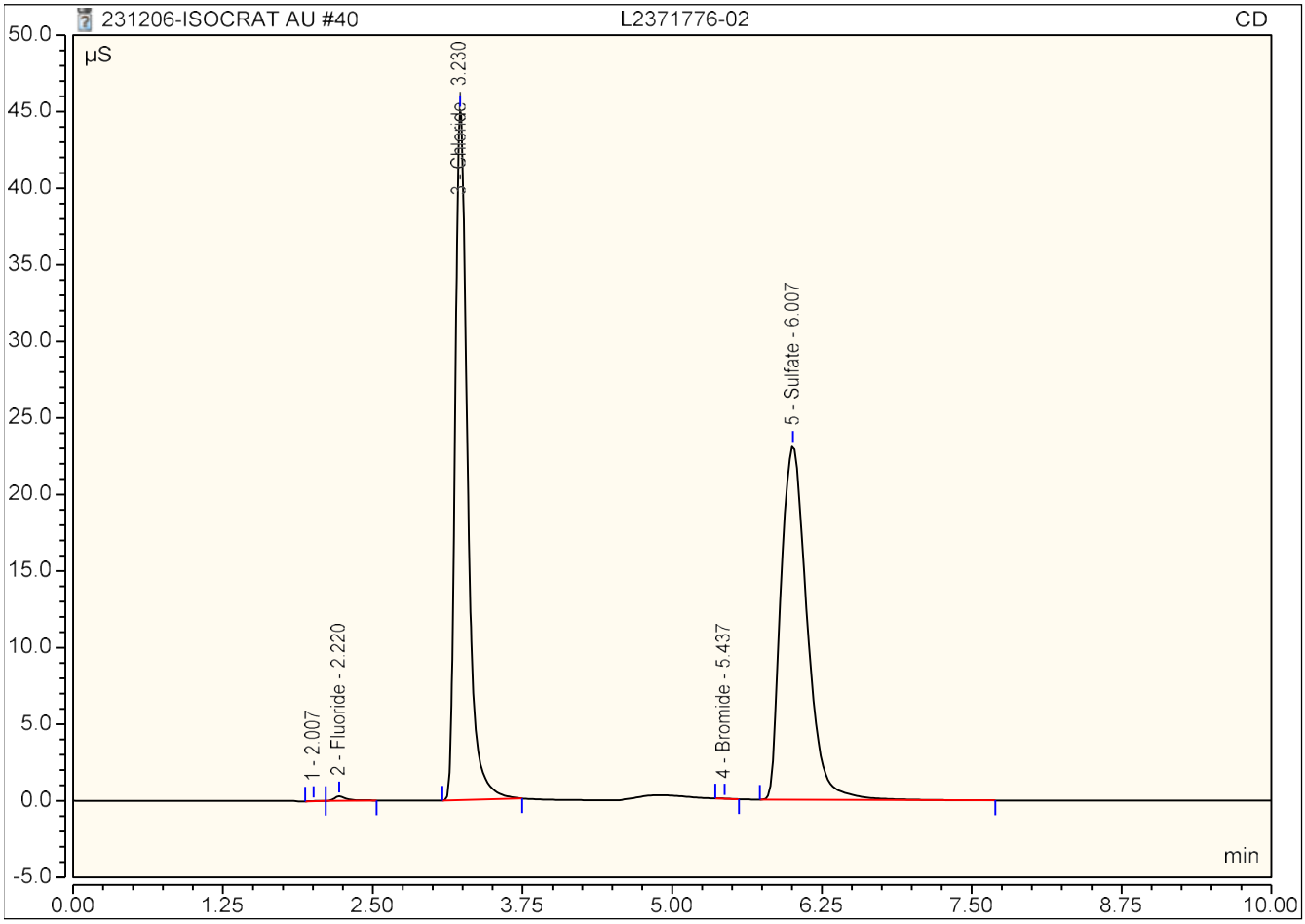
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.004	0.031	0.0541
4	3.23	**Chloride**	BMB	2.658	22.125	6.0211
5	5.43	**Bromide**	BMB	0.001	0.005	0.0581
6	5.98	**Sulfate**	BMB	8.156	31.370	26.2228
TOTAL:				10.82	53.53	32.36



Peak Integration Report

Sample Name:	**L2371776-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 22:43**	*Run Time:*	**10.00**

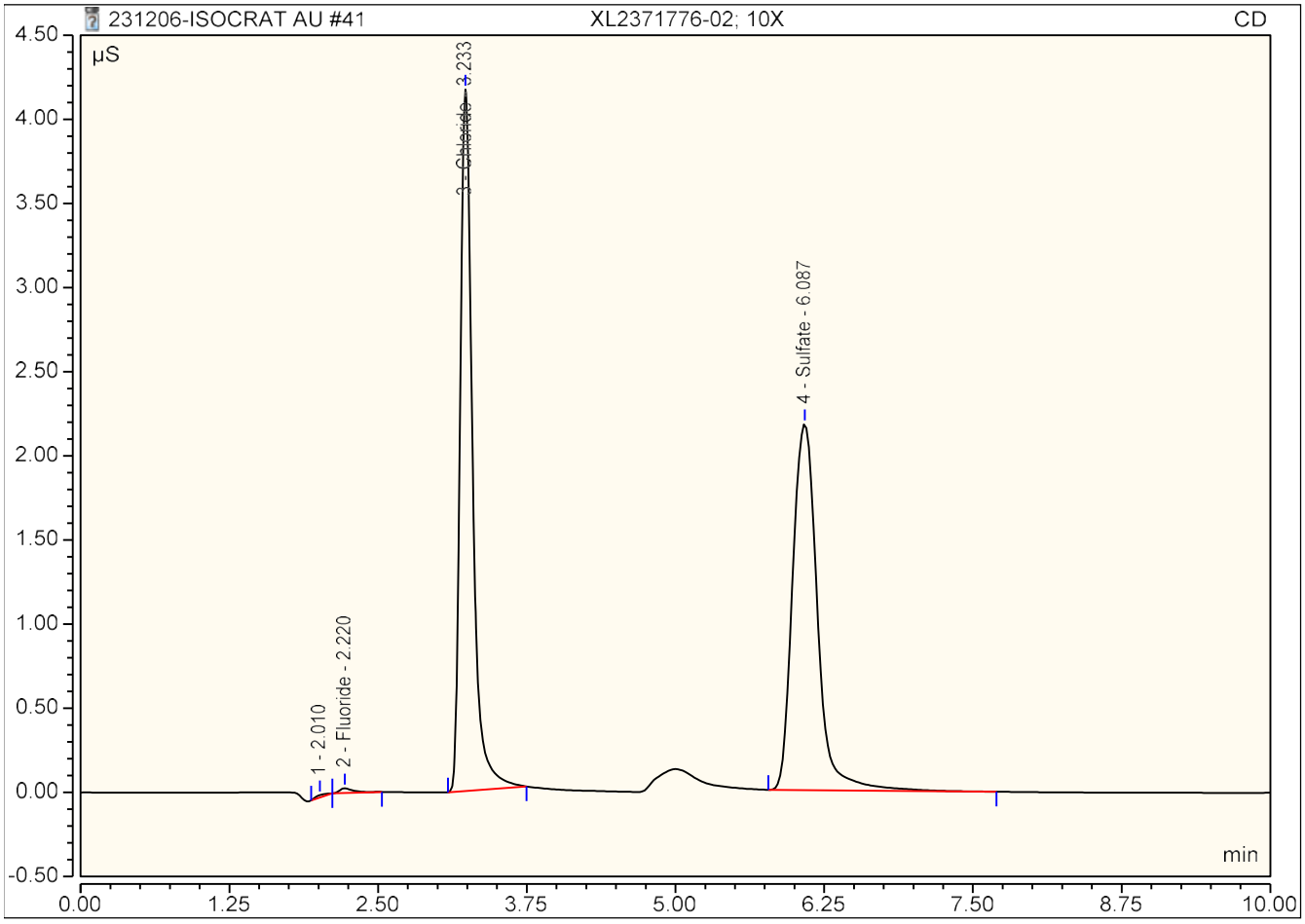
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.034	0.295	0.1016
3	3.23	**Chloride**	BMB	5.443	45.058	12.1423
4	5.44	**Bromide**	BMB	0.001	0.007	0.0597
5	6.01	**Sulfate**	BMB	5.845	23.122	18.8745
TOTAL:				11.32	68.48	31.18



Peak Integration Report

Sample Name:	**XL2371776-02; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 22:55**	*Run Time:*	**10.00**

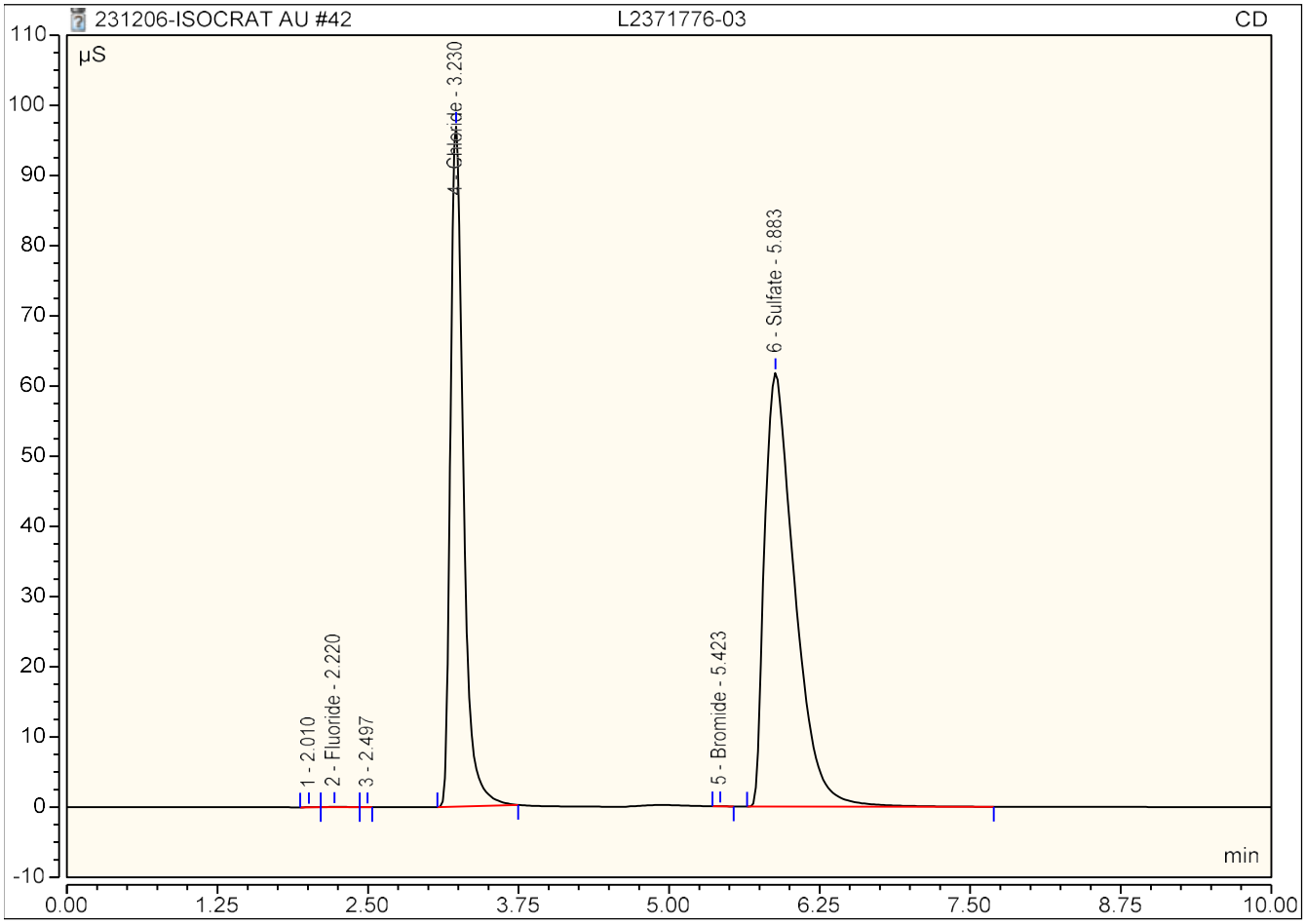
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.004	0.028	0.5346
3	3.23	**Chloride**	BMB	0.503	4.170	12.8376
4	6.09	**Sulfate**	BMB	0.527	2.176	19.6285
TOTAL:				1.03	6.37	33.00



Peak Integration Report

Sample Name:	**L2371776-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 23:07**	*Run Time:*	**10.00**

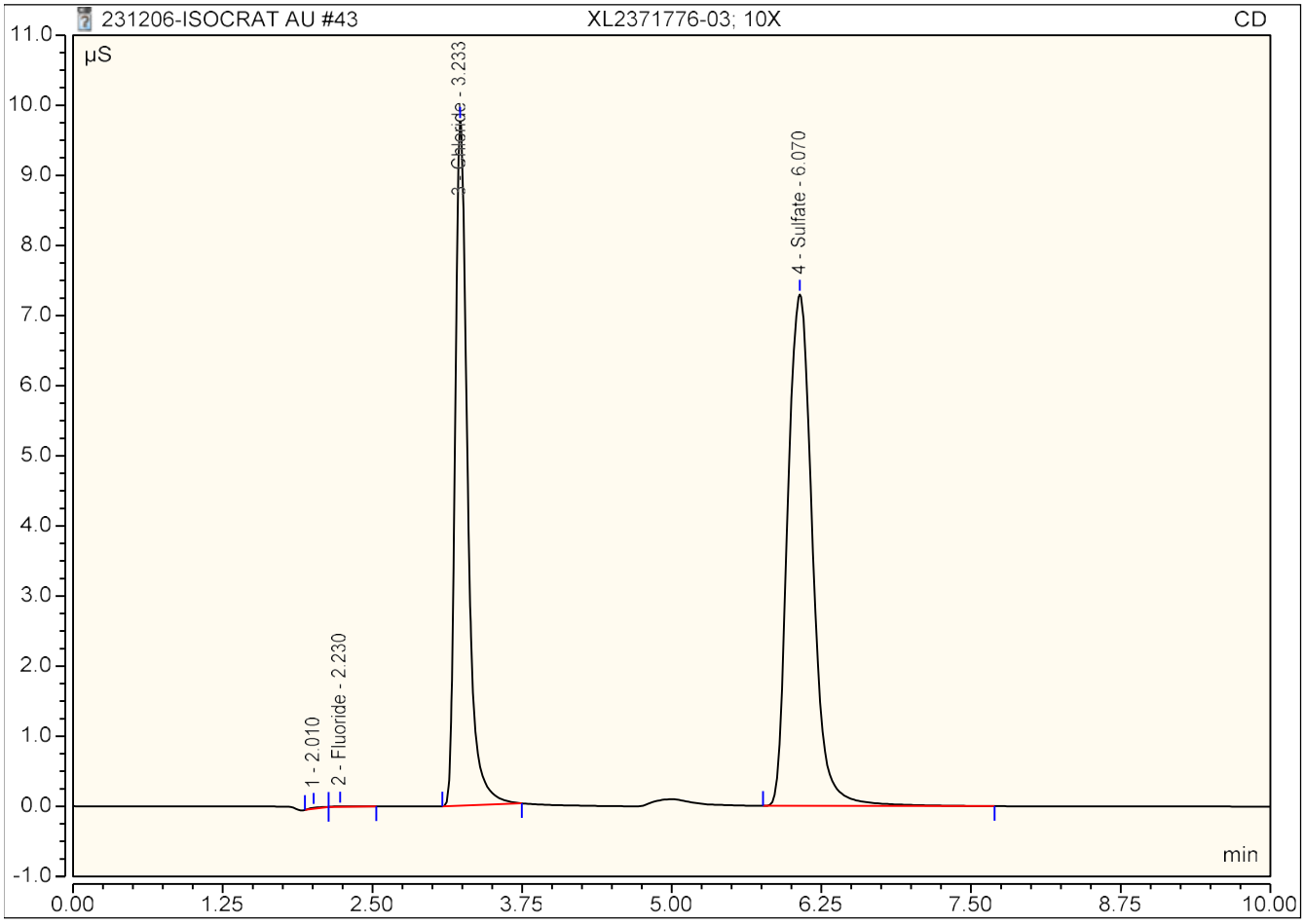
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.006	0.049	0.0572
4	3.23	**Chloride**	BMB	12.058	96.864	26.6825
5	5.42	**Bromide**	BMB	0.001	0.007	0.0594
6	5.88	**Sulfate**	BMB	17.892	61.789	57.1767
TOTAL:				29.96	158.71	83.98



Peak Integration Report

Sample Name:	**XL2371776-03; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 23:20**	*Run Time:*	**10.00**

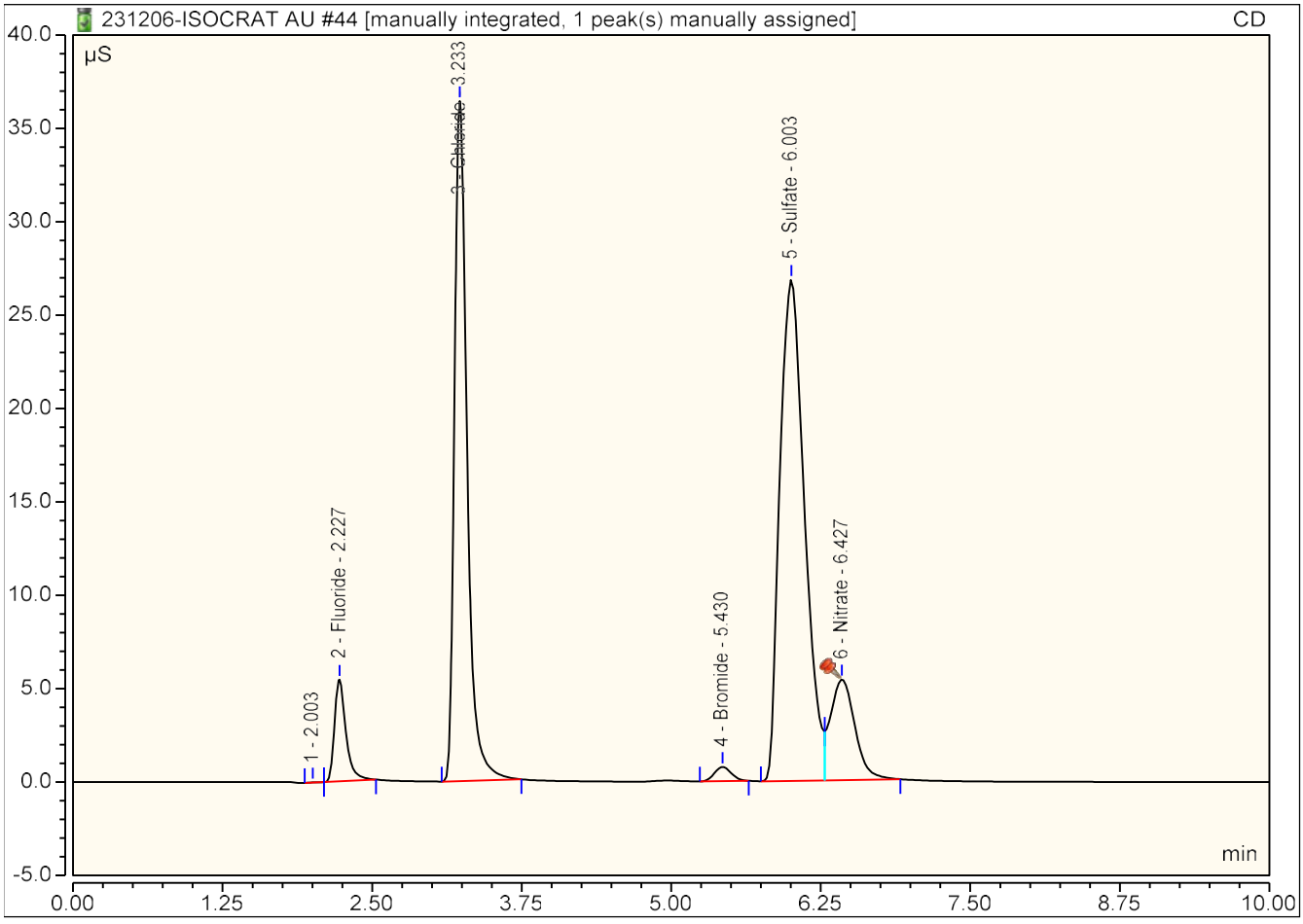
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.001	0.006	0.4921
3	3.23	**Chloride**	BMB	1.187	9.757	27.8717
4	6.07	**Sulfate**	BMB	1.749	7.294	58.5094
TOTAL:				2.94	17.06	86.87



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 23:32**	*Run Time:*	**10.00**

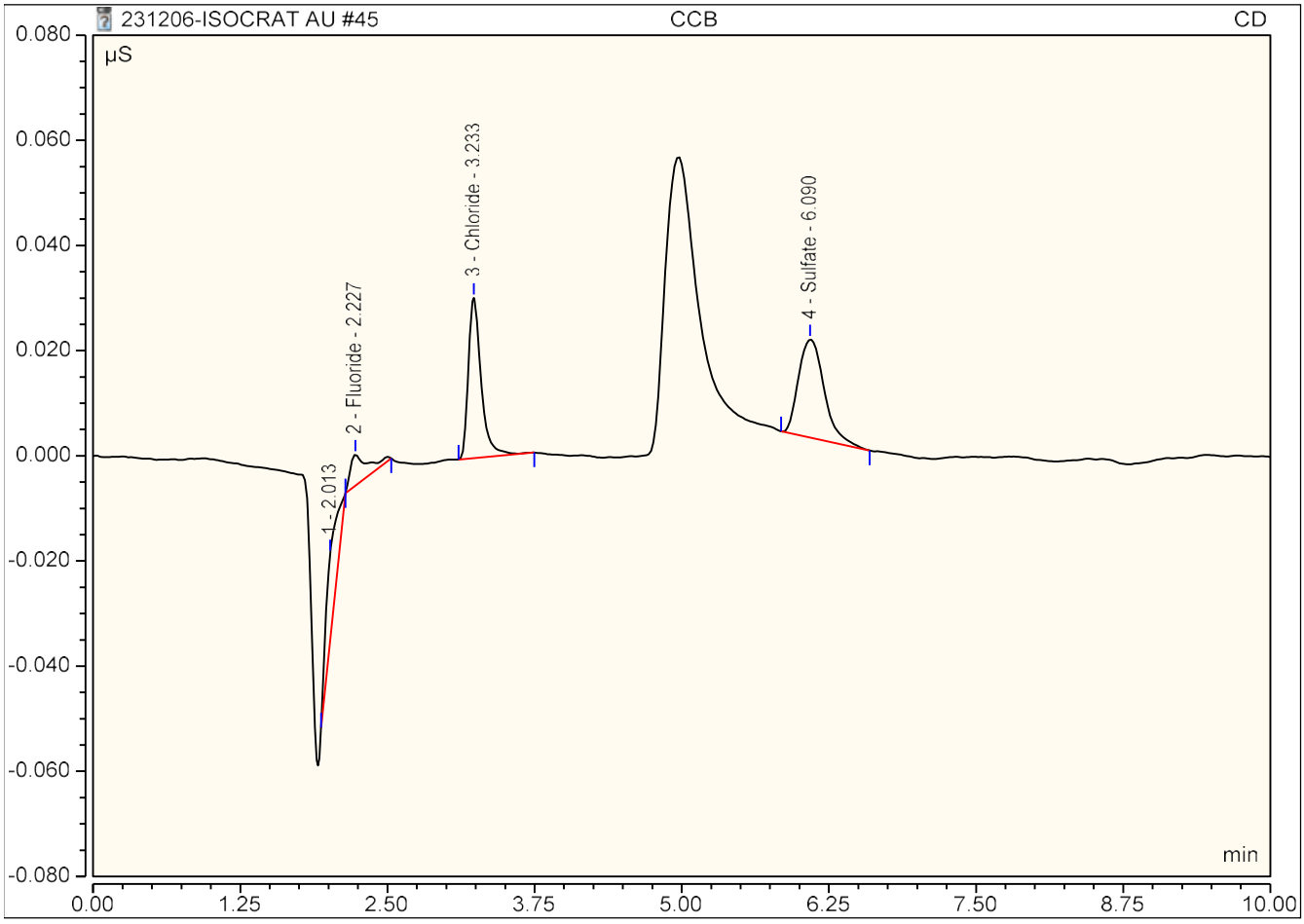
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.605	5.452	1.0064
3	3.23	**Chloride**	BMB	4.472	36.411	10.0092
4	5.43	**Bromide**	BMB*	0.124	0.761	0.9932
5	6.00	**Sulfate**	BM *	6.414	26.829	20.6839
6	6.43	**Nitrate**	MB*^	1.279	5.401	0.9652
TOTAL:				12.89	74.85	33.66



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 23:44**	*Run Time:*	**10.00**

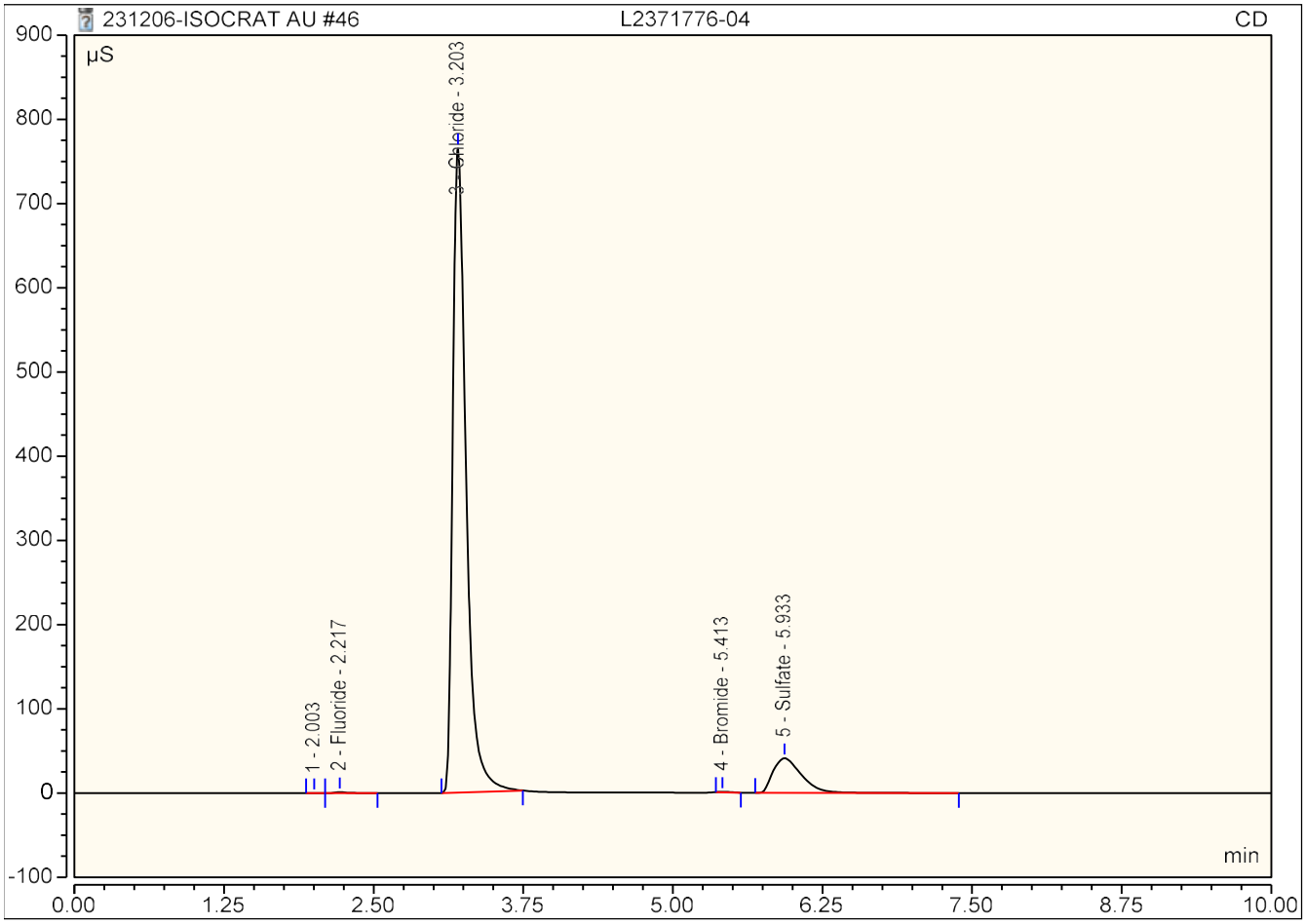
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.001	0.006	0.0490
3	3.23	**Chloride**	BMB	0.004	0.030	0.1876
4	6.09	**Sulfate**	BMB	0.005	0.019	0.3036
TOTAL:				0.01	0.06	0.54



Peak Integration Report

Sample Name:	**L2371776-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**06-Dec-2023 / 23:56**	*Run Time:*	**10.00**

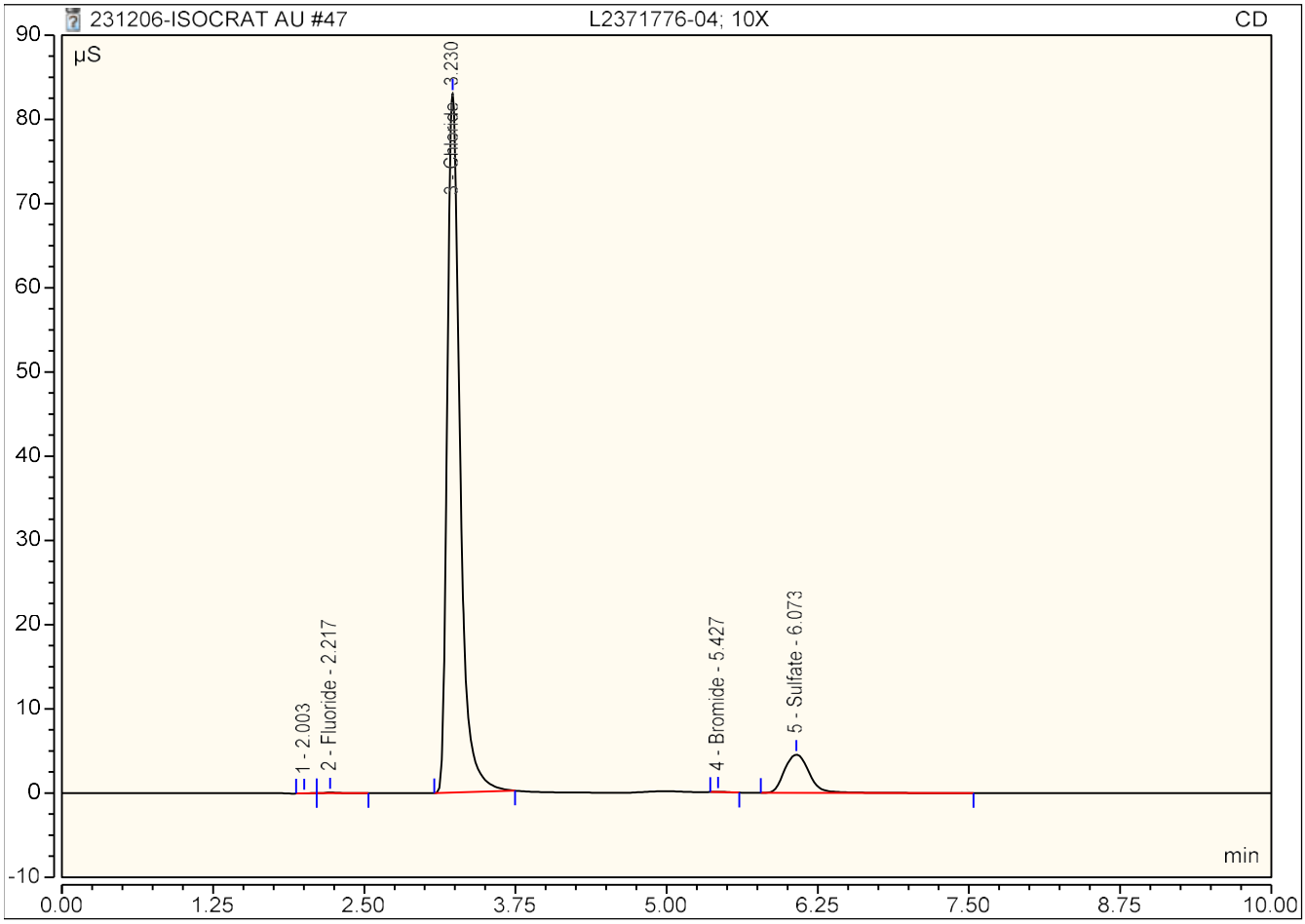
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.136	1.165	0.2623
3	3.20	**Chloride**	BMB	99.194	765.063	218.2100
4	5.41	**Bromide**	BMB	0.060	0.528	0.5070
5	5.93	**Sulfate**	BMB	11.390	41.365	36.5029
TOTAL:				110.78	808.12	255.48



Peak Integration Report

Sample Name:	**L2371776-04; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 00:08**	*Run Time:*	**10.00**

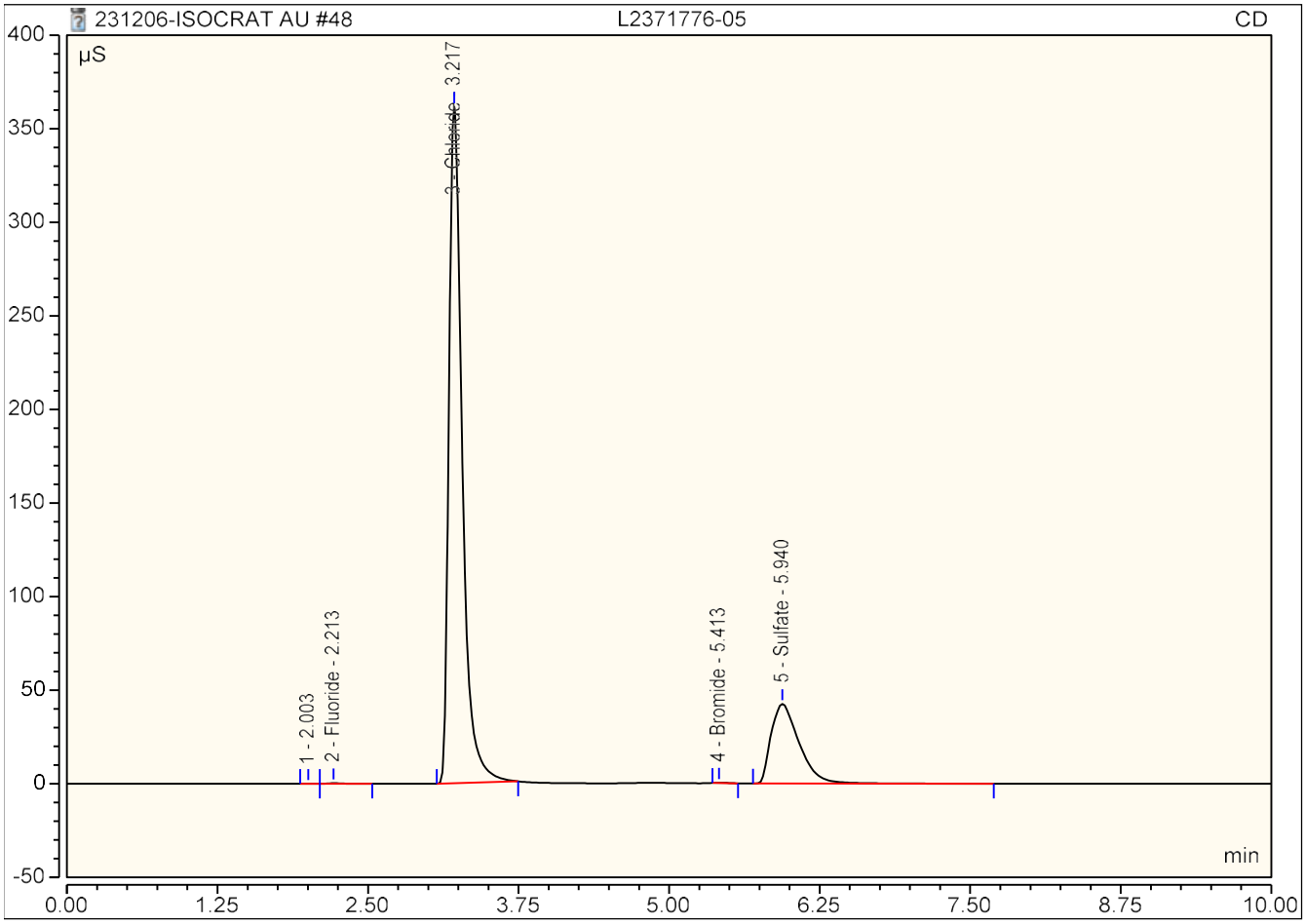
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.012	0.099	0.6602
3	3.23	**Chloride**	BMB	10.206	82.984	226.1246
4	5.43	**Bromide**	BMB	0.007	0.055	1.0775
5	6.07	**Sulfate**	BMB	1.080	4.543	37.2149
TOTAL:				11.30	87.68	265.08



Peak Integration Report

Sample Name:	**L2371776-05**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 00:20**	*Run Time:*	**10.00**

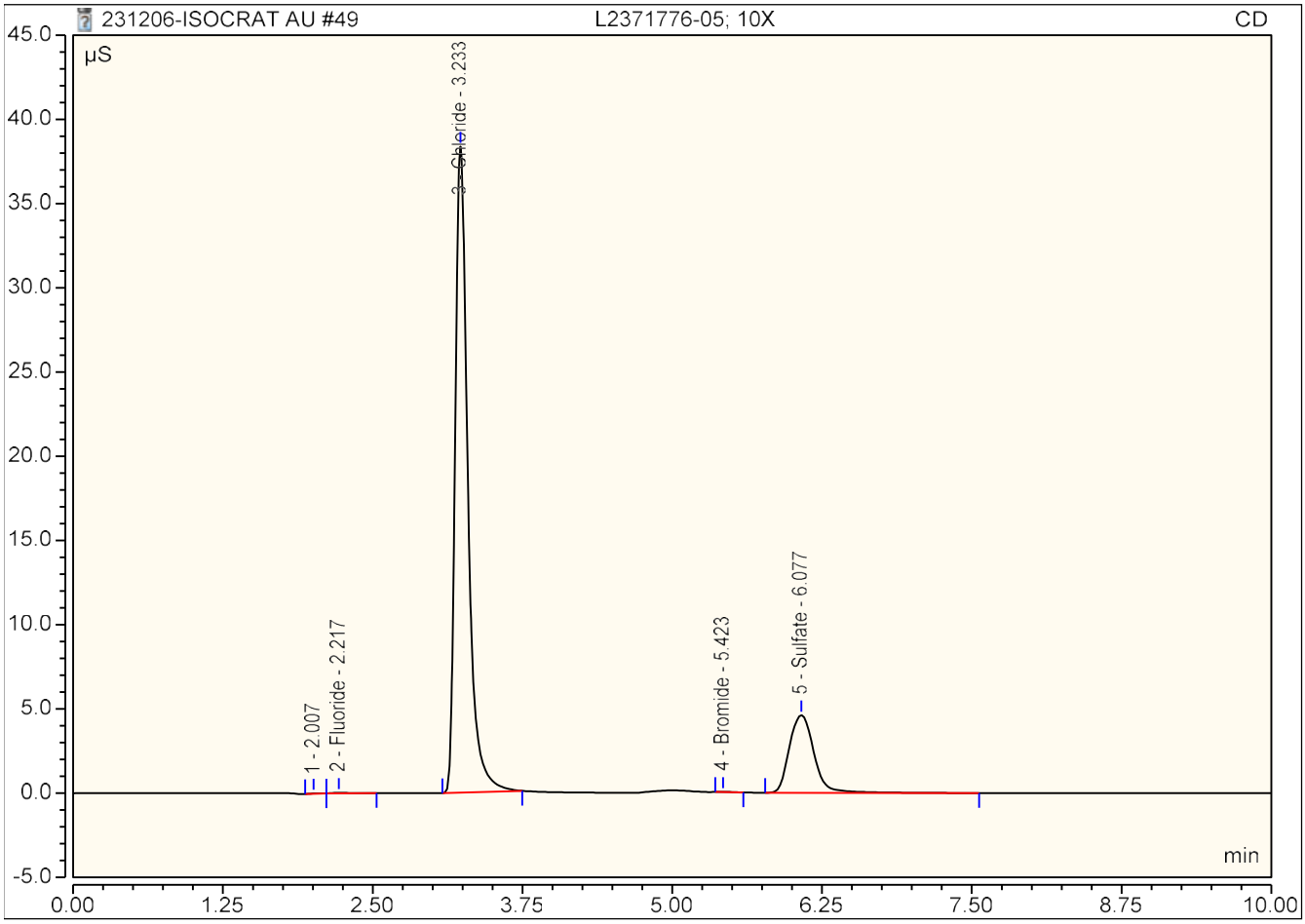
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.21	**Fluoride**	BMB	0.043	0.362	0.1160
3	3.22	**Chloride**	BMB	46.342	361.438	102.0398
4	5.41	**Bromide**	BMB	0.020	0.176	0.2088
5	5.94	**Sulfate**	BMB	11.494	42.608	36.8357
TOTAL:				57.90	404.58	139.20



Peak Integration Report

Sample Name:	**L2371776-05; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 00:32**	*Run Time:*	**10.00**

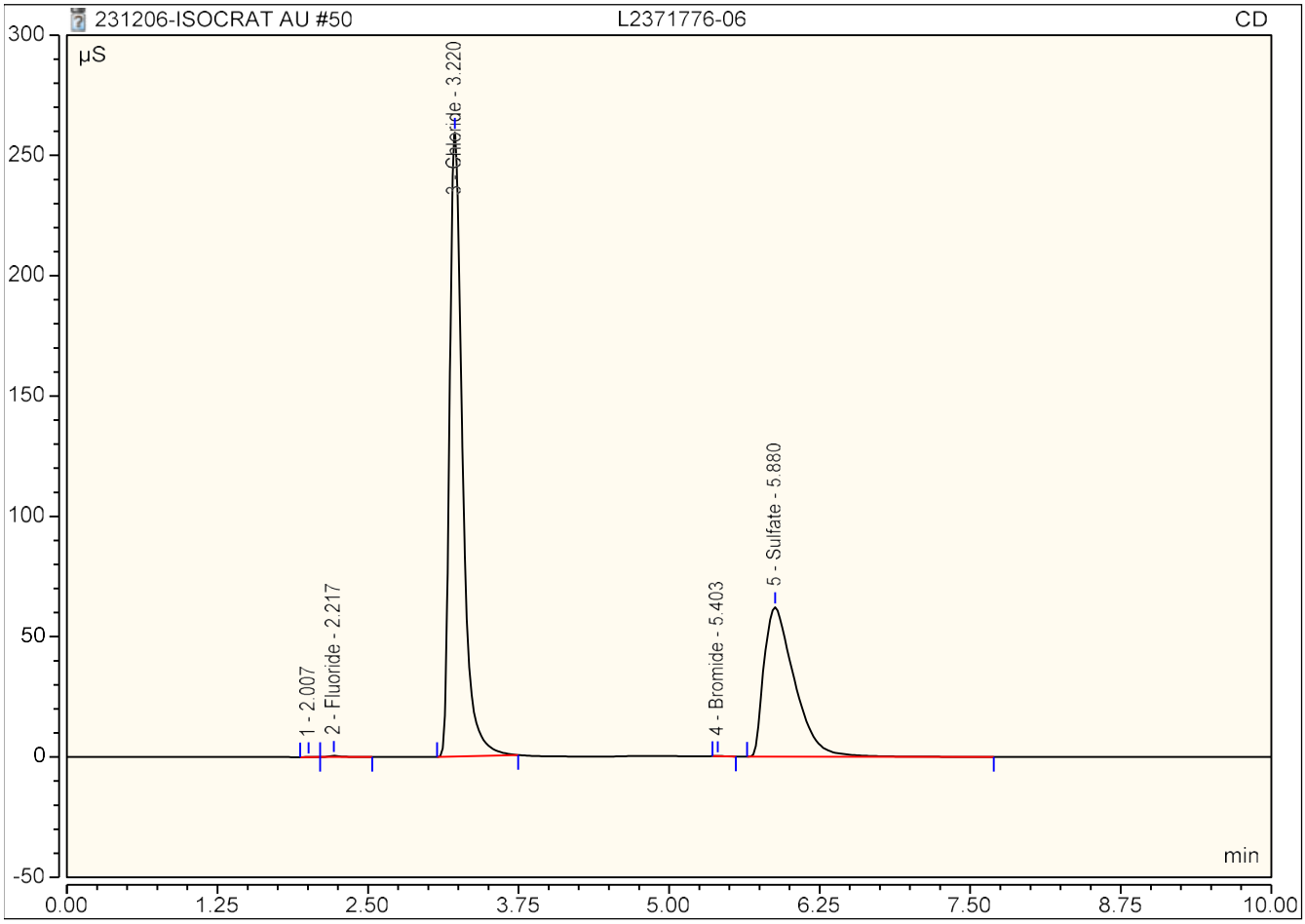
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.005	0.036	0.5490
3	3.23	**Chloride**	BMB	4.725	38.359	105.6368
4	5.42	**Bromide**	BMB	0.002	0.017	0.7142
5	6.08	**Sulfate**	BMB	1.100	4.603	37.8533
TOTAL:				5.83	43.02	144.75



Peak Integration Report

Sample Name:	**L2371776-06**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 00:44**	*Run Time:*	**10.00**

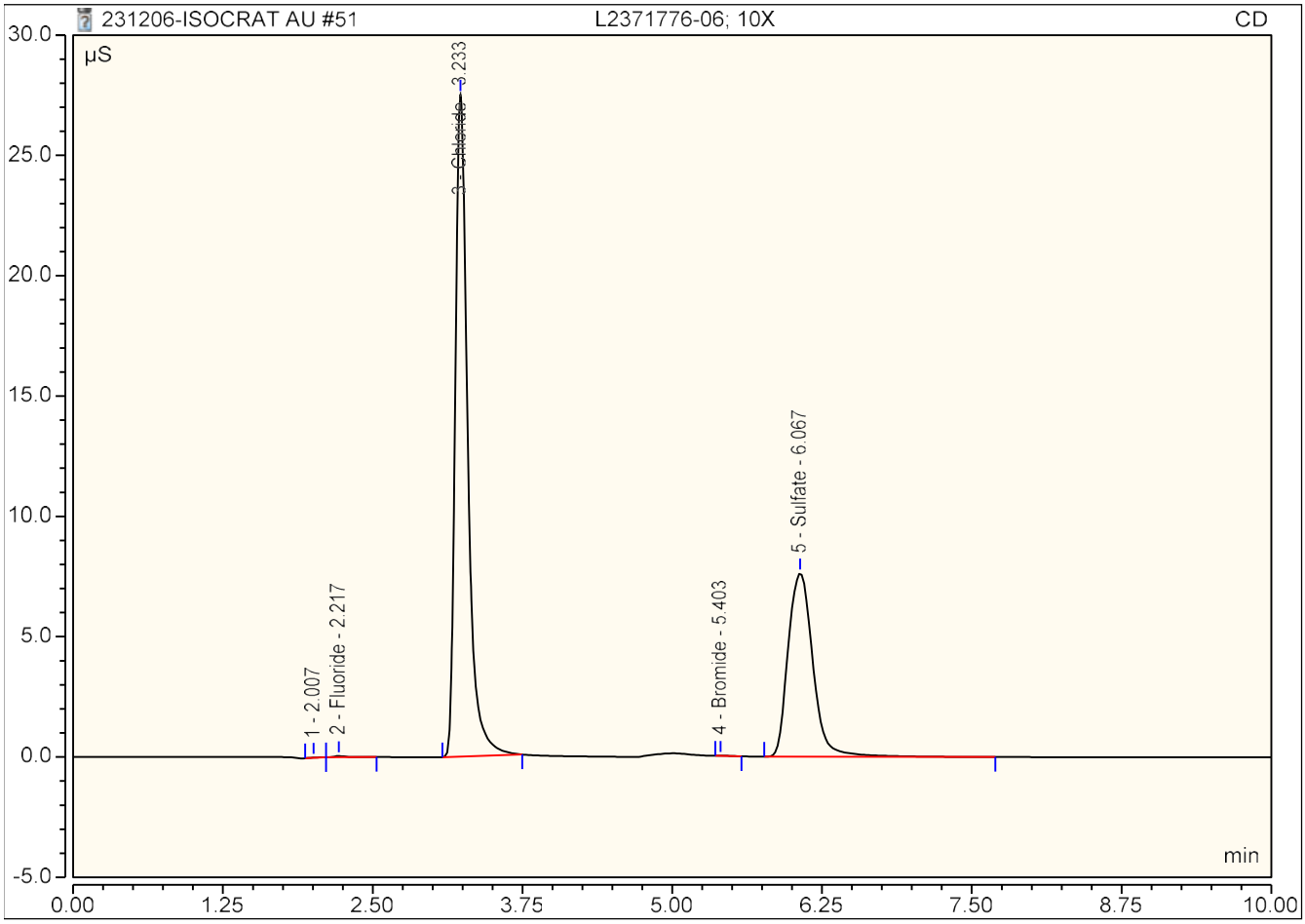
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.062	0.532	0.1455
3	3.22	**Chloride**	BMB	32.279	259.326	71.1292
4	5.40	**Bromide**	BMB	0.008	0.071	0.1154
5	5.88	**Sulfate**	BMB	18.216	62.173	58.2086
TOTAL:				50.57	322.10	129.60



Peak Integration Report

Sample Name:	**L2371776-06; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 00:56**	*Run Time:*	**10.00**

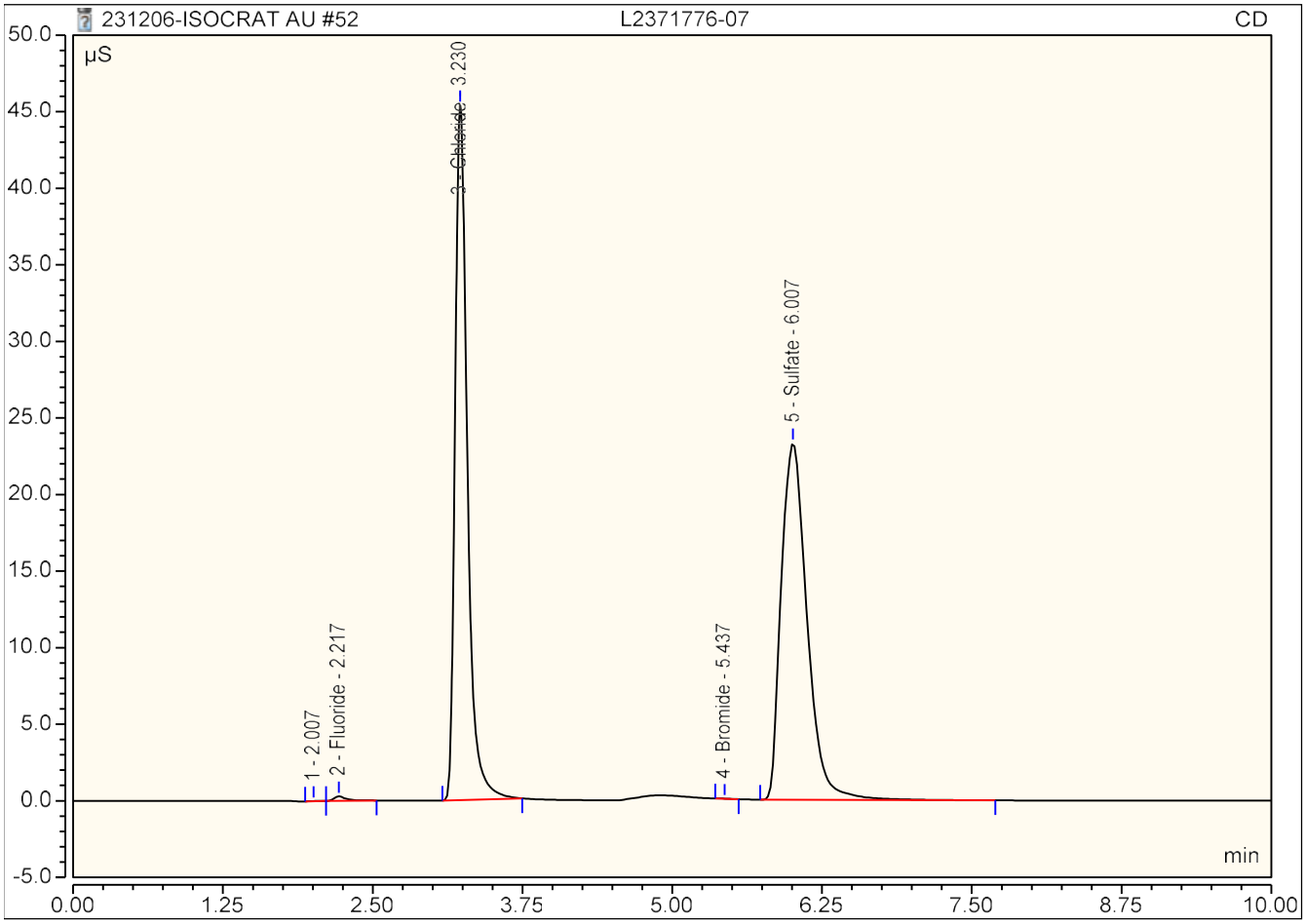
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.006	0.049	0.5730
3	3.23	**Chloride**	BMB	3.333	27.507	75.0523
4	5.40	**Bromide**	BMB	0.001	0.007	0.6230
5	6.07	**Sulfate**	BMB	1.831	7.621	61.1171
TOTAL:				5.17	35.18	137.37



Peak Integration Report

Sample Name:	**L2371776-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 01:08**	*Run Time:*	**10.00**

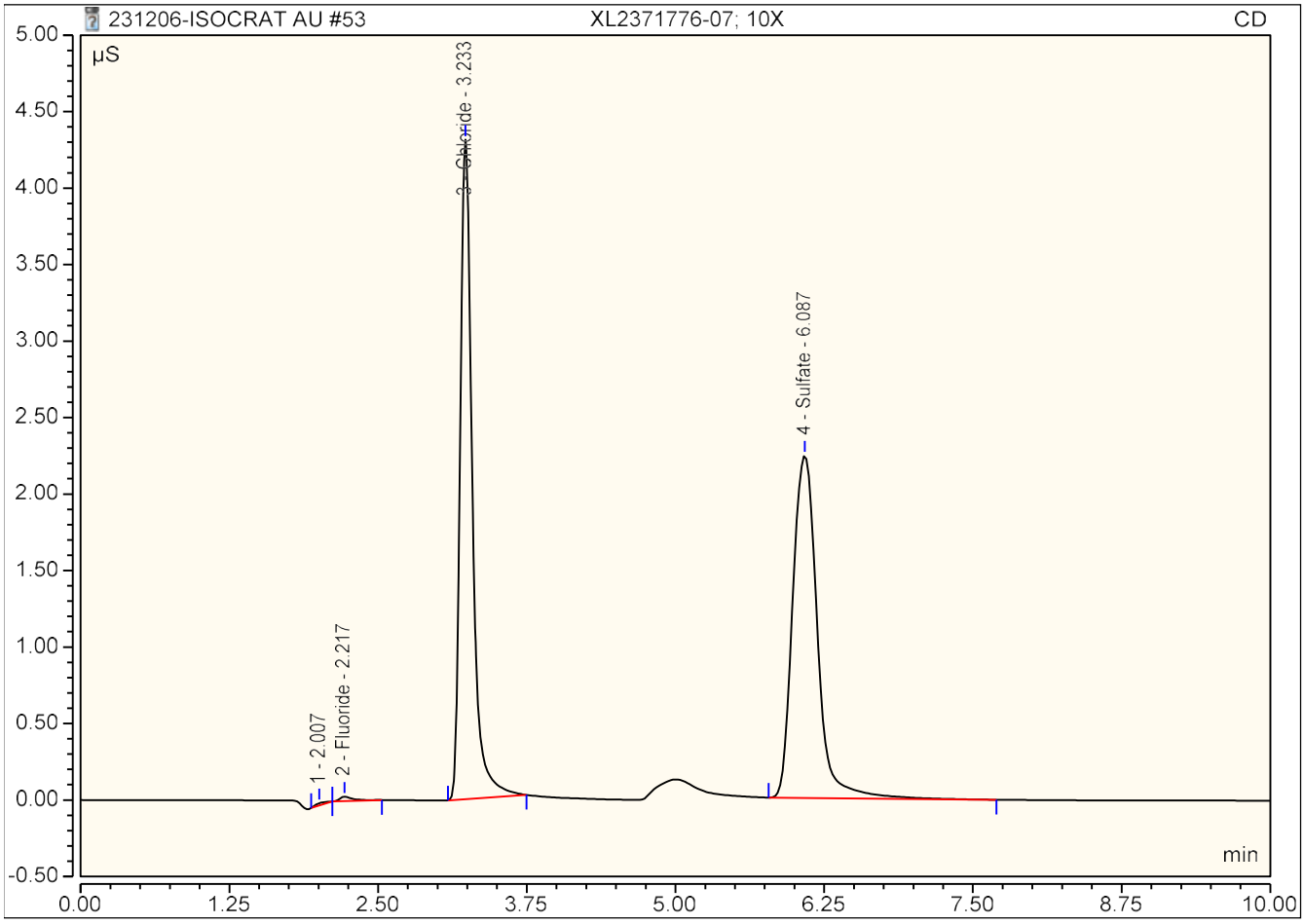
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.034	0.291	0.1008
3	3.23	**Chloride**	BMB	5.421	45.381	12.0942
4	5.44	**Bromide**	BMB	0.001	0.007	0.0598
5	6.01	**Sulfate**	BMB	5.827	23.285	18.8154
TOTAL:				11.28	68.96	31.07



Peak Integration Report

Sample Name:	**XL2371776-07; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 01:20**	*Run Time:*	**10.00**

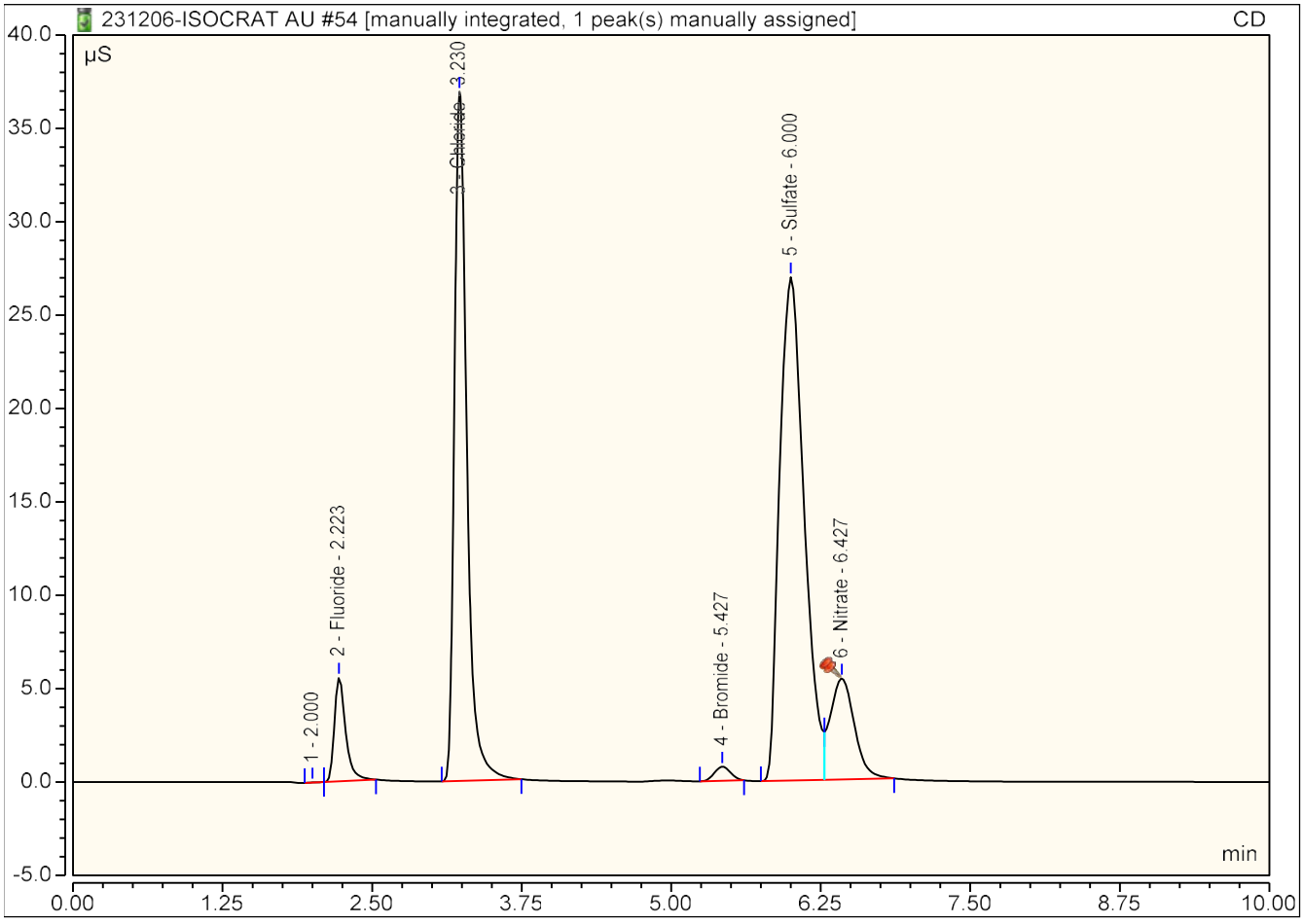
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.004	0.029	0.5344
3	3.23	**Chloride**	BMB	0.510	4.310	12.9911
4	6.09	**Sulfate**	BMB	0.538	2.239	19.9838
TOTAL:				1.05	6.58	33.51



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 01:32**	*Run Time:*	**10.00**

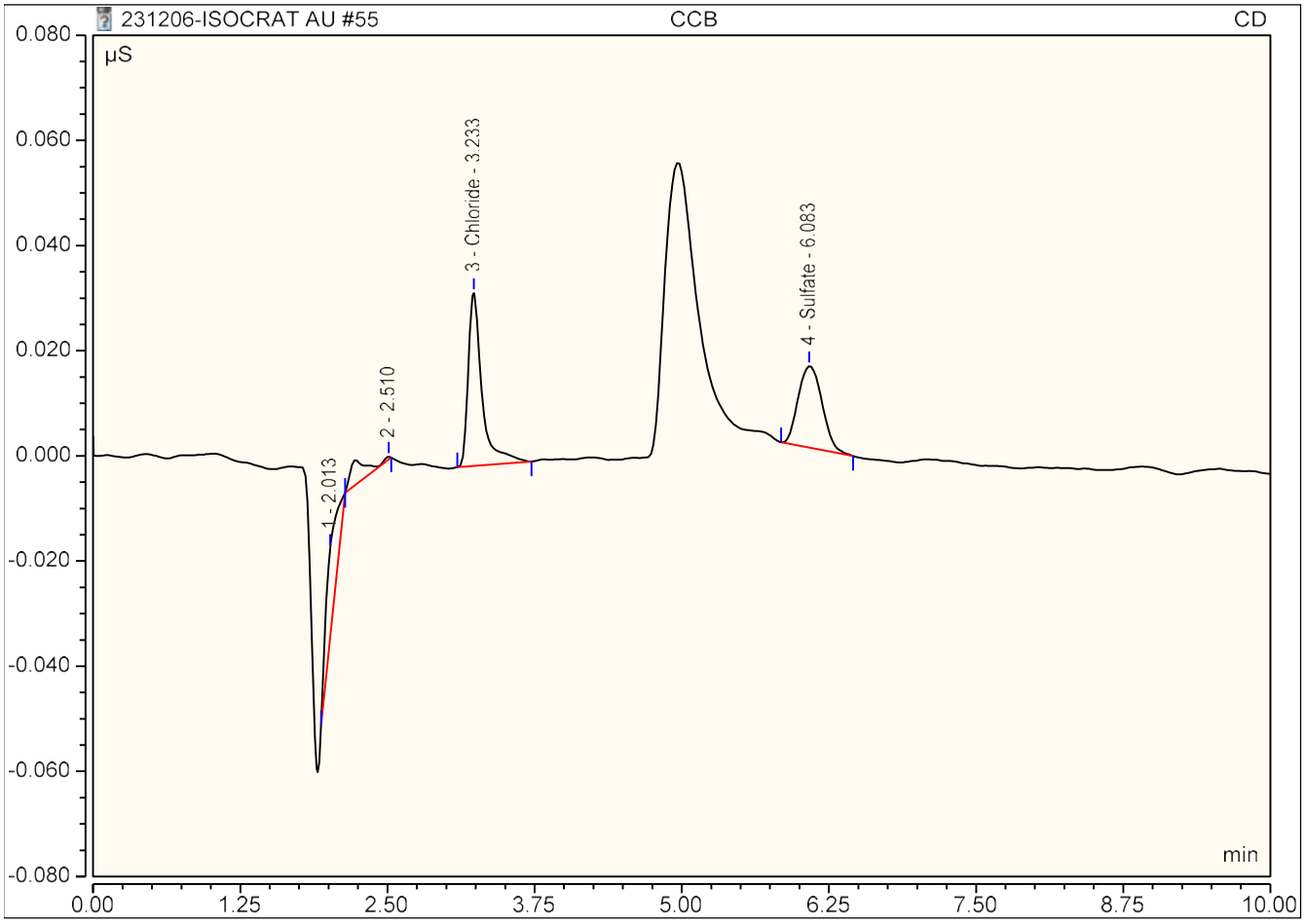
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.609	5.561	1.0129
3	3.23	**Chloride**	BMB	4.474	36.912	10.0135
4	5.43	**Bromide**	BMB*	0.120	0.762	0.9595
5	6.00	**Sulfate**	BM *	6.395	26.956	20.6219
6	6.43	**Nitrate**	MB*^	1.268	5.421	0.9574
TOTAL:				12.87	75.61	33.57



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 01:45**	*Run Time:*	**10.00**

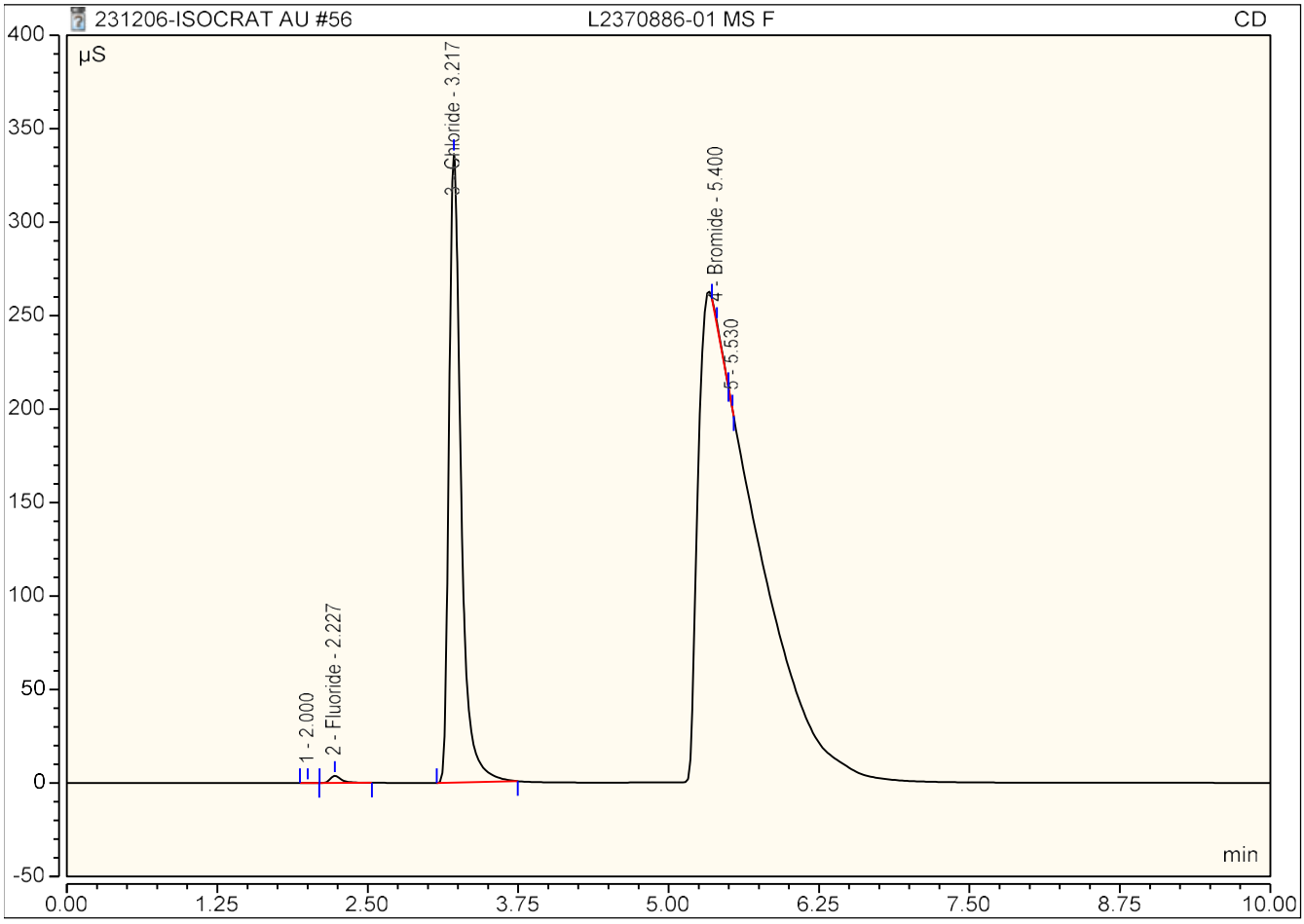
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.23	**Chloride**	BMB	0.004	0.033	0.1889
4	6.08	**Sulfate**	BMB	0.004	0.015	0.3001
TOTAL:				0.01	0.05	0.49



Peak Integration Report

Sample Name:	**L2370886-01 MS F**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 01:57**	*Run Time:*	**10.00**

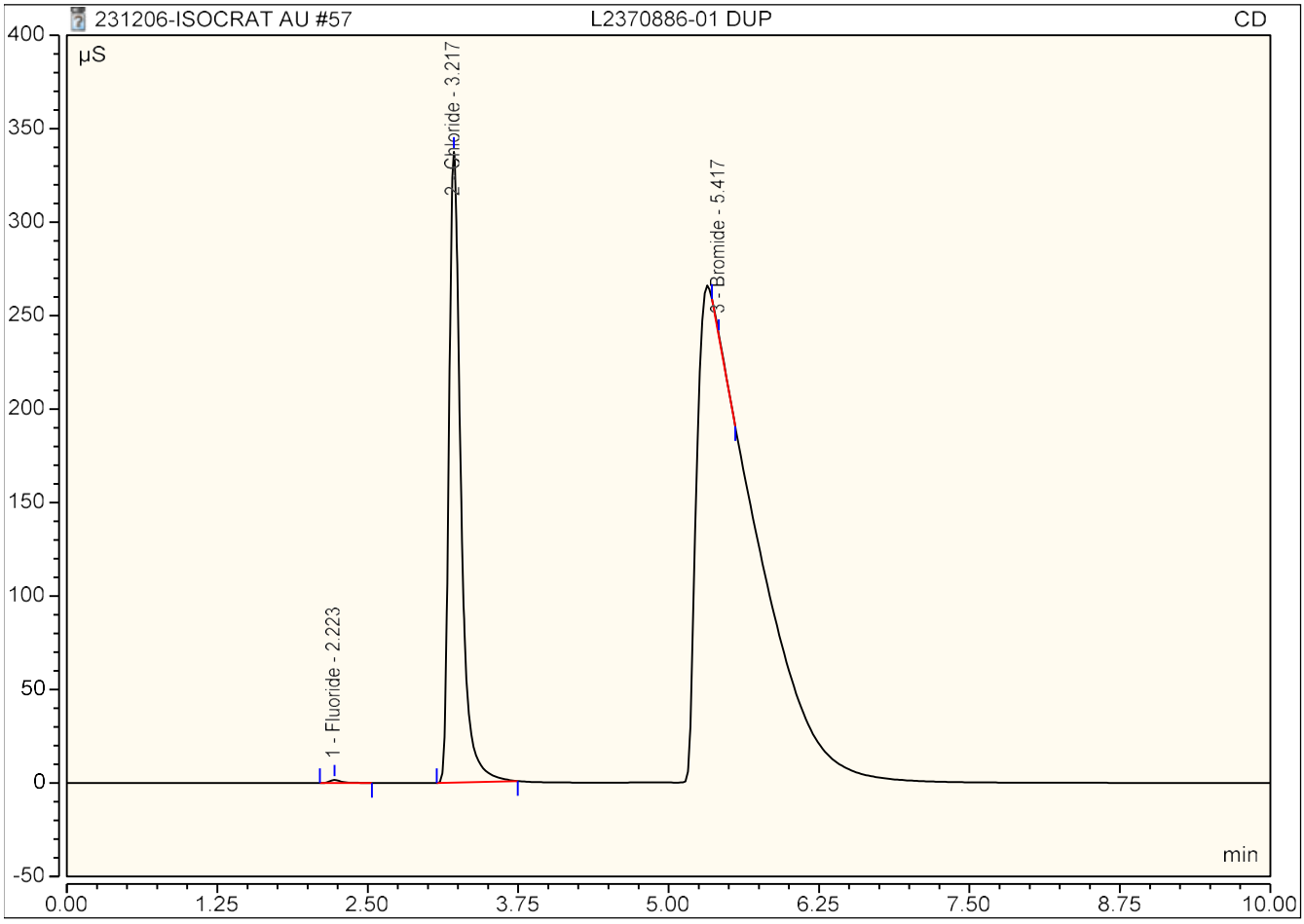
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.413	3.799	0.7031
3	3.22	**Chloride**	BMB	39.281	336.149	86.5197
4	5.40	**Bromide**	BMB	0.114	1.364	0.9189
TOTAL:				39.81	341.31	88.14



Peak Integration Report

Sample Name:	**L2370886-01 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 02:09**	*Run Time:*	**10.00**

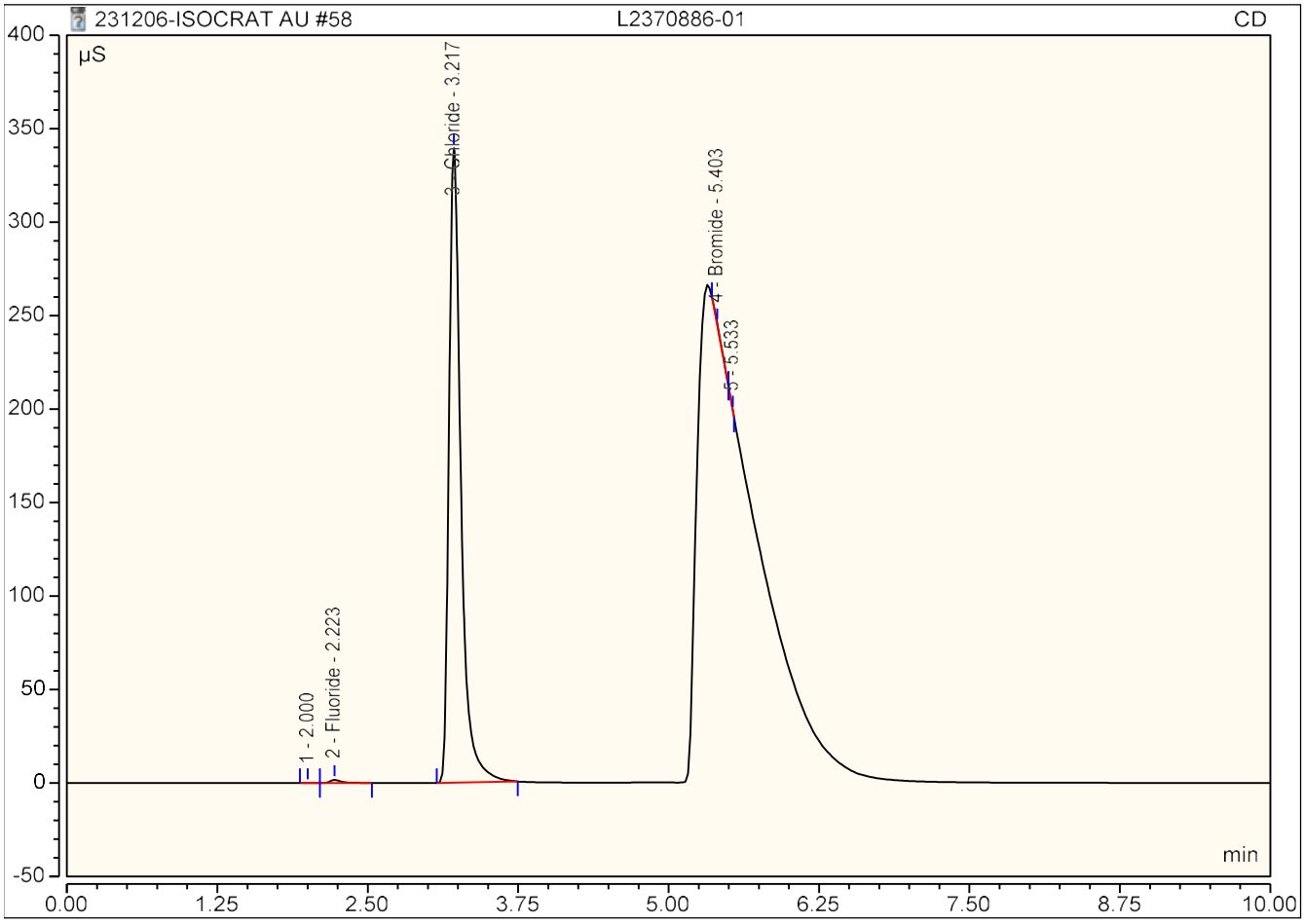
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.22	**Fluoride**	BMB	0.184	1.744	0.3385
2	3.22	**Chloride**	BMB	38.989	337.436	85.8790
3	5.42	**Bromide**	BMB	0.130	1.166	1.0408
TOTAL:				39.30	340.35	87.26



Peak Integration Report

Sample Name:	**L2370886-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 02:21**	*Run Time:*	**10.00**

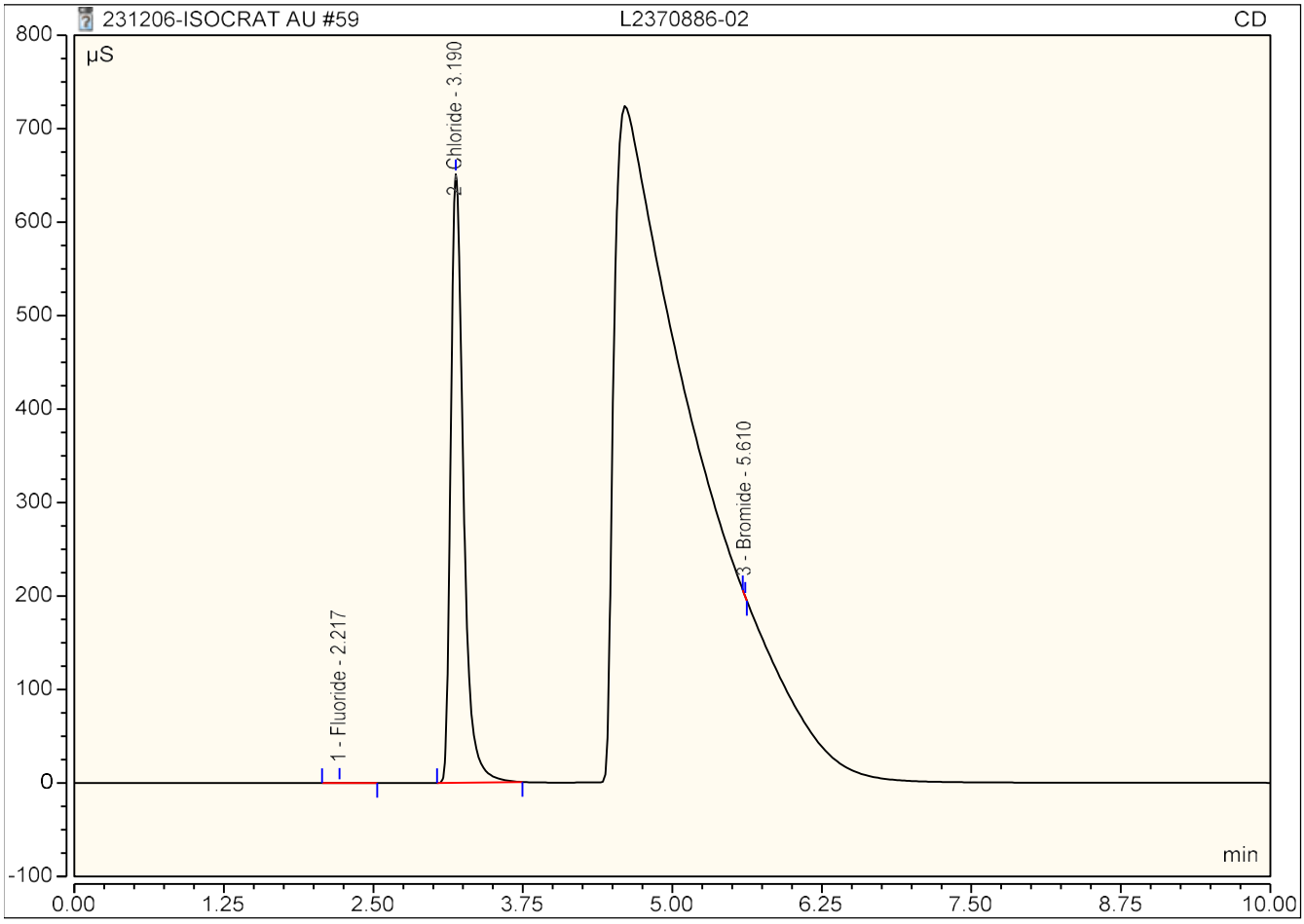
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.182	1.739	0.3365
3	3.22	**Chloride**	BMB	39.238	339.480	86.4253
4	5.40	**Bromide**	BMB	0.088	1.040	0.7189
TOTAL:				39.51	342.26	87.48



Peak Integration Report

Sample Name:	**L2370886-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 02:33**	*Run Time:*	**10.00**

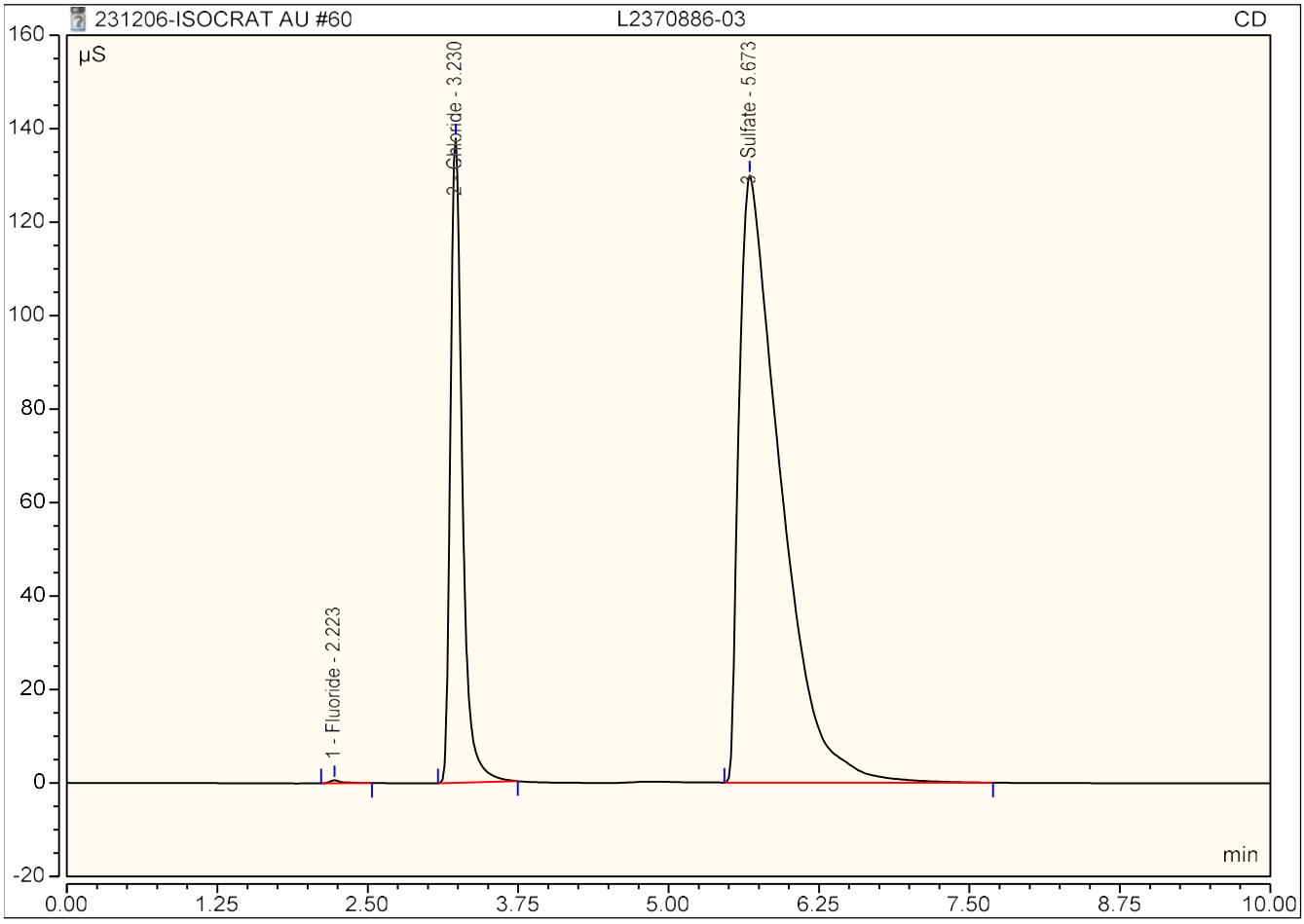
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.22	**Fluoride**	BMB	0.022	0.148	0.0830
2	3.19	**Chloride**	BMB	80.384	650.980	176.8642
3	5.61	**Bromide**	BMB	0.002	0.102	0.0657
TOTAL:				80.41	651.23	177.01



Peak Integration Report

Sample Name:	**L2370886-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 02:45**	*Run Time:*	**10.00**

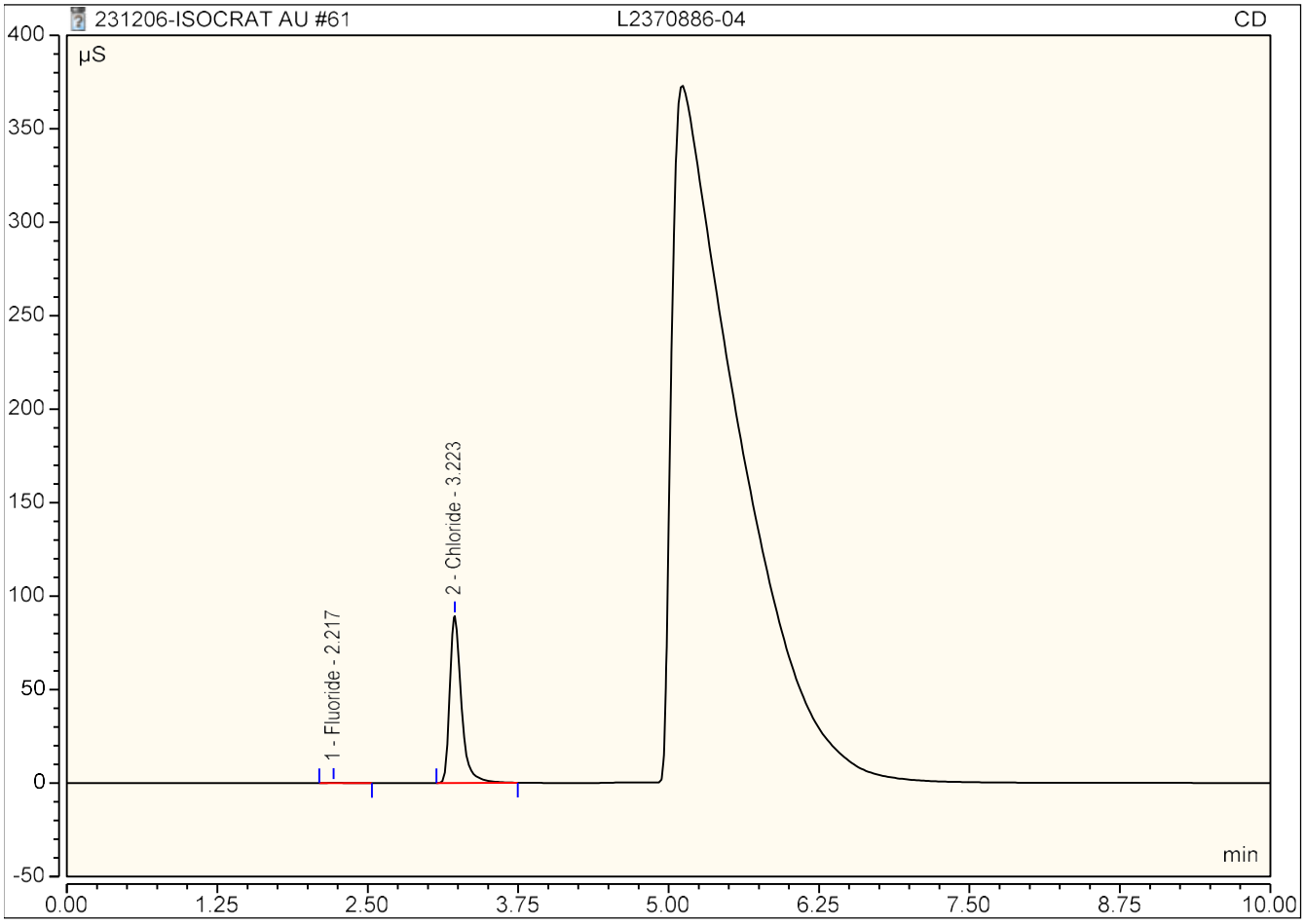
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.22	**Fluoride**	BMB	0.072	0.623	0.1623
2	3.23	**Chloride**	BMB	15.813	137.863	34.9371
3	5.67	**Sulfate**	BMB	51.651	129.870	164.5173
TOTAL:				67.54	268.36	199.62



Peak Integration Report

Sample Name:	**L2370886-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 02:57**	*Run Time:*	**10.00**

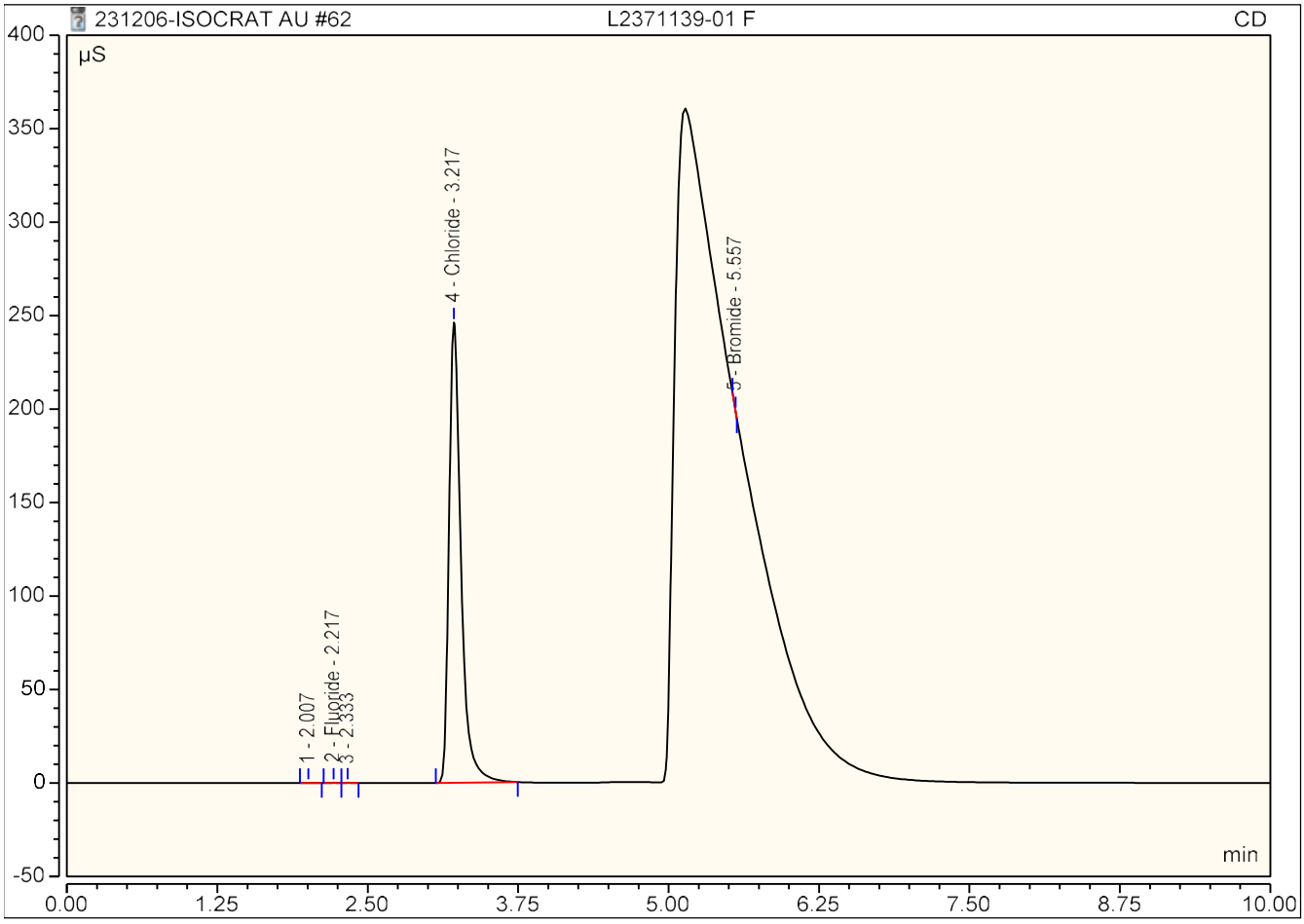
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.22	**Fluoride**	BMB	0.027	0.229	0.0910
2	3.22	**Chloride**	BMB	10.015	89.289	22.1933
TOTAL:				10.04	89.52	22.28



Peak Integration Report

Sample Name:	**L2371139-01 F**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 03:09**	*Run Time:*	**10.00**

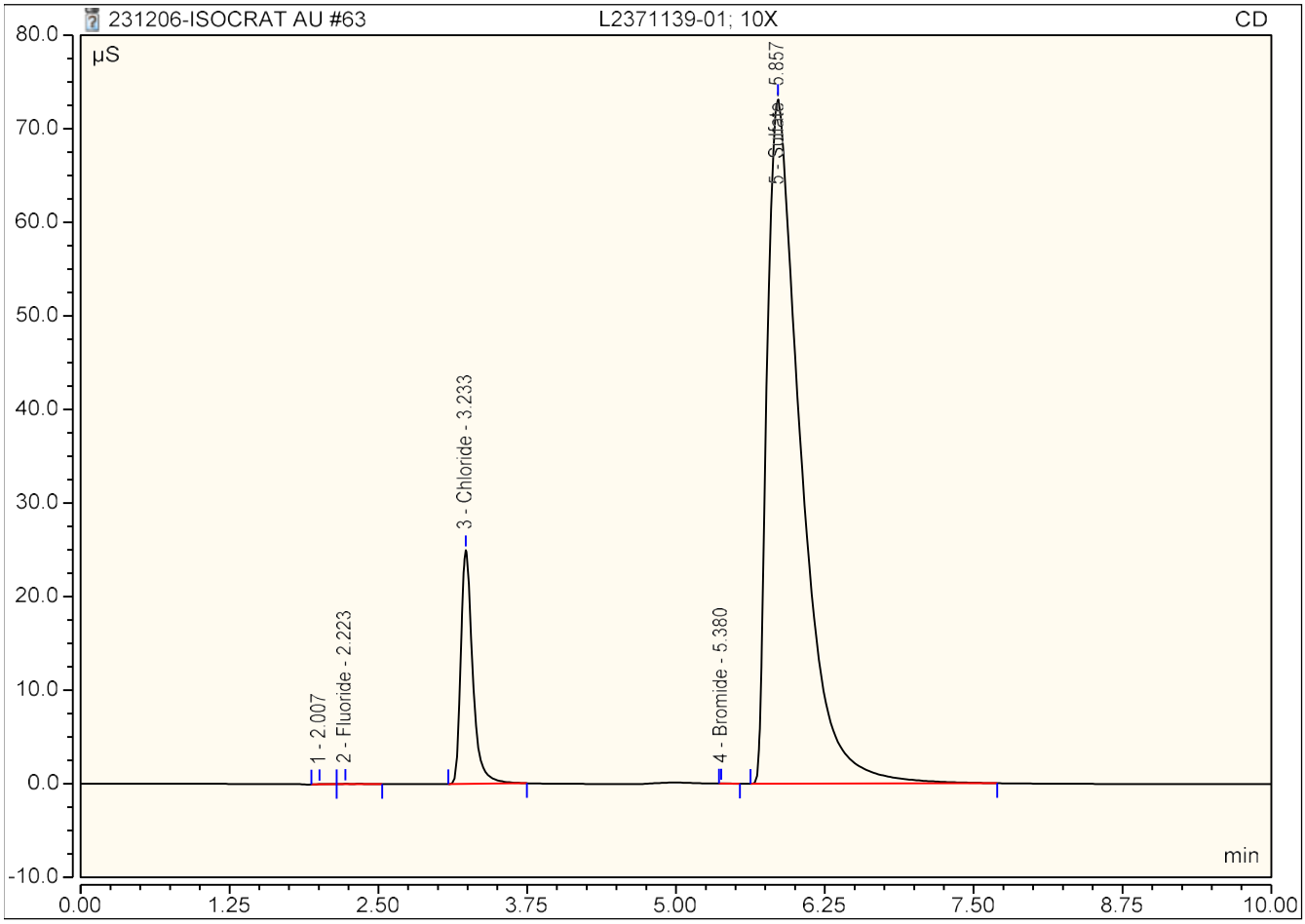
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.005	0.063	0.0549
4	3.22	**Chloride**	BMB	28.507	246.156	62.8379
5	5.56	**Bromide**	BMB	0.002	0.122	0.0702
TOTAL:				28.51	246.34	62.96



Peak Integration Report

Sample Name:	**L2371139-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 03:21**	*Run Time:*	**10.00**

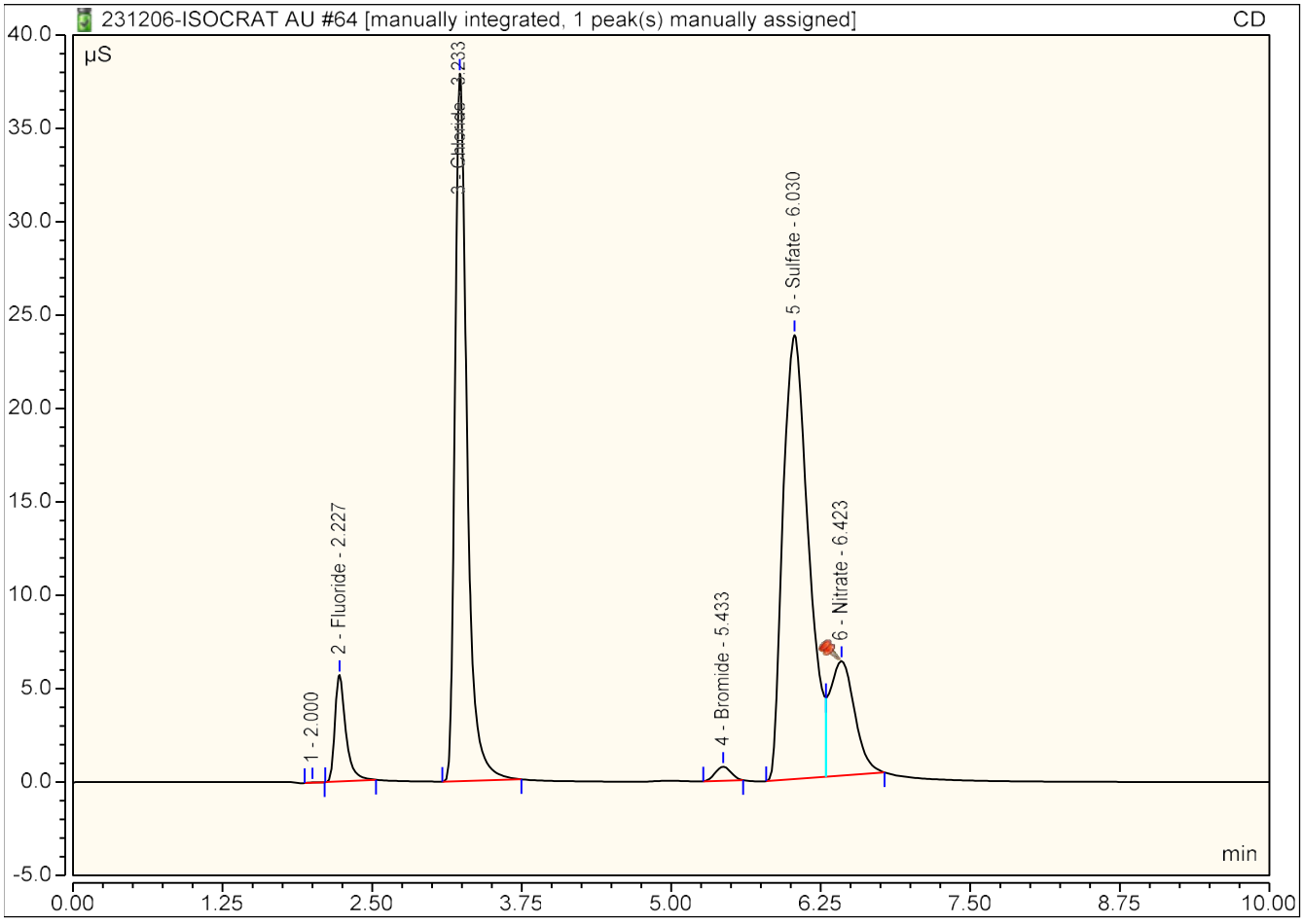
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.003	0.015	0.5193
3	3.23	**Chloride**	BMB	2.879	24.979	65.0688
4	5.38	**Bromide**	BMB	0.001	0.004	0.6038
5	5.86	**Sulfate**	BMB	23.946	73.207	764.2599
TOTAL:				26.83	98.21	830.45



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 03:33**	*Run Time:*	**10.00**

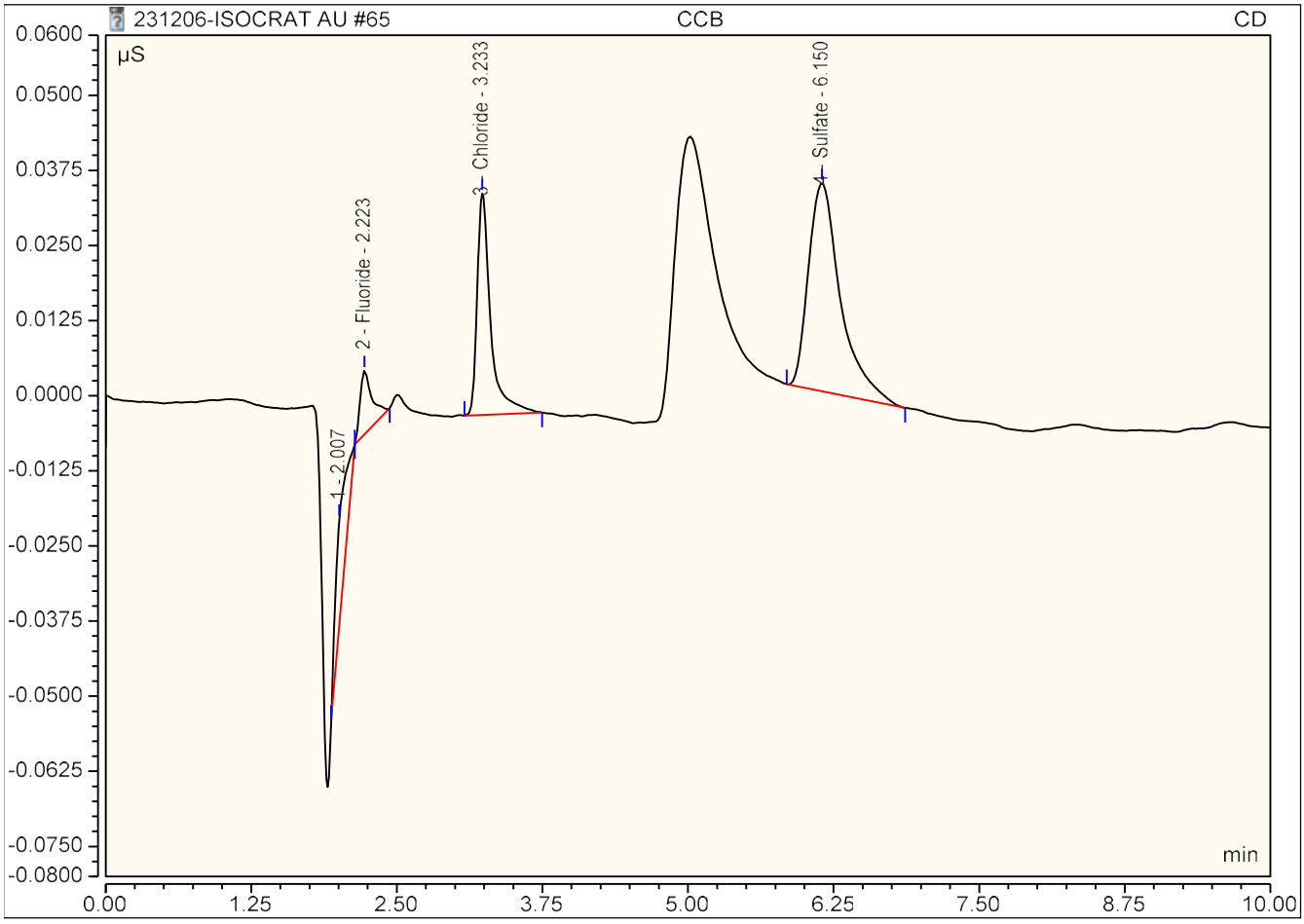
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.601	5.697	1.0007
3	3.23	**Chloride**	BMB	4.483	37.872	10.0338
4	5.43	**Bromide**	BMB*	0.115	0.751	0.9225
5	6.03	**Sulfate**	BM *	5.874	23.772	18.9643
6	6.42	**Nitrate**	MB*^	1.479	6.146	1.1024
TOTAL:				12.55	74.24	32.02



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 03:45**	*Run Time:*	**10.00**

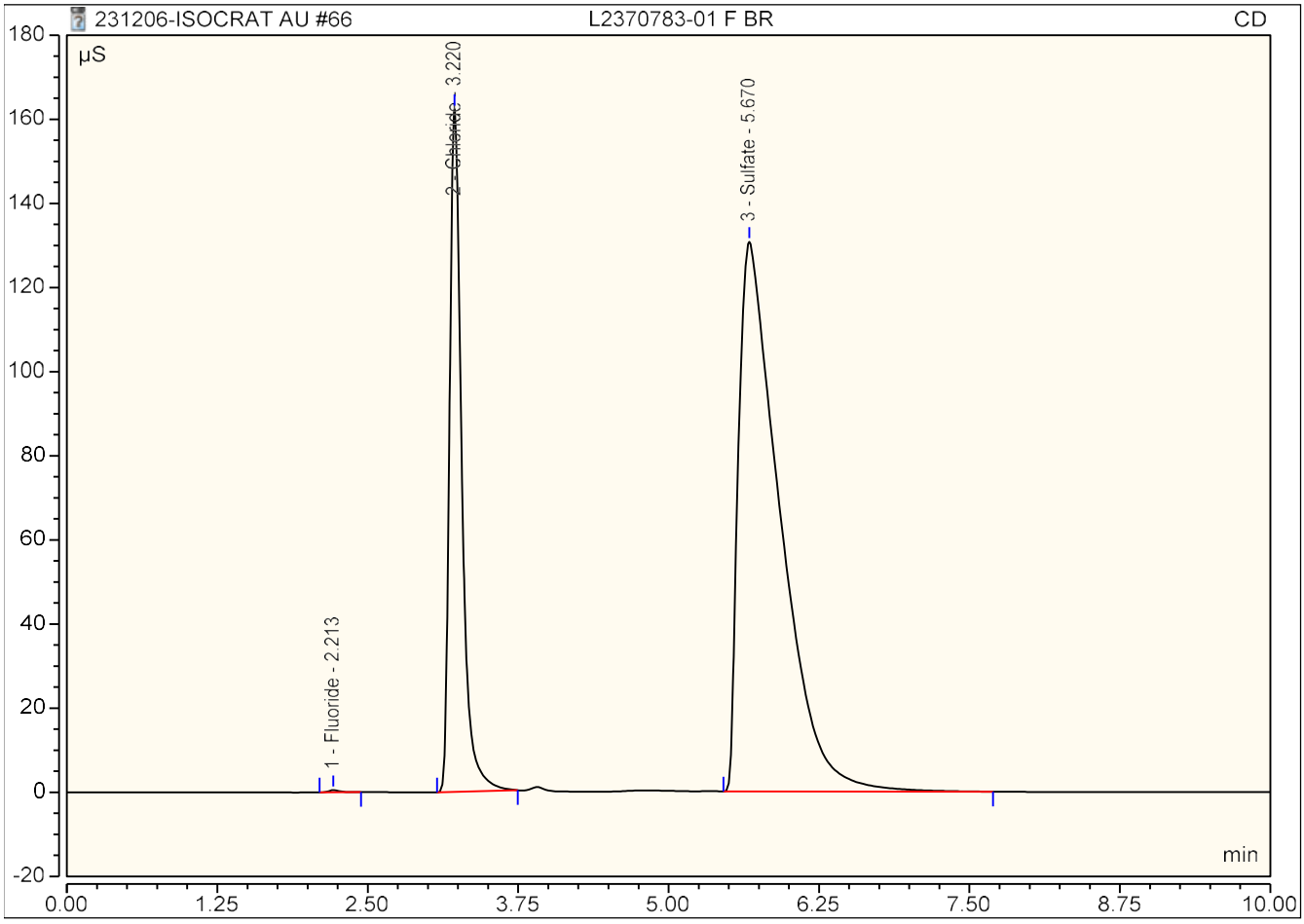
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.001	0.011	0.0494
3	3.23	**Chloride**	BMB	0.005	0.037	0.1899
4	6.15	**Sulfate**	BMB	0.011	0.035	0.3236
TOTAL:				0.02	0.08	0.56



Peak Integration Report

Sample Name:	**L2370783-01 F BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 03:57**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.21	**Fluoride**	BMB	0.053	0.515	0.1322
2	3.22	**Chloride**	BMB	19.151	162.268	42.2734
3	5.67	**Sulfate**	BMB	52.080	130.668	165.8824
TOTAL:				71.28	293.45	208.29



Peak Integration Report

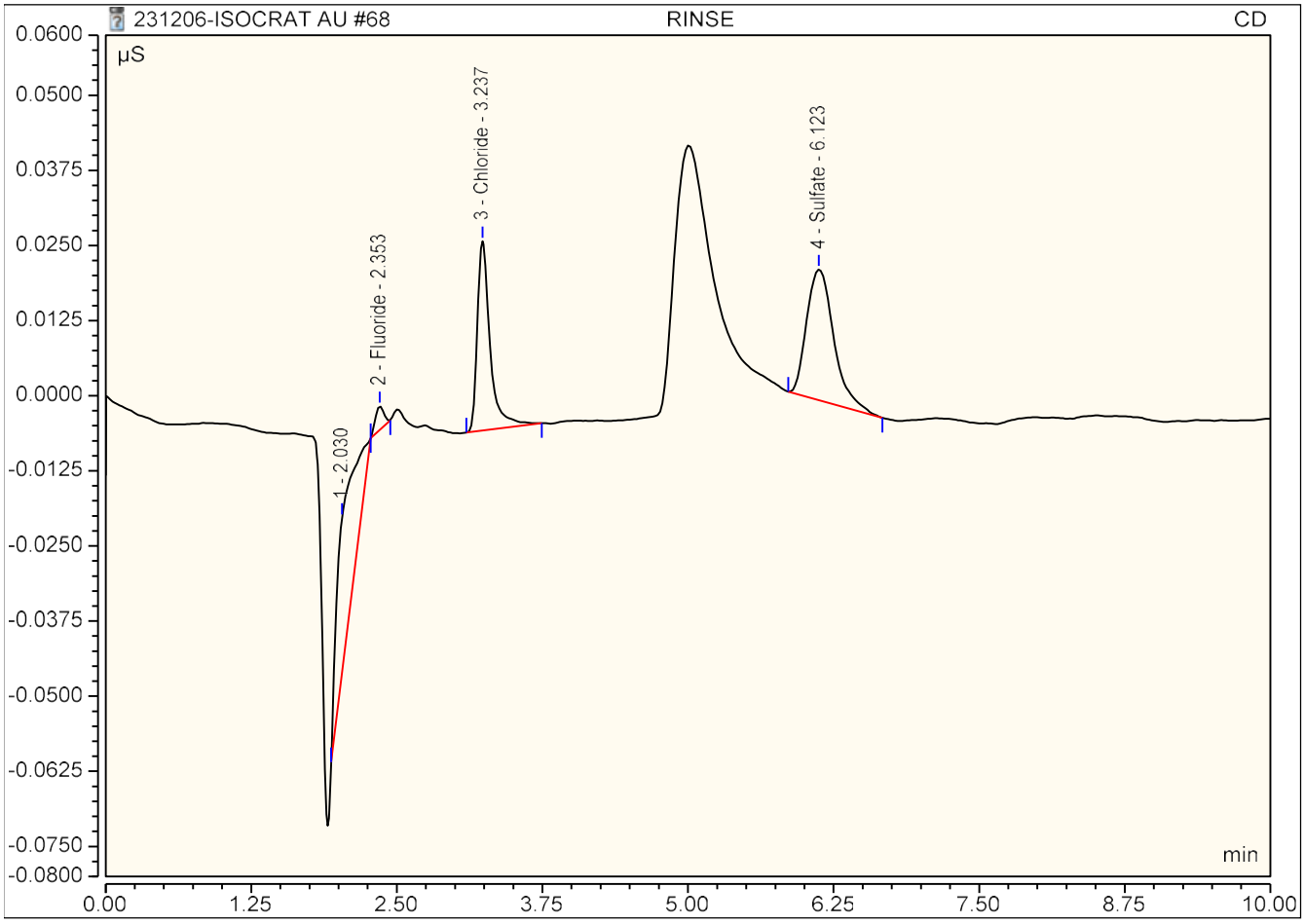
Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 04:10**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.35	**Fluoride**	BMB	0.012	0.017	0.0659
2	3.24	**Chloride**	BMB	0.004	0.033	0.1883
3	6.13	**Sulfate**	BMB	0.008	0.027	0.3140
TOTAL:				0.02	0.08	0.57

Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 04:22**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.35	**Fluoride**	BMB	0.000	0.004	0.0480
3	3.24	**Chloride**	BMB	0.004	0.031	0.1879
4	6.12	**Sulfate**	BMB	0.006	0.022	0.3072
TOTAL:				0.01	0.06	0.54



Peak Integration Report

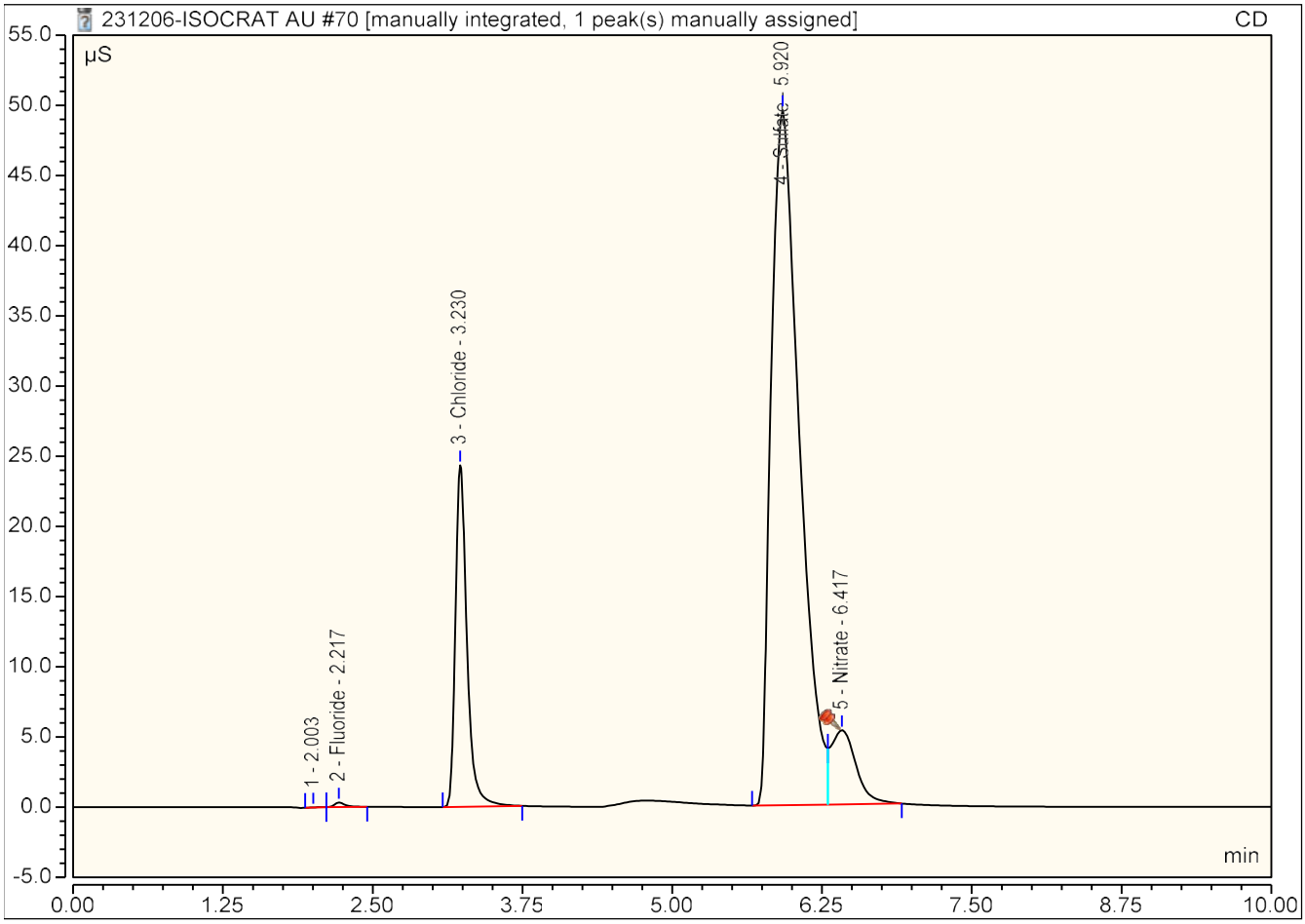
Sample Name:	**RINSE**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 04:34**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.35	**Fluoride**	BMB	0.000	0.004	0.0480
3	3.23	**Chloride**	BMB	0.004	0.030	0.1873
4	6.12	**Sulfate**	BMB	0.005	0.021	0.3057
TOTAL:				0.01	0.05	0.54

Peak Integration Report

Sample Name:	**L2370783-02 F BR CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 04:46**	*Run Time:*	**10.00**

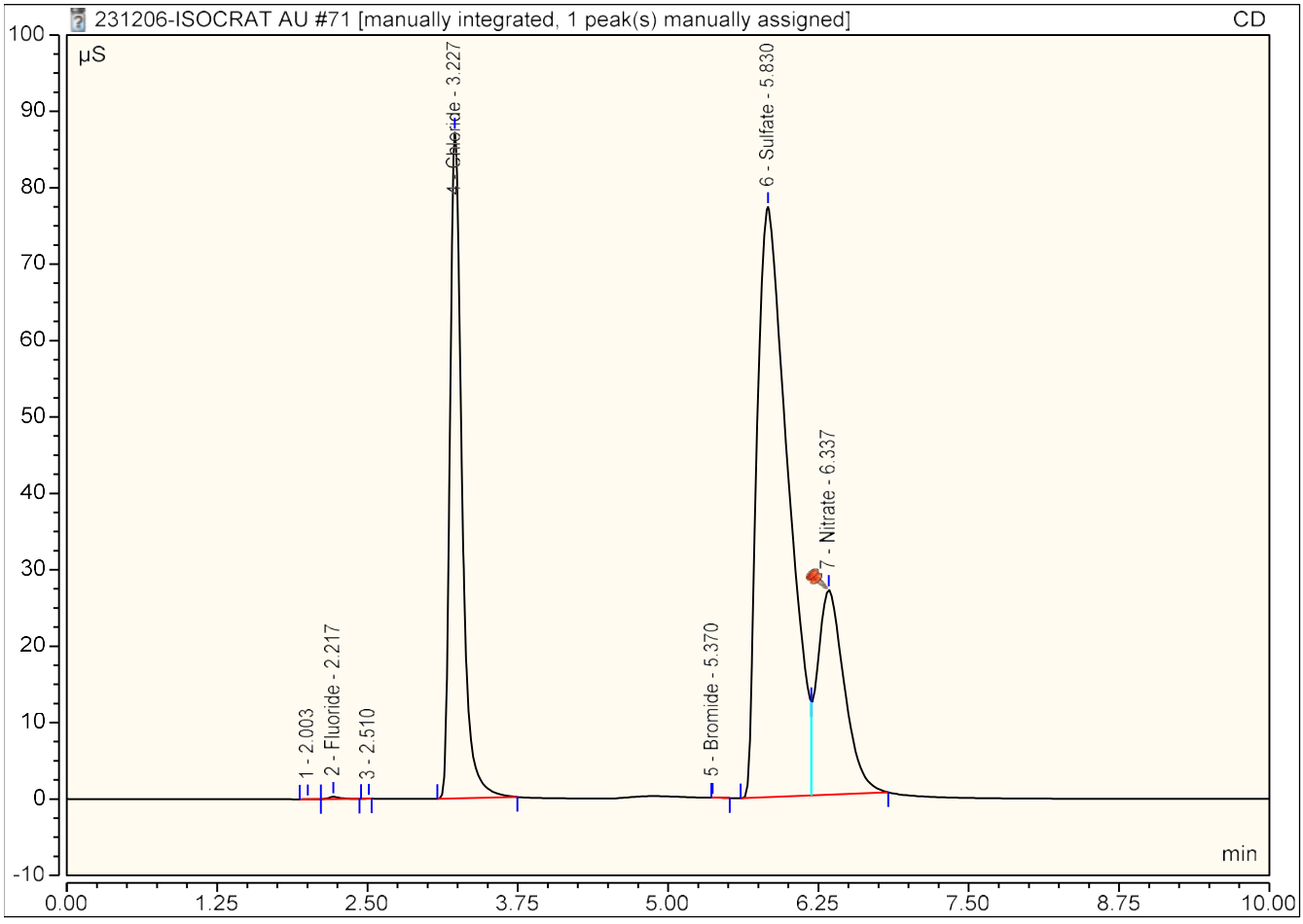
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.035	0.336	0.1026
3	3.23	**Chloride**	BMB	2.724	24.327	6.1667
4	5.92	**Sulfate**	BM *	13.503	49.527	43.2239
5	6.42	**Nitrate**	MB*^	1.280	5.283	0.9658
TOTAL:				17.54	79.47	50.46



Peak Integration Report

Sample Name:	**L2370783-03 F BR CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 04:58**	*Run Time:*	**10.00**

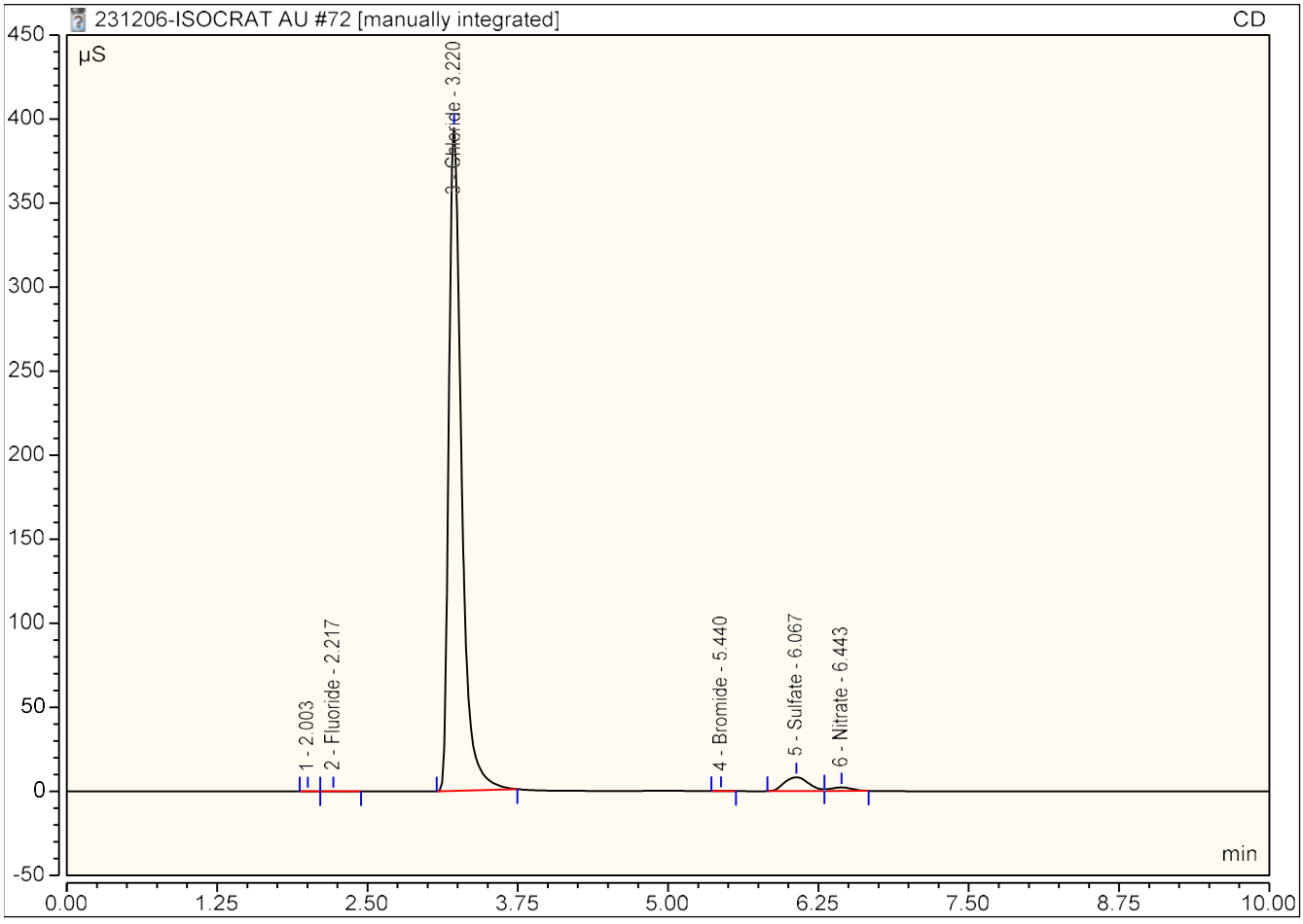
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.029	0.285	0.0942
4	3.23	**Chloride**	BMB	10.094	87.171	22.3654
5	5.37	**Bromide**	BMB	0.001	0.006	0.0643
6	5.83	**Sulfate**	BM *	22.880	77.260	73.0361
7	6.34	**Nitrate**	MB*^	7.001	26.818	4.8969
TOTAL:				40.01	191.54	100.46



Peak Integration Report

Sample Name:	**L2370783-04 F BR SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 05:10**	*Run Time:*	**10.00**

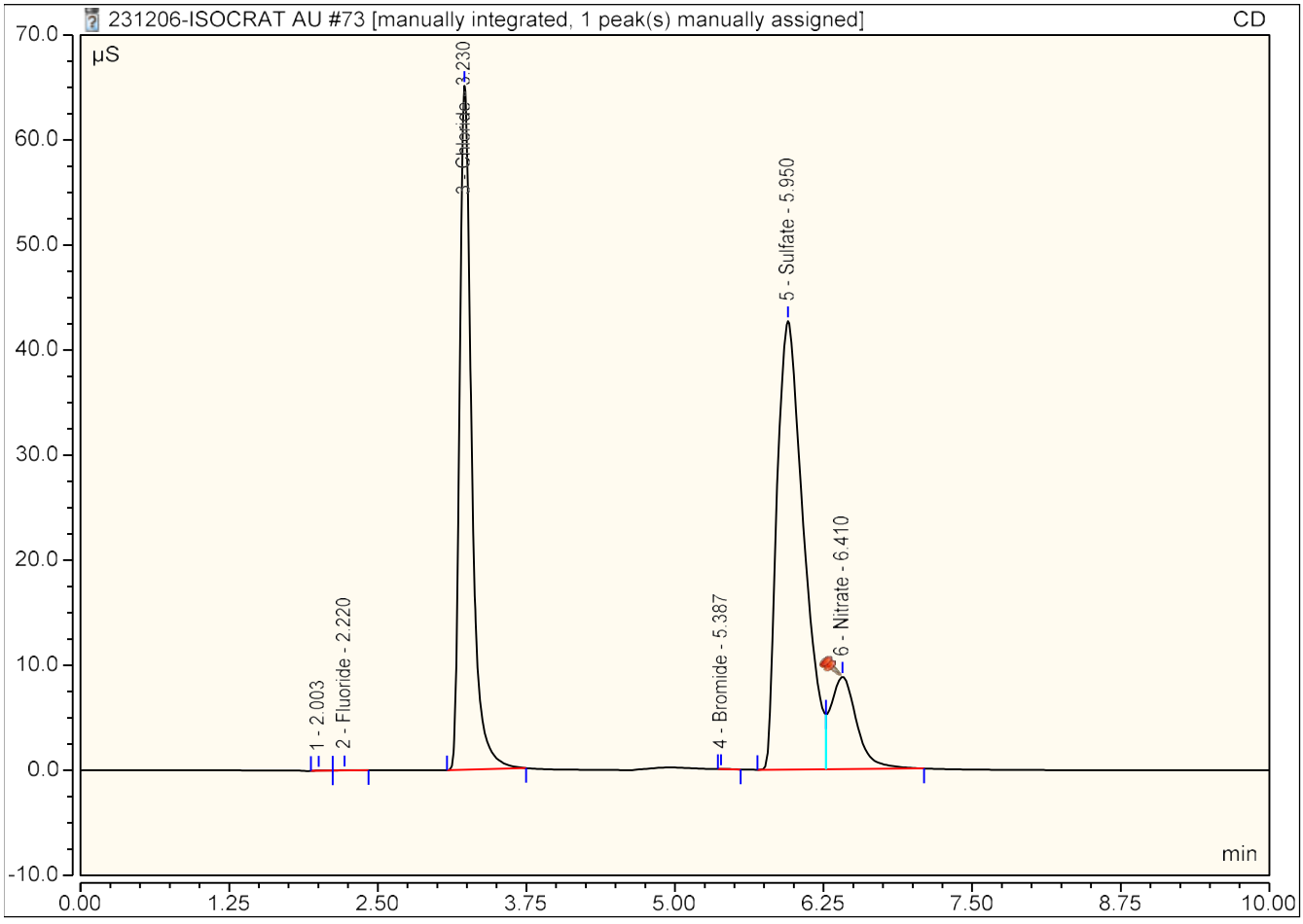
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.009	0.082	0.0622
3	3.22	**Chloride**	BMB	48.588	394.284	106.9778
4	5.44	**Bromide**	BMB	0.001	0.009	0.0612
5	6.07	**Sulfate**	BM *	1.924	8.235	6.4055
6	6.44	**Nitrate**	MB*	0.438	2.102	0.3875
TOTAL:				50.96	404.71	113.89



Peak Integration Report

Sample Name:	**L2370783-05 F BR CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 05:22**	*Run Time:*	**10.00**

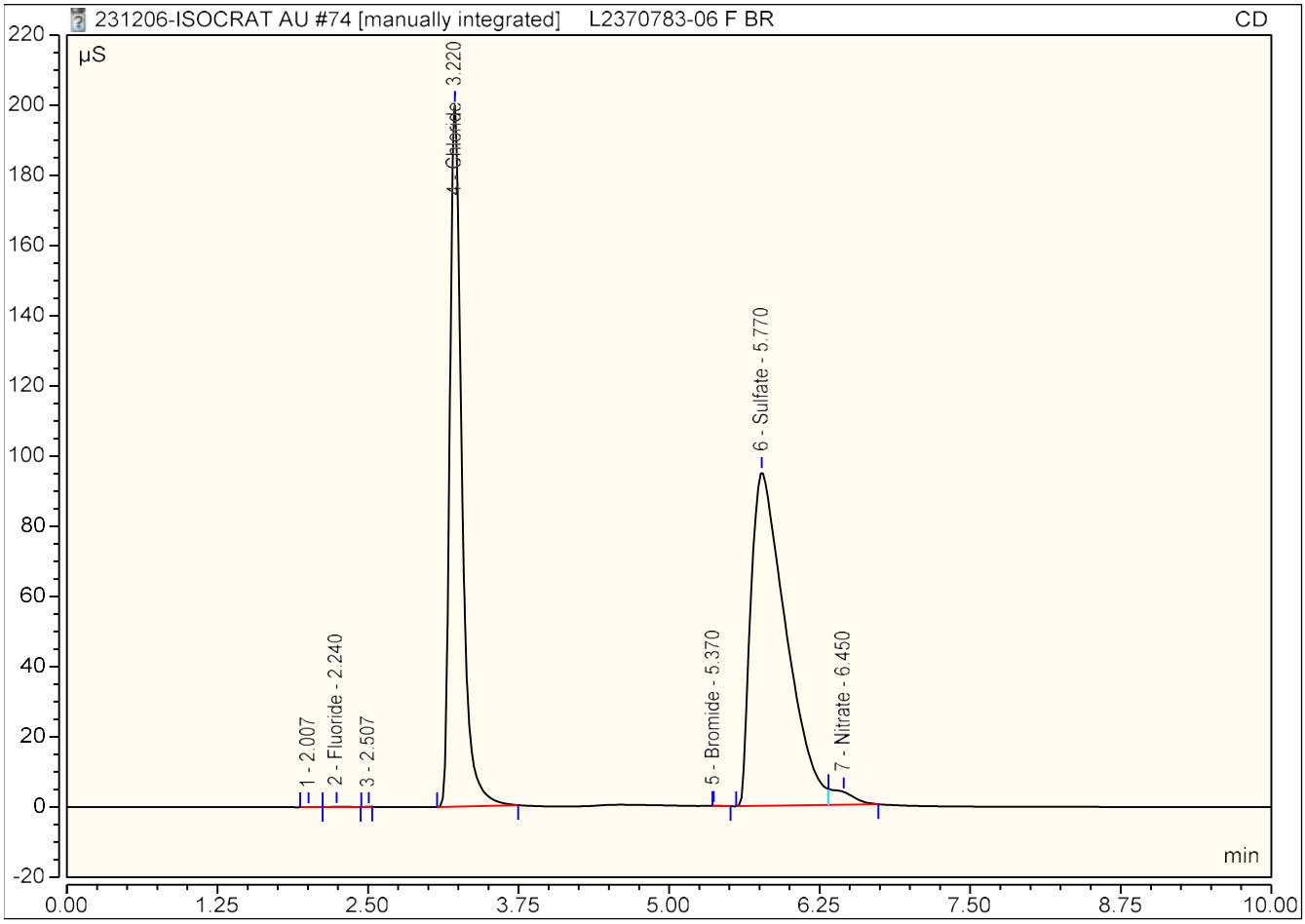
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.003	0.030	0.0530
3	3.23	**Chloride**	BMB	7.645	65.122	16.9819
4	5.39	**Bromide**	BMB	0.002	0.009	0.0664
5	5.95	**Sulfate**	BM *	11.066	42.681	35.4740
6	6.41	**Nitrate**	MB*^	2.239	8.798	1.6250
TOTAL:				20.95	116.64	54.20



Peak Integration Report

Sample Name:	**L2370783-06 F BR**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 05:34**	*Run Time:*	**10.00**

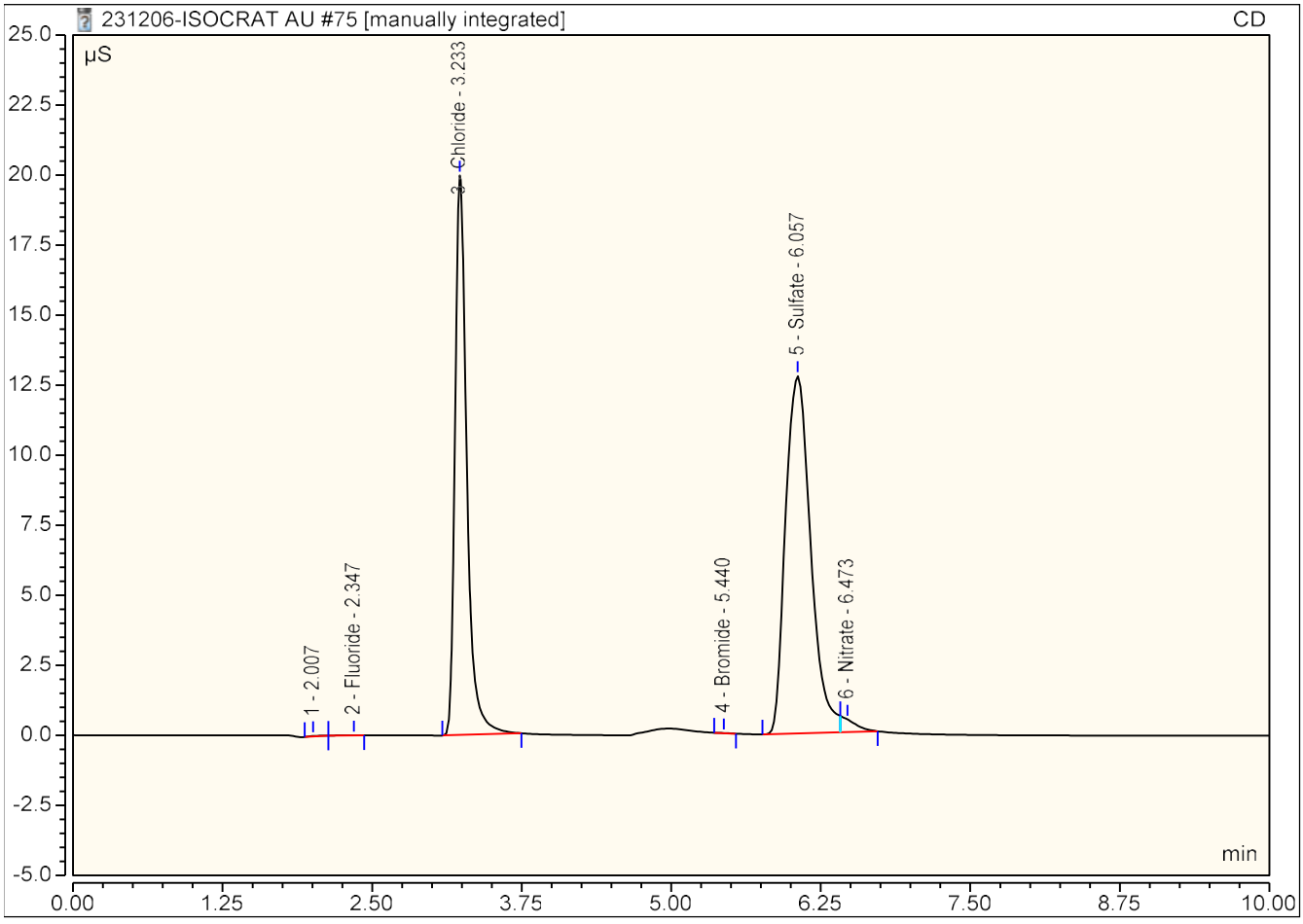
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.24	**Fluoride**	BMB	0.009	0.063	0.0621
4	3.22	**Chloride**	BMB	23.305	199.748	51.4036
5	5.37	**Bromide**	BMB	0.002	0.010	0.0705
6	5.77	**Sulfate**	BM *	31.897	95.211	101.7090
7	6.45	**Nitrate**	MB*	0.908	3.631	0.7099
TOTAL:				56.12	298.66	153.96



Peak Integration Report

Sample Name:	**L2370783-06; 10X SO4 CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 05:46**	*Run Time:*	**10.00**

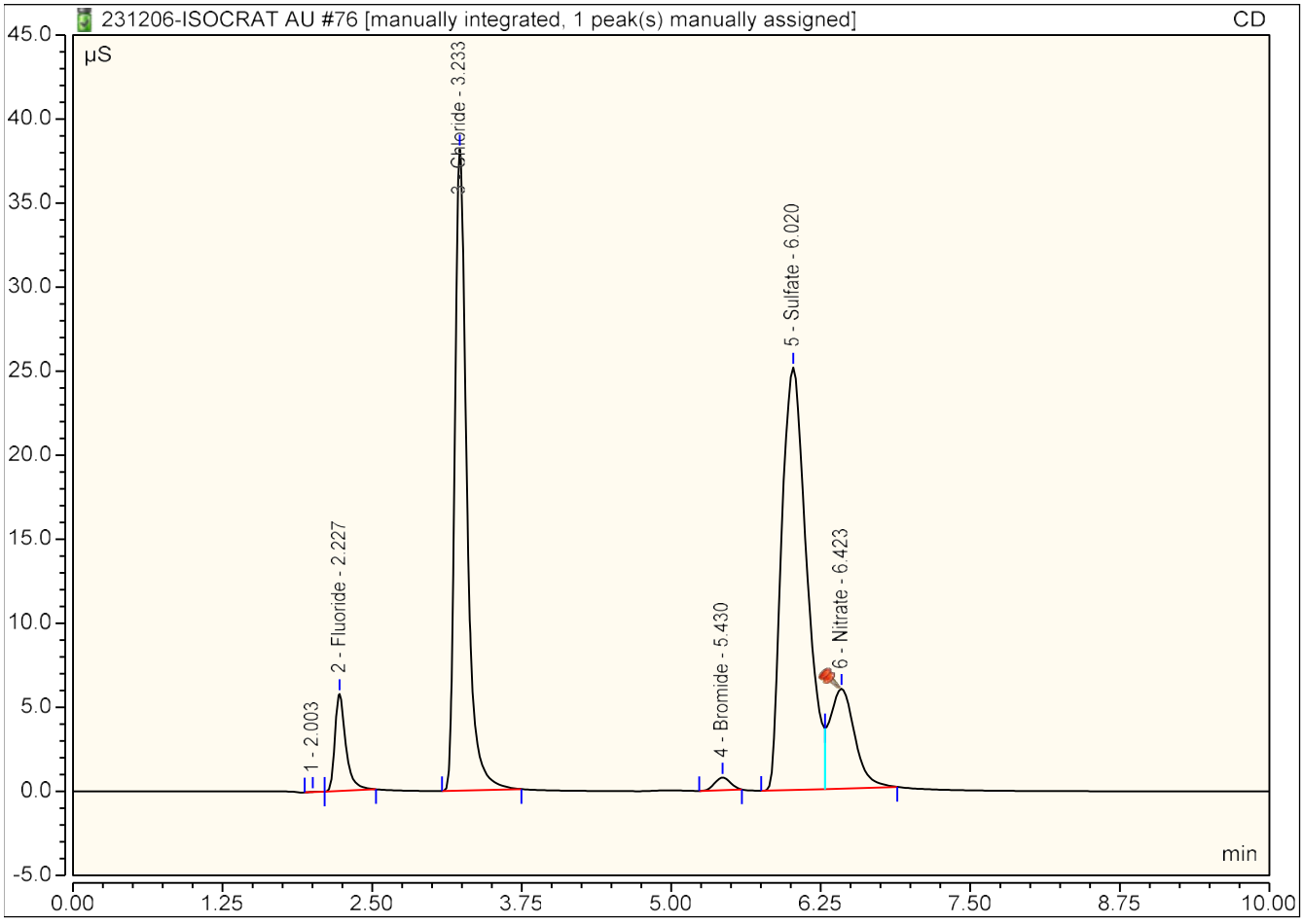
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.35	**Fluoride**	BMB	0.001	0.003	0.4886
3	3.23	**Chloride**	BMB	2.298	19.977	52.3119
4	5.44	**Bromide**	BMB	0.000	0.004	0.5703
5	6.06	**Sulfate**	BM *	3.113	12.765	101.8731
6	6.47	**Nitrate**	MB*	0.074	0.451	1.3748
TOTAL:				5.49	33.20	156.62



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 05:58**	*Run Time:*	**10.00**

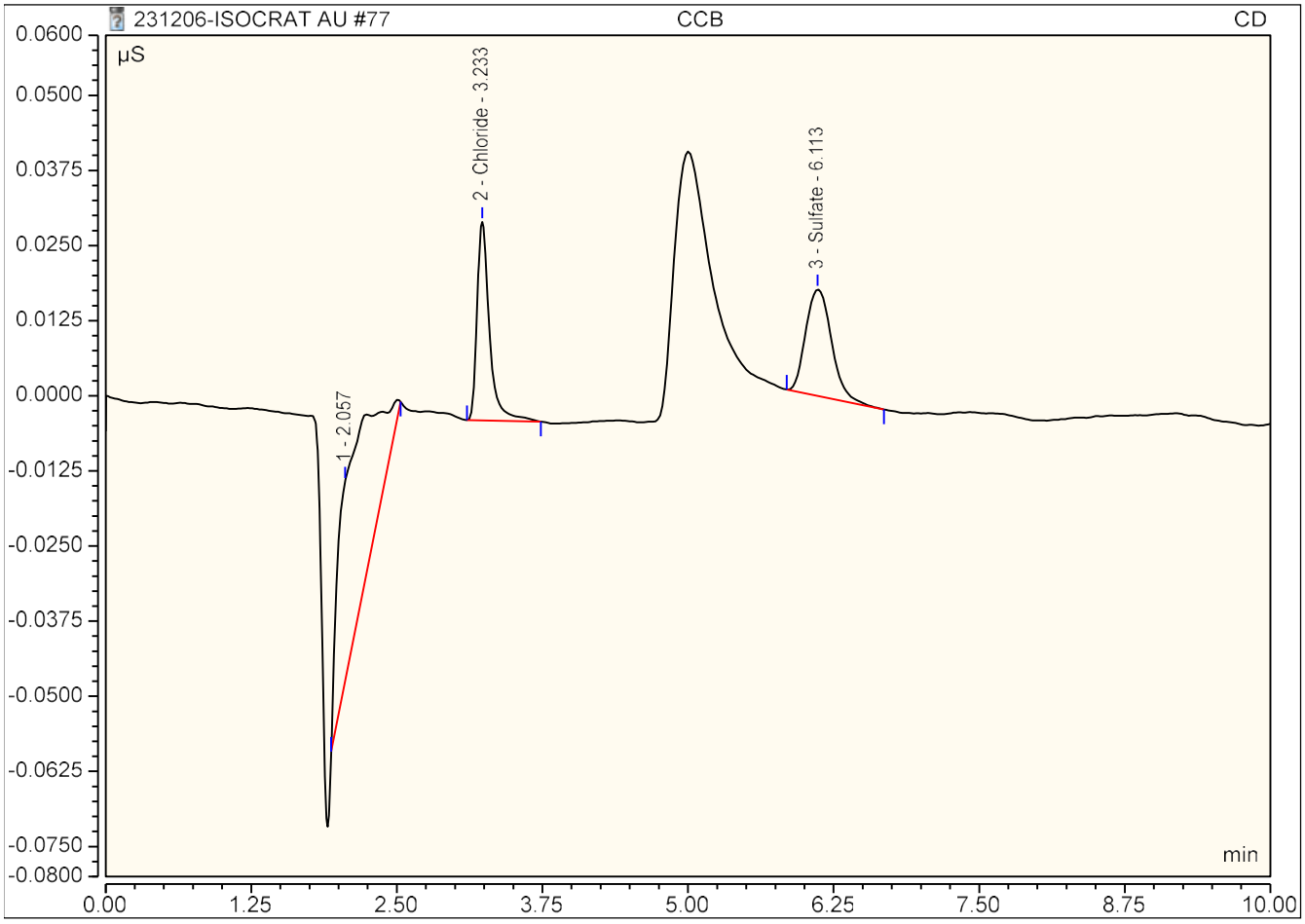
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.610	5.776	1.0148
3	3.23	**Chloride**	BMB	4.481	38.156	10.0294
4	5.43	**Bromide**	BMB*	0.114	0.755	0.9194
5	6.02	**Sulfate**	BM *	6.096	25.141	19.6727
6	6.42	**Nitrate**	MB*^	1.447	5.945	1.0803
TOTAL:				12.75	75.77	32.72



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 06:10**	*Run Time:*	**10.00**

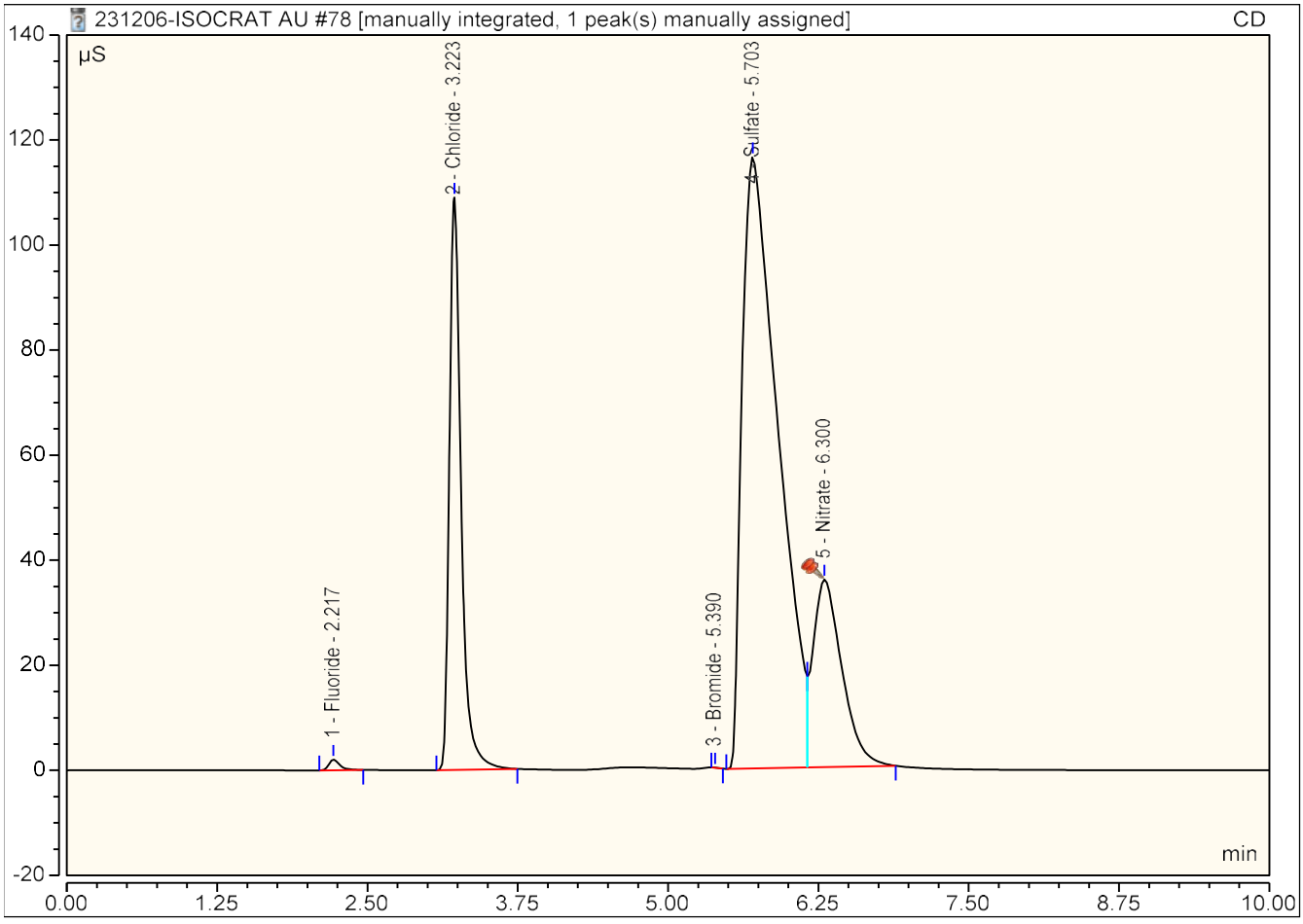
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.23	**Chloride**	BMB	0.004	0.033	0.1881
3	6.11	**Sulfate**	BMB	0.005	0.018	0.3030
TOTAL:				0.01	0.05	0.49



Peak Integration Report

Sample Name:	**L2370783-07 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 06:22**	*Run Time:*	**10.00**

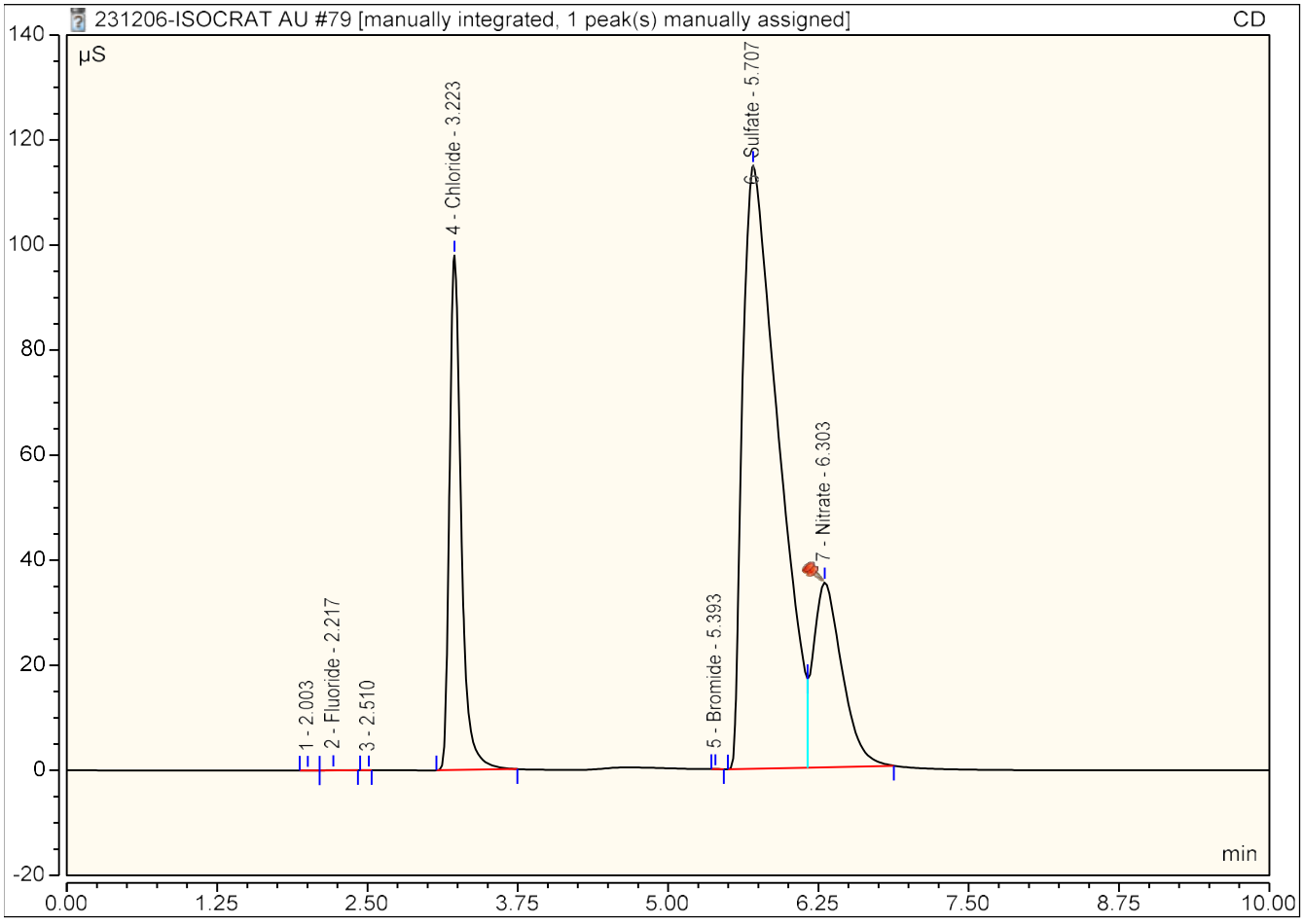
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.22	**Fluoride**	BMB	0.210	2.035	0.3809
2	3.22	**Chloride**	BMB	12.403	108.959	27.4418
3	5.39	**Bromide**	BMB	0.002	0.035	0.0682
4	5.70	**Sulfate**	BM *	40.339	116.395	128.5498
5	6.30	**Nitrate**	MB*^	9.954	35.729	6.9260
TOTAL:				62.91	263.15	163.37



Peak Integration Report

Sample Name:	**L2370783-07 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 06:34**	*Run Time:*	**10.00**

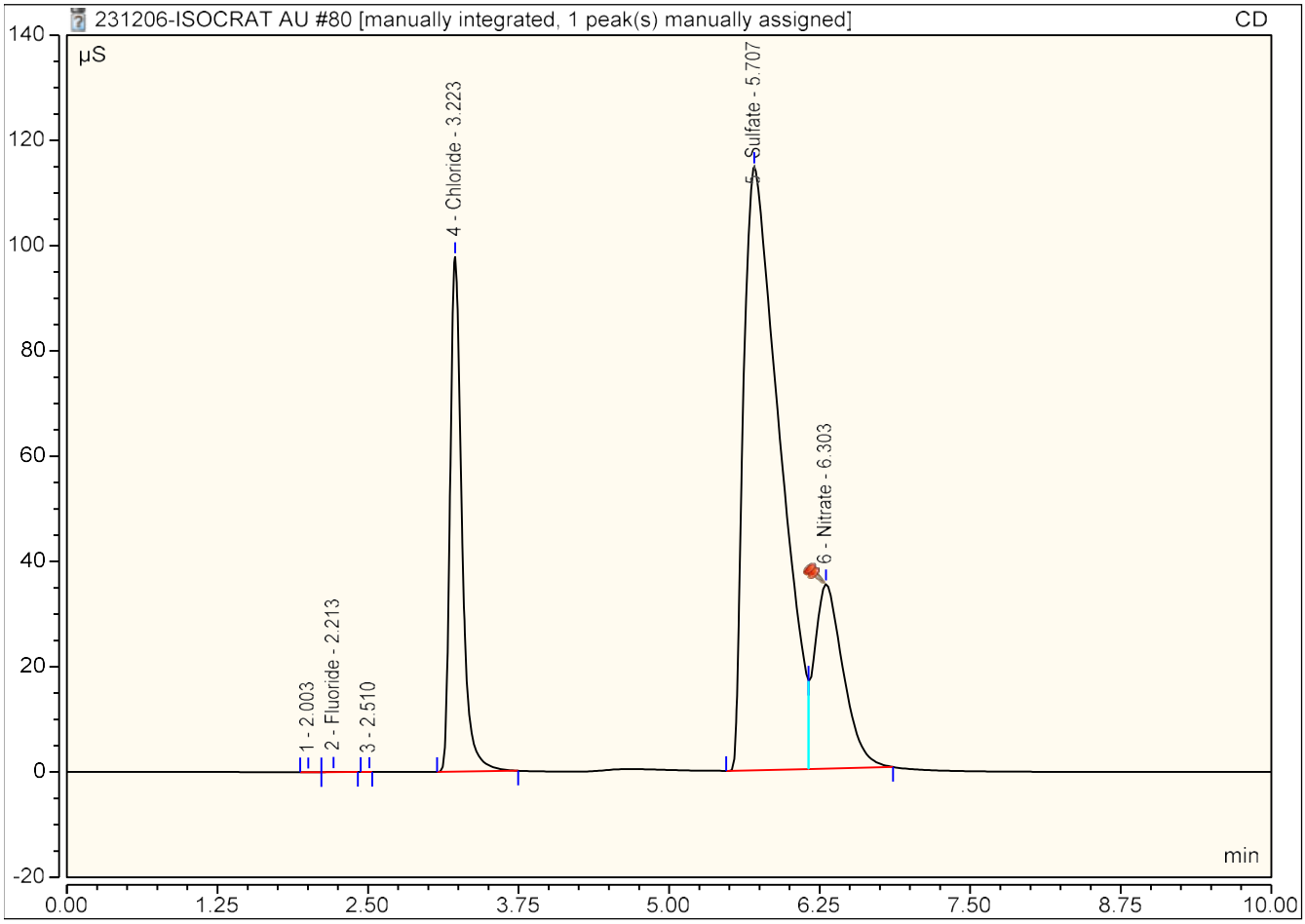
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.007	0.062	0.0586
4	3.22	**Chloride**	BMB	11.126	97.971	24.6335
5	5.39	**Bromide**	BMB	0.000	0.008	0.0576
6	5.71	**Sulfate**	BM *	39.582	114.795	126.1432
7	6.30	**Nitrate**	MB*^	9.742	35.200	6.7803
TOTAL:				60.46	248.04	157.67



Peak Integration Report

Sample Name:	**L2370783-07**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 06:47**	*Run Time:*	**10.00**

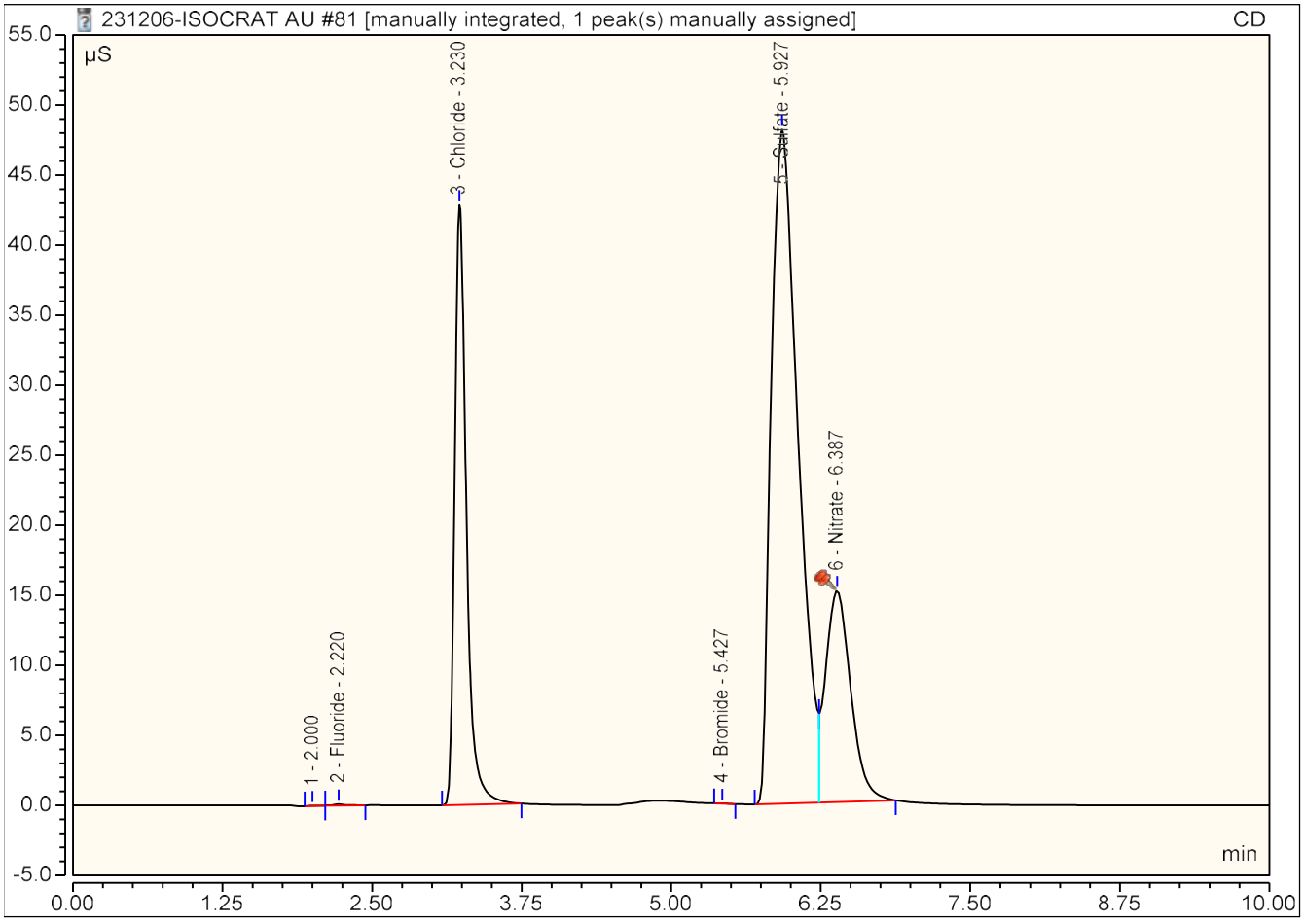
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.21	**Fluoride**	BMB	0.007	0.059	0.0580
4	3.22	**Chloride**	BMB	11.140	97.822	24.6642
5	5.71	**Sulfate**	BM *	39.520	114.631	125.9449
6	6.30	**Nitrate**	MB*^	9.722	35.068	6.7662
TOTAL:				60.39	247.58	157.43



Peak Integration Report

Sample Name:	**L2370783-08**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 06:59**	*Run Time:*	**10.00**

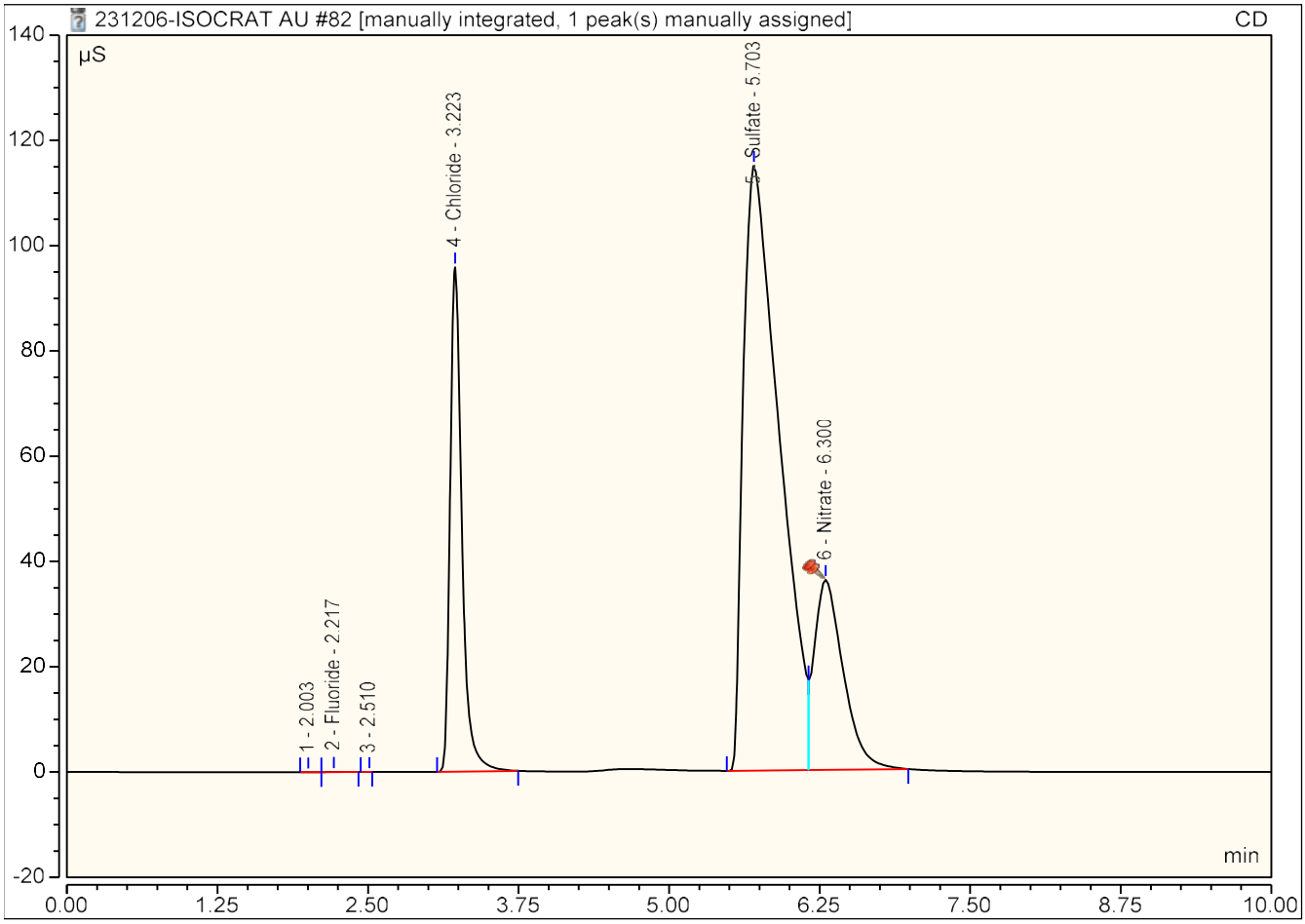
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.009	0.084	0.0619
3	3.23	**Chloride**	BMB	4.897	42.842	10.9419
4	5.43	**Bromide**	BMB	0.001	0.008	0.0598
5	5.93	**Sulfate**	BM *	12.514	48.127	40.0791
6	6.39	**Nitrate**	MB*^	3.693	15.101	2.6238
TOTAL:				21.11	106.16	53.77



Peak Integration Report

Sample Name:	**L2370783-10**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 07:11**	*Run Time:*	**10.00**

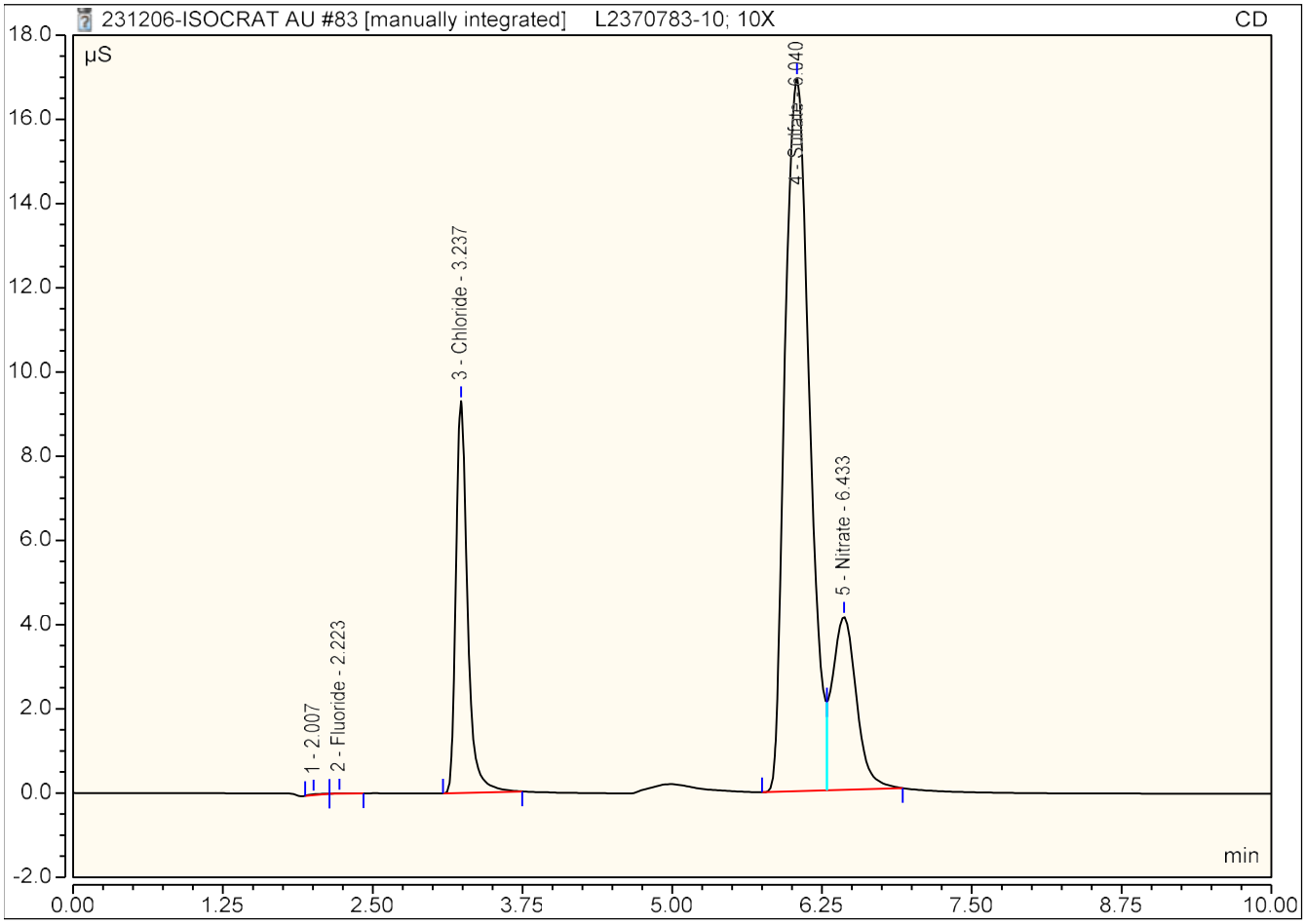
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.007	0.059	0.0587
4	3.22	**Chloride**	BMB	10.899	95.846	24.1358
5	5.70	**Sulfate**	BM *	39.823	114.987	126.9087
6	6.30	**Nitrate**	MB*^	10.122	36.118	7.0412
TOTAL:				60.85	247.01	158.14



Peak Integration Report

Sample Name:	**L2370783-10; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 07:23**	*Run Time:*	**10.00**

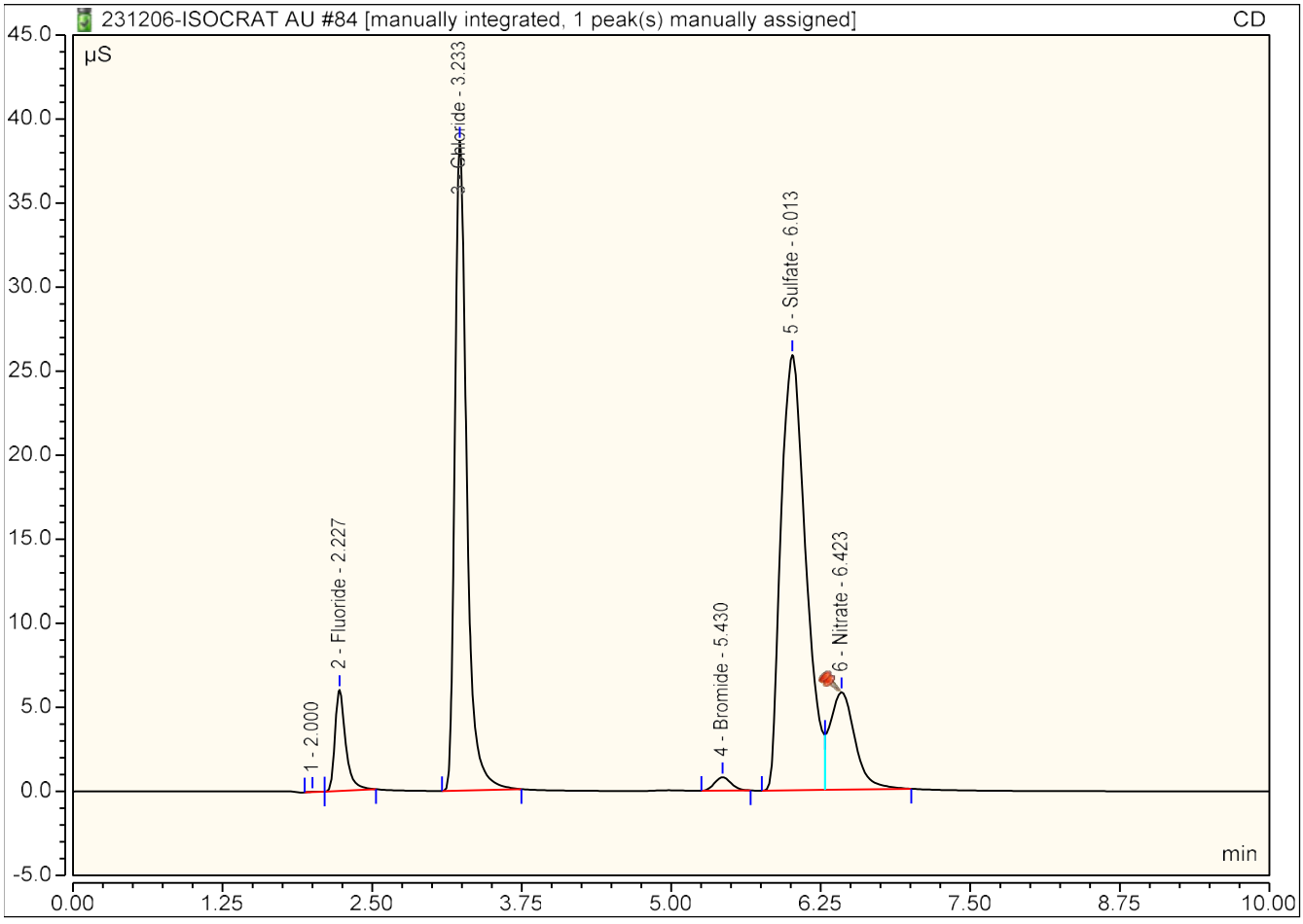
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.001	0.007	0.4900
3	3.24	**Chloride**	BMB	1.054	9.307	24.9690
4	6.04	**Sulfate**	BM *	4.012	16.939	130.4593
5	6.43	**Nitrate**	MB*	0.963	4.116	7.4794
TOTAL:				6.03	30.37	163.40



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 07:35**	*Run Time:*	**10.00**

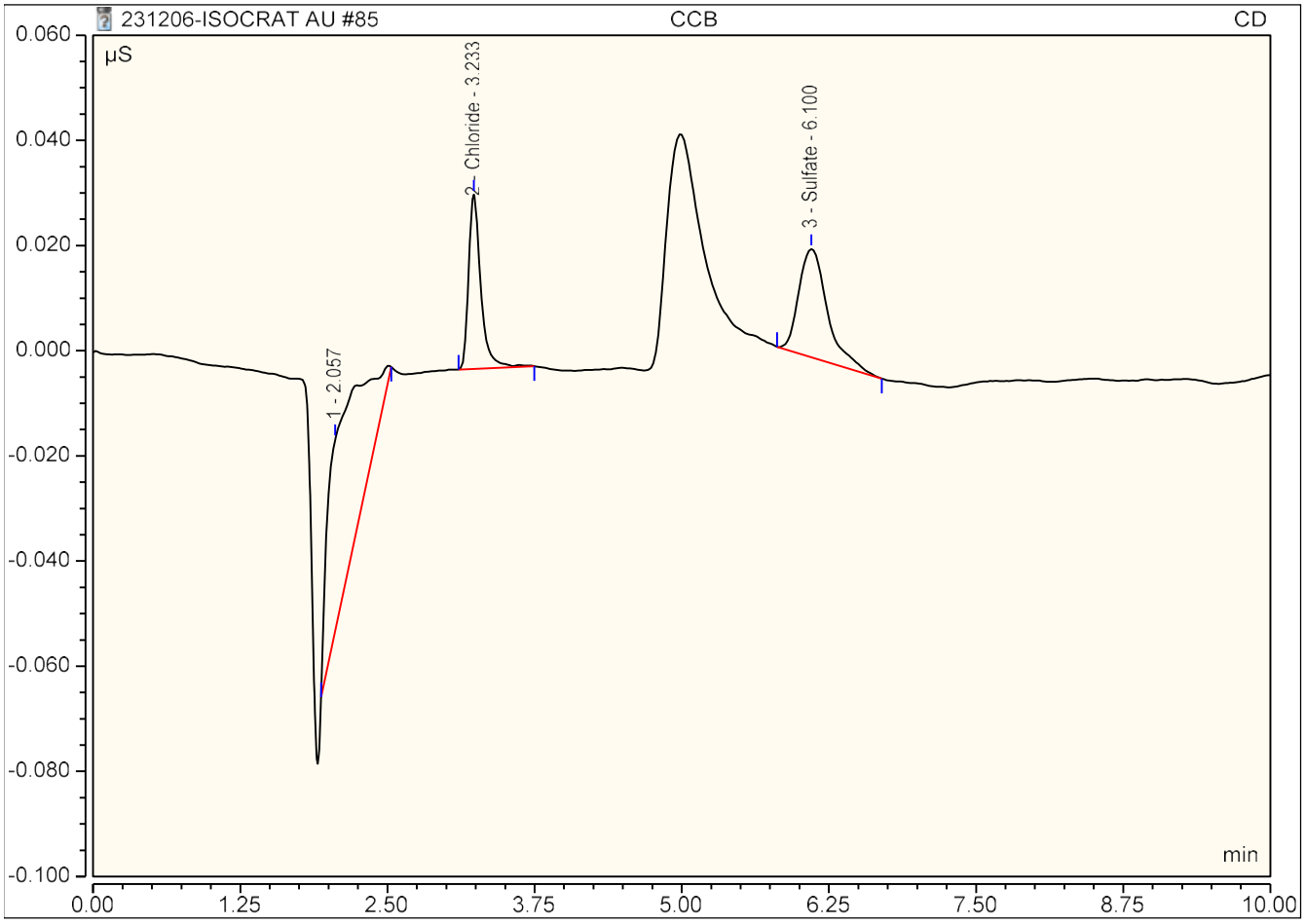
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.23	**Fluoride**	BMB	0.622	6.004	1.0337
3	3.23	**Chloride**	BMB	4.489	38.617	10.0465
4	5.43	**Bromide**	BMB*	0.129	0.800	1.0262
5	6.01	**Sulfate**	BM *	6.249	25.894	20.1565
6	6.42	**Nitrate**	MB*^	1.412	5.812	1.0564
TOTAL:				12.90	77.13	33.32



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 07:47**	*Run Time:*	**10.00**

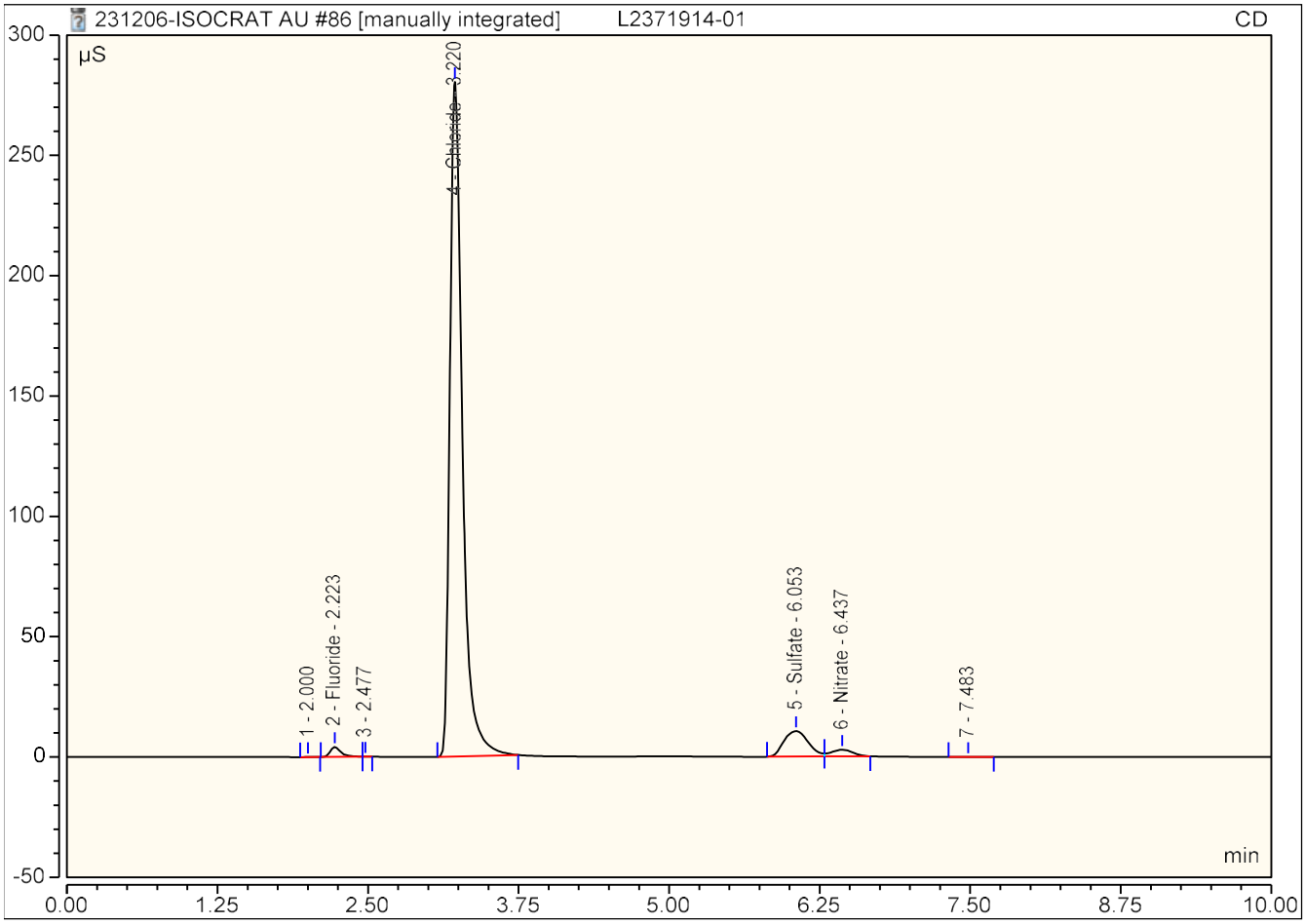
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.23	**Chloride**	BMB	0.004	0.033	0.1879
3	6.10	**Sulfate**	BMB	0.006	0.021	0.3070
TOTAL:				0.01	0.05	0.49



Peak Integration Report

Sample Name:	**L2371914-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 07:59**	*Run Time:*	**10.00**

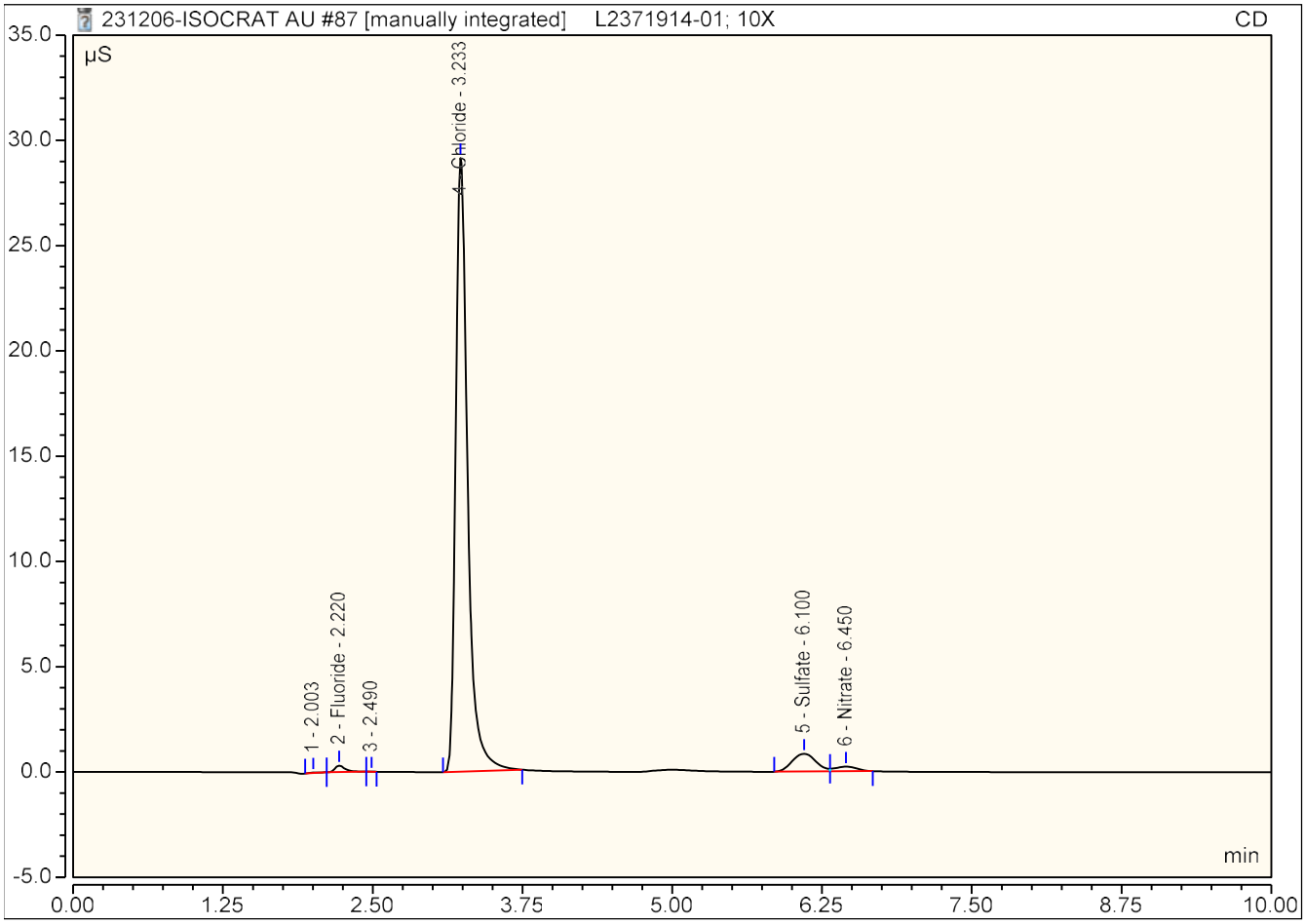
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.417	4.126	0.7090
4	3.22	**Chloride**	BMB	33.708	280.261	74.2711
5	6.05	**Sulfate**	BM *	2.485	10.651	8.1894
6	6.44	**Nitrate**	MB*	0.580	2.760	0.4850
TOTAL:				37.19	297.80	83.65



Peak Integration Report

Sample Name:	**L2371914-01; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 08:11**	*Run Time:*	**10.00**

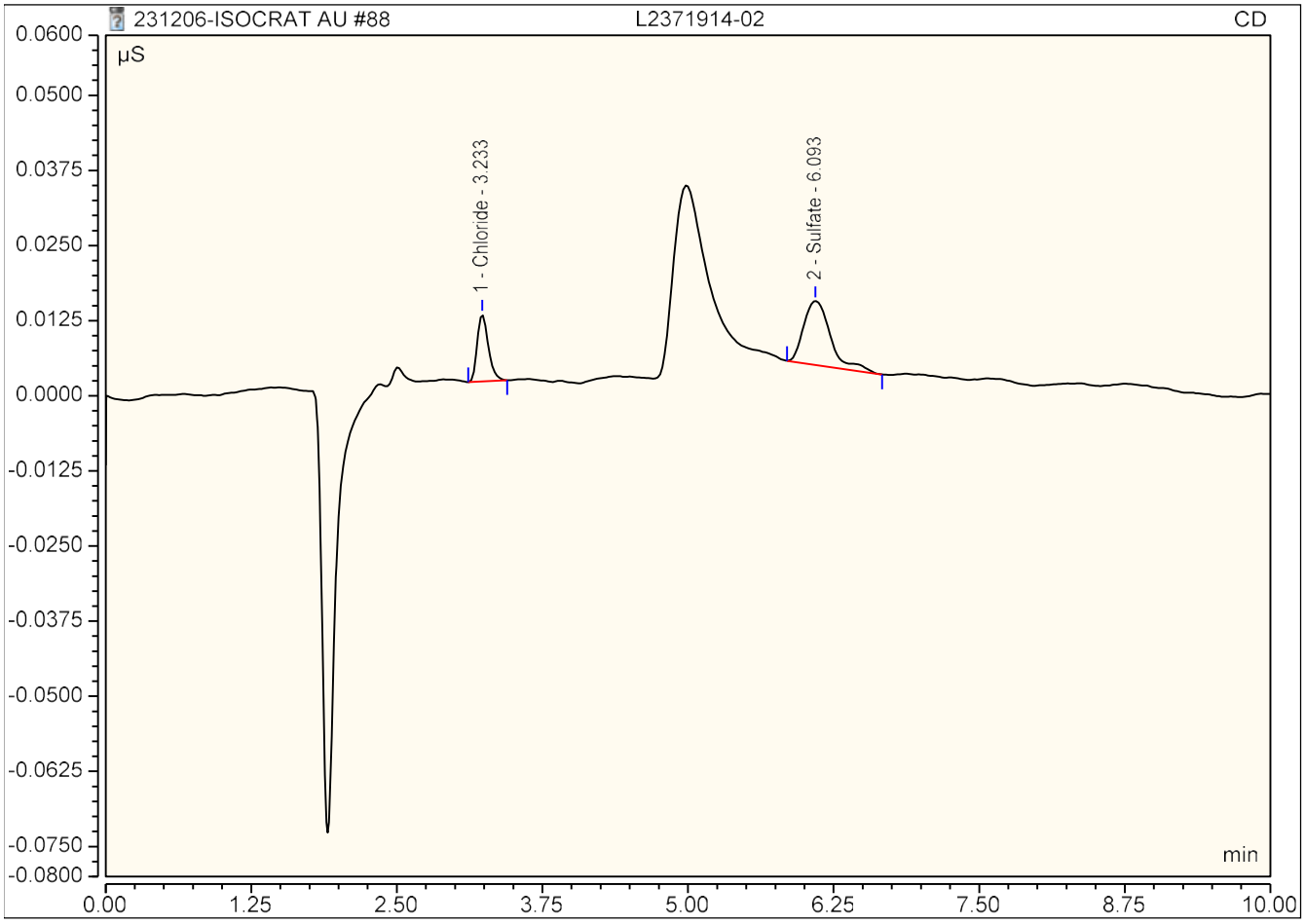
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.031	0.313	0.9689
4	3.23	**Chloride**	BMB	3.377	29.141	76.0227
5	6.10	**Sulfate**	BM *	0.195	0.843	9.0830
6	6.45	**Nitrate**	MB*	0.046	0.217	1.1781
TOTAL:				3.65	30.51	87.25



Peak Integration Report

Sample Name:	**L2371914-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 08:23**	*Run Time:*	**10.00**

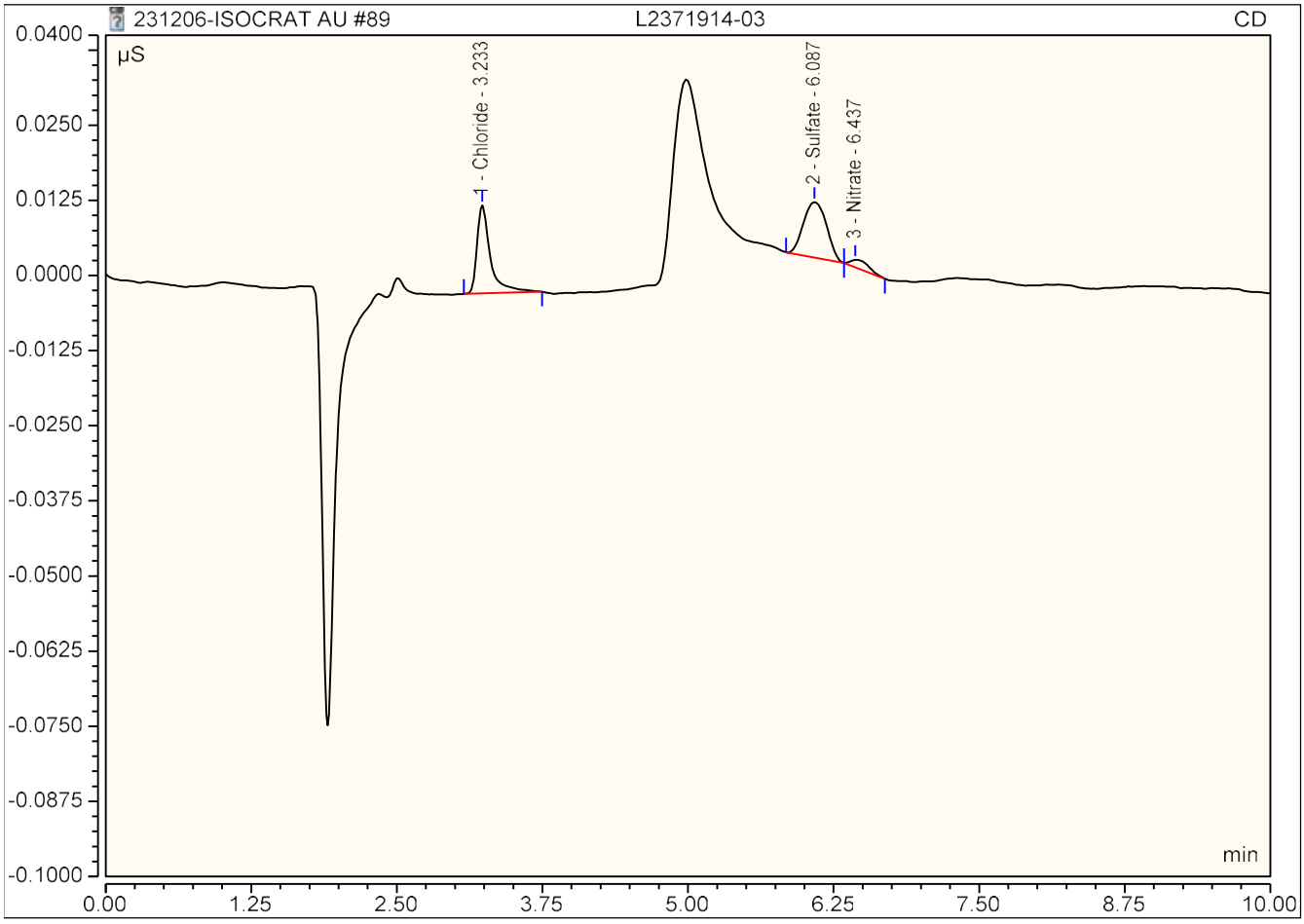
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.23	**Chloride**	BMB	0.001	0.011	0.1818
2	6.09	**Sulfate**	BMB	0.003	0.011	0.2976
TOTAL:				0.00	0.02	0.48



Peak Integration Report

Sample Name:	**L2371914-03**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 08:35**	*Run Time:*	**10.00**

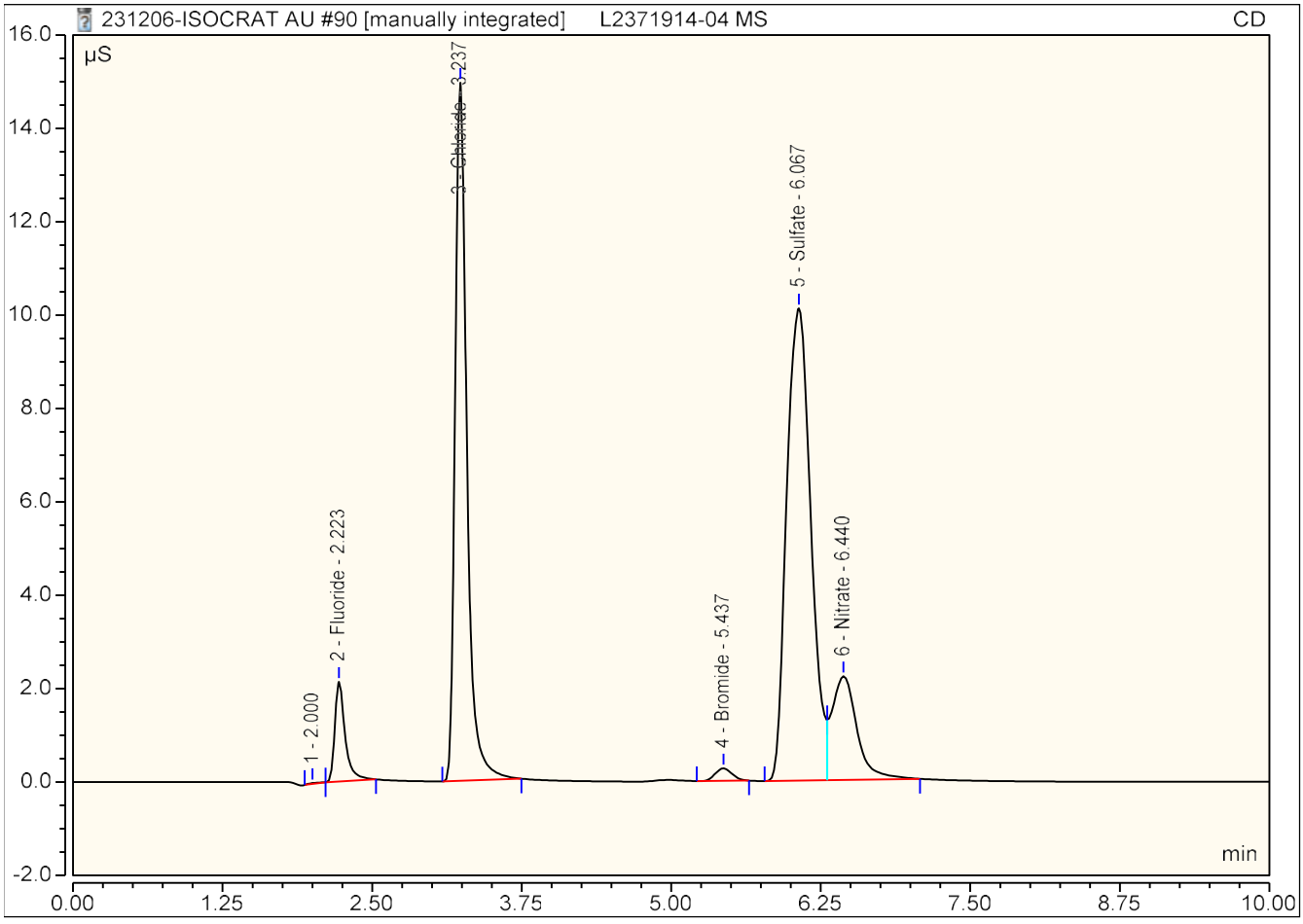
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.23	**Chloride**	BMB	0.002	0.015	0.1834
2	6.09	**Sulfate**	BMB	0.002	0.009	0.2953
3	6.44	**Nitrate**	BMB	0.000	0.001	0.0865
TOTAL:				0.00	0.03	0.57



Peak Integration Report

Sample Name:	**L2371914-04 MS**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 08:47**	*Run Time:*	**10.00**

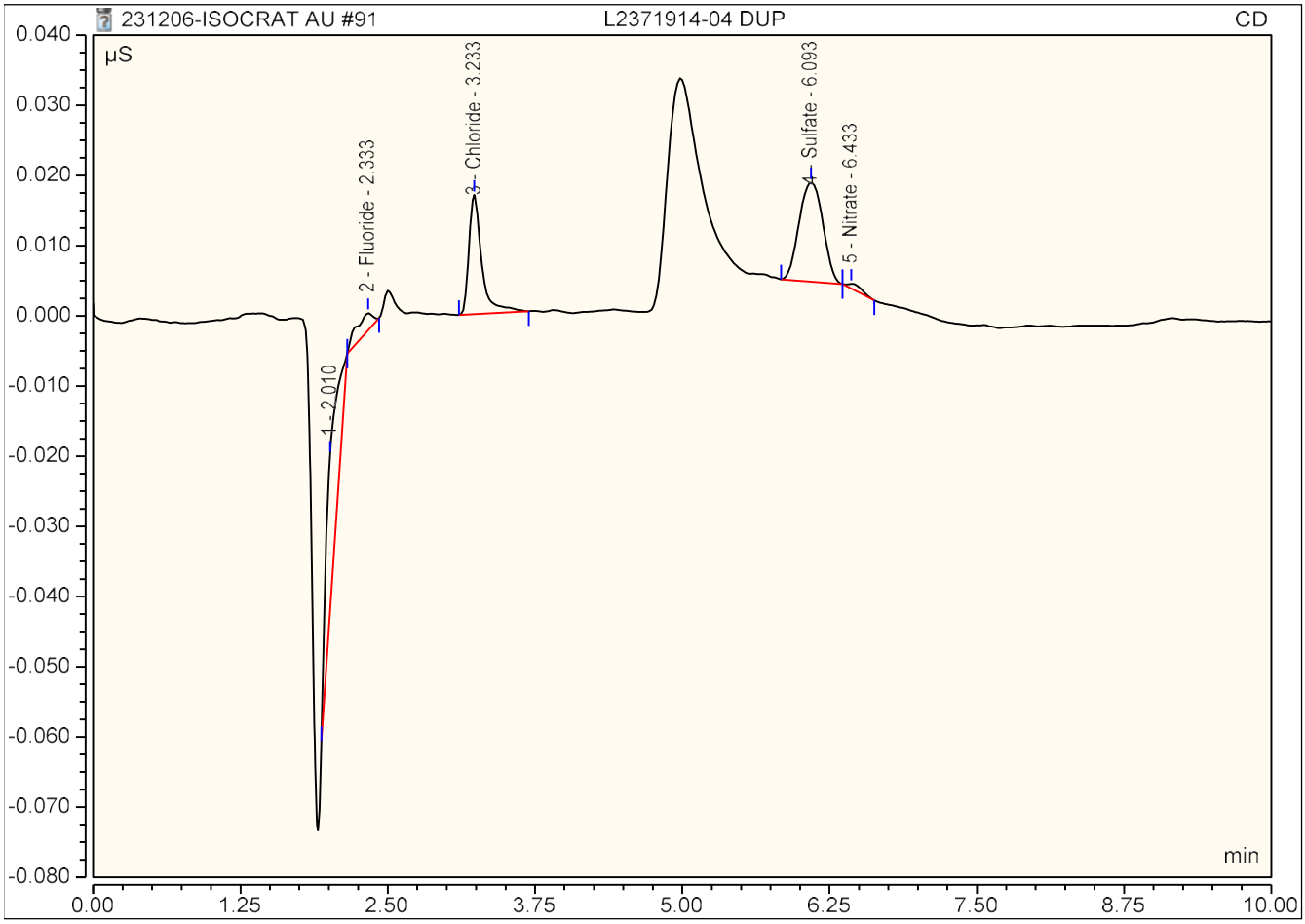
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.213	2.136	0.3859
3	3.24	**Chloride**	BMB	1.712	14.951	3.9430
4	5.44	**Bromide**	BMB*	0.044	0.267	0.3841
5	6.07	**Sulfate**	BM *	2.368	10.116	7.8177
6	6.44	**Nitrate**	MB*	0.540	2.223	0.4573
TOTAL:				4.88	29.69	12.99



Peak Integration Report

Sample Name:	**L2371914-04 DUP**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 08:59**	*Run Time:*	**10.00**

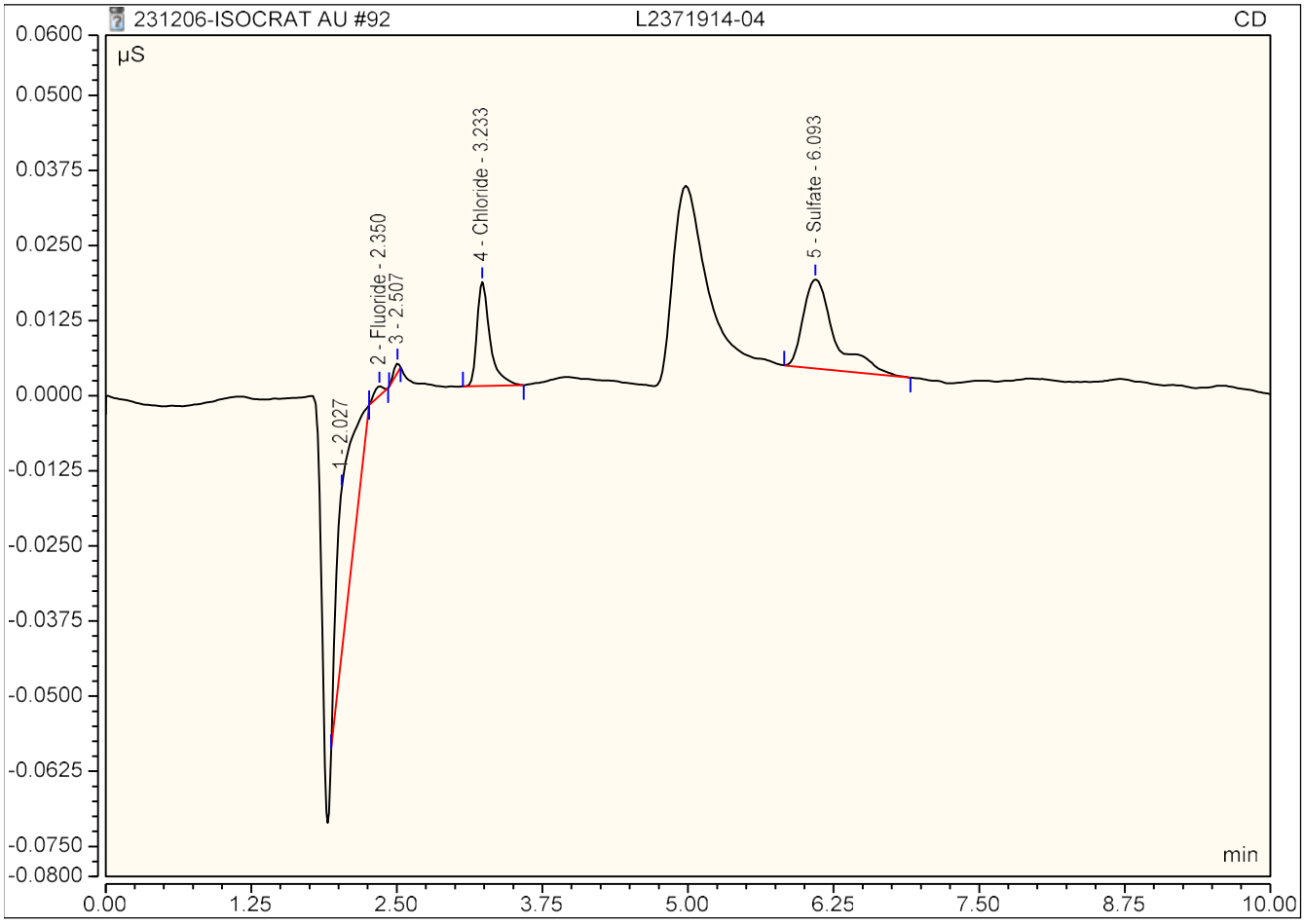
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.33	**Fluoride**	BMB	0.000	0.002	0.0482
3	3.23	**Chloride**	BMB	0.002	0.017	0.1838
4	6.09	**Sulfate**	BMB	0.003	0.014	0.2990
5	6.43	**Nitrate**	BMB	0.000	0.001	0.0864
TOTAL:				0.01	0.03	0.62



Peak Integration Report

Sample Name:	**L2371914-04**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 09:12**	*Run Time:*	**10.00**

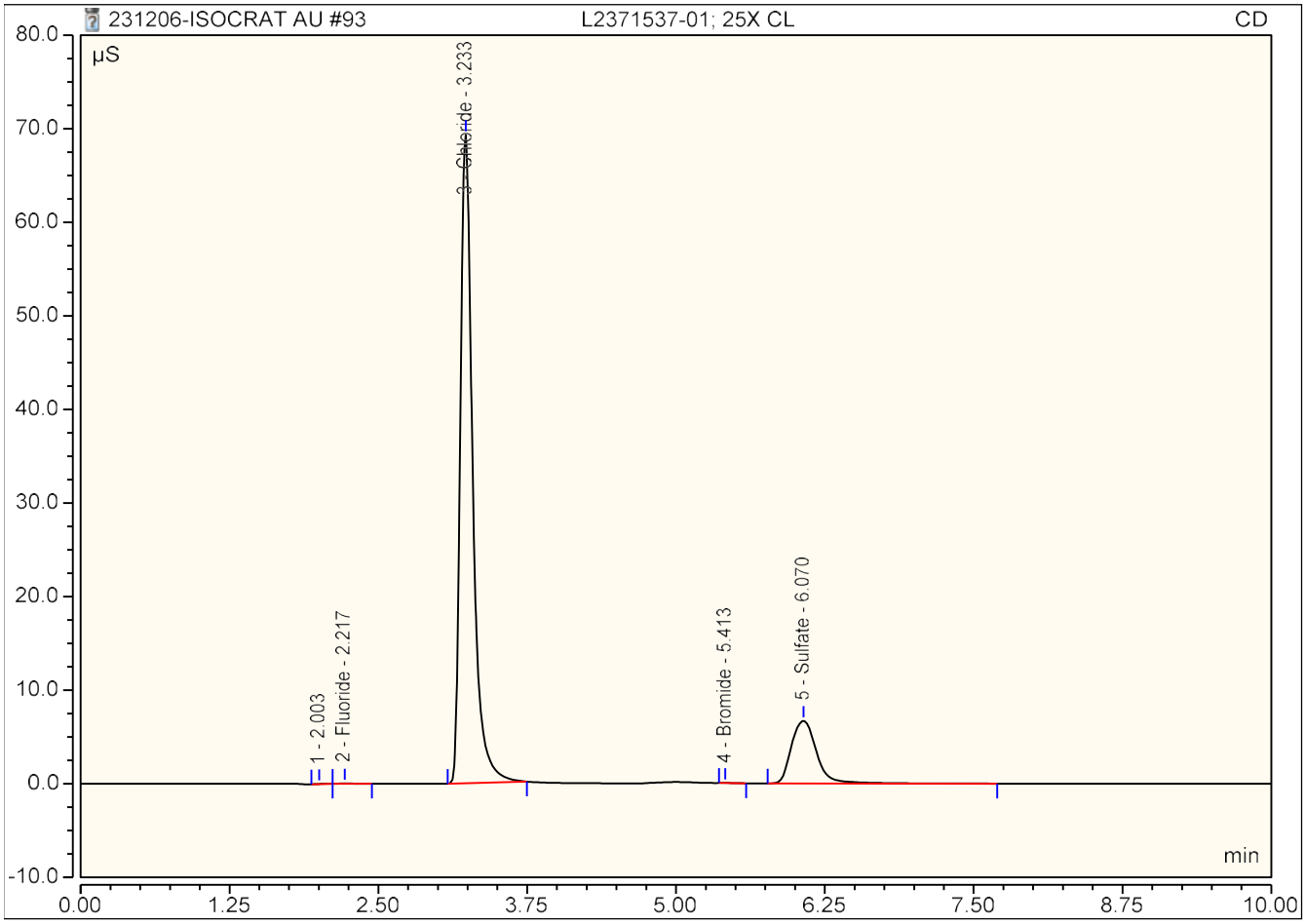
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.35	**Fluoride**	BMB	0.000	0.002	0.0477
4	3.23	**Chloride**	BMB	0.002	0.017	0.1840
5	6.09	**Sulfate**	BMB	0.005	0.015	0.3033
TOTAL:				0.01	0.03	0.54



Peak Integration Report

Sample Name:	**L2371537-01; 25X CL**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 09:24**	*Run Time:*	**10.00**

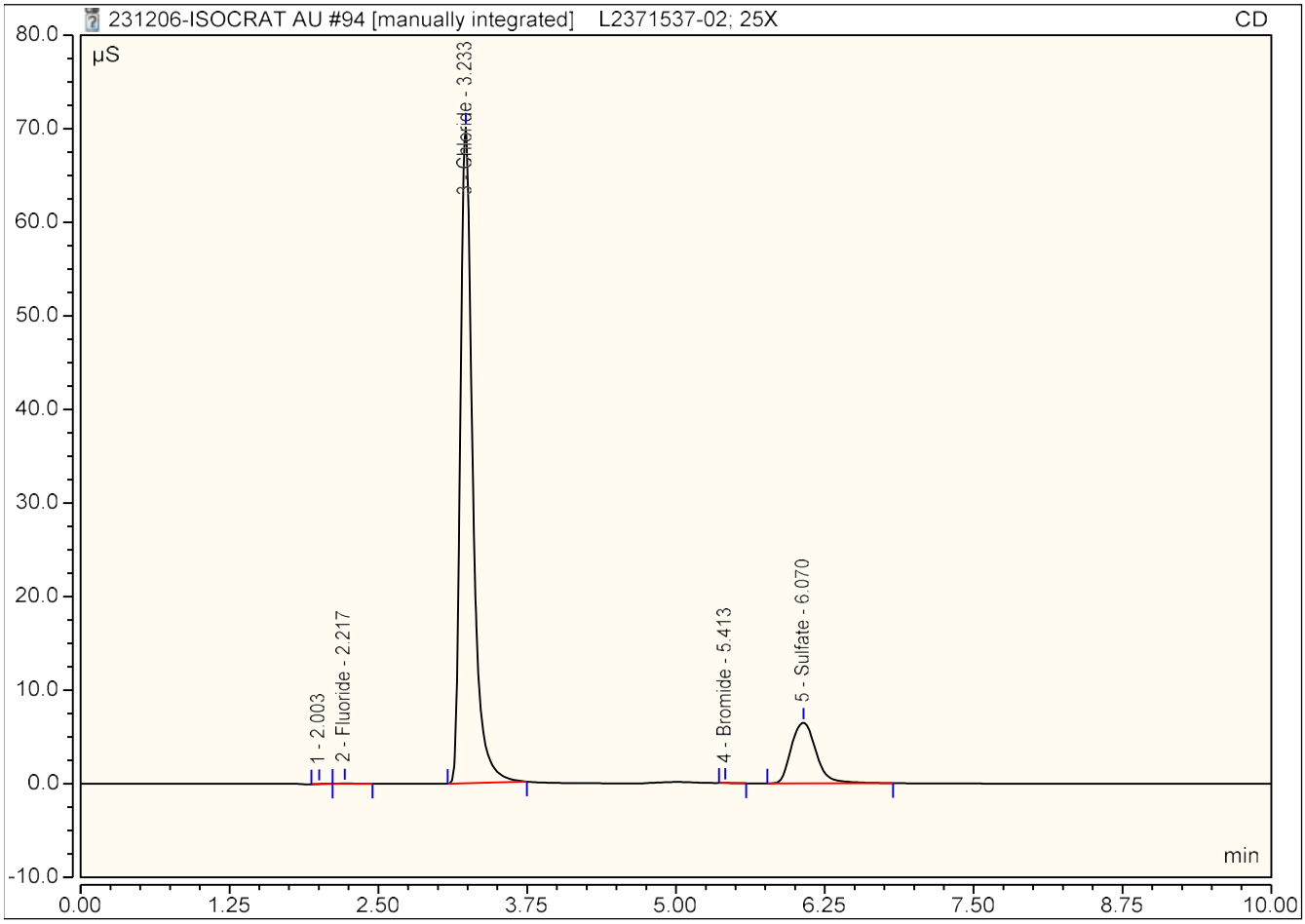
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.005	0.044	1.3822
3	3.23	**Chloride**	BMB	8.341	69.283	462.8320
4	5.41	**Bromide**	BMB	0.002	0.012	1.6731
5	6.07	**Sulfate**	BMB	1.647	6.692	138.1057
TOTAL:				9.99	76.03	603.99



Peak Integration Report

Sample Name:	**L2371537-02; 25X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**25.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 09:36**	*Run Time:*	**10.00**

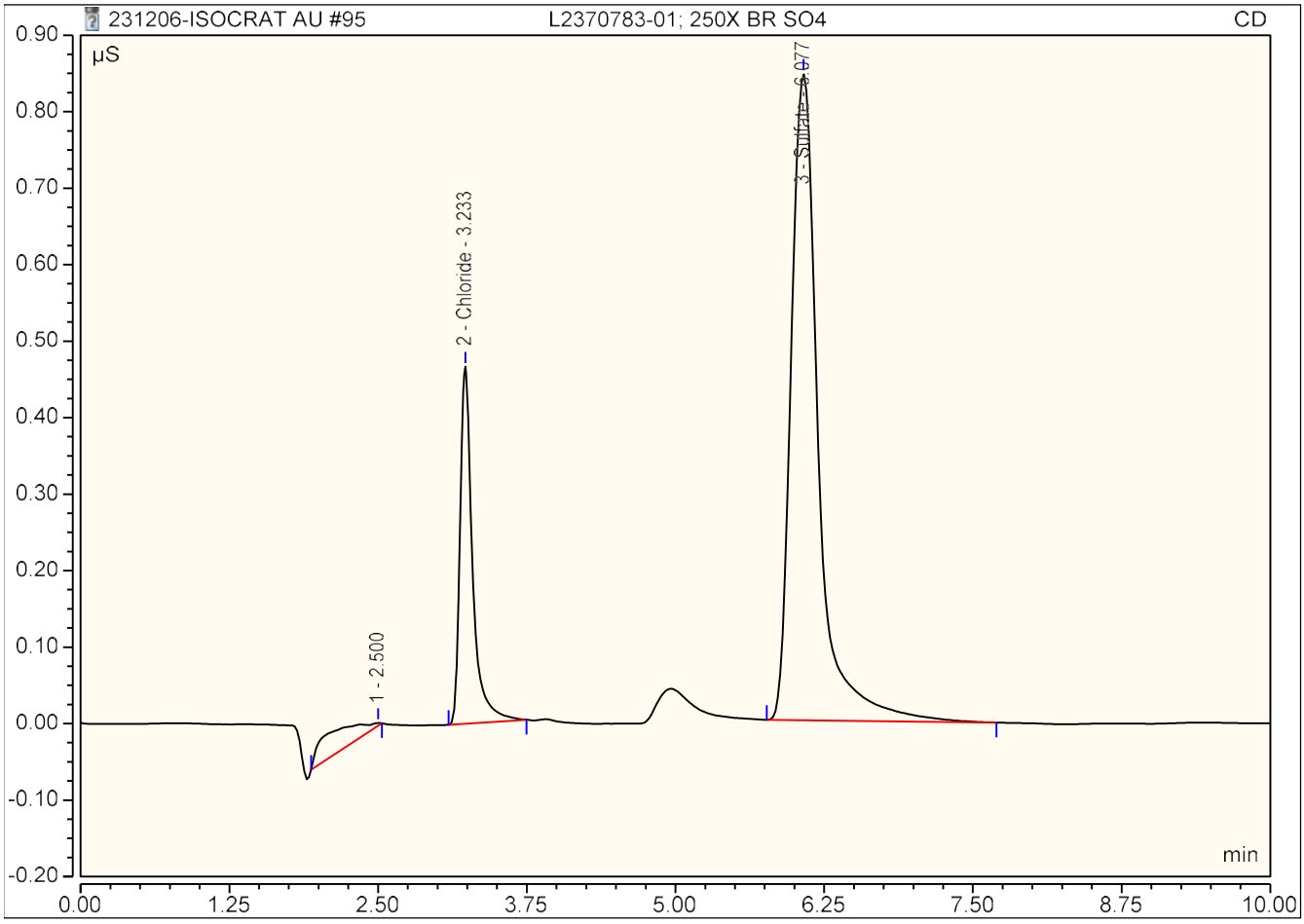
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.005	0.045	1.3838
3	3.23	**Chloride**	BMB	8.450	70.074	468.8140
4	5.41	**Bromide**	BMB	0.002	0.012	1.6830
5	6.07	**Sulfate**	BMB*	1.565	6.472	131.6359
TOTAL:				10.02	76.60	603.52



Peak Integration Report

Sample Name:	**L2370783-01; 250X BR SO4**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**250.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 09:48**	*Run Time:*	**10.00**

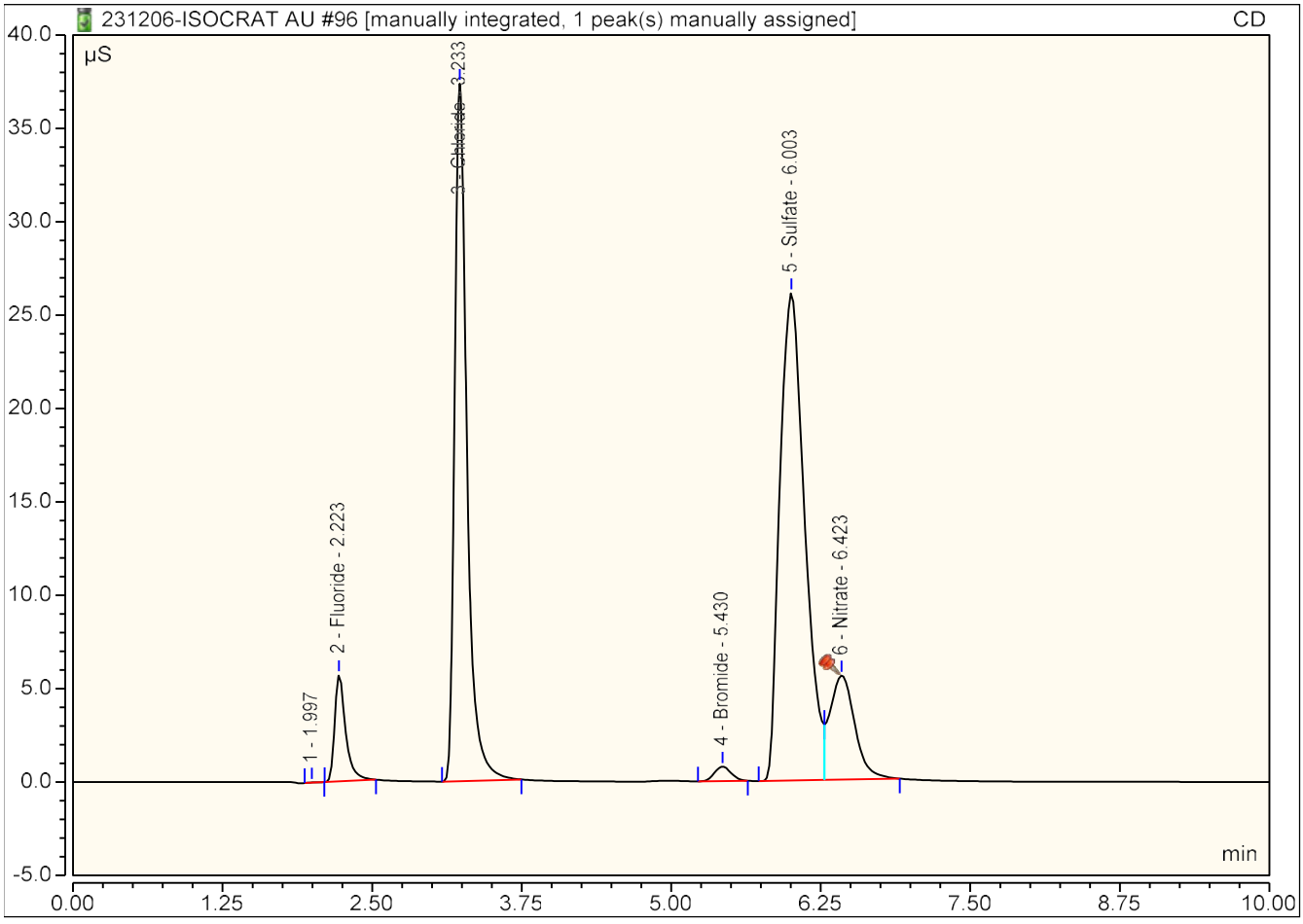
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.23	**Chloride**	BMB	0.057	0.467	76.0277
3	6.08	**Sulfate**	BMB	0.224	0.845	250.3928
TOTAL:				0.28	1.31	326.42



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 10:00**	*Run Time:*	**10.00**

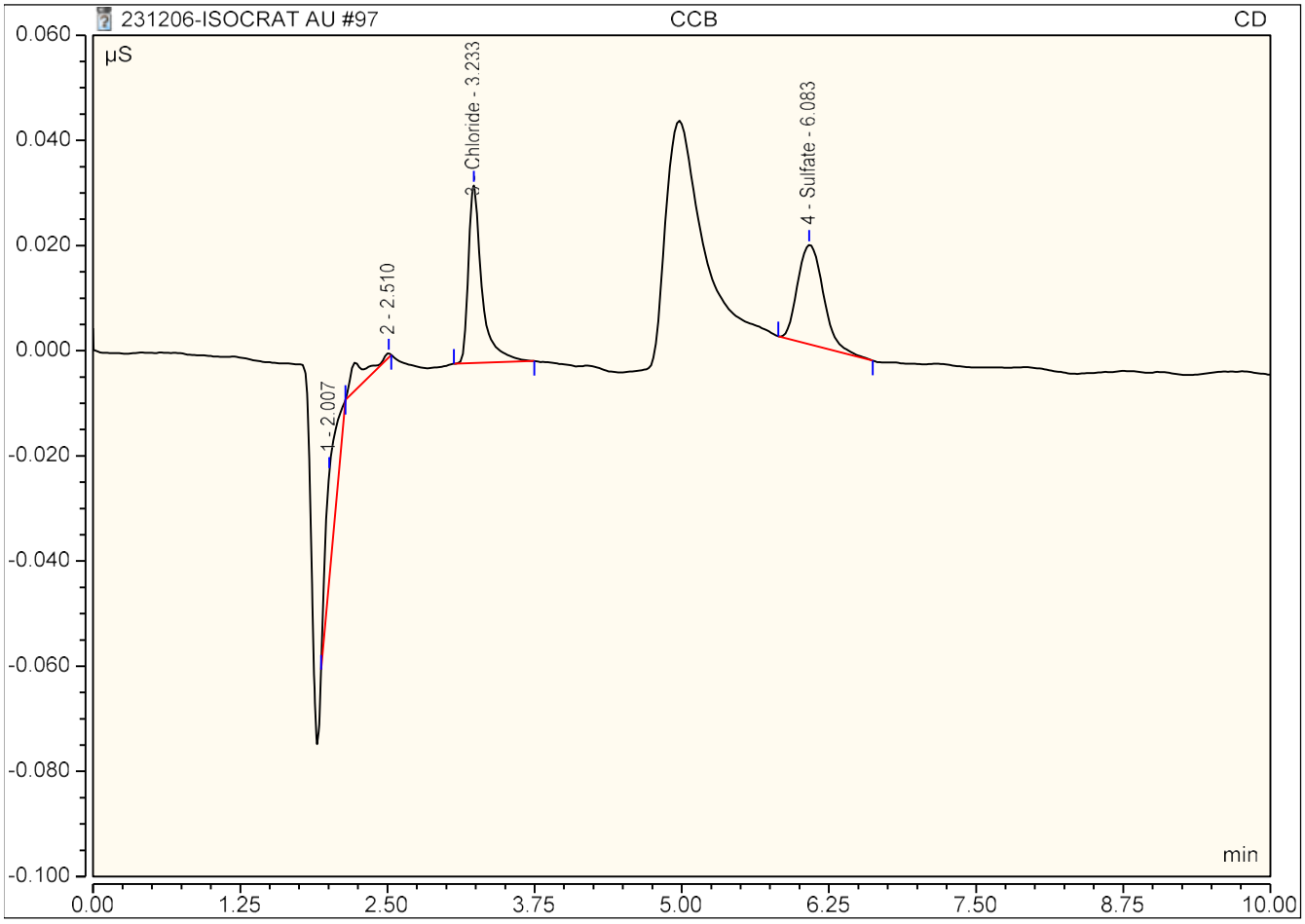
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.608	5.708	1.0111
3	3.23	**Chloride**	BMB	4.484	37.348	10.0356
4	5.43	**Bromide**	BMB*	0.125	0.775	0.9989
5	6.00	**Sulfate**	BM *	6.279	26.104	20.2519
6	6.42	**Nitrate**	MB*^	1.350	5.585	1.0139
TOTAL:				12.85	75.52	33.31



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 10:12**	*Run Time:*	**10.00**

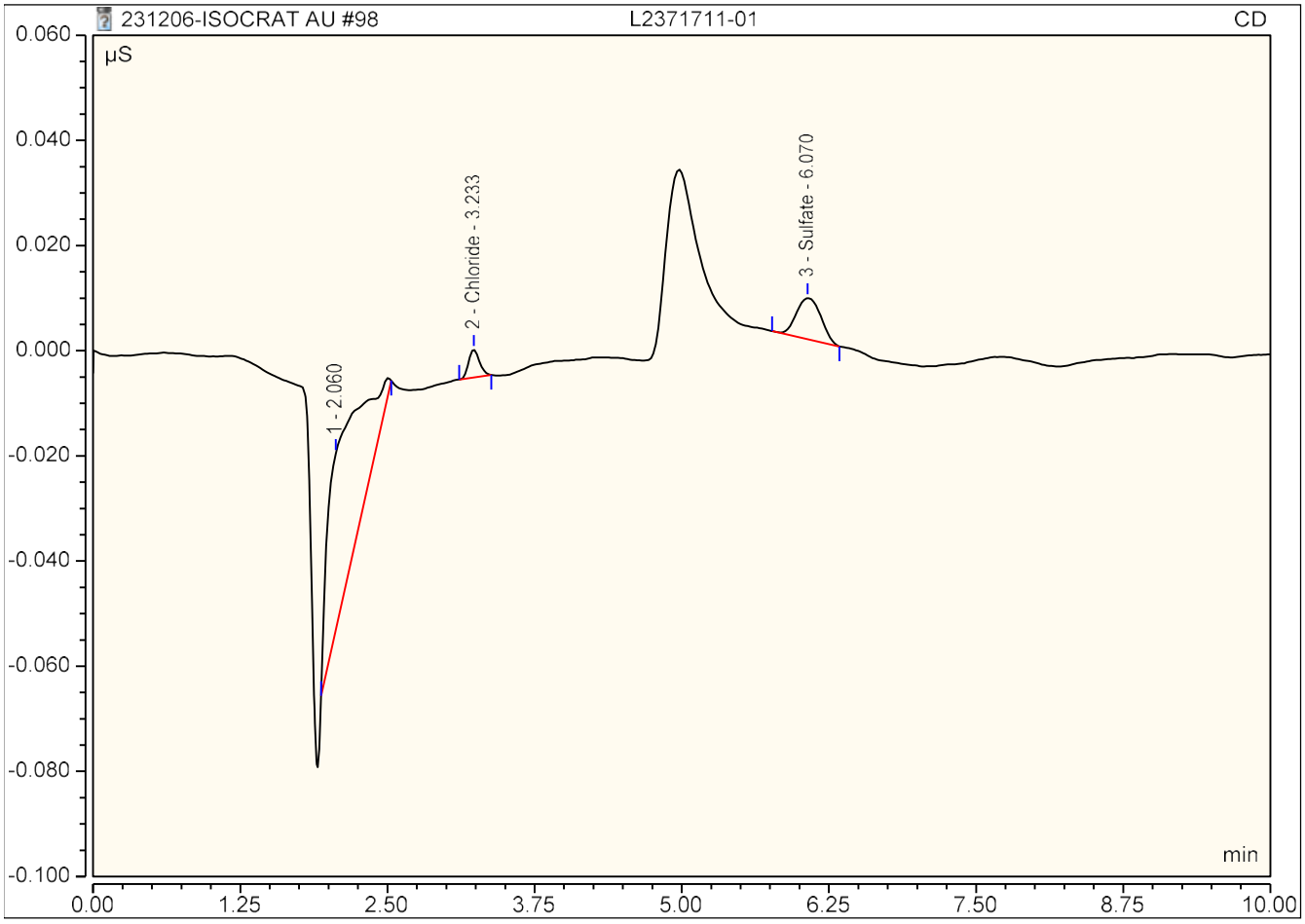
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
3	3.23	**Chloride**	BMB	0.005	0.034	0.1890
4	6.08	**Sulfate**	BMB	0.005	0.019	0.3038
TOTAL:				0.01	0.05	0.49



Peak Integration Report

Sample Name:	**L2371711-01**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 10:24**	*Run Time:*	**10.00**

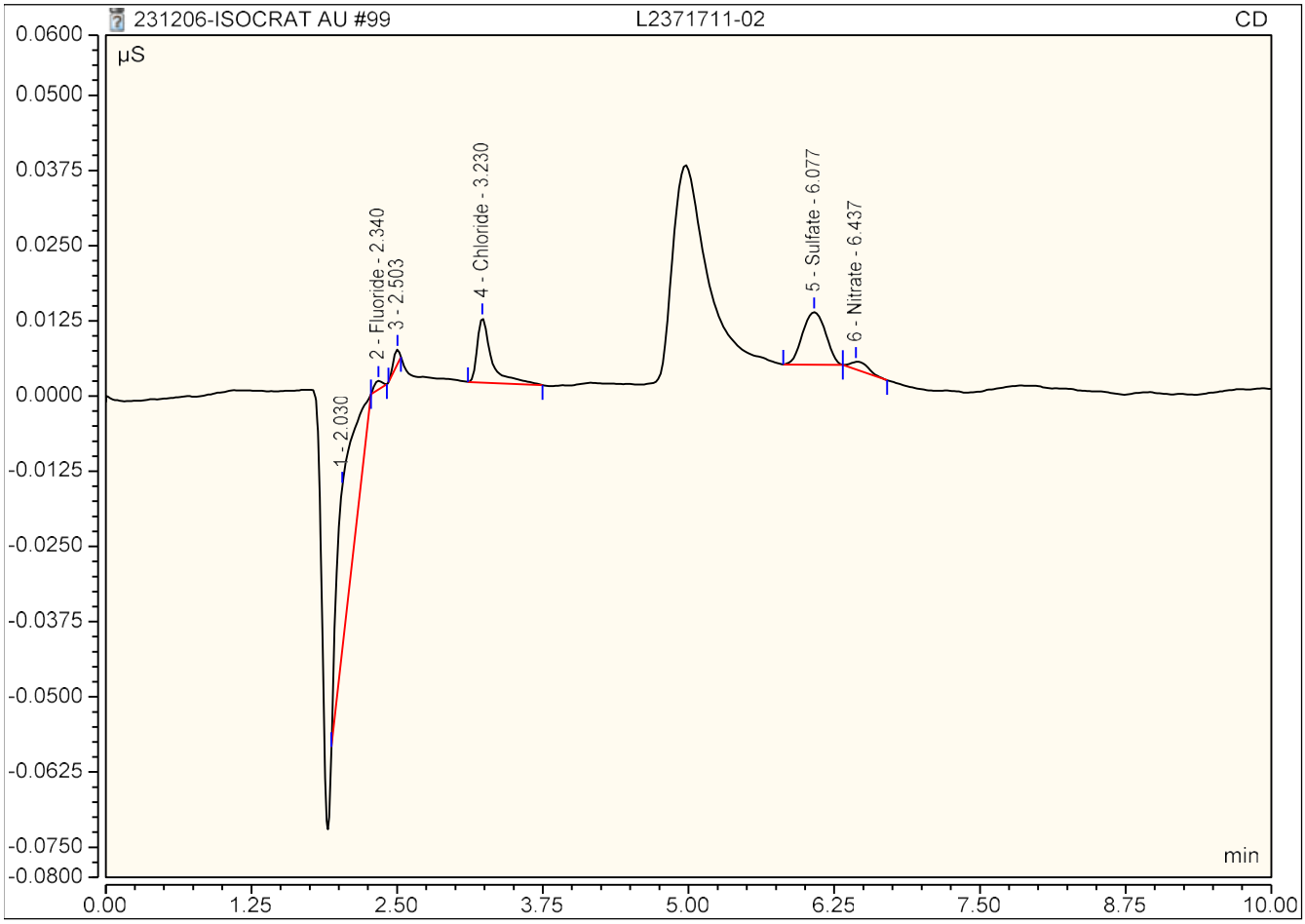
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.23	**Chloride**	BMB	0.001	0.005	0.1804
3	6.07	**Sulfate**	BMB	0.002	0.008	0.2946
TOTAL:				0.00	0.01	0.47



Peak Integration Report

Sample Name:	**L2371711-02**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 10:36**	*Run Time:*	**10.00**

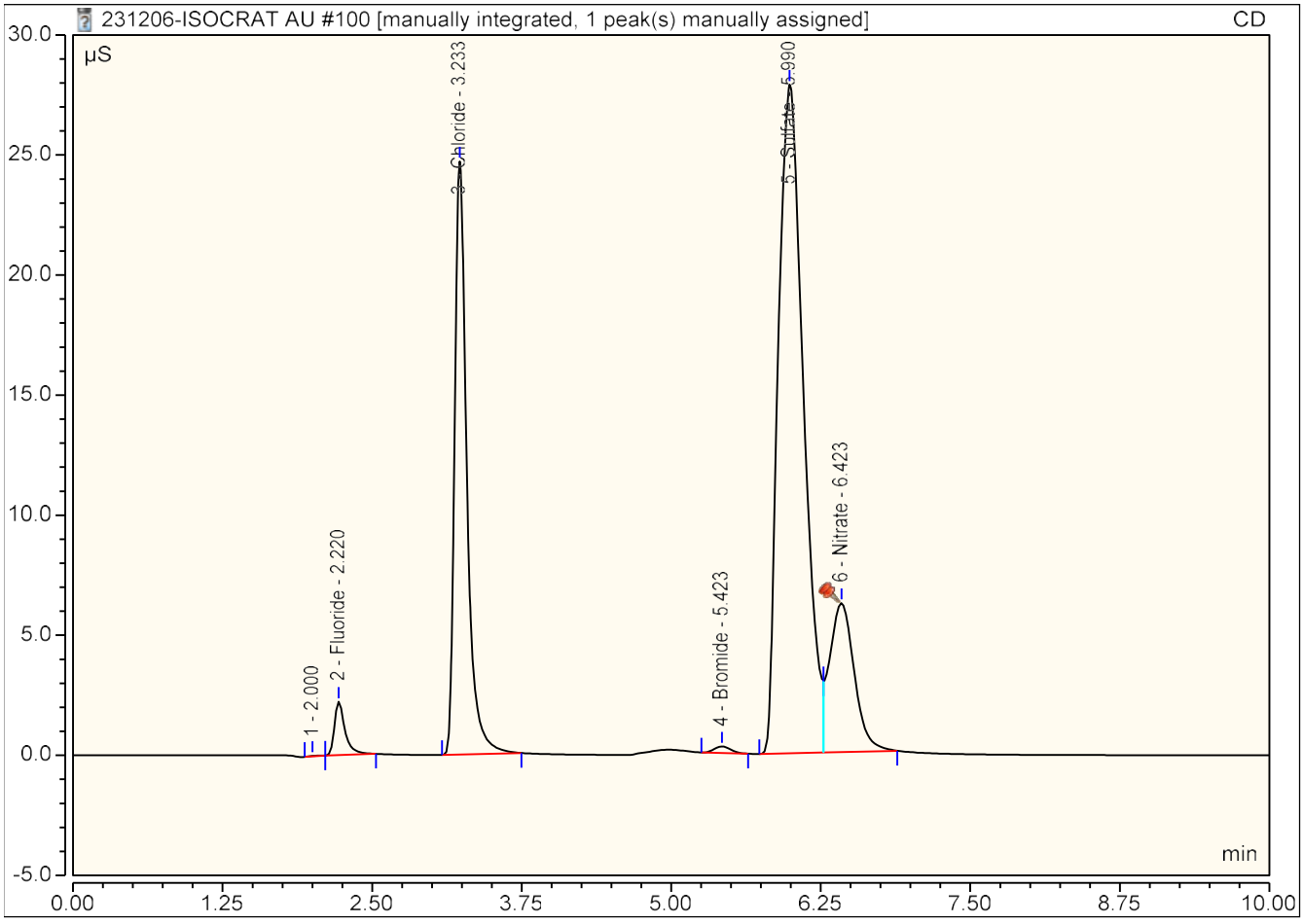
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.34	**Fluoride**	BMB	0.000	0.001	0.0477
4	3.23	**Chloride**	BMB	0.002	0.011	0.1825
5	6.08	**Sulfate**	BMB	0.002	0.009	0.2949
6	6.44	**Nitrate**	BMB	0.000	0.001	0.0865
TOTAL:				0.00	0.02	0.61



Peak Integration Report

Sample Name:	**L2370783-07 MS; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 10:48**	*Run Time:*	**10.00**

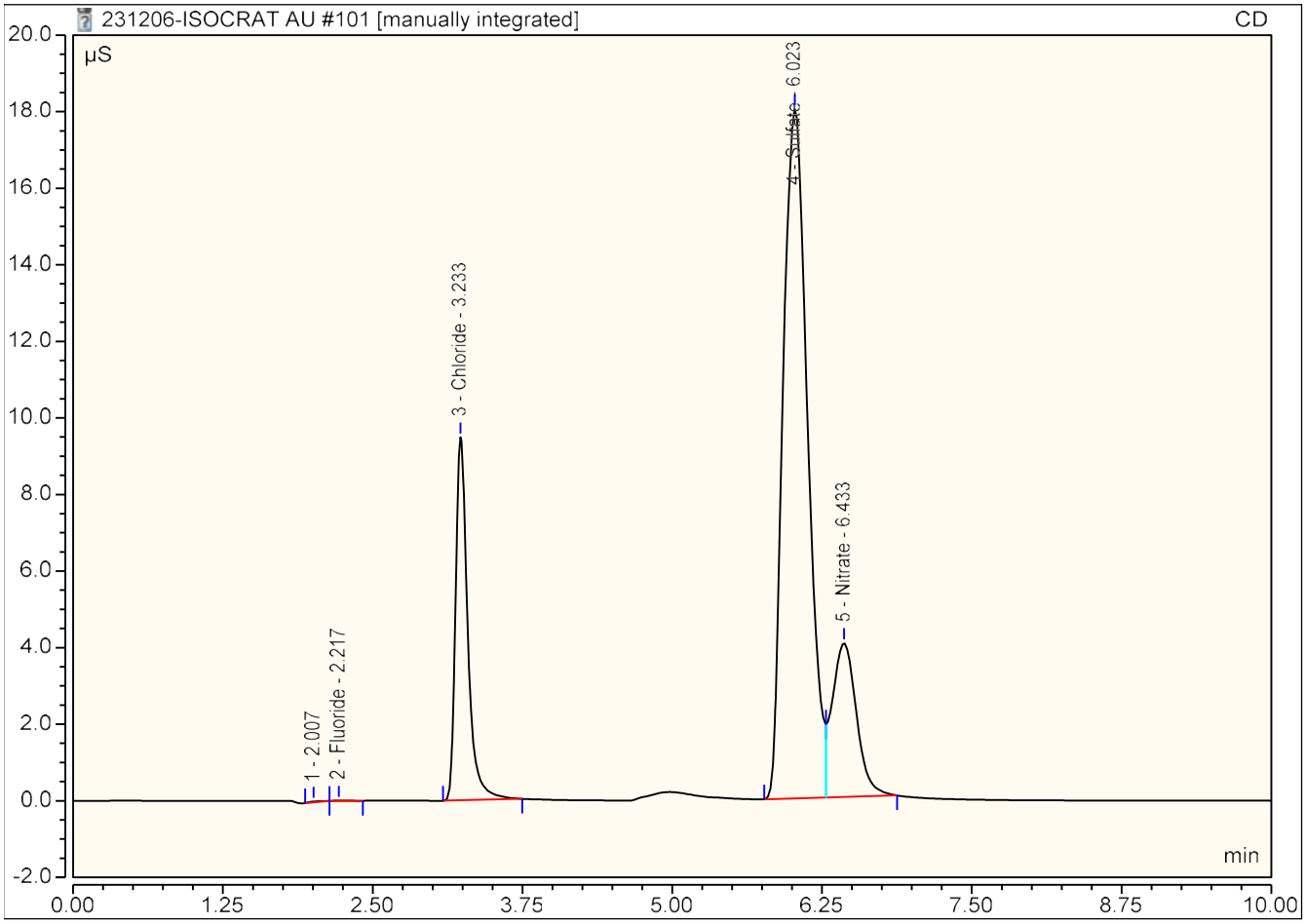
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.229	2.216	4.1033
3	3.23	**Chloride**	BMB	2.933	24.700	66.2541
4	5.42	**Bromide**	BMB*	0.044	0.272	3.8630
5	5.99	**Sulfate**	BM *	6.769	27.847	218.1065
6	6.42	**Nitrate**	MB*^	1.487	6.210	11.0814
TOTAL:				11.46	61.25	303.41



Peak Integration Report

Sample Name:	**L2370783-07 DUP; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 11:00**	*Run Time:*	**10.00**

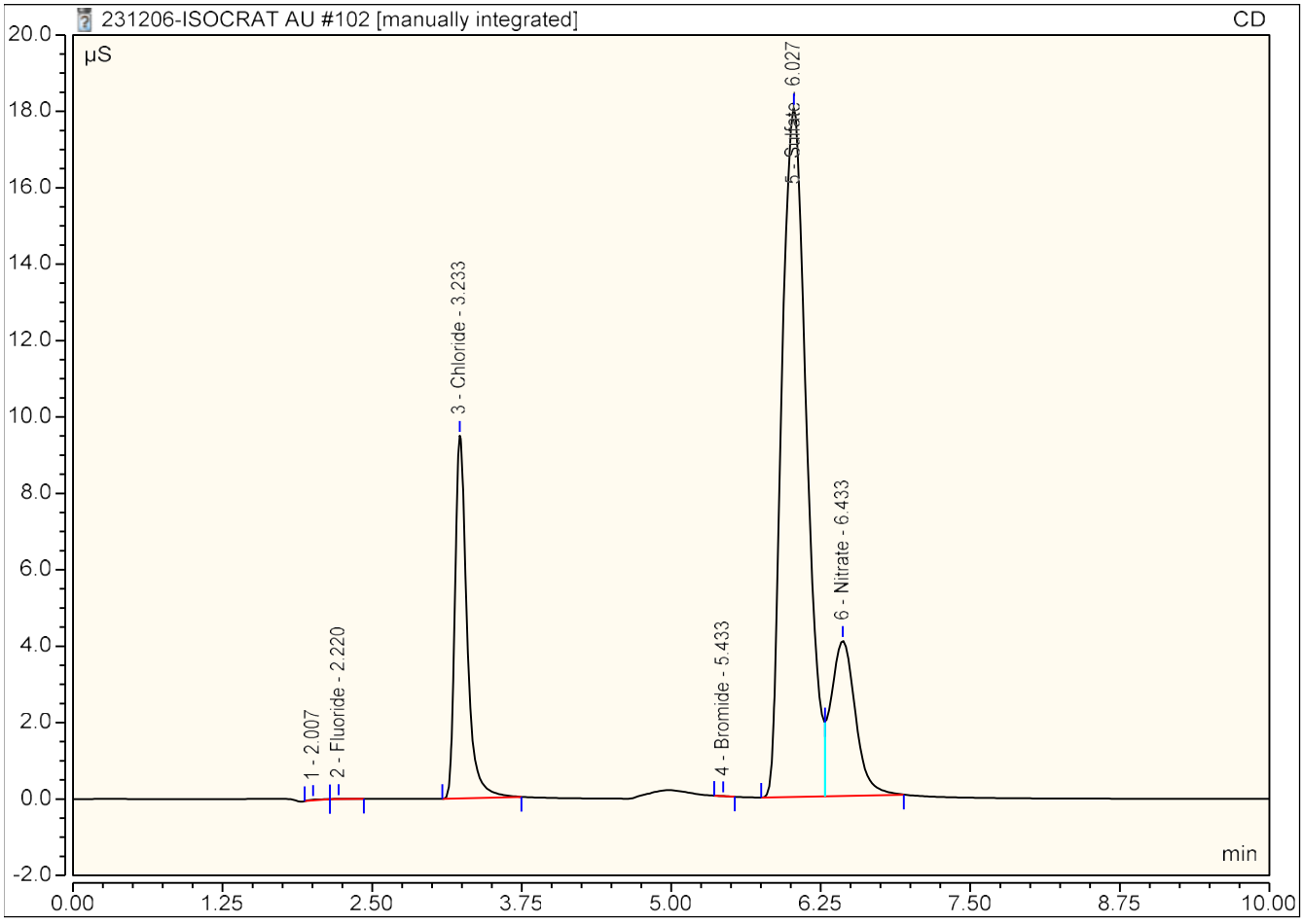
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.001	0.009	0.4918
3	3.23	**Chloride**	BMB	1.117	9.486	26.3358
4	6.02	**Sulfate**	BM *	4.268	18.003	138.5914
5	6.43	**Nitrate**	MB*	0.947	4.023	7.3723
TOTAL:				6.33	31.52	172.79



Peak Integration Report

Sample Name:	**L2370783-07; 10X**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 11:12**	*Run Time:*	**10.00**

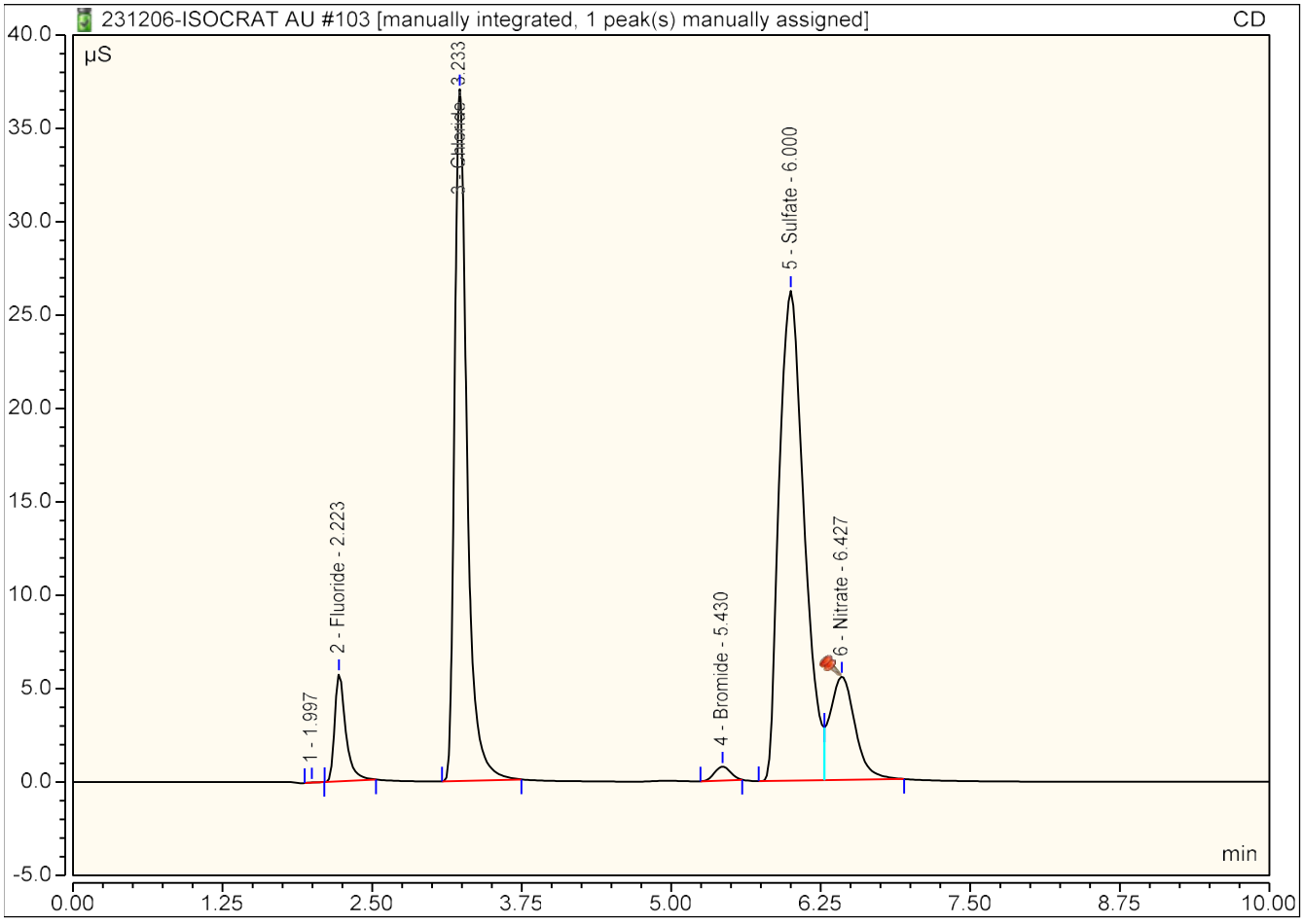
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.001	0.007	0.4890
3	3.23	**Chloride**	BMB	1.119	9.500	26.3962
4	5.43	**Bromide**	BMB	0.000	0.002	0.5538
5	6.03	**Sulfate**	BM *	4.297	18.024	139.5114
6	6.43	**Nitrate**	MB*	0.962	4.063	7.4756
TOTAL:				6.38	31.60	174.43



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**25.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 11:24**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.22	**Fluoride**	BMB	0.617	5.747	1.0251
3	3.23	**Chloride**	BMB	4.490	37.038	10.0484
4	5.43	**Bromide**	BMB*	0.116	0.746	0.9279
5	6.00	**Sulfate**	BM *	6.331	26.230	20.4169
6	6.43	**Nitrate**	MB*^	1.347	5.539	1.0120
TOTAL:				12.90	75.30	33.43



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**25.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**Anions_050420_ThermoFisher**	*Operator:*	**IC 4**
Inj. Date / Time:	**07-Dec-2023 / 11:37**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.23	**Chloride**	BMB	0.004	0.032	0.1876
3	6.08	**Sulfate**	BMB	0.005	0.019	0.3043
TOTAL:				0.01	0.05	0.49

Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	0.0499	0.1978	n.a.	0.2930	n.a.
2	STD 0.5	1.0	0.0646	0.3853	0.1062	0.6290	0.0697
3	STD 1.0	1.0	0.0808	0.6248	0.1253	1.0529	0.0849
4	STD 2.0	1.0	0.1920	2.0081	0.1368	4.0400	0.1886
5	STD 3.0	1.0	0.4601	4.9912	0.4633	10.0526	0.4094
6	STD 4.0	1.0	1.9562	19.5699	1.8972	39.5560	2.0224
7	STD 5.0	1.0	5.0213	50.1707	5.0462	100.1696	5.8291
8	RINSE	1.0	n.a.	0.1920	n.a.	n.a.	n.a.
9	CCV	1.0	1.0114	9.9473	1.0151	20.4998	0.9803
10	CCB	1.0	0.0480	0.1871	n.a.	0.2980	n.a.
11	ICV	1.0	0.7857	8.0943	0.7513	8.1188	0.7852
12	ICB	1.0	0.0483	0.1868	n.a.	0.2962	n.a.
13	BLK	1.0	0.0482	0.1900	n.a.	0.2922	n.a.
14	LCS	1.0	0.7805	8.0890	0.7568	8.1461	0.8037
15	L2371097-01 CL SO4 BR	1.0	0.0764	60.0915	0.1195	11.7459	0.0813
16	L2371097-01; 10X	10.0	0.5134	68.0652	n.a.	14.0771	n.a.
17	L2371097-02	1.0	0.1014	63.7089	n.a.	6.6695	0.0662
18	L2371097-02; 10X	10.0	0.5312	69.5314	n.a.	7.9485	n.a.
19	L2371097-03	1.0	0.0918	71.2460	n.a.	2.0233	0.0712
20	L2371097-03; 10X	10.0	0.5187	77.4211	n.a.	4.3555	n.a.
21	CCV	1.0	1.0116	9.9539	1.0209	20.5390	0.9524
22	CCB	1.0	n.a.	0.1872	n.a.	0.2971	n.a.
23	L2371097-05 MS	1.0	0.4340	5.2410	1.4827	14.1031	0.3245
24	L2371097-05 DUP	1.0	0.0759	1.3622	1.1296	6.1400	n.a.
25	L2371097-05	1.0	0.0757	1.3617	1.1252	6.1372	n.a.
26	L2371097-04	1.0	0.0581	31.9515	n.a.	7.2232	0.0611
27	L2371097-06	1.0	0.0667	244.1344	10.8302	11.5430	0.1403
28	L2371097-06; 10X	10.0	0.4980	270.0517	10.1203	11.1095	0.5698
29	XL2371537-01; 10X CL	10.0	0.7828	649.2959	n.a.	188.8516	0.9757
30	XL2371537-02; 10X	10.0	0.7685	661.6213	n.a.	183.5655	0.9903
31	L2371679-01; 25X CL	25.0	1.2475	524.1456	n.a.	512.1566	1.6338
32	L2371679-02; 25X	25.0	1.2784	499.6993	n.a.	434.5168	1.5814
33	CCV	1.0	1.0087	9.9922	0.9830	20.5643	0.9727
34	CCB	1.0	n.a.	0.1877	n.a.	0.2971	n.a.
35	BLK-2	1.0	n.a.	0.1904	n.a.	0.2941	n.a.
36	LCS-2	1.0	0.7836	8.1236	0.7525	8.1699	0.7888
37	L2371776-01 MS	1.0	0.3816	9.6267	0.4835	32.8222	0.3585
38	L2371776-01 DUP	1.0	0.0549	6.0345	n.a.	26.3056	0.0582
39	L2371776-01	1.0	0.0541	6.0211	n.a.	26.2228	0.0581
40	L2371776-02	1.0	0.1016	12.1423	n.a.	18.8745	0.0597
41	XL2371776-02; 10X	10.0	0.5346	12.8376	n.a.	19.6285	n.a.
42	L2371776-03	1.0	0.0572	26.6825	n.a.	57.1767	0.0594
43	XL2371776-03; 10X	10.0	0.4921	27.8717	n.a.	58.5094	n.a.
44	CCV	1.0	1.0064	10.0092	0.9652	20.6839	0.9932
45	CCB	1.0	0.0490	0.1876	n.a.	0.3036	n.a.

46	L2371776-04	1.0	0.2623	218.2100	n.a.	36.5029	0.5070
47	L2371776-04; 10X	10.0	0.6602	226.1246	n.a.	37.2149	1.0775
48	L2371776-05	1.0	0.1160	102.0398	n.a.	36.8357	0.2088
49	L2371776-05; 10X	10.0	0.5490	105.6368	n.a.	37.8533	0.7142
50	L2371776-06	1.0	0.1455	71.1292	n.a.	58.2086	0.1154
51	L2371776-06; 10X	10.0	0.5730	75.0523	n.a.	61.1171	0.6230
52	L2371776-07	1.0	0.1008	12.0942	n.a.	18.8154	0.0598
53	XL2371776-07; 10X	10.0	0.5344	12.9911	n.a.	19.9838	n.a.
54	CCV	1.0	1.0129	10.0135	0.9574	20.6219	0.9595
55	CCB	1.0	n.a.	0.1889	n.a.	0.3001	n.a.
56	L2370886-01 MS F	1.0	0.7031	86.5197	n.a.	n.a.	0.9189
57	L2370886-01 DUP	1.0	0.3385	85.8790	n.a.	n.a.	1.0408
58	L2370886-01	1.0	0.3365	86.4253	n.a.	n.a.	0.7189
59	L2370886-02	1.0	0.0830	176.8642	n.a.	n.a.	0.0657
60	L2370886-03	1.0	0.1623	34.9371	n.a.	164.5173	n.a.
61	L2370886-04	1.0	0.0910	22.1933	n.a.	n.a.	n.a.
62	L2371139-01 F	1.0	0.0549	62.8379	n.a.	n.a.	0.0702
63	L2371139-01; 10X	10.0	0.5193	65.0688	n.a.	764.2599	0.6038
64	CCV	1.0	1.0007	10.0338	1.1024	18.9643	0.9225
65	CCB	1.0	0.0494	0.1899	n.a.	0.3236	n.a.
66	L2370783-01 F BR	1.0	0.1322	42.2734	n.a.	165.8824	n.a.
67	RINSE	1.0	0.0659	0.1883	n.a.	0.3140	n.a.
68	RINSE	1.0	0.0480	0.1879	n.a.	0.3072	n.a.
69	RINSE	1.0	0.0480	0.1873	n.a.	0.3057	n.a.
70	L2370783-02 F BR CL	1.0	0.1026	6.1667	0.9658	43.2239	n.a.
71	L2370783-03 F BR CL	1.0	0.0942	22.3654	4.8969	73.0361	0.0643
72	L2370783-04 F BR SO4	1.0	0.0622	106.9778	0.3875	6.4055	0.0612
73	L2370783-05 F BR CL	1.0	0.0530	16.9819	1.6250	35.4740	0.0664
74	L2370783-06 F BR	1.0	0.0621	51.4036	0.7099	101.7090	0.0705
75	L2370783-06; 10X SO4 CL	10.0	0.4886	52.3119	1.3748	101.8731	0.5703
76	CCV	1.0	1.0148	10.0294	1.0803	19.6727	0.9194
77	CCB	1.0	n.a.	0.1881	n.a.	0.3030	n.a.
78	L2370783-07 MS	1.0	0.3809	27.4418	6.9260	128.5498	0.0682
79	L2370783-07 DUP	1.0	0.0586	24.6335	6.7803	126.1432	0.0576
80	L2370783-07	1.0	0.0580	24.6642	6.7662	125.9449	n.a.
81	L2370783-08	1.0	0.0619	10.9419	2.6238	40.0791	0.0598
82	L2370783-10	1.0	0.0587	24.1358	7.0412	126.9087	n.a.
83	L2370783-10; 10X	10.0	0.4900	24.9690	7.4794	130.4593	n.a.
84	CCV	1.0	1.0337	10.0465	1.0564	20.1565	1.0262
85	CCB	1.0	n.a.	0.1879	n.a.	0.3070	n.a.
86	L2371914-01	1.0	0.7090	74.2711	0.4850	8.1894	n.a.
87	L2371914-01; 10X	10.0	0.9689	76.0227	1.1781	9.0830	n.a.
88	L2371914-02	1.0	n.a.	0.1818	n.a.	0.2976	n.a.
89	L2371914-03	1.0	n.a.	0.1834	0.0865	0.2953	n.a.
90	L2371914-04 MS	1.0	0.3859	3.9430	0.4573	7.8177	0.3841
91	L2371914-04 DUP	1.0	0.0482	0.1838	0.0864	0.2990	n.a.
92	L2371914-04	1.0	0.0477	0.1840	n.a.	0.3033	n.a.

93	L2371537-01; 25X CL	25.0	1.3822	462.8320	n.a.	138.1057	1.6731
94	L2371537-02; 25X	25.0	1.3838	468.8140	n.a.	131.6359	1.6830
95	L2370783-01; 250X BR SO4	250.0	n.a.	76.0277	n.a.	250.3928	n.a.
96	CCV	1.0	1.0111	10.0356	1.0139	20.2519	0.9989
97	CCB	1.0	n.a.	0.1890	n.a.	0.3038	n.a.
98	L2371711-01	1.0	n.a.	0.1804	n.a.	0.2946	n.a.
99	L2371711-02	1.0	0.0477	0.1825	0.0865	0.2949	n.a.
100	L2370783-07 MS; 10X	10.0	4.1033	66.2541	11.0814	218.1065	3.8630
101	L2370783-07 DUP; 10X	10.0	0.4918	26.3358	7.3723	138.5914	n.a.
102	L2370783-07; 10X	10.0	0.4890	26.3962	7.4756	139.5114	0.5538
103	CCV	1.0	1.0251	10.0484	1.0120	20.4169	0.9279
104	CCB	1.0	n.a.	0.1876	n.a.	0.3043	n.a.
	Sum:	620.000	46.9007		121.4189	5533.3685	43.6234
	Average:	5.962	0.5154		2.5834	57.0450	0.7151
	Rel.Std.Dev:	415.786 %	1.4400		1.2368	1.9449	1.3089

Inject Time	Comment
28/Nov/2023 17:33	AU
28/Nov/2023 17:45	LOT#230717-0.5
28/Nov/2023 17:57	LOT#230717-1.0
28/Nov/2023 18:09	LOT#230717-2.0
28/Nov/2023 18:21	LOT#230717-3.0
28/Nov/2023 18:33	LOT#230717-4.0
28/Nov/2023 18:45	LOT#230717-5.0
06/Dec/2023 16:16	G1860728-29-30-31-32
06/Dec/2023 16:28	LOT#231204-C
06/Dec/2023 16:41	AU
06/Dec/2023 16:53	LOT#231204-I
06/Dec/2023 17:05	AU
06/Dec/2023 17:17	AU
06/Dec/2023 17:29	LOT#231204-I
06/Dec/2023 17:41	AU
06/Dec/2023 17:53	AU
06/Dec/2023 18:05	AU
06/Dec/2023 18:17	AU
06/Dec/2023 18:29	AU
06/Dec/2023 18:42	AU
06/Dec/2023 18:54	LOT#231204-C
06/Dec/2023 19:06	AU
06/Dec/2023 19:18	AU
06/Dec/2023 19:30	AU
06/Dec/2023 19:42	AU
06/Dec/2023 19:54	AU
06/Dec/2023 20:06	AU
06/Dec/2023 20:18	AU
06/Dec/2023 20:30	AU
06/Dec/2023 20:42	AU
06/Dec/2023 20:54	AU
06/Dec/2023 21:07	AU
06/Dec/2023 21:19	LOT#231204-C
06/Dec/2023 21:31	AU
06/Dec/2023 21:43	AU
06/Dec/2023 21:55	LOT#231204-I
06/Dec/2023 22:07	AU
06/Dec/2023 22:19	AU
06/Dec/2023 22:31	AU
06/Dec/2023 22:43	AU
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06/Dec/2023 23:44	AU

06/Dec/2023 23:56	AU
07/Dec/2023 00:08	AU
07/Dec/2023 00:20	AU
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07/Dec/2023 11:24	LOT#231204-C
07/Dec/2023 11:37	AU
	0.000
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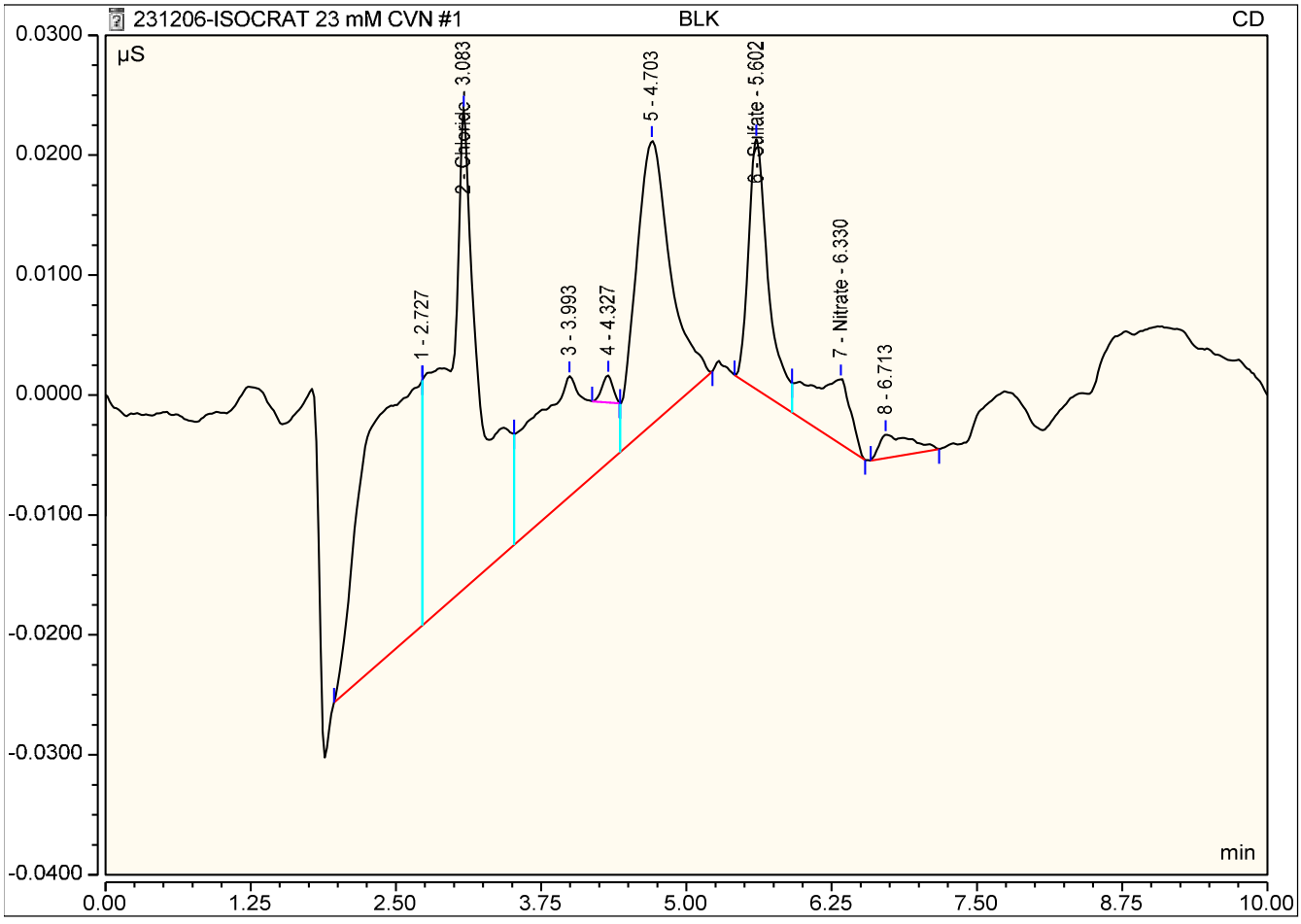
	#DIV/0!

Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**05-Dec-2023 / 18:25**	*Run Time:*	**10.00**

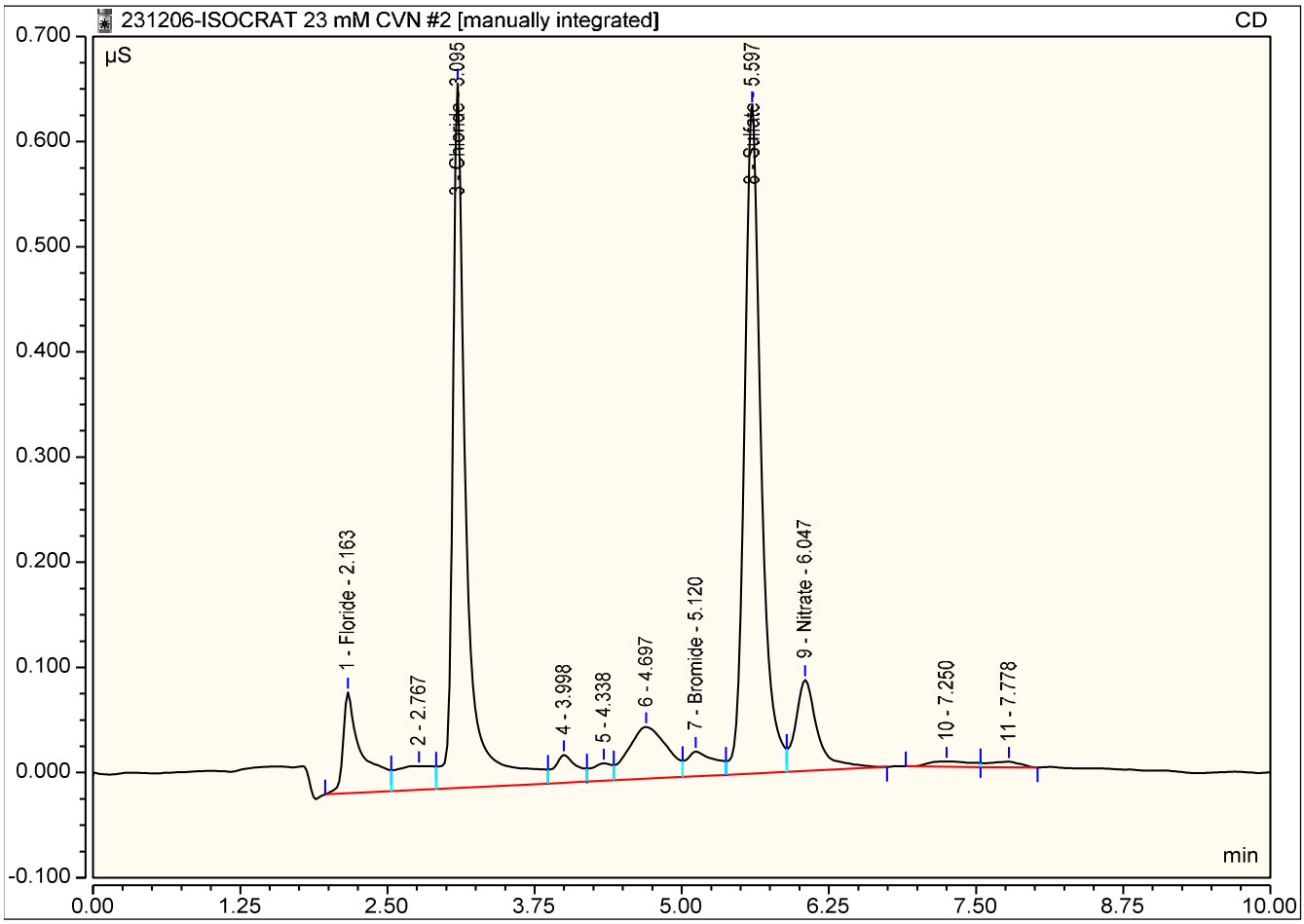
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	3.08	**Chloride**	M	0.015	0.040	0.1126
6	5.60	**Sulfate**	BM	0.004	0.021	0.1543
7	6.33	**Nitrate**	MB	0.002	0.005	0.0288
TOTAL:				0.02	0.07	0.30



Peak Integration Report

Sample Name:	**STD 0.5**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**05-Dec-2023 / 18:35**	*Run Time:*	**10.00**

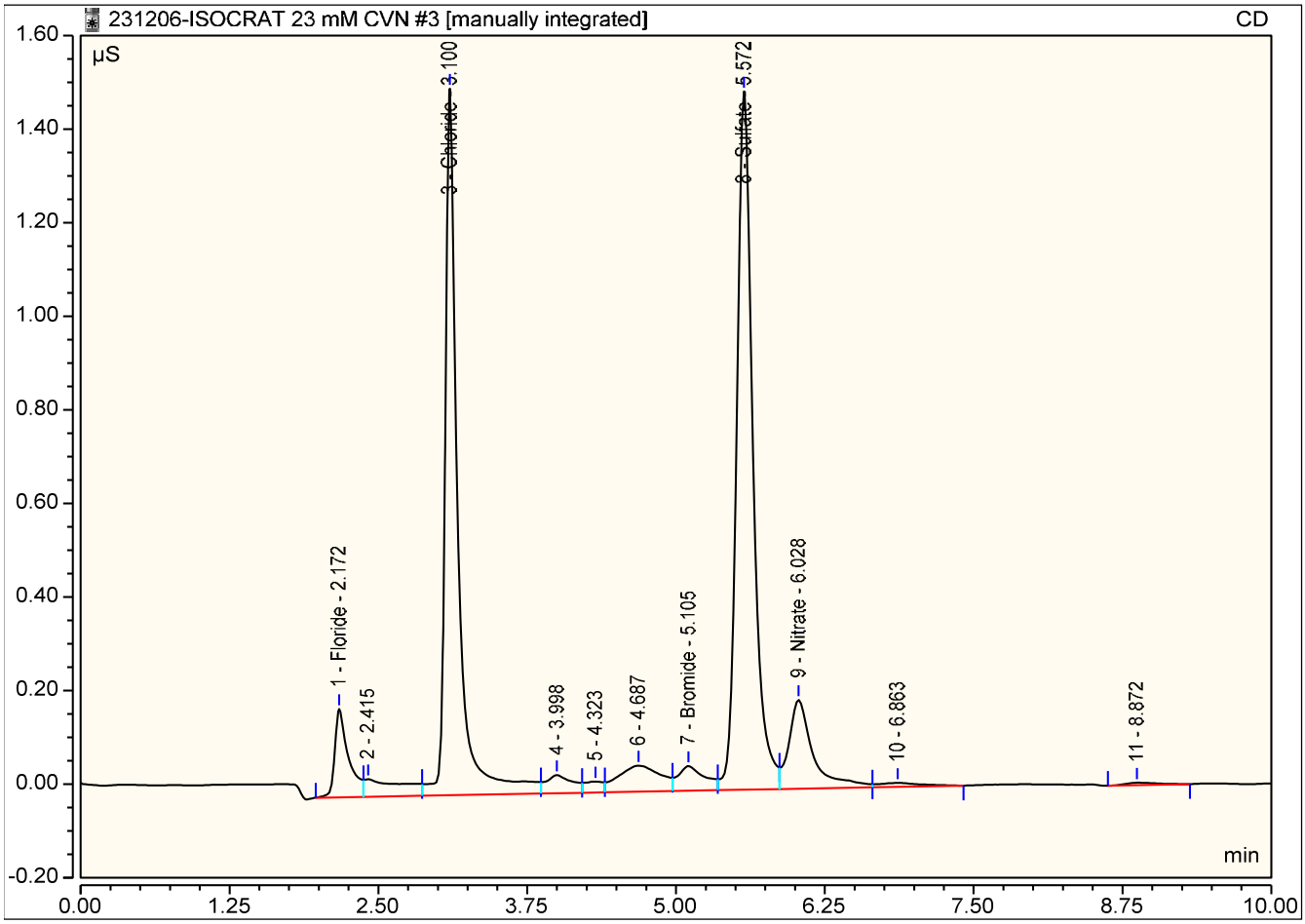
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.018	0.096	0.0464
3	3.10	**Chloride**	M	0.091	0.670	0.3054
7	5.12	**Bromide**	M	0.007	0.024	0.0436
8	5.60	**Sulfate**	M *	0.105	0.635	0.5107
9	6.05	**Nitrate**	MB*	0.019	0.087	0.0447
TOTAL:				0.24	1.51	0.95



Peak Integration Report

Sample Name:	**STD 1.0**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**05-Dec-2023 / 18:46**	*Run Time:*	**10.00**

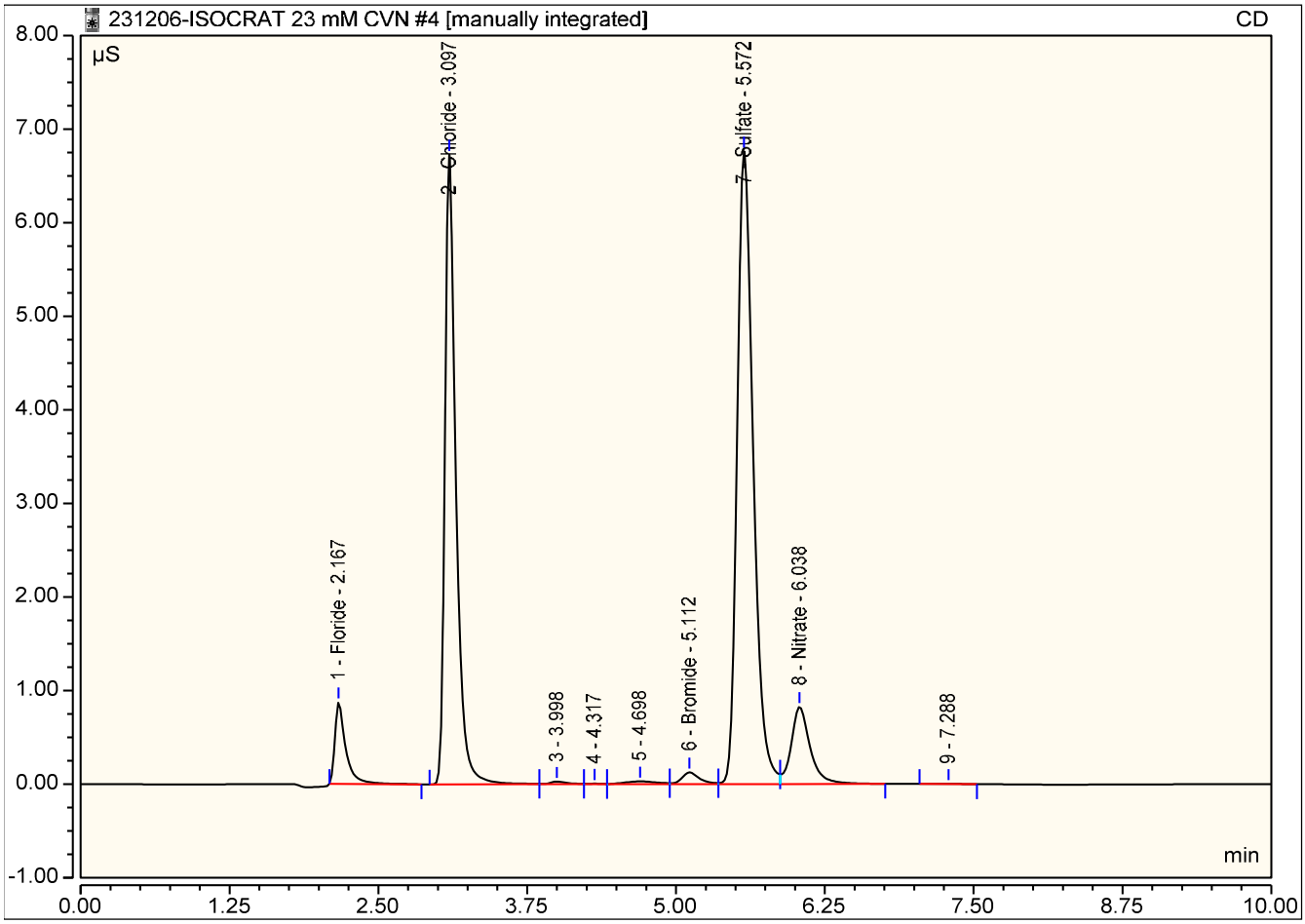
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	BM	0.025	0.189	0.0574
3	3.10	**Chloride**	M	0.186	1.510	0.5479
7	5.11	**Bromide**	M	0.014	0.053	0.1016
8	5.57	**Sulfate**	M *	0.235	1.492	0.9720
9	6.03	**Nitrate**	M *	0.045	0.190	0.0689
TOTAL:				0.50	3.43	1.75



Peak Integration Report

Sample Name:	**STD 2.0**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**05-Dec-2023 / 18:57**	*Run Time:*	**10.00**

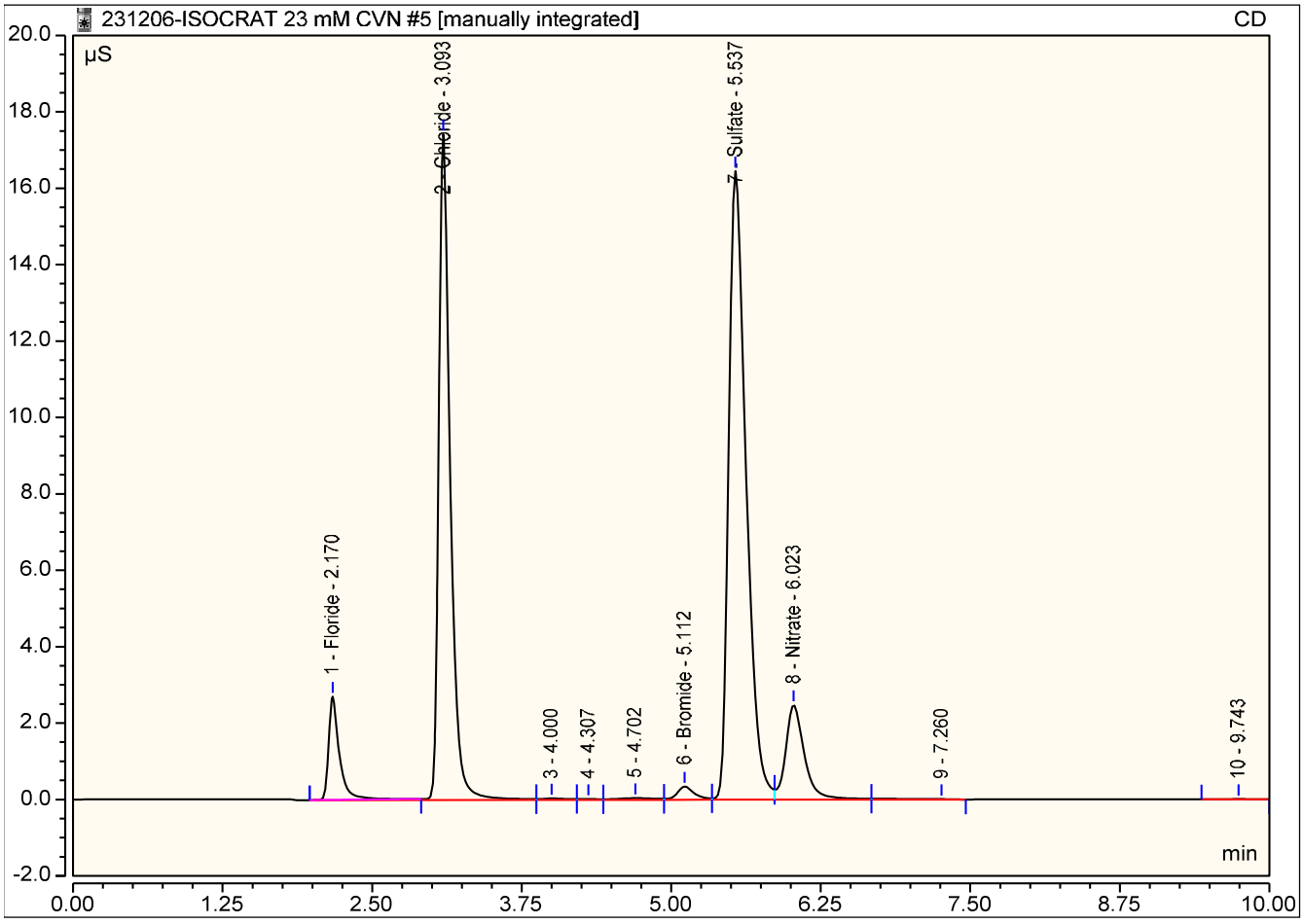
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	BMB	0.093	0.875	0.1682
2	3.10	**Chloride**	BM	0.723	6.731	1.9104
6	5.11	**Bromide**	M	0.021	0.126	0.1652
7	5.57	**Sulfate**	M *	1.058	6.762	3.8811
8	6.04	**Nitrate**	MB*	0.152	0.825	0.1699
TOTAL:				2.05	15.32	6.29



Peak Integration Report

Sample Name:	**STD 3.0**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**05-Dec-2023 / 19:08**	*Run Time:*	**10.00**

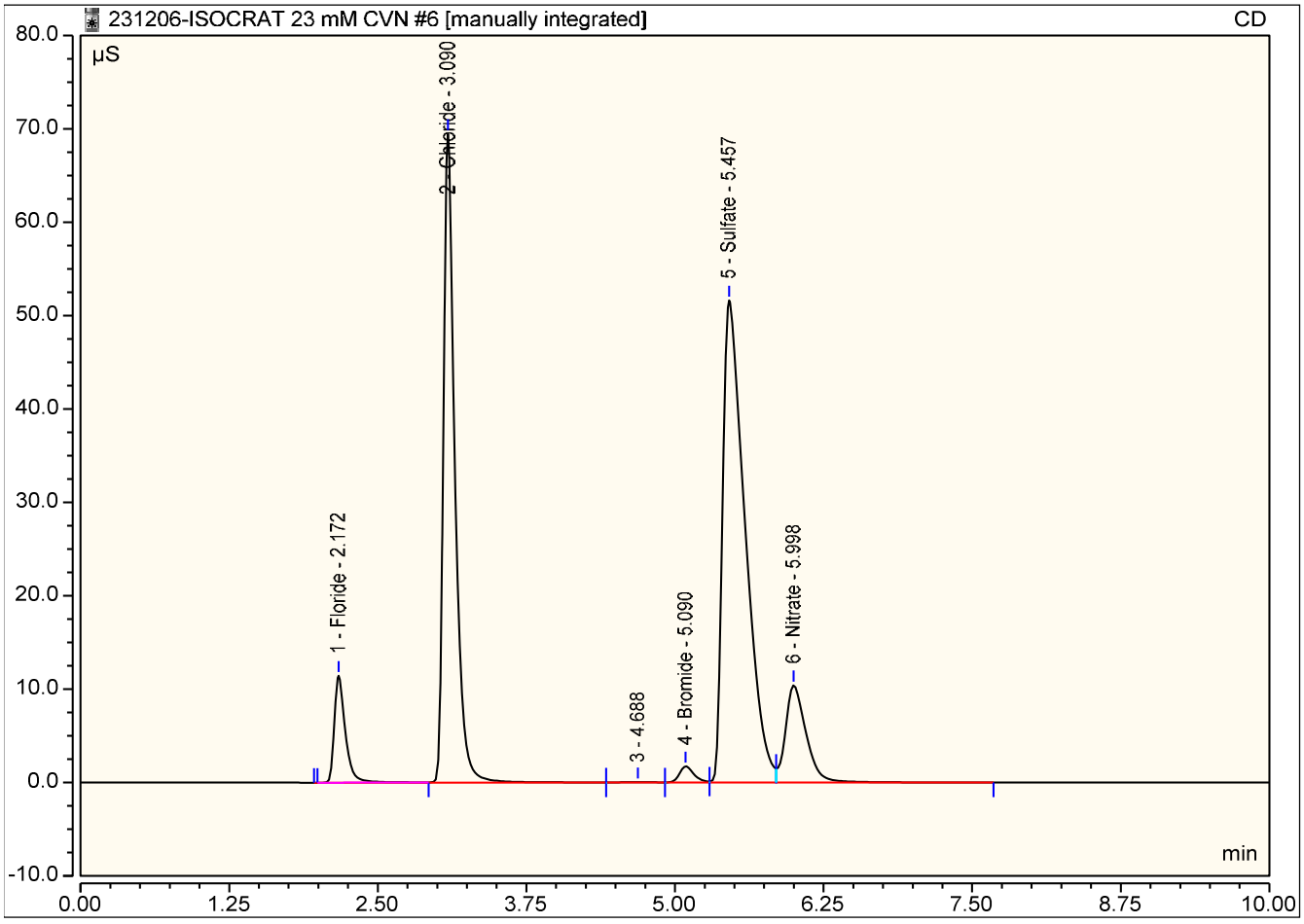
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	Ru	0.280	2.705	0.4713
2	3.09	**Chloride**	BM	1.939	17.427	4.9968
6	5.11	**Bromide**	M	0.058	0.348	0.4629
7	5.54	**Sulfate**	M *	2.769	16.454	9.9333
8	6.02	**Nitrate**	M *	0.448	2.478	0.4498
TOTAL:				5.49	39.41	16.31



Peak Integration Report

Sample Name:	**STD 4.0**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**05-Dec-2023 / 19:19**	*Run Time:*	**10.00**

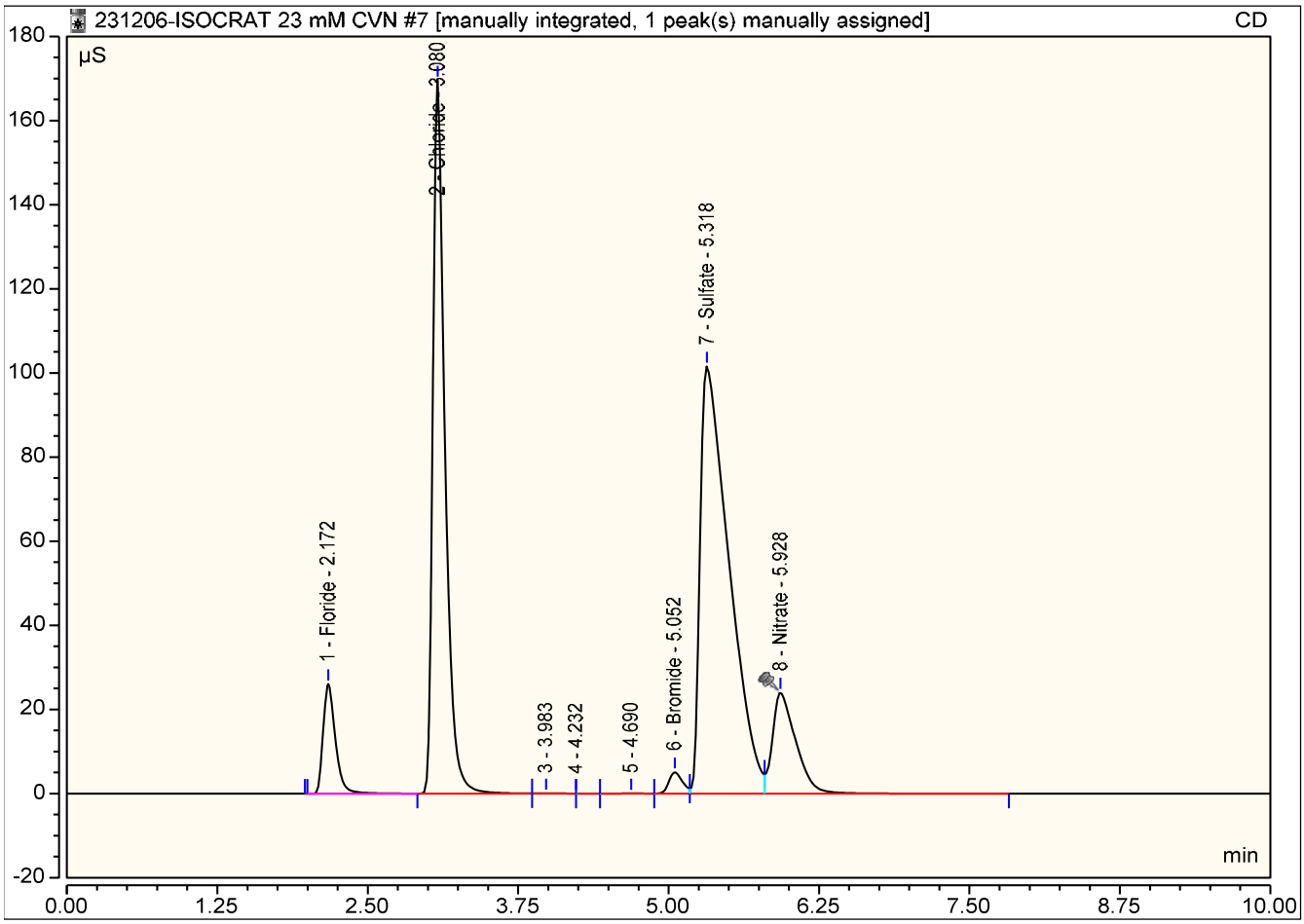
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	Ru	1.231	11.448	2.0186
2	3.09	**Chloride**	BM	7.790	69.485	19.8522
4	5.09	**Bromide**	M	0.248	1.745	2.0112
5	5.46	**Sulfate**	M *	11.294	51.634	40.0860
6	6.00	**Nitrate**	MB*	2.104	10.428	2.0148
TOTAL:				22.67	144.74	65.98



Peak Integration Report

Sample Name:	**STD 5.0**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**05-Dec-2023 / 19:30**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	Ru	3.063	26.045	4.9965
2	3.08	**Chloride**	BM	19.688	169.547	50.0623
6	5.05	**Bromide**	M	0.671	5.101	5.4572
7	5.32	**Sulfate**	M *	28.227	101.566	99.9773
8	5.93	**Nitrate**	MB*^	5.424	24.046	5.1511
TOTAL:				57.07	326.30	165.64



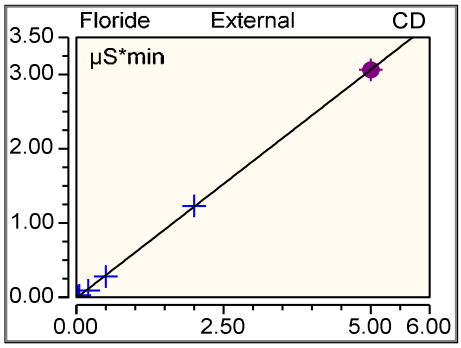
Calibration Batch Report

Sequence:	**231206-ISOCRAT 23 mM CVN**	*Injection Volume:*	**5,000.00**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**05-Dec-2023 / 19:30**	*Run Time:*	**10**

Calibration Summary

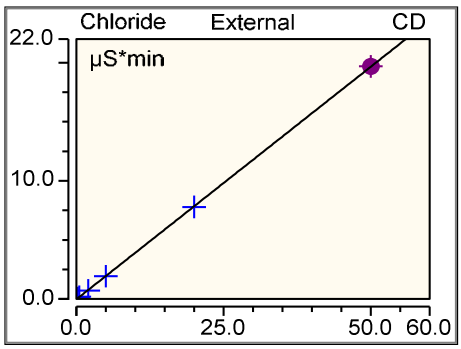
Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Floride	Area	Lin, AddZero	7.000	-0.010	0.615	0.000	99.9856
Chloride	Area	Lin, AddZero	7.000	-0.030	0.394	0.000	99.9978
Bromide	Area	Lin, AddZero	6.000	0.001	0.123	0.000	99.8074
Sulfate	Area	Lin, AddZero	7.000	-0.039	0.283	0.000	99.9994
Nitrate	Area	Lin, AddZero	6.000	-0.028	1.059	0.000	99.8307
		AVERAGE:		-0.0213	0.4946	0.0000	99.9242

Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Floride	Floride	Floride	Floride
STD 0.5	2.163	0.0184	0.096	0.046
STD 1.0	2.172	0.0251	0.189	0.057
STD 2.0	2.167	0.0933	0.875	0.168
STD 3.0	2.170	0.2797	2.705	0.471
STD 4.0	2.172	1.2312	11.448	2.019
STD 5.0	2.172	3.0626	26.045	4.997
Average	2.169			
Rel. Std. Dev.	0.159 %			

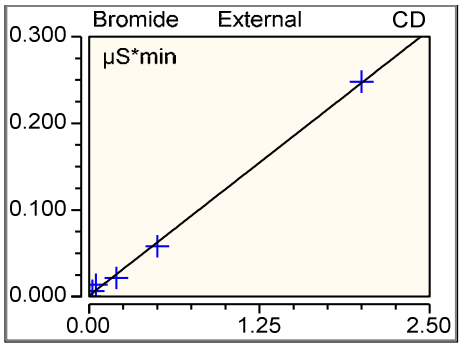


No.	Peak Name	Ret. Time	Window	Standard	Eval.Type	Cal. Type	Peak Type
1	Floride	2.230	0.249 AN	External	Area	Lin, AddZ	Ru
2	Chloride	3.200	0.692 AN	External	Area	Lin, AddZ	BM
3	Bromide	5.300	0.300 AF	External	Area	Lin, AddZ	M
4	Sulfate	5.681	0.400 AF	External	Area	Lin, AddZ	M *
5	Nitrate	6.400	0.457 AN	External	Area	Lin, AddZ	MB*^

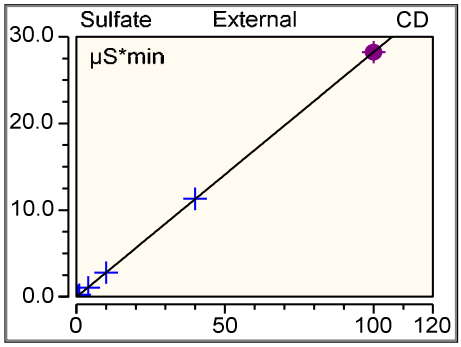
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Chloride	Chloride	Chloride	Chloride
STD 0.5	3.095	0.0907	0.670	0.305
STD 1.0	3.100	0.1862	1.510	0.548
STD 2.0	3.097	0.7229	6.731	1.910
STD 3.0	3.093	1.9385	17.427	4.997
STD 4.0	3.090	7.7896	69.485	19.852
STD 5.0	3.080	19.6884	169.547	50.062
Average	3.093			
Rel. Std. Dev.	0.225 %			



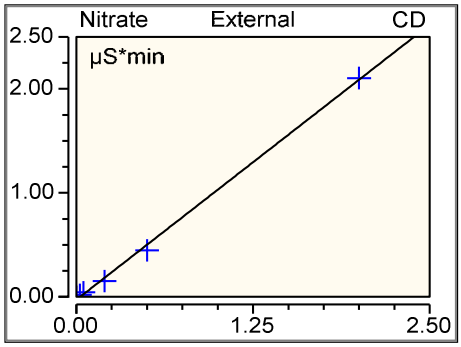
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Bromide	Bromide	Bromide	Bromide
STD 0.5	5.120	0.0065	0.024	0.044
STD 1.0	5.105	0.0136	0.053	0.102
STD 2.0	5.112	0.0215	0.126	0.165
STD 3.0	5.112	0.0580	0.348	0.463
STD 4.0	5.090	0.2481	1.745	2.011
STD 5.0	5.052	0.6712	5.101	5.457
Average	5.098			
Rel. Std. Dev.	0.490 %			



Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Sulfate	Sulfate	Sulfate	Sulfate
STD 0.5	5.597	0.1049	0.635	0.511
STD 1.0	5.572	0.2353	1.492	0.972
STD 2.0	5.572	1.0578	6.762	3.881
STD 3.0	5.537	2.7689	16.454	9.933
STD 4.0	5.457	11.2939	51.634	40.086
STD 5.0	5.318	28.2267	101.566	99.977
Average	5.509			
Rel. Std. Dev.	1.911 %			



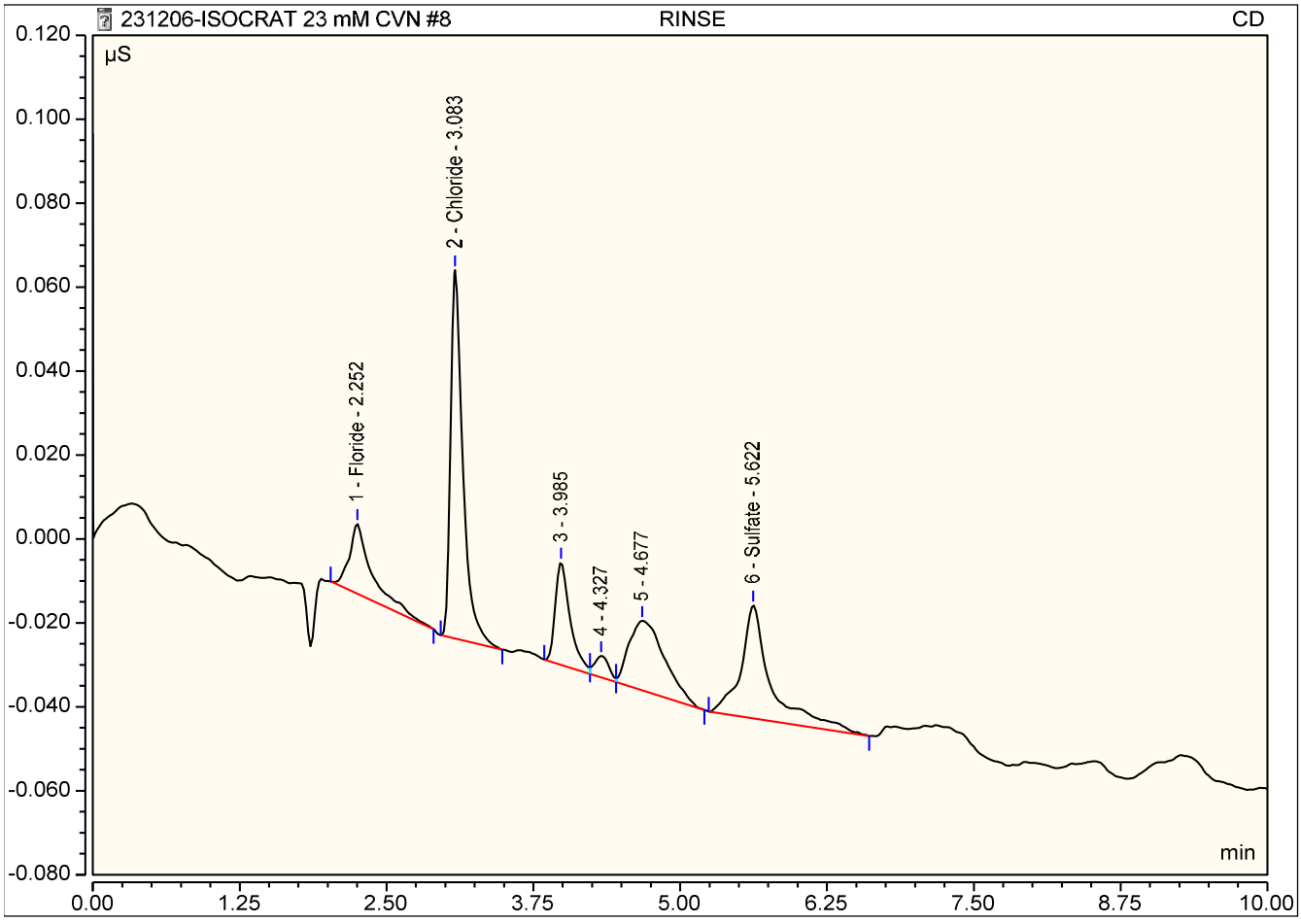
Injection Name	Ret.Time min CD	Area µS*min CD	Height µS CD	Amount CD
	Nitrate	Nitrate	Nitrate	Nitrate
STD 0.5	6.047	0.0189	0.087	0.045
STD 1.0	6.028	0.0446	0.190	0.069
STD 2.0	6.038	0.1515	0.825	0.170
STD 3.0	6.023	0.4478	2.478	0.450
STD 4.0	5.998	2.1045	10.428	2.015
STD 5.0	5.928	5.4245	24.046	5.151
Average	6.011			
Rel. Std. Dev.	0.724 %			



Peak Integration Report

Sample Name:	**RINSE**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 08:49**	*Run Time:*	**10.00**

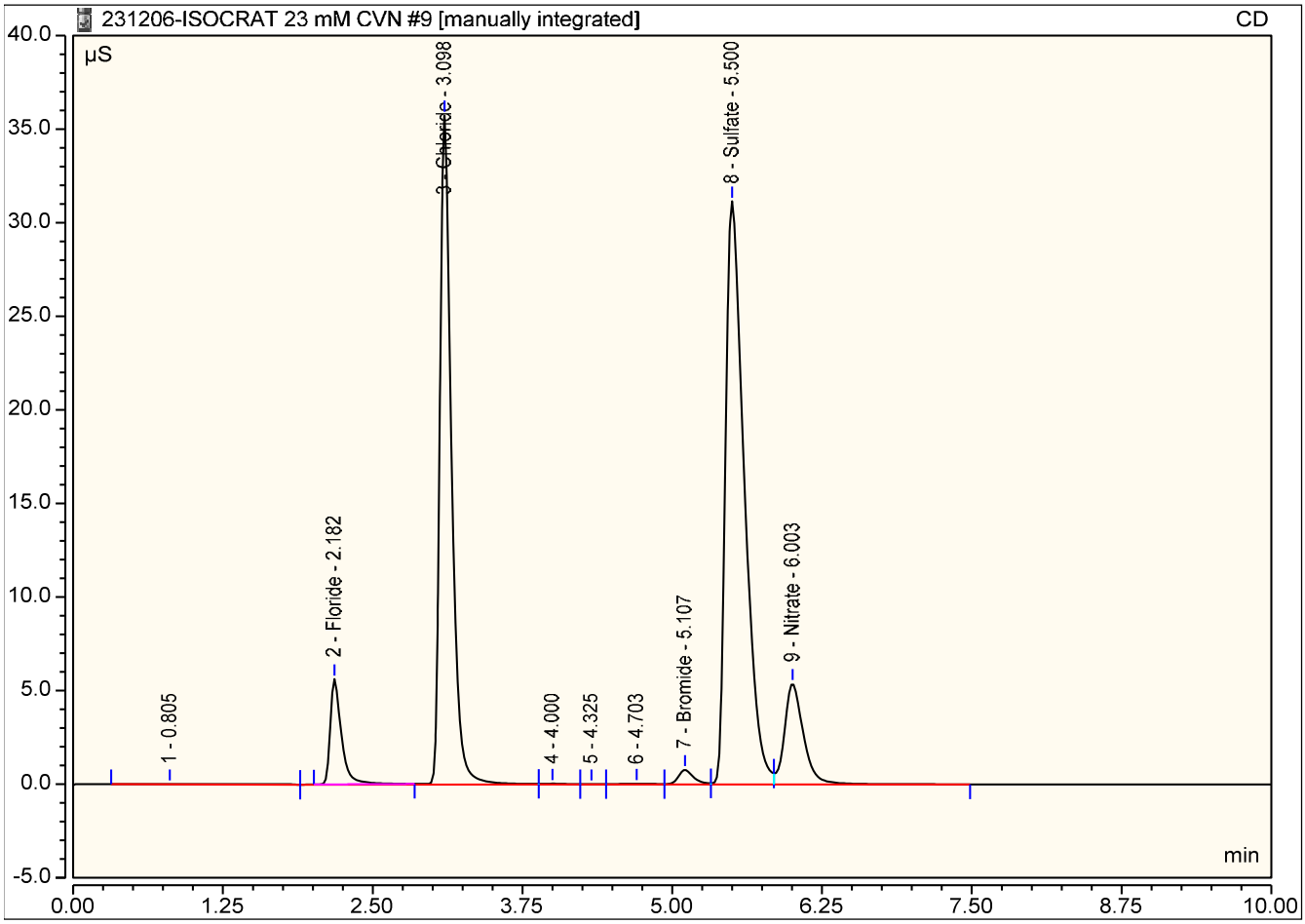
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.25	**Floride**	BMB	0.004	0.017	0.0226
2	3.08	**Chloride**	BMB	0.011	0.088	0.1021
6	5.62	**Sulfate**	BMB	0.008	0.027	0.1680
TOTAL:				0.02	0.13	0.29



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 08:59**	*Run Time:*	**10.00**

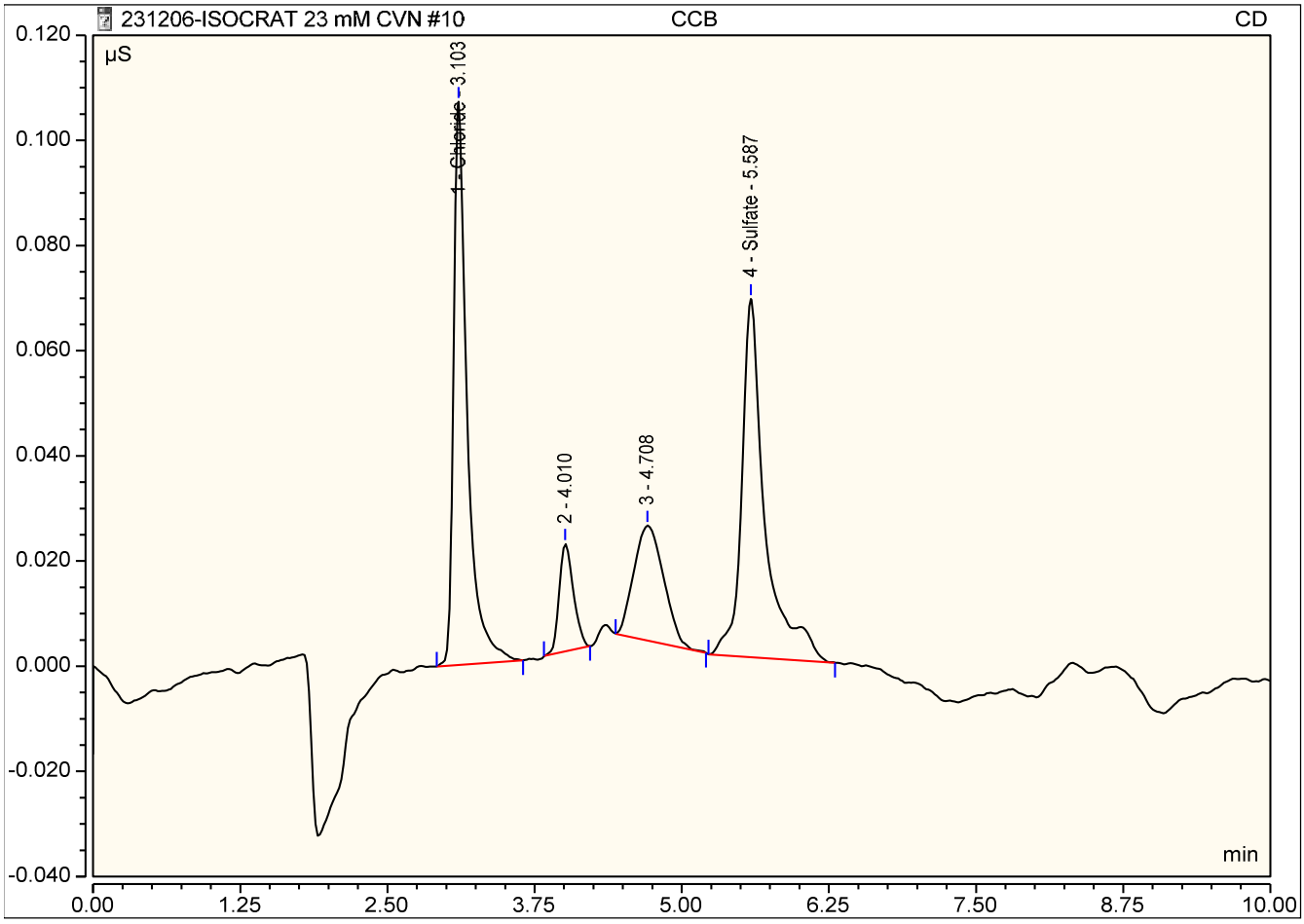
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.18	**Floride**	Ru	0.605	5.620	1.0001
3	3.10	**Chloride**	BM	4.012	35.762	10.2603
7	5.11	**Bromide**	M	0.118	0.783	0.9498
8	5.50	**Sulfate**	M *	5.658	31.159	20.1529
9	6.00	**Nitrate**	MB*	0.992	5.384	0.9640
TOTAL:				11.38	78.71	33.33



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 09:10**	*Run Time:*	**10.00**

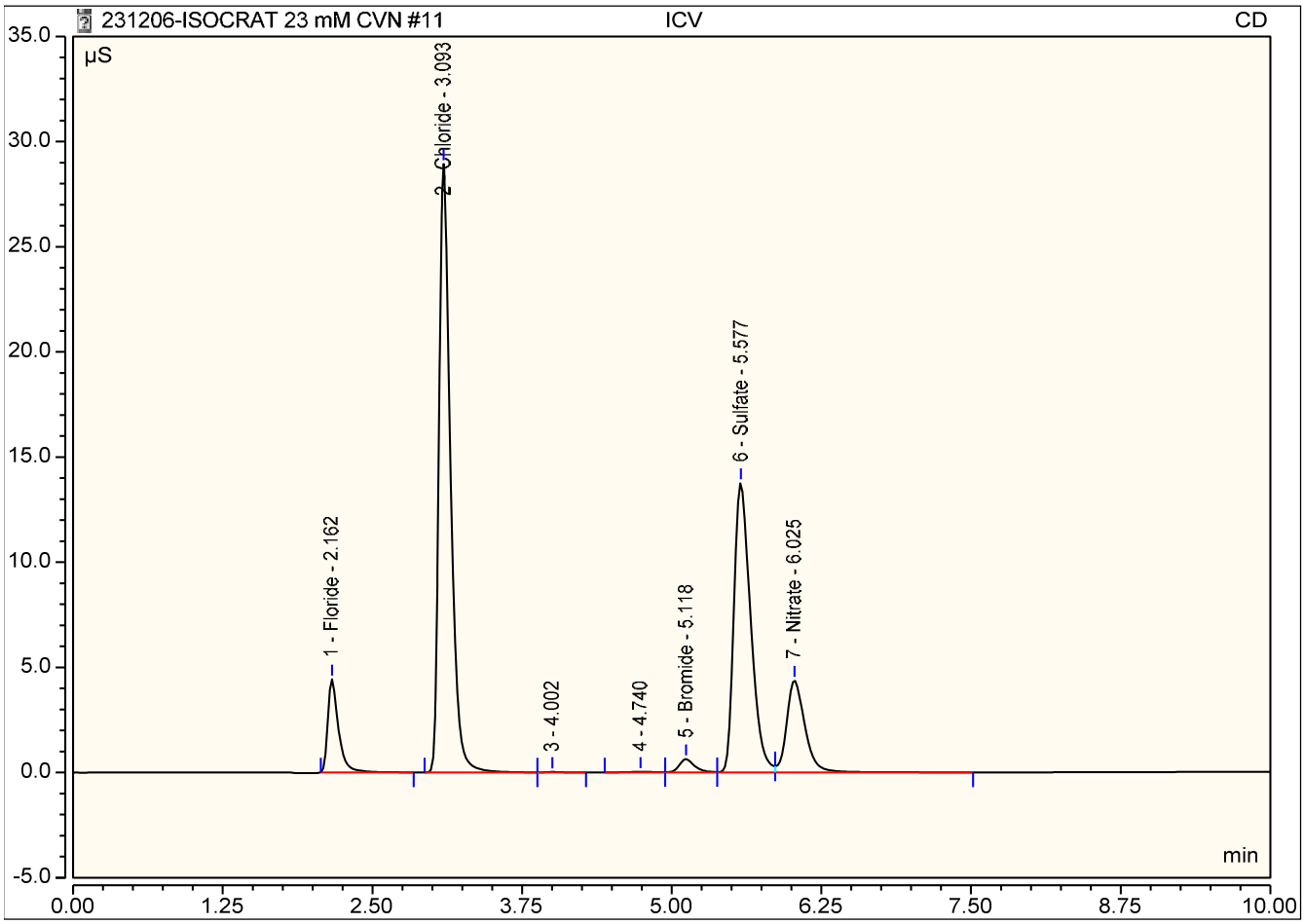
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.10	**Chloride**	BMB	0.014	0.107	0.1116
4	5.59	**Sulfate**	BMB	0.016	0.068	0.1948
TOTAL:				0.03	0.18	0.31



Peak Integration Report

Sample Name:	**ICV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 09:21**	*Run Time:*	**10.00**

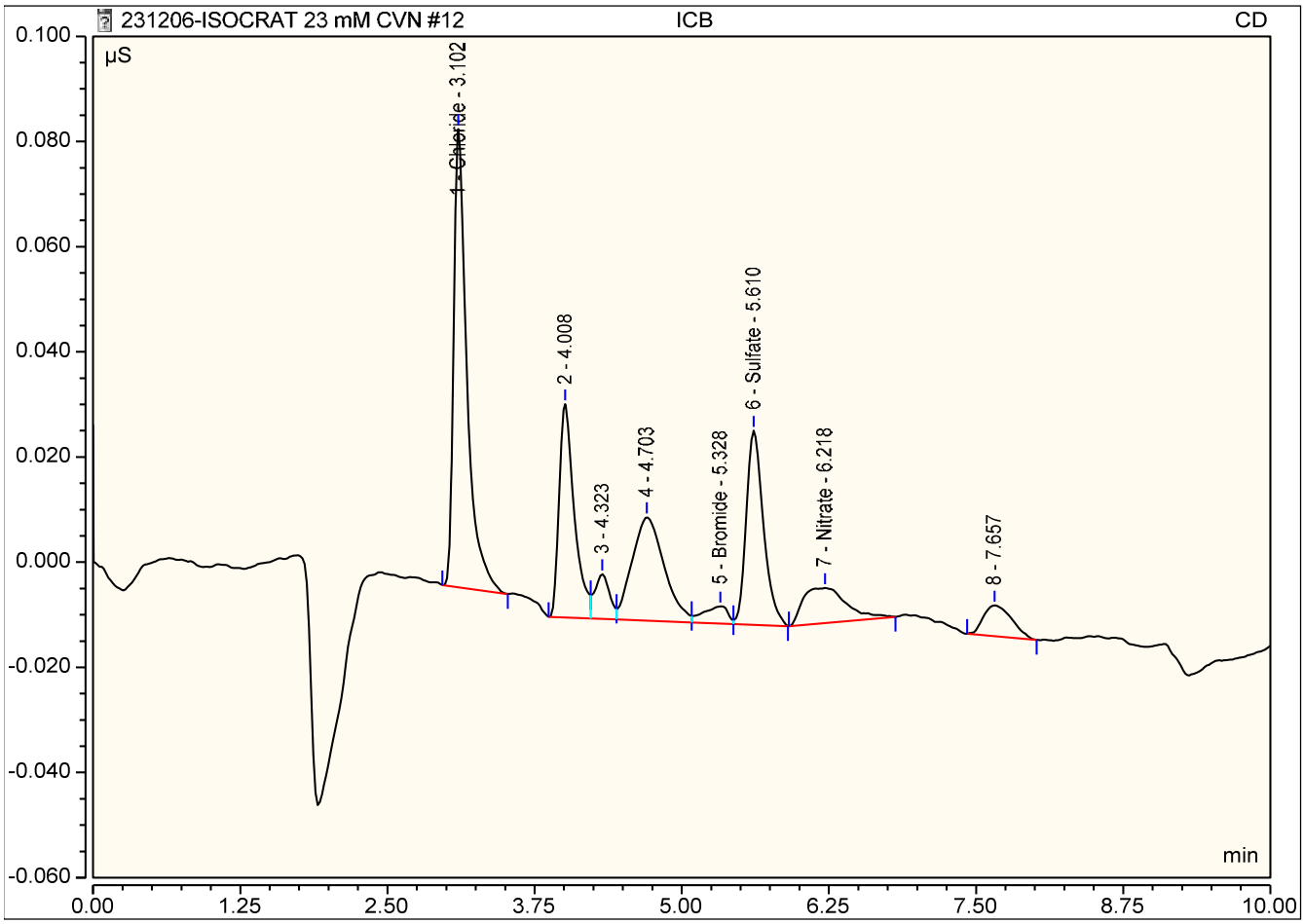
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BMB	0.456	4.428	0.7584
2	3.09	**Chloride**	BM	3.193	28.936	8.1824
5	5.12	**Bromide**	M	0.097	0.637	0.7769
6	5.58	**Sulfate**	M	2.223	13.763	8.0027
7	6.03	**Nitrate**	MB	0.780	4.377	0.7636
TOTAL:				6.75	52.14	18.48



Peak Integration Report

Sample Name:	**ICB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 09:32**	*Run Time:*	**10.00**

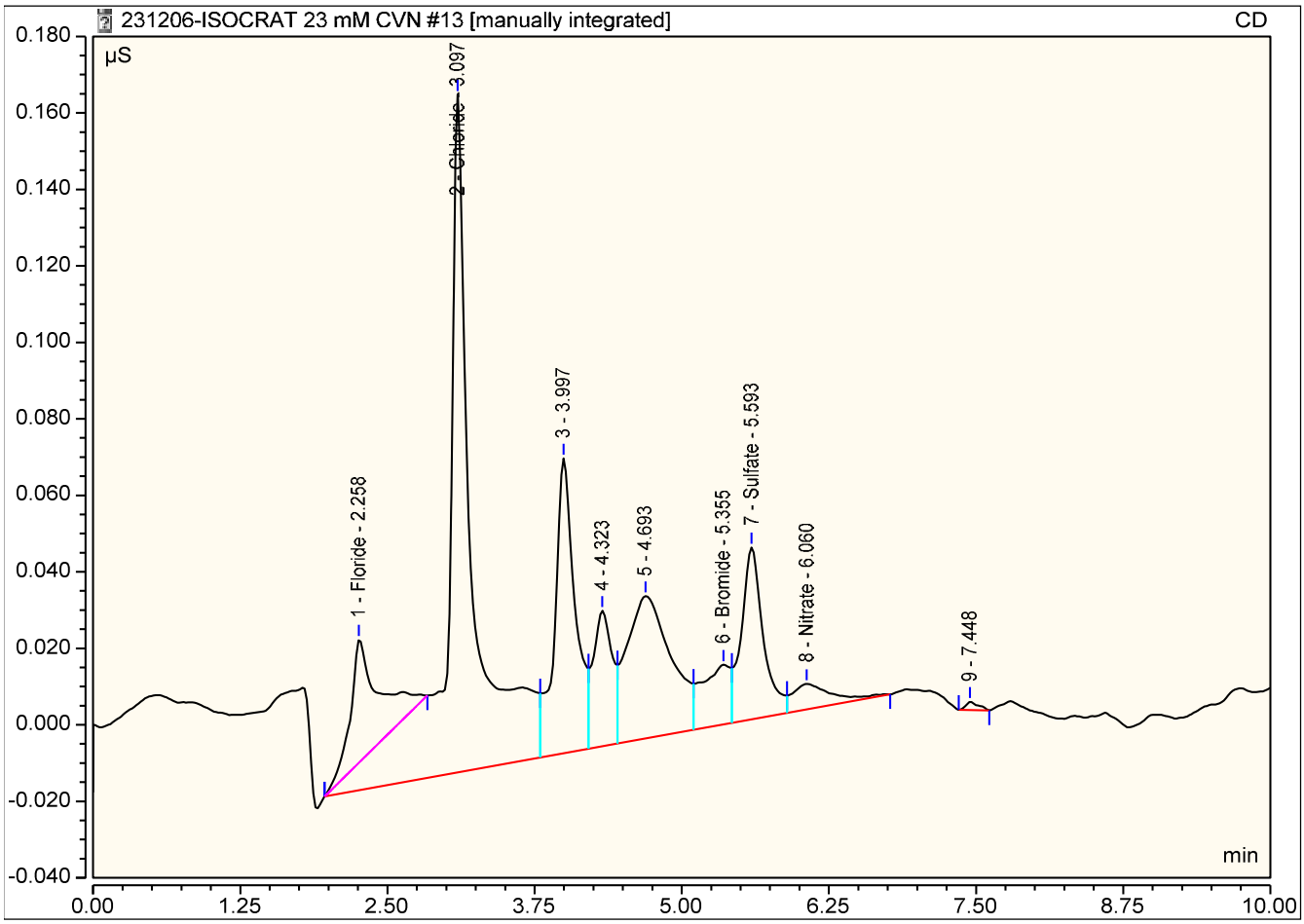
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.10	**Chloride**	BMB	0.011	0.087	0.1040
5	5.33	**Bromide**	M	0.001	0.003	n.a.
6	5.61	**Sulfate**	MB	0.006	0.037	0.1620
7	6.22	**Nitrate**	BMB	0.003	0.007	0.0295
TOTAL:				0.02	0.13	0.30



Peak Integration Report

Sample Name:	**BLK**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 09:43**	*Run Time:*	**10.00**

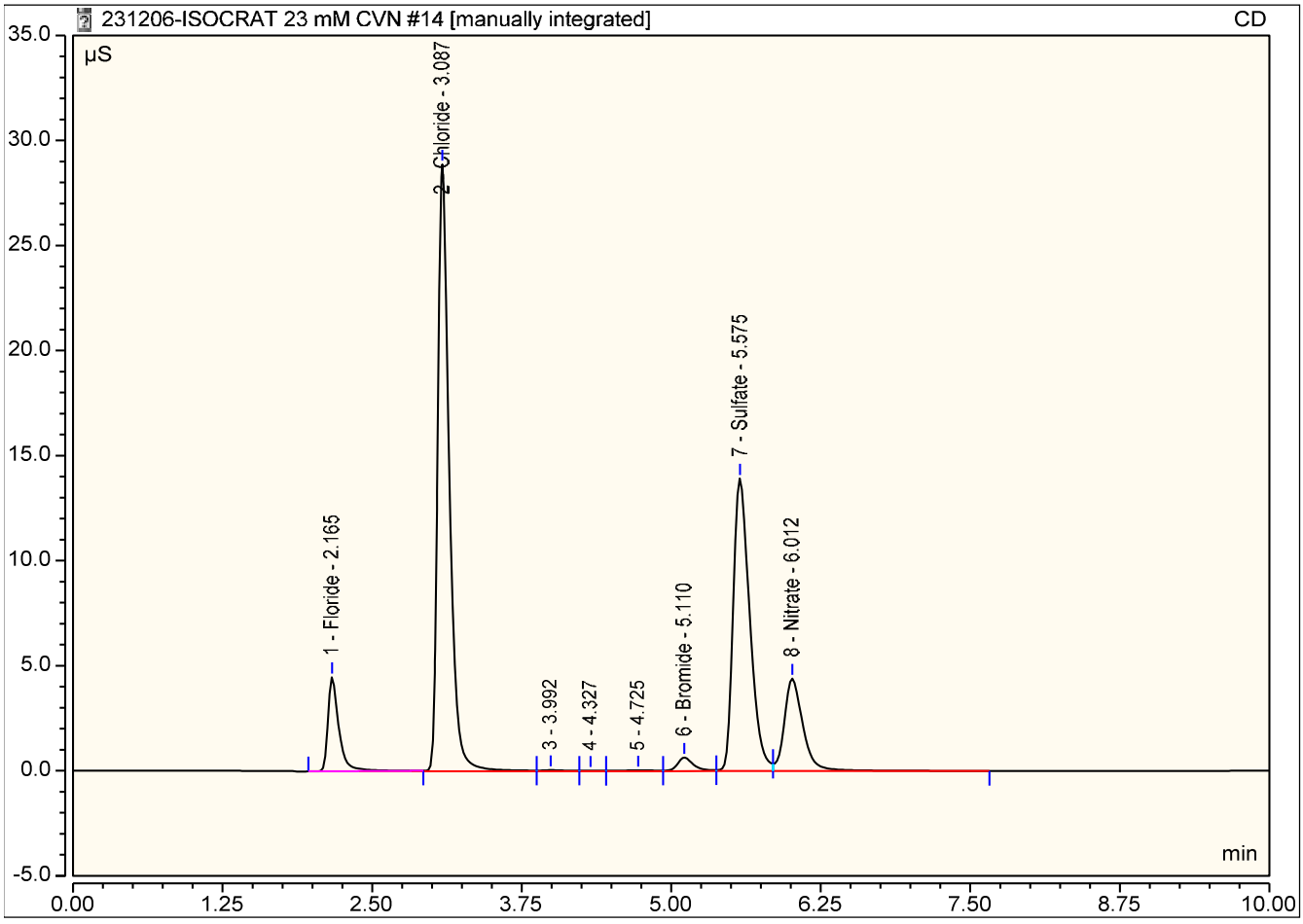
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.26	**Floride**	Ru*	0.009	0.032	0.0311
2	3.10	**Chloride**	BM *	0.048	0.177	0.1963
6	5.36	**Bromide**	M	0.004	0.016	0.0262
7	5.59	**Sulfate**	M	0.010	0.045	0.1742
8	6.06	**Nitrate**	MB	0.002	0.007	0.0292
TOTAL:				0.07	0.28	0.46



Peak Integration Report

Sample Name:	**LCS**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 09:54**	*Run Time:*	**10.00**

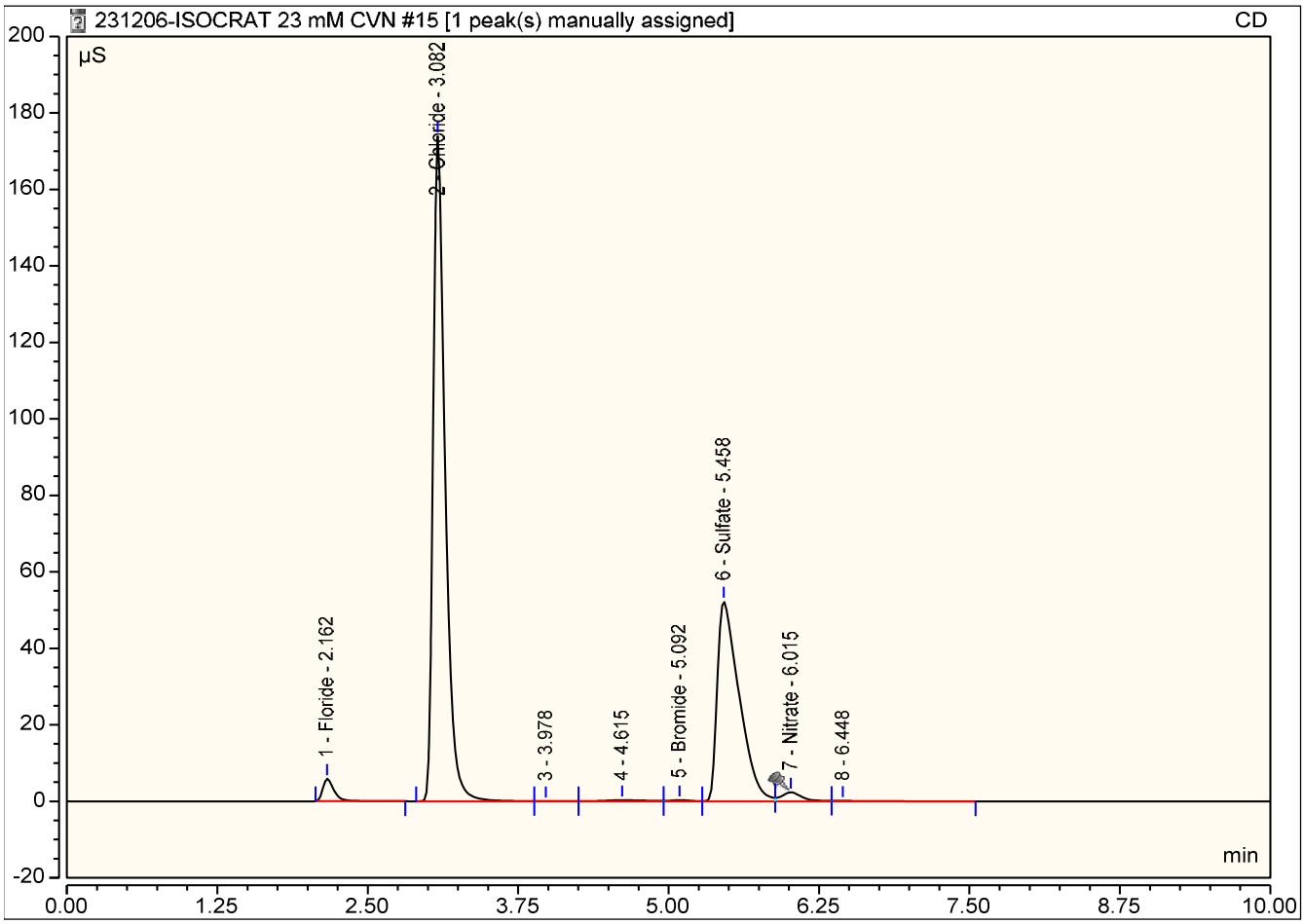
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	Ru	0.473	4.481	0.7851
2	3.09	**Chloride**	BM	3.218	28.884	8.2456
6	5.11	**Bromide**	M	0.103	0.649	0.8276
7	5.58	**Sulfate**	M *	2.227	13.926	8.0152
8	6.01	**Nitrate**	MB*	0.800	4.401	0.7830
TOTAL:				6.82	52.34	18.66



Peak Integration Report

Sample Name:	**L2371388-01 BR CL F SO4 NO3 MS**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 10:05**	*Run Time:*	**10.00**

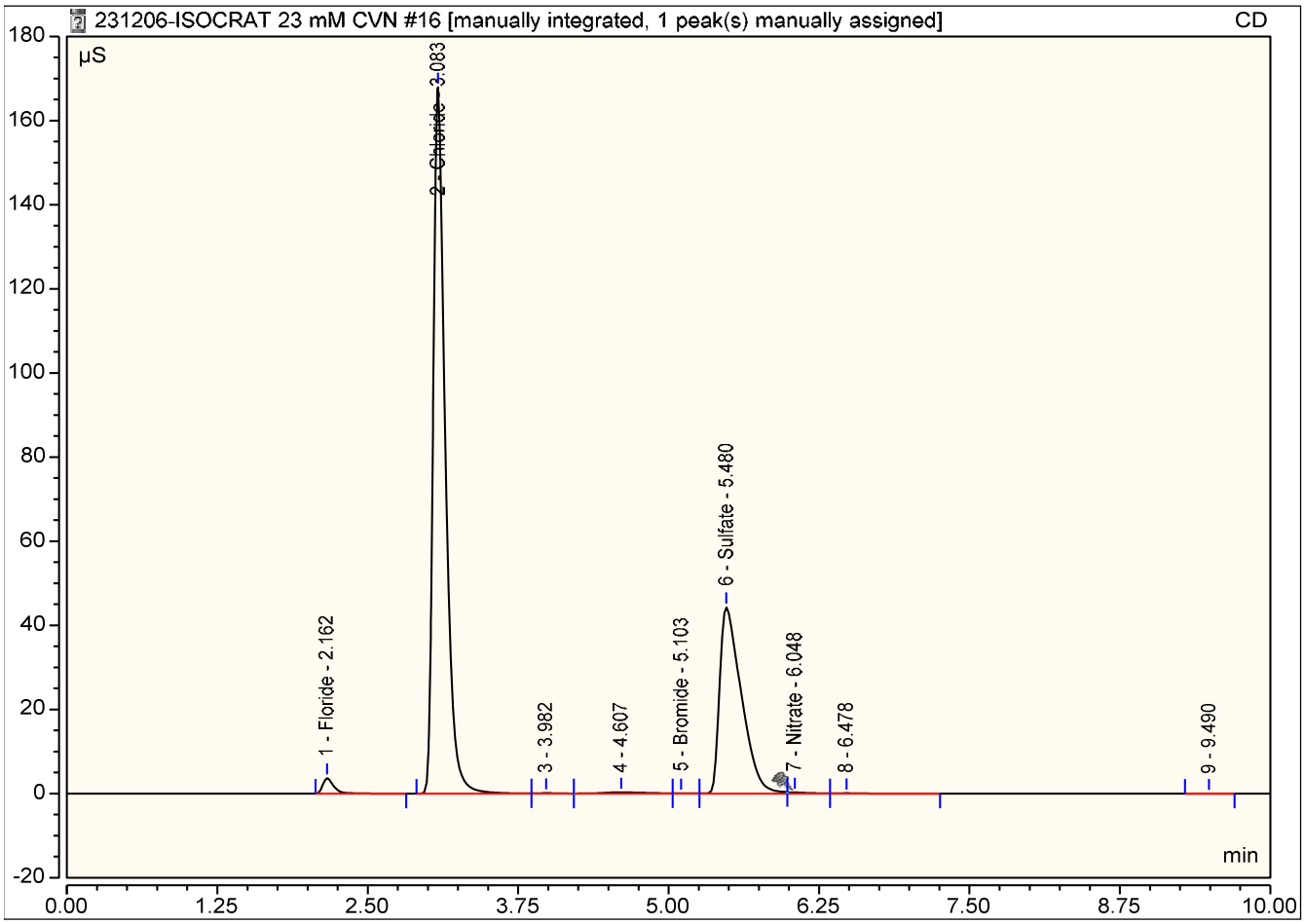
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BMB	0.630	5.865	1.0415
2	3.08	**Chloride**	BM	20.035	173.917	50.9414
5	5.09	**Bromide**	M	0.057	0.325	0.4519
6	5.46	**Sulfate**	M	11.065	52.280	39.2782
7	6.02	**Nitrate**	M ^	0.461	2.363	0.4624
TOTAL:				32.25	234.75	92.18



Peak Integration Report

Sample Name:	**L2371388-01 DUP**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 10:16**	*Run Time:*	**10.00**

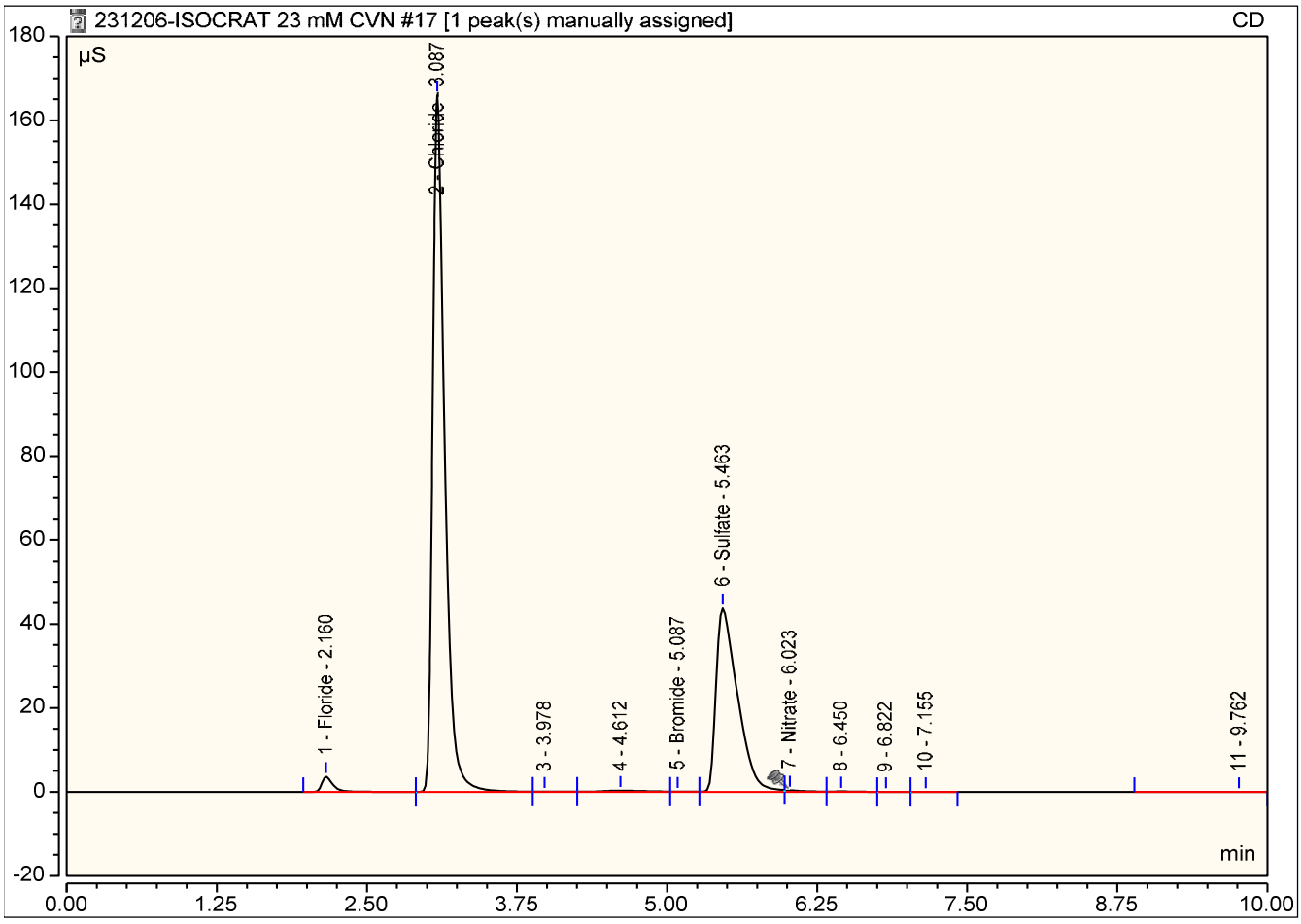
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BMB	0.389	3.674	0.6496
2	3.08	**Chloride**	BM	19.425	167.912	49.3931
5	5.10	**Bromide**	M	0.012	0.063	0.0855
6	5.48	**Sulfate**	M *	9.302	44.315	33.0406
7	6.05	**Nitrate**	M ^	0.061	0.290	0.0842
TOTAL:				29.19	216.25	83.25



Peak Integration Report

Sample Name:	**L2371388-01**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 10:26**	*Run Time:*	**10.00**

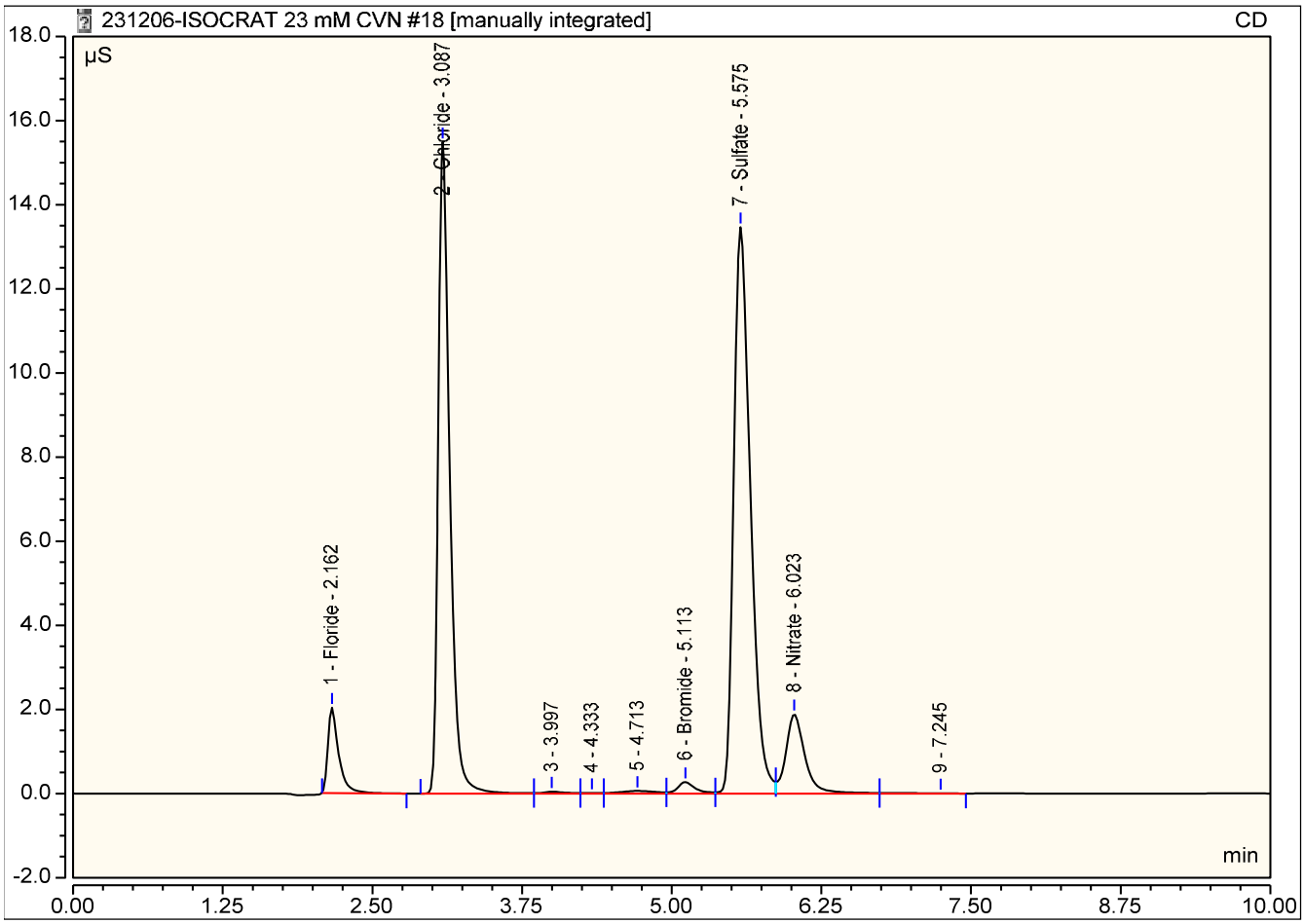
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.414	3.666	0.6896
2	3.09	**Chloride**	M	19.267	165.997	48.9935
5	5.09	**Bromide**	M	0.019	0.092	0.1460
6	5.46	**Sulfate**	M	9.135	43.768	32.4512
7	6.02	**Nitrate**	M ^	0.075	0.388	0.0977
TOTAL:				28.91	213.91	82.38



Peak Integration Report

Sample Name:	**L2371388-02 MS**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 10:37**	*Run Time:*	**10.00**

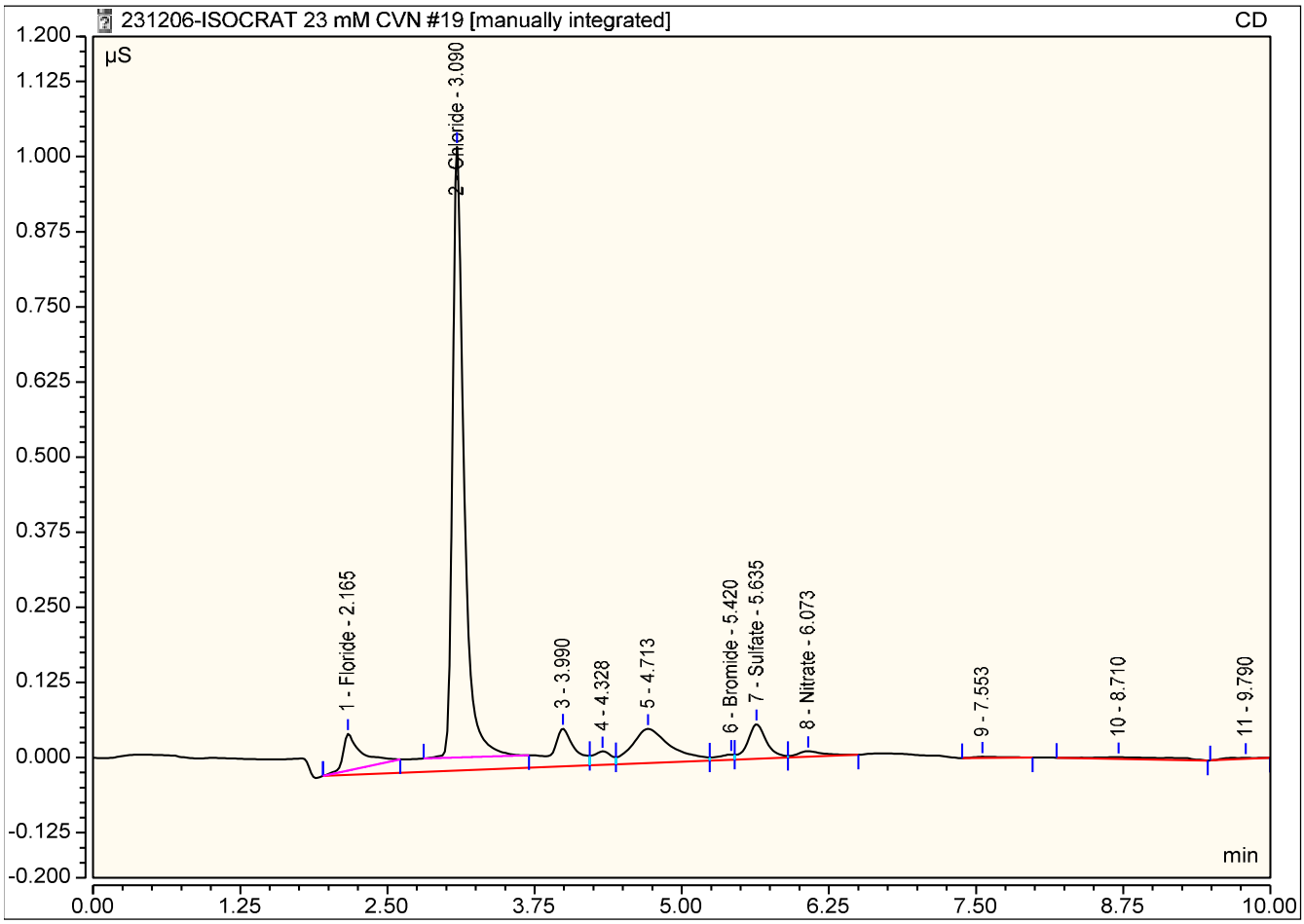
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BMB	0.211	2.032	0.3594
2	3.09	**Chloride**	BM	1.706	15.484	4.4073
6	5.11	**Bromide**	M	0.046	0.272	0.3649
7	5.58	**Sulfate**	M *	2.167	13.463	7.8041
8	6.02	**Nitrate**	M *	0.347	1.884	0.3551
TOTAL:				4.48	33.14	13.29



Peak Integration Report

Sample Name:	**L2371388-02 DUP**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 10:48**	*Run Time:*	**10.00**

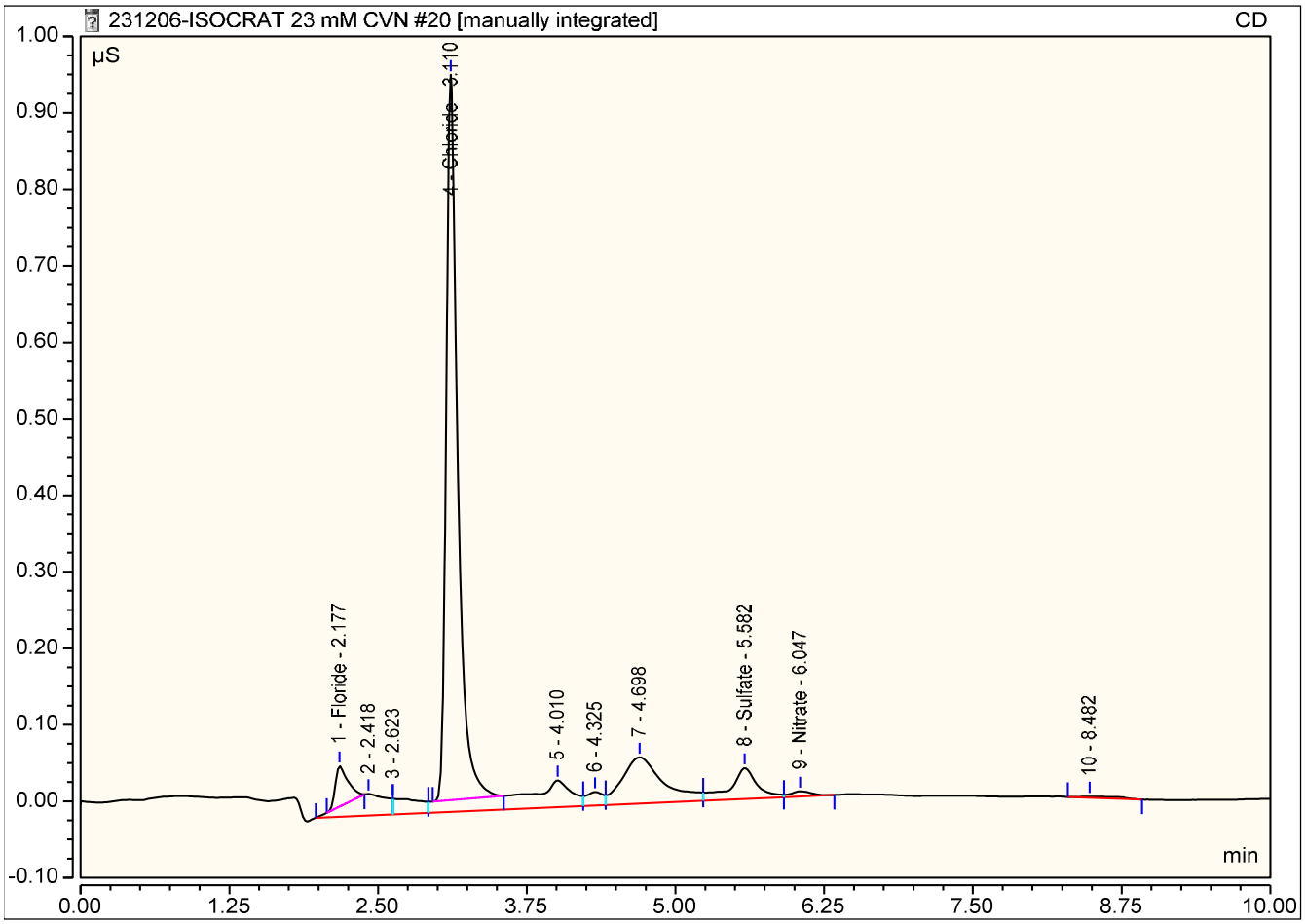
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	Ru*	0.011	0.061	0.0347
2	3.09	**Chloride**	Ru*	0.114	1.016	0.3641
6	5.42	**Bromide**	M	0.001	0.009	0.0026
7	5.64	**Sulfate**	M	0.011	0.058	0.1777
8	6.07	**Nitrate**	MB	0.002	0.009	0.0291
TOTAL:				0.14	1.15	0.61



Peak Integration Report

Sample Name:	**L2371388-02**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 10:59**	*Run Time:*	**10.00**

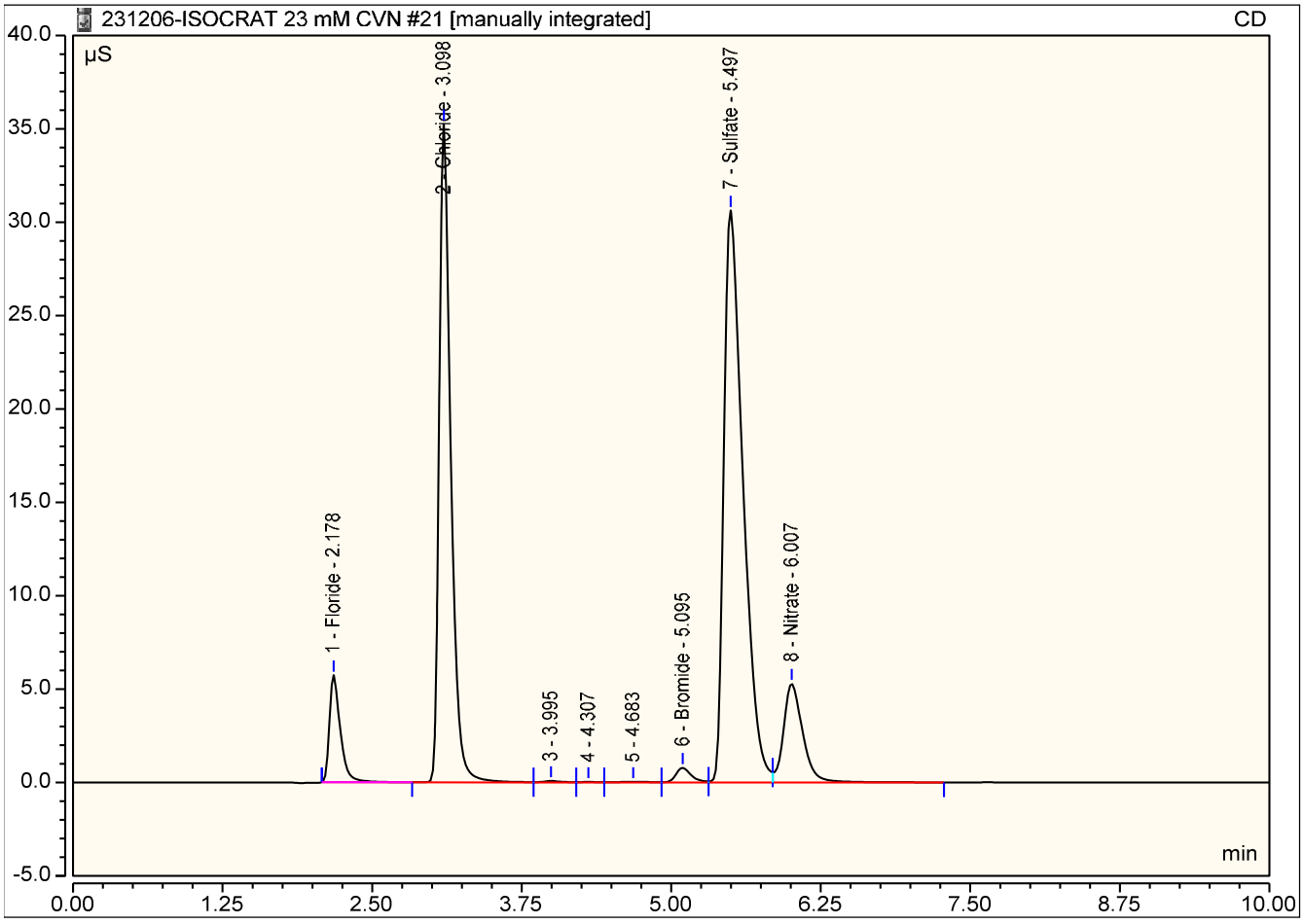
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.18	**Floride**	Ru*	0.007	0.053	0.0273
4	3.11	**Chloride**	Ru*	0.106	0.948	0.3452
8	5.58	**Sulfate**	M	0.011	0.040	0.1774
9	6.05	**Nitrate**	MB	0.001	0.007	0.0281
TOTAL:				0.13	1.05	0.58



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 11:10**	*Run Time:*	**10.00**

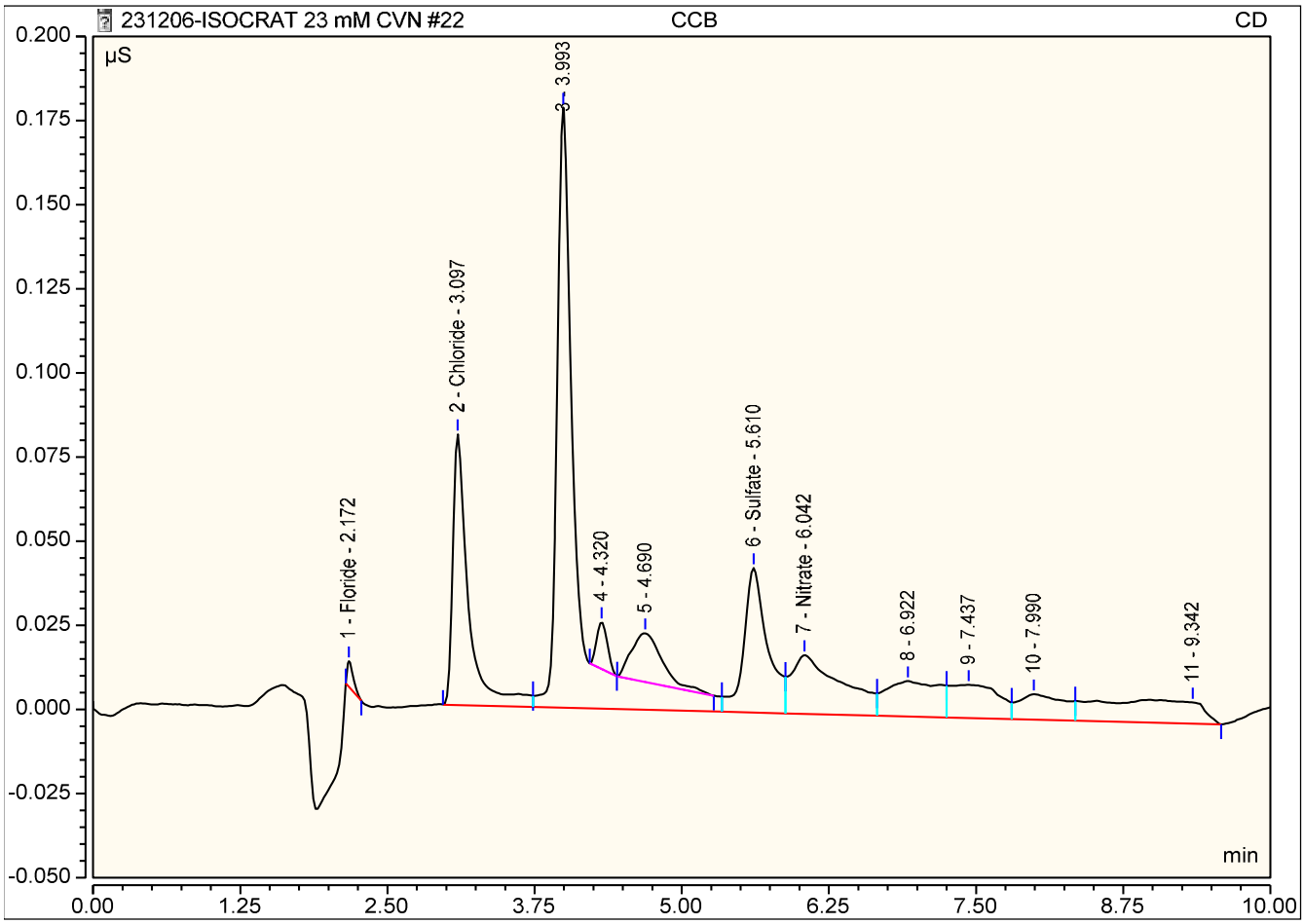
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.18	**Floride**	Ru	0.603	5.735	0.9966
2	3.10	**Chloride**	BM	3.933	35.240	10.0603
6	5.10	**Bromide**	M	0.115	0.785	0.9285
7	5.50	**Sulfate**	M *	5.699	30.616	20.2962
8	6.01	**Nitrate**	MB*	0.978	5.289	0.9503
TOTAL:				11.33	77.66	33.23



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 11:21**	*Run Time:*	**10.00**

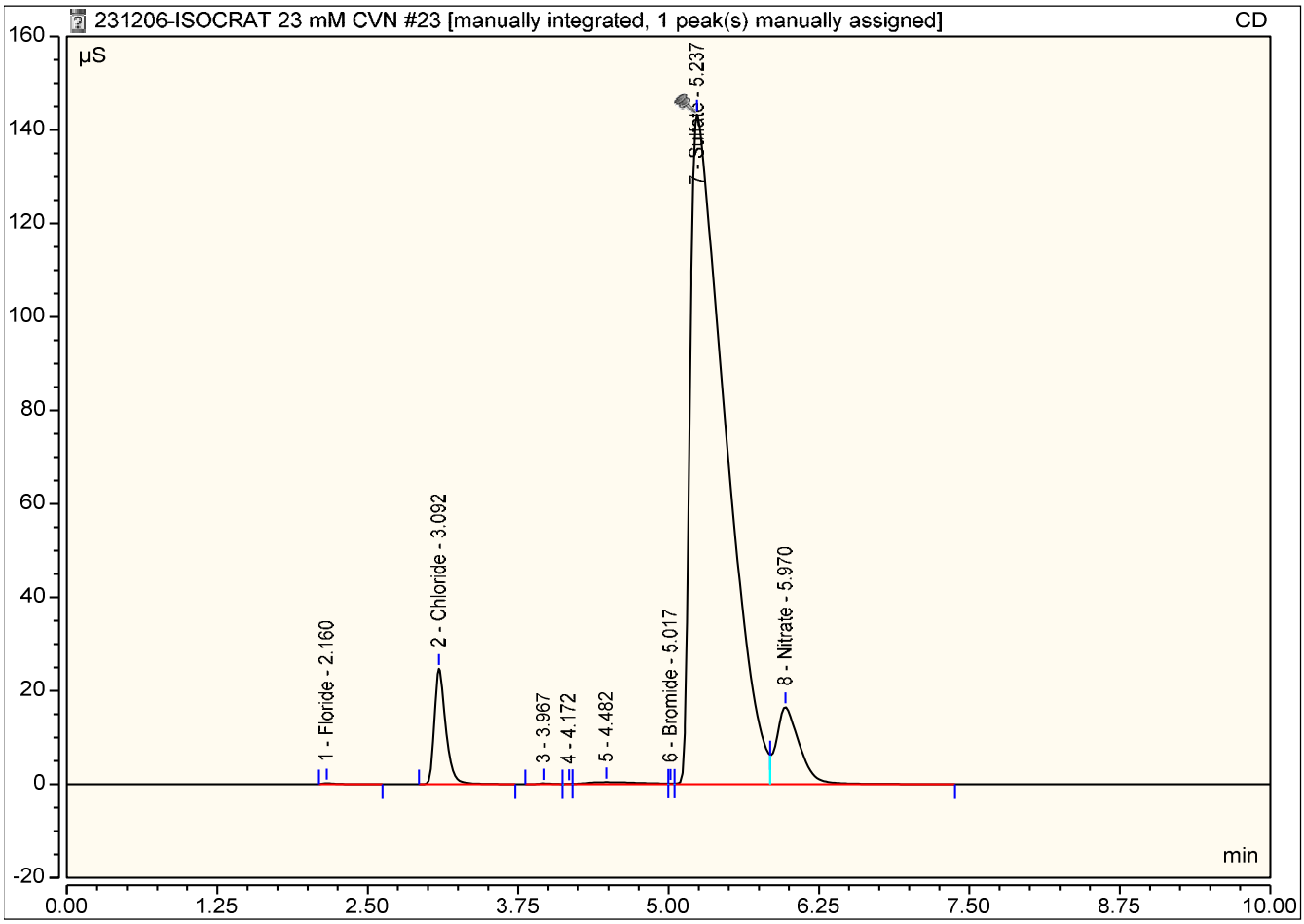
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	BMB	0.000	0.008	0.0173
2	3.10	**Chloride**	BM	0.012	0.081	0.1065
6	5.61	**Sulfate**	M	0.010	0.043	0.1751
7	6.04	**Nitrate**	M	0.009	0.017	0.0350
TOTAL:				0.03	0.15	0.33



Peak Integration Report

Sample Name:	**L2371476-01 CL SO4 NO3**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 11:32**	*Run Time:*	**10.00**

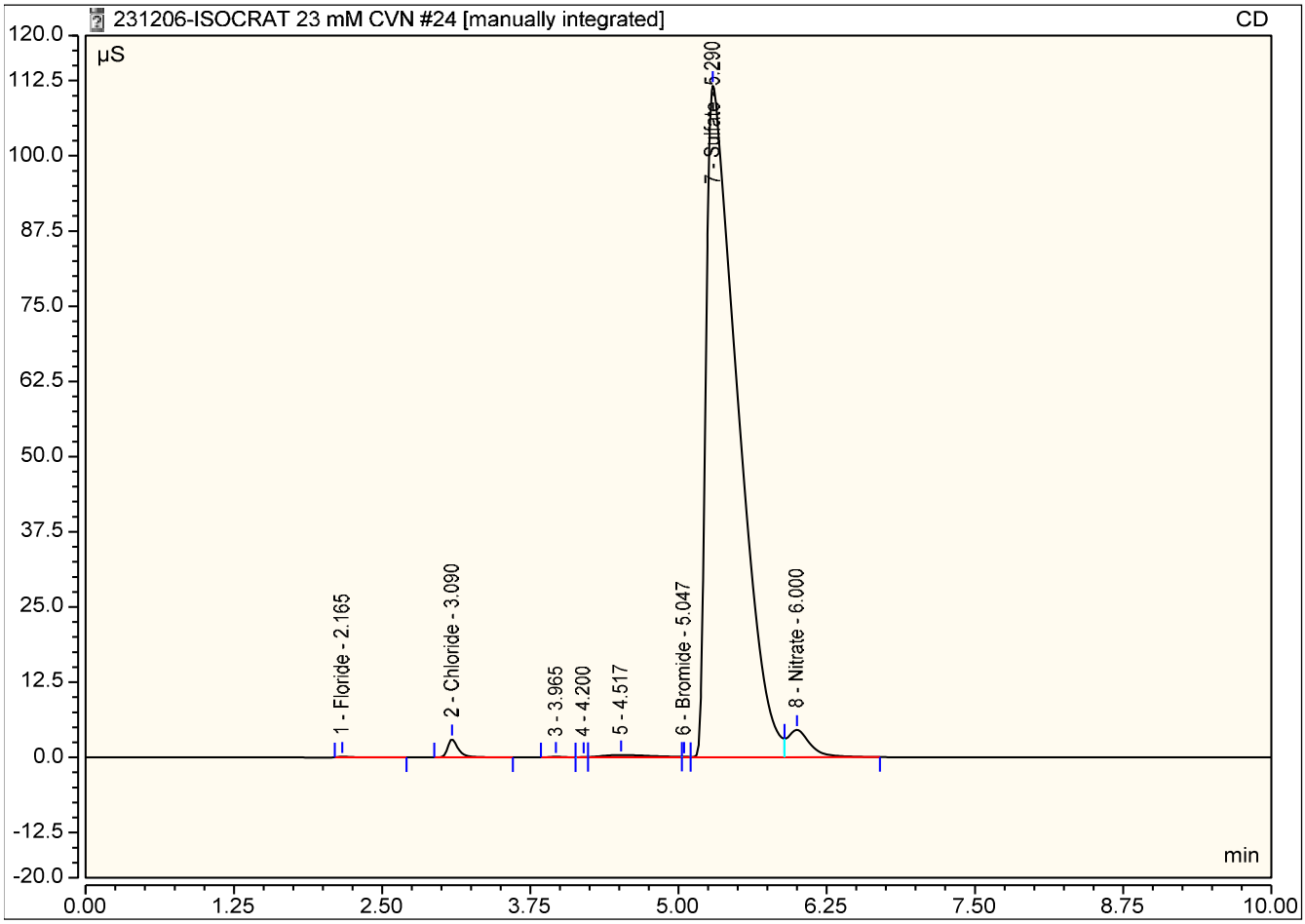
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BMB	0.022	0.188	0.0528
2	3.09	**Chloride**	BMB	2.688	24.742	6.8998
6	5.02	**Bromide**	M	0.007	0.132	0.0474
7	5.24	**Sulfate**	M *^	48.133	143.220	170.3838
8	5.97	**Nitrate**	MB*	3.691	16.525	3.5139
TOTAL:				54.54	184.81	180.90



Peak Integration Report

Sample Name:	**L2371476-02**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 11:43**	*Run Time:*	**10.00**

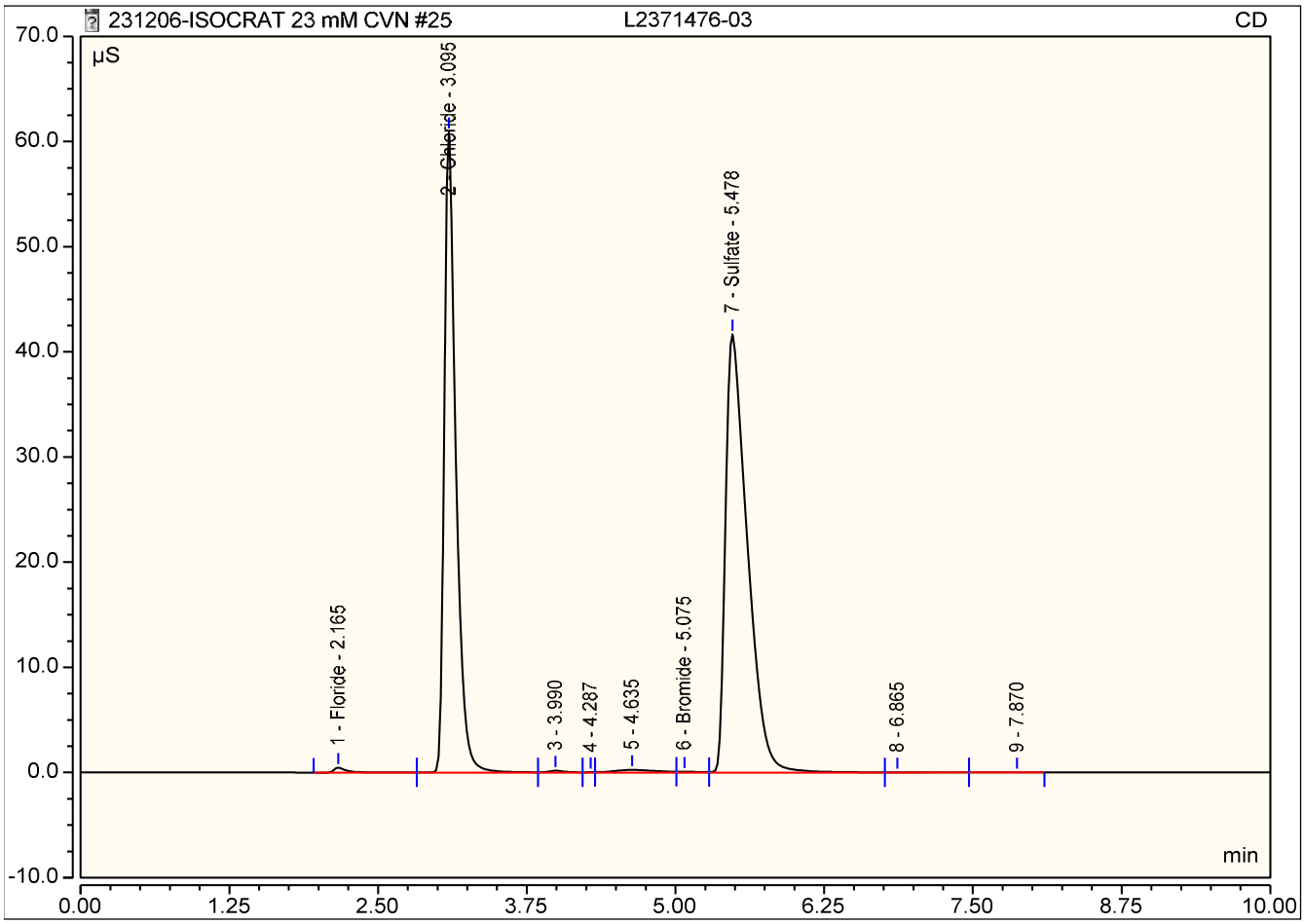
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	BMB	0.017	0.136	0.0435
2	3.09	**Chloride**	BMB	0.313	3.013	0.8707
6	5.05	**Bromide**	M	0.005	0.076	0.0333
7	5.29	**Sulfate**	M *	34.354	111.611	121.6501
8	6.00	**Nitrate**	MB	1.012	4.551	0.9824
TOTAL:				35.70	119.39	123.58



Peak Integration Report

Sample Name:	**L2371476-03**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 11:54**	*Run Time:*	**10.00**

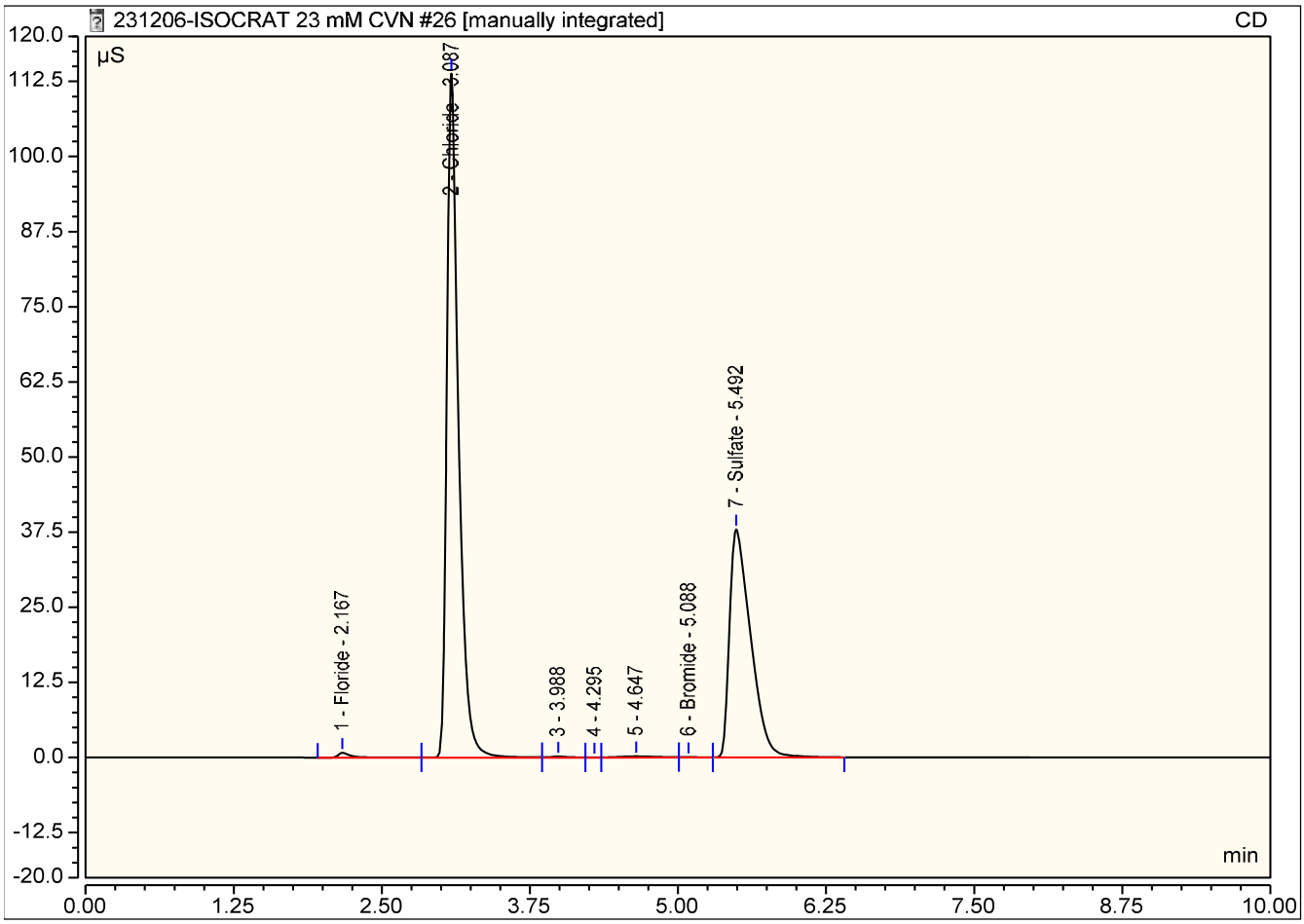
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	BM	0.075	0.495	0.1381
2	3.10	**Chloride**	M	6.905	60.919	17.6069
6	5.08	**Bromide**	M	0.019	0.091	0.1475
7	5.48	**Sulfate**	M	8.873	41.665	31.5248
TOTAL:				15.87	103.17	49.42



Peak Integration Report

Sample Name:	**L2371476-04**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 12:05**	*Run Time:*	**10.00**

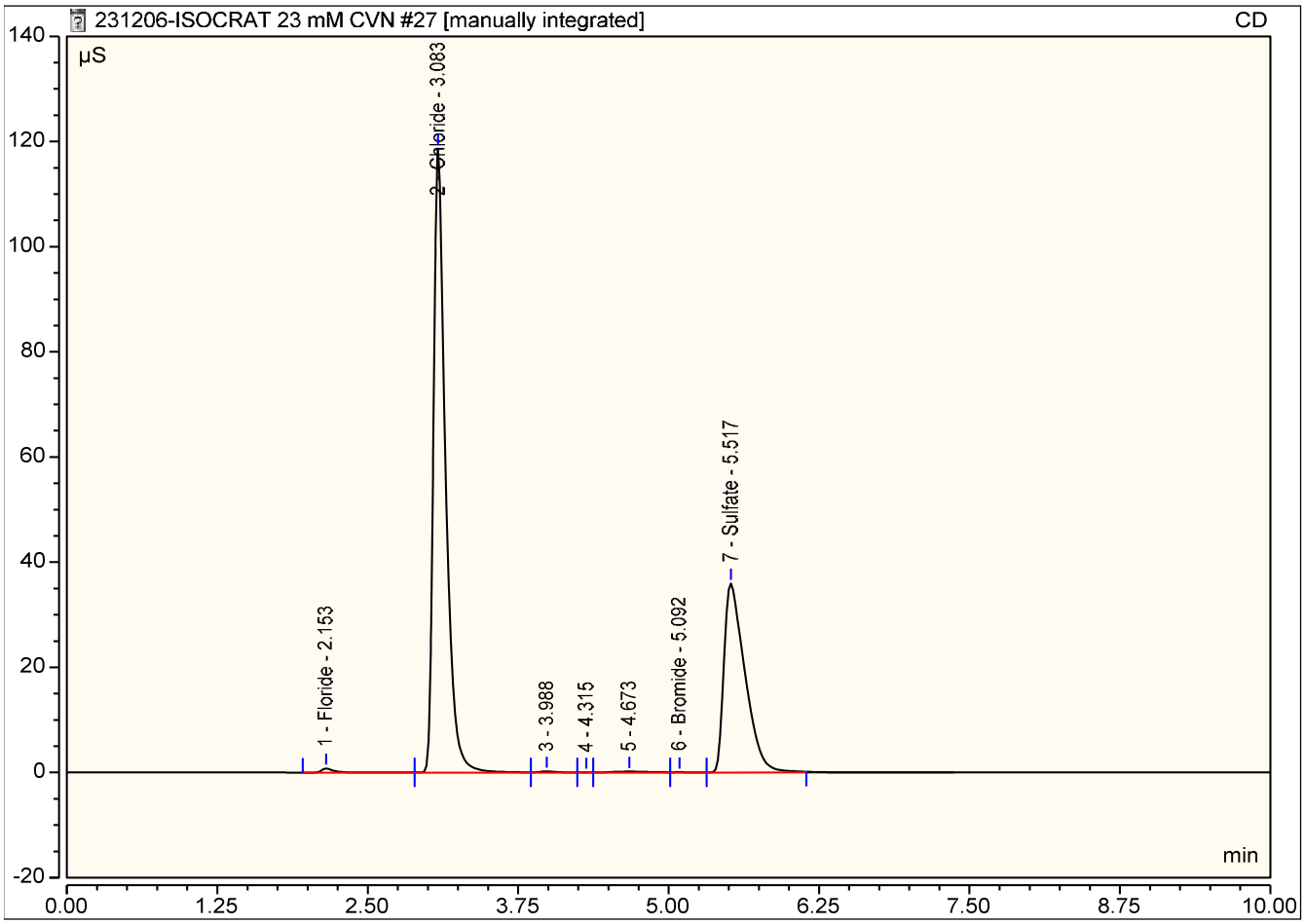
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	BM	0.109	0.827	0.1936
2	3.09	**Chloride**	M	13.028	113.820	33.1517
6	5.09	**Bromide**	M	0.015	0.069	0.1136
7	5.49	**Sulfate**	M *	7.821	37.978	27.8028
TOTAL:				20.97	152.69	61.26



Peak Integration Report

Sample Name:	**L2371476-05**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 12:16**	*Run Time:*	**10.00**

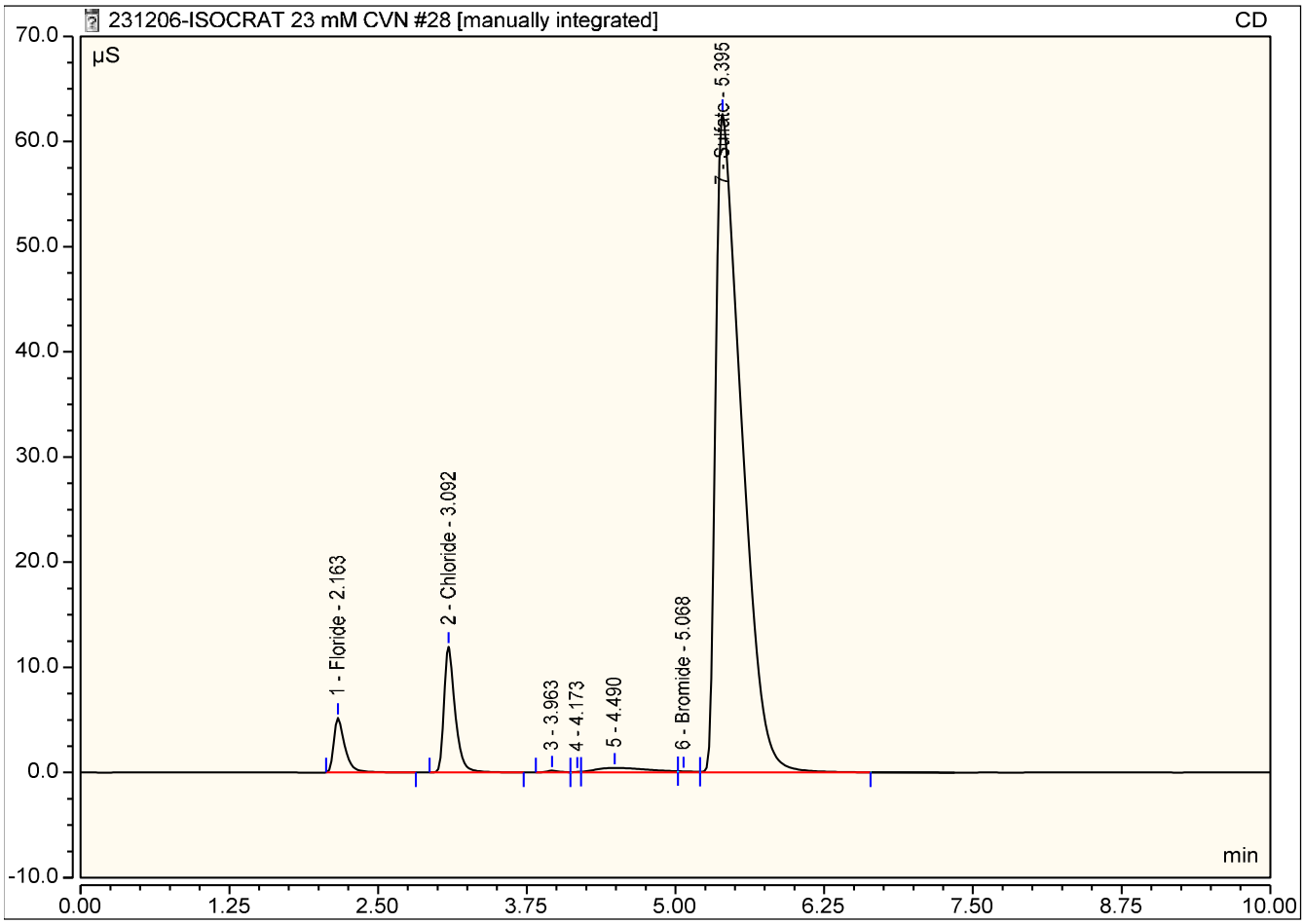
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BM	0.103	0.811	0.1844
2	3.08	**Chloride**	M	13.778	118.607	35.0574
6	5.09	**Bromide**	M	0.014	0.067	0.1066
7	5.52	**Sulfate**	M *	7.304	35.968	25.9722
TOTAL:				21.20	155.45	61.32



Peak Integration Report

Sample Name:	**L2371480-01**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 12:27**	*Run Time:*	**10.00**

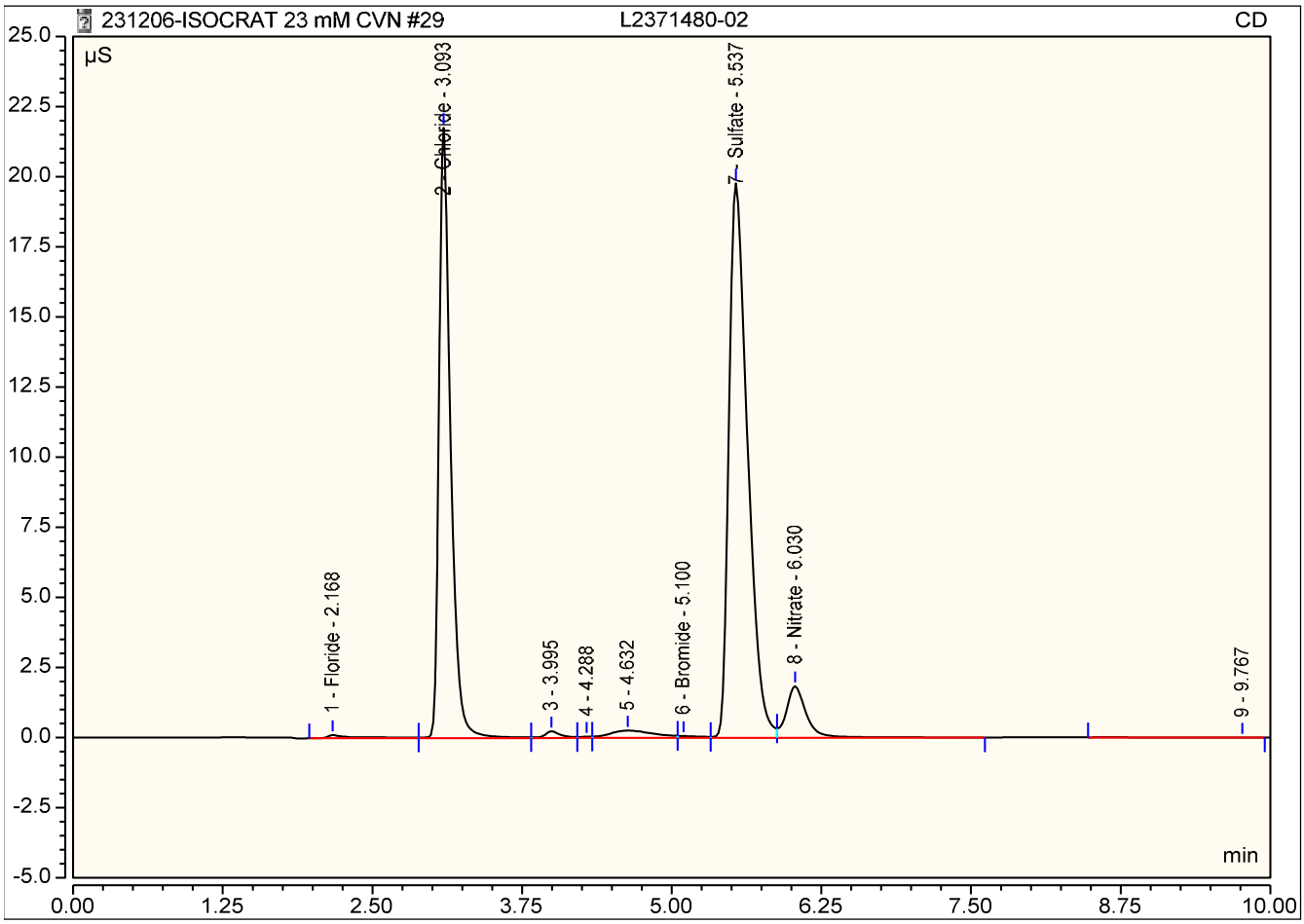
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BMB	0.562	5.180	0.9302
2	3.09	**Chloride**	BMB	1.291	11.955	3.3516
6	5.07	**Bromide**	M	0.017	0.106	0.1281
7	5.40	**Sulfate**	M *	15.760	62.610	55.8825
TOTAL:				17.63	79.85	60.29



Peak Integration Report

Sample Name:	**L2371480-02**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 12:38**	*Run Time:*	**10.00**

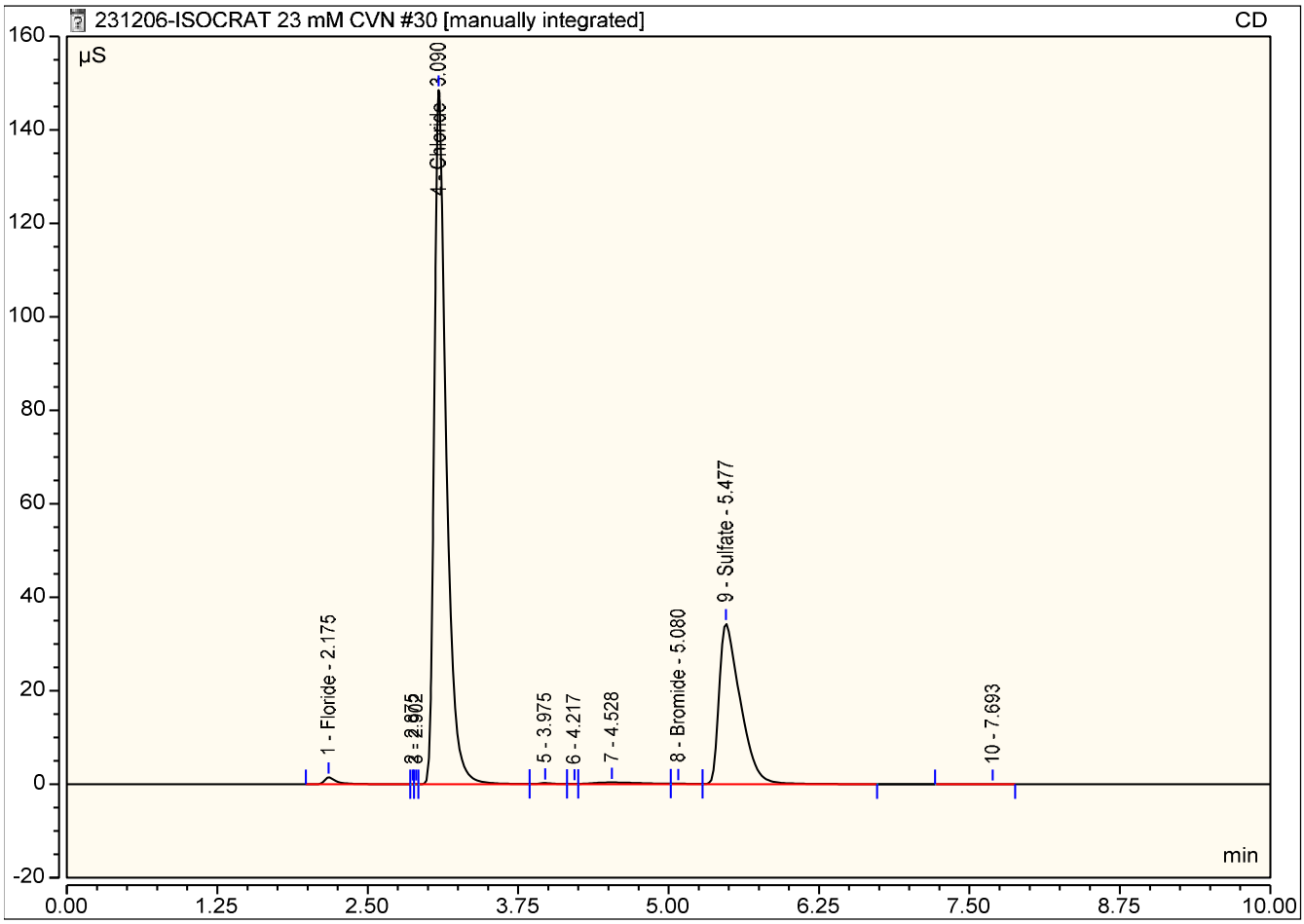
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	BM	0.033	0.116	0.0702
2	3.09	**Chloride**	M	2.416	21.758	6.2099
6	5.10	**Bromide**	M	0.014	0.066	0.1072
7	5.54	**Sulfate**	M	3.567	19.768	12.7577
8	6.03	**Nitrate**	MB	0.354	1.841	0.3614
TOTAL:				6.39	43.55	19.51



Peak Integration Report

Sample Name:	**L2371480-03**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 12:49**	*Run Time:*	**10.00**

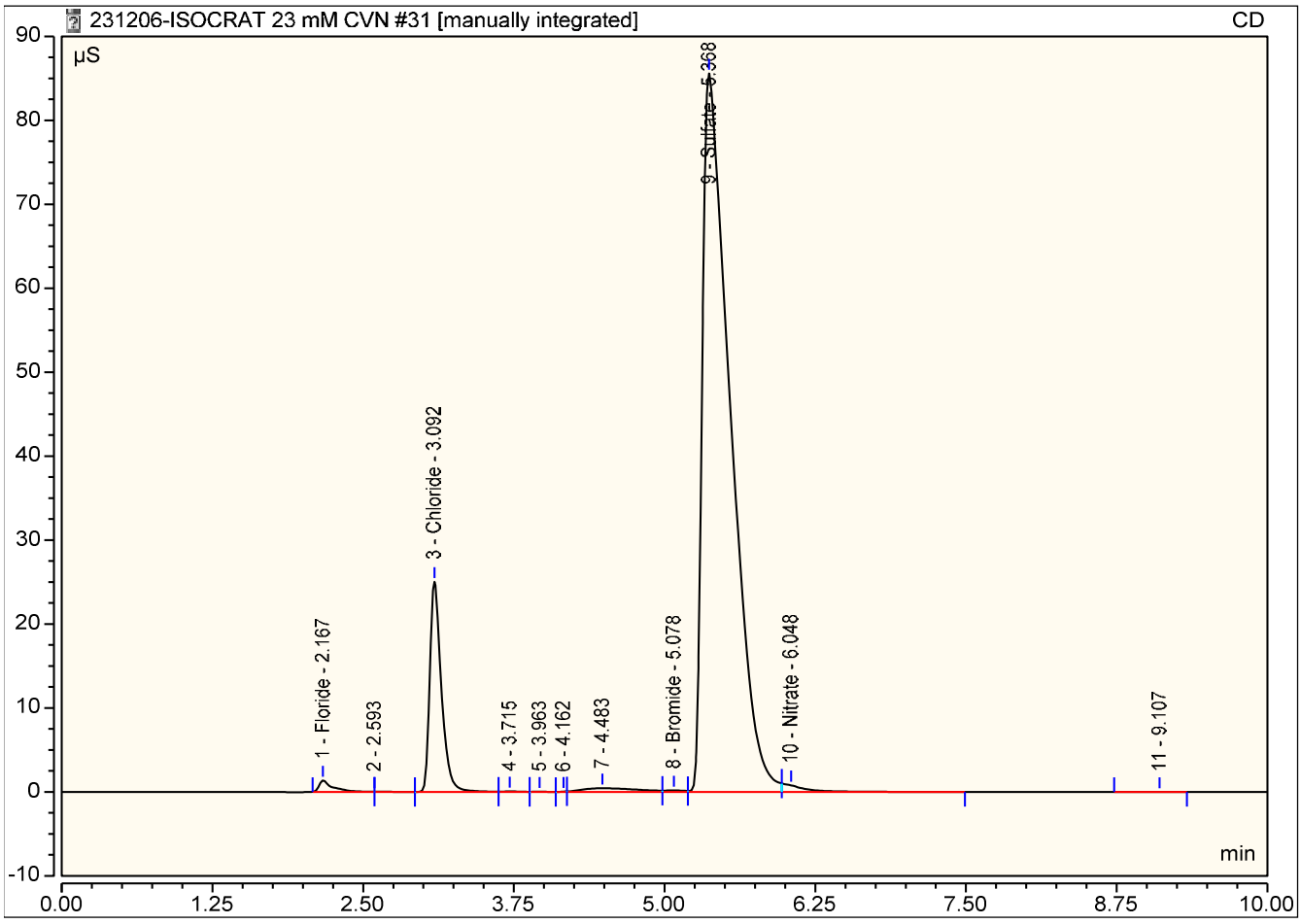
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.18	**Floride**	BM	0.188	1.520	0.3217
4	3.09	**Chloride**	M	17.174	148.533	43.6786
8	5.08	**Bromide**	M	0.025	0.121	0.1969
9	5.48	**Sulfate**	M *	7.038	34.340	25.0339
TOTAL:				24.43	184.51	69.23



Peak Integration Report

Sample Name:	**L2371480-04**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 12:59**	*Run Time:*	**10.00**

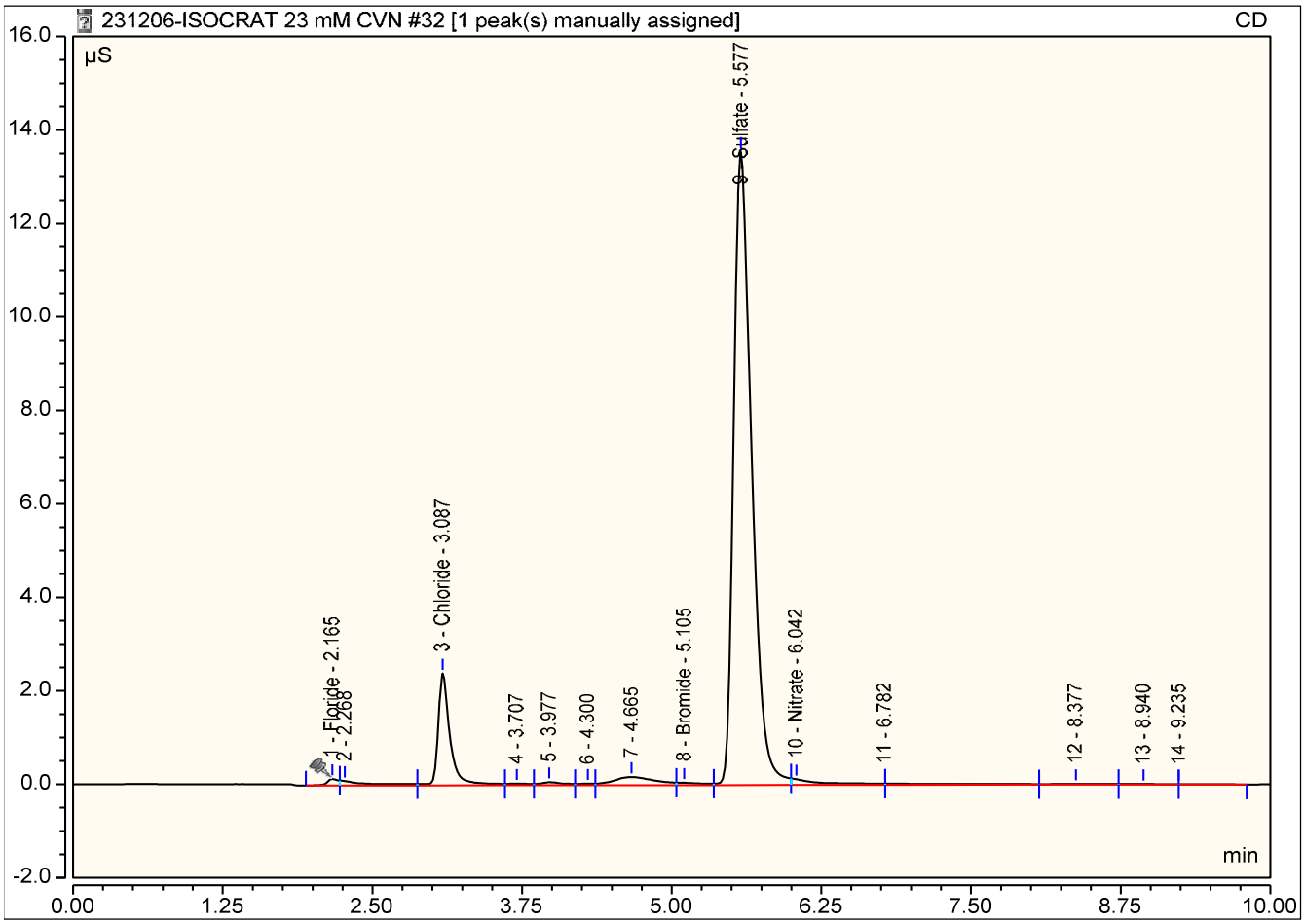
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	BM *	0.185	1.380	0.3170
3	3.09	**Chloride**	M	2.767	25.042	7.0993
8	5.08	**Bromide**	M	0.034	0.189	0.2661
9	5.37	**Sulfate**	M *	22.938	85.585	81.2694
10	6.05	**Nitrate**	MB	0.195	0.795	0.2114
TOTAL:				26.12	112.99	89.16



Peak Integration Report

Sample Name:	**XL2371480-04; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 13:10**	*Run Time:*	**10.00**

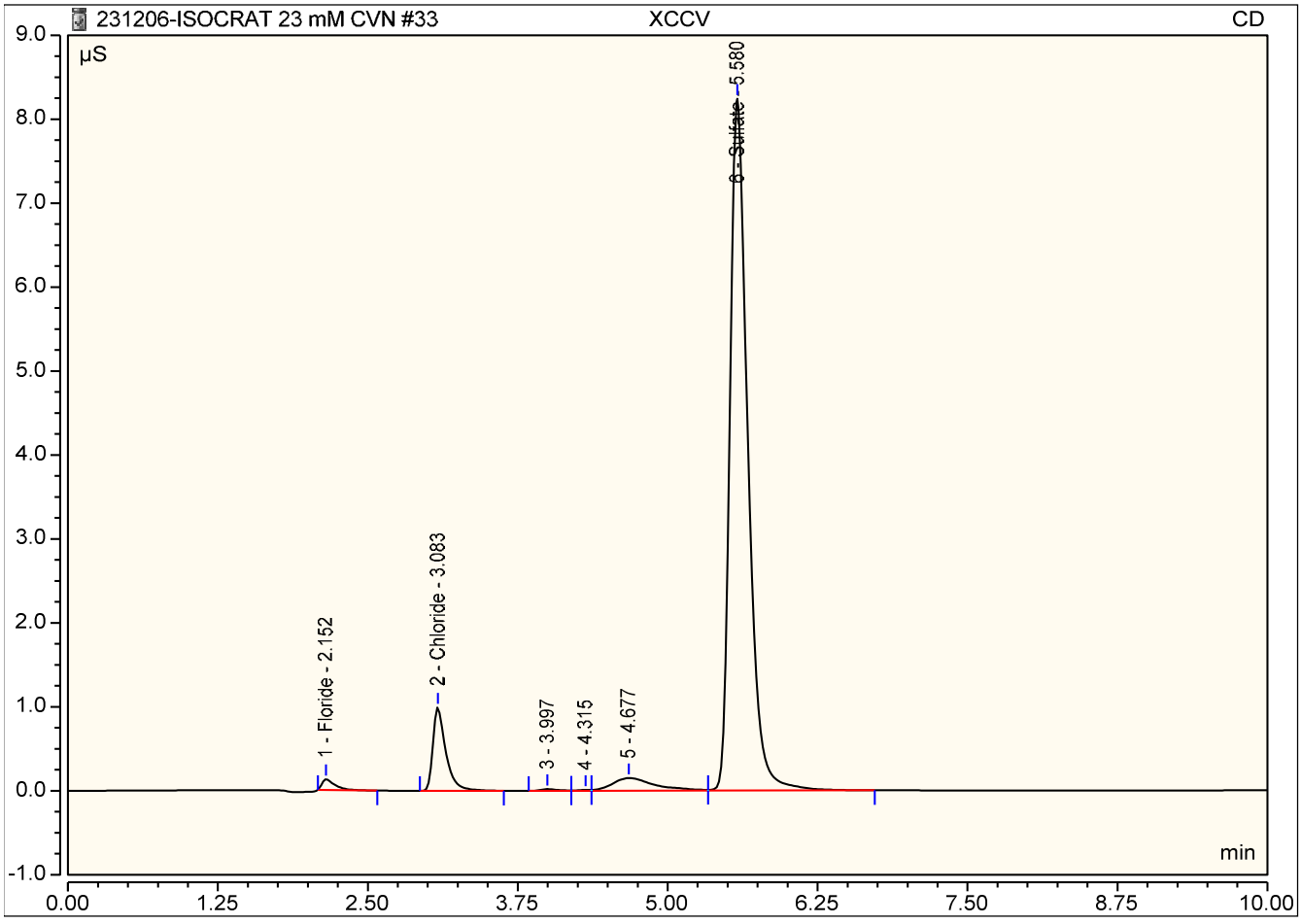
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	BM ^	0.014	0.141	0.3982
3	3.09	**Chloride**	M	0.271	2.394	7.6354
8	5.11	**Bromide**	M	0.012	0.050	0.9033
9	5.58	**Sulfate**	M	2.348	13.550	84.4504
10	6.04	**Nitrate**	M	0.040	0.123	0.6451
TOTAL:				2.69	16.26	94.03



Peak Integration Report

Sample Name:	**XCCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 13:21**	*Run Time:*	**10.00**

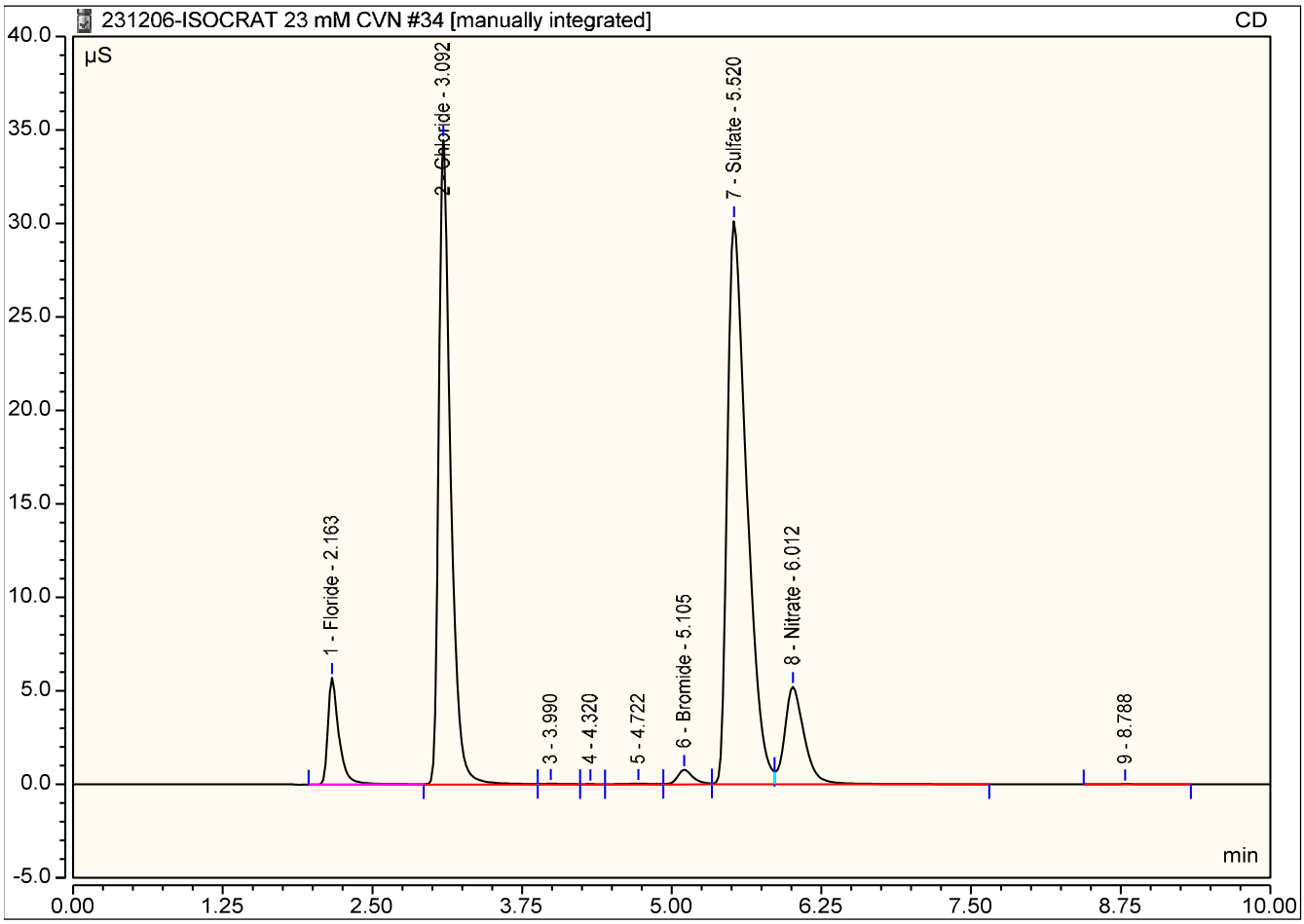
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.15	**Floride**	BMB	0.016	0.130	0.0433
2	3.08	**Chloride**	BMB	0.123	0.993	0.3878
6	5.58	**Sulfate**	MB	1.424	8.241	5.1768
TOTAL:				1.56	9.36	5.61



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 13:32**	*Run Time:*	**10.00**

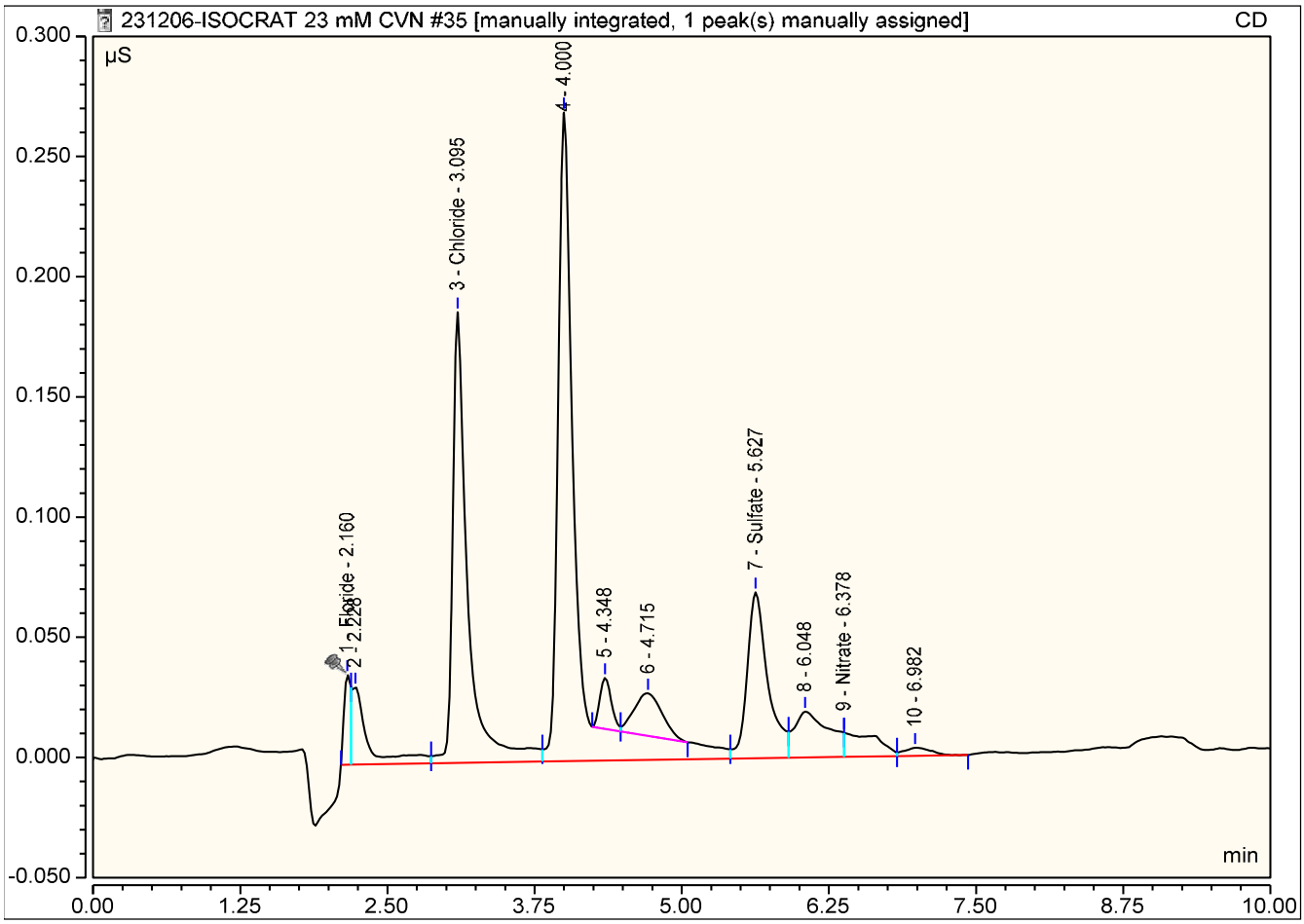
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	Ru	0.607	5.717	1.0030
2	3.09	**Chloride**	BM	3.946	34.477	10.0924
6	5.11	**Bromide**	M	0.120	0.784	0.9669
7	5.52	**Sulfate**	M *	5.670	30.139	20.1928
8	6.01	**Nitrate**	MB*	0.999	5.220	0.9702
TOTAL:				11.34	76.34	33.23



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 13:43**	*Run Time:*	**10.00**

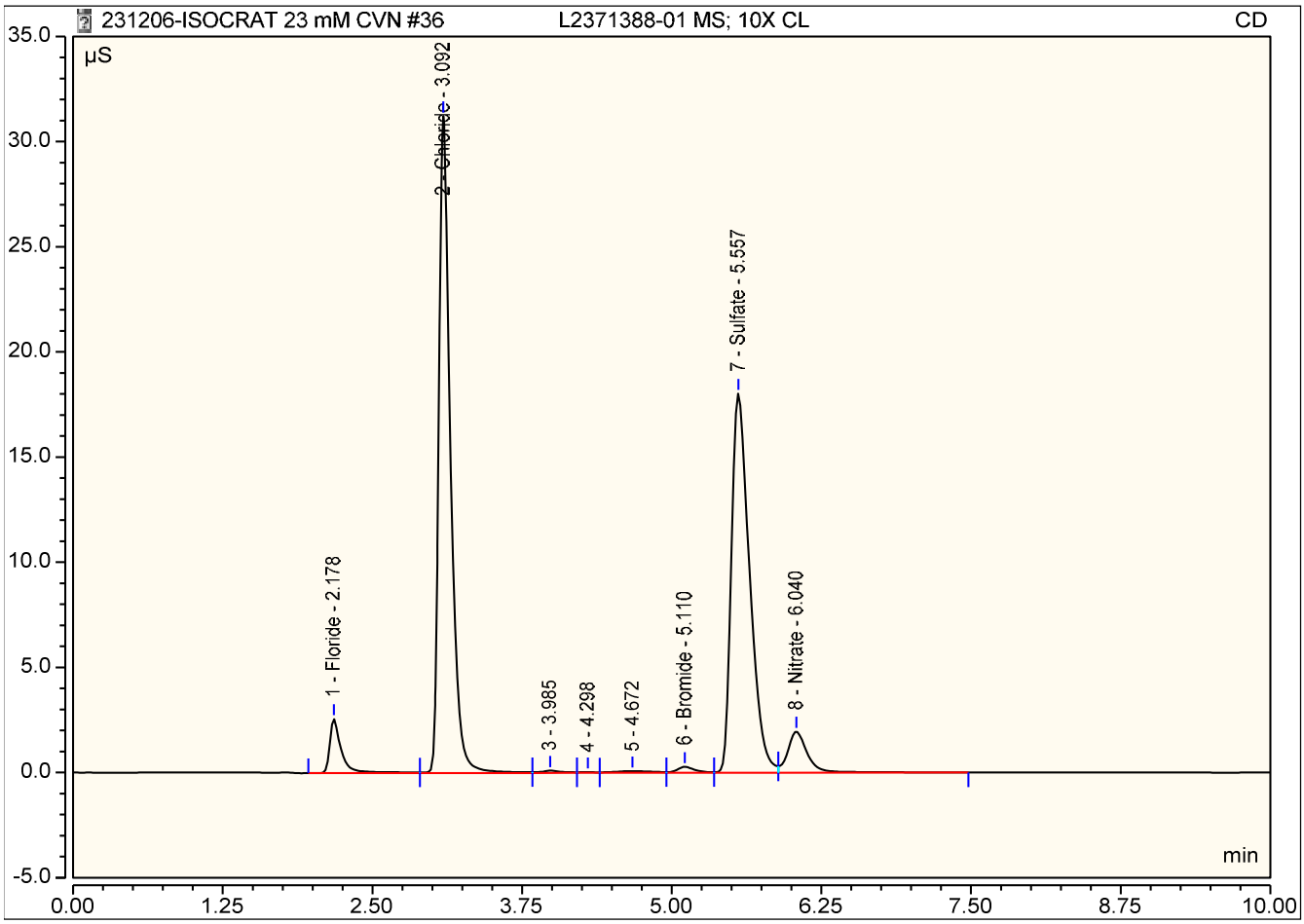
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM *^	0.002	0.037	0.0203
3	3.10	**Chloride**	M *	0.028	0.188	0.1458
7	5.63	**Sulfate**	M *	0.014	0.069	0.1898
9	6.38	**Nitrate**	M *	0.003	0.010	0.0298
TOTAL:				0.05	0.30	0.39



Peak Integration Report

Sample Name:	**L2371388-01 MS; 10X CL**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 13:54**	*Run Time:*	**10.00**

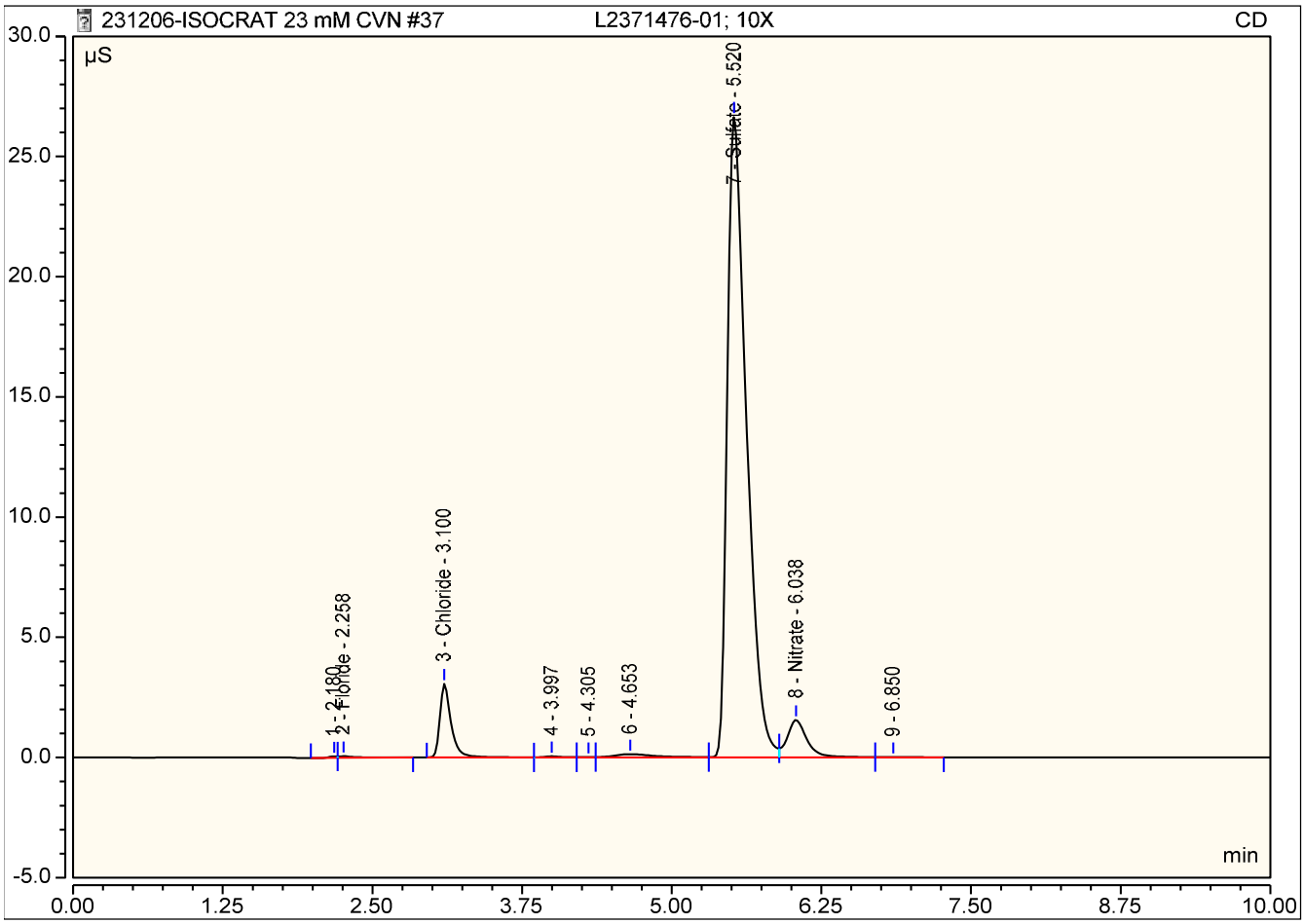
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.18	**Floride**	BM	0.291	2.578	4.8942
2	3.09	**Chloride**	M	3.480	31.234	89.1124
6	5.11	**Bromide**	M	0.049	0.288	3.9095
7	5.56	**Sulfate**	M	3.172	18.032	113.5870
8	6.04	**Nitrate**	MB	0.377	1.961	3.8311
TOTAL:				7.37	54.09	215.33



Peak Integration Report

Sample Name:	**L2371476-01; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 14:05**	*Run Time:*	**10.00**

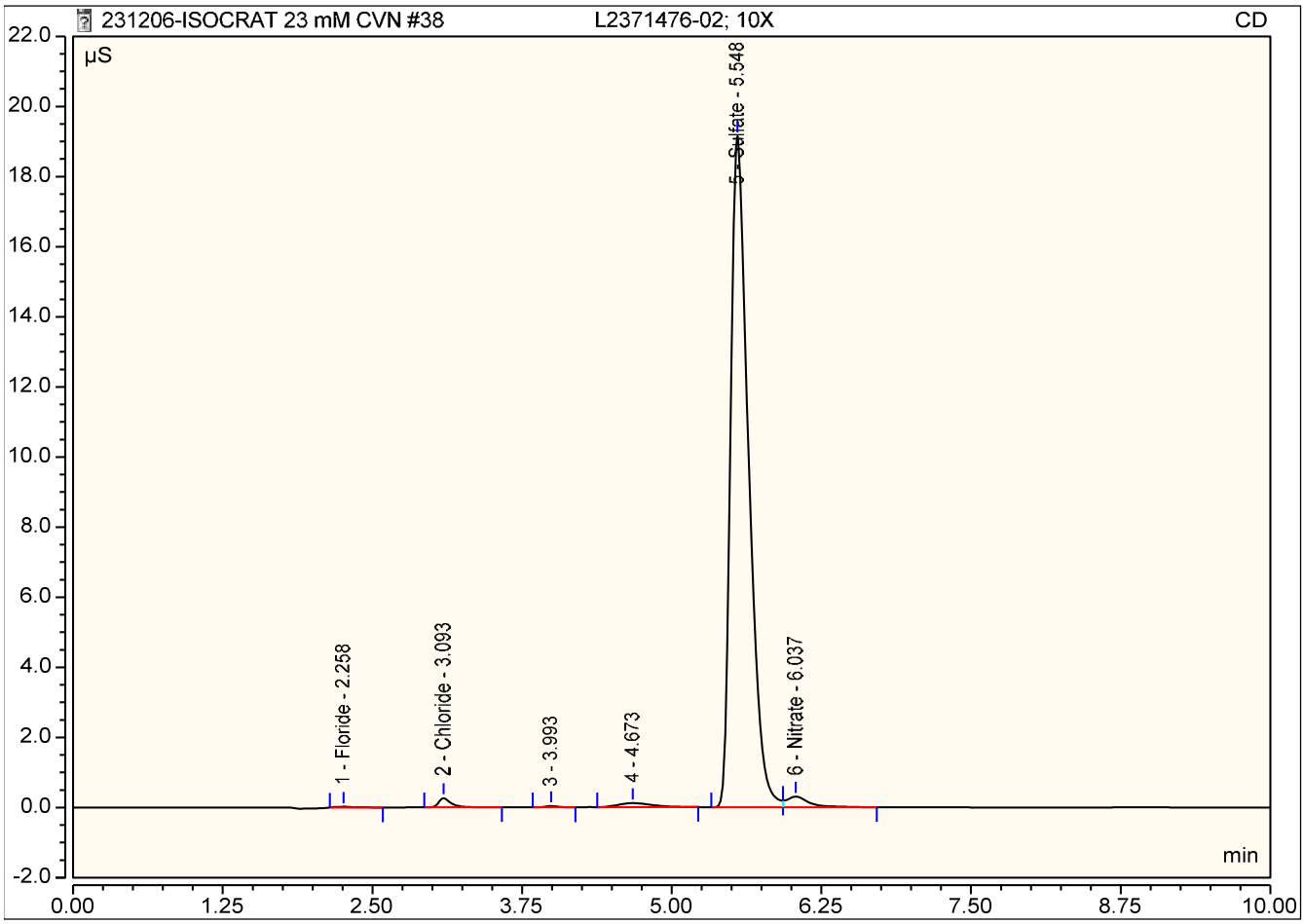
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.26	**Floride**	MB	0.012	0.067	0.3589
3	3.10	**Chloride**	BM	0.326	3.061	9.0243
7	5.52	**Sulfate**	M	4.960	26.655	176.8328
8	6.04	**Nitrate**	M	0.300	1.556	3.0974
TOTAL:				5.60	31.34	189.31



Peak Integration Report

Sample Name:	**L2371476-02; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 14:16**	*Run Time:*	**10.00**

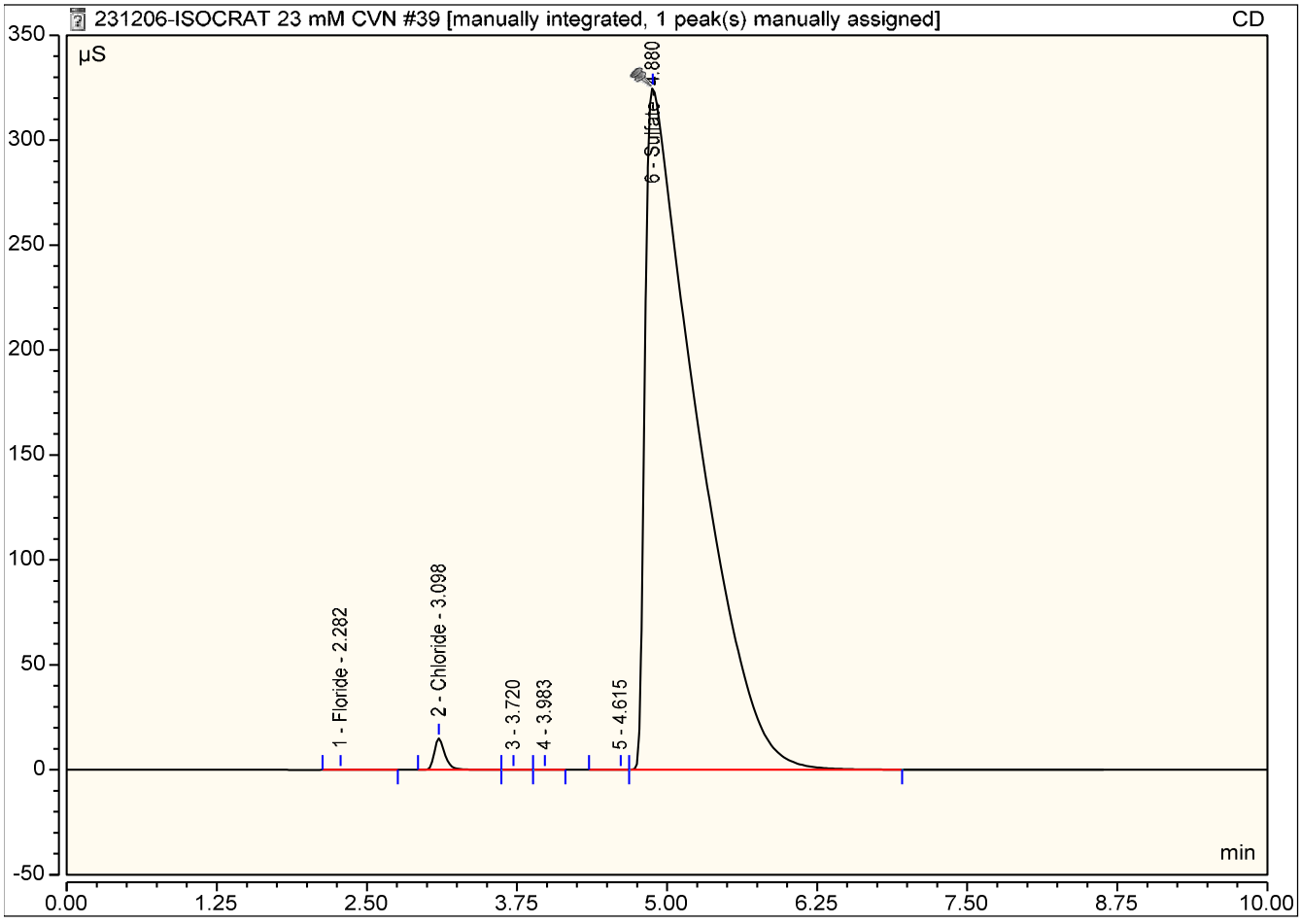
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.26	**Floride**	BMB	0.003	0.020	0.2146
2	3.09	**Chloride**	BMB	0.031	0.267	1.5434
5	5.55	**Sulfate**	BM	3.325	19.146	118.9912
6	6.04	**Nitrate**	MB	0.067	0.306	0.9026
TOTAL:				3.43	19.74	121.65



Peak Integration Report

Sample Name:	**XL2370783-01 F BR CL SO4; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 14:27**	*Run Time:*	**10.00**

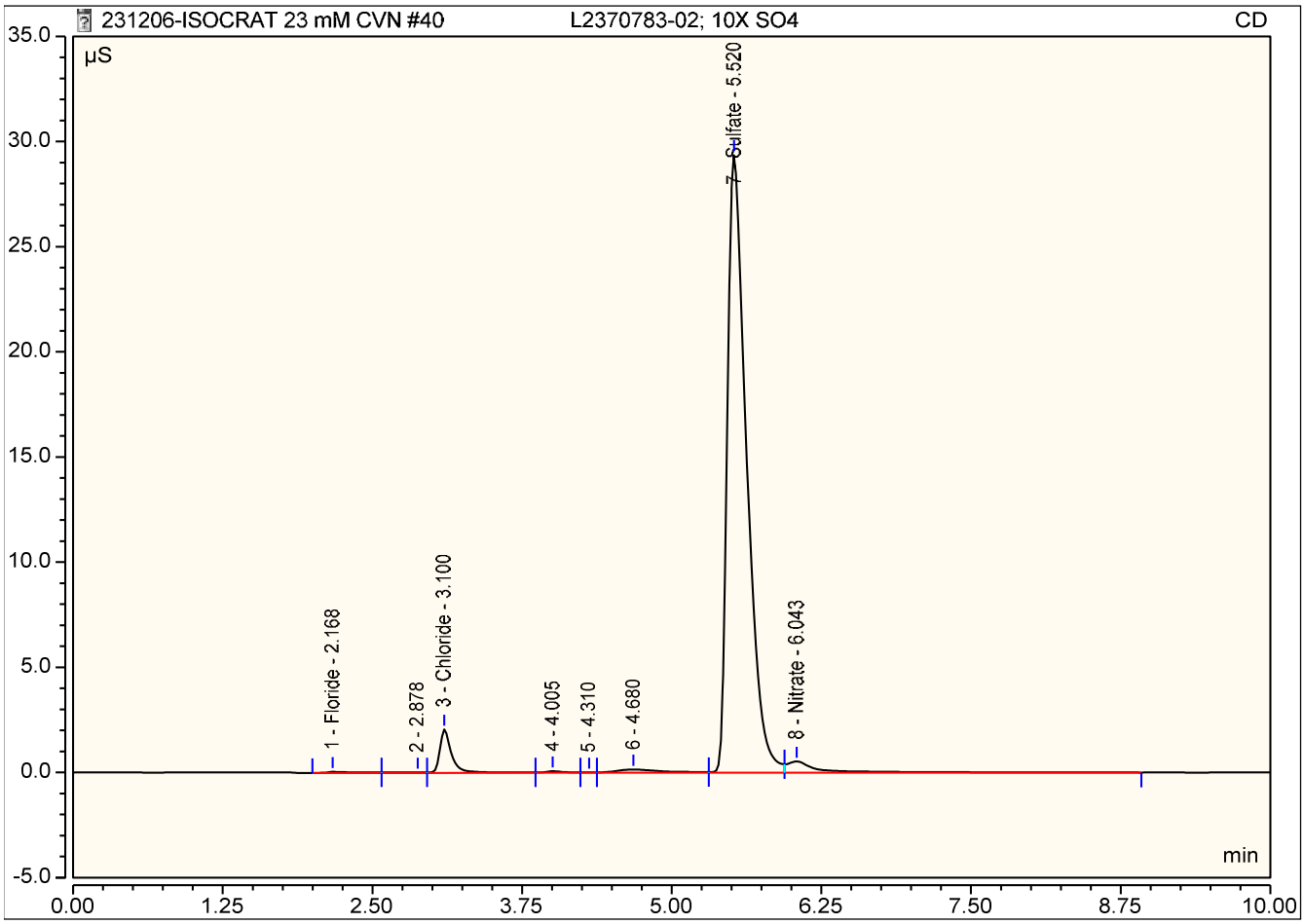
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.28	**Floride**	BMB	0.019	0.098	0.4668
2	3.10	**Chloride**	BM	1.542	15.039	39.9026
6	4.88	**Sulfate**	M *^	162.115	324.783	5735.3935
TOTAL:				163.68	339.92	5775.76



Peak Integration Report

Sample Name:	**L2370783-02; 10X SO4**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 14:38**	*Run Time:*	**10.00**

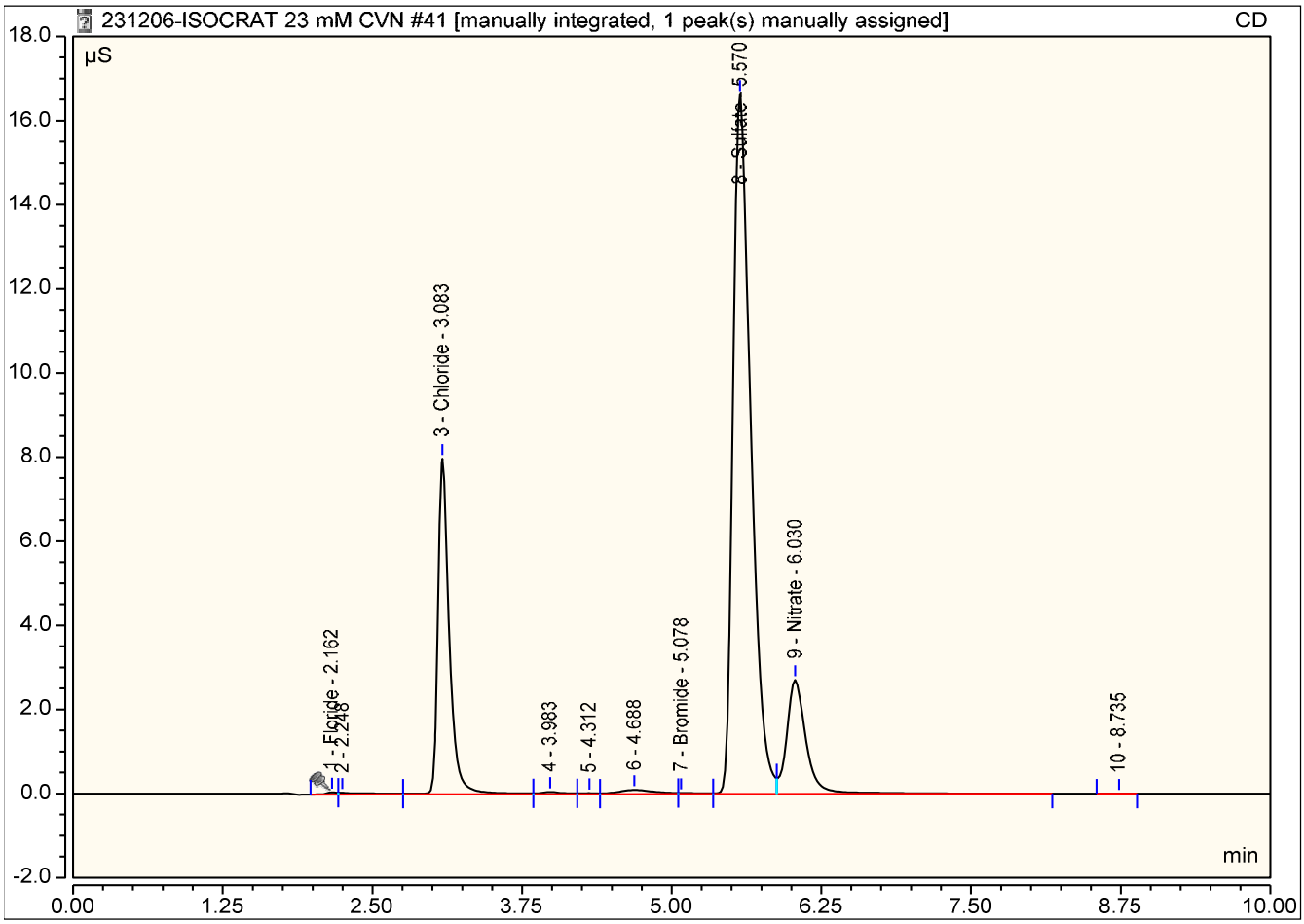
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	BM	0.015	0.053	0.4051
3	3.10	**Chloride**	M	0.237	2.074	6.7706
7	5.52	**Sulfate**	M	5.473	29.372	194.9638
8	6.04	**Nitrate**	MB	0.180	0.540	1.9649
TOTAL:				5.90	32.04	204.10



Peak Integration Report

Sample Name:	**L2370783-03; 10X SO4**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 14:49**	*Run Time:*	**10.00**

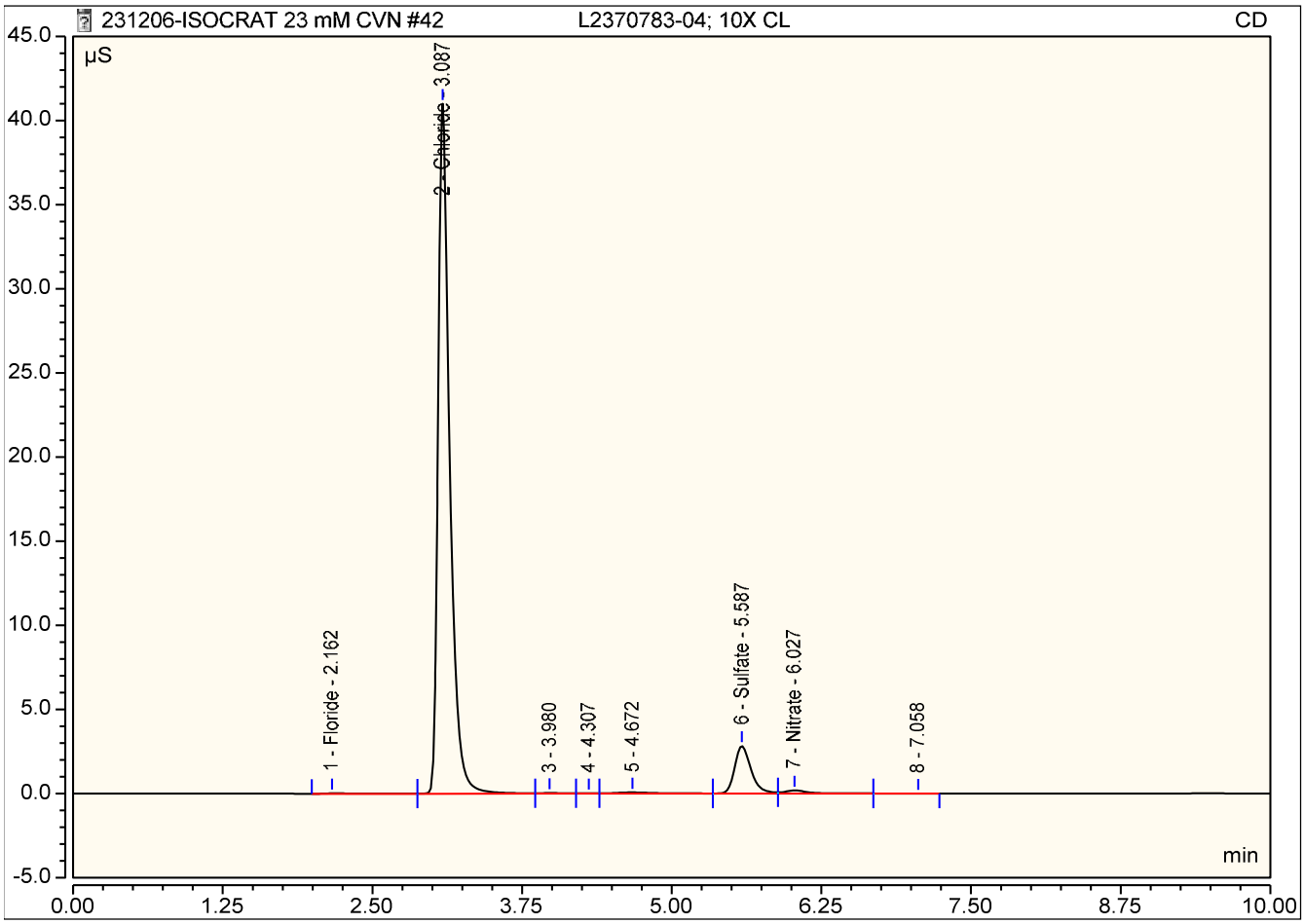
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM ^	0.005	0.051	0.2466
3	3.08	**Chloride**	M	0.868	7.977	22.7999
7	5.08	**Bromide**	M	0.006	0.026	0.3678
8	5.57	**Sulfate**	M *	2.858	16.620	102.4963
9	6.03	**Nitrate**	MB*	0.507	2.710	5.0542
TOTAL:				4.24	27.38	130.96



Peak Integration Report

Sample Name:	**L2370783-04; 10X CL**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 15:00**	*Run Time:*	**10.00**

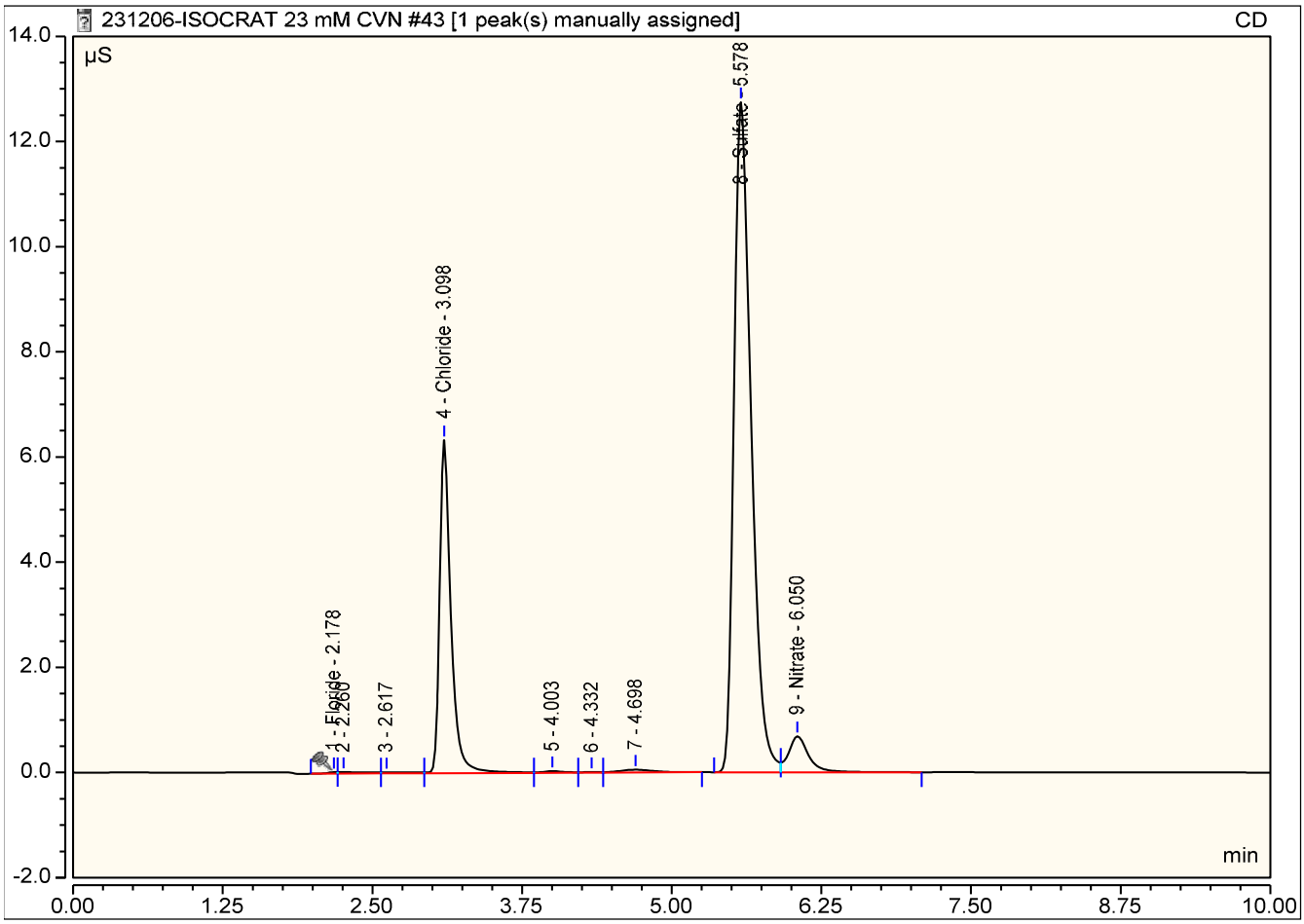
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.017	0.035	0.4355
2	3.09	**Chloride**	M	4.567	41.013	116.6928
6	5.59	**Sulfate**	M	0.448	2.834	17.2448
7	6.03	**Nitrate**	M	0.045	0.194	0.6978
TOTAL:				5.08	44.08	135.07



Peak Integration Report

Sample Name:	**L2370783-05; 10X SO4**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 15:10**	*Run Time:*	**10.00**

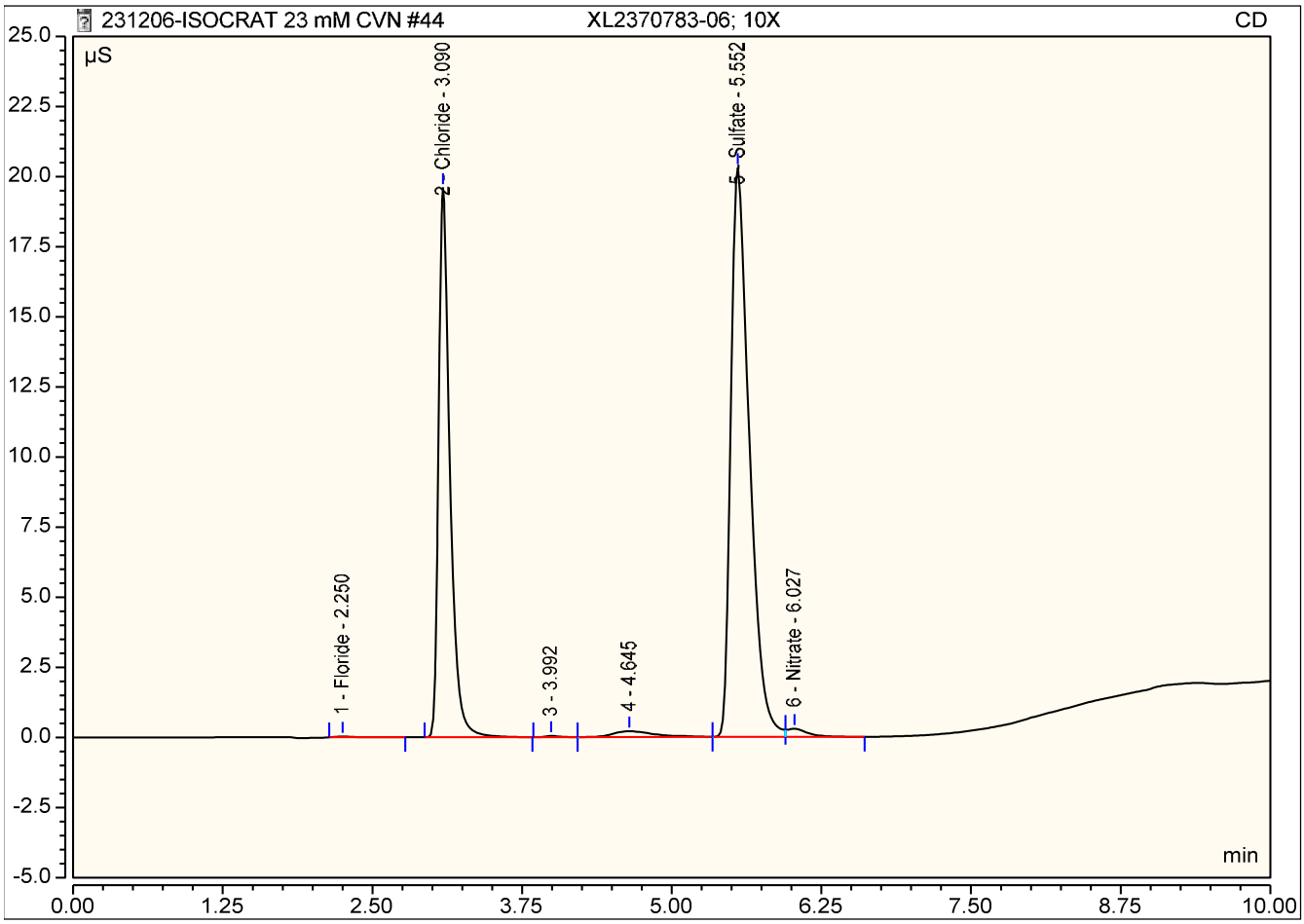
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.18	**Floride**	BM ^	0.003	0.028	0.2083
4	3.10	**Chloride**	M	0.687	6.333	18.2017
8	5.58	**Sulfate**	BM	2.102	12.743	75.7340
9	6.05	**Nitrate**	MB	0.134	0.686	1.5306
TOTAL:				2.93	19.79	95.67



Peak Integration Report

Sample Name:	**XL2370783-06; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 15:21**	*Run Time:*	**10.00**

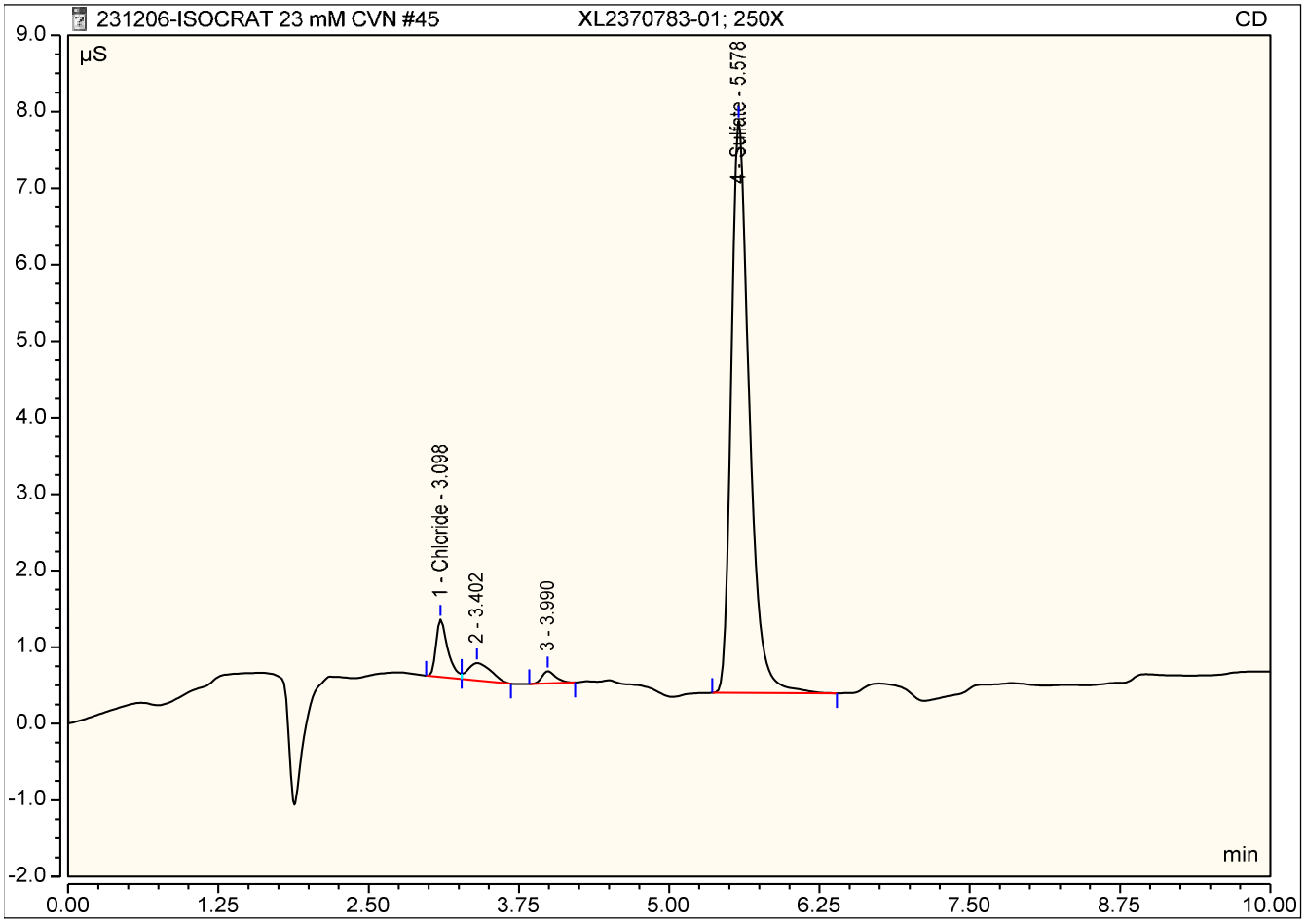
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.25	**Floride**	BMB	0.004	0.028	0.2284
2	3.09	**Chloride**	BMB	2.134	19.592	54.9219
5	5.55	**Sulfate**	M	3.646	20.289	130.3712
6	6.03	**Nitrate**	MB	0.059	0.292	0.8229
TOTAL:				5.84	40.20	186.34



Peak Integration Report

Sample Name:	**XL2370783-01; 250X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**250.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 15:32**	*Run Time:*	**10.00**

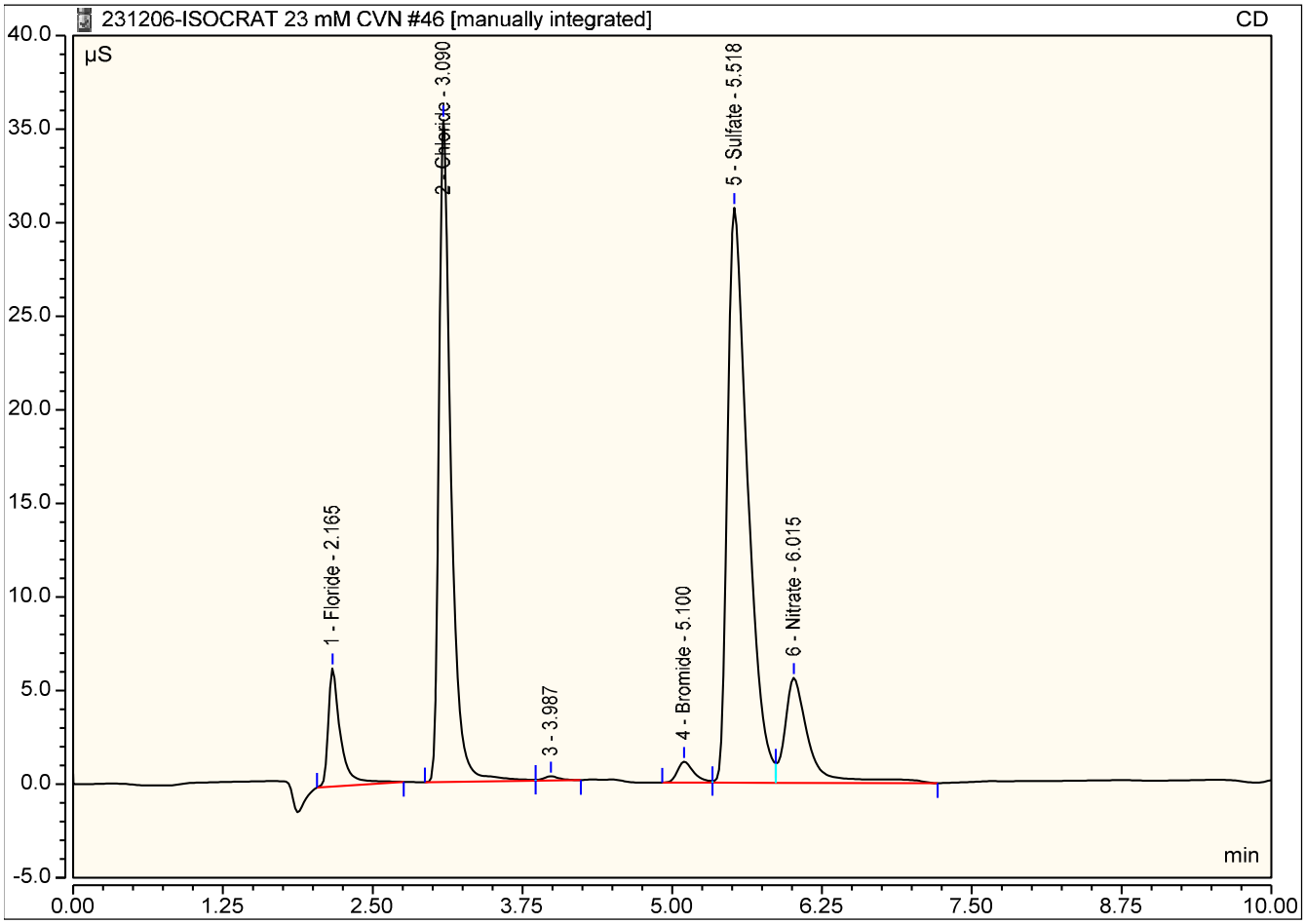
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.10	**Chloride**	BM	0.085	0.753	72.6029
4	5.58	**Sulfate**	BMB	1.314	7.476	1196.6500
TOTAL:				1.40	8.23	1269.25



Peak Integration Report

Sample Name:	**XCCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 15:43**	*Run Time:*	**10.00**

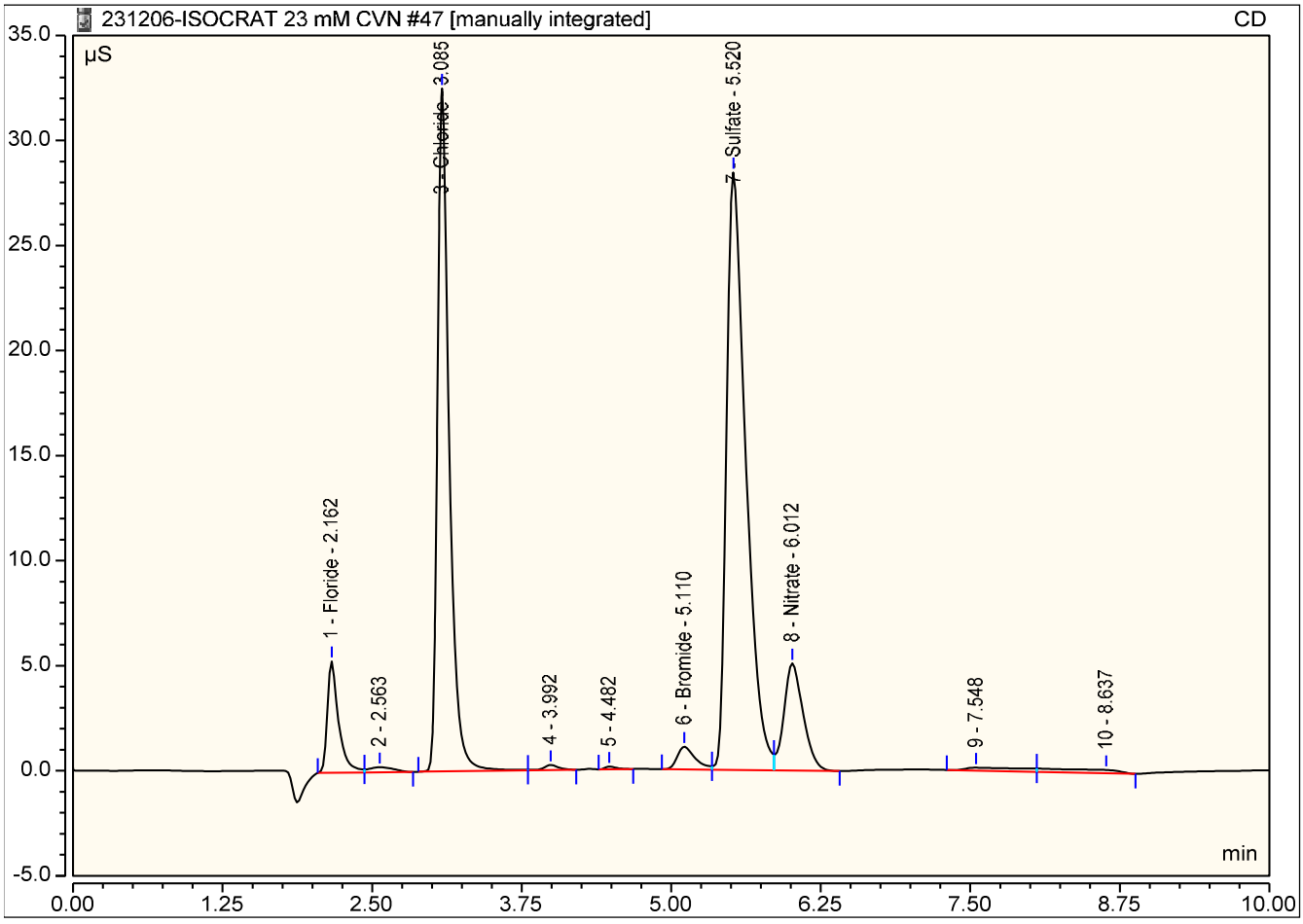
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.17	**Floride**	BMB	0.751	6.320	1.2372
2	3.09	**Chloride**	BM	4.085	35.353	10.4470
4	5.10	**Bromide**	BM	0.178	1.114	1.4393
5	5.52	**Sulfate**	M *	6.018	30.721	21.4256
6	6.02	**Nitrate**	MB*	1.300	5.608	1.2546
TOTAL:				12.33	79.12	35.80



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 15:54**	*Run Time:*	**10.00**

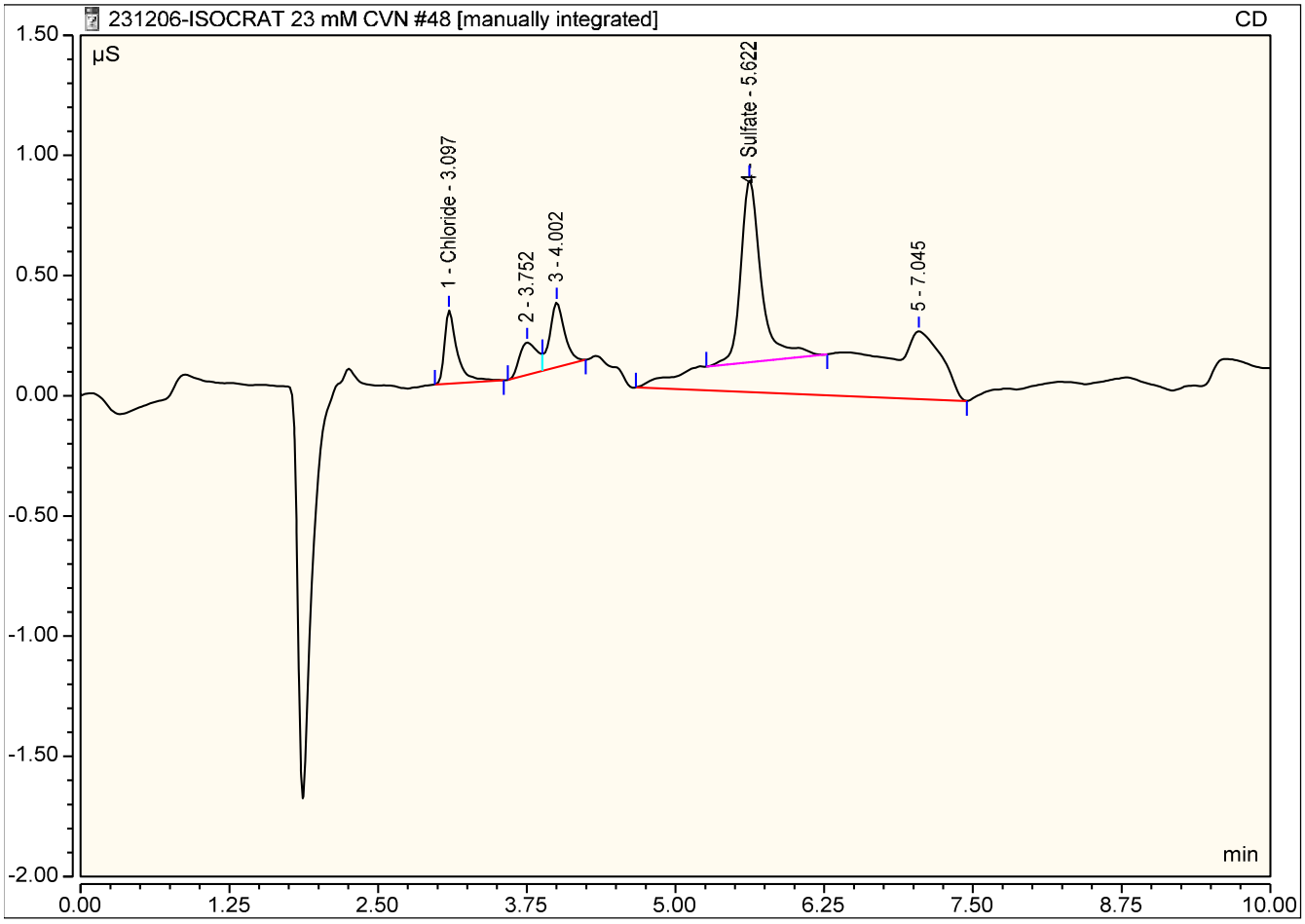
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	2.16	**Floride**	BM	0.578	5.319	0.9558
3	3.09	**Chloride**	BM	3.666	32.501	9.3832
6	5.11	**Bromide**	BM	0.188	1.080	1.5230
7	5.52	**Sulfate**	M *	5.331	28.443	18.9968
8	6.01	**Nitrate**	MB*	0.950	5.102	0.9246
TOTAL:				10.71	72.45	31.78



Peak Integration Report

Sample Name:	**CCB**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 16:05**	*Run Time:*	**10.00**

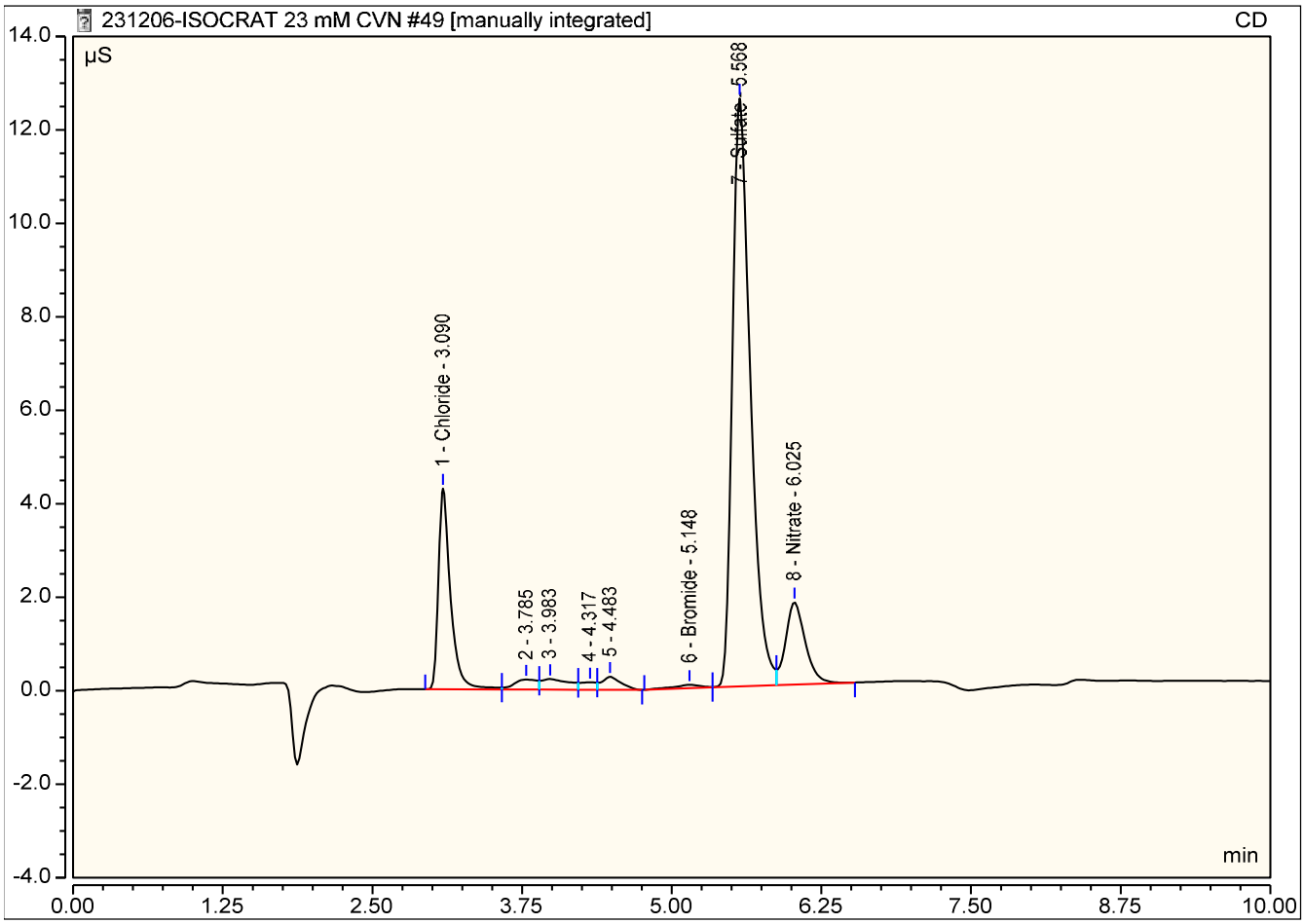
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.10	**Chloride**	BMB	0.038	0.304	0.1707
4	5.62	**Sulfate**	Ru*	0.153	0.758	0.6815
TOTAL:				0.19	1.06	0.85



Peak Integration Report

Sample Name:	**XL2370783-08; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 16:16**	*Run Time:*	**10.00**

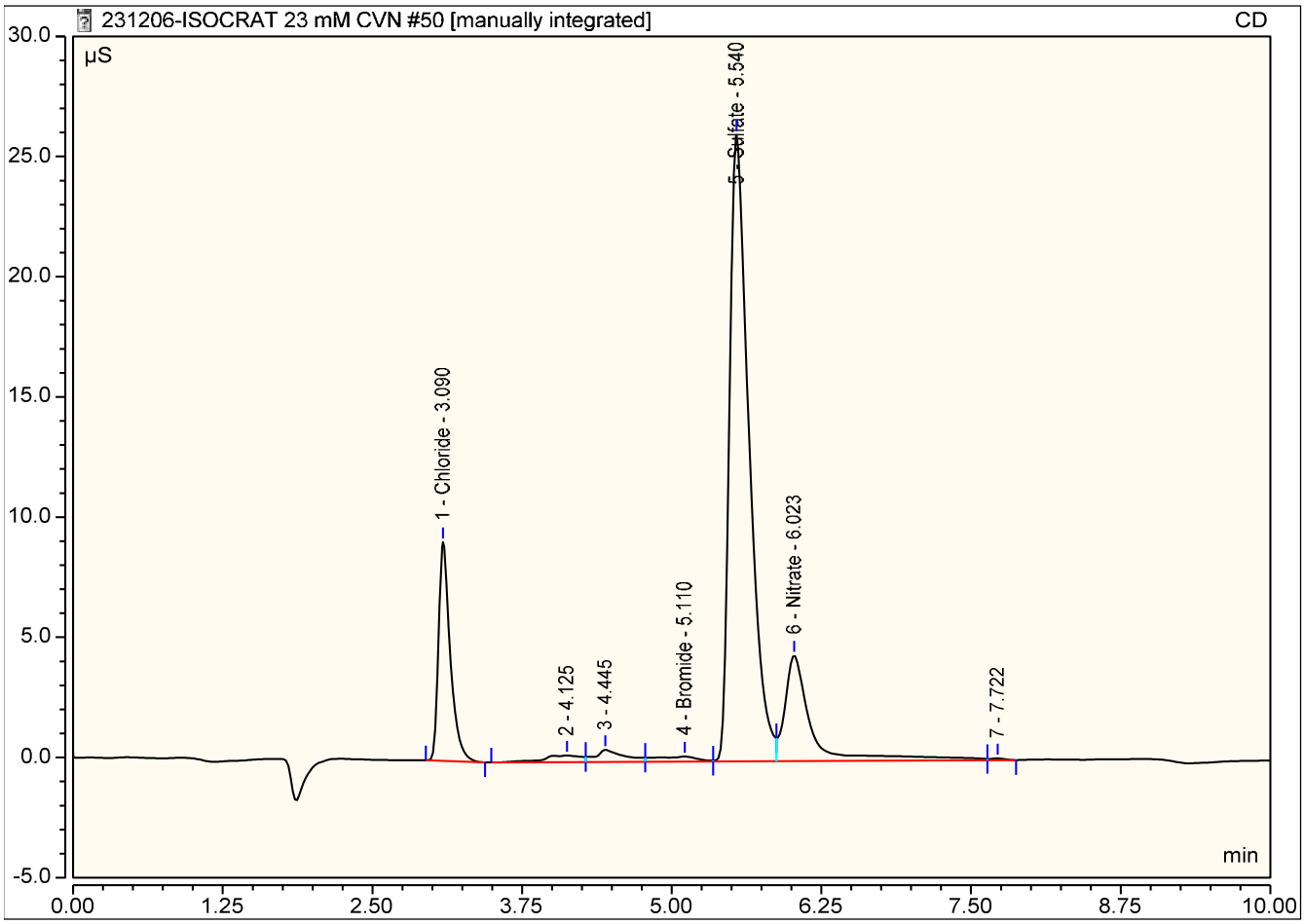
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.09	**Chloride**	BM	0.497	4.296	13.3764
6	5.15	**Bromide**	BM	0.019	0.073	1.4913
7	5.57	**Sulfate**	M *	2.182	12.579	78.5835
8	6.03	**Nitrate**	MB*	0.336	1.761	3.4380
TOTAL:				3.03	18.71	96.89



Peak Integration Report

Sample Name:	**XL2370783-10; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 16:27**	*Run Time:*	**10.00**

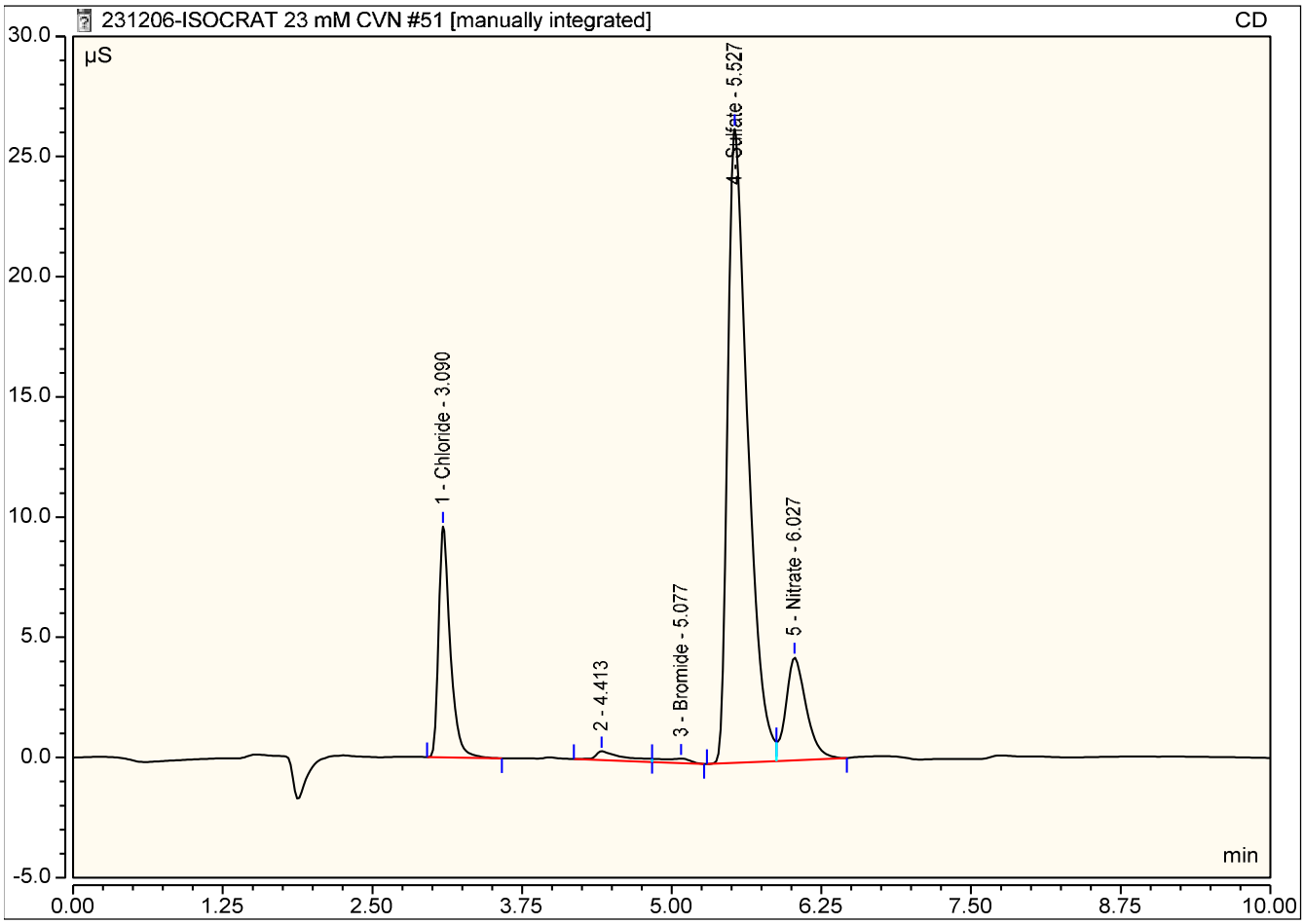
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.09	**Chloride**	BMB	1.019	9.104	26.6155
4	5.11	**Bromide**	M	0.086	0.214	6.9303
5	5.54	**Sulfate**	M *	4.931	26.061	175.8000
6	6.02	**Nitrate**	M *	1.122	4.397	10.8656
TOTAL:				7.16	39.78	220.21



Peak Integration Report

Sample Name:	**XL2370783-07; 10X**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 16:38**	*Run Time:*	**10.00**

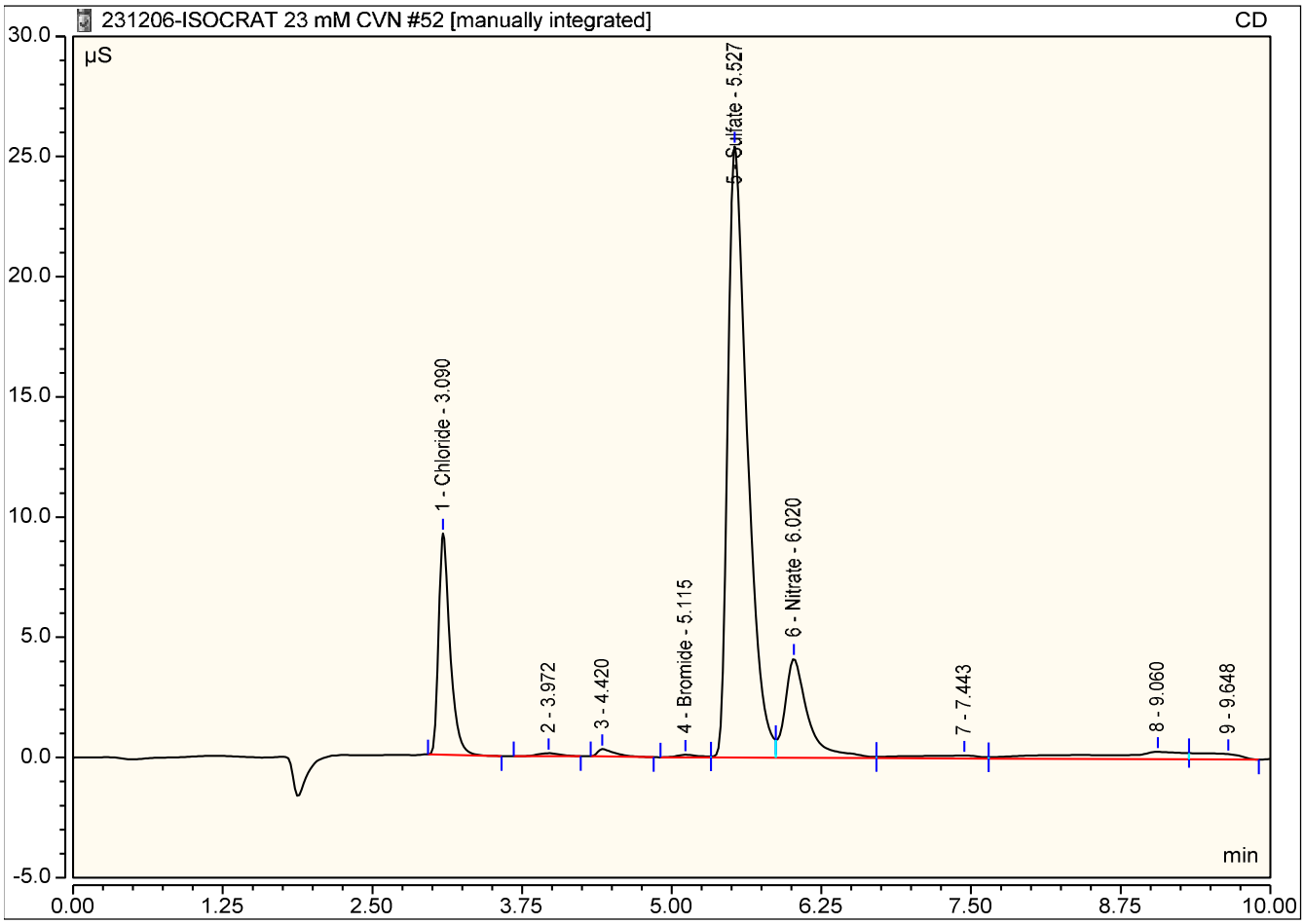
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.09	**Chloride**	BMB	1.060	9.604	2.7668
3	5.08	**Bromide**	MB	0.053	0.191	0.4227
4	5.53	**Sulfate**	BM *	5.149	26.364	18.3516
5	6.03	**Nitrate**	MB*	0.843	4.281	0.8236
TOTAL:				7.11	40.44	22.36



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 16:49**	*Run Time:*	**10.00**

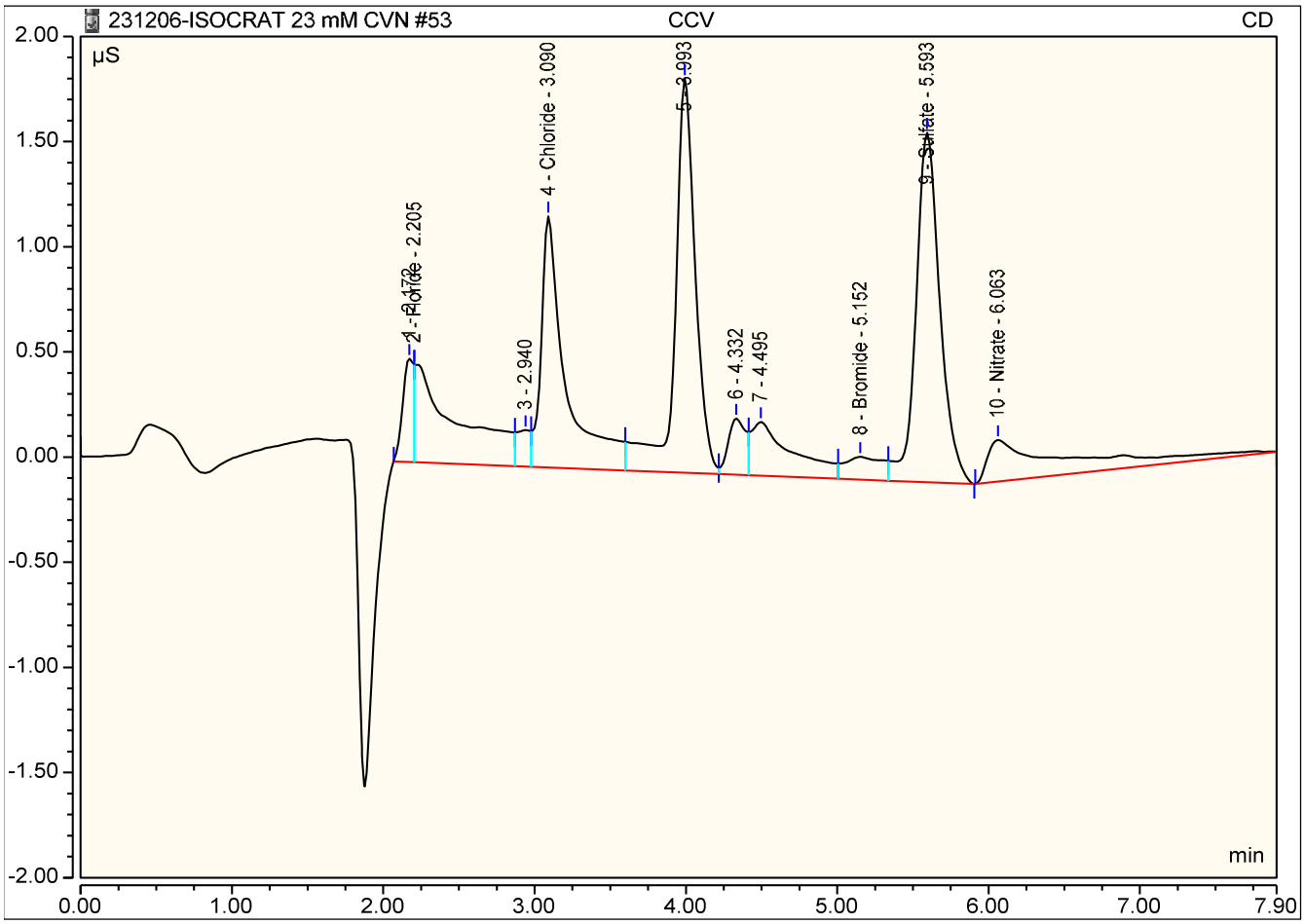
No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
1	3.09	**Chloride**	BMB	1.004	9.207	2.6242
4	5.12	**Bromide**	BM	0.023	0.111	0.1798
5	5.53	**Sulfate**	M *	4.831	25.427	17.2265
6	6.02	**Nitrate**	M *	0.907	4.124	0.8834
TOTAL:				6.76	38.87	20.91



Peak Integration Report

Sample Name:	**CCV**	*Inj. Vol.:*	**5000.00**
Injection Type:	**Check Standard**	*Dilution Factor:*	**1.0000**
Instrument Method:	**IC 3 method 23 mM**	*Operator:*	**a1wetcheminstrument**
Inj. Date / Time:	**06-Dec-2023 / 17:01**	*Run Time:*	**7.90**

No.	Time min	Peak Name	Peak Type	Area µS*min	Height µS	Amount
2	2.21	**Floride**	M	0.151	0.463	0.2625
4	3.09	**Chloride**	M	0.223	1.194	0.6415
8	5.15	**Bromide**	M	0.031	0.108	0.2448
9	5.59	**Sulfate**	MB	0.305	1.662	1.2188
10	6.06	**Nitrate**	BMB	0.120	0.198	0.1401
TOTAL:				0.83	3.63	2.51



Anion Summary Report

No.	Name	Dilution	Amount CD Floride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide	Inject Time	Comment
1	BLK	1.0	n.a.	0.1126	0.0288	0.1543	n.a.	05/Dec/2023 18:25	AU
2	STD 0.5	1.0	0.0464	0.3054	0.0447	0.5107	0.0436	05/Dec/2023 18:35	LOT#231204-0.5
3	STD 1.0	1.0	0.0574	0.5479	0.0689	0.9720	0.1016	05/Dec/2023 18:46	LOT#231204-1.0
4	STD 2.0	1.0	0.1682	1.9104	0.1699	3.8811	0.1652	05/Dec/2023 18:57	LOT#231204-2.0
5	STD 3.0	1.0	0.4713	4.9968	0.4498	9.9333	0.4629	05/Dec/2023 19:08	LOT#231204-3.0
6	STD 4.0	1.0	2.0186	19.8522	2.0148	40.0860	2.0112	05/Dec/2023 19:19	LOT#231204-4.0
7	STD 5.0	1.0	4.9965	50.0623	5.1511	99.9773	5.4572	05/Dec/2023 19:30	LOT#231204-5.0
8	RINSE	1.0	0.0226	0.1021	n.a.	0.1680	n.a.	06/Dec/2023 08:49	WG1860402-536
9	CCV	1.0	1.0001	10.2603	0.9640	20.1529	0.9498	06/Dec/2023 08:59	LOT#231204-C
10	CCB	1.0	n.a.	0.1116	n.a.	0.1948	n.a.	06/Dec/2023 09:10	CVN
11	ICV	1.0	0.7584	8.1824	0.7636	8.0027	0.7769	06/Dec/2023 09:21	LOT#231204-I
12	ICB	1.0	n.a.	0.1040	0.0295	0.1620	n.a.	06/Dec/2023 09:32	CVN
13	BLK	1.0	0.0311	0.1963	0.0292	0.1742	0.0262	06/Dec/2023 09:43	CVN
14	LCS	1.0	0.7851	8.2456	0.7830	8.0152	0.8276	06/Dec/2023 09:54	LOT#231204-I
15	L2371388-01 BR CL F SO4	1.0	1.0415	50.9414	0.4624	39.2782	0.4519	06/Dec/2023 10:05	CVN
16	L2371388-01 DUP	1.0	0.6496	49.3931	0.0842	33.0406	0.0855	06/Dec/2023 10:16	CVN
17	L2371388-01	1.0	0.6896	48.9935	0.0977	32.4512	0.1460	06/Dec/2023 10:26	CVN
18	L2371388-02 MS	1.0	0.3594	4.4073	0.3551	7.8041	0.3649	06/Dec/2023 10:37	CVN
19	L2371388-02 DUP	1.0	0.0347	0.3641	0.0291	0.1777	0.0026	06/Dec/2023 10:48	CVN
20	L2371388-02	1.0	0.0273	0.3452	0.0281	0.1774	n.a.	06/Dec/2023 10:59	CVN
21	CCV	1.0	0.9966	10.0603	0.9503	20.2962	0.9285	06/Dec/2023 11:10	LOT#231204-C
22	CCB	1.0	0.0173	0.1065	0.0350	0.1751	n.a.	06/Dec/2023 11:21	CVN
23	L2371476-01 CL SO4 NO3	1.0	0.0528	6.8998	3.5139	170.3838	0.0474	06/Dec/2023 11:32	CVN
24	L2371476-02	1.0	0.0435	0.8707	0.9824	121.6501	0.0333	06/Dec/2023 11:43	CVN
25	L2371476-03	1.0	0.1381	17.6069	n.a.	31.5248	0.1475	06/Dec/2023 11:54	CVN
26	L2371476-04	1.0	0.1936	33.1517	n.a.	27.8028	0.1136	06/Dec/2023 12:05	CVN
27	L2371476-05	1.0	0.1844	35.0574	n.a.	25.9722	0.1066	06/Dec/2023 12:16	CVN
28	L2371480-01	1.0	0.9302	3.3516	n.a.	55.8825	0.1281	06/Dec/2023 12:27	CVN
29	L2371480-02	1.0	0.0702	6.2099	0.3614	12.7577	0.1072	06/Dec/2023 12:38	CVN
30	L2371480-03	1.0	0.3217	43.6786	n.a.	25.0339	0.1969	06/Dec/2023 12:49	AU
31	L2371480-04	1.0	0.3170	7.0993	0.2114	81.2694	0.2661	06/Dec/2023 12:59	CVN
32	XL2371480-04; 10X	10.0	0.3982	7.6354	0.6451	84.4504	0.9033	06/Dec/2023 13:10	CVN
33	XCCV	1.0	0.0433	0.3878	n.a.	5.1768	n.a.	06/Dec/2023 13:21	LOT#231204-C
34	CCV	1.0	1.0030	10.0924	0.9702	20.1928	0.9669	06/Dec/2023 13:32	LOT#231204-C
35	CCB	1.0	0.0203	0.1458	0.0298	0.1898	n.a.	06/Dec/2023 13:43	CVN

36	L2371388-01 MS; 10X CL	10.0	4.8942	89.1124	3.8311	113.5870	3.9095	06/Dec/2023 13:54	CVN
37	L2371476-01; 10X	10.0	0.3589	9.0243	3.0974	176.8328	n.a.	06/Dec/2023 14:05	CVN
38	L2371476-02; 10X	10.0	0.2146	1.5434	0.9026	118.9912	n.a.	06/Dec/2023 14:16	CVN
39	XL2370783-01 F BR CL SO	10.0	0.4668	39.9026	n.a.	5735.3935	n.a.	06/Dec/2023 14:27	CVN
40	L2370783-02; 10X SO4	10.0	0.4051	6.7706	1.9649	194.9638	n.a.	06/Dec/2023 14:38	CVN
41	L2370783-03; 10X SO4	10.0	0.2466	22.7999	5.0542	102.4963	0.3678	06/Dec/2023 14:49	CVN
42	L2370783-04; 10X CL	10.0	0.4355	116.6928	0.6978	17.2448	n.a.	06/Dec/2023 15:00	CVN
43	L2370783-05; 10X SO4	10.0	0.2083	18.2017	1.5306	75.7340	n.a.	06/Dec/2023 15:10	CVN
44	XL2370783-06; 10X	10.0	0.2284	54.9219	0.8229	130.3712	n.a.	06/Dec/2023 15:21	CVN
45	XL2370783-01; 250X	250.0	n.a.	72.6029	n.a.	1196.6500	n.a.	06/Dec/2023 15:32	CVN
46	XCCV	1.0	1.2372	10.4470	1.2546	21.4256	1.4393	06/Dec/2023 15:43	LOT#231204-C
47	CCV	1.0	0.9558	9.3832	0.9246	18.9968	1.5230	06/Dec/2023 15:54	LOT#231204-C
48	CCB	1.0	n.a.	0.1707	n.a.	0.6815	n.a.	06/Dec/2023 16:05	CVN
49	XL2370783-08; 10X	10.0	n.a.	13.3764	3.4380	78.5835	1.4913	06/Dec/2023 16:16	CVN
50	XL2370783-10; 10X	10.0	n.a.	26.6155	10.8656	175.8000	6.9303	06/Dec/2023 16:27	CVN
51	XL2370783-07; 10X	1.0	n.a.	2.7668	0.8236	18.3516	0.4227	06/Dec/2023 16:38	CVN
52	CCV	1.0	n.a.	2.6242	0.8834	17.2265	0.1798	06/Dec/2023 16:49	LOT#231204-C
53	CCV	1.0	0.2625	0.6415	0.1401	1.2188	0.2448	06/Dec/2023 17:01	LOT#231204-C
	Sum:			939.386	55.485	9182.621			0.000
	Average:			17.724	1.321	173.257			#DIV/0!
	Rel.Std.Dev:			140.938 %	153.025 %	459.690 %			#DIV/0!

Quality Control

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: L2371388-02		
Matrix Spike	: WG1860536-3	**MS Analysis Date**	: 12/06/23 10:37
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Bromide	ND	0.4	0.365	91					90-110	20
Chloride	0.345J	4	4.41	110					90-110	18
Fluoride	ND	0.4	0.359	90					90-110	15
Sulfate	ND	8	7.80	98					90-110	20

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-7S	**Matrix**	: WATER
Lab Sample ID	: L2370783-07		
Matrix Spike	: WG1860728-3	**MS Analysis Date**	: 12/07/23 06:22
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Bromide	ND	0.4	0.376	94						90-110	20
Chloride	24.7	4	27.4	72	Q					90-110	18
Fluoride	0.058	0.4	0.381	80	Q					90-110	15

Form 5a
Matrix Spike

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-7S	**Matrix**	: WATER
Lab Sample ID	: L2370783-07		
Matrix Spike	: WG1860728-3	**MS Analysis Date**	: 12/07/23 10:48
Matrix Spike Dup	:	**MSD Analysis Date**	:

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/l)	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R	RPD	Recovery Limits	RPD Limit
Sulfate	140.	80	218.	98					90-110	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: NA	**Analysis Date**	: 12/06/23 10:59
Dup Sample ID	: WG1860536-4	**DUP Analysis Date**	: 12/06/23 10:48

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Bromide	ND	ND	NC	20
Chloride	0.345J	0.364J	NC	18
Fluoride	ND	ND	NC	15
Sulfate	ND	ND	NC	20

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-7S	**Matrix**	: WATER
Lab Sample ID	: L2370783-07	**Analysis Date**	: 12/07/23 06:47
Dup Sample ID	: WG1860728-4	**DUP Analysis Date**	: 12/07/23 06:34

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Bromide	ND	0.057	NC	20
Chloride	24.7	24.6	7	18
Fluoride	0.058	0.058	0	15

Form 6
Lab Duplicates

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: MW-7S	**Matrix**	: WATER
Lab Sample ID	: L2370783-07	**Analysis Date**	: 12/07/23 11:12
Dup Sample ID	: WG1860728-4	**DUP Analysis Date**	: 12/07/23 11:00

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	140.	138.	1	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1860536-2	**LCS Analysis Date**	: 12/06/23 09:54
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	0.800	0.828	104.					90-110	20
Chloride	8.00	8.24	103.					90-110	18
Fluoride	0.800	0.785	98.					90-110	15
Sulfate	8.00	8.02	100.					90-110	20

Form 7
Laboratory Control Sample

Client	: Alpha Geoscience	**Lab Number**	: L2370783
Project Name	: HUNTINGTON READY MIX	**Project Number**	: 20116
Client Sample ID	: NA	**Matrix**	: WATER
Lab Sample ID	: WG1860728-2	**LCS Analysis Date**	: 12/06/23 17:29
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/l)**	**Found (mg/l)**	**%R**	**True (mg/l)**	**Found (mg/l)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Bromide	0.800	0.804	100.					90-110	20
Chloride	8.00	8.09	101.					90-110	18
Fluoride	0.800	0.780	98.					90-110	15
Sulfate	8.00	8.15	102.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Bromide	24959-67-9	0.05	0.0132	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		64-148	18	18	9056	28 days	1 - Plastic 250ml unpreserved
Chloride	16887-00-6	0.5	0.0839	mg/l	90-110		90-110	18	18	300.0	28 days	1 - Plastic 250ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		81-124	15	15	9056	28 days	1 - Plastic 500ml unpreserved
Fluoride	16984-48-8	0.05	0.037	mg/l	90-110		90-110	15	15	300.0	28 days	1 - Plastic 500ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		90-110	15	15	300.0	48 hours	1 - Plastic 250ml unpreserved
Nitrogen, Nitrate	14797-55-8	0.05	0.0128	mg/l	90-110		80-120	15	15	9056	48 hours	1 - Plastic 250ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		72-124	20	20	9056	28 days	1 - Plastic 500ml unpreserved
Sulfate	14808-79-8	1	0.454	mg/l	90-110		90-110	20	20	300.0	28 days	1 - Plastic 500ml unpreserved

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

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area - y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Subcontracted Data

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

December 08, 2023

Analytical Subreports
Alpha Analytical Inc
8 Walkup Drive
Westborough, Massachusetts 01581

Re: Analytical Subreports Westborough MA
Work Order: 647786
SDG: L2370783

Dear Analytical Subreports:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on December 07, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 1614.

Sincerely,

Olivia Olsen for
Delaney Stonesmith
Project Manager

Enclosures

Table of Contents

Case Narrative.....1

Chain of Custody and Supporting Documentation.4

Laboratory Certifications.....8

General Chem Analysis.....10

Case Narrative.....11

Sample Data Summary.....14

Quality Control Summary.....24

Instrument QC Data Summary.....27

Ion Chromatography Iodide Raw Data.....29

Case Narrative

Receipt Narrative
for
Alpha Analytical Inc
SDG: L2370783
Work Order: 647786

December 08, 2023

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on December 07, 2023 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following samples:

Laboratory ID	Client ID
647786001	MW-1S
647786002	MW-2S
647786003	MW-3S
647786004	MW-4D
647786005	MW-5S
647786006	MW-6D
647786007	MW-7S
647786008	MW-8S
647786009	DUP2

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: General Chemistry.

Olivia Olsen for
Delaney Stonesmith
Project Manager

Chain of Custody and Supporting Documentation

SDG: L2370783

Subcontract Chain of Custody

GEL Laboratories, LLC
2040 savage road
Charleston, SC 29407

647786

Alpha Job Number
L2370783

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 716.427.5229
Email: mdeyo@alphalab.com

Project Information

Project Location: NY
Project Manager: Melissa Deyo

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria:

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2370783

Report to include Method Blank, LCS/LCSD:

Additional Comments: Send all results/reports to subreports@alphalab.com

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-1S	11-29-23 12:40	WATER	Iodide	
	MW-2S	11-29-23 11:10	WATER	Iodide	
	MW-3S	11-29-23 09:30	WATER	Iodide	
	MW-4D	11-29-23 14:00	WATER	Iodide	
	MW-5S	11-29-23 15:30	WATER	Iodide	
	MW-6D	11-29-23 10:08	WATER	Iodide	
	MW-7S	11-29-23 11:38	WATER	Iodide	
	MW-8S	11-29-23 16:40	WATER	Iodide	
	DUP2	11-29-23 00:00	WATER	Iodide	

Relinquished By:	Date/Time:	Received By:	Date/Time:
RACE	12/6/23 940	FedEx	12/7/23 915

Form No: AL_subcoc

SDG: L2370783

Internal Transfer Chain of Custody

Rush Multiplier____X

Samples Pre-Logged into eCOC

Cert. Needed: Yes No

Workorder: 30643820 **Workorder Name:** L2370783 **Owner Received Date:** 12/5/2023 **Results Requested By:** 12/27/2023

Report To	Subcontract To
Skyler C. Richmond Pace Analytical Pittsburgh 1638 Roseytown Road Suites 2,3,4 Greensburg, PA 15601 Phone (724)850-5600	Pace Analytical Indianapolis 7726 Moller Road Indianapolis, IN 46268 Phone (317)228-3100

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: Iodide	LAB USE ONLY
1	MW-1S	PS	11/29/2023 12:40	30643820001	Water	1	X	
2	MW-2S	PS	11/29/2023 11:10	30643820002	Water	1	X	
3	MW-3S	PS	11/29/2023 09:30	30643820003	Water	1	X	
4	MW-4D	PS	11/29/2023 14:00	30643820004	Water	1	X	
5	MW-5S	PS	11/29/2023 15:30	30643820005	Water	1	X	
6	MW-6D	PS	11/29/2023 10:08	30643820006	Water	1	X	
7	MW-7S	PS	11/29/2023 11:38	30643820007	Water	1	X	
8	MW-8S	PS	11/29/2023 16:40	30643820008	Water	1	X	
9	DUP2	PS	11/29/2023 00:00	30643820009	Water	1	X	

Comments

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	12/5/23 1700	[signature]	12-7-23 945
2				
3				

Cooler Temperature on Receipt °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: ALPI	SDG/AR/COC/Work Order: 647786
Received By: Stacy L Boone	Date Received: 12.07.23
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 7106 1535 5200

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1 C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR3-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AM Date 12/8/23 Page 1 of 1

Laboratory Certifications

List of current GEL Certifications as of 08 December 2023

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-05
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-23-21
Utah NELAP	SC000122023-38
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

General Chem Analysis

Case Narrative

General Chemistry
Technical Case Narrative
Alpha Analytical Inc
SDG #: L2370783
Work Order #: 647786

Product: **Ion Chromatography Iodide**
Analytical Method: SW846 9056A
Analytical Procedure: GL-GC-E-086 REV# 34
Analytical Batch: 2537039

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
647786001	MW-1S
647786002	MW-2S
647786003	MW-3S
647786004	MW-4D
647786005	MW-5S
647786006	MW-6D
647786007	MW-7S
647786008	MW-8S
647786009	DUP2
1205595455	Method Blank (MB)
1205595456	Laboratory Control Sample (LCS)
1205595457	647786001(MW-1S) Sample Duplicate (DUP)
1205595458	647786001(MW-1S) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Qualifier Definition Report
for

ALPL001 Alpha Analytical Inc

Client SDG: L2370783 GEL Work Order: 647786

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: **Name: Aubrey Kingsbury**

Date: 12 DEC 2023 **Title: Analyst II/Data Validator/Te**

Sample Data Summary

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: December 12, 2023

Company :	Alpha Analytical Inc
Address :	8 Walkup Drive
	Westborough, Massachusetts 01581
Contact:	Analytical Subreports
Project:	Analytical Subreports Westborough MA

Client Sample ID:	MW-1S	Project:	ALPL00223
Sample ID:	647786001	Client ID:	ALPL001
Matrix:	Water		
Collect Date:	29-NOV-23 12:40		
Receive Date:	07-DEC-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Iodide, Liquid "As Received"												
Iodide	U	ND	167	500	ug/L		1	TXT1	12/07/23	1604	2537039	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: December 12, 2023

Company :	Alpha Analytical Inc
Address :	8 Walkup Drive
	Westborough, Massachusetts 01581
Contact:	Analytical Subreports
Project:	Analytical Subreports Westborough MA

Client Sample ID:	MW-2S	Project:	ALPL00223
Sample ID:	647786002	Client ID:	ALPL001
Matrix:	Water		
Collect Date:	29-NOV-23 11:10		
Receive Date:	07-DEC-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Iodide, Liquid "As Received"												
Iodide	U	ND	167	500	ug/L		1	TXT1	12/07/23	1709	2537039	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: December 12, 2023

Company :	Alpha Analytical Inc
Address :	8 Walkup Drive Westborough, Massachusetts 01581
Contact:	Analytical Subreports
Project:	Analytical Subreports Westborough MA

Client Sample ID:	MW-3S	Project:	ALPL00223
Sample ID:	647786003	Client ID:	ALPL001
Matrix:	Water		
Collect Date:	29-NOV-23 09:30		
Receive Date:	07-DEC-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Iodide, Liquid "As Received"												
Iodide	U	ND	167	500	ug/L		1	TXT1	12/07/23	1721	2537039	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: December 12, 2023

Company :	Alpha Analytical Inc
Address :	8 Walkup Drive
	Westborough, Massachusetts 01581
Contact:	Analytical Subreports
Project:	Analytical Subreports Westborough MA

Client Sample ID:	MW-4D	Project:	ALPL00223
Sample ID:	647786004	Client ID:	ALPL001
Matrix:	Water		
Collect Date:	29-NOV-23 14:00		
Receive Date:	07-DEC-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Iodide, Liquid "As Received"												
Iodide	U	ND	167	500	ug/L		1	TXT1	12/07/23	1734	2537039	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: December 12, 2023

Company :	Alpha Analytical Inc
Address :	8 Walkup Drive
	Westborough, Massachusetts 01581
Contact:	Analytical Subreports
Project:	Analytical Subreports Westborough MA

Client Sample ID:	MW-5S	Project:	ALPL00223
Sample ID:	647786005	Client ID:	ALPL001
Matrix:	Water		
Collect Date:	29-NOV-23 15:30		
Receive Date:	07-DEC-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Iodide, Liquid "As Received"												
Iodide	U	ND	167	500	ug/L		1	TXT1	12/07/23	1747	2537039	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 12, 2023

Company :	Alpha Analytical Inc
Address :	8 Walkup Drive
	Westborough, Massachusetts 01581
Contact:	Analytical Subreports
Project:	Analytical Subreports Westborough MA

Client Sample ID:	MW-6D	Project:	ALPL00223
Sample ID:	647786006	Client ID:	ALPL001
Matrix:	Water		
Collect Date:	29-NOV-23 10:08		
Receive Date:	07-DEC-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Iodide, Liquid "As Received"												
Iodide	U	ND	167	500	ug/L		1	TXT1	12/07/23	1800	2537039	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 12, 2023

Company :	Alpha Analytical Inc
Address :	8 Walkup Drive
	Westborough, Massachusetts 01581
Contact:	Analytical Subreports
Project:	Analytical Subreports Westborough MA

Client Sample ID:	MW-7S	Project:	ALPL00223
Sample ID:	647786007	Client ID:	ALPL001
Matrix:	Water		
Collect Date:	29-NOV-23 11:38		
Receive Date:	07-DEC-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Iodide, Liquid "As Received"												
Iodide	U	ND	167	500	ug/L		1	TXT1	12/07/23	1813	2537039	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 12, 2023

Company :	Alpha Analytical Inc
Address :	8 Walkup Drive
	Westborough, Massachusetts 01581
Contact:	Analytical Subreports
Project:	Analytical Subreports Westborough MA

Client Sample ID:	MW-8S	Project:	ALPL00223
Sample ID:	647786008	Client ID:	ALPL001
Matrix:	Water		
Collect Date:	29-NOV-23 16:40		
Receive Date:	07-DEC-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Iodide, Liquid "As Received"												
Iodide	U	ND	167	500	ug/L		1	TXT1	12/07/23	1826	2537039	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: December 12, 2023

Company :	Alpha Analytical Inc
Address :	8 Walkup Drive
	Westborough, Massachusetts 01581
Contact:	Analytical Subreports
Project:	Analytical Subreports Westborough MA

Client Sample ID:	DUP2	Project:	ALPL00223
Sample ID:	647786009	Client ID:	ALPL001
Matrix:	Water		
Collect Date:	29-NOV-23 00:00		
Receive Date:	07-DEC-23		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Iodide, Liquid "As Received"												
Iodide	U	ND	167	500	ug/L		1	TXT1	12/07/23	1839	2537039	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 9056A	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

Quality Control Summary

QC Summary

Report Date: December 12, 2023

Alpha Analytical Inc
8 Walkup Drive
Westborough, Massachusetts

Contact: **Analytical Subreports**

Workorder: **647786**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch 2537039											
QC1205595457 647786001 DUP											
Iodide	U	ND	U	ND	ug/L	N/A			TXT1	12/07/23	16:17
QC1205595456 LCS											
Iodide	2500			2460	ug/L		98.5	(90%-110%)		12/07/23	15:51
QC1205595455 MB											
Iodide			U	ND	ug/L					12/07/23	15:39
QC1205595458 647786001 PS											
Iodide	1.00 U	ND		1.10	mg/L		110	(90%-110%)		12/07/23	16:30

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- N1 See case narrative

QC Summary

Workorder: **647786**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Instrument QC Data Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 12-DEC-2023 09:55

GEL Laboratories LLC

Contract: ALPL00223

SDG #: L2370783

Ion Chromatography

Method: SW846 9056A

Instrument: DIONEX Aquion Ion Chromatograph (IC10)

Parmname: Iodide Concentration Units:ug/L

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	**07-DEC-2023 09:46:00**	**231207-ID**	**2366.2**	**2500**	**94.6**	**(90%-110%)**	**Yes**
CVL	07-DEC-2023 10:12:00	231207-ID	555.9	500	111	(50%-150%)	Yes
CCV	07-DEC-2023 11:42:00	231207-ID	1022.3	1000	102	(90%-110%)	Yes
CCV	07-DEC-2023 16:43:00	231207-ID	2476.9	2500	99.1	(90%-110%)	Yes
CCV	07-DEC-2023 18:51:00	231207-ID	1012.9	1000	101	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	**07-DEC-2023 09:59:00**	**231207-ID**	**0**	**500**	**Yes**
CCB	07-DEC-2023 11:55:00	231207-ID	0	500	Yes
CCB	07-DEC-2023 16:56:00	231207-ID	0	500	Yes
CCB	07-DEC-2023 19:04:00	231207-ID	0	500	Yes

Ion Chromatography
Iodide Raw Data

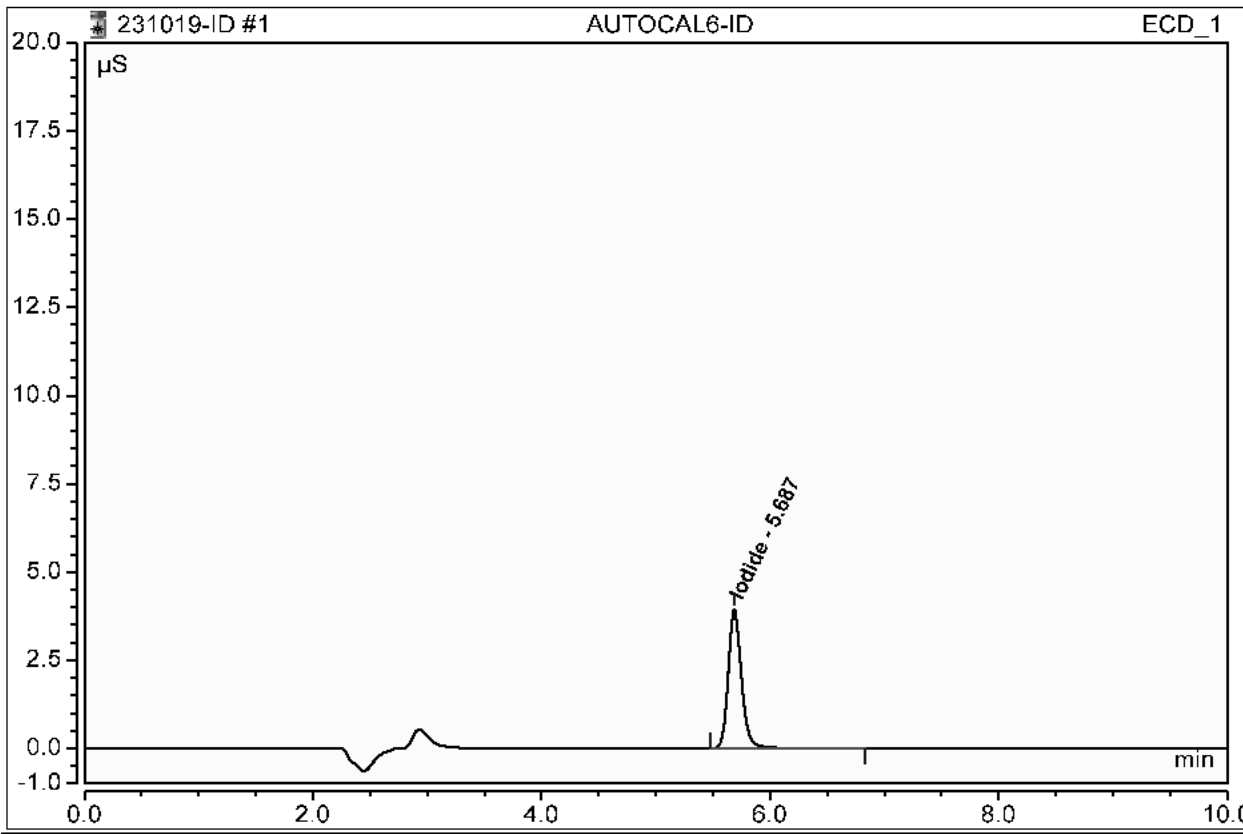
This is runlog for Sequence 231019-ID.seq for IC10

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
ICAL-06	10/19/23 16:36		1	231019-ID	HXC1
ICAL-05	10/19/23 16:49		1	231019-ID	HXC1
ICAL-04	10/19/23 17:01		1	231019-ID	HXC1
ICAL-03	10/19/23 17:14		1	231019-ID	HXC1
ICAL-02	10/19/23 17:27		1	231019-ID	HXC1
ICAL-01	10/19/23 17:40		1	231019-ID	HXC1
ICV	10/19/23 17:53		1	231019-ID	HXC1
ICB	10/19/23 18:06		1	231019-ID	HXC1
CVL	10/19/23 18:19		1	231019-ID	HXC1
1205542731	10/19/23 18:31	2506653	1	231019-ID	HXC1
1205542732	10/19/23 18:44	2506653	1	231019-ID	HXC1
640537001	10/19/23 18:57	2506653	1	231019-ID	HXC1
640537003	10/19/23 19:10	2506653	1	231019-ID	HXC1
640537005	10/19/23 19:23	2506653	1	231019-ID	HXC1
640537007	10/19/23 19:36	2506653	1	231019-ID	HXC1
1205542733	10/19/23 19:49	2506653	1	231019-ID	HXC1
1205542734	10/19/23 20:01	2506653	1	231019-ID	HXC1
640537009	10/19/23 20:14	2506653	1	231019-ID	HXC1
640537011	10/19/23 20:27	2506653	1	231019-ID	HXC1
CVH	10/19/23 20:40		1	231019-ID	HXC1
CCB	10/19/23 20:53		1	231019-ID	HXC1
640683001	10/19/23 21:06	2506653	1	231019-ID	HXC1
1205551940	10/19/23 21:19	2506653	1	231019-ID	HXC1
1205551941	10/19/23 21:31	2506653	1	231019-ID	HXC1
640683003	10/19/23 21:44	2506653	1	231019-ID	HXC1
640683005	10/19/23 21:57	2506653	1	231019-ID	HXC1
640683007	10/19/23 22:10	2506653	1	231019-ID	HXC1
640683009	10/19/23 22:23	2506653	1	231019-ID	HXC1

640683011	10/19/23 22:36	2506653	1	231019-ID	HXC1
CCV	10/19/23 22:49		1	231019-ID	HXC1
CCB	10/19/23 23:01		1	231019-ID	HXC1

1 AUTOCAL6-ID

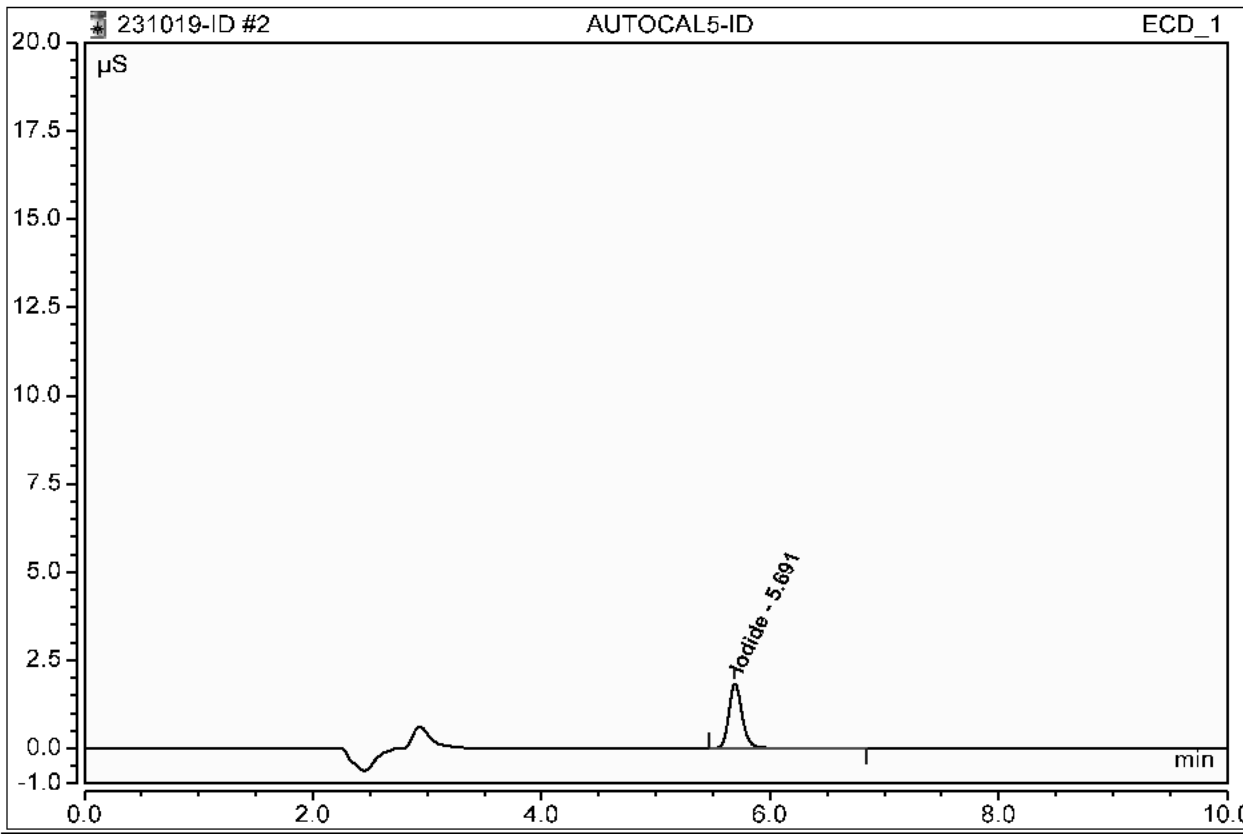
Sample Name:	**AUTOCAL6-ID**	*Injection Volume:*	**5000.0**
Vial Number:	**5**	*Channel:*	**ECD_1**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**10/19/2023 16:36**	Analyst:	**HXC1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	5.69	Iodide	5.0000	5.0335		0.52920	100.00
Total:				5.0335	0.000	0.529	100.00

2 AUTOCAL5-ID

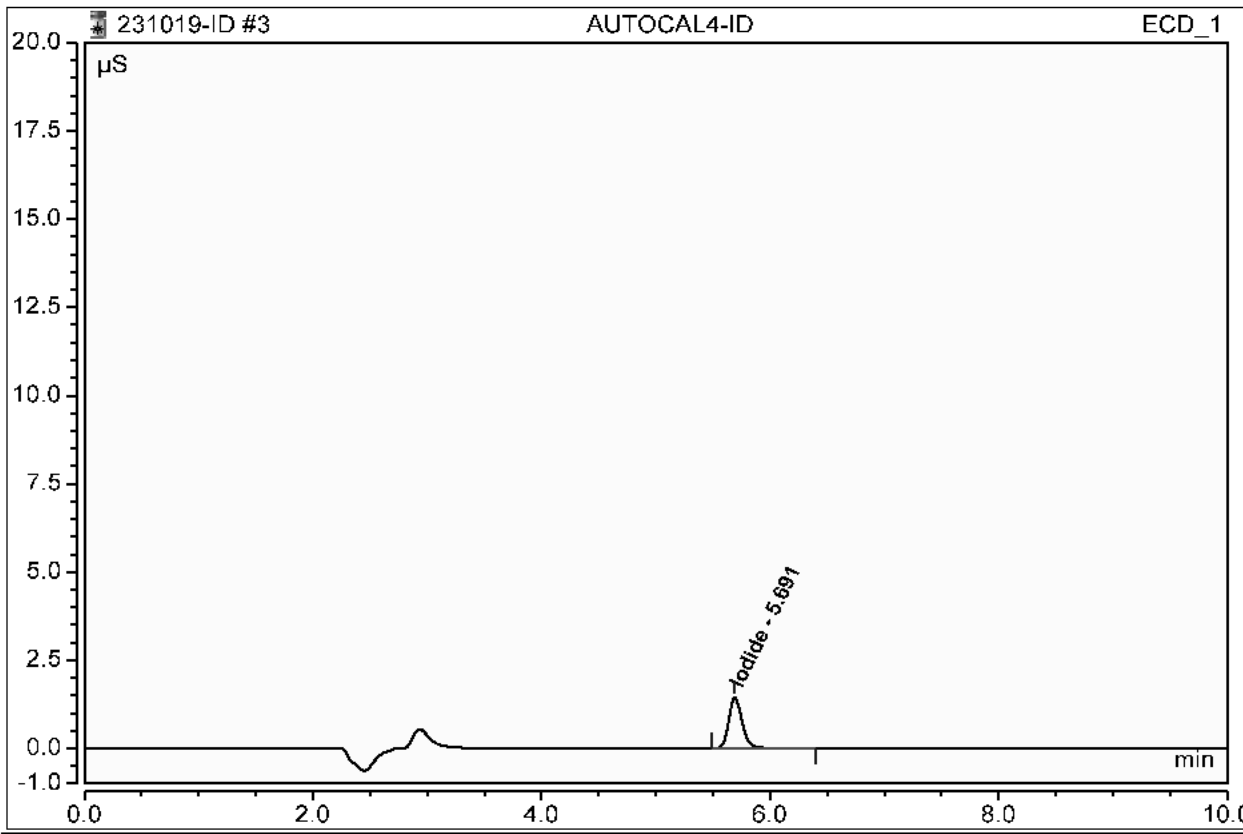
Sample Name:	**AUTOCAL5-ID**	*Injection Volume:*	**5000.0**
Vial Number:	**6**	*Channel:*	**ECD_1**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**10/19/2023 16:49**	Analyst:	**HXC1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	5.69	Iodide	2.5000	2.4572		0.25188	100.00
Total:				2.4572	0.000	0.252	100.00

3 AUTOCAL4-ID

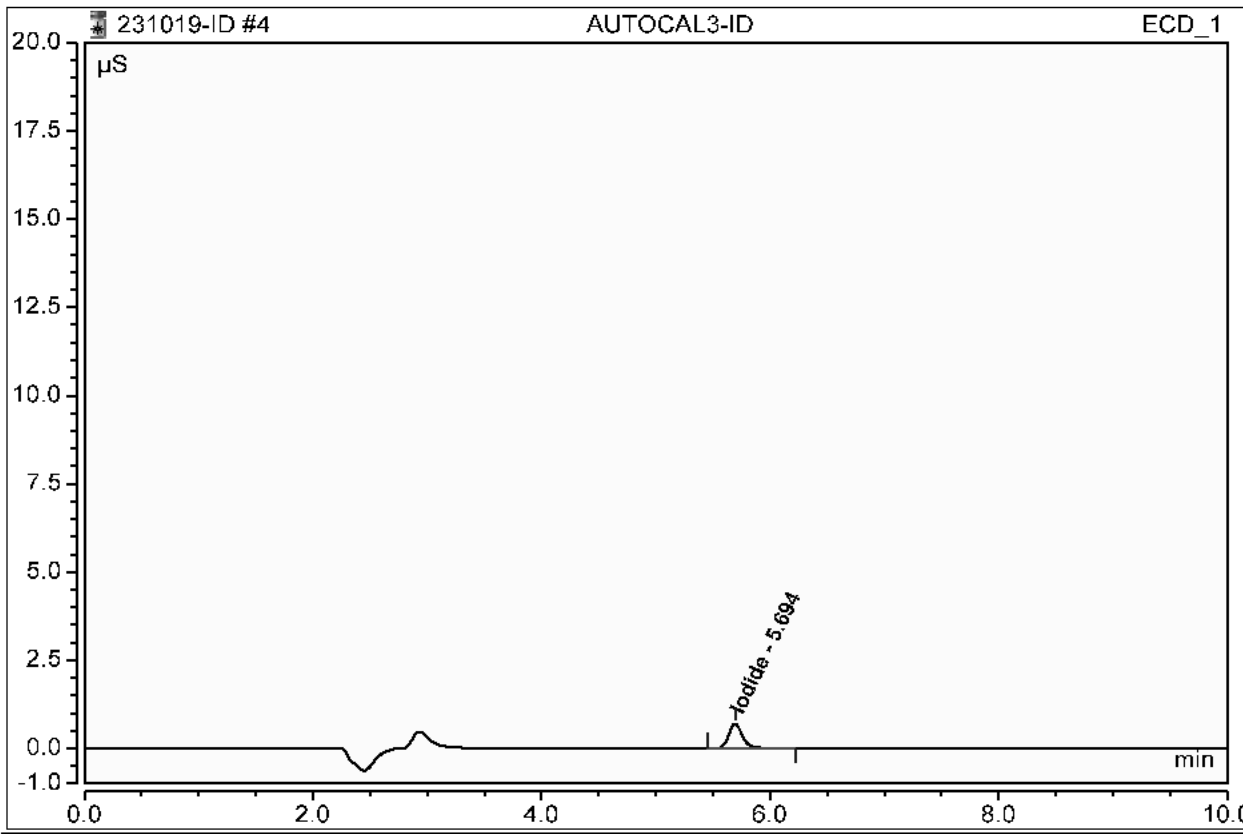
Sample Name:	**AUTOCAL4-ID**	*Injection Volume:*	**5000.0**
Vial Number:	**7**	*Channel:*	**ECD_1**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**10/19/2023 17:01**	Analyst:	**HXC1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	5.69	Iodide	2.0000	1.9534		0.19765	100.00
Total:				1.9534	0.000	0.198	100.00

4 AUTOCAL3-ID

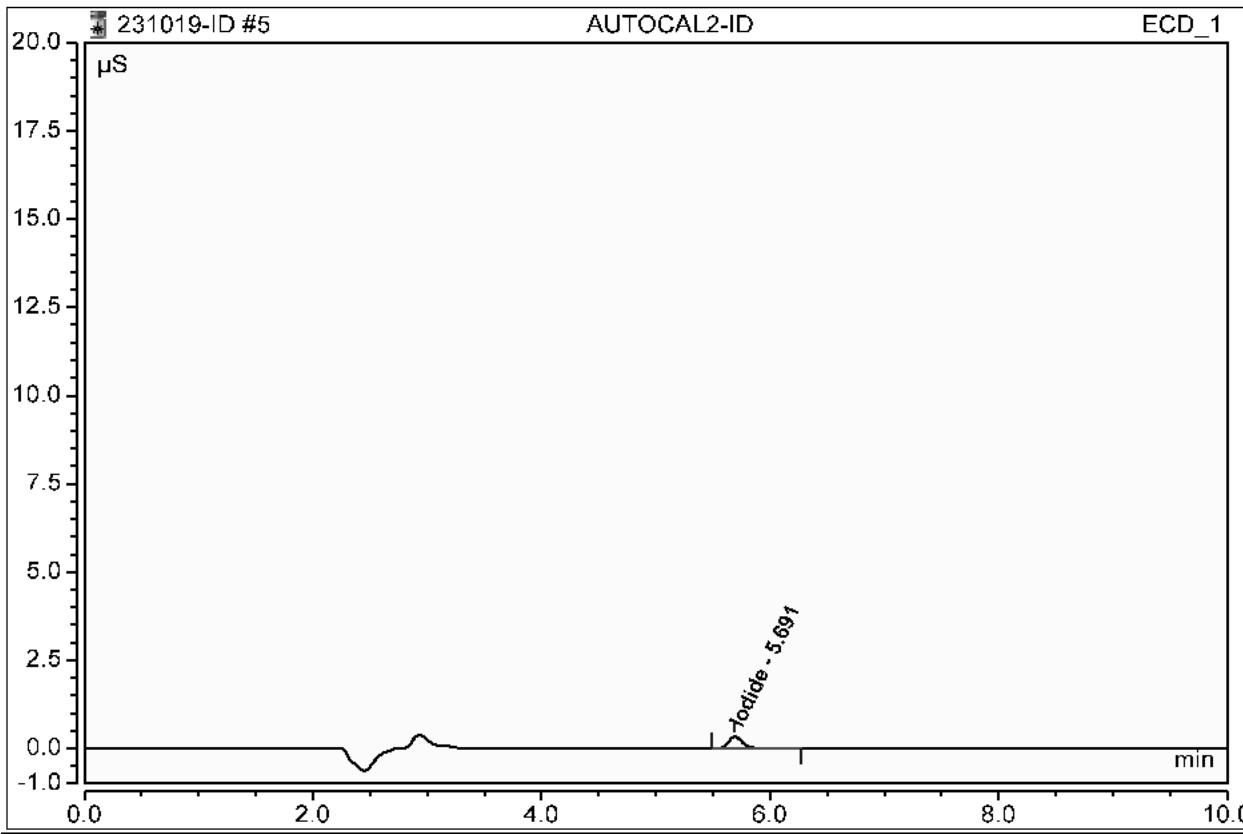
Sample Name:	**AUTOCAL3-ID**	*Injection Volume:*	**5000.0**
Vial Number:	**8**	*Channel:*	**ECD_1**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**10/19/2023 17:14**	Analyst:	**HXC1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	5.69	Iodide	1.0000	1.0096		0.09606	100.00
Total:				1.0096	0.000	0.096	100.00

5 AUTOCAL2-ID

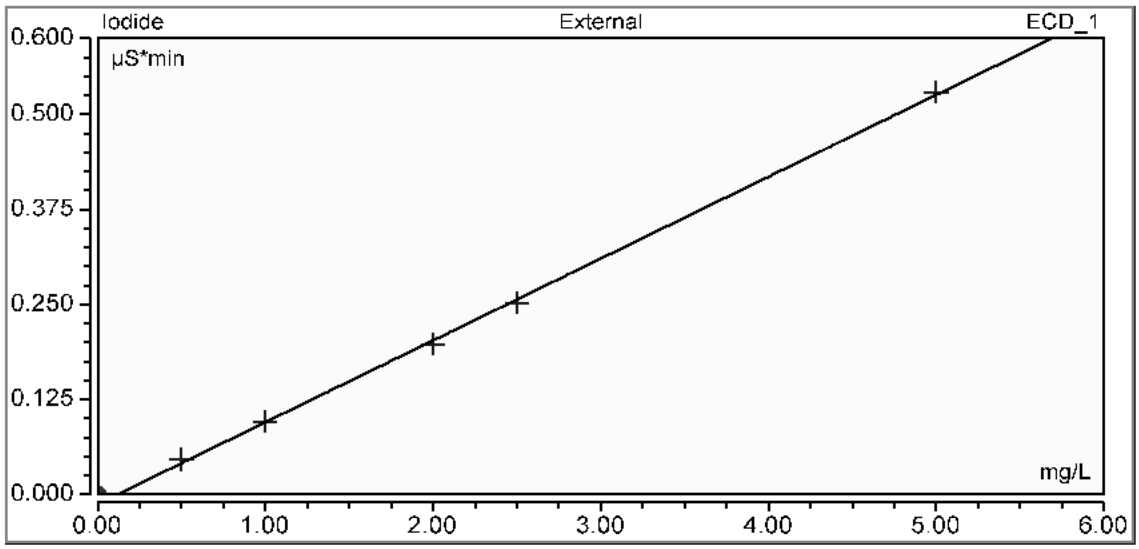
Sample Name:	**AUTOCAL2-ID**	*Injection Volume:*	**5000.0**
Vial Number:	**9**	*Channel:*	**ECD_1**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**10/19/2023 17:27**	Analyst:	**HXC1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	5.69	Iodide	0.5000	0.5463		0.04619	100.00
Total:				0.5463	0.000	0.046	100.00

6 AUTOCAL1-ID

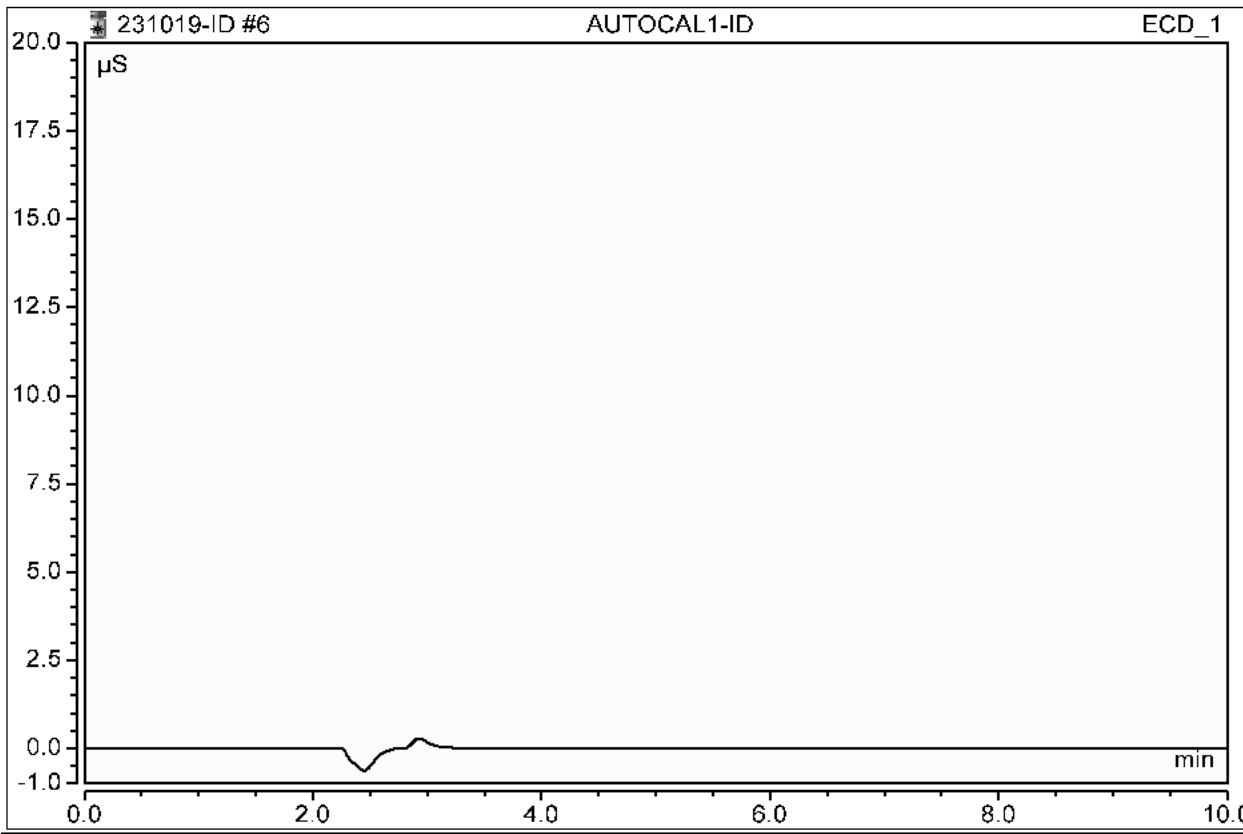
Sample Name:	**AUTOCAL1-ID**	*Injection Volume:*	**5000.0**
Vial Number:	**10**	*Channel:*	**ECD_1**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**##########**	Analyst:	**HXC1**
Run Time (min):	**10.00**	Column:	**AS16.#221202097;GL-GC-E-096**



Peak Name	Ret.Time min	Peak Name	Cal.Type	Coeff.Det. %	Offset	Slope	Curve
Iodide	n.a.	Iodide	Lin, WithOffset	99.9402	-0.0126	0.1076	0.0000
Average:				99.9402	-0.0126	0.1076	0.0000

6 AUTOCAL1-ID

Sample Name:	**AUTOCAL1-ID**	*Injection Volume:*	**5000.0**
Vial Number:	**10**	*Channel:*	**ECD_1**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**10/19/2023 17:40**	Analyst:	**HXC1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



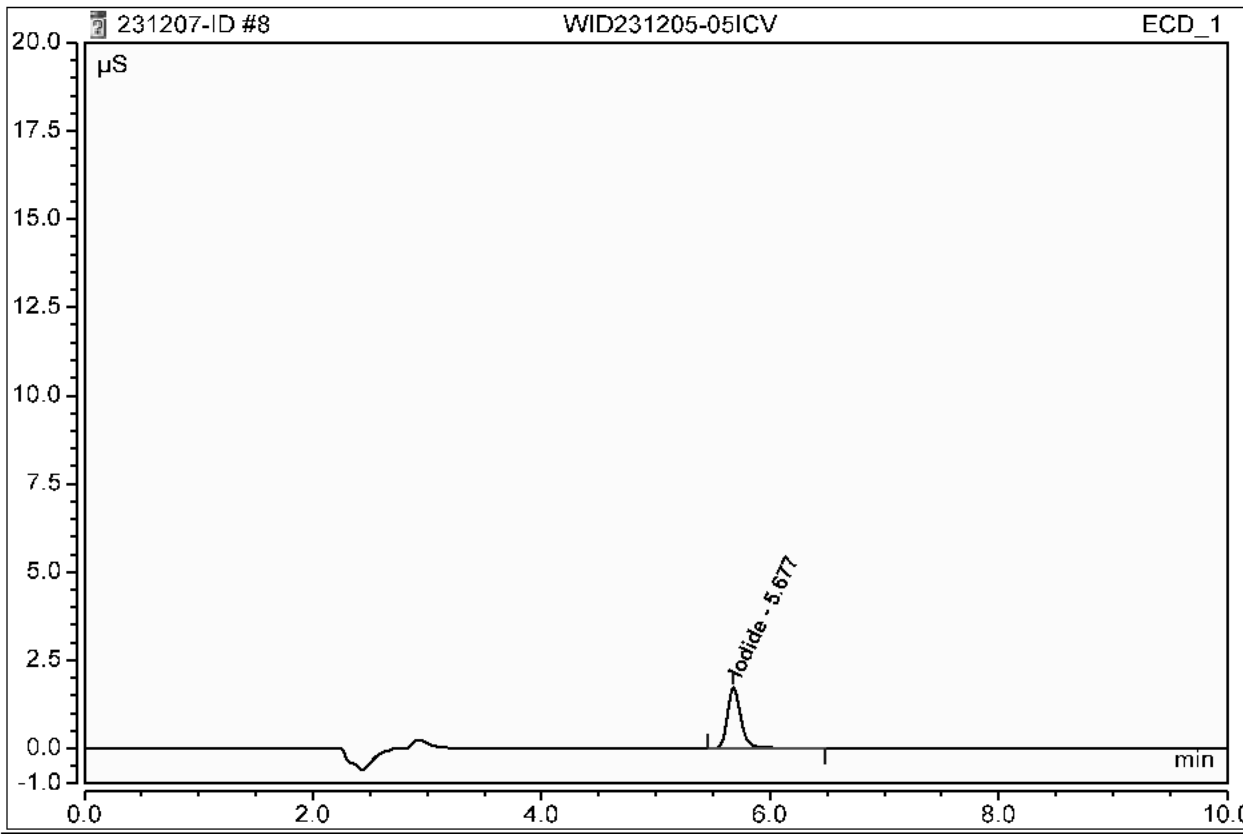
No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	0.0000	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

This is runlog for Sequence 231207-ID.seq for IC10

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	12/07/23 09:33		1	231207-ID	TXT1
ICV	12/07/23 09:46		1	231207-ID	TXT1
ICB	12/07/23 09:59		1	231207-ID	TXT1
CVL	12/07/23 10:12		1	231207-ID	TXT1
1205594031	12/07/23 10:25	2536249	1	231207-ID	TXT1
1205594032	12/07/23 10:37	2536249	1	231207-ID	TXT1
1205594033	12/07/23 10:50	2536249	1	231207-ID	TXT1
1205594034	12/07/23 11:03	2536249	1	231207-ID	TXT1
1205594035	12/07/23 11:16	2536249	1	231207-ID	TXT1
647168001	12/07/23 11:29	2536249	1	231207-ID	TXT1
CCV	12/07/23 11:42		1	231207-ID	TXT1
CCB	12/07/23 11:55		1	231207-ID	TXT1
1205595455	12/07/23 15:39	2537039	1	231207-ID	TXT1
1205595456	12/07/23 15:51	2537039	1	231207-ID	TXT1
647786001	12/07/23 16:04	2537039	1	231207-ID	TXT1
1205595457	12/07/23 16:17	2537039	1	231207-ID	TXT1
1205595458	12/07/23 16:30	2537039	1	231207-ID	TXT1
CVH	12/07/23 16:43		1	231207-ID	TXT1
CCB	12/07/23 16:56		1	231207-ID	TXT1
647786002	12/07/23 17:09	2537039	1	231207-ID	TXT1
647786003	12/07/23 17:21	2537039	1	231207-ID	TXT1
647786004	12/07/23 17:34	2537039	1	231207-ID	TXT1
647786005	12/07/23 17:47	2537039	1	231207-ID	TXT1
647786006	12/07/23 18:00	2537039	1	231207-ID	TXT1
647786007	12/07/23 18:13	2537039	1	231207-ID	TXT1
647786008	12/07/23 18:26	2537039	1	231207-ID	TXT1
647786009	12/07/23 18:39	2537039	1	231207-ID	TXT1
CCV	12/07/23 18:51		1	231207-ID	TXT1

8 WID231205-05ICV

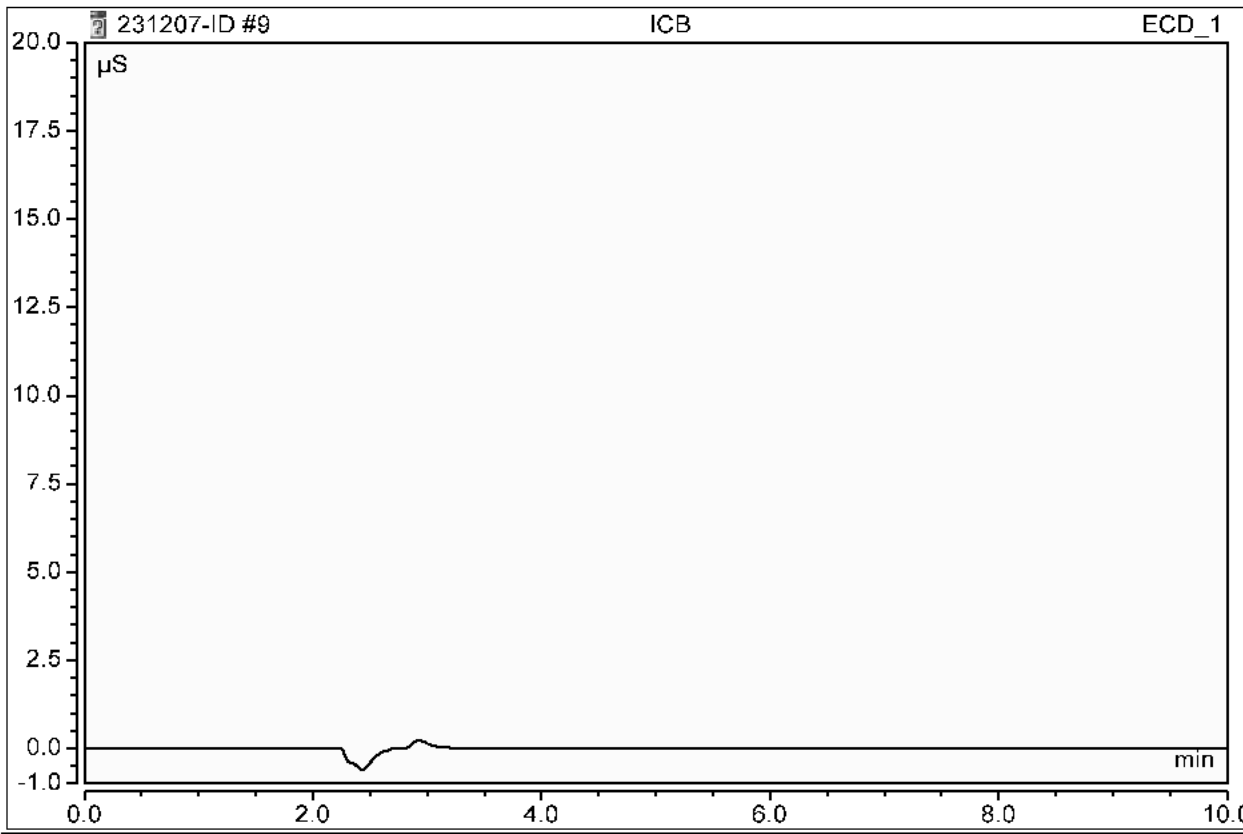
Sample Name:	**WID231205-05ICV**	*Injection Volume:*	**5000.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 9:46**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	5.68	Iodide	n.a.	2.3662		0.24208	100.00
Total:				2.3662	0.000	0.242	100.00

9 ICB

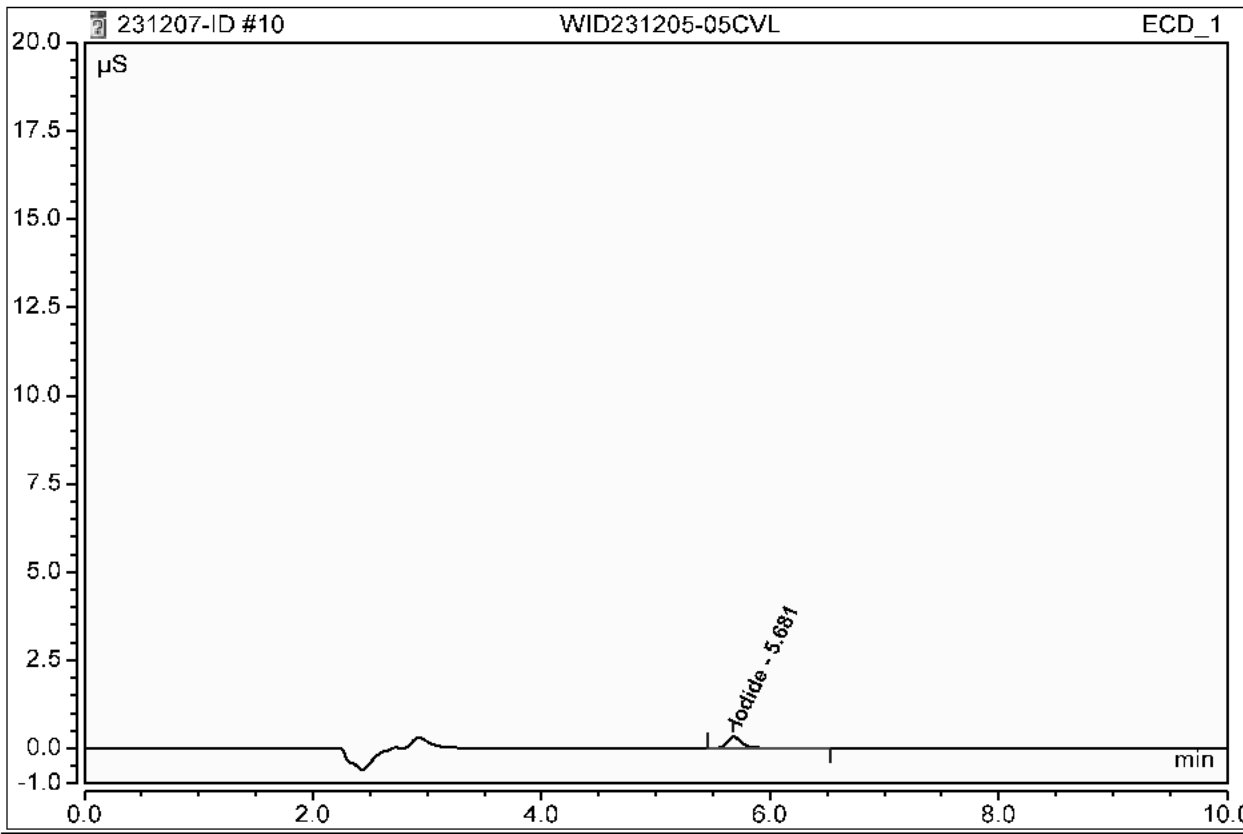
Sample Name:	**ICB**	*Injection Volume:*	**5000.0**
Vial Number:	**3**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 9:59**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

10 WID231205-05CVL

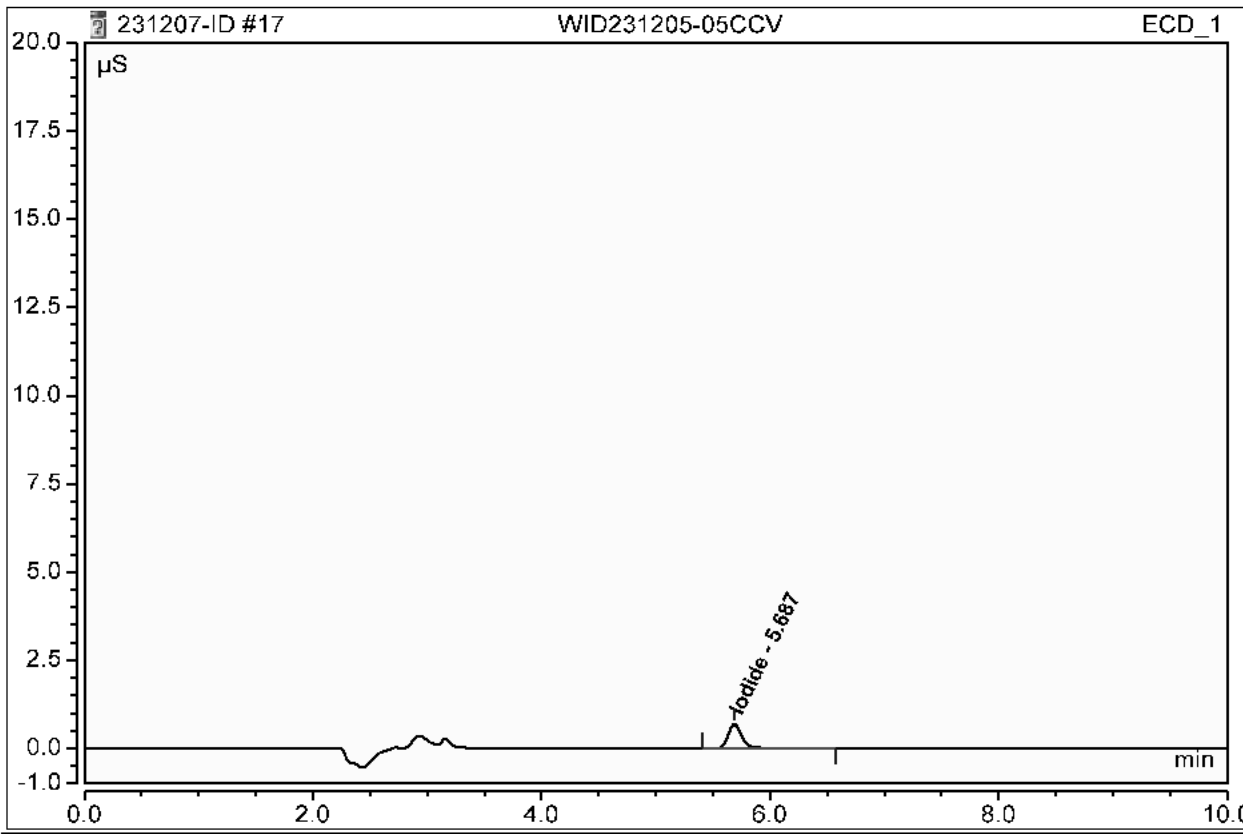
Sample Name:	**WID231205-05CVL**	*Injection Volume:*	**5000.0**
Vial Number:	**4**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 10:12**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	5.68	Iodide	n.a.	0.5559		0.04722	100.00
Total:				0.5559	0.000	0.047	100.00

17 WID231205-05CCV

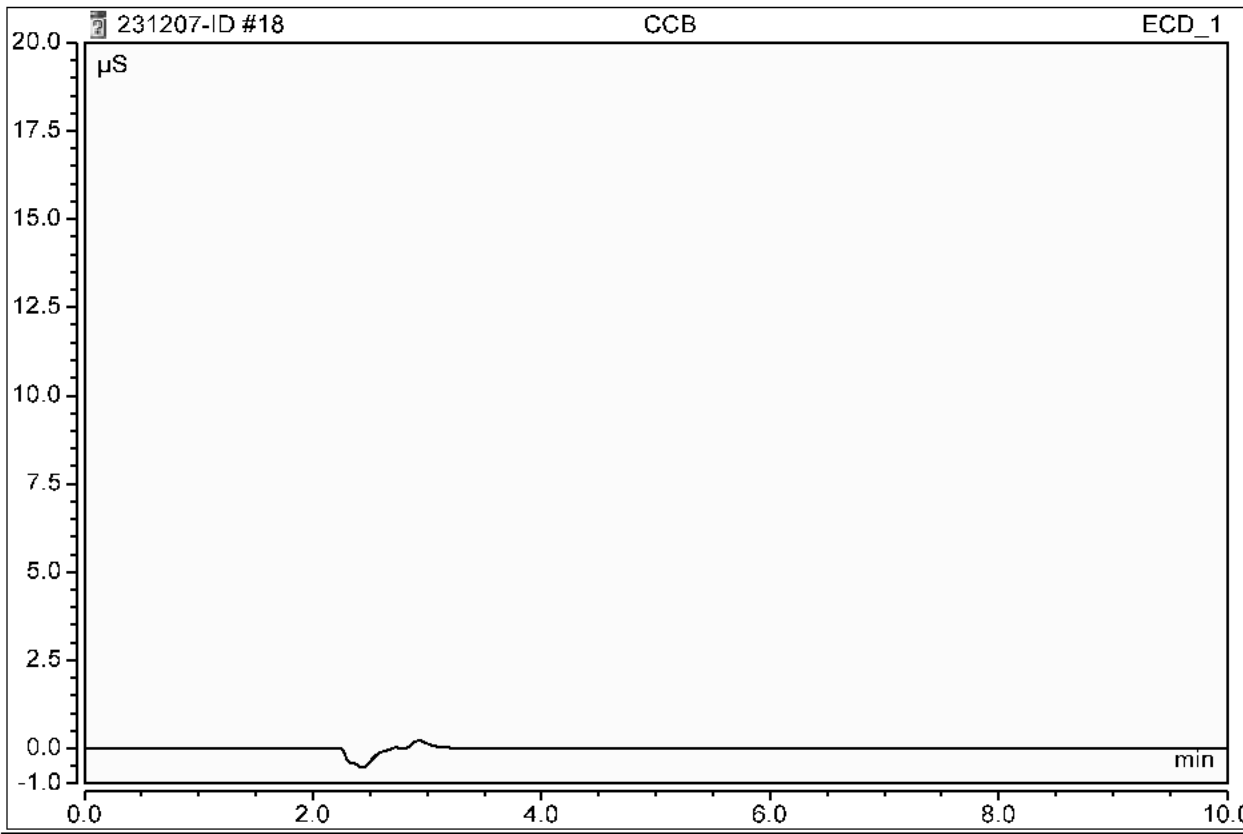
Sample Name:	**WID231205-05CCV**	*Injection Volume:*	**5000.0**
Vial Number:	**11**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 11:42**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	5.69	Iodide	n.a.	1.0223		0.09742	100.00
Total:				1.0223	0.000	0.097	100.00

18 CCB

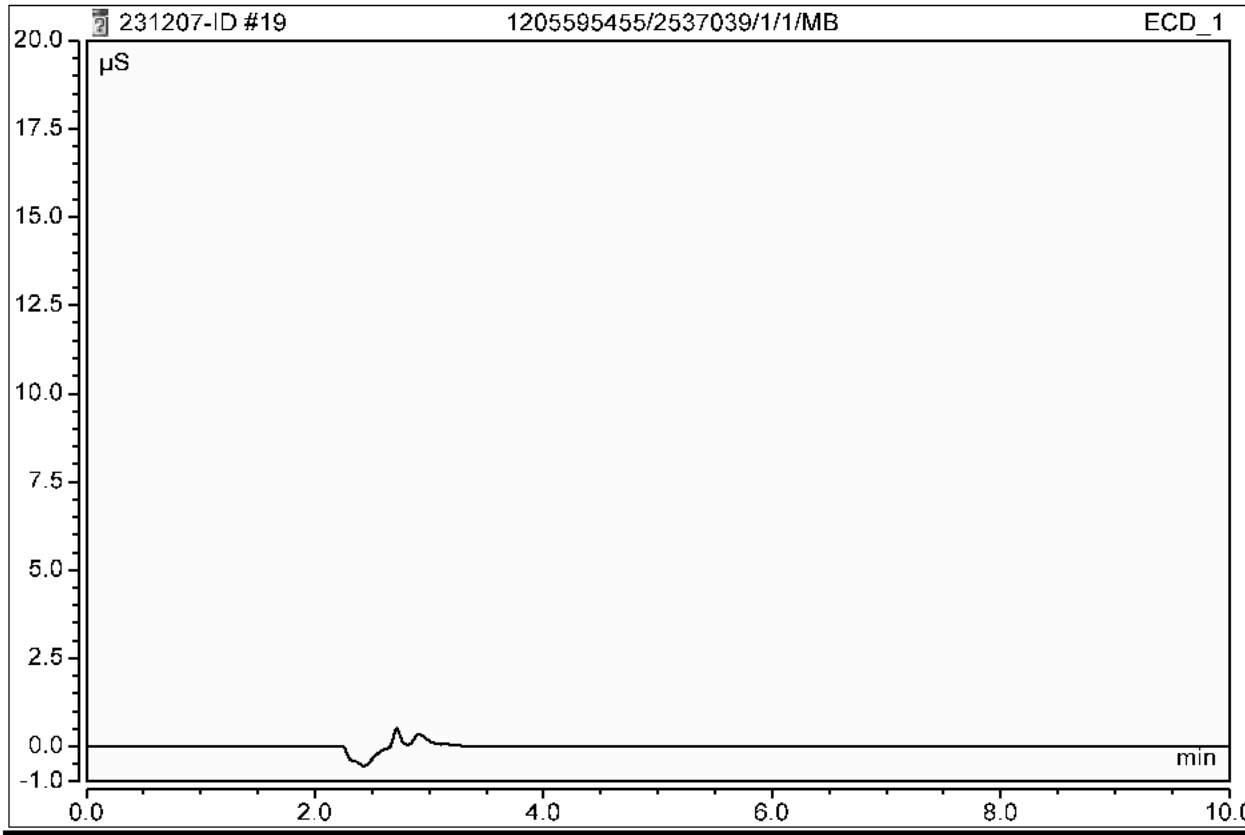
Sample Name:	**CCB**	*Injection Volume:*	**5000.0**
Vial Number:	**12**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 11:55**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

19 1205595455/2537039/1/1/MB

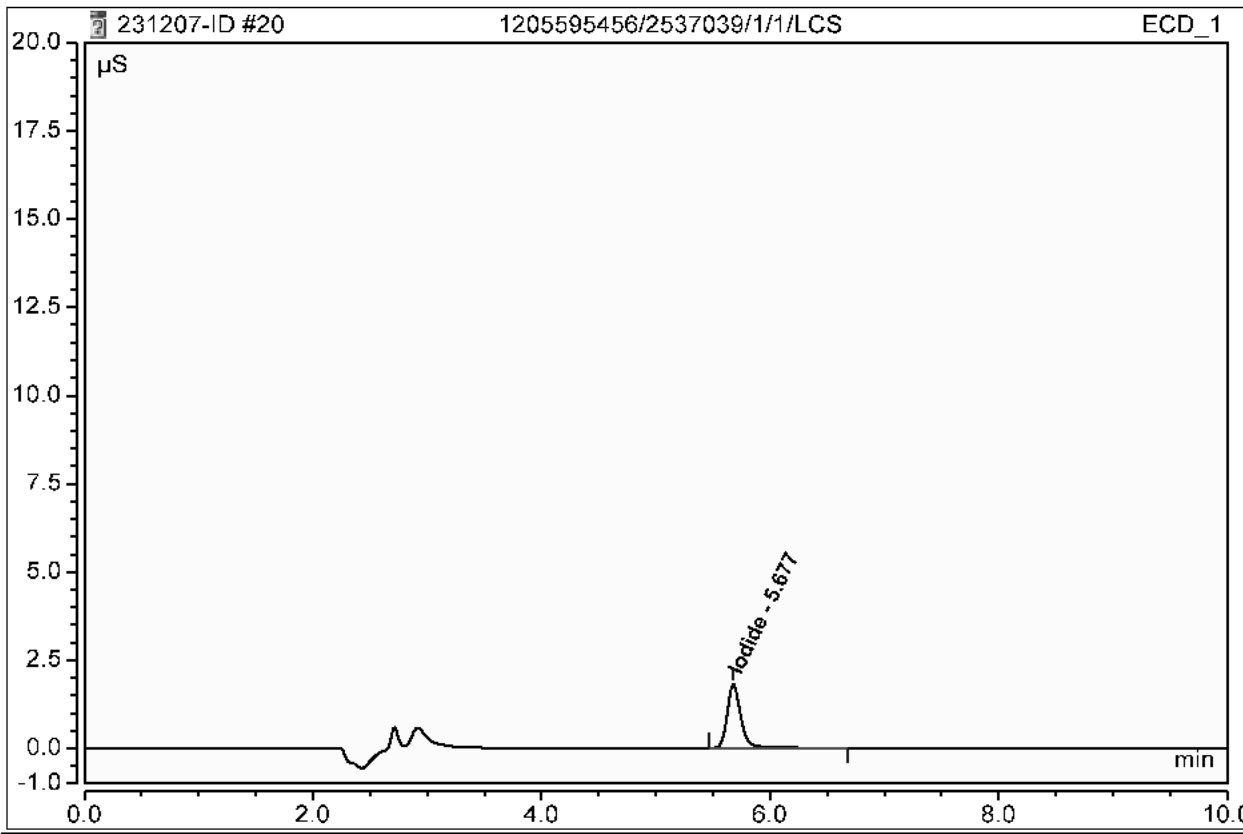
Sample Name:	**1205595455/2537039/1/1/MB**	*Injection Volume:*	**5000.0**
Vial Number:	**13**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 15:39**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

20 1205595456/2537039/1/1/LCS

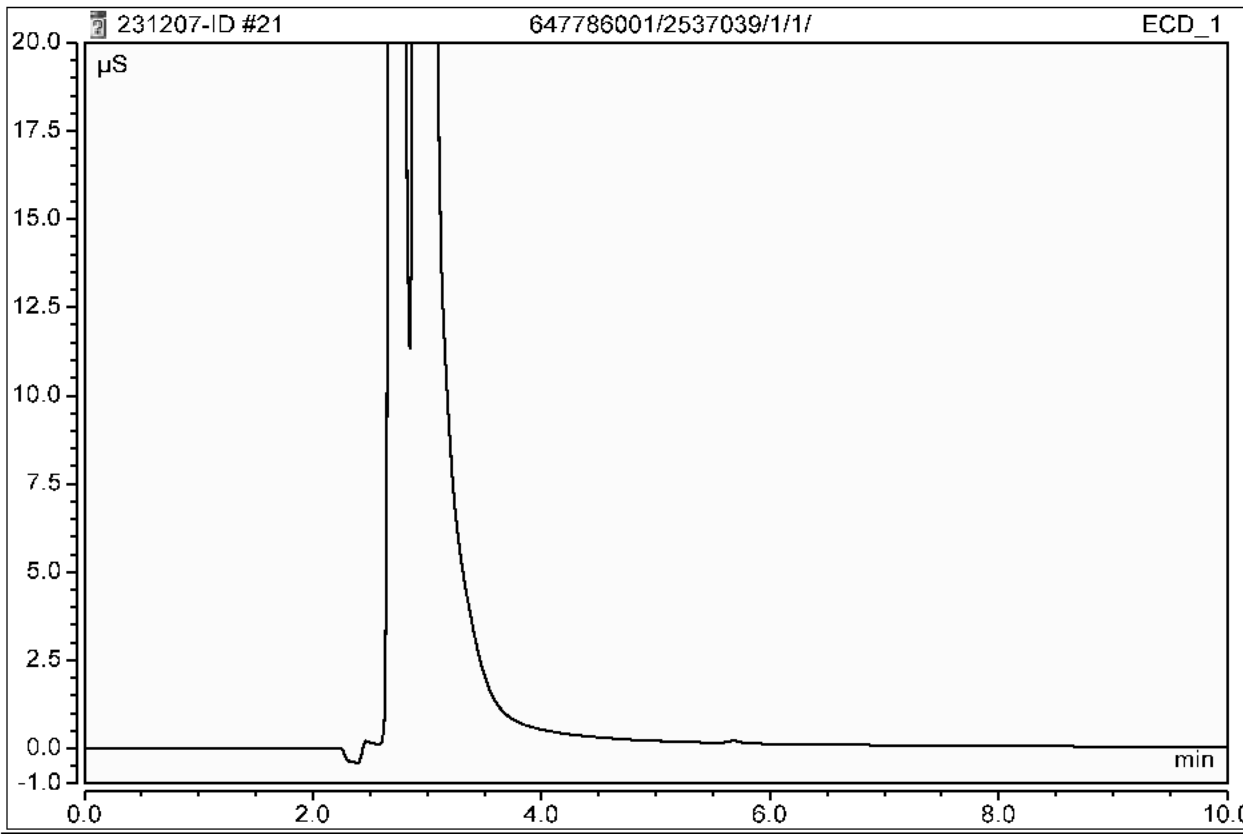
Sample Name:	**1205595456/2537039/1/1/LCS**	*Injection Volume:*	**5000.0**
Vial Number:	**14**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 15:51**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	5.68	Iodide	n.a.	2.4633		0.25253	100.00
Total:				2.4633	0.000	0.253	100.00

21 647786001/2537039/1/1/

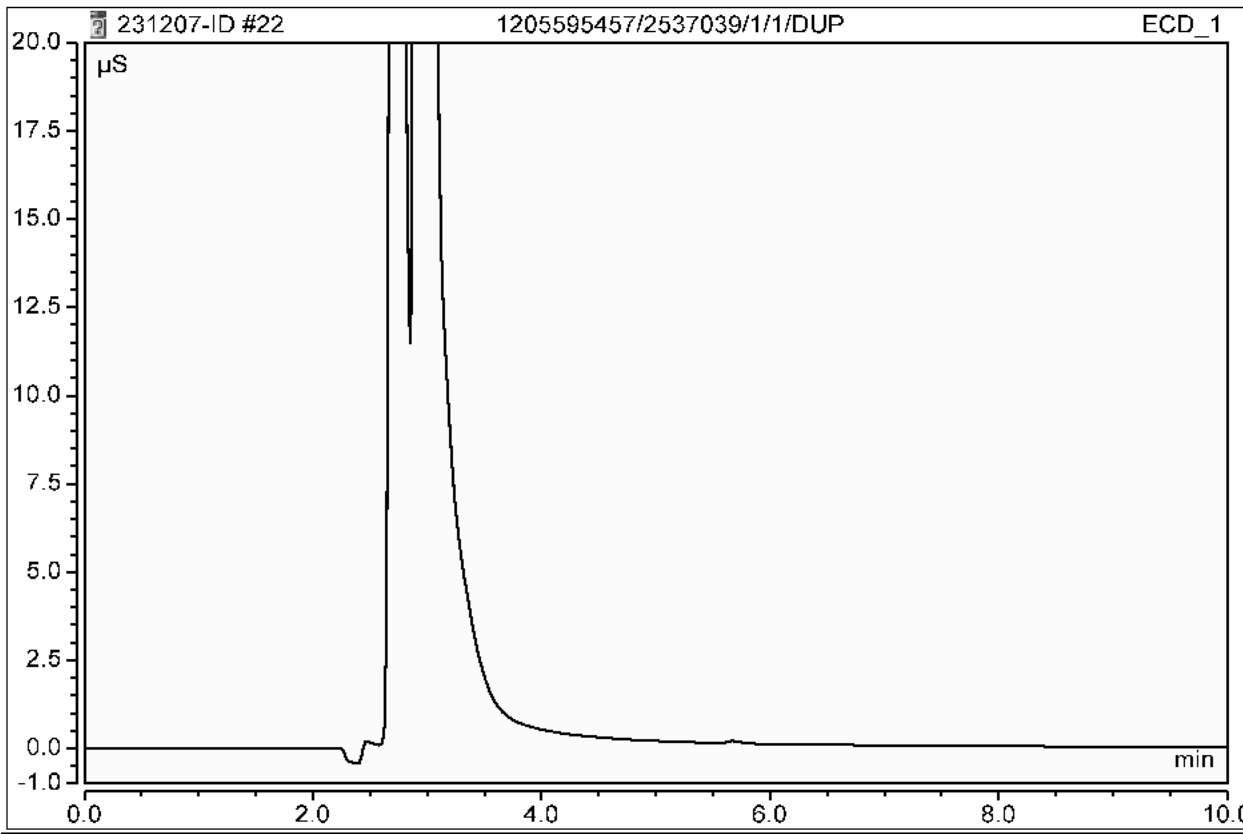
Sample Name:	**647786001/2537039/1/1/**	*Injection Volume:*	**5000.0**
Vial Number:	**15**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 16:04**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

22 1205595457/2537039/1/1/DUP

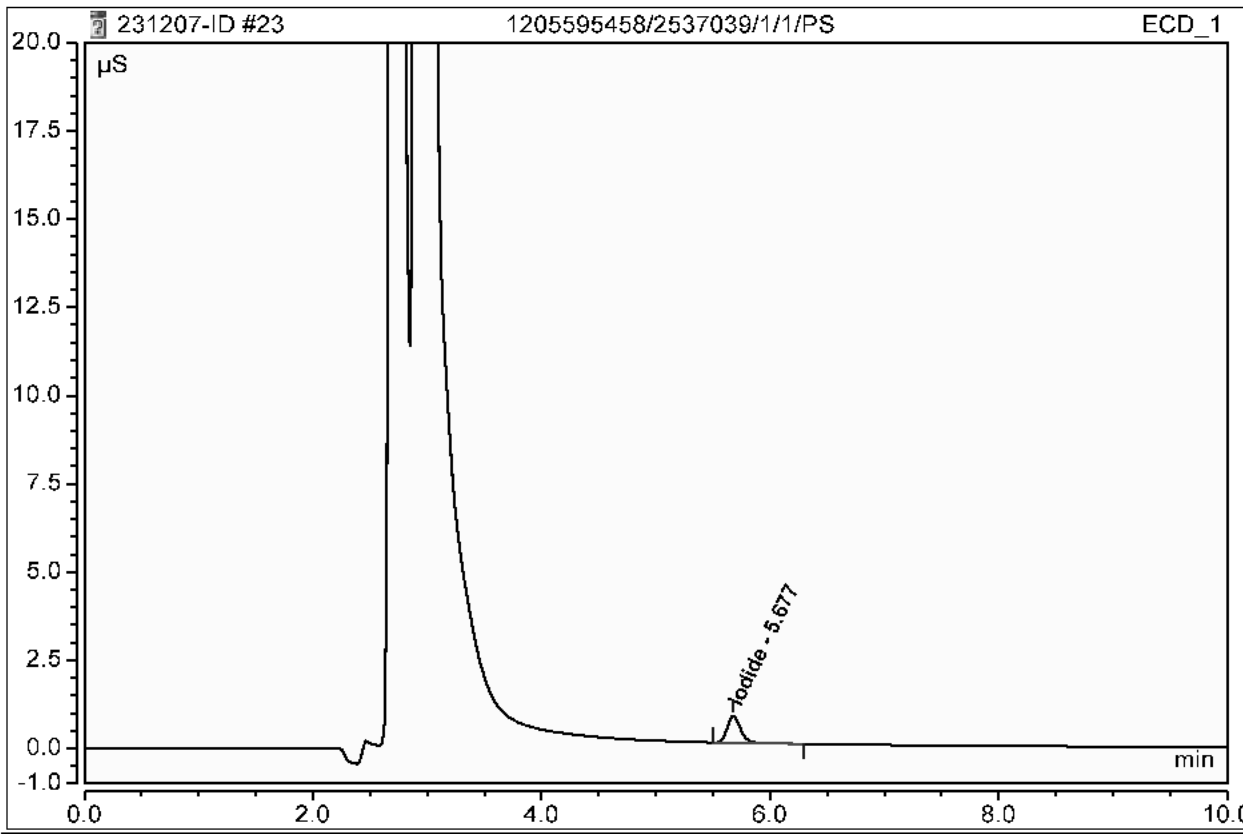
Sample Name:	**1205595457/2537039/1/1/DUP**	*Injection Volume:*	**5000.0**
Vial Number:	**16**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 16:17**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

23 1205595458/2537039/1/1/PS

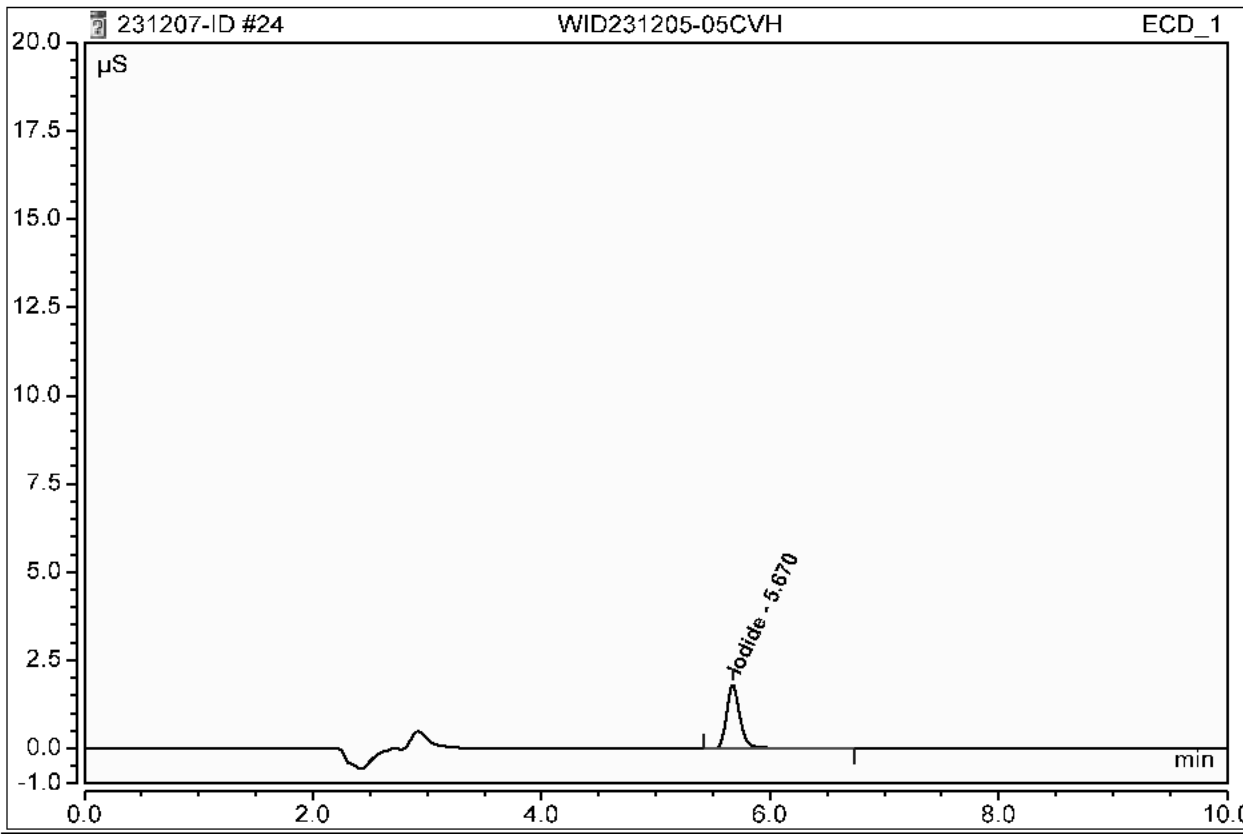
Sample Name:	**1205595458/2537039/1/1/PS**	*Injection Volume:*	**5000.0**
Vial Number:	**17**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 16:30**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	5.68	Iodide	n.a.	1.1032		0.10613	100.00
Total:				1.1032	0.000	0.106	100.00

24 WID231205-05CVH

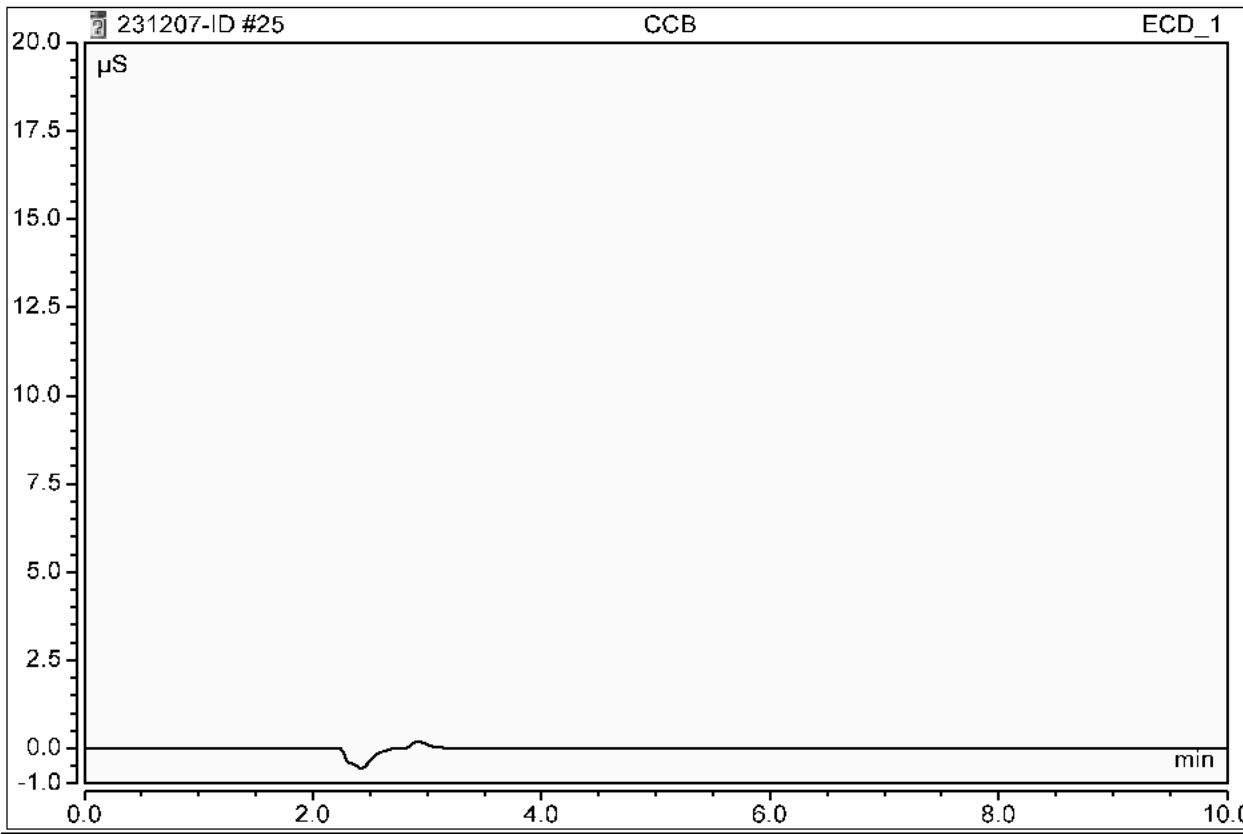
Sample Name:	**WID231205-05CVH**	*Injection Volume:*	**5000.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 16:43**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	5.67	Iodide	n.a.	2.4769		0.25400	100.00
Total:				2.4769	0.000	0.254	100.00

25 CCB

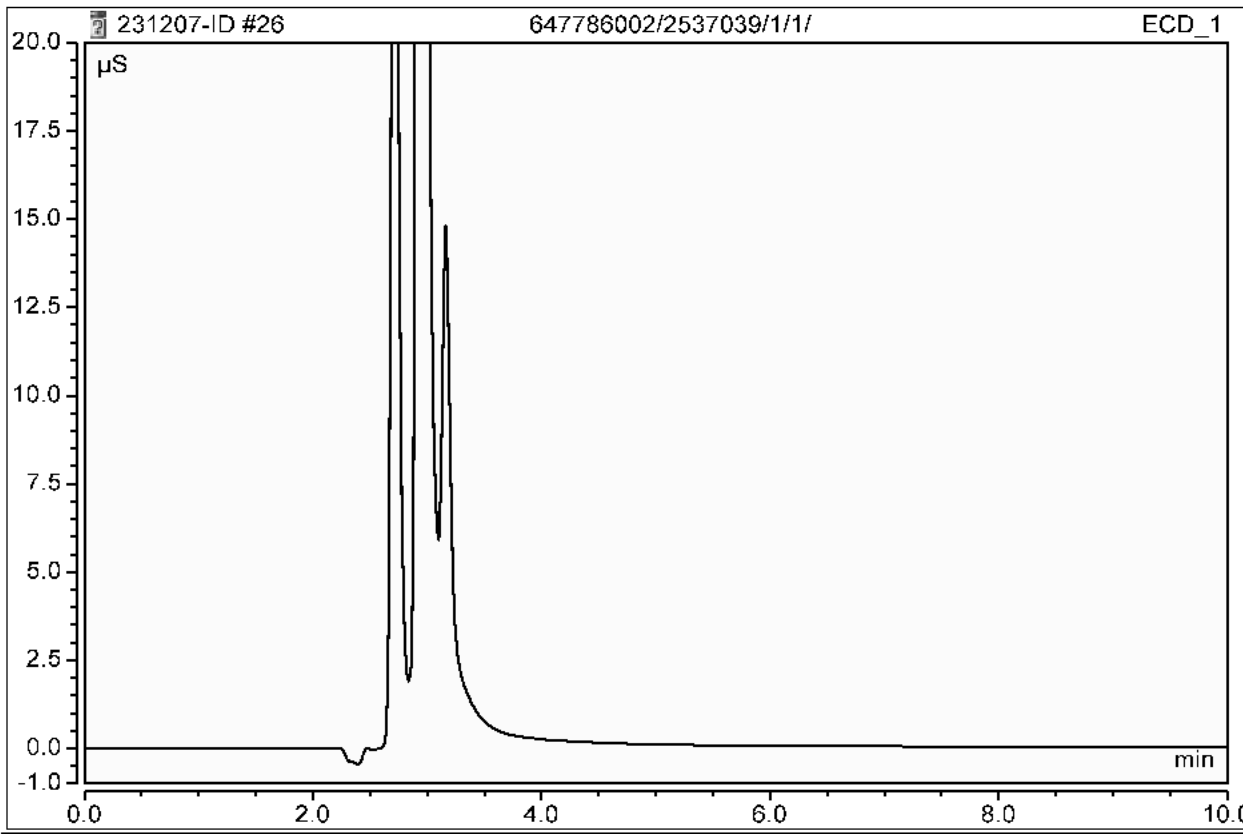
Sample Name:	**CCB**	*Injection Volume:*	**5000.0**
Vial Number:	**19**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 16:56**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

26 647786002/2537039/1/1/

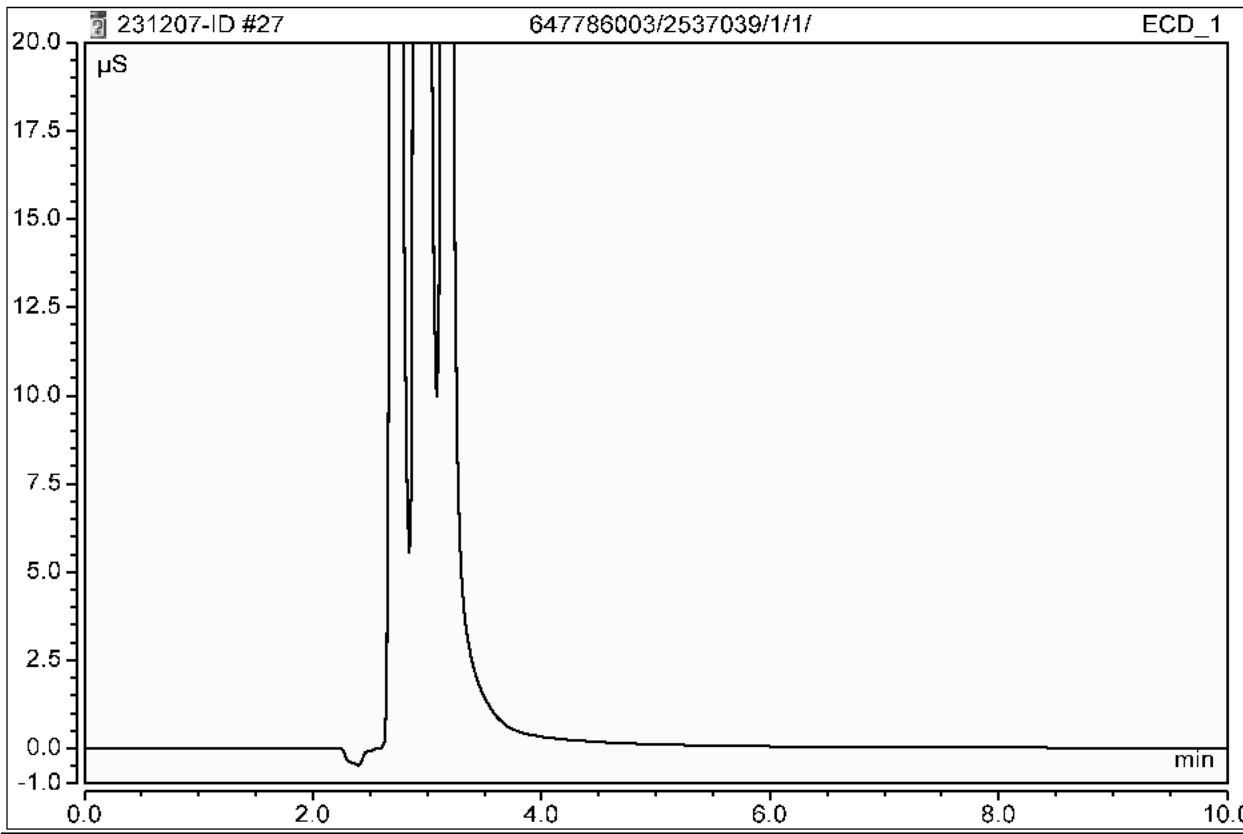
Sample Name:	**647786002/2537039/1/1/**	*Injection Volume:*	**5000.0**
Vial Number:	**20**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 17:09**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

27 647786003/2537039/1/1/

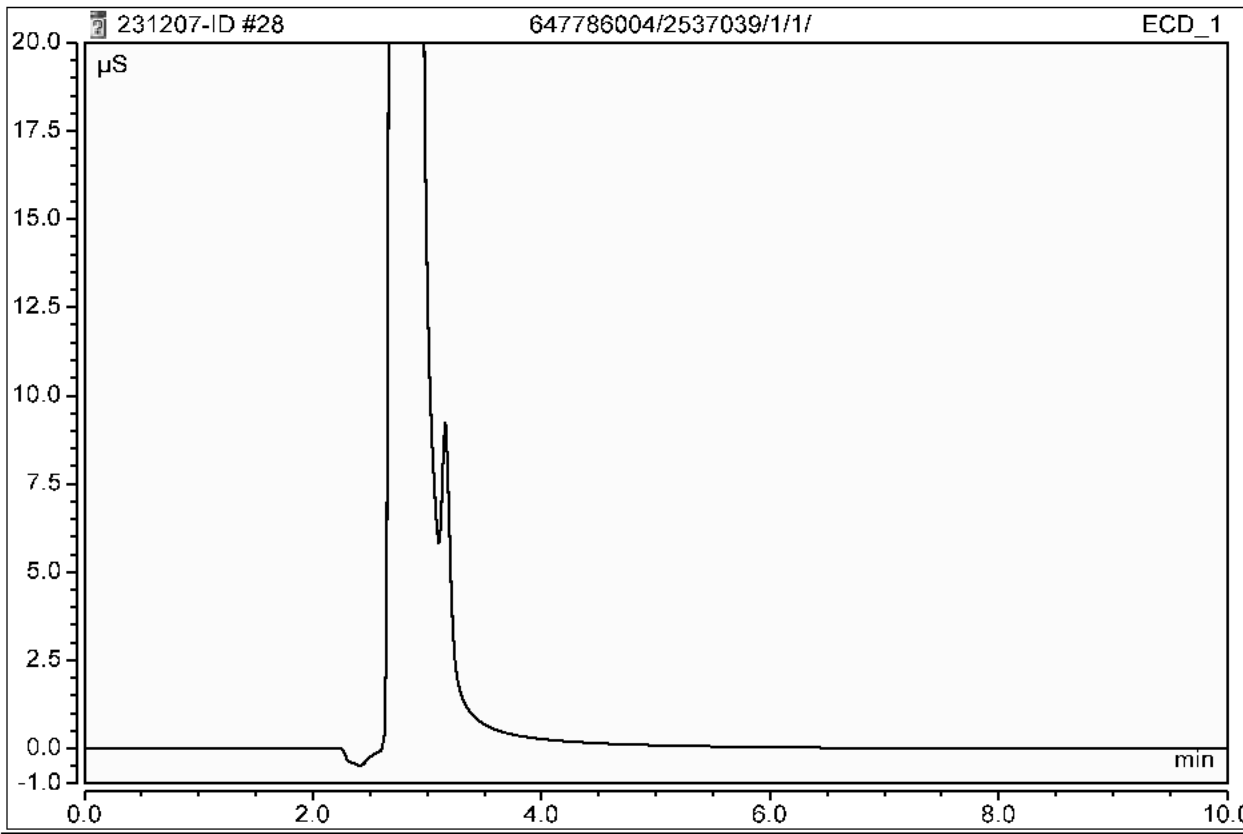
Sample Name:	**647786003/2537039/1/1/**	*Injection Volume:*	**5000.0**
Vial Number:	**21**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 17:21**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

28 647786004/2537039/1/1/

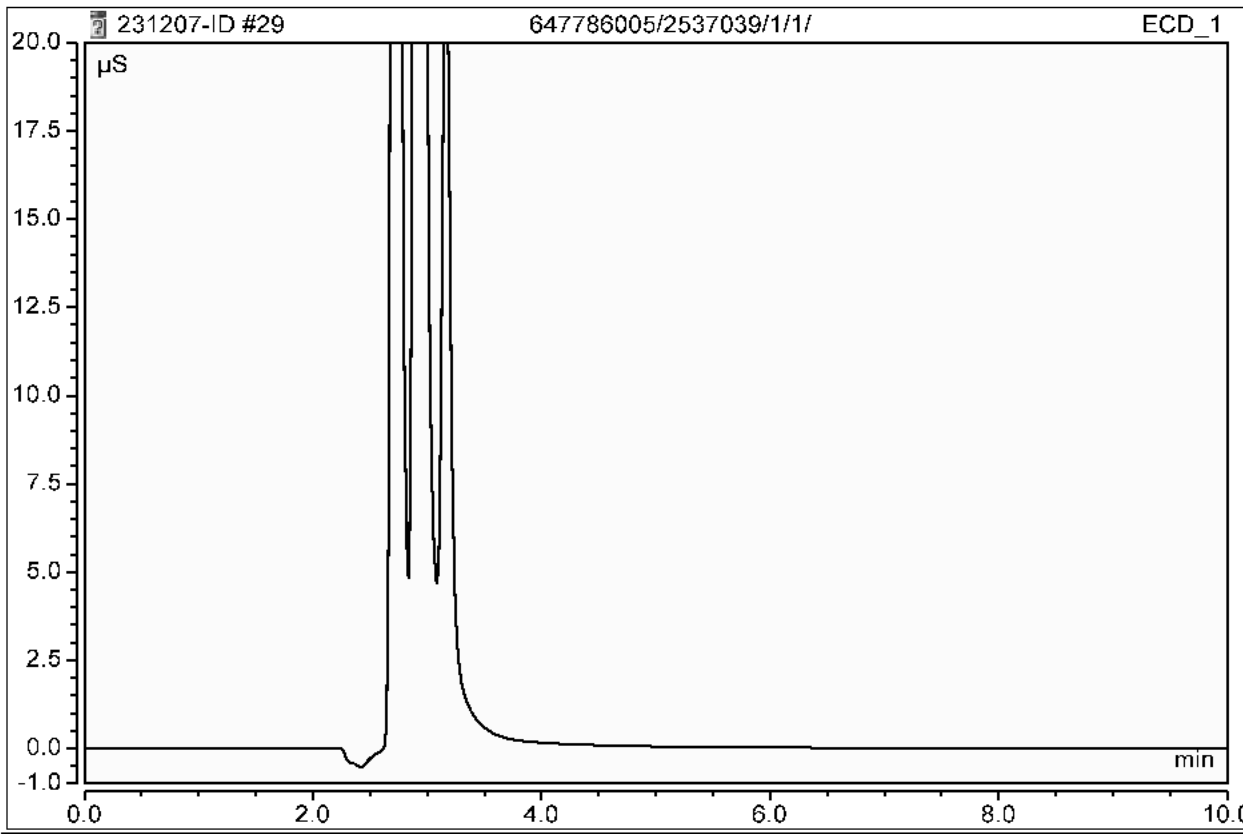
Sample Name:	**647786004/2537039/1/1/**	*Injection Volume:*	**5000.0**
Vial Number:	**22**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 17:34**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

29 647786005/2537039/1/1/

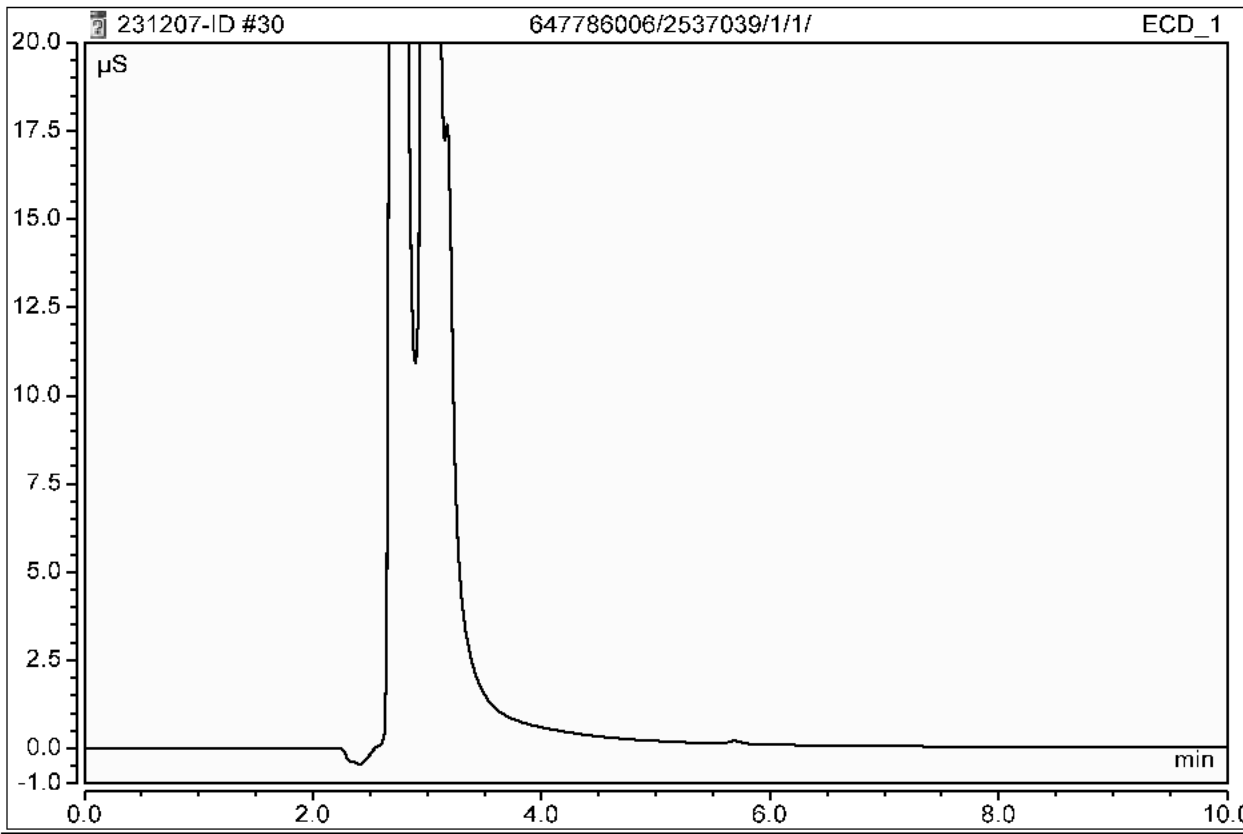
Sample Name:	**647786005/2537039/1/1/**	*Injection Volume:*	**5000.0**
Vial Number:	**23**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 17:47**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

30 647786006/2537039/1/1/

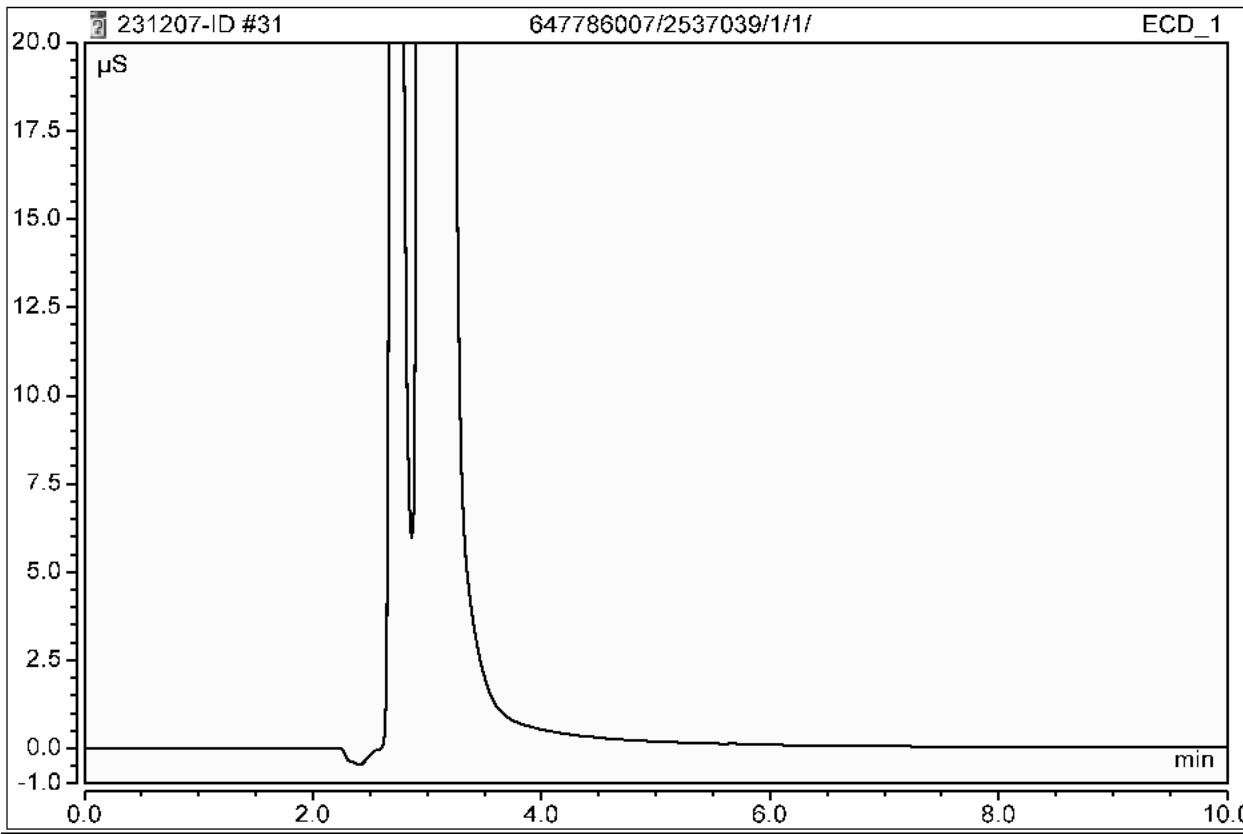
Sample Name:	**647786006/2537039/1/1/**	*Injection Volume:*	**5000.0**
Vial Number:	**24**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 18:00**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

31 647786007/2537039/1/1/

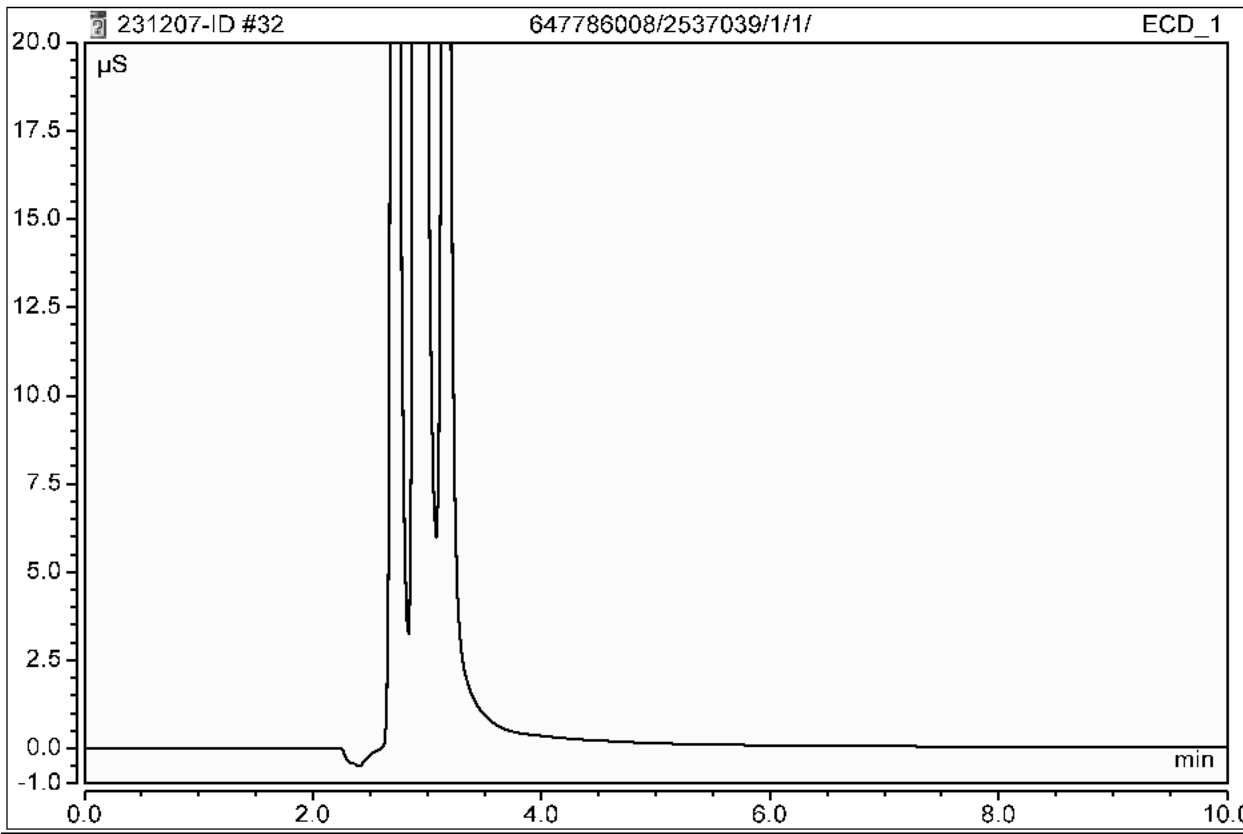
Sample Name:	**647786007/2537039/1/1/**	*Injection Volume:*	**5000.0**
Vial Number:	**25**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 18:13**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

32 647786008/2537039/1/1/

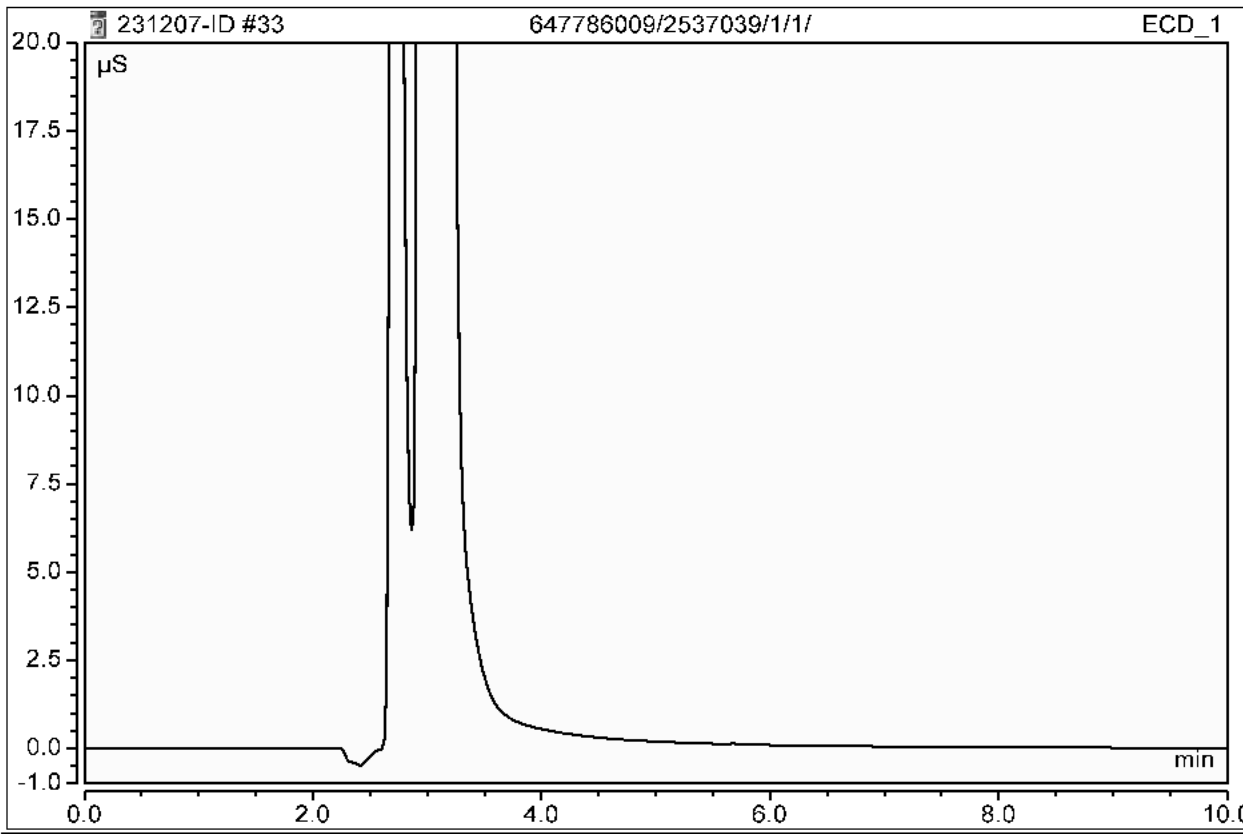
Sample Name:	**647786008/2537039/1/1/**	*Injection Volume:*	**5000.0**
Vial Number:	**26**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 18:26**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

33 647786009/2537039/1/1/

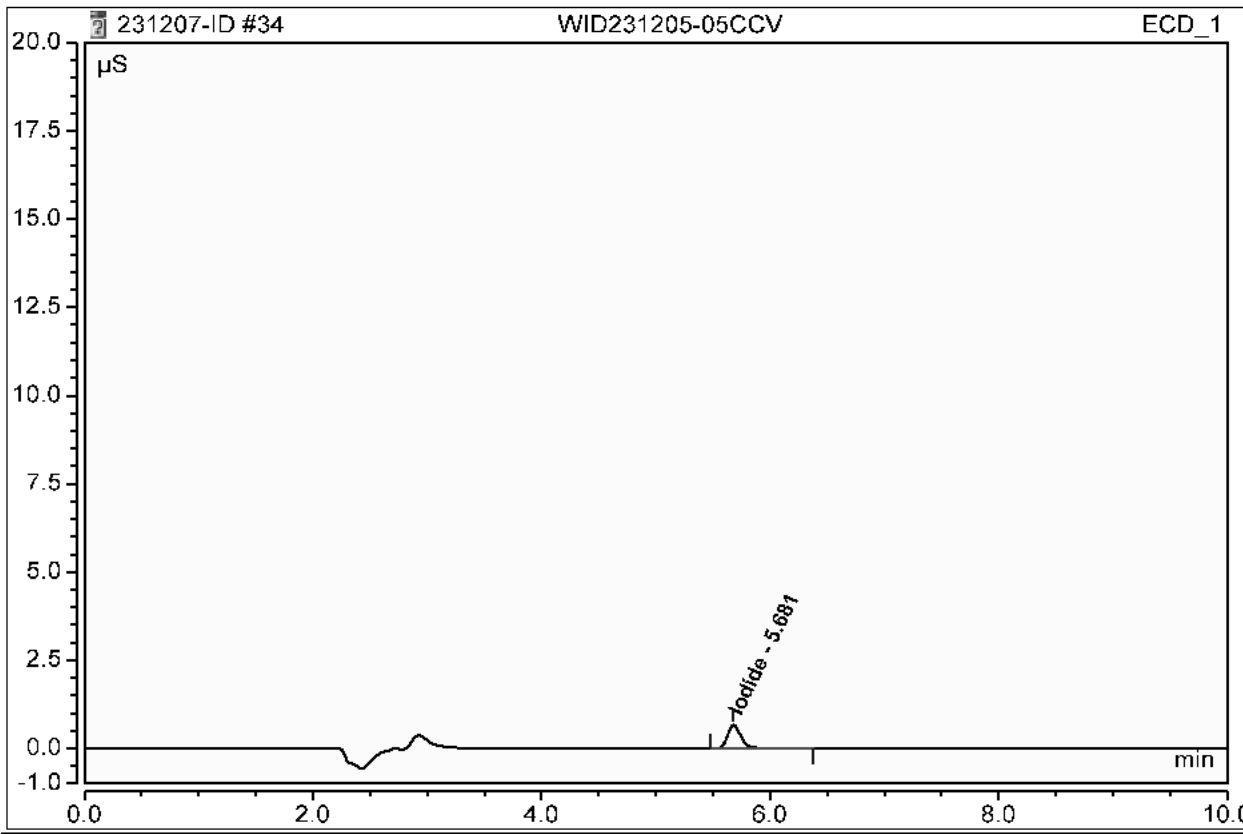
Sample Name:	**647786009/2537039/1/1/**	*Injection Volume:*	**5000.0**
Vial Number:	**27**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 18:39**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

34 WID231205-05CCV

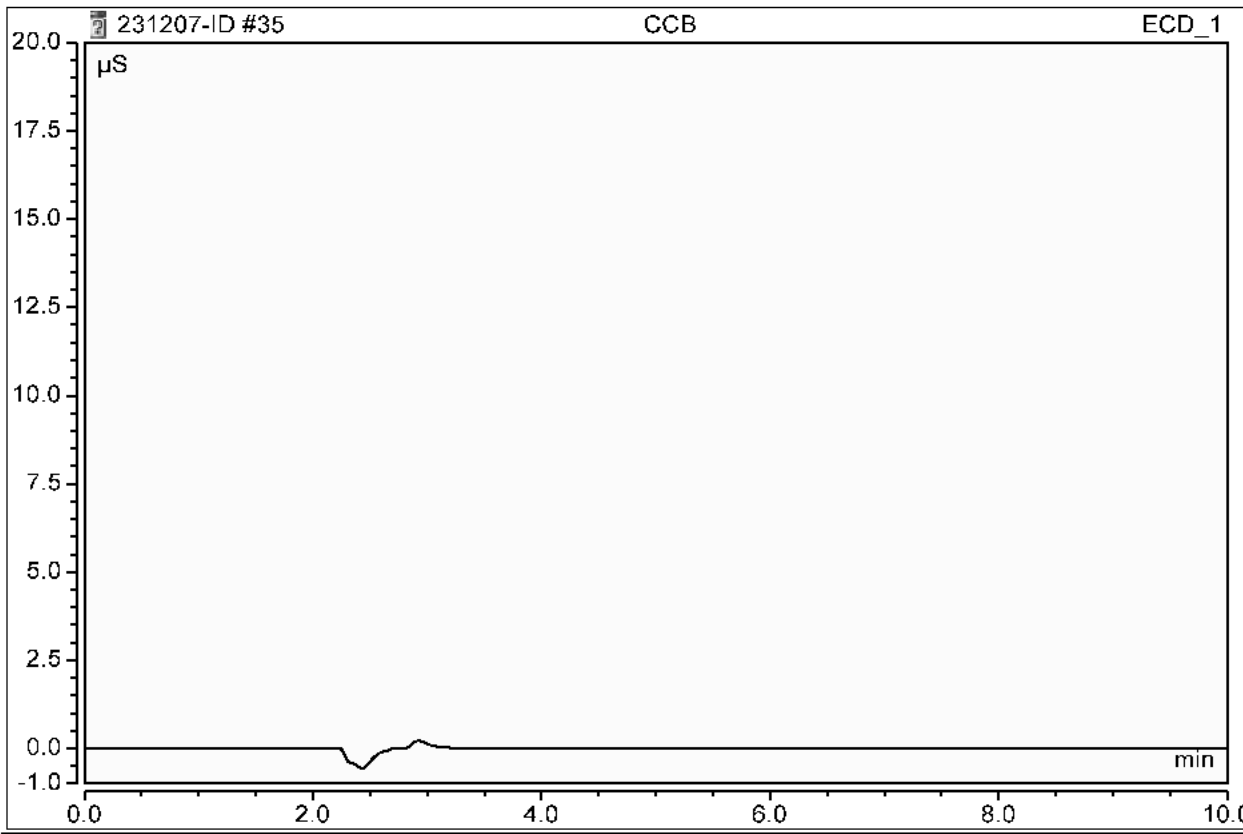
Sample Name:	**WID231205-05CCV**	*Injection Volume:*	**5000.0**
Vial Number:	**28**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 18:51**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	5.68	Iodide	n.a.	1.0129		0.09641	100.00
Total:				1.0129	0.000	0.096	100.00

35 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5000.0**
Vial Number:	**29**	*Channel:*	**ECD_1**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Control Program:	**AS16_ID**	*Sample Weight:*	**1.0000**
Quantif. Method:	**231019ID**	*Sample Amount:*	**1.0000**
Recording Time:	**12/7/2023 19:04**	Analyst:	**TXT1**
Run Time (min):	**10.00**	Column:	**AS23-001528;GLGCE086;300;9056**



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Iodide	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00